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COASTAL ICE AND SEDIMENT SAMPLES;
SHOREFACE AND ICE PROFILES
(SOUTHERN LAKE MICHIGAN, FEBRUARY, DECEMBER 1989,
& FEBRUARY, APRIL 1990)

by
Michael McCormick¹
Eran C. Hayden¹
William S. Weber¹
Peter W. Barnes¹
Erk Reimnitz¹
Edward W. Kempema²

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¹Menlo Park, CA 94025

²Univ. Washington, Seattle WA 98195

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NARRATIVE DATA REPORT

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INTRODUCTION AND BACKGROUND

As part of an effort to understand the coastal erosional processes affecting the coast of Southern Lake Michigan during high lake levels (Barnes, 1990), studies were undertaken to assess the role of ice as an agent of sediment transport and coastal modification. Many Great Lake studies have focused on the nearshore ice regime and its qualitative influence on the lake bed and shoreline (Zumberge and Wilson, 1953; Bajorunas and Duane, 1967; Kivisild, 1970; Bryan and Marcus, 1972; Marsh et al., 1972; O'Hara and Ayers, 1972; Davis, 1973; Seibel et al., 1976; Evenson and Cohen, 1979; Seibel, 1986; Miner, 1989). However, quantitatively studies that address the influence of ice and its sediment content and gauge that influence against shoreline changes due to wave and current erosion are notably absent. This report provides data towards this later purpose.

Given that lake ice is present along the shoreline for two to four months per year (Assel et al., 1983), measurable effects attributable to the presence of ice during periods of high wave energy associated with winter storms were anticipated. This report presents data on the relationship of the surficial ice profile to the beach and nearshore profile at several locations (Appendices 1-C, 2-D) and provides information on the sediment content and character of the coastal ice around Southern Lake Michigan (Appendices 1-A, 1-B, 2-A, 2-B, 2-C). This is meant to be a data report with documentation to be used in future studies of coastal ice processes in the Great Lakes. No interpretations are provided or implied. The profile data are available from the authors upon receipt of two DOS-formatted, High Density, 5.25 inch diskettes.

TERMINOLOGY

We use the terminology from Kivisild (1970) and Seibel (1986), which parallels that being used for coastal ice in the arctic-marine environment (Rex, 1964; Dionne and Carlisle, 1972; McCann and Carlisle, 1972; Kovacs and Mellor, 1974; Short and Wiseman, 1974; Reimnitz et al., 1978). The "ice foot" terminology with many modifiers, used by (Zumberge and Wilson, 1953; Evenson and Cohen, 1979; Miner, 1989) is avoided except to use the term as suggested by Zumberge and Wilson (1953) for the linear ridge of ice formed on the beach at the shoreline, but not for their extension of the term to ridges offshore. We feel this terminology provides uniformity with common usage on arctic beaches (Wright and Priestley, 1922; U.S. Navy, 1952; Kovacs and Mellor, 1974) and avoids the extensive use of the repetitive modifiers. See the Glossary of Terms for a more complete listing of ice terminology.

We use the term fast ice (U.S. Navy, 1952, Kovacs and Mellor, 1974) to identify ice attached or "fast" to the shore and we introduce the phrase nearshore ice complex (NIC) to identify the unique association of ice features we observed in Southern Lake Michigan.

NEARSHORE ICE COMPLEX (NIC)

The ice complex we observed at the coast follows that reported by Seibel (1986) (Figures 1, 2). The NIC was similar at all our study sites although portions may have been absent at some locations while better developed at others. The NIC was also observed to change with time. In February, 1989, the NIC was most completely developed along the southeastern shore of the lake and least developed along the western shore. In February, 1990, warm weather required that we travel north to Wisconsin to study the NIC.

At the shoreline, where the subaerial beach was exposed to freezing temperatures and wave swash, an ice foot was built of sediment and ice. The ice foot formed to a height of 1m or more (Figure 3). The ice foot usually extended several meters shoreward from the shoreline and usually contained sediment. Immediately lakeward of the ice foot were a series of one or more grounded ice

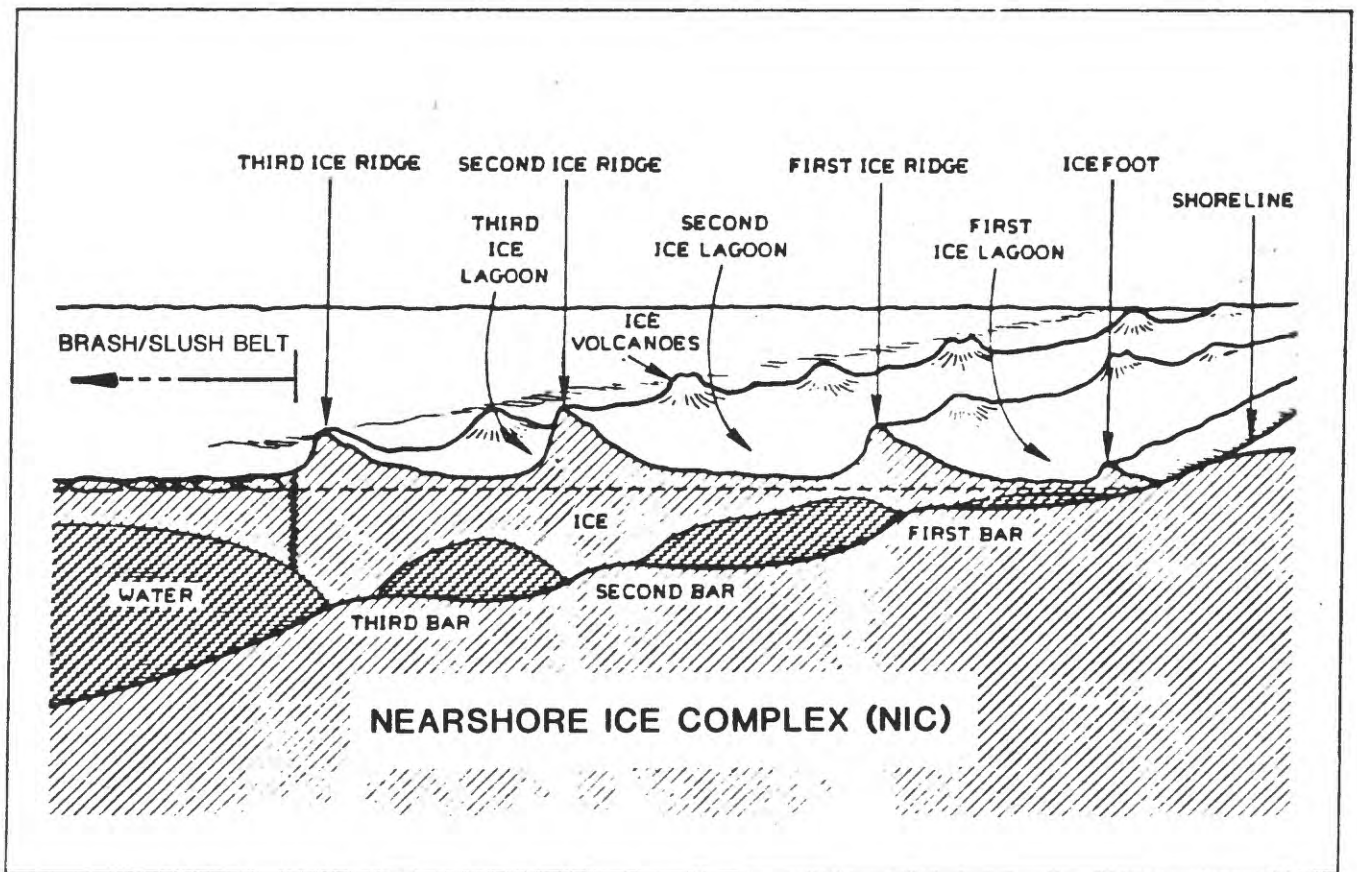


Figure 1. Schematic diagram of ice zonation (modified from Seibel, 1986).



Figure 2. Aerial photo of ice zonation showing: a) Ice foot, b) Ice lagoon, c) Ice ridges, and d) Adjacent slush/brash belt. From the ice foot to the inner edge of the brash belt at (d) is 100 meters.



Figure 3. Ice foot at shoreline on Lake Michigan in northern Illinois.

ridges often, but not always, separated by ice-filled lagoons (Figure 3, 4). The surface of the ice in the lagoons was rough with relief of 10 to 30 cm depending on the size of ice blocks crowded here during formation. The water depths in most ice lagoons studied was less than a meter, and commonly the ice extended nearly to the lake bed.

The grounded ice ridges were shore-parallel and were composed of adjoining ice cones (volcanos) with steep, sometimes vertical, lakeward slopes and more gentle shoreward slopes (Figures 1, 4, 5). The ridges were composed of millimeter sized ice granules, more-or-less frozen together. In general, the consistency of the NIC was that of hard snow which was very rapidly augered with a power auger or a spiked pole. The portions of these ridges below lake level were water saturated and poorly indurated or lacked any solidification at all. Ridge heights were commonly about a meter, but several reached heights of five to seven meters. The ridges were restricted to within 25m of the shore along the western and southern shores of Wisconsin, Illinois and Indiana, but occurred out to about 100m along the southeastern shore in Michigan.

Lakeward of the ridges, two ice regimes were observed: 1) A congealed frozen mass of pancakes, frozen slush and rafted brash ice up to 50 cm thick, and; 2) uncongealed brash and slush which was up to 60cm thick adjacent to the vertical face of the ice ridges (Figure 6) but thinning lakeward. The uncongealed material was readily driven against the ridges in a seaway, supplying ice and sediments to the ridges through the ice cone (volcano) conduits.

METHODS

BEACH PROFILES

1989 -- Beach and ice profiles were surveyed at nine locations (Figure 7), referenced to previously established profiles. Profiles were obtained using an integrated electronic distance measuring station providing accuracies of better than 0.10 m horizontally and vertically from the reference marks in each survey. Profiles were referenced vertically to lake level and to temporary bench marks established by previous surveys, or to national bench marks. In 1989, our measured lake levels were referenced and interpolated to lake level elevations observed at Milwaukee, Calumet Harbor, Illinois, and Holland, Michigan, during the time of the survey.

The 1989 survey data, with the exception of the December, Gillson Beach profiles, are represented using a Northing/Easting format in which the grid was oriented to true North using a Brunton compass. Further information on this grid referencing may be found in the introductions to the individual profiles. In some cases the reference marker is assigned the coordinates 0.000 Northing, 0.000 Easting. In others the coordinates are 1000.0 Northing, 1000.0 Easting. The latter was used in places where stadia points were surveyed shoreward of the reference marker. Negative numbers would have resulted if the 0.000/0.000 system had been used in these situations. The methods used to survey the 1989 December Gillson data are the same as the 1990 profiles and can be found described in later in this report.

1990 -- Repetitive profiles of beach and ice morphology were studied at three locations along the western shore of Lake Michigan. From north to south these are: Point Beach State Forest (north of Two Rivers, Wisconsin), Kohler-Andrae State Park (south of Sheboygan, Wisconsin), and Gillson Beach (at Wilmette, Illinois) (Figure 8). At Point Beach and Kohler- Andrae, profile lines were repeated on different days in order to study short-term profile variation as the coastal ice regime varied. At neither location were the profiles tied into recoverable bench marks. The 1990 Gillson Beach surveys (different locale than February, 1989) were tied to Chicago City Water Company Bench Marks M-26 and M-27. Bench Mark M-26 is located on the southern jetty of the harbor entrance across the harbor from the Coast Guard Building at Gillson Beach. M-27 is located on the northern jetty of the harbor entrance northeast of the Coast Guard Building. The elevation of these Bench marks is related to City of Chicago Datum. The data in this report have been corrected to bring the data up to Low Water Datum (175.81m) by adding 0.453m to the City of Chicago Datum.

The surveys were run using a leveled, acclimatized electronic distance meter (EDM). The EDM uses horizontal and vertical angle measurements, and infra-red ranging to provide precise range, azimuth, and elevation information of a calibrated, rod-mounted prism. The rod and prism were moved



Figure 4. Aerial photo of 100 meter wide Nearshore Ice Complex with coast-parallel ice ridges separated by ice lagoons. Adjacent consolidated brash ice may be seen lakeward of outer ridge.



Figure 5. Ice volcano/cone in 1.5 meters of water in southern Lake Michigan (February, 1989).



Figure 6. Boundary between outer ice ridge and the rough surface of adjacent ice composed of consolidated floating brash ice.

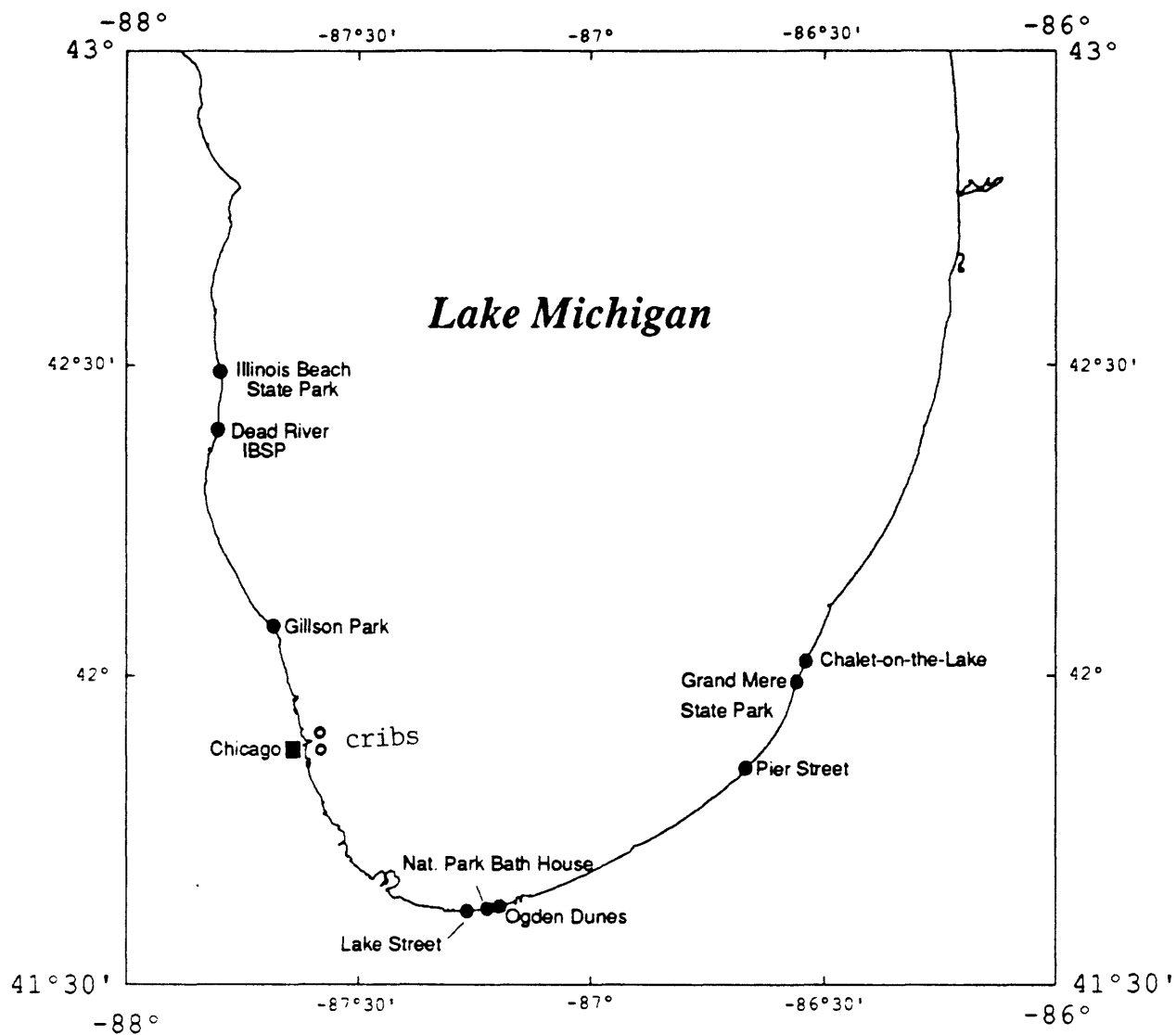


Figure 7. Locality map of February 1989 profile and sample locations.

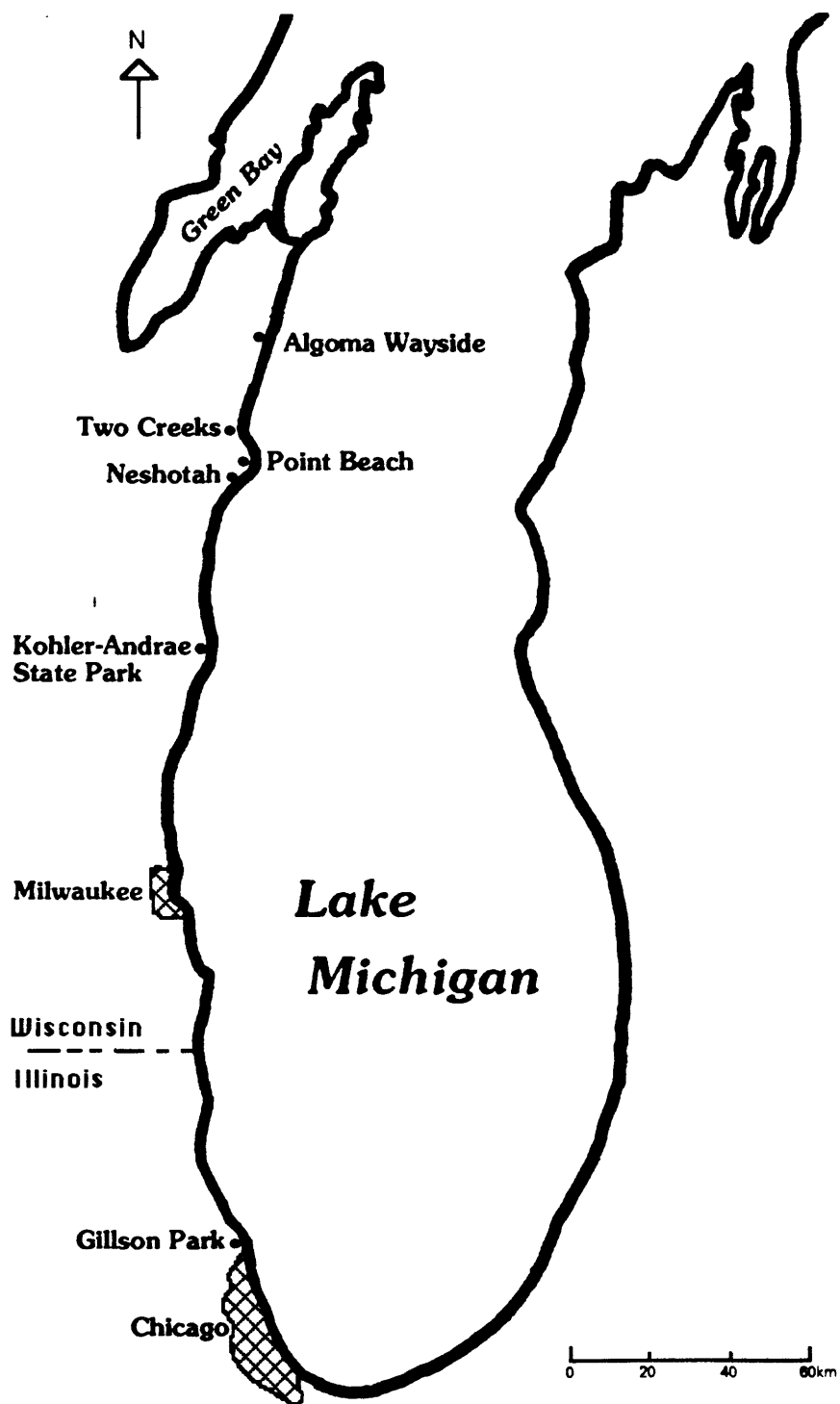


Figure 8. Locality map of December, 1989, and 1990 profile and sample locations.

along the profiles at about 3m intervals from the back of the beach, offshore to water depths of about 2m. Additional offshore bathymetric data were collected using a fathometer scaled to measure depths of 0 to 30 feet, the most expanded scale available. The rod and fathometer surveys were overlapped in water depths of about one meter. Navigated positions (range and bearing) of the fathometer were attempted every 30 seconds using the EDM. Timing marks were placed on the fathometer trace using watches synchronized with the navigation. This allowed the bathymetry and the navigation data to be joined. Difficulty in tracking the boat with the EDM sometimes dictated sightings at other than 30 second intervals.

Range, bearing and elevation data were then transferred from the EDM to a MS-DOS personal computer (PC) via an electronic storage device where they were edited and erroneous points deleted. The fathometer record was digitized creating a data set with points generated every 0.1mm along the fathometer trace which corresponds to a new point every one to three meters horizontally depending on boat speed. Data were subsequently run through several public domain programs (J. Dingler, USGS-Menlo Park) to facilitate data reduction, interpolation, and merging.

One program translates the data collected from the EDM into a X, Y, Z Cartesian coordinate system common for all the profiles at each site, with the point $x=0$, $y=0$ being an arbitrary "rear" reference marker. The coordinate system is orientated by choosing a front reference point which is on a shore-normal line with the rear reference mark. This shore-normal line becomes the X-axis of the grid. This shore-normal line which contains the two reference markers is also termed the Main Line (ML). The orientation of this line was then determined from Brunton compass readings or from a topographic map. More information on the grid orientations may be found in the introductions to the individual surveys. X-values lakeward of the rear reference marker are given negative numbers, and reflect distance in meters from this reference point. At each 1990 site, supplemental profiles were surveyed north and south of the ML, and referenced to the ML coordinate system. Y-values reflect the offset of the supplemental line from the ML with negative Y-values for profiles north of the ML on the beaches surveyed in 1990. Elevations (Z-values) are the height above/below the Low Water Datum, 1955 (175.81m) at Gillson Beach. Local lake level at the time of the survey is used as 0.0m elevation at Point Beach State Forest and Kohler- Andrae State Park. Fathometer data were referenced to lake level at the time of the survey in all surveys.

A second program was used to interpolate the digitized bathymetric profile data points between the navigated data points collected by the EDM using times common between the two data sets. Lastly, a program compares the elevation differences between the overlapping rod-measured, onshore points (referenced to a bench mark elevation at Gillson Beach) and the fathometer measured offshore points (referenced to local lake level) and "merges" the offshore data set onto the onshore data. The use of lake level for the reference elevation at Point Beach and Andrea-Kohler for both the fathometer and rod surveys resulted in negligible elevation differences in areas of data overlap.

The computer manipulation results in profiles referenced to lake level at Kohler-Andrae State Park and Point Beach State Forest, and to a surveyed bench mark at Gillson Beach. In order to determine the depth of lake bed below water level at Gillson Beach, as opposed to elevation in relation to Low Water Datum, the "average offset" value must be subtracted from the offshore data points. The offshore data points may be recognized by their "time" value.

SAMPLE ANALYSIS

Sediment and ice samples were collected in order to determine grain size distribution, and sediment content and ice density. These samples were taken from a variety of locations in the NIC and on the beach. Specific locals and descriptions of the samples may be found in the appendices.

While in the field ice samples were melted in a microwave oven. This may have resulted in the loss of negligible amounts of water vapor affecting sediment density calculations. The melt water was then decanted after most of the sediment had settled, as a result, small amounts of silts and clays were lost in this procedure. In the laboratory samples were weighed to the nearest 0.01 gram after being thoroughly dried in an oven. Samples splits were prepared for use in Rapid Sediment Analyzer (RSA). Organic matter was oxidized by soaking the sample in five to ten milliliters of 30% hydrogen peroxide and 200ml of distilled water overnight, after which, the sample was lightly boiled for two hours to

remove the peroxide. Soluble salts were removed by washing and decanting twice with distilled water. Small amounts of silts and clays were lost during this process. Dry sieving was used to separate grains greater than two millimeters in diameter (<-1 phi).

The RSA used is modified after Gibbs (1974). The RSA tubes are water-filled, two meter tall PVC tubes through which sediment grains fall at different rates dependent on size and density. An approximately half gram split of the sediment to be measured is released into the water at the top of the tube. Grains accumulate at the bottom on a "scale" (a tray attached to a strain gauge). As the sediment accumulates a recorder creates a time vs. weight (strain) printout. A proportional scale (Gerber Scale) is set to 100% for the total weight (strain) at the end of RSA run, and the cumulative percentage for each grain size is determined from an calibrated overlay of the printout. The results were then processed through a statistical package (USGS textural analysis program SDSZ).

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GLOSSARY OF TERMS

Many terms are modified from "A Functional Glossary of Ice Terminology" (U.S. Navy, 1952).

-Nearshore-ice complex (NIC): The coastal lake ice features which form nearshore during winter; including, but not limited to, the ice foot, ice ridge, ice lagoon, and the brash/slush belt.

Location Terms-

-Brash/slush belt: A floating band of varying width outside the ice foot or ridge composed of brash and slush.

-Ice cone (volcano): Cone shape pile of slush and brash built by wave eruption and overwash along an ice ridge exposed to breaking waves. Ice cones often coalesce to form the core of ice ridges.

-Ice foot: A class of fast ice consisting of ice formed along and attached to the shore, caused by the action of water level changes, waves and spray.

-Ice lagoon: An area of low ice relief between the ice foot and the ice ridge, and between ice ridges.

-Ice ridge: A grounded, shore-parallel, linear accumulation of ice often consisting of ice cones or volcanos. Several sub-parallel ridges may develop from successive freezing storm events.

-Shore: The point on the beach where the nearshore-ice complex begins.

-Shoreline: The boundary between the beach and fast ice.

Ice Description Terms-

-Anchor ice: Ice which forms on the lakebed, often incorporating sediment.

-Brash: Small solidified fragments of lake ice less than 2 meters across; often the wreckage of other forms of ice.

-"Dirty" ice: Used to refer to ice which includes sediment.

-Ice cake: A general term used in reference to flat fragments of ice (brash). The dimensions of a cake are not fixed.

-Pancake ice: Flat, circular, consolidated ice pans tens of centimeters in diameter with upturned or raised rims.

-Platelets: Small discs of ice; less than 5cm across.

-Slush: An accumulation of ice crystals which may or may not be slightly frozen together. Slush has no degree of hardness.

-"Slushy": Ice of another form (eg. brash) having some characteristics of slush.

APPENDIX 1-A- 1989 Ice and sediment sample notes

This appendix contains information on samples gathered during the Southern Lake Michigan field program in February, 1989.

Sampling Techniques and Terminology

Push Tube is a plastic core tube 30 or 100cm long (two sizes) by 7.9cm in inside diameter. After being pushed into the ice mass to be sampled the exposed end is tightly sealed for suction and either pulled out, or dug out by hand.

Sipre Corer obtains a core of ice 7.5cm in diameter and up to one meter in length. The coring device is driven by a gasoline motor.

Transient Layer Sampler is a vertical pole containing three 30cm by 7.9cm ID sampling tubes placed at 10, 44.4, and 84cm from the bottom and open at each end to allow the free flow of water and ice. A bottom activated trigger mechanism simultaneously seals the sample bottles.

Trap Sampler is a 30cm section of PVC tube, 7.9cm in diameter. Like the tubes on the transient layer sampler it is open at both ends but capable of being quickly sealed by semispherical plugs attached by rubber tubing.

Dip net is a small nylon net with mesh openings of about 2cm.

Ice cores were taken with Sipre Corer (7.5cm inside diameter).

Streamer samples were taken with Kraus streamer trap sampler.

Auger Holes are seven inch diameter auger holes drilled through the ice canopy leaving a mound of drilled shavings that were sampled.

- Samples 1 through 4 were taken during a trip on Chicago Water Department Supply tug *Versluis* to the water intake structure (cribs) offshore of Chicago on February 9.

SLM-89-1. Ice sample taken from inside the Harrison Street Crib. (1800ml meltwater).

SLM-89-2. Ice sample taken from inside the 68th Street Crib. (1500ml melt).

SLM-89-3. Ice sample also taken from inside the 68th Street Crib. (1000ml melt).

SLM-89-4. Sample of drift ice adjacent to the dock at the 4-mile Crib. (1750ml melt).

- Samples 5 through 7 were taken at the beach at the north end of the Illinois Beach State Park Marina on Feb. 11.

SLM-89-5A. Sipre ice core (7cm diameter) from the landward flank of ice volcano on the south part of the beach. Representative of ice foot. (1650ml melt).

SLM-89-5B. Sipre ice core 5m inshore from 5A on ice foot. Length = 65cm. (1200ml melt).

SLM-89-6. Third core, representative of the north part of the beach. (1700ml melt).

SLM-89-7A. Barely bouyant ice rafted material picked up in the bay about 100m offshore, containing sediment up to gravel size. (4550ml melt).

SLM-89-7B. Taken in the same manner as 7A, but composed of 11 representative brash ice pieces. (12,200ml melt).

- Samples 8 & 9 were taken at the beach at the north end of the Illinois Beach State Park Marina on Feb. 12.

SLM-89-8A. Water sample from 50cm depth in one meter of water. (500ml).

SLM-89-8B. Ice sample representative clean floating brash. (3400ml melt).

SLM-89-8C. Ice sample typical of dirty brash. (7500ml melt).

SLM-89-9. Negatively bouyant ice from lakebed in 80 cm water 10m from the icefoot. (42ml melt).

- Sample 10 was taken at Fort Sheridan Beach, 11 through 13 were taken at Gillson Beach; all three are from Feb. 13.

SLM-89-10. Slush ice taken from the seaward edge of the ice foot with a dip net. (11,080ml melt).

SLM-89-11A. Dip net sample of slush and brash up to 10cm in diameter from base of ice foot at Gillson. Contained fine-grain sand. (1000ml melt).

SLM-89-11B. Dip net sample of ice broken from the underwater portion of icefoot.

SLM-89-12A. Composite of cores from ridges of nearshore ice complex. (8625ml melt).

SLM-89-12B. Composite of cores from troughs of nearshore ice complex. (6200ml melt).

SLM-89-13. Samples of drifting brash ice collected offshore. (4100ml melt).

- Samples 14 and 15 were collected at Lake Street, Indiana Dunes National Lakeshore, Gary, Indiana on Feb. 14.

SLM-89-14. Slush ice sample from the inside slope of an active ice volcano. (7250ml melt).

SLM-89-15. Representative cuts from 5 auger holes spaced over the middle 12m of the ice on Lake Street profile. There was relatively little relief here and the ice was less than 1m thick. (4000ml melt).

- Samples 16 through 20 were taken at the West Beach Bath House profile (WBR-1) and Ogden Dunes (WBR-2) at Indiana Dunes National Lakeshore on Feb. 15.

SLM-89-16. Composite ice sample from ridges, cuts from ice augering, taken along WBR-1 profile. (4260ml melt).

SLM-89-17. Dip net sample of slush ice lakeward of ice foot, along WBR-1 profile. (3080ml melt).

SLM-89-18. A 2cm thick, 15cm diameter piece of brash ice with sand disseminated throughout, taken along profile WBR-1. Sample spilled while melting, discarded.

SLM-89-19. Sample from center of ice ridge about 5m from shore on WBR-3 profile. (2220ml melt).

SLM-89-20. Slush ice from just lakeward of the ice foot on WBR-3 profile. (2670 ml melt).

- Samples 21 through 24 were collected at Grand Mere State Park on Feb. 16.

SLM-89-21. Bulk composite ice sample of the nearshore ice ridges, ice foot, and ice volcanos along profile. (1600ml melt).

SLM-89-22. Ice sample of congealed brash just lakeward of the ridge and lagoon complex; very clean. (850ml).

SLM-89-23. Ice sample from beneath 30cm of congealed brash ice 50m seaward of the ice ridges containing particulate matter unlike the overlying congealed brash. (147ml was filtered).

SLM-89-24. Ice sample from the outermost part of the shore fast ice on profile, contains visible sediment. (770ml filtered).

- Samples 25 through 29 were collected aboard the *Susie Q*, a fishing vessel out of Michigan City, Indiana, on Feb. 16.

SLM-89-25. 3cm-thick pancake ice with sediment on underside, 100m outside the Michigan City harbor entrance light house. (3175ml melt).

SLM-89-26. Brash collected 100m further offshore from #25 in a belt of ice. (2035ml melt).

SLM-89-27. Thin layer of slush ice, consisting of 2cm ice platelets, collected 200m seaward of the 3km wide belt of brash ice north of the Michigan City harbor entrance. (800ml were filtered).

SLM-89-28. Thin, fresh slush ice layer, consisting of large ice platelets, uncontaminated by coastal effects, north of Michigan City harbor entrance. (1000ml melt).

SLM-89-29. Ice sample representative of the dirty pieces traversed by *Suzie Q* on the way back toward harbor entrance. (2975ml melt).

- Samples 30 through 33 were collected at the end of Pier Street in Lakeside, Michigan on Feb. 17 on profile UM 6.

SLM-89-30. "Clean" slushy platelets found in a zone about 50m wide along lakeward margin of 395m wide ice on the outer part of UM-6 profile. (2250ml melt).

SLM-89-31. Same locale as #30. Dirty ice from outer 150m-wide ice zone between the shore ice ridges and lakeward clean ice; collected from the surface and from ice-auger shavings. (4550ml melt).

SLM-89-32. Same locale as #30. Representative sample of ice from auger holes of major nearshore ice ridges. Seems to be mainly sand. (9545ml melt).

SLM-89-33. Same locale as #30. Representative sample from ice foot auger holes along the shore face. Sand and coarser material. (1260ml melt).

- Sample 34 was collected at Grand Mere State Park on Feb. 17.

SLM-89-34. From Grand Mere profile, about 60m offshore. Taken lakeward of ridges beneath 30cm of congelation where a 15cm wide crack was developing. Ice sample was 30 by 40cm and about 8cm thick. Sediment was pock-marked on the upper surface, as if the sun was warming the sand grains from above. Meltwater was siphoned from bucket to retain as much of the suspended sediment as possible. (5800ml melt).

- Samples 35 through 37 were collected at the Chalet on the Lake (profile site UM-7), in Stevensville, Michigan on Feb. 20.

SLM-89-35. From ice foot and volcano ridges where ice zone was about 15m wide and influenced by artificial structures to the south. (3400ml melt).

SLM-89-36. Ice sample from the "clean" ice canopy lakeward of the ice ridges. About 5% of sediment was lost in processing. (4325ml melt).

SLM-89-37. Sand-rich ice from the rough congealed brash/slush ice over the outer bar along profile UM-7 where 5cm thick brash cakes were rafted one onto another and standing at steep angles. The sediment content is representative of 2-5% of the 80m-wide rough ice belt over the outer bar. Some of the ice in this belt evidently is grounded on the bar, and picked up its sediment load there. (450ml melt).

- Sample 38 was collected north of the St. Joseph Harbor jetty in St. Joseph, Michigan on Feb. 20.

SLM-89-38. Sample representative of a 150m-wide belt of ridged ice between the offshore large ridge and the icefoot. (2530ml melt).

- Samples 39 and 40 were collected on Feb. 21.

SLM-89-39. Ice sample taken from ice ridge area 150m offshore south of the St. Joseph harbor Jetty, Michigan. The ice sample is representative of the sediment-laden ice in the 7m high offshore ridge. (1620ml melt).

SLM-89-40. Representative ice sample, cleaned of snow and of wind ablation concentrations taken from the congealed brash/slush belt lakeward of the second ridge, about 100m from beach, near the Indiana/Michigan boundary. (4400ml melt).

- Samples 41 and 42 were collected at Gillson Beach, Illinois on Feb 22.

SLM-89-41. Dirty slush and brash ice sample recently thrown up onto 2m-high ice ridge. Longshore current in the 25m-wide belt of slush and brash was about 25cm/sec. to the south at the time. Ice pieces up to 1.5m in diameter were typical in the belt. (10,375ml melt).

SLM-89-42. Slush ice sample at same setting as #41, except 100m to the south, just south of the beach jetty. (7800ml melt).

- Samples 43 and 44 were collected at Illinois Beach State Park on Feb. 22.

SLM-89-43. Sample of brash ice pieces in 8m-wide zone, moving southward at a rate of 1-2 knots past the rangers house at Illinois Beach State Park. (13,850ml melt).

SLM-89-44. Ice sample of pebble-carrying brash ice from longshore current, off the Ranger Station, Ill. Beach State Park. The ice contained almost no sand or finer material. (2800ml melt).

- Samples 45 through 47 were collected at Illinois Beach St. Park on Feb. 23.

SLM-89-45. Clean looking, fine granular slush ice 10m from ice foot scarp at the shoreline, on Dead River profile. Ice was drifting south at an estimated rate of 80cm/sec (2850ml melt).

SLM-89-46. Very soft slush-ice balls (~10cm diam.), that looked like they contained more sediment than #45. Same place and time. (1800ml melt).

SLM-89-47. Dip net sample of slush ice 4m lakeward of the ice foot, where water depth was 30cm.

Presumably resuspension in the swash zone at this locale results in temporary higher sediment concentrations. (1825ml melt).

APPENDIX 1-B

Appendix 1-B is a table containing sediment characteristics of samples taken in February, 1989.

Sample No	vol.(ml)	sed. wt.(g)	sed. conc.(g/l)	Comments
1	1800	0.1928	0.1071	
2	1500	9.61	6.4067	
3	1000	0.2638	0.2638	
4	1750	7.251mg	18.128mg/l	800ml thru fltrs 61 & 62
5A	1650	14.59	8.842	
5B	1200	11.00	9.1667	Ice volume is 2500cc
6	1700	28.90	17.00	
7A	4550	1666.06	366.291	
7B	12,200			
8A	500	8.051mg	32.116	Filters 63 & 64
8B	3400	33.99	9.997	
8C	7500	205.54	27.405	
9	42	92.21	2195.476	Modified for sediment volume
10	11080	86.12	7.772	Modified for sediment volume
11A	1000	89.37	89.37	
11B		6.45		
12A	8625	96.52	11.1907	
12B	6200	66.23	10.68	
13	4100	94.60	23.073	Modified for sediment volume
14	7250	65.02	8.968	
15	4000	38.01	9.5025	
16	4260	43.22	10.1455	
17	3080	6.25	2.029	
18				Discarded
19	2220	2.30	1.036	
20	2670	2.37	0.887	
21	1600	7.6	4.75	
22	850	5.232mg	12.282mg/l	Filters 70 & 71
23	147	8.294mg	56.422mg/l	Filter 65
24	770	21.171mg	27.495mg/l	Filter 67
25	3175	0.1780	0.0561	
26	2035	0.0385	0.0189	
27	800	2.201mg	2.751mg/l	Filter 66
28	1000	6.489mg	6.489mg/l	Filter 68
29	2975	3.52	1.183	
30	2250	0.2704	0.1202	
31	4550	23.470	5.1582	
32	9545	74.25	7.7789	
33	1311	73.33	55.9	Modified for sediment volume
34	5800	0.491	0.0846	
35	3461	87.82	25.4	Modified for sediment volume
36	4325	2.15	0.4971	~5% sediment loss
37	450	0.6610	1.4689	
38	2530	15.10	5.9684	
39	1656	52.71	31.8	Modified for sediment volume
40	4400	24.86	5.650	
41	10375	22.44	2.1629	
42	7800	26.36	3.3795	
43	14660	1157.51	79.0	Modified for sediment volume
44	3198	568.56	178	Modified for sediment volume
45	2850	8.61	3.021	
46	1845	64.56	35.0	Modified for sediment volume
47	1844	28.32	15.4	Modified for sediment volume

APPENDIX 1-C

Appendix 1-C contains 1989 profile data. Locations may be found on figures 7 and 8.

PROFILE & DATA: ILLINOIS BEACH STATE PARK, MARINA, ILLINOIS

Latitude/Longitude (UTM): 42°29'30"N/87°48'10"W
(470444N/043408E)

Date: February 11, 1989

February 12, 1989

Time: February 11: 0800 - 1700 hrs

February 12: 0800 - 1700 hrs

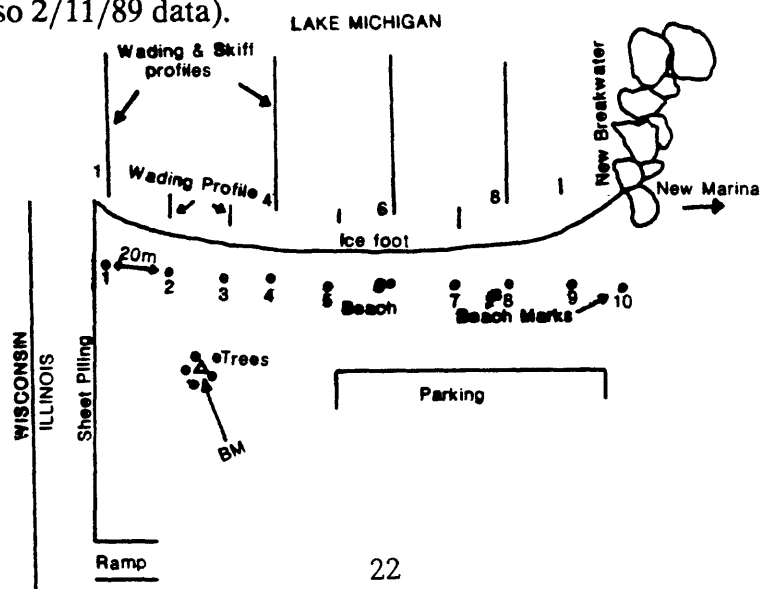
Location: See attached sketch - Location of survey is at Illinois Beach State Park's northern edge, at the pocket beach north of the new breakwater and south of the Wisconsin border.

Horizontal Control: The survey (both days) is referenced to an Illinois Survey (M.Chrzastowski, ISGS) marker (Bench Mark 1) located in a group of 5 trees between the launching ramp and the beach along the northern border of the park (see attached sketch). The Northing and Easting grid was oriented to true north using a hand held Brunton magnetic compass adjusted for the local declination (0). On February 12 the TNS was re-established ~2.5m northwest of Feb 11, 1989 location.

Vertical Control: Local lake level was measured between 1100 and 1400 hrs on the 11th. Lake levels at Calumet Harbor and Milwaukee gauging stations were averaged over corresponding hourly observations (176.037m at Calumet, range +0.06m,-0.05m ; 176.068m at Milwaukee, range 0.03m) and the lake level at the park was interpolated at halfway between these two reference stations (176.05 meters). Local lake level was measured at 0950 hrs on the 12th. Lake levels at Calumet Harbor and Milwaukee stations for 1000hrs observation (176.086m at Calumet ; 176.110m at Milwaukee) and the lake level at the park was interpolated at halfway between these two reference stations (176.10 meters).

Notes: All values reported in meters. Distance is the straightline distance from the survey station to the measurement point. Height represents the distance in meters above (+) and below (-) lake level (176.05m) at time of survey. Elevation represents the distance in meters above (+) and below (-) Low Water Datum, 1955 (175.81 m). The first portion (2/11/89) of the data has been collected for the purpose of estimating the ice foot volume along the beach. The second portion of the data relate to shore reference markers and a wading survey of profile lines 1,2, & 3.

The February 12 data contains offshore buoy locations used for a bathymetric survey by Illinois State Geological Survey (Mike Chrzastowski), and wading survey profiles 4 through 9. In addition, the outer edge of the shorefast ice wedge is further defined (see also 2/11/89 data).



PROFILE DATA: ILLINOIS BEACH STATE PARK, MARINA, WISCONSIN
Date: February 11, 1989
Time: 0800 - 1700 hrs

NORTHING	EASTING	ELEVATION	HEIGHT	CODE	DISTANCE
1000.000	1000.000	1.26	1.02	Total Station	0.000
1041.481	936.336	2.63	2.39	BENCH MARK 1	13.711
1096.493	1004.534	0.24	0.00	LAKE LEVEL	72.859
		0.00	-0.24	IGLD (175.81m)	
1077.877	1015.133		0.19	ICE/BEACH BOUNDARY	66.433
1085.882	1003.176		0.44	ICE/BEACH BOUNDARY	64.131
831.534	1036.537		0.44	ICE/BEACH BOUNDARY	85.358
1094.990	1002.743		0.48	ICE/BEACH BOUNDARY	70.541
867.478	1025.898		0.48	ICE/BEACH BOUNDARY	70.716
1076.031	1001.866		0.51	ICE/BEACH BOUNDARY	56.017
917.416	1009.334		0.61	ICE/BEACH BOUNDARY	50.246
1034.867	1003.872		0.62	ICE/BEACH BOUNDARY	27.559
1066.163	1002.213		0.62	ICE/BEACH BOUNDARY	49.048
1056.032	1001.661		0.64	ICE/BEACH BOUNDARY	41.303
995.806	1004.615		0.66	ICE/BEACH BOUNDARY	0.311
963.018	1005.292		0.67	ICE/BEACH BOUNDARY	22.087
1045.273	1002.237		0.68	ICE/BEACH BOUNDARY	33.914
1027.139	1003.358		0.72	ICE/BEACH BOUNDARY	21.663
1017.317	1002.573		0.76	ICE/BEACH BOUNDARY	14.102
802.029	1042.305		0.99	ICE/BEACH BOUNDARY	99.052
1088.791	1017.813		0.72	OUTER ICE EDGE	76.226
1081.646	1015.305		0.81	OUTER ICE EDGE	69.297
1078.297	1014.779		0.82	OUTER ICE EDGE	66.496
1087.409	1016.500		0.97	OUTER ICE EDGE	74.319
1024.059	1015.914		-0.03	OUTER ICE EDGE BTM	28.277
1055.259	1013.870		0.11	OUTER ICE EDGE BTM	49.174
1055.173	1013.456		0.67	OUTER ICE EDGE TOP	48.825
1024.270	1015.586		0.95	OUTER ICE EDGE TOP	28.195
1084.641	999.874		0.52	BEACH MARKER LINE1	60.979
1054.167	999.712		0.82	BEACH MARKER LINE2	38.609
1023.750	999.858		0.98	BEACH MARKER LINE3	16.793
993.256	1000.015		1.01	BEACH MARKER LINE4	4.750
962.751	999.928		1.00	BEACH MARKER LINE5	26.141
932.397	1000.107		0.95	BEACH MARKER LINE6	46.888
901.917	999.990		0.96	BEACH MARKER LINE7	67.575
871.454	999.969		1.25	BEACH MARKER LINE8	87.801
841.309	999.478		2.19	BEACH MARKER LINE9	107.784
810.636	999.028		2.28	BEACH MARKER LINE10	127.673
1081.527	1015.551	0.50	0.26	LINE 1; LAKE BED	69.378
1082.793	1021.605	-0.21	-0.45	LINE 1; LAKE BED	74.449
1087.324	1016.895	0.40	0.16	LINE 1; LAKE BED	74.527
1082.174	1029.174	-0.42	-0.66	LINE 1; LAKE BED	79.205
1081.433	1035.534	-0.53	-0.77	LINE 1; LAKE BED	83.060
1080.755	1043.284	-0.59	-0.83	LINE 1; LAKE BED	87.942
1079.752	1052.709	-0.67	-0.91	LINE 1; LAKE BED	93.785
1079.221	1061.312	-0.66	-0.90	LINE 1; LAKE BED	99.425
1078.380	1070.444	-0.91	-1.15	LINE 1; LAKE BED	105.245
1055.588	1026.333	-0.49	-0.73	LINE 2; LAKE BED	58.072
1056.050	1034.125	-0.49	-0.73	LINE 2; LAKE BED	63.845
1056.234	1039.559	-0.59	-0.83	LINE 2; LAKE BED	67.783
1056.454	1053.566	-0.64	-0.88	LINE 2; LAKE BED	77.797
1056.866	1066.905	-0.68	-0.92	LINE 2; LAKE BED	87.536
1057.267	1075.473	-0.76	-1.00	LINE 2; LAKE BED	93.916
1023.618	1002.557	1.05	0.81	LINE 3; LAKE BED	18.586
1024.219	1026.154	-0.51	-0.75	LINE 3; LAKE BED	35.620
1024.562	1034.331	-0.69	-0.93	LINE 3; LAKE BED	41.660
1024.997	1042.579	-0.63	-0.87	LINE 3; LAKE BED	47.836
1024.886	1046.044	-0.93	-1.17	LINE 3; LAKE BED	50.231

PROFILE DATA: ILLINOIS BEACH STATE PARK, MARINA, WISCONSIN
Date: February 12, 1989
Time: 088 -1700 hrs

NORTHING	EASTING	ELEVATION	HEIGHT	CODE	DISTANCE
1000.000	1000.000	1.20	0.91	Total Station	0.000
1043.455	937.880	2.65	2.36	BENCH MARK 1	11.211
1095.514	1018.481	0.29	0.00	LAKE LEVEL	81.599
		0.00	-0.29	IGLD (175.81m)	
1074.544	1096.156		-1.39	LINE 1 BOUY 1	120.779
1073.024	1131.016		1.67	LINE 1 BOUY 2	144.818
1073.890	1189.896		1.72	LINE 1 BOUY 3	188.625
1072.586	1268.641		1.66	LINE 1 BOUY 4	247.078
992.417	1081.878		-1.39	LINE 4 BOUY 1	53.898
994.412	1133.464		1.73	LINE 4 BOUY 2	93.631
997.045	1196.362		1.64	LINE 4 BOUY 3	143.150
1019.608	1326.915		1.72	LINE 4 BOUY 4	259.197
931.844	1086.597		-1.07	LINE 6 BOUY 1	17.229
931.087	1137.973		1.77	LINE 6 BOUY 2	56.128
929.878	1178.666		1.78	LINE 6 BOUY 3	87.095
931.264	1260.982		1.74	LINE 6 BOUY 4	153.373
867.440	1099.044		-1.26	LINE 8 BOUY 1	14.089
866.052	1146.488		1.84	LINE 8 BOUY 2	22.617
867.998	1185.713		1.72	LINE 8 BOUY 3	55.254
863.251	1251.591		1.73	LINE 8 BOUY 4	106.208
993.216	1032.105	-0.50	-0.79	LINE 4; LAKE BED	18.169
993.259	1045.466	-0.88	-1.17	LINE 4; LAKE BED	27.855
993.164	1060.164	-0.56	-0.85	LINE 4; LAKE BED	38.481
992.842	1066.022	-0.56	-0.85	LINE 4; LAKE BED	42.543
993.259	1084.104	-1.15	-1.44	LINE 4; LAKE BED	56.108
962.114	1036.273	-0.69	-0.98	LINE 5; LAKE BED	0.168
962.310	1027.560	0.00	-0.29	LINE 5; LAKE BED	6.407
962.273	1048.880	-0.36	-0.65	LINE 5; LAKE BED	9.204
962.370	1064.314	-0.68	-0.97	LINE 5; LAKE BED	20.680
962.513	1078.206	-0.90	-1.19	LINE 5; LAKE BED	31.110
931.636	1058.593	-0.39	-0.68	LINE 6; LAKE BED	4.049
931.308	1075.677	-0.74	-1.03	LINE 6; LAKE BED	8.606
931.504	1047.187	-0.25	-0.54	LINE 6; LAKE BED	12.679
932.309	1037.239	-0.65	-0.94	LINE 6; LAKE BED	19.558
931.980	1028.870	-0.27	-0.56	LINE 6; LAKE BED	25.992
902.193	1092.741	-0.84	-1.13	LINE 7; LAKE BED	2.838
902.587	1080.006	-0.66	-0.95	LINE 7; LAKE BED	6.706
902.761	1064.908	-0.49	-0.78	LINE 7; LAKE BED	18.145
902.019	1051.493	-0.29	-0.58	LINE 7; LAKE BED	28.834
902.357	1043.009	-0.11	-0.40	LINE 7; LAKE BED	35.041
882.823	1083.758	-0.75	-1.04	LINE 8; LAKE BED	16.391
881.735	1076.714	-0.65	-0.94	LINE 8; LAKE BED	22.535
870.096	1084.802	-0.70	-0.99	LINE 8; LAKE BED	23.580
870.135	1072.113	-0.47	-0.76	LINE 8; LAKE BED	33.431
880.180	1062.779	-0.37	-0.66	LINE 8; LAKE BED	34.280
870.307	1061.414	-0.21	-0.50	LINE 8; LAKE BED	41.612
878.669	1052.893	-0.18	-0.47	LINE 8; LAKE BED	42.848
870.557	1047.004	-0.07	-0.36	LINE 8; LAKE BED	52.565
826.711	1121.617	-0.94	-1.23	LINE 9; LAKE BED	20.845
828.674	1104.495	-0.72	-1.01	LINE 9; LAKE BED	33.413
830.614	1089.945	-0.57	-0.86	LINE 9; LAKE BED	43.849
831.929	1075.799	-0.28	-0.57	LINE 9; LAKE BED	54.269
833.089	1066.420	-0.17	-0.46	LINE 9; LAKE BED	60.962
833.604	1061.018	-0.17	-0.46	LINE 9; LAKE BED	64.897
869.250	1045.146		0.53	LAKESWARD ICE EDGE BTM	54.829
877.376	1043.591		-0.32	LAKESWARD ICE EDGE BTM	50.809
833.960	1057.383		-0.56	LAKESWARD ICE EDGE BTM	67.533
962.248	1024.676		-0.38	LAKESWARD ICE EDGE BTM	8.553
966.215	1024.013		-0.45	LAKESWARD ICE EDGE BTM	6.316
901.830	1033.138		-0.34	LAKESWARD ICE EDGE BTM	42.838
993.130	1021.621		-0.24	LAKESWARD ICE EDGE BTM	10.573
965.761	1025.596		-0.23	LAKESWARD ICE EDGE BTM	5.476
931.995	1024.102		-0.14	LAKESWARD ICE EDGE BTM	29.512
992.979	1021.440		0.63	LAKESWARD ICE EDGE TOP	10.338
901.751	1031.422		0.60	LAKESWARD ICE EDGE TOP	44.182
1025.740	1015.948		0.80	LAKESWARD ICE EDGE TOP	29.495
932.137	1022.702		0.83	LAKESWARD ICE EDGE TOP	30.451
1014.034	1016.736		0.91	LAKESWARD ICE EDGE TOP	21.759
962.553	1023.422		0.93	LAKESWARD ICE EDGE TOP	9.258
1038.595	1015.305		0.94	LAKESWARD ICE EDGE TOP	38.206
1002.986	1018.218		1.01	LAKESWARD ICE EDGE TOP	15.034
877.050	1041.961		0.96	LAKESWARD ICE EDGE TOP	52.267
834.247	1056.315		0.97	LAKESWARD ICE EDGE TOP	68.194

PROFILE & DATA: DEAD RIVER, ILLINOIS BEACH STATE PARK, ILLINOIS

Latitude/Longitude (UTM): 42°24'21"N/87°48'09"E
(4694490N/04334408E)

Date: February 23, 1989

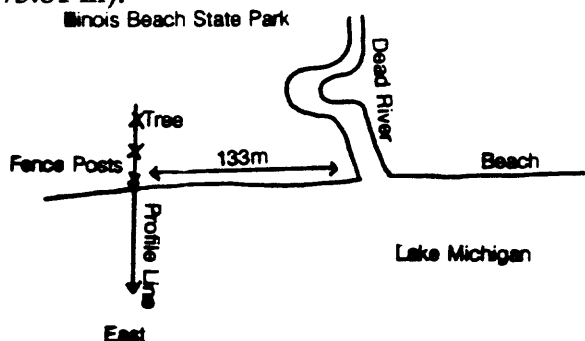
Time: 0900 - 1100 hrs

Location: See attached sketch - This survey is an east/west line located about 130m south of the mouth of the Dead River in the southern portion of the Illinois Beach State Park, Zion, Ill. The profile is a repeat of the inner portion of a profile obtained by Ralph Hunter on October 18, 1988.

Horizontal Control: The profile runs due east from the base of a pine tree (nail & tag) about 80 meters back from the beach. The profile crosses two beach ridges; each with a fence post stake. The Northing and Easting grid was oriented with north aligned onshore along the profile (from the fence posts toward the reference tree).

Vertical Control: The top of the inshore stake (Fence Post 1) was used for vertical control during the October survey. This stake had been severed at ground level before the Feb. '89 survey. Elevation of the lakeward fence post has been adjusted to ground level for yearly profile comparisons. Local lake level was measured between 0900 and 1100 hrs on the 23rd. Lake levels for corresponding hourly observations at Calumet Harbor and Milwaukee gauging stations were averaged (176.203m at Calumet, range +0.02m,-0.02m ; 176.164m at Milwaukee, range +0.005m,-0.005m) and the lake level at the park was interpolated at halfway between these two reference stations (176.18 meters).

Notes: All values reported in meters. 0.50m surf along with slush ice moving along shore precluded an extensive offshore profile. Distance is the straight line distance from the nail at the base of the tree to the measurement point. Height represents the distance in meters above (+) and below (-) lake level (176.18m) at time of survey. Elevation represents the distance in meters above (+) and below (-) Low Water Datum, 1955 (175.81 m).



PROFILE DATA: DEAD RIVER, ILLINOIS BEACH STATE PARK

Date: Feb. 23, 1989

Time: 0900 - 1100 hrs

NORTHING	EASTING	ELEVATION	HEIGHT	CODE	DISTANCE
1023.048	999.996	2.54	2.18	NAIL AT TREE BASE	0.000
1000.000	1000.000	3.44	3.08	FENCE POST 1(Station)	23.048
924.243	1000.221	0.37	0.00	LAKE LEVEL	
		0.00	-0.37	IGLD (175.81m)	
965.669	1000.014	2.24	2.65	FENCE POST 2	57.379
945.473	999.965	3.52	3.16	DUNE RIDGE 2	77.575
940.166	999.998	2.08	1.72	BEACH	82.882
934.991	1000.033	1.26	0.90	ICE EDGE	88.057
930.338	999.957	1.00	0.65	LAKE BED (ice foot)	92.710
972.803	1002.204	-0.44	-0.80	LAKE BED	104.793
966.166	1000.915	-0.84	-1.20	LAKE BED	111.430
930.554	999.957		1.16	ICE TOP	92.494
926.933	1000.519		1.52	OUTER EDGE ICE FOOT	96.115
924.758	1000.494		0.44	ICE TOP	96.280
926.113	1000.120		0.55	ICE TOP	96.935
981.316	1000.305		1.43	ICE TOP	98.290

PROFILE & DATA: GILLSON BEACH PARK, WILMETTE, ILLINOIS.

Latitude/Longitude (UTM): 42°04'43"N/87°40'58"E
(465850N/044352E)

Date: Feb. 13, 1989

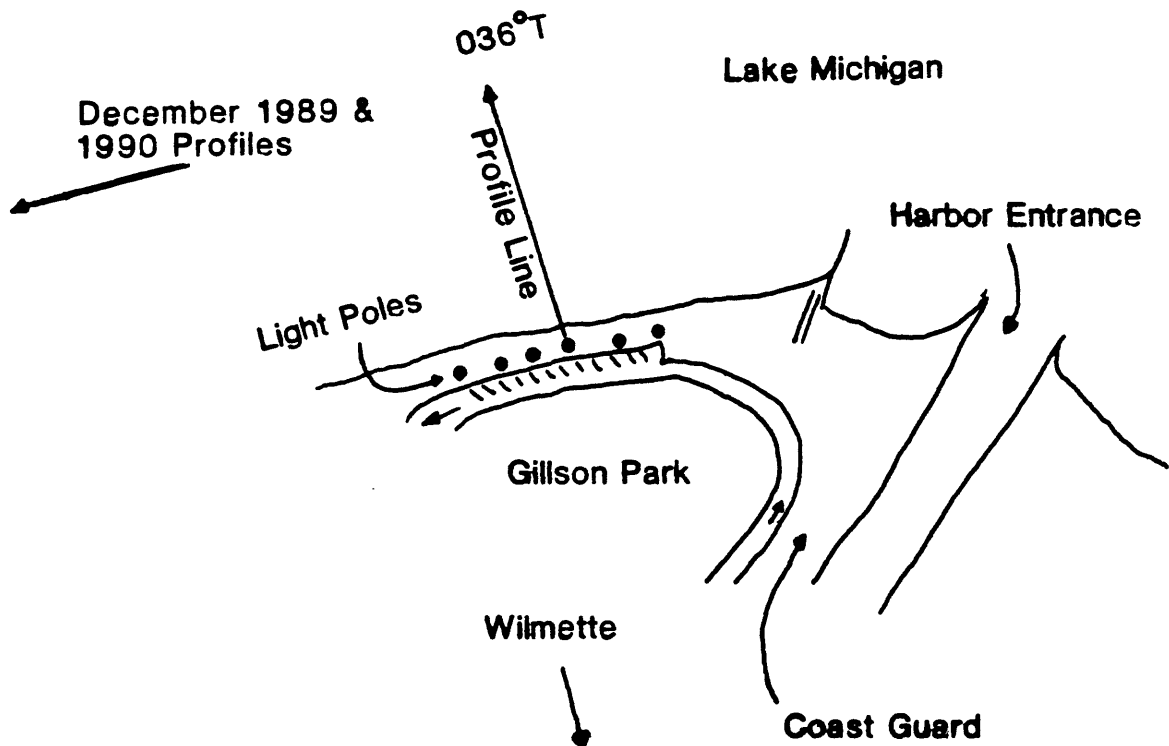
Time: 1300 - 1600 hrs

Location: See attached sketch - Location of survey is at the southern end of the beach at Gillson Park about 150m north of the northernmost of two groins at the harbor entrance. It should be noted that this locale is south of the December 1989, and 1990 Gillson profiles.

Horizontal Control: The survey is run on a bearing of 036 from a light pole along the lakeward side of the southeastern parking lot. The light pole is the third from the SE end of the parking lot. "USGS" is printed in black ink on the base of the light pole. The Northing and Easting grid was oriented to true north using a hand held Brunton magnetic compass adjusted for the local declination (0°).

Vertical Control: Local lake level was measured between 1300 and 1600 hrs on the 13th (2 measurements shown). Lake levels for corresponding hourly observations at Calumet Harbor and Milwaukee gauging stations were averaged (176.10m at Calumet, range +0.03m, -0.02m; 176.15m at Milwaukee, range +0.04m, -0.03m) and the lake level at the park was interpolated at halfway between these two reference stations (176.13 meters).

Notes: The ice foot and coastal ice ridges were well developed at this location. All values reported in meters. Distance is the straight line distance from the light post to the measurement point. Height represents the distance in meters above (+) and below (-) lake level (176.13m) at time of survey. Elevation represents the distance in meters above (+) and below (-) Low Water Datum, 1955 (175.81 m). Measurements were taken along the top of the fast ice, and on the lake bed offshore.



PROFILE DATA: GILLSON BEACH PARK, WILMETTE, ILL.
Date: Feb. 13, 1989
Time: 1300 - 1600 hrs

NORTHING	EASTING	ELEVATION	HEIGHT	CODE	DISTANCE
990.977	993.535	3.59	3.27	LAMP 3 (Benchmark)	0.000
1000.000	1000.000	3.25	2.93	Total Station	11.090
1055.446	1039.842	0.31	-0.01	Measured Lake Level	78.490
1055.49	1039.183	0.33	0.01	Measured Lake Level	78.060
		0.00	-0.32	IGLD (175.81m)	
1011.536	1008.666	2.38	2.06	BEACH	25.518
1014.799	1011.092	1.71	1.39	BEACH	29.584
1018.698	1013.962	1.35	1.03	BEACH	34.426
1023.105	1017.212	1.01	0.69	BEACH	39.901
1025.033	1018.564	0.56	0.24	BEACH	42.255
1026.121	1019.427	0.49	0.17	BEACH	43.643
1027.131	1020.184	0.44	0.12	BEACH	44.905
1031.119	1023.114	0.19	-0.13	LAKE BED	49.854
1032.518	1023.987	0.17	-0.15	LAKE BED	51.498
1037.306	1027.202	-0.07	-0.39	LAKE BED	57.260
1038.227	1027.956	-0.17	-0.49	LAKE BED	58.449
1040.056	1029.322	-0.11	-0.43	LAKE BED	60.731
1040.813	1029.766	-0.23	-0.55	LAKE BED	61.605
1043.767	1032.142	-0.33	-0.65	LAKE BED	65.392
1044.765	1032.947	-0.24	-0.56	LAKE BED	66.672
1047.467	1034.825	-0.40	-0.72	LAKE BED	69.962
1049.064	1035.763	-0.48	-0.80	LAKE BED	71.805
1050.835	1036.284	-0.41	-0.73	LAKE BED	73.546
1053.621	1038.633	-0.60	-0.92	LAKE BED	77.179
1054.512	1039.367	-0.50	-0.82	LAKE BED	78.331
1055.274	1039.842	-0.45	-0.77	LAKE BED	79.227
1056.728	1040.575	-0.78	-1.10	LAKE BED	80.835
1057.786	1041.367	-0.54	-0.86	LAKE BED	82.157
1058.888	1042.248	-0.73	-1.05	LAKE BED	83.565
1059.696	1042.749	-0.67	-0.99	LAKE BED	84.514
1060.957	1043.573	-0.70	-1.02	LAKE BED	86.019
1062.763	1044.880	0.47	0.15	ICE EDGE	88.248
1066.486	1047.294	0.27	-0.05	LAKE BED	92.681
1075.203	1053.249	-0.40	-0.72	LAKE BED	103.236
1086.639	1061.300	-1.23	-1.55	LAKE BED	117.222
1100.513	1072.118	-1.28	-1.60	LAKE BED	134.799
1119.736	1086.537	-0.91	-1.23	LAKE BED	158.824
1135.447	1097.877	-0.84	-1.16	LAKE BED	178.200
1154.745	1111.439	-1.31	-1.63	LAKE BED	201.785
1172.022	1122.847	-1.86	-2.18	LAKE BED	222.473
1024.996	1018.555		0.56	ICE TOP	42.220
1026.09	1019.515		0.70	ICE TOP	43.766
1027.188	1020.097		0.49	ICE TOP	44.899
1031.303	1023.107		0.21	ICE TOP	49.998
1032.624	1023.935		0.45	ICE TOP	51.552
1037.362	1027.252		0.60	ICE TOP	57.335
1038.429	1027.926		0.28	ICE TOP	58.594
1040.217	1029.451		0.69	ICE TOP	60.937
1040.988	1029.707		0.55	ICE TOP	61.711
1043.791	1032.244		0.82	ICE TOP	65.471
1044.855	1032.923		0.69	ICE TOP	66.731
1047.554	1034.806		0.76	ICE TOP	70.021
1049.191	1035.698		0.21	ICE TOP	71.869
1050.668	1036.275		0.17	ICE TOP	73.405
1053.523	1038.586		0.59	ICE TOP	77.072
1054.666	1039.425		0.30	ICE TOP	78.490
1055.248	1039.781		0.28	ICE TOP	79.170
1056.765	1040.542		0.83	ICE TOP	80.846
1057.897	1041.469		0.78	ICE TOP	82.306
1058.75	1042.120		0.81	ICE TOP	83.379
1059.56	1042.734		0.90	ICE TOP	84.398
1061.03	1043.621		1.13	ICE TOP	86.113

PROFILE & DATA: LAKE STREET BEACH, GARY, INDIANA

Latitude/Longitude (UTM): 41°37'10"N/87°16'40"W
(460735N/043408E)

Date: Feb. 14, 1989

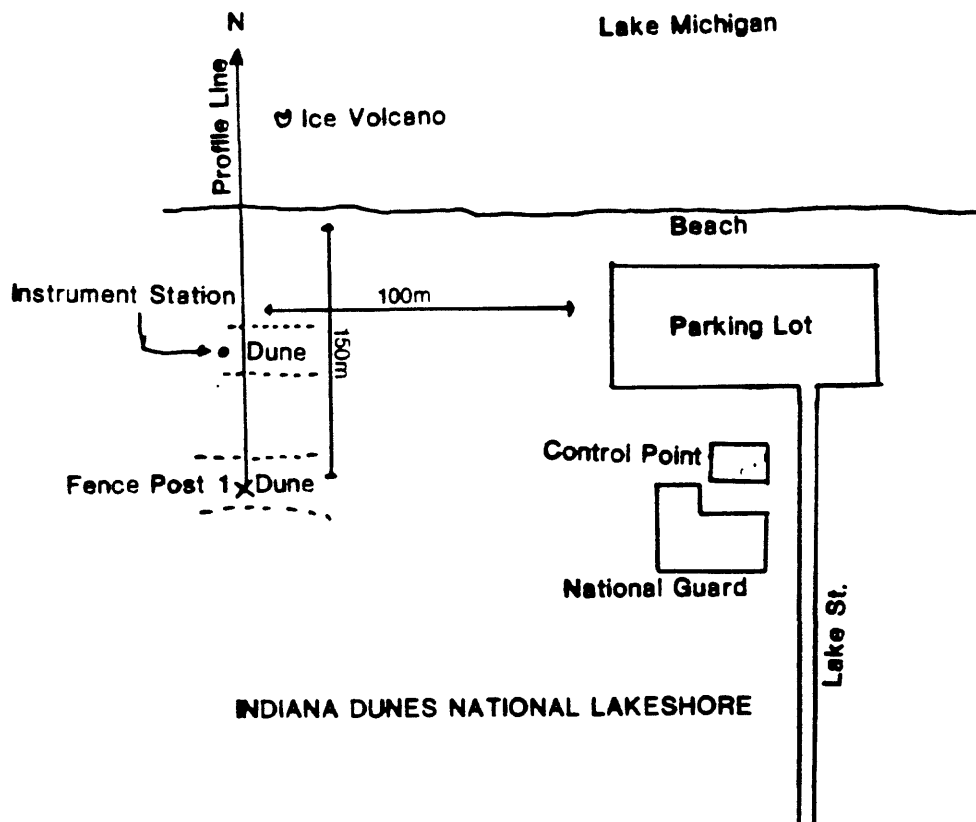
Time: 0830 - 1630 hrs

Location: See attached sketch - This survey is a north/south line located about 100m west of the Lake Street Beach parking lot of the Indiana Dunes National Lakeshore east of Gary, Indiana and west of Marquette Park. The profile is a repeat of a USGS profile obtained by Ralph Hunter on October 19, 1988.

Horizontal Control: The profile runs due north from the most landward fencepost at the crest of the second large dune about 150 meters back from the beach (see sketch). The Northing and Easting grid was oriented to true north on the pre-existing range markers (fence posts) and confirmed using a hand held Brunton magnetic compass adjusted for the local declination (0).

Vertical Control: Local lake level was measured between 0900 and 1100 hrs on the 23rd. Lake levels for corresponding hourly observations at Calumet Harbor gauging station (25 Km to the NW) were averaged; 176.20m, range 0.02m. The tops of both fence posts was also determined. Measured elevations of the lake bed and ice are believed accurate to within 0.10m.

Notes: A horizontal control point was shot to the northwest corner of the northernmost concrete block building at the National Guard site (see attached map). The coordinates of this building can be used to position the profile's original bench mark (TREE WASHER). All values reported in meters. Distance is the straight line distance from the fence post 1 at the top of the second dune ridge to the measurement point. Height represents the distance in meters above (+) and below (-) lake level (176.20m) at time of survey. Elevation represents the distance in meters above (+) and below (-) Low Water Datum, 1955 (175.81 m). Also included in this data set are elevation and planimetric coordinates for a single ice volcano.



PROFILE DATA: LAKE STREET, INDIANA DUNES NATIONAL LAKESHORE
Date: Feb. 14, 1989
Time: 0830 - 1630 hrs

NORTHING	EASTING	ELEVATION	HEIGHT	CODE	DISTANCE
1000.043	1000.000	8.84	8.45	Fence Post 1 (top)	0.000
1023.987	999.966	5.15	4.76	Fence Post 2 (top)	23.944
1054.020	999.668	4.45	4.06	TREE WASHER	53.978
1074.511	990.891	6.69	6.30	Total Station	75.023
1188.909	999.928	0.39	0.00	LAKE LEVEL	188.866
		0.00	-0.39	IGLD (175.81m)	
1019.628	1300.69	4.91	4.52	BLDG NW CORNER	301.286
1098.488	999.791	4.44	4.05	BEACH	98.445
1104.734	999.689	2.41	2.02	BEACH	104.691
1118.244	999.707	1.63	1.24	BEACH	118.201
1128.908	999.743	1.54	1.15	BEACH	128.865
1138.647	999.981	1.30	0.91	BEACH	138.604
1147.135	999.731	0.92	0.53	BEACH	147.092
1154.855	1000.656	0.46	0.07	ICE/BEACH BOUNDARY	154.813
1161.965	1001.073	-0.01	-0.40	LAKE BED	161.926
1167.165	1000.297	0.32	-0.07	LAKE BED	167.122
1169.390	999.835	-0.01	-0.40	LAKE BED	169.347
1170.337	999.529	0.02	-0.37	LAKE BED	170.295
1172.041	999.237	0.38	-0.01	LAKE BED	172.000
1176.723	999.340	-0.14	-0.53	LAKE BED	176.681
1178.248	999.311	-0.12	-0.51	LAKE BED	178.206
1179.354	999.305	-0.17	-0.56	LAKE BED	179.312
1181.177	999.488	-0.21	-0.60	LAKE BED	181.135
1182.664	999.530	-0.25	-0.64	LAKE BED	182.622
1184.417	999.616	-0.21	-0.60	LAKE BED	184.374
1186.432	999.937	-0.13	-0.52	LAKE BED	186.389
1187.877	999.680	-0.18	-0.57	LAKE BED	187.834
1188.695	999.707	-0.15	-0.54	LAKE BED	188.652
1192.117	999.779	-0.26	-0.65	LAKE BED	192.074
1194.460	999.986	-0.30	-0.69	LAKE BED	194.417
1196.746	999.943	-0.32	-0.71	LAKE BED	196.703
1199.166	999.854	-0.31	-0.70	LAKE BED	199.123
1200.883	1000.143	-0.29	-0.68	LAKE BED	200.840
1202.532	1000.023	-0.28	-0.67	LAKE BED	202.489
1204.258	999.953	-0.24	-0.63	LAKE BED	204.215
1205.836	999.752	-0.28	-0.67	LAKE BED	205.793
1207.221	999.417	-0.27	-0.66	LAKE BED	207.179
1209.664	999.799	-0.36	-0.75	LAKE BED	209.621
1212.393	999.799	-0.42	-0.81	LAKE BED	212.350
1213.489	1000.177	-0.45	-0.84	LAKE BED	213.446
1215.735	999.940	-0.53	-0.92	LAKE BED	215.692
1218.599	1000.380	-0.70	-1.09	LAKE BED	218.556
1220.977	1001.515	-0.75	-1.14	LAKE BED	220.939
1222.179	1002.295	-0.77	-1.16	LAKE BED	222.148
1223.323	1002.435	-0.91	-1.30	LAKE BED	223.293
1161.993	1001.051		0.18	ICE TOP	161.953
1167.328	1000.281		0.36	ICE TOP	167.285
1169.311	999.709		0.18	ICE TOP	169.268
1170.425	999.537		0.31	ICE TOP	170.383
1172.060	999.401		0.40	ICE TOP	172.018
1173.026	999.533		0.12	ICE TOP	172.984
1176.854	999.456		0.57	ICE TOP	176.812
1178.341	999.254		0.31	ICE TOP	178.300
1179.357	999.304		0.44	ICE TOP	179.315
1181.127	999.447		0.35	ICE TOP	181.085
1182.800	999.574		0.57	ICE TOP	182.757
1184.472	999.620		0.57	ICE TOP	184.429
1186.556	999.824		0.79	ICE TOP	186.513
1187.893	999.810		0.59	ICE TOP	187.850
1188.836	999.754		0.01	ICE TOP	188.793
1192.142	999.836		0.06	ICE TOP	192.099
1194.566	1000.023		0.05	ICE TOP	194.523
1196.628	999.734		0.09	ICE TOP	196.585
1199.229	1000.015		0.05	ICE TOP	199.186
1200.967	1000.103		0.05	ICE TOP	200.924
1202.372	1000.012		0.05	ICE TOP	202.329
1204.157	999.947		0.02	ICE TOP	204.114
1205.853	999.844		0.27	ICE TOP	205.810
1207.264	999.402		0.60	ICE TOP	207.222
1209.844	999.809		0.44	ICE TOP	209.801
1212.702	999.820		0.28	ICE TOP	212.659
1213.521	1000.351		0.08	ICE TOP	213.478
1215.712	1000.051		0.18	ICE TOP	215.669
1218.576	1000.283		0.06	ICE TOP	218.533
1220.993	1001.627		0.16	ICE TOP	220.956
1222.130	1002.412		0.26	ICE TOP	222.100
1202.784	1020.805		0.06	Ice Volcano Top	203.805
1204.523	1019.637		0.21	Ice Volcano Top	205.421
1202.381	1023.048		0.02	Ice Volcano Top	203.646
1206.768	1019.586		0.48	Ice Volcano Top	207.651
1202.729	1025.547		0.01	Ice Volcano Top	204.289
1206.964	1022.269		1.28	Ice Volcano Top	208.116
1207.529	1021.824		1.19	Ice Volcano Top	208.630

1206.679	1023.102	1.26	Ice Volcano Top	207.923
1206.391	1023.695	1.31	Ice Volcano Top	207.704
1208.315	1021.470	0.92	Ice Volcano Top	209.375
1207.434	1022.579	0.47	Ice Volcano Top	208.616
1207.230	1023.296	0.49	Ice Volcano Top	208.492
1208.368	1022.158	0.41	Ice Volcano Top	209.500
1207.318	1024.062	1.10	Ice Volcano Top	208.667
1208.885	1022.282	0.85	Ice Volcano Top	210.027
1205.280	1026.577	0.14	Ice Volcano Top	206.950
1208.514	1023.878	0.75	Ice Volcano Top	209.834
1207.213	1026.175	0.31	Ice Volcano Top	208.817
1208.641	1024.691	0.41	Ice Volcano Top	210.054
1202.68	1021.006	-0.89	Ice Volcano Bottom	203.810
1207.252	1022.596	-0.11	Ice Volcano Bottom	208.437
1208.279	1022.295	-1.17	Ice Volcano Bottom	209.426
1207.940	1022.966	-1.12	Ice Volcano Bottom	209.161
1208.773	1023.005	-1.22	Ice Volcano Bottom	209.994

PROFILE DATA: PIER STREET (UM-6), LAKESIDE, MICHIGAN

Latitude/Longitude (UTM): 41°51'13"N/86°40'22"W
(463320N/052720E)

Date: Feb. 17, 1989

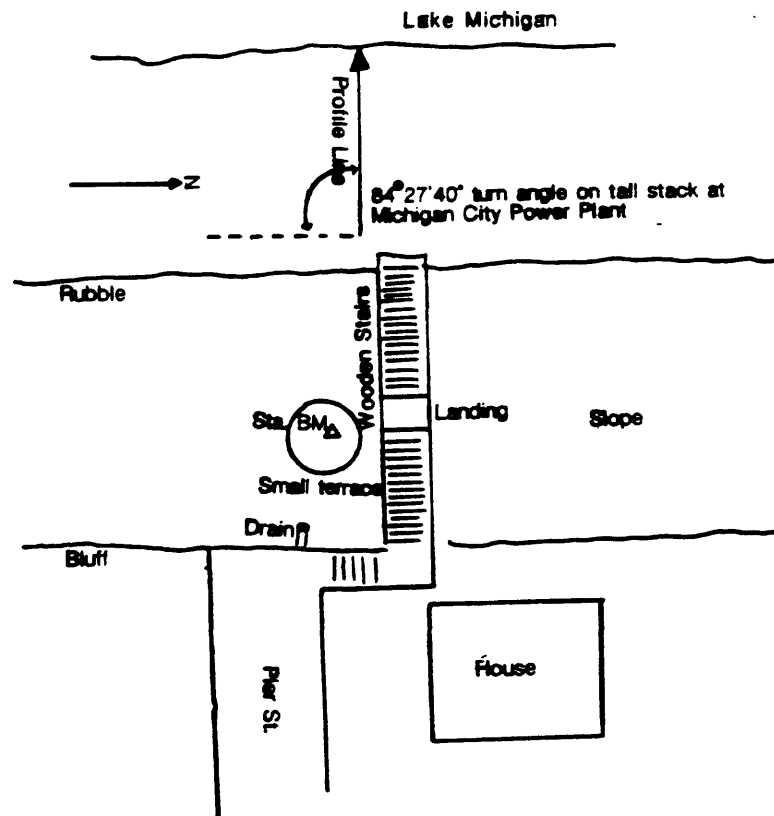
Time: 0900 - 1300 hrs

Location: See attached sketch - The survey site is located at the end of Pier Street, Lakeside, Michigan. The survey is a reoccupation of profile line UM-6 run by the University of Michigan.

Horizontal Control: The shore normal line runs on a turn angle of 84° 27' 40" from the northwestern side of a tall smokestack at the Michigan City power plant to the southwest. The survey station was set up over a pre-existing bench mark emplaced about 1.5m southwest from a landing at the midpoint of a beach access staircase (see sketch). The turn angle was confirmed using a hand held Brunton compass adjusted for the local declination (0°) to align the profile on a magnetic bearing of 312°. The Northing and Easting grid was oriented with true north aligned offshore along the profile line (312°).

Vertical Control: Local lake level was measured between 0900 and 1300 hrs on the 17th. Lake levels for corresponding hourly observations at Calumet Harbor and Luddington gauging stations (176.23m, range +0.03m, -0.02m at Calumet ; 176.15m, range 0.01m at Luddington) were interpolated with respect to site/gauging station proximity: Calumet (75%), Luddington (25%) thus yielding an estimated lake level of 176.21m for the time of the survey. Measured elevations of the lake bed and ice are believed accurate to within 0.10m.

Notes: All values reported in meters. Distance is the straight line distance from the reference benchmark to the measurement point. Height represents the distance in meters above (+) and below (-) lake level (176.21m) at time of survey. Elevation represents the distance in meters above (+) and below (-) Low Water Datum, 1955 (175.81 m).



PROFILE DATA: PIER STREET (UM-6), LAKESIDE, MICHIGAN
Date: Feb. 17, 1989
Time: 0900 - 1300 hrs

NORTHING	EASTING	ELEVATION	HEIGHT	CODE	DISTANCE
0.000	0.000	5.45	5.05	Total Station	0.000
		0.40	0.00	AVG. LAKE LEVEL	
		0.00	-0.40	IGLD (175.81m)	
-5.975	0.279	1.59	1.19	BEACH	5.982
-19.969	0.282	1.17	0.77	BEACH	19.971
-21.134	0.342	1.00	0.60	BEACH	21.137
-21.289	0.035	1.15	0.75	BEACH	21.289
-22.065	0.513	1.12	0.72	ICE/BEACH BOUNDARY	22.071
-22.348	0.175	0.39	-0.01	ICE FOOT BOTTOM	22.349
-23.162	0.171	0.46	0.06	ICE FOOT BOTTOM	23.163
-24.361	0.052	0.29	-0.11	LAKE BED	24.361
-25.807	0.055	0.15	-0.25	LAKE BED	25.807
-26.708	0.041	0.14	-0.26	LAKE BED	26.798
-28.043	-0.058	0.08	-0.32	LAKE BED	28.043
-29.267	-0.167	0.08	-0.32	LAKE BED	29.267
-30.666	-0.146	-0.10	-0.50	LAKE BED	30.666
-32.070	-0.106	0.05	-0.35	LAKE BED	32.070
-33.875	-0.036	-0.13	-0.53	LAKE BED	33.875
-41.782	-0.076	-0.40	-0.80	LAKE BED	41.782
-45.952	-0.025	-0.52	-0.92	LAKE BED	45.952
-50.487	0.115	-0.52	-0.92	LAKE BED	50.487
-57.596	-0.126	-0.32	-0.72	LAKE BED	57.596
-60.785	-0.038	-0.63	-1.03	LAKE BED	60.785
-67.080	0.039	-0.44	-0.84	LAKE BED	67.080
-70.090	-0.263	-0.64	-1.04	LAKE BED	70.090
-75.704	0.034	-0.58	-0.98	LAKE BED	75.704
-80.798	-0.046	-0.70	-1.10	LAKE BED	80.798
-85.789	-0.095	-1.10	-1.50	LAKE BED	85.789
-87.101	-0.117	-0.95	-1.35	LAKE BED	87.101
-88.706	-0.119	-0.83	-1.23	LAKE BED	88.706
-90.569	-0.206	-1.18	-1.58	LAKE BED	90.569
-94.564	0.195	-1.21	-1.61	LAKE BED	94.564
-99.600	0.346	-0.86	-1.26	LAKE BED	99.601
-102.736	-0.065	-0.81	-1.21	LAKE BED	102.736
-104.569	-0.319	-0.83	-1.23	LAKE BED	104.569
-106.052	-0.328	-0.85	-1.25	LAKE BED	106.053
-108.872	-0.453	-0.88	-1.28	LAKE BED	108.873
-110.622	-0.496	-0.84	-1.24	LAKE BED	110.623
-113.633	-0.324	-0.88	-1.28	LAKE BED	113.633
-116.996	-0.623	-0.99	-1.39	LAKE BED	116.998
-119.848	-1.209	-1.18	-1.58	LAKE BED	119.854
-122.370	-0.481	-1.26	-1.66	LAKE BED	122.371
-125.359	-0.513	-1.32	-1.72	LAKE BED	125.360
-129.004	-0.369	-1.44	-1.84	LAKE BED	129.005
-133.888	-0.548	-1.83	-2.23	LAKE BED	133.889
-137.741	-0.292	-1.95	-2.35	LAKE BED	137.741
-142.095	-0.376	-2.41	-2.81	LAKE BED	142.095
-145.911	-0.471	-2.74	-3.14	LAKE BED	145.912
-150.745	-0.441	-2.75	-3.15	LAKE BED	150.746
-157.073	-0.731	-3.06	-3.46	LAKE BED	157.075
-163.258	-0.721	-2.89	-3.29	LAKE BED	163.260
-170.181	-0.163	-2.97	-3.37	LAKE BED	170.181
-178.516	-0.369	-3.20	-3.60	LAKE BED	178.516
-187.781	-0.538	-3.27	-3.67	LAKE BED	187.782
-194.501	-0.587	-3.23	-3.63	LAKE BED	194.502
-202.880	-0.808	-3.40	-3.80	LAKE BED	202.882
-213.575	-0.522	-3.65	-4.05	LAKE BED	213.576
-222.140	0.466	-3.80	-4.20	LAKE BED	222.140
-228.326	-0.842	-3.76	-4.16	LAKE BED	228.328
-243.785	-0.975	-3.93	-4.33	LAKE BED	243.787
-254.581	-0.665	-4.32	-4.72	LAKE BED	254.582
-269.723	-0.560	-4.50	-4.90	LAKE BED	269.724
-282.490	-0.760	-4.02	-4.42	LAKE BED	282.491
-294.984	-0.009	-3.56	-3.96	LAKE BED	294.984
-313.675	-0.409	-3.11	-3.51	LAKE BED	313.675
-327.784	-1.035	-3.04	-3.44	LAKE BED	327.786
-346.200	-1.039	-2.80	-3.20	LAKE BED	346.202
-357.114	0.284	-2.36	-2.76	LAKE BED	357.114
-360.888	-0.605	-2.29	-2.68	LAKE BED	360.889
-368.370	-2.081	-2.57	-2.97	LAKE BED	368.376
-382.507	-1.346	-3.51	-3.91	LAKE BED	382.509
-396.257	-3.744	-4.18	-4.58	LAKE BED	396.275

-21.226	0.247	1.08	0.68	ICE TOP	21.227
-22.247	0.264	1.18	0.78	ICE TOP	22.249
-23.267	0.101	0.84	0.44	ICE TOP	23.267
-24.564	0.020	0.67	0.27	ICE TOP	24.564
-25.895	0.050	0.73	0.33	ICE TOP	25.895
-26.479	0.048	0.75	0.35	ICE TOP	26.479
-26.877	0.038	0.83	0.43	ICE TOP	26.877
-28.153	-0.136	0.95	0.55	ICE TOP	28.153
-29.229	-0.151	1.19	0.79	ICE TOP	29.229
-30.772	-0.076	1.42	1.02	ICE TOP	30.772
-31.984	0.026	1.39	0.99	ICE TOP	31.984
-32.153	-0.164	1.35	0.95	ICE TOP	32.153
-33.861	-0.018	0.47	0.07	ICE TOP	33.861
-37.722	-0.072	0.38	-0.02	ICE TOP	37.722
-41.793	-0.063	0.38	-0.02	ICE TOP	41.793
-50.486	0.182	0.40	0.00	ICE TOP	50.486
-57.683	-0.102	0.44	0.04	ICE TOP	57.683
-60.780	-0.183	1.31	0.91	ICE TOP	60.780
-67.419	-0.060	0.43	0.03	ICE TOP	67.419
-75.733	0.023	0.42	0.02	ICE TOP	75.733
-80.818	-0.067	0.41	0.01	ICE TOP	80.818
-85.892	0.221	0.62	0.22	ICE TOP	85.892
-87.283	-0.112	1.08	0.68	ICE TOP	87.283
-88.723	-0.165	1.58	1.18	ICE TOP	88.723
-90.685	-0.311	0.65	0.25	ICE TOP	90.686
-94.716	-0.039	0.50	0.10	ICE TOP	94.716
-99.830	0.238	1.11	0.71	ICE TOP	99.830
-102.879	-0.160	1.59	1.19	ICE TOP	102.879
-104.671	-0.231	1.92	1.52	ICE TOP	104.671
-106.239	-0.246	1.52	1.12	ICE TOP	106.239
-109.214	-0.351	1.95	1.55	ICE TOP	109.215
-110.742	-0.561	1.24	0.84	ICE TOP	110.743
-113.759	-0.383	1.65	1.25	ICE TOP	113.760
-117.146	-0.696	2.15	1.76	ICE TOP	117.148
-119.822	-1.439	2.57	2.17	ICE TOP	119.831
-122.343	-0.354	1.11	0.71	ICE TOP	122.344
-125.487	-0.561	0.44	0.04	ICE TOP	125.488
-129.107	-0.409	0.44	0.04	ICE TOP	129.108
-134.054	-0.497	0.49	0.09	ICE TOP	134.055
-137.612	-0.371	0.41	0.01	ICE TOP	137.613
-141.945	-0.498	0.40	0.00	ICE TOP	141.946
-145.986	-0.471	0.39	-0.01	ICE TOP	145.987
-150.654	-0.383	0.48	0.08	ICE TOP	150.654
-157.145	-0.745	0.44	0.04	ICE TOP	157.147
-163.260	-0.800	0.32	-0.08	ICE TOP	163.262
-170.569	-0.165	0.28	-0.12	ICE TOP	170.569
-178.530	-0.094	0.53	0.13	ICE TOP	178.530
-188.110	-0.495	0.45	0.05	ICE TOP	188.111
-194.377	-0.696	0.41	0.01	ICE TOP	194.378
-202.852	-0.788	0.43	0.03	ICE TOP	202.854
-213.496	-0.373	0.43	0.03	ICE TOP	213.496
-222.014	0.387	0.50	0.10	ICE TOP	222.014
-228.244	-0.820	0.44	0.04	ICE TOP	228.245
-243.597	-1.199	0.44	0.04	ICE TOP	243.600
-254.757	-0.601	0.44	0.04	ICE TOP	254.758
-269.976	-0.363	0.52	0.12	ICE TOP	269.976
-282.568	-0.670	0.37	-0.03	ICE TOP	282.569
-294.649	-0.086	0.38	-0.02	ICE TOP	294.649
-313.481	-0.406	0.45	0.05	ICE TOP	313.481
-327.787	-0.995	0.44	0.04	ICE TOP	327.789
-346.203	-1.012	0.44	0.04	ICE TOP	346.204
-357.169	0.281	0.36	-0.04	ICE TOP	357.169
-361.214	-0.951	0.44	0.04	ICE TOP	361.215
-368.559	-2.184	0.52	0.12	ICE TOP	368.565
-382.413	-1.431	0.58	0.18	ICE TOP	382.416
-396.338	-3.632	0.28	-0.12	ICE TOP	396.355

PROFILE DATA: GRAND MERE STATE PARK (S-3), MICHIGAN

Latitude/Longitude (UTM): 42°00'26"N/86°33'10"W
(465062N/052720E)

Date: Feb. 16, 1989

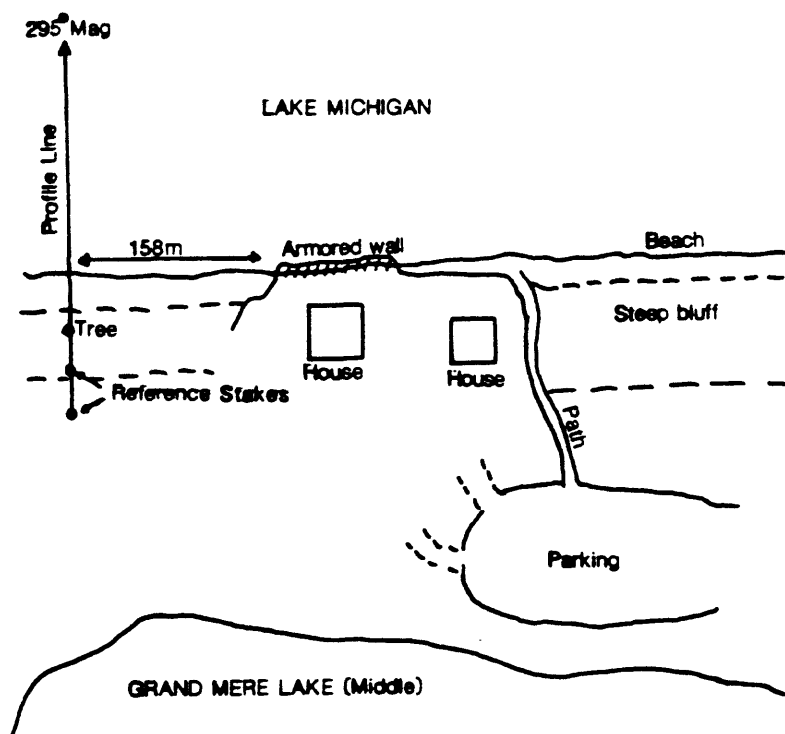
Time: 1000 - 1600 hrs

Location: See attached sketch - The survey site is located about 100m south of an armoured wall protecting the beach of a private residence at the southern terminous of the North Lake Park access road, Grand Mere Lakes, Grand Mere State Park, Michigan. The profile is a repeat of a USGS profile S-3 obtained by Ralph Hunter on October 20, 1988.

Horizontal Control: The shore normal line runs on a magnetic bearing of 295 from an oak tree reference point marked with fender washers at its base. The line was established by pre-existing range markers (fence posts) emplaced 9.32m and 26.35m further landward from the reference tree. The Northing and Easting grid was oriented with true north aligned offshore along the range markers and confirmed using a hand held Brunton magnetic compass adjusted for the local declination (0).

Vertical Control: Local lake level was measured between 1000 and 1600 hrs on the 16th. Lake levels for corresponding hourly observations at Calumet Harbor and Luddington gauging stations (176.20m, range +0.04m, -0.03m at Calumet ; 176.16m, range 0.02m at Luddington) were interpolated with respect to site/gauging station proximity: Calumet (68%), Luddington (32%) thus yeilding an estimated lake level of 176.19m for the time of the survey. Measured elevations of the lake bed and ice are believed accurate to within 0.10m.

Notes: All values reported in meters. Distance is the straight line distance from the reference TREE WASHER to the measurement point. Height represents the distance in meters above (+) and below (-) lake level (176.20m) at time of survey. Elevation represents the distance in meters above (+) and below (-) Low Water Datum, 1955 (175.81 m). The ICE SURVEY LIMIT refers to ta measurement 50 meters inshore from the ice edge.



PROFILE DATA: GRAND MERE STATE PARK (S-3), MICHIGAN
Date: Feb. 16, 1989
Time: 1000 - 1600 hrs

NORTHING	EASTING	ELEVATION	HEIGHT	CODE	DISTANCE
1028.379	999.924	9.01	8.64	TREE WASHER	0.000
1000.000	1000.000	1.94	1.57	Total station	20.154
932.228	999.747	0.38	0.03	Measured Lake Level	67.77
		0.35	0.00	AVG. LAKE LEVEL	75.60
916.573	1000.762	0.32	-0.03	Measured Lake Level	83.43
		0.00	-0.35	IGLD (175.81m)	
988.838	1000.046	3.99	3.62	BEACH	27.992
983.516	1000.018	2.83	2.46	BEACH	31.749
978.319	999.883	2.40	2.03	BEACH	35.485
964.945	999.982	1.74	1.37	BEACH	44.734
957.787	1000.064	1.68	1.31	BEACH	49.636
951.375	1000.124	1.18	0.81	BEACH	54.019
944.843	1000.505	0.52	0.15	BEACH	58.236
942.051	1000.364	0.70	0.33	BEACH	60.254
939.913	1000.341	-0.10	-0.47	LAKE BED	61.736
935.594	1000.576	-0.42	-0.79	LAKE BED	64.518
931.731	1000.702	-0.48	-0.85	LAKE BED	67.061
928.286	1000.693	-0.55	-0.92	LAKE BED	69.413
925.134	1000.841	-0.60	-0.97	LAKE BED	71.446
922.555	1000.393	-0.53	-0.90	LAKE BED	73.525
919.319	1000.251	-0.52	-0.89	LAKE BED	75.821
915.194	1000.271	-0.47	-0.84	LAKE BED	78.594
913.880	1000.536	-0.39	-0.76	LAKE BED	79.285
909.555	1000.512	-0.47	-0.84	LAKE BED	82.216
908.593	1000.226	-0.48	-0.85	LAKE BED	83.075
906.113	1000.264	-0.55	-0.92	LAKE BED	84.713
904.000	999.552	-0.54	-0.91	LAKE BED	86.659
899.084	999.814	-0.74	-1.11	LAKE BED	89.757
894.548	1000.777	-1.02	-1.39	LAKE BED	92.067
888.178	1000.627	-1.44	-1.81	LAKE BED	96.416
881.484	1000.929	-1.64	-2.01	LAKE BED	100.624
872.670	1001.192	-1.49	-1.86	LAKE BED	106.235
862.900	1001.258	-1.70	-2.06	LAKE BED	112.584
853.380	1001.457	-1.80	-2.17	LAKE BED	118.627
841.159	1001.590	-1.26	-1.63	LAKE BED	126.419
836.608	1001.722	-1.28	-1.65	LAKE BED	129.240
829.857	1001.504	-1.39	-1.76	LAKE BED	133.725
824.174	1001.723	-1.47	-1.84	LAKE BED	137.174
813.407	1002.088	-2.04	-2.41	LAKE BED	143.705
803.404	1001.803	-2.47	-2.84	LAKE BED	150.208
791.753	1002.219	-3.00	-3.37	LAKE BED	157.138
758.635	1000.087	-3.58	-3.95	LAKE BED	179.099
743.836	1000.951	-3.71	-4.08	LAKE BED	187.293
729.270	1000.699	-4.00	-4.37	LAKE BED	196.130
713.078	1001.106	-4.08	-4.45	LAKE BED	205.265
693.800	1001.307	-3.84	-4.21	LAKE BED	216.183
679.377	1000.085	-3.76	-4.13	LAKE BED	225.351
659.675	1000.563	-3.20	-3.56	LAKE BED	235.912
639.727	1000.328	-2.53	-2.89	LAKE BED	246.973
622.408	1000.488	-2.31	-2.68	LAKE BED	256.078
605.148	1000.192	-2.59	-2.96	LAKE BED	265.356
586.880	1000.461	-3.67	-4.04	LAKE BED	274.476
561.543	1000.322	-4.94	-5.31	LAKE BED	287.209
544.384	1000.002	-4.97	-5.34	LAKE BED	295.791
523.001	1002.845	-4.65	-5.02	LAKE BED	303.338

949.3	999.897	0.86	ICE TOP	55.573
947.410	999.562	1.07	ICE TOP	57.157
944.901	1000.437	0.87	ICE TOP	58.246
942.086	1000.273	1.37	ICE TOP	60.297
941.280	1000.451	0.25	ICE TOP	60.719
939.791	1000.371	0.04	ICE TOP	61.798
935.496	1000.558	-0.01	ICE TOP	64.598
931.831	1000.641	-0.01	ICE TOP	67.038
928.118	1000.579	0.01	ICE TOP	69.611
925.036	1000.798	0.27	ICE TOP	71.544
922.580	1000.307	0.79	ICE TOP	73.571
919.093	1000.214	0.26	ICE TOP	76.001
915.137	1000.314	0.27	ICE TOP	78.601
913.854	1000.554	0.46	ICE TOP	79.290
912.736	1000.619	0.14	ICE TOP	79.995
909.474	1000.596	0.51	ICE TOP	82.209
908.591	1000.411	0.19	ICE TOP	82.939
906.068	1000.134	0.87	ICE TOP	84.839
903.924	999.533	0.07	ICE TOP	86.724
899.172	999.665	0.01	ICE TOP	89.808
894.520	1000.674	0.02	ICE TOP	92.163
888.194	1000.773	-0.05	ICE TOP	96.297
881.223	1000.932	0.07	ICE TOP	100.794
872.669	1001.040	0.08	ICE TOP	106.350
862.803	1001.354	0.03	ICE TOP	112.574
853.335	1001.203	-0.03	ICE TOP	118.850
840.931	1001.514	0.03	ICE TOP	126.624
836.498	1001.627	0.01	ICE TOP	129.383
829.694	1001.472	-0.06	ICE TOP	133.853
824.082	1001.755	0.06	ICE TOP	137.208
813.459	1002.340	0.03	ICE TOP	143.476
803.533	1001.609	0.09	ICE TOP	150.278
791.873	1002.014	0.03	ICE TOP	157.225
775.668	1000.413	0.11	ICE TOP	168.474
775.653	1000.601	0.06	ICE TOP	168.335
758.567	1000.007	0.05	ICE TOP	179.204
743.825	1001.078	0.09	ICE TOP	187.198
729.189	1000.740	0.07	ICE TOP	196.145
713.170	1000.922	0.10	ICE TOP	205.362
693.877	1001.487	-0.07	ICE TOP	215.991
679.347	1000.677	0.08	ICE TOP	224.878
659.565	1000.374	0.01	ICE TOP	236.130
639.702	1000.451	0.06	ICE TOP	246.883
622.418	1000.450	-0.04	ICE TOP	256.105
605.334	1000.304	0.18	ICE TOP	265.164
586.982	1000.461	0.03	ICE TOP	274.424
561.674	1000.366	0.27	ICE TOP	287.106
561.309	1000.627	0.30	ICE TOP	287.057
544.723	1000.087	0.18	ICE TOP	295.554
524.429	999.766	0.20	ICE TOP	305.405
368.688	992.350	----	ICE SURVEY LIMIT	375.742

PROFILE & DATA: NATIONAL PARK BATH HOUSE, WEST BEACH (WBR-1), INDIANA

Latitude/Longitude (UTM): 41°37'34"N/87°12'30"W
(460808N/048268E)

Date: Feb. 15, 1989

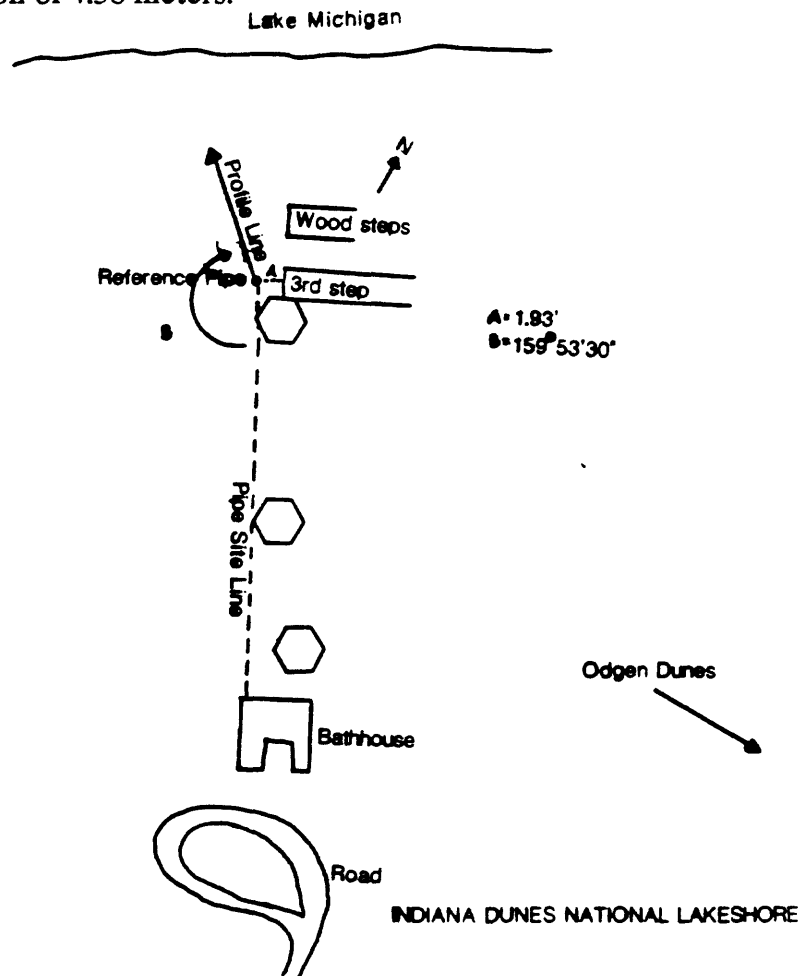
Time: 0730 - 1030 hrs

Location: See attached sketch - The survey site is located at the lakeward side of the National Park bath house, Ogden Dunes, Indiana Dunes National Lakeshore. The profile is a repeat of Bill Wood's (Purdue University) WBR - 1 profile.

Horizontal Control: The profile is run shore normal using a turn angle of 159° 53' 30" originating from the east edge of a structural gap in the bath house building from the bench mark pipe. The Northing and Easting grid was oriented to true north using a hand held Brunton magnetic compass adjusted for the local declination (0°).

Vertical Control: Local lake level was measured between 0800 and 1100 hrs on the 15th. Lake levels for corresponding hourly observations at Calumet Harbor gauging station were averaged; 176.21m, range 0.04m. Vertical control also exists from WBR -1 pipe benchmark which is 4.58 meters above Low Water Datum (Wood, per. comm.). Measured elevations of the lake bed and ice are believed accurate to within 0.10m.

Notes: All values reported in meters. Distance is the straight line distance from Pipe 1 (instrument station) to the measurement point. Height represents the distance in meters above (+) and below (-) lake level (176.21m) at time of survey. Elevation represents the distance in meters above (+) and below (-) Low Water Datum, 1955 (175.81 m). Measured elevations have been adjusted to WBR -1 pipe benchmark elevation of 4.58 meters.



PROFILE DATA: NATIONAL PARK BATH HOUSE, WEST BEACH (WBR-1)
Date: Feb. 15, 1989
Time: 0730 - 1030 hrs

NORTHING	EASTING	ELEVATION	HEIGHT	CODE	DISTANCE
0.000	0.000	4.58	4.18	PIPE 1(Benchmark)	0.000
-61.042	22.521	0.40	0.00	LAKE LEVEL	65.064
		0.00	-0.40	IGLD (175.81m)	
-6.612	2.407	4.45	3.25	BEACH	7.036
-10.682	3.915	3.66	2.46	BEACH	11.377
-15.446	5.665	2.95	1.75	BEACH	16.452
-20.982	7.729	2.51	1.31	BEACH	22.360
-29.141	10.777	1.95	0.75	BEACH	31.070
-38.724	14.327	1.88	0.68	BEACH	41.289
-46.229	17.040	1.55	0.35	BEACH	49.269
-54.790	20.235	1.14	-0.06	BEACH	58.407
-63.611	24.046	0.42	-0.78	LAKE BED	68.004
-66.251	24.448	0.25	-0.95	LAKE BED	70.618
-70.648	26.205	0.34	-0.86	LAKE BED	75.351
-74.499	27.779	0.29	-0.91	LAKE BED	79.510
-79.709	29.184	0.28	-0.92	LAKE BED	84.884
-80.765	30.121	0.37	-0.83	LAKE BED	86.199
-83.263	31.090	0.32	-0.88	LAKE BED	88.878
-86.813	32.407	0.31	-0.89	LAKE BED	92.665
-91.279	33.904	0.23	-0.97	LAKE BED	97.372
-92.336	34.458	0.32	-0.88	LAKE BED	98.556
-94.773	35.086	0.22	-0.98	LAKE BED	101.059
-95.580	34.908	0.14	-1.06	LAKE BED	101.755
-96.154	34.989	0.13	-1.07	LAKE BED	102.322
-97.386	35.991	0.05	-1.16	LAKE BED	103.824
-101.791	36.799	-0.18	-1.38	LAKE BED	108.239
-104.854	38.346	-0.28	-1.48	LAKE BED	111.646
-106.131	39.030	-0.17	-1.37	LAKE BED	113.080
-63.628	24.051		0.42	ICE TOP	68.022
-68.844	25.545		0.51	ICE TOP	73.430
-74.417	27.979		0.47	ICE TOP	79.503
-77.863	29.150		0.62	ICE TOP	83.141
-79.990	29.839		1.03	ICE TOP	85.374
-80.802	30.189		0.56	ICE TOP	86.257
-85.769	31.848		0.47	ICE TOP	91.491
-88.610	33.593		0.52	ICE TOP	94.764
-91.798	34.132		1.02	ICE TOP	97.938
-92.572	34.565		0.54	ICE TOP	98.815
-94.751	34.935		0.75	ICE TOP	100.986
-96.761	35.634		1.49	ICE TOP	103.114

PROFILE & DATA: OGDEN DUNES, WEST BEACH (WBR-3), INDIANA

Latitude/Longitude (UTM): 41°37'48"N/87°11'09"
(460855N/048468E)

Date: Feb. 15, 1989

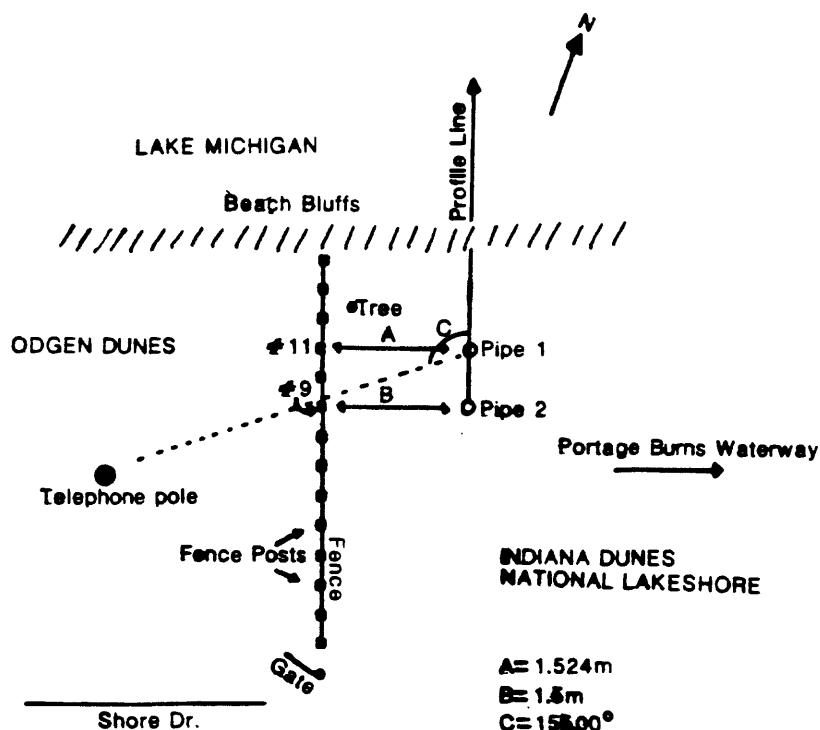
Time: 1100 -1230 hrs

Location: See attached sketch - The survey site is located east of a fence deliniating the eastern boundary between Indiana Dunes National Lakeshore and the community of Ogden Dunes at the end of Shore Drive. The profile is a repeat of Bill Wood's (Purdue University) WBR - 3 profile.

Horizontal Control: The instrument station was set up above Pipe 1 located 1.524 meters east of fence post #11. The profile is run shore normal using a turn angle of 180 originating from Pipe 2 located 1.5 meters east of fence post #9. The Northing and Easting grid was oriented with true north aligned offshore along the range markers using a hand held Brunton magnetic compass adjusted for the local declination (0°).

Vertical Control: Local lake level was not measured during the time of our survey. Lake levels for corresponding (1100-1230 hrs) hourly observations at Calumet Harbor gauging station were averaged; 176.22m, range 0.01m. Estimation for lake level at the time of survey is based on the lowest Ice Top measurement which is believed to be about 0.02m above lake level. Vertical control also exists from WBR-3 pipe benchmark which is 7.38 meters above Low Water Datum (Wood, Purdue Univ.). Because we failed to measure lake level, measured elevations of the lake bed and ice are believed accurate only to within 0.20 m.

Notes: All values reported in meters. Distance is the straight line distance from Pipe 1 (instrument station) to the measurement point (distance along the profile). Height represents the distance in meters above (+) and below (-) lake level (176.22m) at time of survey. Elevation represents the distance in meters above (+) and below (-) Low Water Datum, 1955 (175.81 m).



PROFILE DATA: OGDEN DUNES, WEST BEACH (WBR-3)
Date: Feb. 15, 1989
Time: 1100 -1230 hrs

NORTHING	EASTING	ELEVATION	HEIGHT	CODE	DISTANCE
1000.000	1000.000	7.38	6.97	Station	0.000
		0.41	0.00	Lake Level	
		0.00	-0.41	IGLD (175.81)	
994.115	1000.180	4.37	3.96	BEACH	5.888
987.384	1000.127	2.72	2.31	BEACH	12.617
983.427	999.929	2.34	1.93	BEACH	16.573
979.811	999.847	2.08	1.67	BEACH	20.190
976.724	999.658	1.90	1.49	BEACH	23.279
973.932	999.617	1.73	1.32	BEACH	26.071
971.088	999.548	1.50	1.09	BEACH	28.916
968.314	999.688	1.27	0.86	BEACH	31.688
965.121	999.699	1.06	0.64	BEACH	34.880
957.598	999.530	-0.06	-0.47	Lake Bed	42.405
955.034	1000.035	0.10	-0.31	Lake Bed	44.966
953.259	999.640	-0.18	-0.59	Lake Bed	46.742
950.377	999.905	-0.27	-0.68	Lake Bed	49.623
944.679	999.755	-0.18	-0.59	Lake Bed	55.322
939.403	999.863	-0.37	-0.78	Lake Bed	60.597
934.322	999.851	-0.31	-0.72	Lake Bed	65.678
929.720	999.892	-0.34	-0.75	Lake Bed	70.280
924.107	999.947	-0.43	-0.84	Lake Bed	75.893
919.750	999.859	-0.43	-0.84	Lake Bed	80.250
915.987	999.767	-0.52	-0.93	Lake Bed	84.013
913.133	999.734	-0.60	-1.01	Lake Bed	86.867
963.742	999.687		0.59	Ice Top	36.259
960.939	999.883		0.26	Ice Top	39.061
959.786	999.712		0.07	Ice Top	40.215
957.719	999.459		0.03	Ice Top	42.284
955.038	999.840		0.28	Ice Top	44.962
953.384	999.642		0.01	Ice Top	46.617
951.119	999.644		0.62	Ice Top	48.882

PROFILE & DATA: CHALET-ON-THE-LAKE (UM#7), MICHIGAN

Latitude/Longitude (UTM): 42°01'18"N/86°32'32"W
(465247N/053793E)

Date: Feb. 20, 1989

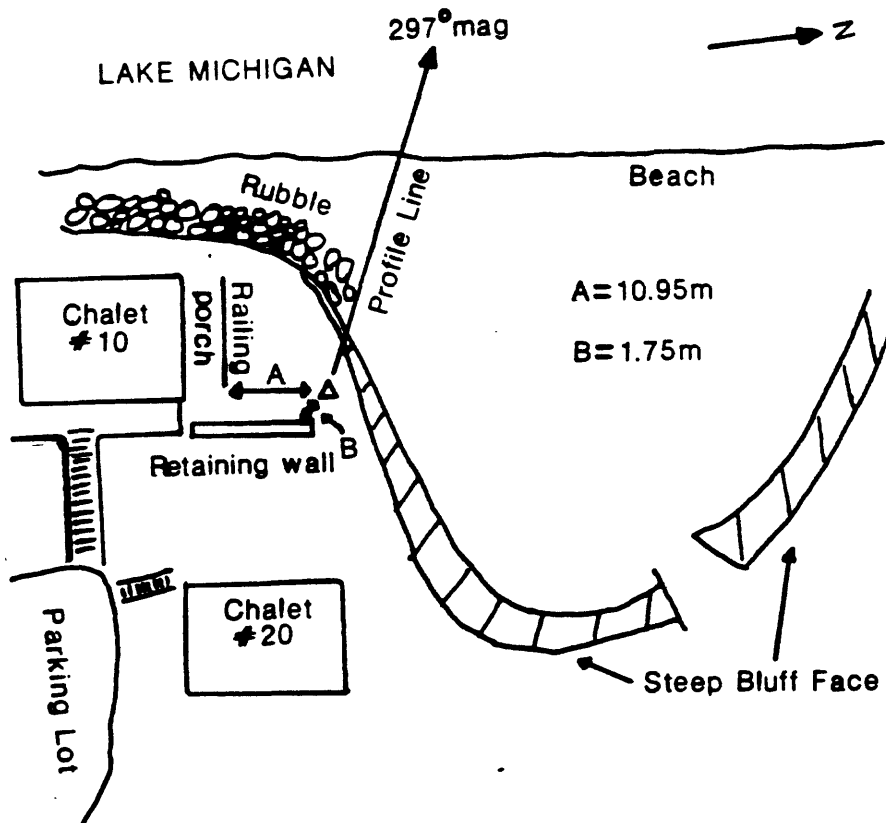
Time: 1000 - 1400 hrs

Location: See attached sketch - The survey site is located at the end of the "Chalet-on-the-Lake" access road, located just north of Township Park, Grand Mere Lakes, Michigan. The survey is a reoccupation of profile line UM-7 run by the University of Michigan.

Horizontal Control: The survey station was set up over a pre-existing bench mark located ~1.5m north of the railroad tie retaining wall off the NE corner of Chalet #10. The line was run along a magnetic bearing of 297 from the bench mark using a hand held Brunton magnetic compass adjusted for the local declination (0). The Northing and Easting grid was oriented with true north aligned to 84. This line has also been referenced to a well pipe located directly in front of Chalet #20.

Vertical Control: Local lake level was measured between 0800 and 1030 hrs on the 20th. Lake levels for corresponding hourly observations at Calumet Harbor and Luddington gauging stations (176.19m, range +0.05m, -0.06m at Calumet ; 176.12m, range +0.03m, -0.04 at Luddington) were interpolated with respect to site/gauging station proximity: Calumet (68%), Luddington (32%) thus yeilding an estimated lake level of 176.17m for the time of the survey. Measured elevations of the lake bed and ice are believed accurate to within 0.10m.

Notes: All values reported in meters. Distance is the straightline distance from the survey station to the measurement point. Height represents the distance in meters above (+) and below (-) lake level (176.17m) at time of survey. Elevation is the height in meters above the Low Water Datum, 1955 (175.81m).



PROFILE DATA: CHALET-ON-THE-LAKE (UM#7)

Date: Feb. 20, 1989

Time: 1000 - 1400 hrs

NORTHING	EASTING	ELEVATION	HEIGHT	CODE	DISTANCE
1014.169	1005.990	7.87	7.55	WELL PIPE	-14.267
1000.000	1000.000	5.19	4.87	Station (Benchmark)	0.000
956.985	972.007	0.31	0.00	LAKE LEVEL	50.200
		0.00	-0.31	IGLD (175.81m)	
989.807	994.198	1.15	0.83	BASE OF RUBBLE	11.306
987.410	992.823	0.95	0.64	BEACH	13.972
985.752	991.732	0.23	-0.08	LAKE BED	15.914
984.312	990.708	0.10	-0.22	LAKE BED	17.656
982.304	988.955	-0.01	-0.33	LAKE BED	20.314
978.231	985.843	-0.22	-0.53	LAKE BED	25.393
974.951	983.751	-0.26	-0.58	LAKE BED	29.188
971.122	981.343	-0.52	-0.84	LAKE BED	33.593
966.594	978.404	-0.30	-0.61	LAKE BED	38.866
963.523	976.360	-0.20	-0.52	LAKE BED	42.479
961.151	974.976	-0.38	-0.69	LAKE BED	45.130
959.229	973.556	-0.32	-0.64	LAKE BED	47.490
956.961	971.911	-0.52	-0.84	LAKE BED	50.254
953.733	969.724	-0.49	-0.80	LAKE BED	54.077
947.668	965.812	-0.97	-1.29	LAKE BED	61.117
938.899	960.266	-1.19	-1.50	LAKE BED	71.216
929.534	953.858	-1.27	-1.59	LAKE BED	82.343
919.394	947.545	-1.28	-1.59	LAKE BED	93.938
912.132	942.528	-1.12	-1.44	LAKE BED	102.594
906.530	940.391	-0.89	-1.20	LAKE BED	108.023
901.702	936.974	-0.95	-1.27	LAKE BED	113.834
894.695	933.087	-1.03	-1.34	LAKE BED	121.491
888.705	928.583	-1.34	-1.66	LAKE BED	128.887
879.621	922.234	-1.83	-2.14	LAKE BED	139.753
868.280	914.060	-2.49	-2.81	LAKE BED	153.493
854.126	905.463	-3.56	-3.88	LAKE BED	169.466
840.372	887.497	-4.32	-4.63	LAKE BED	191.971
814.956	878.462	-3.97	-4.29	LAKE BED	215.944
798.233	863.794	-3.84	-4.16	LAKE BED	238.068
783.016	853.692	-3.69	-4.00	LAKE BED	255.807
760.057	842.884	-3.02	-3.34	LAKE BED	279.250
739.081	831.674	-2.34	-2.66	LAKE BED	301.593
729.277	824.446	-2.52	-2.84	LAKE BED	313.506
987.548	992.820		1.01	ICE TOP	13.88
985.774	991.782		1.17	ICE TOP	15.863
984.249	990.485		0.41	ICE TOP	17.858
982.125	988.879		0.45	ICE TOP	20.495
978.094	985.782		0.80	ICE TOP	25.532
974.458	983.536		0.57	ICE TOP	29.687
973.019	982.533		0.81	ICE TOP	31.413
970.864	981.178		0.67	ICE TOP	33.892
969.793	980.518		0.83	ICE TOP	35.114
968.937	980.199		0.23	ICE TOP	35.943
966.598	978.398		0.73	ICE TOP	38.868
964.519	977.116		0.81	ICE TOP	41.241
963.360	976.402		0.62	ICE TOP	42.563
961.047	974.925		1.31	ICE TOP	45.239
959.047	973.438		1.27	ICE TOP	47.702
956.824	971.708		0.20	ICE TOP	50.494
953.663	969.760		0.03	ICE TOP	54.100
947.555	965.763		0.07	ICE TOP	61.232
938.799	960.048		0.05	ICE TOP	71.441
938.550	960.031		0.08	ICE TOP	71.628
929.424	953.691		0.11	ICE TOP	82.539
919.266	947.475		0.12	ICE TOP	94.077
912.148	942.652		0.23	ICE TOP	102.494
908.789	940.758		0.73	ICE TOP	106.190
907.682	940.813		0.42	ICE TOP	106.920
907.020	940.773		0.64	ICE TOP	107.408
906.629	940.421		0.16	ICE TOP	107.933
905.082	939.515		0.64	ICE TOP	109.659
903.679	938.786		0.17	ICE TOP	111.157
902.932	937.978		0.36	ICE TOP	112.257
901.844	937.112		0.09	ICE TOP	113.636
894.941	933.087		0.16	ICE TOP	121.321
888.711	928.748		0.12	ICE TOP	128.764
879.883	922.516		0.02	ICE TOP	139.368
868.492	914.168		0.10	ICE TOP	153.268
854.434	905.618		0.09	ICE TOP	169.142
840.976	887.690		0.09	ICE TOP	191.415

APPENDIX 2-A - 1990 Ice and sediment sample notes

Field observations and notes

- Samples 1 thru 20, Beach and lakebed sediment samples collected at Gillson Beach, at Wilmette Illinois February 11, 1990. No ice was present at this time. (See Figure 9 for locales.)

SLM90-1: Upper beach surface along the center profile line in the Gillson survey grid.

SLM90-2: Lower beach surface along the center profile line in the Gillson survey grid.

SLM90-3: Beach surface at the berm where the beach was slightly frozen at the top of the swash zone along the center profile line in the Gillson survey grid.

SLM90-4: Upper swash zone surface along the center profile line in the Gillson survey grid.

SLM90-5: Lower swash zone surface along the center profile line in the Gillson survey grid.

SLM90-6: Offshore surface sediment along the center profile line in the Gillson survey grid.

SLM90-7: Furthest offshore surface sediment along the center profile line in the Gillson survey grid.

SLM90-8: Upper beach surface along the "south 6" profile line in the Gillson survey grid.

SLM90-9: Lower beach surface along the "south 6" profile line in the Gillson survey grid.

SLM90-10: Beach surface at the berm (the beach was slightly frozen at the top of the swash zone) along the "south 6" profile line in the Gillson survey grid.

SLM90-11: Upper swash zone surface along the "south 6" profile line in the Gillson survey grid.

SLM90-12: Lower swash zone surface along the "south 6" profile line in the Gillson survey grid.

SLM90-13: Offshore surface sediment along the "south 6" profile line in the Gillson survey grid.

SLM90-14: Furthest offshore sediment sample along the "south 6" profile line in the Gillson survey grid.

SLM90-15: Upper beach surface along the "north 6" profile line in the Gillson survey grid.

SLM90-16: Lower beach surface along the "north 6" profile line just above the berm in the Gillson survey grid.

SLM90-17: Beach surface at the berm where the beach was frozen at the top of the swash zone (ice was slightly buried at this location) along the "north 6" profile line in the Gillson survey grid.

SLM90-18: Lower swash zone surface along the "north 6" profile line in the Gillson survey grid.

SLM90-19: Offshore surface sediment along the "north 6" profile line in the Gillson survey grid.

SLM90-20: Furthest offshore sample along the "north 6" profile line in the Gillson survey grid.

- Samples 21 through 35 taken at Point Beach State Forest on Feb. 13.

The ice foot was approximately 17m wide in the morning. The wind was blowing coast-parallel from

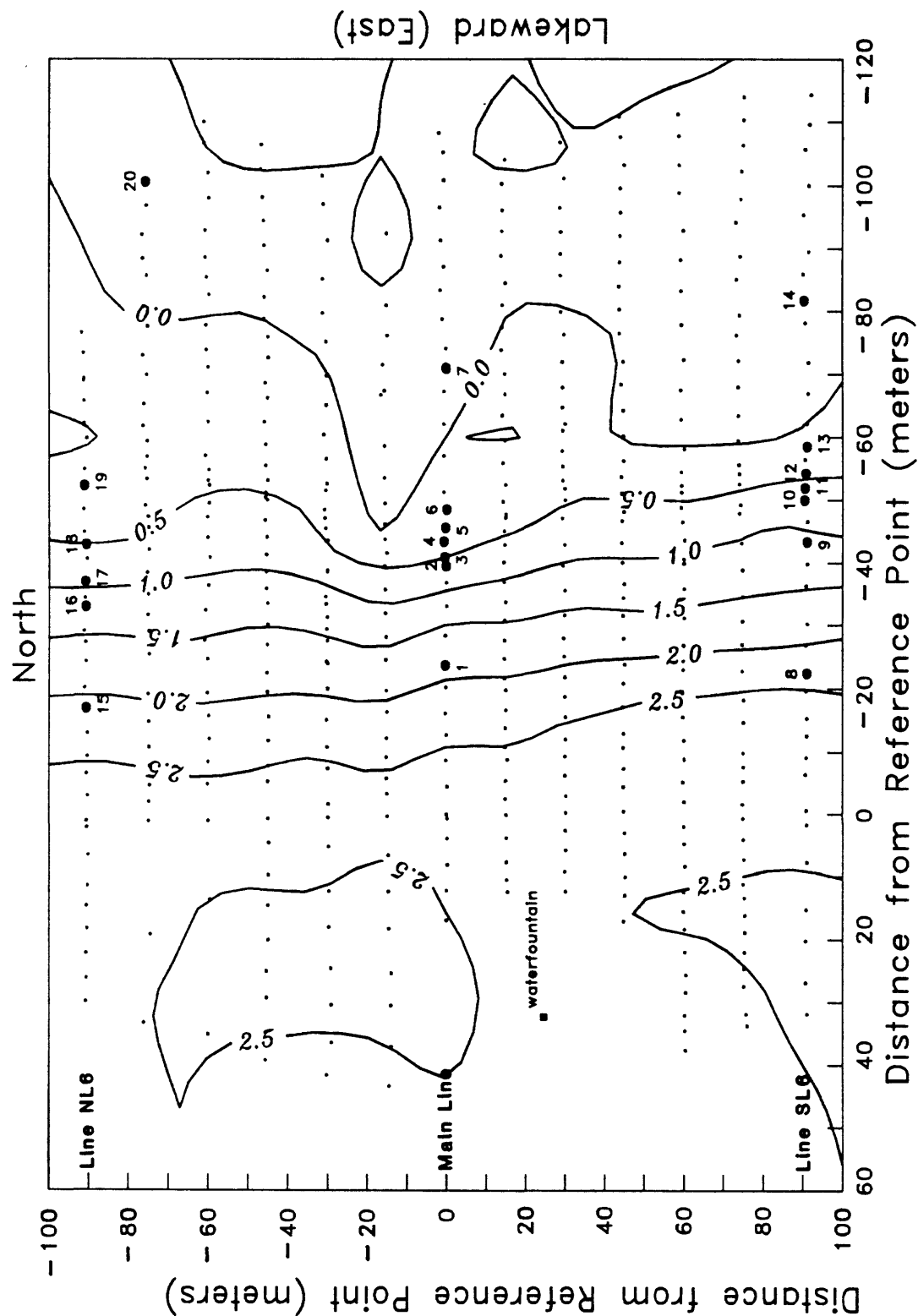


Figure 9. Topographic map of Gillson Beach shoreface showing data points and SLM90 sample locales from 2/11/90.

the NNW at 12 knots, after a night of stronger SE winds, which had elevated lake level at this site perhaps 40cm. We do not know when the wind shifted to northerly. At about 0900 the littoral drift was northerly, moving ice along in an 8m wide brash/slush belt at a rate of about 26cm/sec. This belt of ice contained only 10-20% slush ice. Later, at 1040, the littoral drift had shifted southerly, moving at about 60cm/sec. in a 6m wide brash/slush belt of about 50% slush. This change may be a delayed result of wind changes since last night.

SLM90-21: Clean appearing ice platelets from the top of the outer ice ridge that had been recently thrown up onto the ridge. The dimensions of the platelets were 2-5cm diameter by 1cm thick. The sample was taken with a "push tube" (diameter of 7.9cm x 30cm long 1470cc). Approximately 5% of sand spilled along with 50ml of water during processing. (750ml meltwater).

SLM90-22: Piece of brash ice from the outer ice ridge. This sample had also been recently thrown on top of the ridge. Its dimensions were about 25cm x 5cm x 12cm. It was obviously very dirty, but characteristic of the brash pieces that were drifting to the north. (1375ml melt).

SLM90-23: Slush ice from brash/slush belt collected in two scoops with the dip net from the outer edge of the ice complex. (4325ml melt).

SLM90-24: Composite sample: fist-size chunks of about 20 cakes of the hard, dense brash ice that was moving to the south. The brash was all collected within 30cm of the ice edge. None were larger than 30cm in diameter. (4380ml melt).

SLM90-25: Mostly solid ice core from the ice lagoon at Point Beach. Volume of the ice core is 1060cc. Length=24cm. (980ml melt).

SLM90-26: Ice core from ice cone on inner edge of ice ridge at Point Beach profile site. Volume of ice core= 3444cc. Something seems wrong with this sample - too much melt water for the volume of ice. Length=78cm. (3440ml melt).

SLM90-27: Ice core from small outer ice ridge which calculates to a volume of 3533cc. There were several voids as the core was drilled to more than a meter. (A hole 30 cm from this one only recovered 29cm of core). Length=80cm. (1990ml meltwater).

SLM90-28: Sediment sample from the lakebed 5m from the shoreline obtained by coring through the ice foot with the ice auger.

SLM90-29: Sediment sample from the lake bed approximately 8m from the shoreline at Point Beach.

SLM90-30: Sediment sample from the beach 3m onshore from the inshore edge of the ice foot at Point Beach.

SLM90-31: Sediment sample of the drifting aeolian sand on the upper part of the beach at Point Beach.

SLM90-32: A sample of platelet ice at Point Beach collected along with #33 and #34 at about 1600 hrs with the dip net in several scoops. This ice occurred in a belt 3m wide, traveling south at a rate of 57cm/sec (90m/2:37min). (5750 ml melt).

SLM90-33: Subsamples of 20 samples of brash ice taken at the same time as #32 and #34. Representative of what was drifting at Point Beach in the 3m wide brash/slush belt. (5475ml melt).

SLM90-34: Subsamples taken from five of the dirtiest large brash pieces drifting south at a rate of 57cm/sec in the 3m wide belt at Point Beach. Collected with #32 and #33. (13,350ml melt).

SLM90-35: Slush ice sample taken with the dip net at Neshotah Park beach just northeast of Two

Rivers, Wisconsin. There was a small ice foot which the swash did not quite reach. The water out to 7-8m distance was filled with slush masses that appeared very dirty. The 30 cm waves did not appear to be hampered in rolling into the shoreline. (1645ml melt).

- Samples 36 through 41 taken Feb. 14, 1990

SLM90-36: Point Beach State Park sediment sample taken on the crest of the outer most bar surveyed in morning.

SLM90-37: Point Beach State Forest ice sample collected 40cm below the lake surface in the swash zone. This ice cake was neutrally buoyant. Because of the very high volume of waterlogged sand in the bucket after decanting when compared to other samples, the meltwater volume is lower than the true amount. (180ml melt)

SLM90-38: Ice core from the nearshore ice ridge at the Algoma Wayside, about 2 miles south of Algoma, Wisconsin. Core was divided into 4 sections based on stratigraphy and cohesiveness. (0-17 cm = 460ml melt) (17-36cm = 470ml melt) (36-53cm = 450 ml melt) (53-95cm = 1210ml melt).

SLM90-39: Ice core from the nearshore ice ridge at the Algoma Wayside. Core was divided into upper and lower segments. (0-40cm = 1010ml melt) (40-83cm = 1100ml melt)

SLM90-40: Sample taken of dirty brash ice drifting south in the 12m wide brash/slush belt at the Algoma Wayside. The dirty brash represents about 1-2% of the ice volume in the generally cleaner brash/slush belt. (750ml melt)

SLM90-41: Slush ice sample dipped from the 12m wide brash/slush belt drifting south at the Algoma Wayside. (2150ml melt)

- Samples 42 through 48 collected on Feb 15 1990 at the Two Creeks County Park, near the town of Two Creeks, Wisconsin.

SLM90-42: Two Creeks County Park ice core collected 2m landward of an active ice volcano. "Push tube" was inserted horizontally with the top of the tube about 5cm below the top of the ice. After jamming tube in, it was dug out by hand; a very good ice density sample. Core volume (1460cc) (910ml meltwater)

SLM90-43: Dip net full of slush ice overwash collected on same ice volcano as sample #42. Collected within 5 minutes of # 42, at about 1045. (1340ml melt)

SLM90-44: "Push tube" inserted horizontally into the ice lagoon about 5m from shore. Water depth was 60cm at this site, and top of core tube was 2cm below top of ice surface. Core volume (1460cc) (1090ml melt)

SLM90-45: A 30cm long "push tube" sample was taken from an active ice volcano, shortly after the overwash, within 1m of the orifice. The tube was oriented vertically. This sample sheds light on the density of the ice foot, and more importantly, on the filtration mechanism, when the sediment concentration is compared to that of the falling slush in #46. The volcano was about 3m above lake level. The volume of this core with inclined sediment stratification was 1460ml. (950ml melt)

SLM90-46: Collected at the same place as #45 with a Dip net held out over the orifice to catch the falling slush. The sediment concentration of this sample is to be compared to that of the volcano (#45) to learn about filtration. (1730ml melt)

SLM90-47: Sample taken about 200m south of Two Creeks State Park from the brash/slush belt just lakeward of the ice ridge. Sampled with a bucket to get both water and slush ice. (3750ml melt)

SLM90-48: Same location at #47 but sampled with dip net so that the water drained out. (1280ml melt)

- Samples 49 through 58 were taken at Point Beach State Forest on Feb. 16.

Series of push tube cores from the ice foot at profile site in Point Beach State Forest, Wisconsin. Cores are arranged in a "T" pattern with cores 50-52 from onshore to offshore and cores 53-58 at parallel to the shore along the crest of the ridge. At core site 49 on the outer edge of the ice ridge 10 cm of dirty ice was scraped off before coring. Core 58 was taken at the same location but one hour later after the site had been overwashed with water and slush at a rate of 2-3 overwashes per minute. The top and bottom of the core holes were surveyed for location and elevation (see daily survey log).

SLM90-49: Push tube sample. Collected after smoothing top of ice ridge to check for filtering (Same location as #58). Length 79cm. Appears to be dirtiest near the bottom. (0-10cm = 405ml melt) (10-30cm = 810ml melt).

SLM90-50: Push tube sample. Collected from the inner part of the ice foot after removing about 5cm of snow. Length = 28cm. (0-10cm = 250ml melt) (10-28cm = 490ml melt).

SLM90-51: Collected 40cm landward of ice ridge after removing about 5cm of snow. Length = 53cm. (0-10cm = 355ml melt) (10-28cm = 570ml melt) (28-56cm = 680ml melt)

SLM90-52: Push tube sample. Collected at inner edge of ice ridge. Bottom 3cm was very sandy. We discarded the bottom 5cm of the push tube before sampling as it looked like probable cored lakebed. The bottom 30% looks cleaner than the core above. Length = 75cm. (0-10cm = 220ml melt) (10-40cm = 885ml melt) (40-70cm = 1110ml melt)

SLM90-53: Push tube sample. Collected within 60cm of lakeward edge of ice, on survey line. Length = 94.5cm. (0-10cm = 390ml melt) (10-20cm = 355ml melt) (20-30cm = 345ml melt) (30-40cm = 345ml melt) (40-50cm = 325ml melt) (50-60cm = 325ml melt) (60-70cm = 350ml melt) (70-80cm = 440ml melt) (80-94cm = 560ml melt).

SLM90-54: Push tube sample. Sample was collected on the ice ridge within 60cm of the ice edge. Position was north of survey line. Length = 98cm. (0-10cm = 350ml melt) (10-55cm = 1315ml melt) (55-98cm = 1590ml melt).

SLM90-55: Push tube sample. Collected on the ice ridge within 60cm of the ice edge. Position was about 12m north of survey line. Length = 90cm. (0-10cm = 395ml melt) (10-50cm = 1225ml melt) (50-90cm = 1600ml melt).

SLM90-56: Push tube sample. Collected on ice ridge about 1m landward of outer ice edge. Didn't sample the bottom 5cm of ice in this region, because the core tube wasn't long enough. Position was about 5m south of survey line. Length = 98cm. (0-10cm = 400ml melt) (10-55cm = 1400ml melt) (55-98cm = 1575ml melt).

SLM90-57: Push tube sample. Collected on the ice ridge about 50cm landward of ice edge. Didn't sample the bottom 10cm of ice here. Length = 93cm. (0-10cm = 340ml melt) (10-45cm = 1130ml melt) (45-93cm = 1680ml melt).

SLM90-58: Push tube sample. Collected from top of ice ridge, within 10cm (shore parallel) of sample # 49, to test the ice filtration theory. Sample was collected 1 hour after core #49. Length=85cm. (0-10cm = 310ml melt) (10-30cm = 700ml melt).

- Samples 59 through 65 taken at Kohler-Andrae State Park on Feb. 17.

SLM90-59: Kohler-Andrae State park push tube core from slush ice newly attached to the nearshore ice

ridge, ie. newly formed nearshore ice. Taken at 0830hr. Length = 72cm. (1600ml meltwater)

SLM90-60: Barely floating brash ice from outer edge of brash/slush belt at Kohler-Andrae State Park. (1740ml melt)

SLM90-61: More floating brash ice with sediment: representative of the less than 1% of drifting ice. This cake was originally drifting with a rind of soft slush (cleaner) which was brushed off before sampling. (1040ml melt)

- Samples 62-65 were taken with the "Transient Layer Sampler" as a wave crest passed with the tube openings facing offshore. They were then strained through a sieve to separate the water and ice portions.

SLM90-62: Sample series at 60cm water depth 11m from shore and 1m from ice edge. Water (W) and ice (I) samples were taken at 10cm and 44.4cm above the lakebed. (10cm W = 748ml) (10cm I = 230ml melt) (44.4cm W = 560ml) (44.4cm I = 580cm melt).

SLM90-63: Sample series at 90cm water depth 15.5m from shore and 5.5m from ice edge. Water (W) and ice (I) samples were taken at 10cm(W), 44.4cm(W&I), and 84cm(W&I) above the lakebed. (10cm W = 990ml) (44.4cm W = 855ml) (44.4cm I = 510ml melt) (84cm W = 640ml) (84cm I = 340ml melt).

SLM90-64: Sample series at 105cm water depth 25.5m from shore and 12.5m from ice edge. Water (W) and ice (I) samples were taken at 10cm(W), 44.4cm(W&I), and 84cm(W&I) above the lakebed. (10cm W = 730ml) (44.4cm W = 1090ml)(44.4cm I = 54ml melt) (84cm W = 552ml) (84cm I = 222ml melt).

SLM90-65: Sample series at 90cm water depth 28.5m from shore 18.5m from ice edge and 2m landward of the outer edge of the brash/slush belt. Water (W) and ice (I) samples were taken at 10cm(W), 44.4cm(W&I), and 84cm(W&I) above the lakebed. (10cm W = 950ml) (44.4cm W = 1040ml) (44.4cm I = 12ml melt) (84cm W = 290ml) (84cm I = 128ml melt).

- Samples 66 through 68 obtained at Kohler-Andrae State Park on Feb. 19.

SLM90-66: Dirty ice (anchor ice?) 2-3cm thick dislodged from the bottom just lakeward of the ice ridge. Part of a 30-40cm thick ice mass that was frozen to the bottom. With the offshore wind dislodged cakes were moving lakeward. (610ml meltwater).

SLM90-67: Slush ice sampled with the dip net after kicking the bottom to dislodge billowy clouds of what we tentatively think was frazil and sediment suspensions. (1280ml melt).

SLM90-68: Samples from two pieces of typical brash ice, floating away from the ice foot toward deep water, collected 100m lakeward of the ice ridge. From the aircraft we observed long and narrow streamers of drifting ice extending several kilometers offshore due to the offshore winds. (2105ml melt).

- Samples 69 through 77 obtained at Kohler-Andrae State Park on Feb. 20, between 0930 and 1100 hrs.

SLM90-69: Water sample adjacent to ice ridge. (940ml total)

SLM90-70: Representative slush/brash and water sample taken with a bucket about 2m lakeward of ice ridge. (6040ml meltwater).

SLM90-71: Surface water 20m from ice ridge. Soft anchor ice was dislodged from bottom and sampled with the trap sampler after waiting 10 seconds for it to settle. (360ml melt).

SLM90-72: An anchor ice mass dislodged from the bottom and immediately sampled with the trap sampler. This sample was strained by sieve into water (W) and ice (I) portions. (72 W = 425ml) (72 I = 160ml melt).

SLM90-73: Trap sampler was inserted into soft anchor ice on the lakebed about 2m lakeward of the ice ridge. This sample was strained into water (W) and ice (I) portions. (73 W = 425ml) (73 I = 260ml melt).

SLM90-74: Sediment taken from the offshore bar, about 30m from ice ridge.

SLM90-76: Collected with Kraus's Streamer at 1100hrs. Taken by pulling the streamer through about 50m of still water 30m offshore while dislodging anchor ice and bottom material (mostly micas?) ahead of streamer.

SLM90-77: Collected with Kraus's Streamer about 30m offshore in 70cm of water. The streamer was towed about 100m at 10cm below the surface without disturbing the lakebed.

- Samples 78-95 were offshore ice and sediment samples taken from the *R.V. Neeskay* cruise on February 20, 1990 Between Milwaukee and Port Washington (Figure 10).

SLM90-78: <3cm thick lens of dense ice with sand cover: submerged under pancake ice. Collected at Station 11.

SLM90-79: 8 small pieces of ice with sand, and up to 5cm from patch of pancake ice. Collected at Station 6.

SLM90-80: Clear piece of pancake ice with some sand. Collected at Station 2.

SLM90-81: Part of a large cake of slushy, sandy ice. Mostly fine grained. Collected at Station 8.

SLM90-82: A turbid ice cake. Collected at Station 2.

SLM90-83: One small piece of sandy, pancake ice collected from an extensive field of pancake ice. Collected at Station 1.

SLM90-84: Faintly banded, slushy, dirty ice containing sand and pebble. Representative sample of sample 93 which was melted and decanted. Collected at Station 15.

SLM90-85: Parts of 50cm diameter cake of slushy, sandy ice.

SLM90-86: Several sandy, pancake ice pieces. Collected at Station 3 & 4.

SLM90-87: Small cakes of slushy, dirty ice with sand sized sediment. Collected at Station 10.

SLM90-88: Small pieces of sandy pancake ice from pancake ice patch. Collected at Station 5.

SLM90-89: Part of the slushy center of a dirty ice pancake. Collected at Station 9.

SLM90-90: Sand from the surface of underrafted ice pancake. Collected at Station 12.

SLM90-91: Pebbles from the surface of underrafted pancake ice. Collected at Station 12.

SLM90-92: Pancake ice sample. Collected at Station 6.

SLM90-93: Sample of sediment from under-raftered pancake ice. Collected at Station 15.

February 1990 *Neeskay* Cruise Station Locations

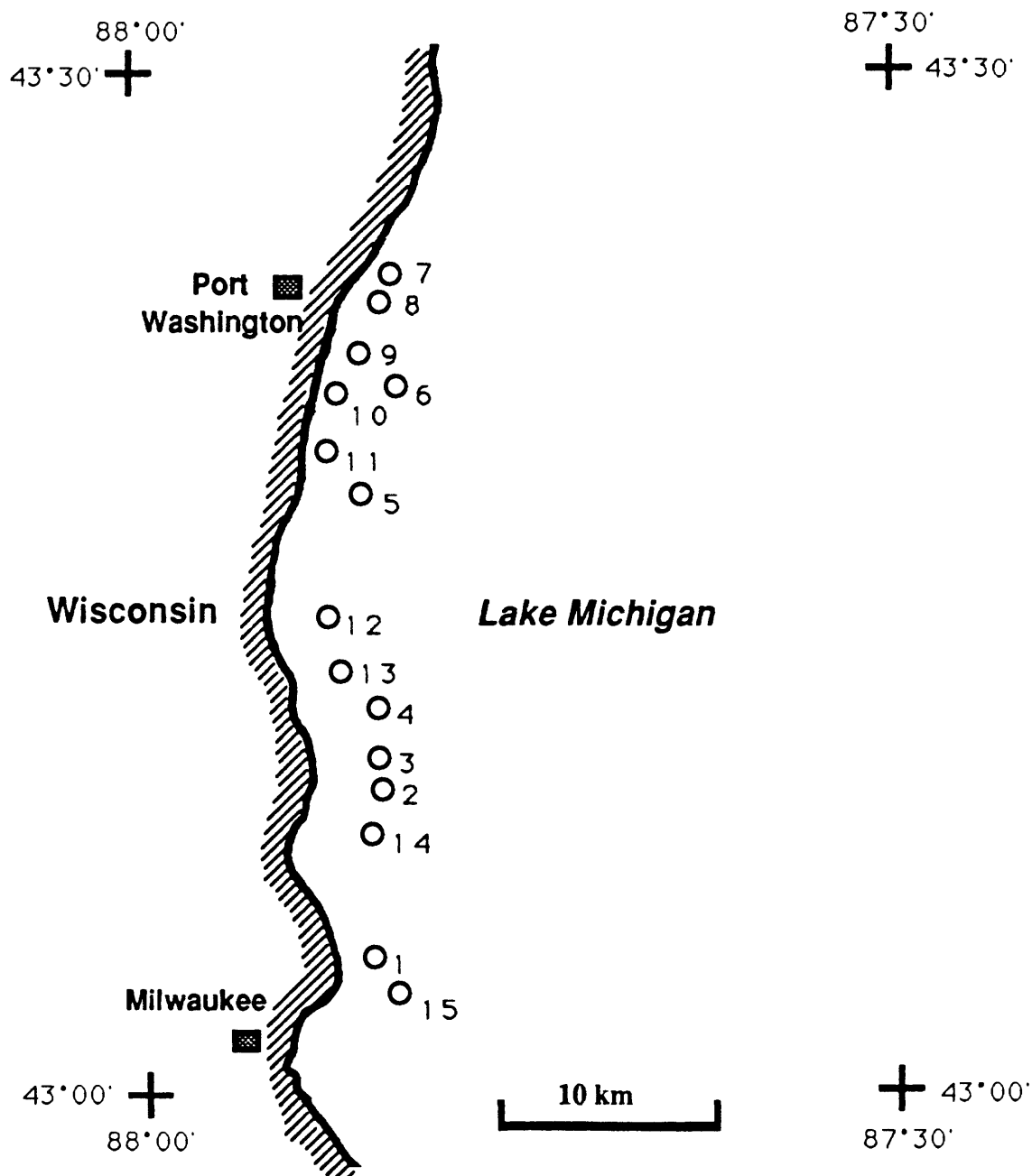


Figure 10. Locality map showing R/V *Neeskay* cruise station numbers.

SLM90-94: Sand and pebbles washed from submerged pancake ice. Collected at Station 14.

SLM90-95: Thin pancake ice with surficial layer of sand and pebbles. Collected at Station 13.

APPENDIX 2-B

Appendix 2-B is a table containing sediment characteristics of samples taken in February 1990.

In performing calculations for the 1990 samples certain assumptions and equations were used which should be explained here. The main assumptions we made were:

Water density= 1gm/cc= 1

Sediment density= 2.60gm/cc

Ice Density= .71gm/cc

The following equations were used to account for sediment volume:

Sed. vol.= wt. sed./dens. sed.= wt. sed./2.6

Vol. of sed+water= sed. vol+.3(sed. vol.)

or (Wt. sed./dens. sed.)+.3(wt. sed./dens. sed.)

Sample Information

Samp. No.	JD	Site	Sample Type	Location	Descrip.	Elev. (m)	Vol. of Melt (l)	Vol. of Samp. (l)	Weight of Sed. (gm)	Density of Ice (gm/cc)	Sed. of Water (gm/l)	Sed. Conc. of Ice (gm/l)	Misc. Notes
1	042	Gillson	Sed.	Upper beach	Sand	0.848			274.85				
2	042	Gillson	Sed.	Lower beach	Sand	-0.015			303.53				
3	042	Gillson	Sed.	Beach:berm	Sand	-0.187			245.7				Swash top
4	042	Gillson	Sed.	Upper swash zone	Sand	-0.576			437.61				
5	042	Gillson	Sed.	Lower swash zone	Sand	-0.891			335.91				
6	042	Gillson	Sed.	Lakebed	Sand	-0.994			295.51				
7	042	Gillson	Sed.	Lakebed	Sand	-1.081			152.13				
8	042	Gillson	Sed.	Upper beach	Sand	1.186			190.59				
9	042	Gillson	Sed.	Lower beach	Sand	0.337			204.15				
10	042	Gillson	Sed.	Beach:berm	Sand	-0.055			363.82				Ice edge
11	042	Gillson	Sed.	Upper swash zone	Sand	-0.539			346.71				
12	042	Gillson	Sed.	Lower swash zone	Sand	-0.760			243.23				
13	042	Gillson	Sed.	Lakebed	Sand	-1.027			399.98				
14	042	Gillson	Sed.	Lakebed	Sand	-1.075			269.35				
15	042	Gillson	Sed.	Upper beach	Sand	1.123			276.89				Mid beach
16	042	Gillson	Sed.	Lower beach	Sand	0.471			204.19				Aft berm
17	042	Gillson	Sed.	Beach:berm	Sand	-0.056			318.11				Top swash
18	042	Gillson	Sed.	Lower swash zone	Sand	-0.604			375.67				Swash ft.
19	042	Gillson	Sed.	Lakebed	Sand	-0.870			323.01				
20	042	Gillson	Sed.	Lakebed	Sand	-1.449			316.57				
21	044	Pt. Beach	Fast Ice	Ice ridge: top	Platelets		0.75		1.0288		1.37		
22	044	Pt. Beach	Drift Ice	Brash/Slush belt	Dirty		1.375		13.54		9.80		
23	044	Pt. Beach	Drift Ice	Brash/Slush belt	Slush		4.325		7.65		1.77		
24	044	Pt. Beach	Drift Ice	Brash/Slush belt			4.38		27.31		6.22		30cm from edge
25	044	Pt. Beach	Ice core	Ice lagoon		-0.679	0.98	1.06	1.7834	0.92	1.82	1.68	Elev.=bot.
26	044	Pt. Beach	Ice core	Ice ridge: inner edge		-0.691	3.44	3.444	6.14	1.00	1.78	1.78	Elev.=bot.
27	044	Pt. Beach	Ice core	Outer ice ridge		-0.261	1.99	3.533	6.52	0.56	3.27	1.85	Elev.=bot.
28	044	Pt. Beach	Sed.	Lakebed:5m from shore					67.74				
29	044	Pt. Beach	Sed.	Lakebed:8m from shore	Sand				68.09				
30	044	Pt. Beach	Sed.	Beach:3m from shore	Sand				84.51				
31	044	Pt. Beach	Sed.	Upper beach	Sand				135.2				
32	044	Pt. Beach	Drift Ice	Brash/Slush belt	Slush		5.75		3.07		0.53		3m ice-belt
33	044	Pt. Beach	Drift Ice	Brash/Slush belt	Brash		5.475		18.94		3.45		3m ice-belt
34	044	Pt. Beach	Drift Ice	Brash/Slush belt	Brash		13.35		707.21		51.61		3m ice-belt
35	044	Neshotah	Drift Ice	Brash/Slush belt	Slush		1.645		167.78		97.04		3m ice-belt
36	045	Pt. Beach	Sed.	Lakebed:outer bar	Sand				212.31				Crest of bar
37	045	Pt. Beach	Ice	Swash zone	Brash		0.18		75.2		345.59		
38	045	Algoma	Ice core	Inner ice ridge									
0-17cm													
17-36cm													
36-53cm													
53-95cm													
39	045	Algoma	Ice core	Inner ice ridge									
0-40													
40-83													
40	045	Algoma	Drift Ice	Brash/Slush belt	Dirty Brash		1.01	1.7664	3.45	0.57	3.41	1.95	12m brash-belt
41	045	Algoma	Drift Ice	Brash/Slush belt	Slush		1.1	1.89888	7.79	0.58	7.06	4.10	12m brash-belt
							0.75		21.18		27.85		
							2.15		0.6418		0.30		

Samp. JD No.	Site	Sample Type	Location	Descrip.	Elev. (m)	Vol. of Melt (l)	Vol. of Samp. (l)	Weight of Sed. (gm)	Density of Ice (gm/cc)	Sed. Conc. of Water (gm/l)	Sed. Conc. of Ice (gm/l)	Misc. Notes
42	046	2 Creeks	Push tube	Ice ridge	Horiz. sect.	0.91	1.46976	39.1	0.62	42.06	26.60	Active Volcano
43	046	2 Creeks	Ice	Slush Overwash		1.34		38.62		28.41		
44	046	2 Creeks	Push tube	Ice lagoon	Horiz. sect.	1.09	1.46976	1.9093	0.74	1.75	1.30	Active Volcano
45	046	2 Creeks	Push tube	Ice ridge	Vert. sect.	0.95	1.42071	11.17	0.67	11.69	7.86	Active Volcano
46	046	2 Creeks	Ice	Ice ridge	Slush Overwash	1.73		12.47		7.18		Active Volcano
47	046	2 Creeks	Ice	Brash/Slush belt	Slush w/ H2O	3.75		6		1.60		
48	046	2 Creeks	Ice	Brash/Slush belt	Slush only	1.28		3.7		2.89		
49	047	Pt. Beach	Push tube	Ice ridge:outer edge	Vert. sect.	1.076	0.405	0.4902	0.83	28.69	24.05	Elev.=top
50	047	Pt. Beach	Push tube	Ice foot:inner edge	Vert. sect.	0.129	0.81	0.9804	0.83	22.44	18.75	Elev.=bot.
51	047	Pt. Beach	Push tube	Ice foot	Vert. sect.	0.957	0.25	0.4902	0.51	36.21	18.81	Elev.=top
52	047	Pt. Beach	Push tube	Ice ridge:inner edge	Vert. sect.	0.634	0.49	0.88236	0.56	71.64	41.26	Elev.=bot.
53	047	Pt. Beach	Push tube	Ice ridge:outer edge	Vert. sect.	1.084	0.355	0.4902	0.73	25.25	18.52	Elev.=top
54	047	Pt. Beach	Push tube	Ice ridge:outer edge	Vert. sect.	0.478	0.68	1.37256	0.65	36.73	24.17	Elev.=bot.
55	047	Pt. Beach	Push tube	Ice ridge:outer edge	Vert. sect.	1.103	0.22	0.4902	0.45	79.48	37.15	Elev.=top
56	047	Pt. Beach	Push tube	Ice ridge:outer edge	Vert. sect.	0.885	1.4706	39.79	0.60	43.97	27.06	Elev.=bot.
57	047	Pt. Beach	Push tube	Ice ridge:outer edge	Vert. sect.	0.319	1.11	1.4706	0.76	69.10	54.02	Elev.=bot.
58	047	Pt. Beach	Push tube	Ice ridge:outer edge	Vert. sect.	1.256	0.39	0.4902	0.80	84.41	70.11	Elev.=top
59	047	Pt. Beach	Push tube	Ice ridge:outer edge	Vert. sect.	0.355	0.4902	10.03	0.73	27.86	20.46	
60	047	Pt. Beach	Push tube	Ice ridge:outer edge	Vert. sect.	0.345	0.4902	9.49	0.71	27.13	19.36	
61	047	Pt. Beach	Push tube	Ice ridge:outer edge	Vert. sect.	0.345	0.4902	15.57	0.71	44.13	31.76	
62	047	Pt. Beach	Push tube	Ice ridge:outer edge	Vert. sect.	0.325	0.4902	13.41	0.67	40.43	27.36	
63	047	Pt. Beach	Push tube	Ice ridge:outer edge	Vert. sect.	0.325	0.4902	9.24	0.67	28.03	18.85	
64	047	Pt. Beach	Push tube	Ice ridge:outer edge	Vert. sect.	0.35	0.4902	10.25	0.72	28.86	20.91	
65	047	Pt. Beach	Push tube	Ice ridge:outer edge	Vert. sect.	0.44	0.4902	13.79	0.90	30.86	28.13	
66	047	Pt. Beach	Push tube	Ice ridge:outer edge	Vert. sect.	0.186	0.56	0.68648	0.82	1.00	58.75	Elev.=bot.
67	047	Pt. Beach	Push tube	Ice ridge:outer edge	Vert. sect.	1.288	0.35	0.4902	0.72	1.00	55.08	Elev.=top
68	047	Pt. Beach	Push tube	Ice ridge:outer edge	Vert. sect.	1.315	2.2059	59.38	0.60	44.16	26.92	
69	047	Pt. Beach	Push tube	Ice ridge:outer edge	Vert. sect.	0.222	1.59	2.10786	0.76	46.68	36.06	Elev.=bot.
70	047	Pt. Beach	Push tube	Ice ridge:outer edge	Vert. sect.	1.195	0.395	0.4902	0.81	91.86	77.58	Elev.=top
71	047	Pt. Beach	Push tube	Ice ridge:outer edge	Vert. sect.	1.225	1.9608	39.01	0.63	31.35	19.89	Elev.=bot.
72	047	Pt. Beach	Push tube	Ice ridge:outer edge	Vert. sect.	0.192	1.6	1.9608	0.82	62.77	52.88	Elev.=bot.
73	047	Pt. Beach	Push tube	Ice ridge:outer edge	Vert. sect.	1.287	0.4	0.4902	0.82	81.12	68.99	1m landward
74	047	Pt. Beach	Push tube	Ice ridge:outer edge	Vert. sect.	0.225	1.575	1.7157	0.64	56.98	37.22	Elev.=top
75	047	Pt. Beach	Push tube	Ice ridge:outer edge	Vert. sect.	1.282	0.34	0.4902	0.92	60.52	57.29	Elev.=bot.
76	047	Pt. Beach	Push tube	Ice ridge:outer edge	Vert. sect.	1.13	1.7157	38.54	0.70	54.25	38.68	Elev.=top
77	047	Pt. Beach	Push tube	Ice ridge:outer edge	Vert. sect.	0.223	1.68	2.35296	0.66	33.53	22.46	Elev.=bot.
78	047	Pt. Beach	Push tube	Ice ridge:outer edge	Vert. sect.	0.31	0.4902	26.36	0.72	44.73	32.67	Elev.=bot.
79	047	Pt. Beach	Push tube	Ice ridge:outer edge	Vert. sect.	0.7	0.9804	20.75	0.64	81.56	53.77	50cm landward
80	047	Pt. Beach	Push tube	Ice ridge:outer edge	Vert. sect.				0.72	29.21	21.16	

Southern Lake Michigan, 1990

Samp. JD No.	Site	Sample Type	Location	Descrip.	Elev. (m)	Vol. of Melt (l)	Vol. of Samp. (l)	Weight of Sed. (gm)	Density of Ice (gm/cc)	Sed. Conc. of Water (gm/l)	Sed. Conc. of Ice (gm/l)	Misc. Notes
59	048	K. Andrae	Push tube	Ice ridge: outer edge		1.6	3.5741	71.84	0.45	43.91	20.10	Newly attached
60	048	K. Andrae	Ice	Brash/Slush belt		1.74		176.23		96.40		Outer belt
61	048	K. Andrae	Ice	Brash/Slush belt		1.04		145.47		130.73		
62	048	K. Andrae	Water	Brash/Slush belt								
10cm W						0.748		1.6928		2.26		
10cm I						0.23		13.31		13.31		
44.4cm W						0.56		0.2312		0.41		
44.4cm I						0.58		2.6486		4.56		
63	048	K. Andrae	Water	Brash/Slush belt								
10cm W						0.99		1.2047		1.22		
44.4cm W						0.855		0.8275		0.97		
44.4cm I						0.51		3.0963		6.05		
84cm W						0.64		0.9097		1.42		
84cm I						0.34		2.5113		7.36		
64	048	K. Andrae	Water	Brash/Slush belt								
10cm W						0.73		0.0397		0.05		
44.4cm W						1.09		0.0485		0.04		
44.4cm I						0.054		0.0708 *		1.31		
84cm W						0.552		0.2142		0.39		
84cm I						0.222		0.6187		2.78		
65	048	K. Andrae	Water	Brash/Slush belt								
10cm W						0.95		1.0774		1.13		
44.4cm W						1.04		0.8261		0.79		
44.4cm I						0.012		0.0378 *		3.15		
84cm W						0.29		0.349		1.20		
84cm I						0.128		0.3854		3.01		
66	050	K. Andrae	Ice	Lakebed near ice ridge	Anchor ice	0.61		45.89		72.50		Kicked up
67	050	K. Andrae	Ice	100m from icefoot	Slush	1.28		32.18		24.83		
68	050	K. Andrae	Ice	Brash/Slush belt	Typical	2.105		204.21		92.52		
69	051	K. Andrae	Water	Brash/Slush belt		0.5		0.007392		0.01		
70	051	K. Andrae	Water	Brash/Slush belt	*total" slush	6.04		41.3		6.81		
71	051	K. Andrae	Water	20m lakeward of foot	From surface	0.36		0.01832		0.05		
72I	051	K. Andrae	Ice	10m lakeward of foot	Anchor ice	0.16		4.92		30.28		
72W	051	K. Andrae	Water	10m lakeward of foot	Anchor ice	0.425		0.01729		0.04		
73I	051	K. Andrae	Ice	3m lakeward of foot	Anchor ice	0.26		14.44		54.04		
73W	051	K. Andrae	Water	2m lakeward of foot	Anchor ice	0.425		0.01361		0.03		
74	051	K. Andrae	Sed.	Lakebed: 30m from foot				287.49				Bar crest
76	051	K. Andrae	Stream	30 from shore	Micas?			0.5782				Kraus Streamer, 11a
77	051	K. Andrae	Stream	30m from shore				0.3697				Kraus Streamer

-70cm

Southern Lake Michigan, 1990

Samp. No.	JD	Site	Sample Type	Location	Descrip.	Elev. (m)	Vol. of Melt (l)	Vol. of Samp. (l)	Weight of Sed. (gm)	Density of Ice (gm/cc)	Sed. Conc. of Water (gm/l)	Sed. Conc. of Ice (gm/l)	Misc. Notes
78	051	Sta. 11	Ice	(3-4/10 ice cover)	Thin slab				17.65				
79	051	Sta. 6	Ice		8 Slabs				7.3				
80	051	Sta. 2	Ice	Pancake ice streak	Clear				8.3				
81	051	Sta. 8	Ice		Slushy slab				27.59				
82	051	Sta. 2	Ice	Pancake ice streak	Dirty Brash				7.47				
83	051	Sta. 1	Ice	Pcake. ice patch (9/10)					7.77				
84	051	Sta. 15	Ice		Slushy		1.25		26.56		21.02		Rep.
85	051	Sta. 7	Ice		Dirty slab		3.82		75.67		19.61		Pict. no. 21
86	051	Sta. 3	Ice	Pcake. & sheet ice (5/10)	Slabs				20.11				
87	051	Sta. 10	Ice	(3-4/10 ice cover)	Dirty				22.16				
88	051	Sta. 5	Ice	(5/10 ice cover)	Very small				34.01				
89	051	Sta. 9	Ice	Pancake ice (5/10)	Dirty				2.41				
90	051	Sta. 12	Sed.	Under-rafted slab	Sand				3.8				
91	051	Sta. 12	Sed.	Under-rafted slab	Pebbles				14.2				
92	051	Sta. 6	Ice		Slabs				6.22				
93	051	Sta. 15	Ice						166.48				Rep.
94	051	Sta. 14	Sed.	Pcake. ice patch (9/10)	Sand & pebbles				1453.56				Wt.=w/ bag
95	051	Sta. 13	Sed.	Pcake. ice patch (9/10)	Sand & pebbles				802.97				Wt.=w/ bag

APPENDIX 2-C

Appendix 2-C contains grain size analysis results of February 1990 samples.

Grain size results for SLM90 sediments

Gillson Beach

	1	2	3	4	5	6	7
mm	%	%	%	%	%	%	%
8.00					2.784		
5.66					6.158		
4.00					12.908		
2.83					21.431		
2.00	8.205		2.053	5.645	24.018	2.17	
1.41	2.754		0	0.944	2.044	0	
1.00	4.819	0.5	0	4.718	5.804	1.467	1.75
0.71	4.36	0.75	0	8.256	6.54	0.734	0.25
0.50	6.426	4.75	0.49	13.917	5.886	2.69	0.001
0.35	12.392	12.5	11.264	24.061	6.05	17.12	2.999
0.25	28.916	4.6	55.83	32.081	2.943	40.6	32.5
0.18	27.539	32.25	28.895	9.671	2.861	32.529	54.501
0.12	3.672	2.25	0.735	0.236	0.409	2.201	7
0.09	0.917	0.75	0.734	0.236	0.163	0.488	0.999
0.06		0.249		0.235			

Point Beach

	2 3	2 4	2 8	2 9	3 0	3 3	3 4	3 6
mm	%	%	%	%	%	%	%	%
0.71		0.5						0.75
0.50	0.75	1.5	0.75	1		0.5		0.5
0.35	3.75	5	7.25	4	1	3.5	1.75	2.75
0.25	29.5	36	42	40	31	27	30.25	24
0.18	58.501	52.001	45.5	51.501	65.001	60.501	65.001	62.501
0.12	6.5	3.75	3	2.5	0.75	7.5	2	5.5
0.09	0.9	0.5	0.5	0.001	2.249	0.999	0.5	1
0.06	0.099	0.749	0.5	0.499			0.499	1.75
0.04			0.499	0.499				1.249

Grain size results for SLM90 sediments

Point Beach					Kohler-Andrae					
	56	(0-10)	56	(10-55)	56	(55-98)		6 6	7 0	7 4
mm		%		%		%		%	%	%
0.71								0.25		
0.50								0.25	1	0.5
0.35	4		7		6			2.5	3	5.5
0.25	36.5		48		44			42	41	38
0.18	57.501		43		46.5			51.751	52.001	50.751
0.12	1.5		1		1.5			2.25	2.5	4.75
0.09	0.25		0.5		0.5			0.5	0.25	0.499
0.06	0.249		0.499		1			0.499	0.249	
0.04					0.499					

Neeskay Cruise			
	8 4	8 5	9 3
mm	%	%	%
2.00			4.702
1.41			0
1.00			0
0.50	1		0.953
0.35	2	2.25	2.382
0.25	11.5	37.25	10.006
0.18	41.5	56.251	31.449
0.12	40	3.5	40.979
0.09	3.8	0.749	6.194
0.06	0.199		2.382
0.04			0.952

APPENDIX 2-D

Appendix 2-D contains 1990 profile data. Locations may be found on figure 8.

PROFILE DATA: GILLSON BEACH PARK, WILMETTE, ILLINOIS

Latitude/Longitude (UTM): $42^{\circ}04'52"N/87^{\circ}41'13"W$
(465885N/044322E)

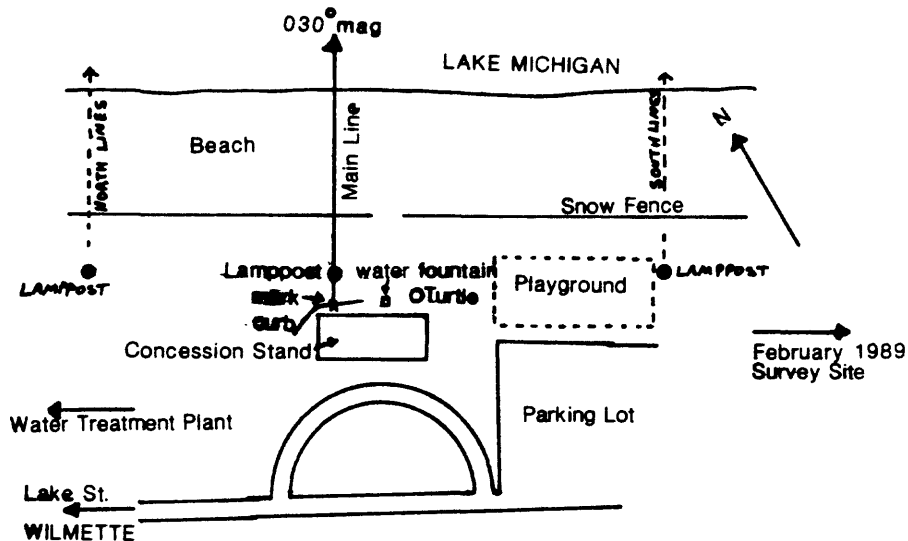
Date: December 10, 1989 (Onshore)
December 12, 1989 (Onshore)
December 13, 1989 (Offshore)
December 14, 1989 (Onshore)

Time: December 10: 1250 - 1619 CST
December 12: 1311 - 1520 CST
December 13: 1156 - 1520 CST
December 14: 0849 - 1214 CST

Location: See attached sketch - The survey was run at the central portion of Gillson Beach. The Main Line (ML) extends from a black mark on the curb on the northeast side of the concession stand (back marker) through the center light of five lightposts (front marker) at a 030° (0° declination) bearing. A line on this bearing perpendicularly bisects the shoreline. "USGS" is printed on the bottom of the light post. It should be noted that this profile and the 1990 Gillson Profiles were run to the north of the February 1989 Gillson Beach Profiles.

Horizontal Control: Twelve profile lines were surveyed parallel to the center line. Lines North Line 1 to 6 (NL1, NL2, ...) were spaced 15 meters apart with NL1 being most proximal to the Main Line. The South Lines were identically set up.

Vertical Control: Elevations (z) reflect the elevation above Low Water Datum, 1955 (175.81m). The front reference marker was tied into this datum by surveying the bench marks M-26 and M-27 on the harbor entrance jettys just south of Gillson Beach next to the Coast Guard Building. It should be noted that these bench marks are correlated to City of Chicago Datum, which is 0.453 m below Low Water Datum. The front marker is the reference point of this survey grid and was surveyed to be 2.838 meters. Lake level was measured on December 14 to be 0.316 meters based on an average of 6 measurements between 0911 CST and 1215 CST.



GILLSON STATE BEACH, WILMETTE, ILLINOIS
Reference Point Elevation = 2.838m
Surveying Crew: Tom Reiss & Ed Kempema

LAKE LEVEL

14 December, 1989 0911-1215 (CST)

Average Lake Level = 0.316m

PT. #	X (m)	Y (m)	Z (m)	COMMENTS
63	-51.899	-90.770	0.323	North Line 6
111	-53.559	-75.547	0.310	North Line 5
158	-53.768	-60.041	0.322	North Line 4
267	-64.470	-59.601	0.308	South Line 4
212	-60.653	74.328	0.313	South Line 5
29	-64.327	90.958	0.319	South Line 6

NORTH LINE 6 (MERGED ON- & OFFSHORE PROFILES)

14 December 1989 0925 to 0935 (CST) (ONSHORE)

13 December 1989 1508 to 1520 (CST) (OFFSHORE)

Average offset for 3 points = -0.109807

PT. # X (m) Y (m) Z (m) TIME COMMENTS

62	56.208	-91.191	2.628	
61	50.970	-91.348	2.341	
60	40.015	-91.163	2.454	
59	31.138	-91.067	2.370	
58	21.832	-90.945	2.512	
57	15.496	-90.655	3.004	
56	7.912	-90.755	2.865	
55	0.838	-90.638	2.690	
54	-5.235	-90.841	2.571	
53	-13.368	-90.779	2.103	
52	-19.224	-90.730	1.784	
51	-24.485	-90.869	1.586	
50	-31.090	-91.071	1.320	
49	-36.087	-91.035	0.944	
48	-40.080	-90.621	0.641	
47	-47.092	-90.550	0.030	
46	-51.969	-90.778	-0.145	
45	-57.364	-90.601	-0.151	
44	-63.363	-90.692	-0.167	
43	-70.959	-90.682	-0.274	1513.00
203	-94.106	-92.028	-0.555	1513.36
257	-94.970	-90.930	-0.397	1513.33
256	-97.540	-90.940	-0.367	1513.28
255	-101.820	-90.960	-0.507	1513.24
254	-105.250	-90.970	-0.597	1513.21
253	-107.820	-90.980	-0.717	1513.18
252	-110.390	-90.990	-0.837	1513.16
251	-112.110	-91.000	-0.977	1513.14
250	-114.680	-91.010	-1.137	1513.11
249	-116.390	-91.010	-1.247	1513.10
248	-117.250	-91.020	-1.407	1513.08
247	-118.960	-91.020	-1.507	1513.07
246	-119.820	-91.030	-1.627	1513.05
245	-121.530	-91.030	-1.737	1513.04
244	-122.390	-91.040	-1.847	1513.02
243	-124.100	-91.040	-2.127	1513.00
242	-125.820	-91.050	-2.127	1512.98
241	-128.150	-91.070	-2.137	1512.96
240	-130.480	-91.090	-2.167	1512.93
239	-133.970	-91.120	-2.197	1512.91
238	-136.300	-91.140	-2.217	1512.89
237	-138.630	-91.160	-2.217	1512.87
236	-140.960	-91.190	-2.217	1512.84
235	-144.460	-91.220	-2.287	1512.82
234	-146.780	-91.240	-2.517	

232	-150.280	-91.270	-2.247	1512.79
231	-152.610	-91.290	-2.197	1512.77
230	-156.100	-91.320	-2.137	1512.74
229	-159.600	-91.350	-2.157	1512.71
228	-161.930	-91.380	-2.137	1512.69
227	-166.590	-91.420	-2.207	1512.65
226	-170.080	-91.450	-2.217	1512.62
225	-172.410	-91.470	-2.247	1512.60
224	-175.910	-91.500	-2.327	1512.57
223	-179.400	-91.530	-2.427	1512.54
222	-182.520	-91.550	-2.517	1512.51
221	-185.520	-91.560	-2.467	1512.5
220	-185.520	-91.570	-2.427	1512.48
219	-187.530	-91.580	-2.467	1512.46
218	-188.530	-91.590	-2.297	1512.45
217	-189.530	-91.590	-2.197	1512.44
216	-191.530	-91.600	-2.087	1512.42
215	-192.540	-91.610	-1.957	1512.41
214	-193.540	-91.610	-1.877	1512.4
213	-195.540	-91.620	-1.787	1512.38
212	-196.540	-91.630	-1.677	1512.37
211	-197.550	-91.630	-1.557	1512.36
210	-198.550	-91.640	-1.457	1512.35
209	-200.550	-91.650	-1.447	1512.33
208	-203.560	-91.670	-1.447	1512.3
207	-205.560	-91.680	-1.477	1512.28
206	-206.560	-91.680	-1.487	1512.27
205	-208.570	-91.690	-1.527	1512.25
204	-210.570	-91.700	-1.577	1512.23
203	-212.580	-91.720	-1.647	1512.21
202	-214.580	-91.730	-1.707	1512.19
201	-216.580	-91.740	-1.797	1512.17
200	-219.590	-91.750	-1.907	1512.14
199	-220.590	-91.760	-1.937	1512.13
198	-222.600	-91.770	-1.937	1512.11
197	-224.600	-91.780	-2.017	1512.09
196	-226.600	-91.790	-2.087	1512.07
195	-227.610	-91.800	-2.147	1512.06
194	-229.610	-91.810	-2.187	1512.04
193	-232.700	-91.880	-2.277	1512.01
192	-235.820	-91.960	-2.327	1511.98
191	-236.860	-91.990	-2.377	1511.97
190	-239.980	-92.070	-2.437	1511.94
189	-242.060	-92.120	-2.547	1511.92
188	-245.170	-92.210	-2.597	1511.89
187	-248.290	-92.290	-2.637	1511.86
186	-252.450	-92.400	-2.757	1511.82
185	-254.530	-92.460	-2.817	1511.8
184	-256.610	-92.510	-2.867	1511.78
183	-258.690	-92.570	-2.937	1511.76
182	-260.760	-92.620	-2.937	1511.74
181	-262.840	-92.680	-2.967	1511.72
180	-265.960	-92.760	-3.017	1511.69
179	-269.080	-92.840	-3.117	1511.66
178	-271.160	-92.900	-3.127	1511.64
177	-274.270	-92.980	-3.197	1511.61
176	-275.310	-93.010	-3.287	1511.6
175	-278.430	-93.090	-3.277	1511.57
174	-280.510	-93.150	-3.317	1511.55
173	-282.510	-93.180	-3.357	1511.53
172	-284.510	-93.210	-3.387	1511.51
171	-286.510	-93.240	-3.427	1511.49
170	-289.500	-93.280	-3.477	1511.46
169	-291.500	-93.310	-3.517	1511.44
168	-293.500	-93.340	-3.547	1511.42
167	-296.500	-93.390	-3.557	1511.39

100	-450.950	-98.260	-5.207	1509.86
99	-453.000	-98.390	-5.227	1509.84
98	-455.060	-98.520	-5.257	1509.82
97	-457.110	-98.650	-5.257	1509.8
96	-459.160	-98.780	-5.257	1509.78
95	-461.210	-98.910	-5.257	1509.76
94	-464.290	-99.100	-5.327	1509.73
93	-466.340	-99.230	-5.307	1509.71
92	-468.390	-99.360	-5.307	1509.69
91	-470.440	-99.490	-5.307	1509.67
90	-473.520	-99.680	-5.337	1509.64
89	-474.540	-99.750	-5.377	1509.63
88	-475.570	-99.810	-5.377	1509.62
87	-478.640	-100.010	-5.377	1509.59
86	-480.700	-100.140	-5.407	1509.57
85	-481.720	-100.200	-5.457	1509.56
84	-483.770	-100.330	-5.457	1509.54
83	-485.820	-100.460	-5.417	1509.52
82	-486.850	-100.530	-5.447	1509.51
81	-489.040	-100.610	-5.497	1509.49
80	-490.200	-100.630	-5.527	1509.48
79	-493.680	-100.690	-5.497	1509.45
78	-497.160	-100.750	-5.557	1509.42
77	-498.320	-100.770	-5.577	1509.41
76	-499.490	-100.790	-5.607	1509.4
75	-501.810	-100.830	-5.607	1509.38
74	-504.130	-100.870	-5.607	1509.36
73	-506.450	-100.920	-5.657	1509.34
72	-507.610	-100.940	-5.647	1509.33
71	-509.940	-100.980	-5.677	1509.31
70	-512.260	-101.020	-5.697	1509.29
69	-513.420	-101.040	-5.737	1509.28
68	-515.740	-101.080	-5.737	1509.26
67	-516.900	-101.100	-5.777	1509.25
66	-519.220	-101.140	-5.777	1509.23
65	-521.550	-101.180	-5.777	1509.21
64	-523.870	-101.220	-5.847	1509.19
63	-525.030	-101.240	-5.887	1509.18
62	-527.350	-101.280	-5.887	1509.16
61	-528.510	-101.300	-5.887	1509.15
60	-530.840	-101.340	-5.947	1509.13
59	-532.000	-101.360	-5.967	1509.12
58	-534.320	-101.400	-5.967	1509.1
57	-535.480	-101.420	-5.997	1509.09
56	-536.640	-101.440	-6.007	1509.08
55	-538.960	-101.480	-6.047	1509.06
54	-540.130	-101.500	-6.047	1509.05
53	-542.450	-101.540	-6.047	1509.03
52	-544.770	-101.580	-6.087	1509.01
51	-546.910	-101.600	-6.167	1508.99
50	-547.890	-101.600	-6.197	1508.98
49	-549.850	-101.590	-6.187	1508.96
48	-551.810	-101.590	-6.167	1508.94
47	-552.790	-101.590	-6.197	1508.93
46	-553.770	-101.590	-6.277	1508.92
45	-555.730	-101.580	-6.297	1508.9
44	-557.690	-101.580	-6.287	1508.88
43	-558.670	-101.580	-6.317	1508.87
42	-560.630	-101.570	-6.377	1508.85
41	-561.620	-101.570	-6.417	1508.84
40	-562.600	-101.570	-6.417	1508.83
39	-564.560	-101.570	-6.437	1508.81
38	-567.500	-101.560	-6.517	1508.78
37	-569.460	-101.560	-6.547	1508.76
36	-571.420	-101.550	-6.627	1508.74
35	-572.400	-101.550	-6.667	1508.73

166	-299.500	-93.430	-3.597	1511.36
165	-301.500	-93.460	-3.617	1511.34
164	-303.490	-93.490	-3.667	1511.32
163	-306.490	-93.540	-3.707	1511.29
162	-309.490	-93.580	-3.737	1511.26
161	-312.490	-93.620	-3.777	1511.23
160	-316.490	-93.680	-3.817	1511.19
159	-319.480	-93.730	-3.847	1511.16
158	-322.480	-93.770	-3.907	1511.13
157	-325.480	-93.820	-3.957	1511.1
156	-327.480	-93.850	-3.967	1511.08
155	-330.480	-93.890	-3.997	1511.05
154	-333.470	-93.940	-4.037	1511.02
153	-336.480	-94.000	-4.087	1510.99
152	-338.490	-94.060	-4.097	1510.97
151	-340.500	-94.120	-4.117	1510.95
150	-342.510	-94.180	-4.157	1510.93
149	-344.520	-94.230	-4.187	1510.91
148	-346.540	-94.290	-4.197	1510.89
147	-349.550	-94.380	-4.207	1510.86
146	-353.580	-94.500	-4.237	1510.82
145	-354.580	-94.530	-4.277	1510.81
144	-357.600	-94.620	-4.317	1510.78
143	-359.610	-94.680	-4.347	1510.76
142	-362.630	-94.770	-4.357	1510.73
141	-365.650	-94.860	-4.387	1510.7
140	-368.660	-94.950	-4.427	1510.67
139	-370.680	-95.010	-4.457	1510.65
138	-372.690	-95.070	-4.507	1510.63
137	-374.700	-95.130	-4.517	1510.61
136	-376.710	-95.190	-4.517	1510.59
135	-379.730	-95.280	-4.597	1510.56
134	-381.740	-95.340	-4.597	1510.54
133	-382.740	-95.370	-4.597	1510.53
132	-384.760	-95.430	-4.657	1510.51
131	-386.780	-95.490	-4.667	1510.49
130	-388.810	-95.570	-4.667	1510.47
129	-390.850	-95.640	-4.677	1510.45
128	-392.880	-95.720	-4.737	1510.43
127	-395.930	-95.830	-4.747	1510.4
126	-397.960	-95.910	-4.767	1510.38
125	-402.030	-96.060	-4.777	1510.34
124	-403.050	-96.100	-4.817	1510.33
123	-405.080	-96.180	-4.827	1510.31
122	-408.130	-96.290	-4.857	1510.28
121	-409.150	-96.330	-4.887	1510.27
120	-412.200	-96.440	-4.887	1510.24
119	-414.230	-96.520	-4.897	1510.22
118	-416.260	-96.590	-4.937	1510.2
117	-419.310	-96.710	-4.947	1510.17
116	-420.330	-96.740	-4.967	1510.16
115	-423.380	-96.860	-4.967	1510.13
114	-425.410	-96.930	-4.967	1510.11
113	-427.450	-97.010	-4.987	1510.09
112	-428.460	-97.050	-5.017	1510.08
111	-429.480	-97.080	-5.047	1510.07
110	-431.510	-97.160	-4.977	1510.05
108	-433.550	-97.240	-5.067	1510.03
109	-435.550	-97.240	-5.007	1510.03
107	-435.580	-97.310	-5.057	1510.01
106	-438.650	-97.680	-5.047	1509.98
105	-439.670	-97.540	-5.107	1509.97
104	-441.720	-97.670	-5.127	1509.95
103	-443.770	-97.800	-5.107	1509.93
102	-445.830	-97.930	-5.127	1509.91
101	-448.900	-98.130	-5.147	1509.88

84	-31.429	-73.864	1.056
83	-34.909	-74.341	0.908
82	-38.409	-74.608	0.502
81	-42.544	-74.602	0.122
80	-47.229	-74.938	-0.083
79	-52.576	-75.732	-0.178
78	-57.282	-75.278	-0.204
77	-62.388	-74.703	-0.196
76	-71.295	-75.085	-0.292
75	-85.940	-76.380	-0.544
74	-87.910	-76.400	-0.544
73	-89.870	-76.420	-0.604
72	-93.800	-76.450	-0.694
71	-96.750	-76.480	-0.824
70	-97.740	-76.490	-0.834
69	-101.670	-76.520	-0.764
68	-104.620	-76.550	-0.654
67	-106.580	-76.570	-0.654
66	-110.520	-76.600	-0.824
65	-112.480	-76.620	-0.934
64	-114.450	-76.640	-1.034
63	-115.430	-76.650	-1.144
62	-117.400	-76.670	-1.204
61	-119.360	-76.680	-1.394
60	-123.310	-76.710	-1.494
59	-123.300	-76.720	-1.494
58	-126.240	-76.750	-1.494
57	-128.210	-76.760	-1.524
56	-131.160	-76.790	-1.544
55	-134.110	-76.820	-1.564
54	-136.070	-76.830	-1.624
53	-138.040	-76.850	-1.754
52	-140.010	-76.870	-1.814
51	-141.970	-76.890	-1.864
50	-145.930	-76.920	-1.864
49	-150.150	-76.940	-1.934
48	-152.270	-76.940	-1.984
47	-155.430	-76.960	-2.044
46	-158.600	-76.970	-2.134
45	-161.770	-76.980	-2.254
44	-165.990	-76.990	-2.284
43	-169.160	-77.010	-2.394
42	-171.270	-77.010	-2.464
41	-174.440	-77.020	-2.554
40	-177.610	-77.040	-2.594
39	-182.890	-77.050	-2.754
38	-183.950	-77.060	-2.634
37	-186.060	-77.070	-2.524
36	-188.170	-77.070	-2.524
35	-189.230	-77.080	-2.444
34	-190.280	-77.080	-2.334
33	-192.400	-77.090	-2.244
32	-193.450	-77.090	-2.164
31	-196.620	-77.100	-1.974
30	-196.620	-77.100	-2.054
29	-198.730	-77.110	-1.884
28	-200.840	-77.120	-1.794
27	-201.900	-77.120	-1.644
26	-203.980	-77.160	-1.604
25	-208.130	-77.240	-1.524
24	-211.240	-77.290	-1.534
23	-214.350	-77.350	-1.604
22	-216.420	-77.390	-1.634
21	-219.540	-77.440	-1.694
20	-222.690	-77.500	-1.754
19	-223.690	-77.520	-1.784

PT. #	X (m)	Y (m)	Z (m)	TIME	COMMENTS
34	-575.340	-101.540	-6.747	1508.7	
33	-577.300	-101.540	-6.787	1508.68	
32	-578.280	-101.540	-6.847	1508.67	
31	-579.260	-101.540	-6.867	1508.66	
30	-581.220	-101.530	-6.867	1508.64	
29	-583.180	-101.530	-6.927	1508.62	
28	-584.160	-101.530	-6.997	1508.61	
27	-587.100	-101.520	-6.967	1508.58	
26	-589.060	-101.520	-6.997	1508.56	
25	-591.020	-101.510	-7.017	1508.54	
24	-592.000	-101.510	-7.047	1508.53	
23	-595.920	-101.500	-7.047	1508.49	
22	-597.880	-101.500	-7.017	1508.47	
21	-598.870	-101.500	-6.977	1508.46	
20	-599.850	-101.500	-7.097	1508.45	
19	-601.810	-101.490	-7.117	1508.43	
18	-603.280	-101.490	-7.077	1508.415	
17	-603.770	-101.490	-7.137	1508.41	
16	-605.730	-101.480	-7.207	1508.39	
15	-607.690	-101.480	-7.217	1508.37	
14	-609.160	-101.480	-7.177	1508.355	
13	-609.650	-101.480	-7.117	1508.35	
12	-612.590	-101.470	-7.047	1508.32	
11	-615.530	-101.470	-7.167	1508.29	
10	-616.510	-101.460	-7.167	1508.28	
9	-619.450	-101.460	-7.087	1508.25	
8	-620.430	-101.460	-7.097	1508.24	
7	-622.390	-101.450	-7.047	1508.22	
6	-622.880	-101.450	-6.937	1508.215	
5	-623.370	-101.450	-6.777	1508.21	
4	-625.330	-101.450	-6.967	1508.19	
3	-627.290	-101.440	-7.017	1508.17	
2	-629.250	-101.440	-6.857	1508.15	
1	-631.210	-101.430	-6.837	1508.13	

NORTH LINE 5 (MERGED ON- & OFFSHORE PROFILES)
 14 December 1989 0943 to 0958 (CST) (ONSHORE)
 13 December 1989 1451 to 1503 (CST) (OFFSHORE)
 Average offset for 4 points = -0.256942

127	-401.840	-80.190	-4.594	1455.56
126	-403.850	-80.250	-4.624	1455.54
125	-405.850	-80.300	-4.644	1455.52
124	-407.860	-80.350	-4.654	1455.5
123	-410.900	-80.380	-4.714	1455.47
122	-411.920	-80.390	-4.764	1455.46
121	-414.960	-80.420	-4.694	1455.43
120	-419.020	-80.460	-4.774	1455.39
119	-421.050	-80.480	-4.834	1455.37
118	-423.070	-80.500	-4.834	1455.35
117	-425.100	-80.520	-4.844	1455.33
116	-428.150	-80.550	-4.874	1455.3
115	-430.170	-80.570	-4.894	1455.28
114	-433.220	-80.600	-4.954	1455.25
113	-436.260	-80.630	-5.004	1455.22
112	-439.300	-80.660	-4.994	1455.19
111	-441.330	-80.680	-5.034	1455.17
110	-443.360	-80.700	-5.034	1455.15
109	-445.390	-80.730	-5.074	1455.13
108	-447.420	-80.750	-5.084	1455.11
107	-450.460	-80.780	-5.054	1455.08
106	-453.500	-80.810	-5.124	1455.05
105	-455.530	-80.830	-5.134	1455.03
104	-457.560	-80.850	-5.124	1455.01
103	-460.680	-80.880	-5.114	1454.98
102	-463.840	-80.920	-5.154	1454.95
101	-468.040	-80.970	-5.174	1454.91
100	-472.250	-81.020	-5.244	1454.87
99	-474.350	-81.050	-5.244	1454.85
98	-478.560	-81.100	-5.354	1454.81
97	-481.720	-81.140	-5.354	1454.78
96	-485.920	-81.190	-5.374	1454.74
95	-488.030	-81.210	-5.404	1454.72
94	-491.180	-81.250	-5.404	1454.69
93	-493.290	-81.280	-5.404	1454.67
92	-496.440	-81.320	-5.444	1454.64
91	-500.650	-81.370	-5.474	1454.6
90	-503.800	-81.400	-5.494	1454.57
89	-505.910	-81.430	-5.514	1454.55
88	-509.060	-81.470	-5.504	1454.52
87	-512.310	-81.500	-5.564	1454.49
86	-514.580	-81.500	-5.594	1454.47
85	-518.000	-81.510	-5.574	1454.44
84	-521.420	-81.520	-5.584	1454.41
83	-523.700	-81.530	-5.624	1454.39
82	-524.830	-81.530	-5.664	1454.38
81	-528.250	-81.540	-5.664	1454.35
80	-532.810	-81.550	-5.724	1454.31
79	-535.080	-81.560	-5.724	1454.29
78	-538.500	-81.570	-5.764	1454.26
77	-541.920	-81.580	-5.804	1454.23
76	-544.200	-81.590	-5.804	1454.21
75	-548.750	-81.600	-5.884	1454.17
74	-551.030	-81.600	-5.904	1454.15
73	-554.450	-81.610	-5.944	1454.12
72	-557.860	-81.620	-5.984	1454.09
71	-560.140	-81.630	-6.044	1454.07
70	-563.560	-81.640	-6.044	1454.04
69	-565.840	-81.650	-6.104	1454.02
68	-569.170	-81.660	-6.154	1453.99
67	-571.280	-81.670	-6.174	1453.97
66	-573.390	-81.690	-6.234	1453.95
65	-575.500	-81.710	-6.234	1453.93
64	-578.660	-81.730	-6.224	1453.9
63	-580.770	-81.740	-6.334	1453.88
62	-584.990	-81.770	-6.404	1453.84

193	-226.800	-77.580	-1.884	1457.26
192	-228.880	-77.610	-1.944	1457.24
191	-230.950	-77.650	-2.034	1457.22
190	-233.030	-77.690	-2.054	1457.2
189	-235.100	-77.730	-2.094	1457.18
188	-237.180	-77.760	-2.154	1457.16
187	-239.250	-77.800	-2.224	1457.14
186	-241.330	-77.840	-2.294	1457.12
185	-243.400	-77.880	-2.344	1457.1
184	-245.480	-77.920	-2.374	1457.08
183	-247.550	-77.950	-2.454	1457.06
182	-250.660	-78.010	-2.534	1457.03
181	-253.780	-78.070	-2.644	1457
180	-256.870	-78.100	-2.674	1456.97
179	-259.960	-78.130	-2.764	1456.94
178	-263.050	-78.160	-2.874	1456.91
177	-266.140	-78.190	-2.904	1456.88
176	-270.260	-78.230	-2.974	1456.84
175	-273.360	-78.260	-3.034	1456.81
174	-277.480	-78.310	-3.084	1456.77
173	-281.600	-78.350	-3.124	1456.73
172	-284.690	-78.380	-3.264	1456.7
171	-287.780	-78.410	-3.314	1456.67
170	-291.910	-78.450	-3.374	1456.63
169	-295.000	-78.480	-3.394	1456.6
168	-298.090	-78.510	-3.484	1456.57
167	-300.150	-78.530	-3.524	1456.55
166	-304.270	-78.580	-3.544	1456.51
165	-307.400	-78.610	-3.604	1456.48
164	-309.500	-78.630	-3.604	1456.46
163	-311.600	-78.650	-3.644	1456.44
162	-313.690	-78.670	-3.674	1456.42
161	-315.790	-78.680	-3.684	1456.4
160	-316.840	-78.690	-3.684	1456.39
159	-319.980	-78.720	-3.744	1456.36
158	-323.130	-78.750	-3.754	1456.33
157	-326.280	-78.780	-3.814	1456.3
156	-329.420	-78.810	-3.854	1456.27
155	-332.570	-78.840	-3.854	1456.24
154	-335.710	-78.870	-3.894	1456.21
153	-338.860	-78.900	-3.984	1456.18
152	-340.960	-78.920	-3.984	1456.16
151	-343.050	-78.940	-3.974	1456.14
150	-345.150	-78.960	-4.054	1456.12
149	-347.250	-78.980	-4.054	1456.1
148	-349.340	-79.000	-4.064	1456.08
147	-351.440	-79.020	-4.144	1456.06
146	-354.590	-79.050	-4.144	1456.03
145	-356.680	-79.070	-4.134	1456.01
144	-358.730	-79.100	-4.134	1455.99
143	-361.740	-79.180	-4.214	1455.96
142	-364.750	-79.250	-4.174	1455.93
141	-365.750	-79.280	-4.214	1455.92
140	-367.760	-79.330	-4.284	1455.9
139	-369.760	-79.380	-4.294	1455.88
138	-370.770	-79.410	-4.284	1455.87
137	-372.770	-79.460	-4.294	1455.85
136	-376.780	-79.560	-4.324	1455.81
135	-378.790	-79.610	-4.334	1455.79
134	-380.790	-79.660	-4.364	1455.77
133	-383.800	-79.740	-4.374	1455.74
132	-386.810	-79.810	-4.454	1455.71
131	-389.810	-79.890	-4.484	1455.68
130	-393.820	-79.990	-4.514	1455.64
129	-395.830	-80.040	-4.514	1455.62
128	-397.830	-80.090	-4.534	1455.6

PT. #	X (m)	Y (m)	Z (m)	TIME	COMMENTS
157	35.987	-63.069	2.492		
156	27.998	-62.214	2.194		
155	24.587	-61.932	2.176		
154	20.945	-61.898	2.155		
153	17.406	-61.680	2.169		
152	13.904	-61.052	2.174		
151	10.387	-60.579	2.241		
150	6.819	-60.366	2.382		
149	3.107	-59.987	2.572		
148	-0.445	-59.678	2.708		
147	-4.576	-60.008	2.662		
146	-8.600	-59.689	2.365		
145	-11.759	-59.620	2.030		
144	-14.952	-59.853	1.810		
143	-18.009	-59.726	1.662		
142	-21.518	-59.715	1.525		
141	-25.038	-59.763	1.400		
140	-28.613	-59.705	1.239		
139	-31.804	-59.671	0.986		
138	-35.991	-59.773	0.788		
137	-38.700	-60.494	0.481		
136	-43.145	-60.146	0.122		
135	-45.713	-59.665	-0.115		
134	-51.967	-59.707	-0.201		
133	-56.612	-59.139	-0.229		
132	-63.400	-59.558	-0.289		
202	-70.010	-59.440	-0.156	1443.13	
201	-71.570	-59.410	-0.286	1443.1	
200	-73.130	-59.370	-0.206	1443.07	
199	-75.730	-59.310	-0.226	1443.02	
198	-76.770	-59.290	-0.286	1443	
197	-77.290	-59.280	-0.346	1442.99	
196	-79.370	-59.230	-0.316	1442.95	
195	-80.410	-59.200	-0.306	1442.93	
194	-81.970	-59.170	-0.306	1442.9	
193	-83.010	-59.140	-0.356	1442.88	
192	-84.570	-59.110	-0.446	1442.85	
191	-86.130	-59.070	-0.496	1442.82	
190	-88.210	-59.020	-0.536	1442.78	
189	-89.250	-59.000	-0.556	1442.76	
188	-90.290	-58.980	-0.516	1442.74	
187	-91.330	-58.950	-0.486	1442.72	
186	-93.410	-58.900	-0.426	1442.68	
185	-95.640	-58.860	-0.606	1442.65	
184	-97.480	-58.830	-0.606	1442.63	
183	-99.320	-58.800	-0.716	1442.61	
182	-102.080	-58.750	-0.756	1442.58	
181	-103.920	-58.720	-0.826	1442.56	
180	-105.760	-58.690	-0.916	1442.54	
179	-106.680	-58.680	-1.036	1442.53	
178	-110.360	-58.610	-1.146	1442.49	
177	-111.280	-58.600	-1.216	1442.48	
176	-112.200	-58.580	-1.316	1442.47	
175	-114.040	-58.550	-1.416	1442.45	
174	-114.960	-58.540	-1.476	1442.44	
173	-118.640	-58.470	-1.566	1442.4	
172	-120.480	-58.440	-1.596	1442.38	
171	-123.240	-58.400	-1.736	1442.35	
170	-124.160	-58.380	-1.756	1442.34	
169	-126.000	-58.350	-1.756	1442.32	
168	-127.840	-58.320	-1.756	1442.3	
167	-130.600	-58.270	-1.806	1442.27	
166	-131.520	-58.260	-1.906	1442.26	
165	-135.200	-58.190	-1.896	1442.22	
164	-136.120	-58.180	-1.856	1442.21	

61	-588.160	-81.800	-6.394	1453.81	
60	-589.210	-81.800	-6.454	1453.8	
59	-591.320	-81.820	-6.534	1453.78	
58	-594.490	-81.840	-6.594	1453.75	
57	-595.540	-81.850	-6.674	1453.74	
56	-597.650	-81.860	-6.754	1453.72	
55	-600.820	-81.890	-6.794	1453.69	
54	-602.930	-81.900	-6.864	1453.67	
53	-603.980	-81.910	-6.884	1453.66	
52	-606.090	-81.930	-6.944	1453.64	
51	-608.200	-81.940	-6.984	1453.62	
50	-610.310	-81.960	-7.034	1453.6	
49	-612.420	-81.970	-7.044	1453.58	
48	-615.590	-81.990	-7.114	1453.55	
47	-617.700	-82.010	-7.114	1453.53	
46	-619.810	-82.020	-7.164	1453.51	
45	-623.020	-82.060	-7.164	1453.48	
44	-625.180	-82.090	-7.264	1453.46	
43	-627.330	-82.120	-7.304	1453.44	
42	-628.410	-82.140	-7.144	1453.43	
41	-630.570	-82.170	-7.194	1453.41	
40	-631.650	-82.180	-7.324	1453.4	
39	-632.730	-82.200	-7.394	1453.39	
38	-635.970	-82.240	-7.324	1453.36	
37	-637.050	-82.260	-7.204	1453.35	
36	-638.130	-82.270	-7.054	1453.34	
35	-641.360	-82.320	-7.284	1453.31	
34	-643.520	-82.350	-7.364	1453.29	
33	-647.840	-82.410	-7.294	1453.25	
32	-650.000	-82.440	-7.164	1453.23	
31	-651.080	-82.460	-7.014	1453.22	
30	-652.160	-82.470	-7.164	1453.21	
29	-655.390	-82.520	-7.154	1453.18	
28	-657.550	-82.550	-7.064	1453.16	
27	-660.790	-82.590	-7.014	1453.13	
26	-662.950	-82.620	-6.964	1453.11	
25	-666.180	-82.670	-7.024	1453.08	
24	-670.500	-82.730	-7.054	1453.04	
23	-672.660	-82.760	-6.914	1453.02	
22	-674.820	-82.790	-6.914	1453	
21	-675.900	-82.810	-6.874	1452.99	
20	-679.130	-82.850	-6.944	1452.96	
19	-680.210	-82.870	-6.954	1452.95	
18	-680.210	-82.870	-6.894	1452.95	
17	-682.370	-82.900	-7.014	1452.93	
16	-685.610	-82.940	-6.894	1452.9	
15	-688.850	-82.990	-6.664	1452.87	
14	-689.930	-83.000	-6.844	1452.86	
13	-691.010	-83.020	-6.904	1452.85	
12	-693.160	-83.050	-6.944	1452.83	
11	-695.320	-83.080	-7.034	1452.81	
10	-697.480	-83.110	-7.104	1452.79	
9	-700.720	-83.150	-7.254	1452.76	
8	-702.880	-83.180	-6.944	1452.74	
7	-703.960	-83.200	-6.694	1452.73	
6	-708.270	-83.260	-7.094	1452.69	
5	-711.510	-83.310	-7.134	1452.66	
4	-714.750	-83.350	-7.264	1452.63	
3	-716.910	-83.380	-7.354	1452.61	
2	-720.140	-83.430	-7.414	1452.58	
1	-722.300	-83.460	-7.464	1452.56	

NORTH LINE 4 (MERGED ON- & OFFSHORE PROFILES)
 14 December 1989 1010 to 1021 (CST) (ONSHORE)
 13 December 1989 1438 to 1449 (CST) (OFFSHORE)
 Average offset for 5 points = -0.139304

163	-138.880	-58.130	-1.816	1442.18
162	-139.800	-58.120	-1.866	1442.17
161	-142.560	-58.070	-1.826	1442.14
160	-145.320	-58.020	-1.846	1442.11
159	-147.160	-57.990	-1.906	1442.09
158	-149.000	-57.960	-1.896	1442.07
157	-150.840	-57.930	-1.926	1442.05
156	-153.600	-57.880	-1.996	1442.02
155	-157.380	-57.870	-2.076	1441.98
154	-159.320	-57.880	-2.126	1441.96
153	-162.220	-57.900	-2.156	1441.93
152	-164.160	-57.910	-2.276	1441.91
151	-166.100	-57.930	-2.346	1441.89
150	-168.040	-57.940	-2.356	1441.87
149	-170.950	-57.960	-2.536	1441.84
148	-172.890	-57.980	-2.396	1441.82
147	-173.860	-57.980	-2.316	1441.81
146	-176.770	-58.000	-2.256	1441.78
145	-178.710	-58.020	-2.196	1441.76
144	-180.640	-58.030	-2.086	1441.74
143	-182.580	-58.050	-1.966	1441.72
142	-185.490	-58.070	-1.806	1441.69
141	-188.400	-58.040	-1.716	1441.66
140	-190.350	-58.020	-1.606	1441.64
139	-192.290	-58.000	-1.466	1441.62
138	-195.200	-57.970	-1.416	1441.59
137	-198.110	-57.930	-1.386	1441.56
136	-202.000	-57.890	-1.386	1441.52
135	-204.910	-57.850	-1.446	1441.49
134	-207.820	-57.820	-1.566	1441.46
133	-208.800	-57.810	-1.546	1441.45
132	-210.740	-57.790	-1.616	1441.43
131	-213.650	-57.750	-1.676	1441.4
130	-216.560	-57.720	-1.766	1441.37
129	-219.480	-57.680	-1.876	1441.34
128	-222.390	-57.650	-1.986	1441.31
127	-225.300	-57.620	-2.036	1441.28
126	-227.240	-57.590	-2.136	1441.26
125	-229.190	-57.570	-2.146	1441.24
124	-233.070	-57.530	-2.246	1441.2
123	-235.010	-57.500	-2.296	1441.18
122	-237.930	-57.470	-2.376	1441.15
121	-242.780	-57.410	-2.526	1441.1
120	-244.720	-57.390	-2.546	1441.08
119	-246.670	-57.370	-2.626	1441.06
118	-248.610	-57.350	-2.656	1441.04
117	-249.560	-57.340	-2.706	1441.03
116	-252.280	-57.350	-2.756	1441
115	-254.100	-57.360	-2.796	1440.98
114	-256.830	-57.360	-2.866	1440.95
113	-259.550	-57.370	-2.936	1440.92
112	-261.370	-57.380	-2.896	1440.9
111	-263.190	-57.390	-2.976	1440.88
110	-266.820	-57.400	-3.076	1440.84
109	-268.640	-57.400	-3.036	1440.82
108	-271.360	-57.410	-3.086	1440.79
107	-274.090	-57.420	-3.186	1440.76
106	-277.720	-57.430	-3.226	1440.72
105	-281.360	-57.440	-3.306	1440.68
104	-283.180	-57.450	-3.316	1440.66
103	-285.900	-57.460	-3.346	1440.63
102	-287.720	-57.460	-3.416	1440.61
101	-289.540	-57.470	-3.436	1440.59
100	-292.260	-57.480	-3.426	1440.56
99	-294.990	-57.490	-3.536	1440.53
98	-298.680	-57.490	-3.486	1440.49

97	-299.640	-57.490	-3.526	1440.48
96	-302.530	-57.490	-3.566	1440.45
95	-304.460	-57.480	-3.576	1440.43
94	-308.310	-57.470	-3.616	1440.39
93	-311.200	-57.470	-3.646	1440.36
92	-314.090	-57.460	-3.676	1440.33
91	-316.980	-57.450	-3.716	1440.3
90	-320.830	-57.450	-3.746	1440.26
89	-325.650	-57.430	-3.836	1440.21
88	-328.540	-57.430	-3.876	1440.18
87	-330.460	-57.420	-3.936	1440.16
86	-335.280	-57.410	-4.016	1440.11
85	-339.130	-57.400	-4.036	1440.07
84	-342.020	-57.400	-4.106	1440.04
83	-342.990	-57.400	-4.086	1440.03
82	-345.880	-57.390	-4.086	1440
81	-349.690	-57.360	-4.106	1439.96
80	-352.550	-57.340	-4.106	1439.93
79	-357.310	-57.300	-4.146	1439.88
78	-359.220	-57.290	-4.156	1439.86
77	-363.030	-57.260	-4.206	1439.82
76	-367.790	-57.220	-4.246	1439.77
75	-369.700	-57.210	-4.276	1439.75
74	-371.600	-57.190	-4.236	1439.73
73	-375.410	-57.160	-4.356	1439.69
72	-378.270	-57.140	-4.356	1439.66
71	-380.180	-57.120	-4.436	1439.64
70	-382.080	-57.110	-4.406	1439.62
69	-383.040	-57.100	-4.456	1439.61
68	-384.940	-57.090	-4.466	1439.59
67	-386.850	-57.070	-4.476	1439.57
66	-389.710	-57.050	-4.546	1439.54
65	-391.610	-57.040	-4.546	1439.52
64	-394.420	-57.010	-4.626	1439.49
63	-396.230	-56.980	-4.656	1439.47
62	-398.040	-56.950	-4.686	1439.45
61	-399.840	-56.920	-4.726	1439.43
60	-401.650	-56.890	-4.746	1439.41
59	-402.560	-56.870	-4.766	1439.4
58	-404.360	-56.840	-4.806	1439.38
57	-407.070	-56.800	-4.856	1439.35
56	-408.880	-56.770	-4.886	1439.33
55	-411.590	-56.720	-4.946	1439.3
54	-413.400	-56.700	-4.956	1439.28
53	-417.010	-56.640	-5.076	1439.24
52	-418.820	-56.610	-5.076	1439.22
51	-420.630	-56.580	-5.076	1439.2
50	-421.530	-56.560	-5.156	1439.19
49	-423.340	-56.530	-5.186	1439.17
48	-426.050	-56.490	-5.256	1439.14
47	-426.950	-56.470	-5.296	1439.13
46	-430.570	-56.410	-5.366	1439.09
45	-433.280	-56.370	-5.386	1439.06
44	-436.890	-56.310	-5.406	1439.02
43	-438.700	-56.280	-5.416	1439
42	-441.290	-56.260	-5.406	1438.97
41	-442.150	-56.250	-5.406	1438.96
40	-444.740	-56.230	-5.386	1438.93
39	-447.320	-56.200	-5.456	1438.9
38	-449.910	-56.180	-5.466	1438.87
37	-451.630	-56.160	-5.536	1438.85
36	-453.360	-56.150	-5.496	1438.83
35	-455.080	-56.130	-5.536	1438.81
34	-456.810	-56.120	-5.556	1438.79
33	-458.530	-56.100	-5.616	1438.77
32	-461.120	-56.080	-5.586	1438.74

264	-68.361	-44.770	-0.309	1428.12
263	-70.595	-44.649	-0.330	1428.1
262	-73.095	-44.743	-0.348	1428.09
261	-75.922	-44.591	-0.452	1428.07
260	-79.839	-44.910	-0.467	1428.04
259	-83.034	-45.406	-0.434	1428.02
258	-87.248	-45.592	-0.362	1427.99
210	-89.720	-44.930	-0.523	1427.97
209	-91.010	-44.950	-0.473	1427.95
208	-91.650	-44.960	-0.453	1427.93
207	-92.930	-44.980	-0.453	1427.91
206	-94.860	-45.010	-0.453	1427.89
205	-96.140	-45.030	-0.443	1427.87
204	-98.060	-45.070	-0.393	1427.86
203	-99.350	-45.090	-0.373	1427.84
202	-100.630	-45.110	-0.373	1427.82
201	-101.910	-45.130	-0.373	1427.81
200	-103.200	-45.150	-0.433	1427.79
199	-103.840	-45.160	-0.473	1427.78
198	-105.760	-45.190	-0.643	1427.77
197	-106.410	-45.200	-0.743	1427.76
196	-107.690	-45.220	-0.713	1427.75
195	-108.970	-45.240	-0.833	1427.74
194	-109.620	-45.250	-0.933	1427.73
193	-110.260	-45.260	-1.043	1427.72
192	-110.900	-45.270	-1.103	1427.71
191	-111.540	-45.280	-1.233	1427.68
190	-112.180	-45.290	-1.283	1427.65
189	-112.820	-45.300	-1.353	1427.63
188	-114.750	-45.340	-1.523	1427.61
187	-115.390	-45.350	-1.623	1427.58
186	-116.030	-45.360	-1.713	1427.57
185	-117.960	-45.390	-1.863	1427.53
184	-120.560	-45.390	-1.973	1427.5
183	-122.650	-45.370	-1.993	1427.48
182	-124.740	-45.350	-2.013	1427.44
181	-127.870	-45.320	-2.113	1427.4
180	-128.920	-45.320	-2.163	1427.39
179	-133.100	-45.280	-2.193	1427.36
178	-136.240	-45.250	-2.273	1427.34
177	-138.330	-45.240	-2.273	1427.31
176	-142.510	-45.200	-2.283	1427.28
175	-146.690	-45.170	-2.393	1427.24
174	-147.740	-45.160	-2.423	1427.22
173	-150.870	-45.130	-2.473	1427.19
172	-152.960	-45.110	-2.463	1427.16
171	-156.100	-45.090	-2.583	1427.13
170	-159.240	-45.060	-2.693	1427.1
169	-163.420	-45.030	-2.703	1427.08
168	-165.510	-45.010	-2.703	1427.05
167	-168.640	-44.980	-2.723	1427.02
166	-171.780	-44.960	-2.773	1427.01
165	-174.920	-44.930	-2.643	1426.98
164	-178.050	-44.900	-2.523	1426.95
163	-179.620	-44.890	-2.373	1426.93
162	-180.140	-44.890	-2.203	1426.92
161	-183.280	-44.860	-2.123	1426.89
160	-185.370	-44.840	-1.993	1426.87
159	-186.420	-44.830	-1.813	1426.8
158	-187.460	-44.820	-1.653	1426.7
157	-190.560	-44.780	-1.643	1426.6
156	-193.650	-44.730	-1.473	1426.5
155	-195.700	-44.700	-1.473	1426.4
154	-196.730	-44.680	-1.383	1426.3
153	-199.810	-44.630	-1.503	1426.2
152	-201.870	-44.590	-1.543	1426.1

31	-461.980	-56.070	-5.656	1438.73
30	-464.570	-56.040	-5.736	1438.7
29	-466.290	-56.030	-5.706	1438.68
28	-468.010	-56.010	-5.766	1438.66
27	-468.880	-56.000	-5.776	1438.65
26	-471.460	-55.980	-5.846	1438.62
25	-473.190	-55.960	-5.846	1438.6
24	-474.910	-55.950	-5.926	1438.58
23	-477.500	-55.930	-5.946	1438.55
22	-478.360	-55.920	-6.006	1438.54
21	-479.220	-55.910	-6.056	1438.53
20	-481.810	-55.890	-6.056	1438.5
19	-483.530	-55.870	-6.116	1438.48
18	-486.120	-55.850	-6.156	1438.45
17	-487.840	-55.830	-6.296	1438.43
16	-489.570	-55.810	-6.336	1438.41
15	-491.290	-55.800	-6.376	1438.39
14	-493.010	-55.780	-6.386	1438.37
13	-495.600	-55.760	-6.376	1438.34
12	-499.050	-55.730	-6.396	1438.3
11	-501.640	-55.700	-6.396	1438.27
10	-503.360	-55.690	-6.396	1438.25
9	-505.950	-55.660	-6.286	1438.22
8	-507.670	-55.650	-6.356	1438.2
7	-510.260	-55.630	-6.286	1438.17
6	-512.840	-55.600	-6.316	1438.14
5	-514.570	-55.590	-6.226	1438.12
4	-516.290	-55.570	-6.266	1438.1
3	-518.880	-55.550	-6.246	1438.07
2	-520.600	-55.530	-6.246	1438.05
1	-523.190	-55.510	-6.326	1438.02

NORTH LINE 3 (MERGED ON- & OFFSHORE PROFILES)				
10 December 1989 1545 to 1619 (CST) (ONSHORE)				
13 December 1989 1423 to 1433 (CST) (OFFSHORE)				
Average offset for 26 points = -0.246188				
PT #	X (m)	Y (m)	Z (m)	TIME COMMENTS
293	38.753	-45.862	2.619	
292	36.880	-45.131	2.391	
291	32.965	-45.292	2.148	
290	28.728	-44.742	2.134	
289	24.048	-44.730	2.159	
288	18.757	-45.406	2.184	
287	14.295	-44.702	2.188	
286	9.456	-44.032	2.286	
285	4.957	-44.829	2.533	
284	0.450	-44.985	2.745	
283	-2.569	-45.219	2.907	
282	-4.492	-45.093	2.805	
281	-6.913	-45.044	2.643	
280	-11.221	-45.443	2.249	
279	-15.123	-45.364	1.911	
278	-19.412	-45.363	1.700	
277	-24.227	-45.354	1.561	
276	-29.596	-45.664	1.425	
275	-32.870	-45.774	1.033	
274	-35.732	-45.550	0.864	
273	-45.869	-45.669	-0.080	
272	-51.725	-45.840	-0.183	
271	-56.941	-45.892	-0.219	
270	-60.471	-45.824	-0.226	
269	-62.926	-43.927	-0.327	
268	-63.283	-44.150	-0.423	
267	-63.897	-44.424	-0.315	
266	-64.979	-44.399	-0.170	
265	-66.578	-44.604	-0.201	

151	-202.890	-44.580	-1.503	1426.86	85	-367.500	-44.240	-4.313	1425.28
150	-205.980	-44.530	-1.623	1426.83	84	-369.610	-44.190	-4.393	1425.26
149	-208.030	-44.490	-1.643	1426.81	83	-371.710	-44.150	-4.393	1425.24
148	-210.090	-44.460	-1.703	1426.79	82	-374.870	-44.080	-4.363	1425.21
147	-212.140	-44.420	-1.743	1426.77	81	-376.980	-44.040	-4.423	1425.19
146	-213.170	-44.410	-1.803	1426.76	80	-380.140	-43.970	-4.543	1425.16
145	-216.250	-44.350	-1.913	1426.73	79	-382.240	-43.930	-4.513	1425.14
144	-218.310	-44.320	-1.993	1426.71	78	-385.400	-43.870	-4.583	1425.11
143	-221.390	-44.270	-2.043	1426.68	77	-386.460	-43.840	-4.663	1425.1
142	-223.450	-44.240	-2.183	1426.66	76	-390.670	-43.760	-4.703	1425.06
141	-225.500	-44.200	-2.193	1426.64	75	-394.880	-43.670	-4.813	1425.02
140	-227.560	-44.170	-2.193	1426.62	74	-399.110	-43.620	-4.913	1424.98
139	-229.610	-44.130	-2.293	1426.6	73	-403.350	-43.610	-5.013	1424.94
138	-232.690	-44.080	-2.423	1426.57	72	-405.470	-43.610	-5.103	1424.92
137	-234.750	-44.050	-2.403	1426.55	71	-408.650	-43.600	-5.203	1424.89
136	-236.810	-44.010	-2.443	1426.53	70	-411.830	-43.600	-5.373	1424.86
135	-239.890	-43.960	-2.583	1426.5	69	-413.950	-43.590	-5.533	1424.84
134	-240.930	-43.980	-2.603	1426.49	68	-416.080	-43.590	-5.623	1424.82
133	-244.050	-44.030	-2.653	1426.46	67	-418.200	-43.580	-5.723	1424.8
132	-246.130	-44.070	-2.723	1426.44	66	-420.320	-43.580	-5.873	1424.78
131	-248.220	-44.100	-2.793	1426.42	65	-421.380	-43.580	-6.023	1424.77
130	-249.260	-44.120	-2.903	1426.41	64	-422.440	-43.570	-6.143	1424.74
129	-252.380	-44.180	-2.913	1426.38	63	-424.560	-43.570	-6.263	1424.76
128	-255.500	-44.230	-2.913	1426.35	62	-426.680	-43.570	-6.193	1424.72
127	-258.620	-44.280	-2.993	1426.32	61	-428.800	-43.560	-6.173	1424.7
126	-260.710	-44.320	-3.033	1426.3	60	-431.980	-43.550	-6.233	1424.67
125	-263.830	-44.370	-3.033	1426.27	59	-433.040	-43.550	-6.283	1424.66
124	-265.910	-44.410	-3.113	1426.25	58	-434.100	-43.550	-6.233	1424.65
123	-270.070	-44.480	-3.153	1426.21	57	-435.170	-43.550	-6.193	1424.64
122	-272.160	-44.520	-3.213	1426.19	56	-436.230	-43.550	-6.113	1424.63
121	-275.280	-44.570	-3.303	1426.16	55	-439.410	-43.540	-6.093	1424.6
120	-278.400	-44.620	-3.323	1426.13	54	-441.530	-43.540	-5.993	1424.58
119	-281.520	-44.680	-3.373	1426.1	53	-443.650	-43.530	-5.923	1424.56
118	-283.610	-44.710	-3.413	1426.08	52	-446.830	-43.530	-5.843	1424.53
117	-285.690	-44.750	-3.473	1426.06	51	-447.890	-43.520	-5.913	1424.52
116	-288.810	-44.800	-3.453	1426.03	50	-448.950	-43.520	-5.963	1424.51
115	-291.930	-44.850	-3.553	1425.98	49	-451.100	-43.540	-5.913	1424.49
114	-294.030	-44.850	-3.583	1425.98	48	-453.270	-43.570	-5.883	1424.47
113	-297.170	-44.840	-3.593	1425.95	47	-456.520	-43.620	-5.903	1424.44
112	-298.220	-44.840	-3.563	1425.94	46	-459.770	-43.660	-5.913	1424.41
111	-300.320	-44.830	-3.623	1425.92	45	-461.940	-43.700	-5.913	1424.39
110	-302.410	-44.830	-3.643	1425.9	44	-464.110	-43.730	-5.883	1424.37
109	-304.510	-44.820	-3.643	1425.88	43	-467.360	-43.780	-6.033	1424.34
108	-308.700	-44.810	-3.683	1425.84	42	-470.620	-43.820	-6.033	1424.31
107	-311.850	-44.800	-3.673	1425.81	41	-472.790	-43.860	-6.033	1424.29
106	-313.940	-44.790	-3.753	1425.79	40	-476.040	-43.900	-6.113	1424.26
105	-316.040	-44.790	-3.773	1425.77	39	-477.120	-43.920	-6.183	1424.25
104	-318.140	-44.780	-3.733	1425.75	38	-480.380	-43.970	-6.183	1424.22
103	-321.280	-44.770	-3.813	1425.72	37	-482.550	-44.000	-6.283	1424.2
102	-324.420	-44.770	-3.863	1425.69	36	-483.630	-44.020	-6.333	1424.19
101	-326.520	-44.760	-3.903	1425.67	35	-487.970	-44.080	-6.433	1424.15
100	-329.660	-44.750	-3.943	1425.64	34	-491.220	-44.130	-6.533	1424.12
99	-330.710	-44.750	-3.903	1425.63	33	-494.480	-44.180	-6.673	1424.09
98	-334.910	-44.740	-3.983	1425.59	32	-497.730	-44.220	-6.673	1424.06
97	-337.000	-44.730	-4.043	1425.57	31	-499.900	-44.260	-6.763	1424.04
96	-340.150	-44.720	-4.043	1425.54	30	-502.070	-44.290	-6.683	1424.02
95	-342.240	-44.720	-4.063	1425.52	29	-503.150	-44.300	-6.903	1424.01
94	-344.340	-44.710	-4.063	1425.5	28	-505.230	-44.370	-6.793	1423.99
93	-347.500	-44.650	-4.123	1425.47	27	-508.200	-44.530	-6.893	1423.96
92	-350.660	-44.580	-4.123	1425.44	26	-510.190	-44.640	-6.893	1423.94
91	-353.810	-44.520	-4.163	1425.41	25	-512.170	-44.750	-6.903	1423.92
90	-355.920	-44.470	-4.173	1425.39	24	-514.160	-44.850	-6.833	1423.9
89	-358.030	-44.430	-4.243	1425.37	23	-518.130	-45.070	-6.933	1423.86
88	-360.130	-44.390	-4.243	1425.35	22	-520.110	-45.180	-6.933	1423.84
87	-361.190	-44.370	-4.273	1425.34	21	-522.100	-45.280	-6.973	1423.82
86	-364.340	-44.300	-4.303	1425.31	20	-523.090	-45.340	-7.003	1423.81

PT. #	X (m)	Y (m)	Z (m)	TIME COMMENTS
19	-525.070	-45.440	-6.973	1423.79
18	-526.060	-45.500	-6.913	1423.78
17	-528.050	-45.600	-6.913	1423.76
16	-529.040	-45.660	-6.913	1423.75
15	-532.020	-45.820	-6.903	1423.72
14	-534.000	-45.930	-6.893	1423.7
13	-534.990	-45.980	-6.913	1423.69
12	-536.980	-46.090	-6.863	1423.67
11	-537.970	-46.140	-6.823	1423.66
10	-539.960	-46.250	-6.913	1423.64
9	-540.950	-46.300	-6.913	1423.63
8	-542.930	-46.410	-6.903	1423.61
7	-544.920	-46.510	-6.823	1423.59
6	-545.910	-46.570	-6.983	1423.58
5	-546.900	-46.620	-7.043	1423.57
4	-548.890	-46.730	-6.943	1423.55
3	-549.880	-46.780	-7.053	1423.54
2	-551.860	-46.890	-7.093	1423.52
1	-553.850	-47.000	-7.153	1423.5

NORTH LINE 2 (MERGED ON- & OFFSHORE PROFILES)
 10 December 1989 1510 to 1543 (CST)
 13 December 1989 1409 to 1420 (CST) (ONSHORE)

206	-118.450	-29.080	-1.305	1414.29
205	-119.440	-29.060	-1.375	1414.28
204	-121.420	-29.030	-1.485	1414.26
203	-124.390	-28.980	-1.605	1414.23
202	-128.350	-28.910	-1.655	1414.19
201	-130.340	-28.880	-1.745	1414.17
200	-132.320	-28.850	-1.805	1414.15
199	-134.300	-28.810	-1.805	1414.13
198	-137.270	-28.760	-1.865	1414.1
197	-141.230	-28.700	-1.945	1414.06
196	-144.200	-28.640	-1.985	1414.03
195	-147.170	-28.590	-2.085	1414
194	-150.140	-28.540	-2.135	1413.93
193	-154.100	-28.480	-2.255	1413.93
192	-156.080	-28.440	-2.435	1413.91
191	-158.060	-28.410	-2.465	1413.89
190	-161.030	-28.360	-2.515	1413.86
189	-165.000	-28.290	-2.625	1413.82
188	-167.970	-28.240	-2.665	1413.79
187	-171.930	-28.180	-2.735	1413.75
186	-176.880	-28.090	-2.735	1413.7
185	-180.840	-28.020	-2.625	1413.66
184	-183.810	-27.970	-2.495	1413.63
183	-184.800	-27.960	-2.345	1413.62
182	-186.780	-27.920	-2.225	1413.6
181	-188.760	-27.890	-2.125	1413.58
180	-189.750	-27.870	-1.995	1413.57
179	-190.740	-27.860	-1.785	1413.56
178	-193.720	-27.810	-1.645	1413.53
177	-197.710	-27.770	-1.555	1413.49
176	-200.790	-27.810	-1.505	1413.46
175	-202.840	-27.830	-1.545	1413.44
174	-205.920	-27.870	-1.615	1413.41
173	-210.020	-27.920	-1.655	1413.37
172	-213.100	-27.960	-1.805	1413.34
171	-215.160	-27.990	-1.785	1413.32
170	-219.260	-28.040	-1.935	1413.28
169	-223.360	-28.090	-2.035	1413.24
168	-225.420	-28.120	-2.155	1413.22
167	-227.470	-28.150	-2.235	1413.2
166	-230.550	-28.180	-2.235	1413.17
165	-233.620	-28.220	-2.345	1413.14
164	-237.730	-28.280	-2.415	1413.1
163	-239.780	-28.300	-2.495	1413.08
162	-240.810	-28.310	-2.615	1413.07
161	-243.880	-28.350	-2.565	1413.04
160	-246.960	-28.390	-2.695	1413.01
159	-249.970	-28.400	-2.765	1412.98
158	-252.940	-28.390	-2.825	1412.95
157	-255.910	-28.380	-2.875	1412.92
156	-258.880	-28.370	-2.945	1412.89
155	-259.870	-28.360	-3.035	1412.88
154	-262.840	-28.350	-3.065	1412.85
153	-264.820	-28.340	-3.035	1412.83
152	-266.800	-28.340	-3.095	1412.81
151	-269.770	-28.330	-3.185	1412.78
150	-271.750	-28.320	-3.175	1412.76
149	-274.730	-28.310	-3.225	1412.73
148	-276.710	-28.300	-3.305	1412.71
147	-277.700	-28.300	-3.245	1412.7
146	-278.690	-28.290	-3.245	1412.69
145	-280.670	-28.290	-3.375	1412.67
144	-283.640	-28.280	-3.415	1412.64
143	-284.630	-28.270	-3.375	1412.63
142	-287.600	-28.260	-3.445	1412.6
141	-290.570	-28.250	-3.485	1412.57

140	-295.520	-28.230	-3.495	1412.52
139	-297.500	-28.230	-3.525	1412.5
138	-300.530	-28.280	-3.595	1412.47
137	-303.560	-28.330	-3.595	1412.44
136	-307.600	-28.400	-3.675	1412.4
135	-310.630	-28.450	-3.675	1412.37
134	-315.680	-28.540	-3.715	1412.32
133	-319.710	-28.610	-3.725	1412.28
132	-322.740	-28.670	-3.765	1412.25
131	-326.780	-28.740	-3.825	1412.21
130	-329.810	-28.790	-3.755	1412.18
129	-330.820	-28.810	-3.865	1412.17
128	-332.840	-28.840	-3.865	1412.15
127	-335.870	-28.890	-3.875	1412.12
126	-338.900	-28.950	-3.835	1412.09
125	-341.930	-29.000	-3.985	1412.06
124	-345.970	-29.070	-3.915	1412.02
123	-347.990	-29.110	-4.045	1412
122	-351.050	-29.100	-4.065	1411.97
121	-355.130	-29.080	-4.105	1411.93
120	-358.200	-29.070	-4.135	1411.9
119	-361.260	-29.060	-4.205	1411.87
118	-365.340	-29.050	-4.235	1411.83
117	-367.380	-29.040	-4.305	1411.81
116	-369.430	-29.040	-4.255	1411.79
115	-373.510	-29.020	-4.385	1411.75
114	-376.570	-29.010	-4.435	1411.72
113	-381.680	-29.000	-4.505	1411.67
112	-383.720	-28.990	-4.645	1411.65
111	-386.780	-28.980	-4.595	1411.62
110	-388.820	-28.970	-4.705	1411.6
109	-390.870	-28.970	-4.785	1411.58
108	-392.910	-28.960	-4.805	1411.56
107	-395.970	-28.950	-4.895	1411.53
106	-400.020	-28.940	-5.005	1411.49
105	-402.010	-28.930	-5.085	1411.47
104	-403.990	-28.910	-5.145	1411.45
103	-405.970	-28.900	-5.225	1411.43
102	-410.920	-28.870	-5.365	1411.38
101	-412.900	-28.860	-5.455	1411.36
100	-415.870	-28.850	-5.575	1411.33
99	-416.860	-28.840	-5.675	1411.32
98	-417.850	-28.840	-5.765	1411.31
97	-418.840	-28.830	-5.865	1411.3
96	-419.830	-28.820	-5.935	1411.29
95	-421.810	-28.810	-6.025	1411.27
94	-423.800	-28.800	-6.125	1411.25
93	-426.770	-28.790	-6.195	1411.22
92	-427.760	-28.780	-6.255	1411.21
91	-428.750	-28.770	-6.045	1411.2
90	-430.730	-28.760	-6.175	1411.18
89	-432.710	-28.750	-6.245	1411.16
88	-435.680	-28.730	-6.325	1411.13
87	-437.660	-28.720	-6.395	1411.11
86	-439.640	-28.710	-6.495	1411.09
85	-441.620	-28.700	-6.505	1411.07
84	-444.590	-28.680	-6.505	1411.04
83	-447.570	-28.670	-6.515	1411.01
82	-450.540	-28.640	-6.585	1410.98
81	-452.720	-28.620	-6.595	1410.96
80	-454.800	-28.600	-6.665	1410.94
79	-456.880	-28.570	-6.515	1410.92
78	-458.960	-28.550	-6.685	1410.9
77	-462.080	-28.520	-6.505	1410.87
76	-463.120	-28.510	-6.685	1410.86
75	-465.200	-28.490	-6.745	1410.84

74	-467.280	-28.470	-6.785	1410.82
73	-469.370	-28.440	-6.695	1410.8
72	-470.410	-28.430	-6.635	1410.79
71	-471.450	-28.420	-6.835	1410.78
70	-473.530	-28.400	-6.835	1410.76
69	-474.570	-28.390	-6.765	1410.75
68	-476.650	-28.370	-6.635	1410.73
67	-477.690	-28.360	-6.845	1410.72
66	-478.730	-28.350	-6.985	1410.71
65	-481.850	-28.310	-6.965	1410.68
64	-484.970	-28.280	-6.965	1410.65
63	-486.010	-28.270	-6.815	1410.64
62	-487.050	-28.260	-6.635	1410.63
61	-490.180	-28.230	-6.785	1410.6
60	-492.260	-28.200	-6.655	1410.58
59	-495.380	-28.170	-6.845	1410.55
58	-498.500	-28.140	-6.775	1410.52
57	-500.580	-28.120	-6.855	1410.5
56	-502.700	-28.170	-6.805	1410.48
55	-504.820	-28.230	-6.785	1410.46
54	-505.890	-28.260	-7.005	1410.45
53	-509.070	-28.340	-7.005	1410.42
52	-513.310	-28.450	-7.085	1410.38
51	-515.440	-28.510	-6.975	1410.36
50	-518.620	-28.590	-7.005	1410.33
49	-519.680	-28.620	-6.845	1410.32
48	-521.800	-28.670	-7.085	1410.3
47	-523.400	-28.710	-7.255	1410.285
46	-523.930	-28.730	-7.035	1410.28
45	-524.990	-28.760	-6.785	1410.27
44	-528.170	-28.840	-7.085	1410.24
43	-529.230	-28.870	-7.115	1410.23
42	-532.420	-28.950	-7.125	1410.2
41	-534.010	-28.990	-7.045	1410.185
40	-534.540	-29.010	-6.925	1410.18
39	-536.660	-29.060	-7.195	1410.16
38	-539.320	-29.130	-7.185	1410.135
37	-539.850	-29.140	-7.075	1410.13
36	-540.910	-29.170	-6.935	1410.12
35	-543.030	-29.230	-7.115	1410.1
34	-544.090	-29.250	-7.255	1410.09
33	-546.210	-29.310	-7.265	1410.07
32	-549.310	-29.350	-7.195	1410.04
31	-550.280	-29.340	-6.955	1410.03
30	-551.260	-29.330	-7.275	1410.02
29	-552.230	-29.320	-7.305	1410.01
28	-555.150	-29.280	-7.305	1409.98
27	-556.610	-29.260	-7.375	1409.965
26	-557.100	-29.250	-7.235	1409.96
25	-560.020	-29.220	-7.255	1409.93
24	-561.970	-29.190	-7.185	1409.91
23	-562.940	-29.180	-7.265	1409.9
22	-564.890	-29.150	-7.225	1409.88
21	-566.840	-29.130	-7.105	1409.86
20	-570.240	-29.090	-6.965	1409.825
19	-570.730	-29.080	-7.195	1409.82
18	-572.680	-29.050	-7.185	1409.8
17	-574.620	-29.030	-7.155	1409.78
16	-576.570	-29.000	-7.105	1409.76
15	-578.520	-28.980	-7.005	1409.74
14	-579.490	-28.970	-7.085	1409.73
13	-581.440	-28.940	-7.085	1409.71
12	-583.870	-28.910	-7.045	1409.685
11	-584.360	-28.910	-6.925	1409.68
10	-586.310	-28.880	-7.075	1409.66
9	-588.260	-28.860	-7.145	1409.64

290	-113.490	-12.850	-1.306	1359.51
289	-115.630	-12.830	-1.306	1359.48
288	-117.150	-12.810	-1.356	1359.46
287	-117.900	-12.810	-1.416	1359.45
286	-119.420	-12.800	-1.466	1359.43
285	-121.690	-12.780	-1.496	1359.4
284	-123.960	-12.760	-1.536	1359.37
283	-125.480	-12.740	-1.576	1359.35
282	-126.990	-12.730	-1.626	1359.33
281	-128.510	-12.720	-1.626	1359.31
280	-130.020	-12.710	-1.666	1359.29
279	-132.290	-12.690	-1.686	1359.26
278	-133.810	-12.670	-1.746	1359.24
277	-136.080	-12.650	-1.746	1359.21
276	-137.600	-12.640	-1.806	1359.19
275	-138.350	-12.630	-1.856	1359.18
274	-140.630	-12.620	-1.846	1359.15
273	-144.410	-12.580	-1.976	1359.1
272	-145.930	-12.570	-1.936	1359.08
271	-147.440	-12.560	-1.936	1359.06
270	-148.960	-12.540	-1.976	1359.04
269	-150.470	-12.530	-1.926	1359.02
268	-151.990	-12.520	-1.906	1359
267	-154.200	-12.430	-2.046	1358.97
266	-155.670	-12.380	-1.976	1358.95
265	-156.410	-12.350	-2.046	1358.94
264	-157.880	-12.290	-2.056	1358.92
263	-159.360	-12.240	-2.016	1358.9
262	-160.830	-12.180	-2.086	1358.88
261	-162.300	-12.120	-2.176	1358.86
260	-163.040	-12.100	-2.166	1358.85
259	-165.250	-12.010	-2.136	1358.82
258	-165.990	-11.980	-2.216	1358.81
257	-166.730	-11.960	-2.306	1358.8
256	-168.940	-11.870	-2.276	1358.77
255	-169.680	-11.840	-2.386	1358.76
254	-170.410	-11.810	-2.436	1358.75
253	-171.890	-11.760	-2.526	1358.73
252	-174.100	-11.670	-2.596	1358.7
251	-176.310	-11.590	-2.596	1358.67
250	-177.780	-11.530	-2.586	1358.65
249	-179.260	-11.480	-2.566	1358.63
248	-180.730	-11.420	-2.526	1358.61
247	-182.940	-11.330	-2.506	1358.58
246	-183.680	-11.310	-2.376	1358.57
245	-185.150	-11.250	-2.326	1358.55
244	-187.360	-11.170	-2.216	1358.52
243	-188.840	-11.110	-2.106	1358.5
242	-189.530	-11.090	-1.986	1358.49
238	-190.220	-11.080	-1.876	1358.48
241	-190.220	-11.080	-1.876	1358.48
237	-191.610	-11.050	-1.826	1358.46
240	-191.610	-11.050	-1.836	1358.46
236	-193.000	-11.020	-1.676	1358.44
235	-193.690	-11.000	-1.576	1358.43
239	-193.690	-11.000	-1.616	1358.43
234	-196.460	-10.940	-1.606	1358.39
233	-197.850	-10.910	-1.546	1358.37
232	-198.540	-10.890	-1.426	1358.36
231	-200.620	-10.850	-1.536	1358.33
229	-202.010	-10.820	-1.496	1358.31
229	-204.780	-10.760	-1.546	1358.27
228	-205.470	-10.740	-1.506	1358.26
227	-208.240	-10.680	-1.656	1358.22
226	-209.630	-10.650	-1.576	1358.2
225	-211.710	-10.600	-1.726	1358.17

NORTH LINE 1 (MERGED ON- & OFFSHORE PROFILES)
 10 December 1989 1450 to 1508 (CST) (ONSHORE)
 13 December 1989 1354 to 1405 (CST) (OFFSHORE)
 Average offset for 14 points = -0.15852

PT. #	X (m)	Y (m)	Z (m)	TIME	COMMENTS
177	44.651	-14.232	3.016		
176	38.796	-14.556	2.583		
175	33.631	-14.564	2.385		
174	29.145	-14.657	2.249		
173	24.462	-14.735	2.172		
172	19.212	-14.999	2.150		
171	13.621	-14.887	2.184		
170	9.380	-14.889	2.290		
169	4.693	-14.909	2.524		
168	0.089	-15.004	2.784		
167	-3.603	-14.924	2.950		
166	-5.564	-14.855	2.864		
165	-10.909	-15.081	2.517		
164	-15.536	-15.041	2.113		
163	-19.886	-15.047	1.797		
162	-25.911	-15.510	1.490		
161	-30.133	-15.339	1.427		
160	-33.537	-15.234	1.104		
159	-37.583	-14.545	0.870		
158	-50.566	-15.147	-0.251		
157	-54.669	-15.451	-0.332		
156	-59.004	-15.029	-0.304		
155	-61.418	-15.131	-0.256		
154	-69.081	-14.790	-0.228		
153	-72.989	-15.346	-0.277		
152	-77.111	-15.545	-0.327		
151	-82.149	-16.080	-0.497		
150	-87.412	-15.268	-0.645		
314	-90.450	-13.210	-0.686		1359.88
313	-90.760	-13.200	-0.736		1359.875
312	-91.070	-13.200	-0.686		1359.87
311	-92.320	-13.180	-0.606		1359.85
310	-94.190	-13.150	-0.556		1359.82
309	-95.430	-13.130	-0.646		1359.8
307	-96.680	-13.110	-0.616		1359.78
308	-96.680	-13.110	-0.696		1359.78
306	-97.300	-13.100	-0.576		1359.77
305	-97.920	-13.090	-0.456		1359.76
304	-99.170	-13.070	-0.436		1359.74
303	-99.790	-13.060	-0.496		1359.73
302	-100.410	-13.050	-0.576		1359.72
301	-101.660	-13.030	-0.576		1359.7
300	-102.910	-13.010	-0.616		1359.68
299	-104.150	-12.990	-0.626		1359.66
297	-106.020	-12.970	-0.776		1359.63
298	-106.020	-12.970	-0.696		1359.63
296	-106.640	-12.960	-0.846		1359.62
295	-108.510	-12.930	-0.896		1359.59
294	-109.130	-12.920	-0.936		1359.58
293	-110.380	-12.900	-1.036		1359.56
292	-111.620	-12.880	-1.146		1359.54
291	-112.250	-12.870	-1.216		1359.53

158	-317.170	-9.530	-3.546	1356.87
157	-317.990	-9.500	-3.586	1356.86
156	-319.620	-9.420	-3.606	1356.84
155	-320.430	-9.380	-3.606	1356.83
154	-322.060	-9.300	-3.606	1356.81
153	-323.690	-9.220	-3.606	1356.79
152	-324.510	-9.180	-3.646	1356.78
151	-326.140	-9.100	-3.696	1356.76
150	-326.950	-9.060	-3.716	1356.75
149	-328.580	-8.980	-3.656	1356.73
148	-329.390	-8.940	-3.626	1356.72
147	-331.020	-8.860	-3.686	1356.7
146	-331.840	-8.820	-3.726	1356.69
145	-333.470	-8.750	-3.726	1356.67
144	-335.100	-8.670	-3.736	1356.65
143	-336.730	-8.590	-3.736	1356.63
142	-338.360	-8.510	-3.736	1356.61
141	-339.170	-8.470	-3.796	1356.6
140	-339.990	-8.430	-3.846	1356.59
139	-341.620	-8.350	-3.846	1356.57
138	-342.430	-8.310	-3.836	1356.56
137	-344.060	-8.230	-3.836	1356.54
136	-345.690	-8.150	-3.896	1356.52
135	-348.180	-8.120	-3.946	1356.49
134	-349.900	-8.210	-3.966	1356.47
133	-351.620	-8.300	-3.996	1356.45
132	-354.200	-8.440	-3.996	1356.42
131	-355.060	-8.490	-4.036	1356.41
130	-356.780	-8.580	-4.066	1356.39
129	-358.510	-8.670	-4.106	1356.37
128	-360.230	-8.760	-4.136	1356.35
127	-361.090	-8.810	-4.106	1356.34
126	-361.950	-8.860	-4.106	1356.33
125	-362.810	-8.900	-4.156	1356.32
124	-364.530	-8.990	-4.226	1356.3
123	-365.390	-9.040	-4.146	1356.29
122	-367.970	-9.180	-4.236	1356.26
121	-368.830	-9.220	-4.326	1356.25
120	-371.410	-9.360	-4.236	1356.22
119	-374.000	-9.500	-4.376	1356.19
118	-374.860	-9.550	-4.366	1356.18
117	-377.440	-9.680	-4.406	1356.15
116	-378.300	-9.730	-4.406	1356.14
115	-379.160	-9.780	-4.466	1356.13
114	-381.740	-9.910	-4.566	1356.1
113	-383.460	-10.010	-4.536	1356.08
112	-385.180	-10.100	-4.616	1356.06
111	-387.770	-10.240	-4.656	1356.03
110	-389.490	-10.340	-4.706	1356.01
109	-391.280	-10.340	-4.786	1355.99
108	-395.010	-10.230	-4.796	1355.95
107	-396.880	-10.170	-4.876	1355.93
106	-398.750	-10.110	-4.936	1355.91
105	-400.610	-10.050	-4.946	1355.89
104	-402.480	-9.990	-4.936	1355.87
103	-405.280	-9.910	-5.026	1355.84
102	-407.140	-9.850	-5.086	1355.82
101	-409.010	-9.790	-5.066	1355.8
100	-411.810	-9.700	-5.176	1355.77
99	-412.740	-9.670	-5.206	1355.76
98	-415.540	-9.590	-5.316	1355.73
97	-417.410	-9.530	-5.366	1355.71
96	-419.280	-9.470	-5.476	1355.69
95	-421.140	-9.410	-5.576	1355.67
94	-422.080	-9.380	-5.666	1355.66
93	-423.010	-9.350	-5.746	1355.65

224	-213.790	-10.560	-1.696	1358.14
223	-215.870	-10.510	-1.776	1358.11
222	-217.250	-10.480	-1.826	1358.09
221	-219.330	-10.430	-1.896	1358.06
220	-220.720	-10.400	-1.956	1358.04
219	-223.490	-10.340	-2.036	1358
218	-225.120	-10.390	-2.076	1357.98
217	-226.740	-10.440	-2.116	1357.96
216	-227.550	-10.470	-2.156	1357.95
215	-229.180	-10.520	-2.196	1357.93
214	-230.800	-10.570	-2.266	1357.91
213	-232.420	-10.620	-2.266	1357.89
212	-234.050	-10.670	-2.286	1357.87
211	-236.480	-10.740	-2.386	1357.84
210	-237.300	-10.770	-2.406	1357.83
209	-238.920	-10.820	-2.506	1357.81
208	-239.730	-10.840	-2.546	1357.8
207	-242.170	-10.920	-2.546	1357.77
206	-243.790	-10.970	-2.616	1357.75
205	-245.420	-11.020	-2.676	1357.73
204	-247.040	-11.070	-2.716	1357.71
203	-247.850	-11.090	-2.666	1357.7
202	-250.290	-11.170	-2.706	1357.67
201	-251.100	-11.190	-2.756	1357.66
200	-251.910	-11.220	-2.816	1357.65
199	-253.540	-11.270	-2.846	1357.63
198	-255.160	-11.320	-2.816	1357.61
197	-256.790	-11.370	-2.856	1357.59
196	-258.410	-11.420	-2.926	1357.57
195	-260.030	-11.470	-2.946	1357.55
194	-261.660	-11.520	-2.986	1357.53
193	-262.470	-11.540	-2.936	1357.52
192	-263.280	-11.570	-2.976	1357.51
191	-264.940	-11.560	-3.026	1357.49
190	-267.490	-11.470	-3.066	1357.46
189	-269.190	-11.410	-3.066	1357.44
188	-270.040	-11.380	-3.066	1357.43
187	-271.740	-11.320	-3.106	1357.41
186	-272.590	-11.280	-3.176	1357.4
185	-274.290	-11.220	-3.216	1357.38
184	-275.990	-11.160	-3.176	1357.36
183	-277.690	-11.100	-3.206	1357.34
182	-280.240	-11.010	-3.256	1357.31
181	-281.090	-10.980	-3.296	1357.3
180	-282.790	-10.910	-3.296	1357.28
179	-284.490	-10.850	-3.356	1357.26
178	-286.190	-10.790	-3.356	1357.24
177	-287.040	-10.760	-3.356	1357.23
176	-289.590	-10.670	-3.376	1357.2
175	-291.290	-10.600	-3.396	1357.18
174	-293.840	-10.510	-3.436	1357.15
173	-295.540	-10.450	-3.436	1357.13
172	-297.240	-10.390	-3.436	1357.11
171	-298.090	-10.360	-3.446	1357.1
170	-299.780	-10.300	-3.516	1357.08
169	-301.480	-10.230	-3.516	1357.06
168	-303.180	-10.170	-3.556	1357.04
167	-304.030	-10.140	-3.556	1357.03
166	-305.730	-10.080	-3.516	1357.01
165	-307.400	-10.010	-3.536	1356.99
164	-309.030	-9.930	-3.506	1356.97
163	-309.840	-9.890	-3.506	1356.96
162	-311.470	-9.810	-3.576	1356.94
161	-313.100	-9.730	-3.606	1356.92
160	-313.920	-9.690	-3.576	1356.91
159	-315.540	-9.610	-3.536	1356.89

26	-496.810	-5.640	-6.866	1354.79
25	-497.540	-5.600	-6.916	1354.78
24	-498.280	-5.570	-6.916	1354.77
23	-499.010	-5.540	-6.806	1354.76
22	-500.480	-5.470	-6.866	1354.74
21	-501.220	-5.440	-6.906	1354.73
20	-501.950	-5.400	-6.946	1354.72
19	-503.050	-5.350	-6.846	1354.705
18	-503.420	-5.340	-6.776	1354.7
17	-504.150	-5.300	-6.666	1354.69
16	-504.890	-5.270	-6.576	1354.68
15	-505.620	-5.230	-6.606	1354.67
14	-505.990	-5.220	-6.466	1354.665
13	-506.350	-5.200	-6.306	1354.66
12	-507.090	-5.170	-6.236	1354.65
11	-508.560	-5.100	-6.166	1354.63
10	-510.030	-5.030	-6.216	1354.61
9	-510.760	-5.000	-6.156	1354.6
8	-512.230	-4.930	-6.056	1354.58
7	-512.960	-4.900	-6.196	1354.57
6	-514.430	-4.830	-6.286	1354.55
5	-515.170	-4.800	-6.196	1354.54
4	-515.900	-4.760	-6.316	1354.53
3	-516.630	-4.730	-6.466	1354.52
2	-517.000	-4.710	-6.666	1354.515
1	-517.370	-4.700	-6.806	1354.51

MAIN LINE (MERGED ON- & OFFSHORE PROFILES)
 10 December 1989 1250 to 1351 (CST) (ONSHORE)
 13 December 1989 1334 to 1345 (CST) (OFFSHORE)
 Average offset for 35 points = -0.060279 TIME COMMENTS

PT. #	X (m)	Y (m)	Z (m)	TIME	COMMENTS
0	36.080	0.000	3.163		
2	36.077	-0.006	3.167		
3	31.481	-0.139	3.020		
4	27.538	-0.179	2.783		
5	23.641	-0.183	2.566		
6	19.943	-0.199	2.404		
7	17.548	-0.326	2.393		
8	15.368	-0.137	2.299		
9	11.478	-0.184	2.257		
10	8.014	-0.106	2.372		
11	4.533	-0.007	2.512		
12	1.552	0.112	2.642		
13	0.006	-0.089	2.712		
14	-4.085	0.769	2.810		
15	-8.619	0.528	2.677		
16	-12.243	-0.050	2.424		
17	-15.791	-0.050	2.145		
18	-20.084	-0.067	1.872		
19	-23.634	-0.152	1.636		
20	-27.722	0.012	1.475		
21	-31.605	0.105	1.323		
22	-35.206	-0.041	1.040		
23	-39.098	-0.050	0.877		
24	-51.244	-0.856	-0.241		
25	-54.579	0.316	-0.278		
26	-58.927	0.552	-0.314		
27	-62.560	0.573	-0.301		
29	-72.084	-0.069	-0.203		
30	-76.107	1.316	-0.339		
31	-80.509	0.858	-0.305		
32	-85.750	0.048	-0.418		
33	-91.273	0.354	-0.549		
34	-96.675	0.604	-0.755		
35	-102.698	0.899	-0.877		

92	-424.870	-9.300	-5.846	1355.63
91	-425.810	-9.270	-5.976	1355.62
90	-427.670	-9.210	-6.116	1355.6
89	-428.610	-9.180	-6.126	1355.59
88	-430.470	-9.120	-6.086	1355.57
87	-432.340	-9.060	-6.126	1355.55
86	-433.270	-9.030	-6.146	1355.54
85	-435.140	-8.970	-6.266	1355.52
84	-436.070	-8.950	-6.366	1355.51
83	-437.010	-8.920	-6.276	1355.5
82	-437.890	-8.860	-6.236	1355.49
81	-439.230	-8.790	-6.186	1355.475
80	-439.670	-8.760	-6.266	1355.47
79	-441.000	-8.680	-6.376	1355.455
78	-441.440	-8.660	-6.226	1355.45
77	-443.220	-8.560	-6.226	1355.43
76	-444.110	-8.500	-6.266	1355.42
75	-445.880	-8.400	-6.276	1355.4
74	-447.660	-8.300	-6.306	1355.38
73	-449.430	-8.200	-6.346	1355.36
72	-450.320	-8.140	-6.386	1355.35
71	-451.210	-8.090	-6.446	1355.34
70	-452.980	-7.990	-6.386	1355.32
69	-453.870	-7.940	-6.466	1355.31
68	-454.760	-7.890	-6.536	1355.3
67	-455.650	-7.840	-6.656	1355.29
66	-457.420	-7.730	-6.746	1355.27
65	-459.200	-7.630	-6.766	1355.25
64	-460.090	-7.580	-6.686	1355.24
63	-460.530	-7.550	-6.656	1355.235
62	-460.970	-7.530	-6.546	1355.23
61	-461.860	-7.480	-6.466	1355.22
60	-462.310	-7.450	-6.456	1355.215
59	-462.750	-7.420	-6.606	1355.21
58	-463.640	-7.370	-6.716	1355.2
57	-465.410	-7.270	-6.656	1355.18
56	-466.300	-7.220	-6.686	1355.17
55	-467.630	-7.140	-6.696	1355.155
54	-468.080	-7.120	-6.766	1355.15
53	-469.850	-7.010	-6.826	1355.13
52	-470.740	-6.960	-6.716	1355.12
51	-472.510	-6.860	-6.676	1355.1
50	-472.960	-6.830	-6.606	1355.095
49	-473.400	-6.810	-6.536	1355.09
48	-474.290	-6.760	-6.486	1355.08
47	-475.180	-6.700	-6.686	1355.07
46	-476.510	-6.630	-6.586	1355.055
45	-476.950	-6.600	-6.696	1355.05
44	-477.840	-6.550	-6.826	1355.04
43	-478.730	-6.500	-6.846	1355.03
42	-480.500	-6.400	-6.796	1355.01
41	-481.390	-6.350	-6.756	1355
40	-482.860	-6.280	-6.836	1354.98
39	-483.590	-6.240	-6.776	1354.97
38	-484.330	-6.210	-6.686	1354.96
37	-485.800	-6.140	-6.696	1354.94
36	-486.530	-6.110	-6.726	1354.93
35	-488.730	-6.010	-6.716	1354.9
34	-490.200	-5.940	-6.676	1354.88
33	-490.940	-5.910	-6.696	1354.87
32	-492.400	-5.840	-6.696	1354.85
31	-493.140	-5.810	-6.716	1354.84
30	-493.870	-5.770	-6.656	1354.83
29	-494.610	-5.740	-6.616	1354.82
28	-495.340	-5.710	-6.716	1354.81
27	-496.080	-5.670	-6.796	1354.8

129	-261.450	-1.110	-2.877	1336.23
128	-263.730	-1.200	-2.897	1336.21
127	-266.000	-1.290	-2.897	1336.19
126	-269.410	-1.420	-2.997	1336.16
125	-270.550	-1.460	-3.027	1336.15
124	-273.960	-1.590	-3.027	1336.12
123	-276.230	-1.680	-3.077	1336.1
122	-277.370	-1.720	-3.127	1336.09
121	-280.780	-1.850	-3.117	1336.06
120	-284.190	-1.980	-3.217	1336.03
119	-285.320	-2.030	-3.227	1336.02
118	-287.600	-2.110	-3.257	1336
117	-289.800	-2.030	-3.227	1335.98
116	-292.010	-1.960	-3.267	1335.96
115	-293.110	-1.920	-3.277	1335.95
114	-295.320	-1.840	-3.347	1335.93
113	-298.630	-1.720	-3.357	1335.9
112	-300.840	-1.650	-3.337	1335.88
111	-303.050	-1.570	-3.357	1335.86
110	-304.150	-1.530	-3.397	1335.85
109	-306.360	-1.450	-3.397	1335.83
108	-307.460	-1.410	-3.467	1335.82
107	-309.670	-1.330	-3.437	1335.8
106	-310.770	-1.300	-3.357	1335.79
105	-311.870	-1.260	-3.437	1335.78
104	-314.080	-1.180	-3.507	1335.76
103	-315.180	-1.140	-3.537	1335.75
102	-317.390	-1.060	-3.507	1335.73
101	-319.600	-0.980	-3.477	1335.71
100	-321.810	-0.910	-3.507	1335.69
99	-322.910	-0.870	-3.577	1335.68
98	-326.220	-0.750	-3.577	1335.65
97	-328.430	-0.670	-3.537	1335.63
96	-329.530	-0.630	-3.617	1335.62
95	-331.740	-0.560	-3.647	1335.6
94	-333.940	-0.480	-3.687	1335.58
93	-337.250	-0.360	-3.657	1335.55
92	-339.460	-0.280	-3.637	1335.53
91	-340.570	-0.240	-3.727	1335.52
90	-342.770	-0.170	-3.817	1335.5
89	-345.550	-0.140	-3.787	1335.48
88	-349.020	-0.110	-3.807	1335.455
87	-349.720	-0.110	-3.867	1335.45
86	-353.890	-0.070	-3.897	1335.42
85	-355.280	-0.060	-3.927	1335.41
84	-358.060	-0.030	-3.977	1335.39
83	-360.840	-0.010	-3.977	1335.37
82	-363.610	0.020	-3.997	1335.35
81	-366.390	0.040	-4.097	1335.33
80	-369.170	0.070	-4.117	1335.31
79	-373.340	0.100	-4.137	1335.28
78	-376.120	0.130	-4.167	1335.26
77	-377.510	0.140	-4.237	1335.25
76	-378.900	0.150	-4.307	1335.24
75	-383.070	0.190	-4.307	1335.21
74	-385.850	0.210	-4.317	1335.19
73	-387.240	0.220	-4.407	1335.18
72	-390.020	0.250	-4.427	1335.16
71	-391.400	0.260	-4.407	1335.15
70	-394.180	0.290	-4.437	1335.13
69	-395.570	0.300	-4.547	1335.12
68	-396.960	0.310	-4.597	1335.11
67	-399.740	0.330	-4.587	1335.09
66	-401.130	0.350	-4.547	1335.08
65	-402.520	0.360	-4.597	1335.07
64	-405.300	0.380	-4.677	1335.05

36	-108.947	0.476	-0.754	
113	-110.390	-0.173	-0.838	
37	-115.289	0.451	-0.923	
38	-117.237	0.911	-1.053	
191	-121.210	-0.980	-1.587	1337.49
190	-123.480	-0.970	-1.647	1337.47
189	-124.620	-0.960	-1.817	1337.46
188	-126.900	-0.960	-1.947	1337.44
187	-129.180	-0.960	-1.997	1337.42
186	-132.590	-0.950	-2.077	1337.39
185	-137.150	-0.940	-2.087	1337.35
184	-140.560	-0.940	-2.087	1337.32
183	-142.840	-0.930	-2.177	1337.3
182	-145.120	-0.930	-2.107	1337.28
181	-147.400	-0.920	-2.107	1337.26
180	-149.670	-0.920	-2.147	1337.24
179	-151.950	-0.910	-2.217	1337.22
178	-154.230	-0.910	-2.117	1337.2
177	-158.780	-0.900	-2.157	1337.16
176	-162.200	-0.890	-2.237	1337.13
175	-164.480	-0.880	-2.257	1337.11
174	-166.750	-0.880	-2.277	1337.09
173	-170.170	-0.870	-2.347	1337.06
172	-172.450	-0.870	-2.467	1337.04
171	-174.720	-0.860	-2.487	1337.02
170	-177.000	-0.860	-2.417	1337
169	-179.150	-0.820	-2.277	1336.98
168	-182.380	-0.770	-2.267	1336.95
167	-183.450	-0.750	-2.157	1336.94
166	-185.600	-0.710	-2.037	1336.92
165	-187.750	-0.670	-1.917	1336.9
164	-188.290	-0.660	-1.807	1336.895
163	-188.830	-0.660	-1.667	1336.89
162	-189.900	-0.640	-1.587	1336.88
161	-193.130	-0.580	-1.667	1336.85
160	-194.200	-0.560	-1.447	1336.84
159	-197.430	-0.510	-1.407	1336.81
158	-198.500	-0.490	-1.407	1336.8
157	-200.660	-0.450	-1.397	1336.78
156	-202.810	-0.420	-1.427	1336.76
155	-204.960	-0.380	-1.407	1336.74
154	-207.110	-0.340	-1.447	1336.72
153	-209.260	-0.310	-1.527	1336.7
152	-211.410	-0.270	-1.597	1336.68
151	-213.560	-0.230	-1.597	1336.66
150	-214.630	-0.220	-1.657	1336.65
149	-215.710	-0.200	-1.777	1336.64
148	-216.780	-0.180	-1.807	1336.63
147	-218.930	-0.140	-1.817	1336.61
146	-221.080	-0.110	-1.847	1336.59
145	-222.160	-0.090	-1.927	1336.58
144	-224.310	-0.050	-2.007	1336.56
143	-226.460	-0.010	-2.047	1336.54
142	-228.610	0.020	-2.117	1336.52
141	-230.760	0.060	-2.207	1336.5
140	-233.170	-0.070	-2.207	1336.47
139	-235.310	-0.110	-2.267	1336.46
138	-237.580	-0.200	-2.347	1336.44
137	-239.850	-0.290	-2.437	1336.42
136	-243.260	-0.420	-2.477	1336.39
135	-246.670	-0.550	-2.587	1336.36
134	-247.810	-0.590	-2.607	1336.35
133	-250.080	-0.680	-2.647	1336.33
132	-252.360	-0.770	-2.747	1336.31
131	-254.630	-0.850	-2.747	1336.29
130	-259.180	-1.030	-2.807	1336.25

13 December 1989		1316 to 1327 (CST) (OFFSHORE)		TIME	
Average offset for 32 points = -0.079171					
PT. #	X (m)	Y (m)	Z (m)	COMMENTS	
130	28.302	16.106	3.128		
129	27.476	16.243	3.314		
128	12.209	16.295	2.513		
127	9.374	15.523	2.265		
126	4.166	15.260	2.464		
125	-0.305	15.013	2.648		
124	-2.277	14.922	2.683		
123	-6.949	14.945	2.681		
122	-9.268	14.957	2.553		
121	-15.359	15.126	2.190		
120	-20.300	14.921	1.883		
119	-22.671	14.964	1.743		
118	-28.161	14.971	1.476		
117	-34.794	15.045	1.303		
116	-39.016	14.952	0.998		
115	-43.640	15.023	0.507		
114	-53.006	15.192	-0.194		
113	-55.740	15.187	-0.263		
112	-57.484	15.323	-0.297		
111	-60.123	15.466	-0.303		
110	-63.875	16.149	-0.321		
109	-67.513	16.524	-0.331		
108	-74.990	17.640	-0.293		
107	-77.247	17.428	-0.241		
106	-80.192	17.217	-0.368		
105	-82.887	17.037	-0.330		
104	-86.012	17.391	-0.357		
103	-89.908	17.244	-0.427		
102	-92.125	16.662	-0.476		
101	-96.017	16.857	-0.557		
100	-100.099	16.870	-0.600		
214	-102.030	14.410	-0.276		
213	-104.030	14.390	-0.296		
212	-107.040	14.350	-0.346		
211	-109.040	14.330	-0.406		
210	-110.040	14.320	-0.516		
209	-111.040	14.300	-0.566		
208	-112.040	14.290	-0.606		
207	-114.050	14.270	-0.606		
206	-116.050	14.250	-0.696		
205	-118.050	14.220	-0.786		
204	-120.050	14.200	-0.886		
203	-121.060	14.190	-0.936		
202	-123.060	14.170	-1.056		
201	-125.060	14.140	-1.196		
200	-127.060	14.120	-1.276		
199	-128.060	14.110	-1.336		
198	-130.070	14.090	-1.416		
197	-133.070	14.050	-1.386		
196	-136.080	14.020	-1.446		
195	-137.120	13.990	-1.526		
194	-138.270	13.920	-1.596		
193	-139.410	13.860	-1.656		
192	-141.690	13.730	-1.656		
191	-143.970	13.610	-1.736		
190	-147.400	13.410	-1.856		
189	-149.680	13.290	-1.966		
188	-150.830	13.220	-1.976		
187	-154.250	13.030	-2.096		
186	-155.390	12.970	-2.186		
185	-156.530	12.910	-2.276		
184	-158.820	12.780	-2.426		
183	-161.100	12.650	-2.546		

63	-406.690	0.400	-4.767	1335.04
62	-408.080	0.410	-4.737	1335.03
61	-410.860	0.430	-4.697	1335.01
60	-413.040	0.360	-4.777	1334.99
59	-415.420	0.120	-4.847	1334.96
58	-417.790	-0.120	-4.887	1334.93
57	-421.750	-0.530	-4.867	1334.88
56	-424.130	-0.770	-4.927	1334.85
55	-426.510	-1.020	-4.967	1334.82
54	-428.880	-1.260	-5.017	1334.79
53	-432.840	-1.670	-5.017	1334.74
52	-435.220	-1.910	-5.017	1334.71
51	-436.810	-2.070	-5.097	1334.69
50	-441.560	-2.560	-5.107	1334.63
49	-446.310	-3.050	-5.147	1334.57
48	-449.480	-3.370	-5.257	1334.53
47	-454.230	-3.860	-5.367	1334.47
46	-459.780	-4.430	-5.447	1334.4
45	-462.160	-4.670	-5.557	1334.37
44	-464.530	-4.910	-5.687	1334.34
43	-466.120	-5.080	-5.837	1334.32
42	-466.910	-5.160	-5.917	1334.31
41	-469.290	-5.400	-6.027	1334.28
40	-471.660	-5.640	-5.997	1334.25
39	-474.830	-5.970	-5.987	1334.21
38	-476.420	-6.130	-5.927	1334.19
37	-479.590	-6.460	-5.917	1334.15
36	-483.550	-6.860	-5.927	1334.1
35	-485.920	-7.110	-6.047	1334.07
34	-488.300	-7.350	-6.097	1334.04
33	-489.880	-7.510	-6.157	1334.02
32	-492.260	-7.760	-6.227	1333.99
31	-494.640	-8.000	-6.307	1333.96
30	-497.010	-8.240	-6.447	1333.93
29	-497.810	-8.320	-6.537	1333.92
28	-498.600	-8.410	-6.217	1333.91
27	-499.390	-8.490	-6.077	1333.9
26	-502.160	-8.770	-5.857	1333.865
25	-502.560	-8.810	-6.147	1333.86
24	-505.730	-9.140	-6.157	1333.82
23	-508.900	-9.460	-6.167	1333.78
22	-509.690	-9.540	-6.237	1333.77
21	-513.650	-9.950	-6.347	1333.72
20	-515.240	-10.110	-6.267	1333.7
19	-519.200	-10.520	-6.207	1333.65
18	-520.780	-10.680	-6.317	1333.63
17	-523.160	-10.920	-6.357	1333.6
16	-526.330	-11.250	-6.467	1333.56
15	-528.700	-11.490	-6.547	1333.53
14	-531.080	-11.730	-6.347	1333.5
13	-534.250	-12.060	-6.507	1333.46
12	-535.040	-12.140	-6.407	1333.45
11	-536.630	-12.300	-6.477	1333.43
10	-539.790	-12.630	-6.517	1333.39
9	-542.170	-12.870	-6.437	1333.36
8	-546.130	-13.280	-6.487	1333.31
7	-547.720	-13.440	-6.567	1333.29
6	-549.300	-13.600	-6.557	1333.27
5	-551.680	-13.850	-6.547	1333.24
4	-555.640	-14.250	-6.547	1333.19
3	-556.430	-14.330	-6.677	1333.18
2	-558.810	-14.580	-6.787	1333.15
1	-560.390	-14.740	-6.557	1333.13

SOUTH LINE 1 (MERGED ON- & OFFSHORE PROFILES)
10 December 1989 1352 to 1433 (CST) (ONSHORE)

116	-285.600	10.010	-3.216	1318.73
115	-286.780	10.020	-3.286	1318.72
114	-290.330	10.030	-3.326	1318.69
113	-291.520	10.030	-3.296	1318.68
112	-293.880	10.040	-3.316	1318.66
111	-295.070	10.040	-3.306	1318.65
110	-296.250	10.050	-3.396	1318.64
109	-299.800	10.060	-3.396	1318.61
108	-300.980	10.060	-3.396	1318.6
107	-304.530	10.070	-3.456	1318.57
106	-308.080	10.080	-3.456	1318.54
105	-310.450	10.090	-3.456	1318.52
104	-311.630	10.100	-3.446	1318.51
103	-312.810	10.100	-3.496	1318.5
102	-313.910	10.110	-3.566	1318.49
101	-316.090	10.130	-3.536	1318.47
100	-318.280	10.150	-3.526	1318.45
99	-320.470	10.170	-3.516	1318.43
98	-322.650	10.190	-3.636	1318.41
97	-323.750	10.200	-3.666	1318.4
96	-325.940	10.220	-3.636	1318.38
95	-327.030	10.230	-3.596	1318.37
94	-328.120	10.240	-3.596	1318.36
93	-329.220	10.250	-3.656	1318.35
92	-330.310	10.260	-3.746	1318.34
91	-332.500	10.280	-3.796	1318.32
90	-333.590	10.290	-3.766	1318.31
89	-335.780	10.310	-3.766	1318.29
88	-339.060	10.340	-3.826	1318.26
87	-341.240	10.360	-3.846	1318.24
86	-342.340	10.370	-3.886	1318.23
85	-344.520	10.390	-3.956	1318.21
84	-346.710	10.410	-3.986	1318.19
83	-347.800	10.420	-3.996	1318.18
82	-349.990	10.440	-4.066	1318.16
81	-353.270	10.470	-4.076	1318.13
80	-355.460	10.490	-4.076	1318.11
79	-356.550	10.500	-4.136	1318.1
78	-357.650	10.510	-4.206	1318.09
77	-358.740	10.520	-4.216	1318.08
76	-360.930	10.540	-4.146	1318.06
75	-361.470	10.550	-4.226	1318.055
74	-362.020	10.550	-4.296	1318.05
73	-364.210	10.570	-4.356	1318.03
72	-365.300	10.580	-4.326	1318.02
71	-367.490	10.600	-4.306	1318
70	-368.650	10.590	-4.356	1317.99
69	-370.970	10.560	-4.416	1317.97
68	-372.130	10.540	-4.486	1317.96
67	-373.300	10.530	-4.546	1317.95
66	-376.780	10.490	-4.496	1317.92
65	-377.940	10.470	-4.556	1317.91
64	-379.100	10.460	-4.596	1317.9
63	-382.590	10.410	-4.626	1317.87
62	-383.750	10.400	-4.676	1317.86
61	-386.070	10.370	-4.716	1317.84
60	-388.400	10.340	-4.716	1317.82
59	-390.720	10.310	-4.776	1317.8
58	-391.880	10.300	-4.856	1317.79
57	-393.040	10.280	-4.826	1317.78
56	-395.370	10.250	-4.826	1317.76
55	-396.530	10.240	-4.876	1317.75
54	-398.850	10.210	-4.936	1317.73
53	-402.340	10.170	-5.006	1317.7
52	-403.500	10.150	-5.056	1317.69
51	-404.660	10.140	-5.006	1317.68

182	-164.530	12.460	-2.566	1319.79
181	-167.950	12.270	-2.686	1319.76
180	-169.090	12.210	-2.756	1319.75
179	-171.380	12.080	-2.626	1319.73
178	-173.660	11.950	-2.566	1319.71
177	-175.940	11.820	-2.426	1319.69
176	-177.080	11.760	-2.286	1319.68
175	-180.510	11.570	-2.176	1319.65
174	-182.790	11.440	-2.026	1319.63
173	-183.940	11.380	-1.896	1319.62
172	-186.220	11.250	-1.786	1319.6
171	-188.500	11.120	-1.716	1319.58
170	-190.790	11.000	-1.636	1319.56
169	-191.930	10.930	-1.526	1319.55
168	-193.070	10.870	-1.446	1319.54
167	-195.350	10.740	-1.426	1319.52
166	-197.640	10.620	-1.426	1319.5
165	-199.880	10.590	-1.346	1319.48
164	-201.000	10.570	-1.376	1319.47
163	-202.680	10.550	-1.486	1319.455
162	-203.240	10.540	-1.576	1319.45
161	-204.920	10.520	-1.566	1319.435
160	-205.480	10.520	-1.356	1319.43
159	-207.720	10.490	-1.466	1319.41
158	-209.960	10.460	-1.526	1319.39
157	-211.080	10.450	-1.606	1319.38
156	-213.320	10.420	-1.686	1319.36
155	-215.560	10.390	-1.726	1319.34
154	-218.920	10.350	-1.806	1319.31
153	-221.170	10.320	-1.876	1319.29
152	-222.290	10.300	-1.926	1319.28
151	-223.410	10.290	-1.986	1319.27
150	-225.650	10.260	-2.096	1319.25
149	-229.010	10.220	-2.146	1319.22
148	-230.130	10.200	-2.176	1319.21
147	-232.370	10.180	-2.206	1319.19
146	-233.490	10.160	-2.266	1319.18
145	-234.610	10.150	-2.336	1319.17
144	-236.850	10.120	-2.476	1319.15
143	-240.210	10.080	-2.456	1319.12
142	-241.330	10.060	-2.476	1319.11
141	-242.450	10.050	-2.536	1319.1
140	-244.690	10.020	-2.626	1319.08
139	-245.810	10.010	-2.686	1319.07
138	-248.060	9.980	-2.666	1319.05
137	-250.300	9.950	-2.676	1319.03
136	-251.420	9.940	-2.756	1319.02
135	-252.540	9.920	-2.816	1319.01
134	-254.840	9.910	-2.816	1318.99
133	-256.620	9.920	-2.796	1318.975
132	-257.210	9.920	-2.856	1318.97
131	-258.390	9.920	-2.916	1318.96
130	-260.760	9.930	-2.946	1318.94
129	-261.940	9.930	-2.916	1318.93
128	-263.120	9.940	-2.936	1318.92
127	-265.490	9.950	-2.986	1318.9
126	-267.860	9.950	-3.046	1318.88
125	-270.220	9.960	-3.066	1318.86
124	-271.400	9.960	-3.046	1318.85
123	-272.590	9.970	-3.106	1318.84
122	-273.770	9.970	-3.176	1318.83
121	-276.140	9.980	-3.206	1318.81
120	-277.320	9.980	-3.186	1318.8
119	-279.690	9.990	-3.176	1318.78
118	-282.050	10.000	-3.256	1318.76
117	-283.240	10.000	-3.216	1318.75

PT. #	X (m)	Y (m)	Z (m)	TIME	COMMENTS
50	-406.980	10.110	-5.096	1317.66	
49	-408.140	10.090	-5.166	1317.65	
48	-409.310	10.080	-5.206	1317.64	
47	-411.630	10.050	-5.176	1317.62	
46	-412.790	10.040	-5.276	1317.61	
45	-413.950	10.020	-5.326	1317.6	
44	-415.110	10.010	-5.406	1317.59	
43	-417.440	9.980	-5.436	1317.57	
42	-418.020	9.970	-5.546	1317.565	
41	-418.600	9.960	-5.626	1317.56	
40	-419.180	9.960	-5.746	1317.555	
39	-419.760	9.950	-5.856	1317.55	
38	-422.080	9.920	-5.996	1317.53	
37	-423.250	9.910	-5.916	1317.52	
36	-424.410	9.890	-6.066	1317.51	
35	-425.570	9.880	-6.186	1317.5	
34	-426.710	9.860	-6.276	1317.49	
33	-427.860	9.840	-6.376	1317.48	
32	-429.000	9.820	-6.236	1317.47	
31	-431.290	9.780	-6.296	1317.45	
30	-431.870	9.770	-6.336	1317.445	
29	-433.580	9.740	-6.456	1317.43	
28	-434.730	9.720	-6.376	1317.42	
27	-438.170	9.660	-6.346	1317.39	
26	-440.460	9.620	-6.346	1317.37	
25	-441.600	9.600	-6.386	1317.36	
24	-442.170	9.590	-6.276	1317.355	
23	-442.750	9.580	-6.186	1317.35	
22	-443.890	9.560	-6.236	1317.34	
21	-445.040	9.540	-6.376	1317.33	
20	-445.610	9.530	-6.446	1317.325	
19	-446.180	9.520	-6.316	1317.32	
18	-448.470	9.480	-6.236	1317.3	
17	-449.620	9.460	-6.226	1317.29	
16	-450.760	9.440	-6.306	1317.28	
15	-453.050	9.400	-6.306	1317.26	
14	-455.340	9.360	-6.306	1317.24	
13	-456.490	9.340	-6.196	1317.23	
12	-457.630	9.320	-6.506	1317.22	
11	-458.780	9.300	-6.546	1317.21	
10	-459.920	9.280	-6.466	1317.2	
9	-462.210	9.240	-6.496	1317.18	
8	-463.360	9.220	-6.466	1317.17	
7	-463.930	9.210	-6.566	1317.165	
6	-464.500	9.200	-6.486	1317.16	
5	-466.790	9.160	-6.336	1317.14	
4	-467.940	9.140	-6.436	1317.13	
3	-469.080	9.120	-6.386	1317.12	
2	-471.370	9.080	-6.566	1317.1	
1	-472.520	9.060	-6.476	1317.09	

SOUTH LINE 2 (MERGED ON- & OFFSHORE PROFILES)
 12 December 1989 1505 to 1520 (CST) (ONSHORE)
 13 December 1989 1303 to 1314 (CST) (OFFSHORE)
 Average offset for 24 points = -0.112108

PT. # X (m) Y (m) Z (m) TIME COMMENTS

222	23.116	29.510	3.209		
221	20.973	29.627	2.569		
220	19.604	29.682	2.458		
219	17.083	29.888	2.371		
218	14.683	29.858	2.350		
217	12.467	29.955	2.559		
216	10.502	29.621	2.307		
215	8.225	29.756	2.362		
214	5.478	29.938	2.442		
213	2.446	29.945	2.542		

200	-184.080	24.810	-2.019	1306.45	134	-328.630	21.300	-3.649	1304.8
199	-186.730	24.820	-2.119	1306.42	133	-330.440	21.230	-3.649	1304.78
198	-188.500	24.830	-1.859	1306.4	132	-333.170	21.130	-3.659	1304.75
197	-190.260	24.840	-1.869	1306.38	131	-335.900	21.030	-3.719	1304.72
196	-192.910	24.860	-1.699	1306.35	130	-338.630	20.940	-3.749	1304.69
195	-194.680	24.870	-1.699	1306.33	129	-340.450	20.870	-3.809	1304.67
194	-196.440	24.880	-1.519	1306.31	128	-342.270	20.800	-3.829	1304.65
193	-198.210	24.890	-1.349	1306.29	127	-344.080	20.740	-3.839	1304.63
192	-200.860	24.900	-1.589	1306.26	126	-346.810	20.640	-3.979	1304.6
191	-202.620	24.910	-1.419	1306.24	125	-349.440	20.520	-3.909	1304.57
190	-204.390	24.920	-1.369	1306.22	124	-350.270	20.470	-3.869	1304.56
189	-207.920	24.940	-1.439	1306.18	123	-351.530	20.400	-4.019	1304.545
188	-210.570	24.960	-1.589	1306.15	122	-351.940	20.370	-4.089	1304.54
187	-213.210	24.970	-1.589	1306.12	121	-354.440	20.220	-4.069	1304.51
186	-215.860	24.990	-1.589	1306.09	120	-355.280	20.170	-3.989	1304.5
185	-217.630	25.000	-1.749	1306.07	119	-356.950	20.070	-4.029	1304.48
184	-220.280	25.010	-1.809	1306.04	118	-357.780	20.020	-4.129	1304.47
183	-223.810	25.030	-1.929	1306	117	-358.610	19.970	-4.179	1304.46
182	-226.400	24.950	-1.929	1305.97	116	-361.120	19.820	-4.159	1304.43
181	-228.140	24.890	-2.049	1305.95	115	-362.780	19.730	-4.139	1304.41
180	-229.870	24.840	-2.079	1305.93	114	-365.290	19.580	-4.199	1304.38
179	-232.460	24.750	-2.199	1305.9	113	-367.790	19.430	-4.279	1304.35
178	-235.060	24.670	-2.199	1305.87	112	-368.620	19.380	-4.169	1304.34
177	-237.660	24.580	-2.329	1305.84	111	-370.290	19.280	-4.309	1304.32
176	-239.390	24.530	-2.409	1305.82	110	-371.120	19.230	-4.429	1304.31
175	-241.980	24.440	-2.369	1305.79	109	-372.790	19.130	-4.329	1304.29
174	-243.710	24.390	-2.479	1305.77	108	-373.630	19.080	-4.239	1304.28
173	-245.450	24.330	-2.539	1305.75	107	-375.300	18.980	-4.399	1304.26
172	-248.040	24.250	-2.629	1305.72	106	-376.960	18.880	-4.509	1304.24
171	-249.770	24.190	-2.689	1305.7	105	-379.470	18.730	-4.429	1304.21
170	-252.370	24.110	-2.669	1305.67	104	-381.130	18.630	-4.529	1304.19
169	-254.100	24.050	-2.709	1305.65	103	-382.800	18.530	-4.499	1304.17
168	-255.830	24.000	-2.789	1305.63	102	-383.640	18.480	-4.539	1304.16
167	-257.560	23.940	-2.819	1305.61	101	-385.300	18.390	-4.589	1304.14
166	-259.290	23.890	-2.799	1305.59	100	-387.810	18.240	-4.619	1304.11
165	-261.890	23.800	-2.899	1305.56	99	-390.310	18.090	-4.609	1304.08
164	-264.490	23.720	-2.979	1305.53	98	-391.140	18.040	-4.699	1304.07
163	-266.220	23.660	-2.899	1305.51	97	-392.810	17.940	-4.789	1304.05
162	-268.820	23.570	-3.089	1305.48	96	-393.640	17.890	-4.729	1304.04
161	-270.550	23.500	-3.039	1305.46	95	-396.150	17.840	-4.679	1304.03
160	-272.290	23.430	-2.989	1305.44	94	-396.150	17.740	-4.799	1304.01
159	-275.150	23.400	-3.079	1305.43	93	-396.980	17.690	-4.849	1304
158	-276.620	23.260	-3.149	1305.39	92	-397.860	17.680	-4.829	1303.99
157	-278.360	23.200	-3.079	1305.37	91	-399.610	17.660	-4.759	1303.97
156	-280.090	23.130	-3.149	1305.35	90	-400.490	17.660	-4.839	1303.96
155	-282.690	23.030	-3.239	1305.32	89	-402.240	17.640	-4.919	1303.94
154	-283.560	23.000	-3.199	1305.31	88	-403.120	17.630	-4.919	1303.93
153	-285.290	22.930	-3.199	1305.29	87	-404.870	17.610	-4.939	1303.91
152	-287.030	22.860	-3.269	1305.27	86	-406.620	17.590	-4.939	1303.89
151	-290.500	22.730	-3.279	1305.23	85	-409.260	17.570	-4.959	1303.86
150	-293.100	22.630	-3.339	1305.2	84	-410.130	17.560	-5.029	1303.85
149	-295.700	22.530	-3.279	1305.17	83	-411.010	17.550	-5.089	1303.84
148	-297.430	22.460	-3.499	1305.15	82	-412.760	17.530	-5.059	1303.82
147	-299.170	22.390	-3.419	1305.13	81	-413.640	17.520	-4.989	1303.81
146	-300.030	22.360	-3.279	1305.12	80	-415.390	17.510	-5.099	1303.79
145	-303.500	22.220	-3.489	1305.08	79	-417.150	17.490	-5.249	1303.77
144	-306.100	22.120	-3.389	1305.05	78	-419.780	17.460	-5.169	1303.74
143	-309.570	21.990	-3.529	1305.01	77	-420.650	17.450	-5.249	1303.73
142	-312.260	21.890	-3.569	1304.98	76	-422.410	17.440	-5.369	1303.71
141	-314.080	21.820	-3.569	1304.96	75	-425.040	17.410	-5.299	1303.68
140	-315.900	21.760	-3.579	1304.94	74	-425.910	17.400	-5.439	1303.67
139	-316.800	21.720	-3.489	1304.93	73	-427.670	17.380	-5.519	1303.65
138	-318.620	21.660	-3.489	1304.91	72	-431.180	17.350	-5.589	1303.61
137	-320.440	21.590	-3.639	1304.89	71	-432.930	17.330	-5.659	1303.59
136	-324.080	21.460	-3.539	1304.85	70	-433.810	17.320	-5.799	1303.58
135	-325.900	21.400	-3.639	1304.83	69	-435.560	17.310	-5.989	1303.56

PT. #	X (m)	Y (m)	Z (m)	TIME	COMMENTS
2	-523.690	20.940	-7.219	1302.53	
1	-525.400	21.010	-7.219	1302.51	
SOUTH LINE 3 (MERGED ON- & OFFSHORE PROFILES)					
12 December 1989 1311 to 1503 (CST) (ONSHORE)					
13 December 1989 1244 to 1255 (CST) (OFFSHORE)					
Average offset for 25 points = -0.366180					
186	33.929	43.513	3.112		
185	29.792	43.934	2.822		
184	26.816	43.842	2.700		
183	24.012	43.879	2.603		
182	21.531	43.849	2.521		
181	18.264	43.851	2.387		
180	14.997	43.350	2.289		
179	12.387	43.881	2.234		
178	9.638	43.929	2.252		
177	6.908	44.500	2.341		
176	4.635	44.675	2.434		
175	2.143	44.801	2.585		
174	-0.535	44.846	2.754		
173	-3.024	44.945	2.865		
172	-6.215	44.804	2.949		
171	-9.181	44.713	2.943		
170	-12.087	44.910	2.737		
169	-14.228	44.908	2.581		
168	-17.146	44.921	2.329		
167	-19.692	44.681	2.085		
166	-22.171	45.082	1.902		
165	-25.318	45.129	1.697		
164	-28.858	45.145	1.513		
163	-32.244	45.243	1.436		
162	-35.271	45.041	1.309		
161	-38.214	44.734	1.120		
160	-41.434	44.308	0.986		
159	-44.248	44.095	0.804		
158	-47.053	44.084	0.540		
157	-49.971	44.391	0.201		
156	-52.987	44.685	-0.037		
155	-55.407	44.829	-0.122		
154	-57.851	45.035	-0.235		
153	-61.289	45.853	-0.304		
152	-66.378	46.497	-0.366		
151	-69.046	46.485	-0.356		
150	-73.563	46.751	-0.317		
149	-77.222	46.658	-0.214		
148	-81.898	46.268	-0.306		
147	-86.853	45.988	-0.332		
146	-91.336	47.068	-0.436		
145	-93.995	46.482	-0.348		
144	-97.840	46.264	-0.455		
143	-102.916	46.907	-0.499		
142	-105.200	46.625	-0.526		
141	-109.256	46.108	-0.610		
140	-114.717	47.343	-0.659		
139	-122.974	47.175	-1.131		
225	-128.090	47.410	-0.523		1248.57
224	-129.130	47.290	-0.493		1248.55
223	-130.160	47.180	-0.533		1248.53
222	-130.680	47.120	-0.603		1248.52
221	-132.240	46.940	-0.683		1248.49
220	-132.760	46.890	-0.703		1248.48
219	-133.800	46.770	-0.703		1248.46
218	-136.140	46.510	-0.813		1248.415
217	-136.400	46.480	-0.913		1248.41
216	-137.700	46.330	-0.993		1248.385

68	-437.310	17.290	-6.079	1303.54	
67	-439.070	17.270	-6.179	1303.52	
66	-439.940	17.260	-6.319	1303.51	
65	-441.670	17.290	-6.229	1303.49	
64	-444.240	17.400	-6.369	1303.46	
63	-445.090	17.440	-6.519	1303.45	
62	-445.950	17.480	-6.429	1303.44	
61	-446.800	17.520	-6.329	1303.43	
60	-448.510	17.590	-6.289	1303.41	
59	-449.360	17.630	-6.429	1303.4	
58	-450.650	17.690	-6.469	1303.385	
57	-451.070	17.710	-6.599	1303.38	
56	-452.780	17.780	-6.619	1303.36	
55	-455.340	17.900	-6.329	1303.33	
54	-457.050	17.970	-6.299	1303.31	
53	-458.760	18.050	-6.449	1303.29	
52	-460.470	18.130	-6.359	1303.27	
51	-461.330	18.160	-6.529	1303.26	
50	-463.030	18.240	-6.589	1303.24	
49	-463.890	18.280	-6.689	1303.23	
48	-465.600	18.350	-6.629	1303.21	
47	-467.310	18.430	-6.469	1303.19	
46	-469.010	18.510	-6.819	1303.17	
45	-470.720	18.580	-6.729	1303.15	
44	-471.580	18.620	-6.599	1303.14	
43	-472.430	18.660	-6.749	1303.13	
42	-473.290	18.700	-6.859	1303.12	
41	-475.000	18.770	-6.889	1303.1	
40	-476.700	18.850	-6.689	1303.08	
39	-477.560	18.890	-6.749	1303.07	
38	-479.270	18.960	-6.749	1303.05	
37	-481.830	19.080	-6.749	1303.02	
36	-482.680	19.110	-6.879	1303.01	
35	-483.970	19.170	-6.779	1302.995	
34	-484.390	19.190	-6.669	1302.99	
33	-486.100	19.260	-6.749	1302.97	
32	-486.960	19.300	-6.809	1302.96	
31	-488.670	19.380	-6.879	1302.94	
27	-489.520	19.420	-6.809	1302.93	
30	-489.520	19.420	-6.929	1302.93	
29	-491.230	19.490	-7.009	1302.91	
26	-492.080	19.530	-6.749	1302.9	
25	-493.790	19.610	-6.619	1302.88	
24	-495.070	19.660	-6.779	1302.865	
23	-495.500	19.680	-6.919	1302.86	
22	-497.210	19.760	-6.999	1302.84	
21	-498.060	19.800	-6.889	1302.83	
20	-498.920	19.830	-6.809	1302.82	
19	-500.630	19.910	-6.809	1302.8	
18	-501.480	19.950	-6.969	1302.79	
17	-502.340	19.990	-6.729	1302.78	
16	-504.040	20.060	-6.819	1302.76	
15	-504.900	20.100	-6.879	1302.75	
14	-506.610	20.180	-6.879	1302.73	
13	-507.460	20.210	-6.959	1302.72	
12	-510.020	20.330	-6.959	1302.69	
11	-512.590	20.440	-6.849	1302.66	
10	-513.440	20.480	-6.959	1302.65	
9	-514.300	20.520	-7.009	1302.64	
8	-516.010	20.590	-7.009	1302.62	
7	-517.710	20.670	-6.959	1302.6	
6	-518.570	20.710	-7.009	1302.59	
5	-519.850	20.760	-6.939	1302.575	
4	-520.280	20.780	-7.079	1302.57	
3	-521.990	20.860	-7.079	1302.55	

149	-258.450	42.010	-3.073	1247.04
148	-259.500	41.990	-3.003	1247.03
147	-260.560	41.970	-2.963	1247.02
146	-262.660	41.940	-3.073	1247
145	-265.950	41.920	-3.133	1246.97
144	-268.140	41.900	-3.153	1246.95
143	-270.330	41.880	-3.203	1246.93
142	-272.520	41.870	-3.203	1246.91
141	-274.720	41.850	-3.233	1246.89
140	-276.910	41.840	-3.203	1246.87
139	-278.000	41.830	-3.313	1246.86
138	-281.290	41.800	-3.313	1246.83
137	-282.390	41.800	-3.293	1246.82
136	-285.670	41.770	-3.403	1246.79
135	-286.770	41.760	-3.443	1246.78
134	-288.960	41.750	-3.483	1246.76
133	-290.060	41.740	-3.413	1246.75
132	-292.250	41.720	-3.403	1246.73
131	-293.340	41.710	-3.483	1246.72
130	-294.440	41.710	-3.533	1246.71
129	-295.530	41.700	-3.643	1246.7
128	-296.630	41.690	-3.583	1246.69
127	-297.720	41.680	-3.493	1246.68
126	-298.820	41.670	-3.453	1246.67
125	-301.010	41.660	-3.563	1246.65
124	-302.110	41.650	-3.633	1246.64
123	-304.300	41.630	-3.693	1246.62
122	-306.490	41.620	-3.623	1246.6
121	-307.590	41.610	-3.593	1246.59
120	-309.780	41.590	-3.663	1246.57
119	-310.870	41.580	-3.743	1246.56
118	-313.060	41.570	-3.733	1246.54
117	-314.130	41.570	-3.633	1246.53
116	-316.160	41.600	-3.703	1246.51
115	-319.200	41.650	-3.823	1246.48
114	-320.220	41.660	-3.743	1246.47
113	-322.250	41.690	-3.743	1246.45
112	-324.280	41.720	-3.783	1246.43
111	-327.320	41.770	-3.853	1246.4
110	-328.330	41.790	-3.843	1246.39
109	-330.360	41.820	-3.833	1246.37
108	-332.390	41.850	-3.913	1246.35
107	-334.420	41.880	-4.003	1246.33
106	-336.450	41.910	-3.943	1246.31
105	-337.470	41.930	-3.883	1246.3
104	-338.480	41.940	-3.963	1246.29
103	-341.520	41.990	-4.063	1246.26
102	-343.550	42.020	-4.093	1246.24
101	-344.570	42.040	-4.033	1246.23
100	-346.600	42.070	-4.063	1246.21
99	-348.620	42.100	-4.103	1246.19
98	-350.650	42.130	-4.183	1246.17
97	-352.680	42.160	-4.213	1246.15
96	-354.710	42.190	-4.233	1246.13
95	-357.760	42.240	-4.253	1246.1
94	-360.800	42.280	-4.343	1246.07
93	-361.810	42.300	-4.393	1246.06
92	-363.840	42.330	-4.343	1246.04
91	-364.860	42.350	-4.413	1246.03
90	-367.900	42.390	-4.533	1246
89	-369.970	42.390	-4.423	1245.98
88	-371.000	42.390	-4.463	1245.97
87	-373.060	42.390	-4.543	1245.95
86	-375.130	42.390	-4.573	1245.93
85	-378.230	42.390	-4.583	1245.9
84	-380.290	42.390	-4.613	1245.88

215	-137.950	46.310	-1.053	1248.38
214	-138.470	46.250	-1.123	1248.37
213	-139.510	46.130	-1.203	1248.35
212	-140.030	46.070	-1.343	1248.34
211	-141.070	45.960	-1.323	1248.32
210	-141.590	45.900	-1.383	1248.31
209	-141.850	45.870	-1.473	1248.305
208	-142.110	45.840	-1.543	1248.3
207	-143.150	45.730	-1.653	1248.28
206	-143.670	45.670	-1.733	1248.27
205	-144.190	45.610	-1.833	1248.26
204	-145.230	45.490	-1.893	1248.24
203	-146.260	45.380	-1.893	1248.22
202	-147.300	45.260	-1.953	1248.2
201	-147.820	45.200	-2.053	1248.19
200	-148.860	45.090	-2.163	1248.17
199	-149.380	45.030	-2.243	1248.16
198	-150.420	44.910	-2.283	1248.14
197	-151.460	44.800	-2.343	1248.12
196	-153.020	44.620	-2.443	1248.09
195	-154.570	44.450	-2.533	1248.06
194	-155.610	44.330	-2.463	1248.04
193	-157.170	44.160	-2.523	1248.01
192	-158.740	44.070	-2.603	1247.99
191	-159.780	44.050	-2.513	1247.98
190	-162.920	43.970	-2.573	1247.95
189	-167.100	43.860	-2.603	1247.91
188	-168.140	43.840	-2.663	1247.9
187	-172.320	43.730	-2.773	1247.86
186	-173.370	43.710	-2.693	1247.85
185	-176.510	43.630	-2.643	1247.82
184	-178.600	43.570	-2.553	1247.8
183	-181.750	43.500	-2.543	1247.77
182	-183.820	43.440	-2.403	1247.75
181	-186.960	43.360	-2.373	1247.72
180	-189.050	43.310	-2.213	1247.7
179	-190.090	43.290	-2.093	1247.69
178	-192.190	43.230	-2.143	1247.67
177	-193.230	43.210	-1.983	1247.66
176	-194.280	43.180	-1.833	1247.65
175	-196.370	43.130	-1.743	1247.63
174	-199.500	43.050	-1.673	1247.6
173	-200.550	43.020	-1.563	1247.59
172	-203.680	42.940	-1.843	1247.56
171	-205.770	42.890	-1.513	1247.54
170	-208.910	42.810	-1.523	1247.51
169	-209.960	42.790	-1.703	1247.5
168	-211.010	42.770	-1.793	1247.49
167	-214.170	42.720	-1.703	1247.46
166	-218.390	42.650	-1.853	1247.42
165	-221.550	42.600	-1.923	1247.39
164	-223.660	42.570	-1.963	1247.37
163	-225.770	42.530	-2.073	1247.35
162	-226.820	42.510	-2.203	1247.34
161	-228.930	42.480	-2.233	1247.32
160	-232.090	42.430	-2.313	1247.29
159	-234.200	42.400	-2.383	1247.27
158	-238.420	42.330	-2.433	1247.23
157	-240.530	42.300	-2.563	1247.21
156	-242.630	42.260	-2.583	1247.19
155	-244.740	42.230	-2.633	1247.17
154	-246.850	42.190	-2.743	1247.15
153	-250.010	42.140	-2.833	1247.12
152	-253.180	42.090	-2.823	1247.09
151	-255.280	42.060	-2.913	1247.07
150	-256.340	42.040	-2.983	1247.06

83	-384.420	42.390	-4.693	1245.84
82	-387.520	42.380	-4.793	1245.81
81	-389.590	42.380	-4.793	1245.79
80	-391.650	42.380	-4.743	1245.77
79	-393.720	42.380	-4.873	1245.75
78	-394.750	42.380	-5.003	1245.74
77	-396.820	42.380	-4.933	1245.72
76	-397.850	42.380	-4.983	1245.71
75	-400.950	42.380	-4.983	1245.68
74	-403.010	42.370	-5.053	1245.66
73	-404.050	42.370	-5.093	1245.65
72	-406.110	42.370	-5.093	1245.63
71	-407.150	42.370	-5.143	1245.62
70	-409.210	42.370	-5.193	1245.6
69	-412.310	42.370	-5.193	1245.57
68	-413.340	42.370	-5.253	1245.56
67	-415.410	42.370	-5.303	1245.54
66	-417.470	42.370	-5.323	1245.52
65	-419.540	42.370	-5.403	1245.5
64	-420.610	42.450	-5.513	1245.49
63	-424.910	42.770	-5.513	1245.45
62	-425.990	42.850	-5.633	1245.44
61	-429.210	43.100	-5.733	1245.41
60	-431.360	43.260	-5.693	1245.39
59	-432.440	43.340	-5.763	1245.38
58	-434.590	43.500	-5.853	1245.36
57	-435.660	43.580	-5.933	1245.35
56	-436.740	43.660	-5.963	1245.34
55	-439.960	43.910	-6.033	1245.31
54	-441.040	43.990	-6.133	1245.3
53	-442.110	44.070	-6.223	1245.29
52	-443.190	44.150	-6.323	1245.28
51	-445.340	44.310	-6.433	1245.26
50	-445.880	44.350	-6.533	1245.255
49	-446.410	44.400	-6.643	1245.25
48	-447.490	44.480	-6.723	1245.24
47	-448.030	44.520	-6.813	1245.235
46	-448.560	44.560	-6.793	1245.23
45	-450.710	44.720	-6.903	1245.21
44	-451.790	44.800	-6.903	1245.2
43	-453.940	44.960	-6.903	1245.18
42	-457.160	45.210	-6.973	1245.15
41	-458.780	45.330	-7.023	1245.135
40	-459.310	45.370	-6.953	1245.13
39	-461.460	45.530	-7.023	1245.11
38	-462.540	45.610	-7.123	1245.1
37	-463.080	45.650	-7.173	1245.095
36	-463.610	45.690	-7.033	1245.09
35	-465.760	45.860	-6.993	1245.07
34	-467.910	46.020	-6.903	1245.05
33	-470.060	46.180	-7.023	1245.03
32	-471.140	46.260	-6.953	1245.02
31	-475.350	46.400	-6.973	1244.98
30	-477.420	46.380	-7.173	1244.96
29	-479.480	46.360	-7.163	1244.94
28	-480.510	46.350	-7.163	1244.93
27	-482.570	46.330	-7.083	1244.91
26	-484.640	46.310	-7.043	1244.89
25	-486.700	46.280	-7.153	1244.87
24	-487.730	46.270	-7.223	1244.86
23	-488.760	46.260	-7.193	1244.85
22	-489.800	46.250	-7.113	1244.84
21	-490.830	46.240	-7.083	1244.83
20	-491.860	46.230	-7.003	1244.82
19	-492.890	46.220	-7.163	1244.81
18	-493.920	46.210	-7.263	1244.8

17	-495.990	46.190	-7.213	1244.78
16	-496.500	46.180	-7.143	1244.775
15	-497.020	46.170	-6.893	1244.77
14	-498.050	46.160	-6.813	1244.76
13	-499.080	46.150	-6.963	1244.75
12	-500.110	46.140	-7.093	1244.74
11	-501.150	46.130	-7.143	1244.73
10	-503.210	46.110	-7.143	1244.71
9	-504.240	46.100	-7.093	1244.7
8	-507.340	46.070	-7.073	1244.67
7	-509.400	46.040	-7.073	1244.65
6	-510.430	46.030	-7.063	1244.64
5	-511.460	46.020	-7.183	1244.63
4	-512.490	46.010	-7.243	1244.62
3	-514.560	45.990	-7.343	1244.6
2	-515.070	45.980	-7.123	1244.595
1	-515.590	45.980	-7.213	1244.59

SOUTH LINE 4 (MERGED ON- & OFFSHORE PROFILES)
14 December 1989 1201 to 1214 (CST) (ONSHORE)
13 December 1989 1231 to 1241 (CST) (OFFSHORE)
Average offset for 4 points = -0.164735

PT. #	X (m)	Y (m)	Z (m)	TIME COMMENTS
266	37.591	60.963	3.115	
265	33.046	60.448	2.749	
264	29.848	60.020	2.570	
263	26.576	59.951	2.464	
262	22.956	59.816	2.371	
261	19.514	60.005	2.283	
260	15.838	60.230	2.229	
259	12.408	60.167	2.238	
258	9.166	60.033	2.244	
257	6.075	59.917	2.308	
256	2.608	59.779	2.535	
255	-0.803	59.752	2.788	
254	-3.665	59.653	2.975	
253	-7.327	59.719	3.071	
252	-11.324	59.855	2.903	
251	-14.494	59.707	2.646	
250	-17.364	59.668	2.339	
249	-20.659	59.718	2.052	
248	-25.101	59.573	1.725	
247	-28.718	59.446	1.607	
246	-32.306	59.608	1.514	
245	-36.079	59.686	1.403	
244	-39.014	59.613	1.179	
243	-42.026	59.345	1.017	
242	-44.996	58.978	0.851	
241	-47.847	59.296	0.491	
240	-51.846	60.108	0.061	
239	-56.871	60.026	-0.211	
238	-60.773	59.831	-0.297	
237	-64.514	59.593	-0.358	
236	-68.584	59.395	-0.382	
235	-69.928	60.039	-0.360	
234	-72.865	59.109	-0.300	
233	-76.567	58.467	-0.163	
261	-107.070	62.860	-0.512	1235.65
260	-108.890	62.830	-0.582	1235.63
259	-109.800	62.820	-0.652	1235.62
258	-111.620	62.790	-0.732	1235.6
257	-114.340	62.740	-0.622	1235.57
256	-117.980	62.680	-0.752	1235.53
255	-123.430	62.580	-0.862	1235.47
254	-124.340	62.570	-0.952	1235.46
253	-126.160	62.540	-1.052	1235.44

186	-227.030	62.890	-1.812	1234.25
185	-227.480	62.910	-1.922	1234.265
184	-227.920	62.930	-1.982	1234.24
183	-230.590	63.020	-2.082	1234.21
182	-232.370	63.090	-2.072	1234.19
181	-235.030	63.180	-2.152	1234.16
180	-237.700	63.280	-2.232	1234.13
179	-240.370	63.370	-2.292	1234.1
178	-242.150	63.440	-2.372	1234.08
177	-243.930	63.500	-2.462	1234.06
176	-244.810	63.530	-2.392	1234.05
175	-247.480	63.630	-2.482	1234.02
174	-251.030	63.730	-2.602	1233.98
173	-251.910	63.750	-2.642	1233.97
172	-252.790	63.770	-2.552	1233.96
171	-254.560	63.810	-2.662	1233.94
170	-256.330	63.850	-2.752	1233.92
169	-258.090	63.890	-2.812	1233.9
168	-259.860	63.930	-2.782	1233.88
167	-260.740	63.950	-2.762	1233.87
166	-261.630	63.970	-2.852	1233.86
165	-263.390	64.010	-2.962	1233.84
164	-265.160	64.050	-2.962	1233.82
163	-266.040	64.070	-2.892	1233.81
162	-267.810	64.110	-2.932	1233.79
161	-269.580	64.150	-3.032	1233.77
160	-270.460	64.170	-3.092	1233.76
159	-271.340	64.190	-3.072	1233.75
158	-272.230	64.210	-2.982	1233.74
157	-273.110	64.230	-2.922	1233.73
156	-274.440	64.260	-2.972	1233.715
155	-274.880	64.270	-3.052	1233.71
154	-276.640	64.310	-3.152	1233.69
153	-278.410	64.350	-3.152	1233.67
152	-279.290	64.380	-3.072	1233.66
151	-281.060	64.420	-3.072	1233.64
150	-282.830	64.460	-3.192	1233.62
149	-285.480	64.520	-3.262	1233.59
148	-286.360	64.540	-3.192	1233.58
146	-291.660	64.660	-3.352	1233.52
147	-291.660	64.660	-3.232	1233.52
145	-292.960	64.690	-3.412	1233.505
144	-293.390	64.700	-3.302	1233.5
143	-295.110	64.740	-3.272	1233.48
142	-298.540	64.820	-3.412	1233.44
141	-300.260	64.860	-3.332	1233.42
140	-302.840	64.920	-3.382	1233.39
139	-305.410	64.980	-3.482	1233.36
138	-307.990	65.040	-3.522	1233.33
137	-309.710	65.080	-3.522	1233.31
136	-311.430	65.120	-3.502	1233.29
135	-313.140	65.160	-3.592	1233.27
134	-314.860	65.200	-3.592	1233.25
133	-317.440	65.260	-3.592	1233.22
132	-319.160	65.300	-3.602	1233.2
131	-320.880	65.340	-3.652	1233.18
130	-324.310	65.420	-3.642	1233.14
129	-325.170	65.440	-3.692	1233.13
128	-326.890	65.480	-3.692	1233.11
127	-328.610	65.520	-3.762	1233.09
126	-331.180	65.580	-3.762	1233.06
125	-333.760	65.640	-3.792	1233.03
124	-335.480	65.680	-3.832	1233.01
123	-338.040	65.650	-3.942	1232.98
122	-338.890	65.630	-3.872	1232.97
121	-339.740	65.600	-3.822	1232.96

252	-127.980	62.510	-1.092	1235.42
251	-128.890	62.490	-1.052	1235.41
250	-130.710	62.460	-1.172	1235.39
249	-131.620	62.450	-1.252	1235.38
248	-133.430	62.410	-1.342	1235.36
247	-134.800	62.390	-1.432	1235.345
246	-135.250	62.380	-1.382	1235.34
245	-137.070	62.350	-1.292	1235.32
244	-138.890	62.320	-1.302	1235.3
243	-139.800	62.310	-1.362	1235.29
242	-141.620	62.280	-1.432	1235.27
241	-143.440	62.240	-1.532	1235.25
240	-144.340	62.230	-1.492	1235.24
239	-146.160	62.200	-1.452	1235.22
238	-147.980	62.170	-1.512	1235.2
237	-150.710	62.120	-1.612	1235.17
236	-153.330	62.090	-1.672	1235.14
235	-154.140	62.090	-1.572	1235.13
234	-156.550	62.090	-1.672	1235.1
233	-157.750	62.090	-1.762	1235.085
232	-158.160	62.090	-1.842	1235.08
231	-159.760	62.090	-1.782	1235.06
230	-161.370	62.090	-1.732	1235.04
229	-162.980	62.090	-1.822	1235.02
228	-163.790	62.090	-1.932	1235.01
227	-164.200	62.090	-2.012	1234.98
226	-167.810	62.090	-2.092	1234.96
225	-169.420	62.090	-2.162	1234.925
224	-170.620	62.090	-2.202	1234.92
223	-171.020	62.090	-2.252	1234.92
222	-172.630	62.090	-2.342	1234.9
221	-174.240	62.090	-2.422	1234.88
220	-176.650	62.090	-2.562	1234.85
219	-179.070	62.090	-2.622	1234.82
218	-180.670	62.090	-2.612	1234.8
217	-182.280	62.090	-2.542	1234.78
216	-183.890	62.090	-2.682	1234.76
215	-184.700	62.090	-2.622	1234.75
214	-185.500	62.090	-2.532	1234.74
213	-186.300	62.090	-2.432	1234.73
212	-187.910	62.090	-2.582	1234.71
211	-189.520	62.090	-2.542	1234.69
210	-190.330	62.090	-2.352	1234.68
209	-192.740	62.090	-2.232	1234.65
208	-194.350	62.090	-2.202	1234.63
207	-195.950	62.090	-2.072	1234.61
206	-196.760	62.090	-1.942	1234.6
205	-198.370	62.090	-1.852	1234.58
204	-199.170	62.090	-1.712	1234.57
203	-199.980	62.090	-1.632	1234.56
202	-202.390	62.090	-1.592	1234.53
201	-204.800	62.100	-1.502	1234.5
200	-205.690	62.130	-1.422	1234.49
199	-209.250	62.250	-1.442	1234.45
198	-211.030	62.320	-1.502	1234.43
197	-212.800	62.380	-1.422	1234.41
196	-213.690	62.410	-1.502	1234.4
195	-215.470	62.480	-1.602	1234.38
194	-216.360	62.510	-1.682	1234.37
193	-217.250	62.540	-1.632	1234.36
192	-219.030	62.610	-1.602	1234.34
191	-220.810	62.670	-1.642	1234.32
190	-222.580	62.730	-1.742	1234.3
189	-223.470	62.770	-1.792	1234.29
188	-224.360	62.800	-1.922	1234.28
187	-225.250	62.830	-1.852	1234.27

54	-434.640	64.160	-5.502	1231.89
53	-435.560	64.150	-5.562	1231.88
52	-436.470	64.150	-5.642	1231.87
51	-437.380	64.140	-5.582	1231.86
50	-438.300	64.140	-5.542	1231.85
49	-439.670	64.130	-5.612	1231.835
48	-440.130	64.130	-5.712	1231.83
47	-441.040	64.120	-5.792	1231.82
46	-442.870	64.120	-5.862	1231.81
45	-442.870	64.110	-5.762	1231.8
44	-443.780	64.110	-5.712	1231.79
43	-444.700	64.100	-5.782	1231.78
42	-446.520	64.090	-5.892	1231.76
41	-447.440	64.080	-6.012	1231.75
40	-449.270	64.070	-5.902	1231.73
39	-450.180	64.070	-6.002	1231.72
38	-452.010	64.060	-6.102	1231.7
37	-452.920	64.050	-6.162	1231.69
36	-454.750	64.040	-6.232	1231.67
35	-456.580	64.030	-6.282	1231.65
34	-457.490	64.020	-6.352	1231.64
33	-458.410	64.020	-6.452	1231.63
32	-459.320	64.010	-6.562	1231.62
31	-460.230	64.010	-6.702	1231.61
30	-462.060	64.000	-6.792	1231.59
29	-462.980	63.990	-6.832	1231.58
28	-464.800	63.980	-6.922	1231.56
27	-465.720	63.980	-6.932	1231.55
26	-467.550	63.970	-6.932	1231.53
25	-469.370	63.950	-6.892	1231.51
24	-472.120	63.940	-6.962	1231.48
23	-473.940	63.930	-7.012	1231.46
22	-476.690	63.910	-7.042	1231.43
21	-478.510	63.900	-7.042	1231.41
20	-479.430	63.890	-6.982	1231.4
19	-480.340	63.890	-6.872	1231.39
18	-481.260	63.880	-6.822	1231.38
17	-483.080	63.870	-6.752	1231.36
16	-484.450	63.860	-6.842	1231.345
15	-484.910	63.860	-6.912	1231.34
14	-485.830	63.860	-7.002	1231.33
13	-488.570	63.840	-6.912	1231.3
12	-491.310	63.820	-6.972	1231.27
11	-494.050	63.810	-6.922	1231.24
10	-494.970	63.800	-6.982	1231.23
9	-495.880	63.800	-7.032	1231.22
8	-498.620	63.780	-7.022	1231.19
7	-500.450	63.770	-6.992	1231.17
6	-502.280	63.760	-7.092	1231.15
5	-505.020	63.740	-7.062	1231.12
4	-507.760	63.730	-7.062	1231.09
3	-510.500	63.710	-7.082	1231.06
2	-513.250	63.690	-7.072	1231.03
1	-515.070	63.680	-7.102	1231.01

SOUTH LINE 5 (MERGED ON- & OFFSHORE PROFILES)
 14 December 1989 1127 to 1148 (CST) (ONSHORE)
 13 December 1989 1212 to 1229 (CST) (OFFSHORE)
 Average offset for 4 points = -0.235291
 PT. # X (m) Y (m) Z (m) TIME COMMENTS

120	-341.440	65.550	-3.842	1232.94
119	-342.290	65.530	-3.952	1232.93
118	-343.150	65.500	-4.022	1232.92
117	-344.850	65.460	-4.022	1232.9
116	-346.550	65.410	-3.862	1232.88
115	-348.250	65.360	-3.982	1232.86
114	-349.100	65.340	-4.092	1232.85
113	-349.950	65.310	-4.162	1232.84
112	-351.660	65.260	-4.042	1232.82
111	-353.360	65.220	-4.022	1232.8
110	-354.210	65.190	-4.092	1232.79
109	-356.760	65.120	-4.202	1232.76
108	-358.460	65.070	-4.122	1232.74
107	-360.170	65.020	-4.152	1232.72
106	-363.570	64.930	-4.262	1232.68
105	-364.420	64.900	-4.212	1232.67
104	-367.830	64.800	-4.312	1232.63
103	-369.530	64.760	-4.282	1232.61
102	-372.080	64.660	-4.392	1232.58
101	-372.930	64.660	-4.392	1232.57
100	-375.490	64.590	-4.392	1232.54
99	-377.190	64.540	-4.392	1232.52
98	-378.890	64.490	-4.392	1232.5
97	-379.800	64.490	-4.462	1232.49
96	-380.720	64.480	-4.532	1232.48
95	-381.170	64.480	-4.602	1232.475
94	-381.630	64.470	-4.502	1232.47
93	-382.550	64.470	-4.432	1232.46
92	-384.370	64.460	-4.422	1232.44
91	-385.290	64.450	-4.502	1232.43
90	-387.120	64.440	-4.672	1232.41
89	-388.030	64.440	-4.642	1232.4
88	-389.400	64.430	-4.612	1232.385
87	-389.860	64.430	-4.532	1232.38
86	-391.690	64.420	-4.542	1232.36
85	-392.600	64.410	-4.682	1232.35
84	-393.510	64.400	-4.732	1232.34
83	-394.430	64.400	-4.712	1232.33
82	-395.340	64.390	-4.612	1232.32
81	-396.260	64.390	-4.692	1232.31
80	-398.080	64.380	-4.732	1232.29
79	-399.000	64.370	-4.802	1232.28
78	-400.830	64.360	-4.802	1232.26
77	-401.740	64.360	-4.792	1232.25
76	-402.650	64.350	-4.732	1232.24
75	-404.480	64.340	-4.802	1232.22
74	-405.400	64.330	-4.882	1232.21
73	-406.310	64.330	-4.952	1232.2
72	-407.680	64.320	-4.932	1232.185
71	-408.140	64.320	-4.872	1232.18
70	-409.970	64.310	-4.882	1232.16
69	-410.880	64.300	-4.952	1232.15
68	-411.790	64.300	-4.972	1232.14
67	-413.620	64.290	-5.022	1232.12
66	-415.450	64.270	-5.062	1232.1
65	-416.360	64.270	-5.092	1232.09
64	-418.190	64.260	-5.102	1232.07
63	-420.930	64.240	-5.082	1232.04
62	-421.850	64.230	-5.162	1232.03
61	-422.760	64.230	-5.232	1232.02
60	-424.590	64.220	-5.202	1232
59	-426.420	64.210	-5.272	1231.98
58	-427.330	64.200	-5.342	1231.97
57	-429.160	64.190	-5.362	1231.95
56	-430.990	64.180	-5.412	1231.93
55	-433.730	64.170	-5.422	1231.9

08/09/1990	10:39	Filename: 8912TXT.TXT	08/09/1990	10:39	Filename: 8912TXT.TXT
200	-168.280	75.100	1221.11	-2.492	1221.11
199	-170.160	75.100	1221.09	-2.582	1221.09
198	-171.090	75.110	1221.08	-2.672	1221.08
197	-172.500	75.110	1221.065	-2.752	1221.065
196	-172.970	75.120	1221.06	-2.632	1221.06
195	-173.910	75.120	1221.05	-2.522	1221.05
194	-175.780	75.130	1221.03	-2.492	1221.03
193	-176.720	75.130	1221.02	-2.552	1221.02
192	-179.570	75.140	1220.99	-2.672	1220.99
191	-181.020	75.130	1220.975	-2.702	1220.975
190	-181.500	75.130	1220.97	-2.532	1220.97
189	-182.470	75.120	1220.96	-2.442	1220.96
188	-183.920	75.120	1220.945	-2.352	1220.945
187	-184.400	75.120	1220.94	-2.422	1220.94
186	-185.370	75.110	1220.93	-2.482	1220.93
185	-187.310	75.100	1220.91	-2.562	1220.91
184	-188.280	75.100	1220.9	-2.492	1220.9
183	-188.760	75.100	1220.895	-2.422	1220.895
182	-189.240	75.090	1220.89	-2.332	1220.89
181	-190.210	75.090	1220.88	-2.272	1220.88
180	-192.150	75.080	1220.86	-2.222	1220.86
179	-193.600	75.080	1220.845	-2.182	1220.845
178	-194.080	75.070	1220.84	-2.072	1220.84
177	-195.050	75.070	1220.83	-1.942	1220.83
176	-196.980	75.060	1220.81	-1.972	1220.81
175	-198.920	75.050	1220.79	-2.012	1220.79
174	-199.310	75.050	1220.786	-1.922	1220.786
173	-199.600	75.050	1220.783	-1.792	1220.783
172	-199.890	75.050	1220.78	-1.712	1220.78
171	-200.850	75.040	1220.77	-1.602	1220.77
170	-203.760	75.030	1220.74	-1.542	1220.74
169	-204.720	75.030	1220.73	-1.592	1220.73
168	-207.630	75.020	1220.7	-1.612	1220.7
167	-209.560	75.010	1220.68	-1.532	1220.68
166	-212.470	75.000	1220.65	-1.482	1220.65
165	-214.400	74.990	1220.63	-1.592	1220.63
164	-216.340	74.980	1220.61	-1.652	1220.61
163	-219.240	74.970	1220.58	-1.712	1220.58
162	-221.170	74.960	1220.56	-1.712	1220.56
161	-223.110	74.950	1220.54	-1.742	1220.54
160	-225.040	74.940	1220.52	-1.802	1220.52
159	-225.530	74.940	1220.515	-1.902	1220.515
158	-226.010	74.920	1220.51	-2.012	1220.51
157	-227.950	74.920	1220.49	-2.092	1220.49
156	-228.920	74.910	1220.48	-1.872	1220.48
155	-229.880	74.900	1220.47	-1.972	1220.47
154	-231.820	74.880	1220.45	-2.062	1220.45
153	-233.760	74.860	1220.43	-2.172	1220.43
152	-235.690	74.840	1220.41	-2.232	1220.41
151	-238.600	74.800	1220.38	-2.262	1220.38
150	-240.530	74.780	1220.36	-2.302	1220.36
149	-242.470	74.760	1220.34	-2.382	1220.34
148	-244.400	74.740	1220.32	-2.392	1220.32
147	-245.370	74.730	1220.31	-2.452	1220.31
146	-248.280	74.690	1220.28	-2.502	1220.28
145	-250.210	74.670	1220.26	-2.612	1220.26
144	-252.150	74.650	1220.24	-2.672	1220.24
143	-256.990	74.600	1220.19	-2.672	1220.19
142	-258.920	74.570	1220.17	-2.792	1220.17
141	-259.890	74.560	1220.16	-2.872	1220.16
140	-262.800	74.530	1220.13	-2.782	1220.13
139	-263.760	74.520	1220.12	-2.872	1220.12
138	-265.700	74.500	1220.1	-2.952	1220.1
137	-268.600	74.470	1220.07	-2.982	1220.07
136	-270.540	74.440	1220.05	-2.982	1220.05
135	-272.480	74.420	1220.03	-3.062	1220.03

08/09/1990	10:39	Filename: 8912TXT.TXT	08/09/1990	10:39	Filename: 8912TXT.TXT
205	19.503	74.823	2.144	1221.7	
204	16.562	74.964	2.108	1221.69	
203	13.249	74.822	2.087	1221.67	
202	9.591	74.905	2.096	1221.65	
201	6.092	74.741	2.210	1221.64	
200	2.705	74.771	2.416	1221.625	
199	-0.809	74.700	2.724	1221.62	
198	-2.450	74.537	2.847	1221.61	
197	-5.862	74.621	3.016	1221.6	
196	-10.024	74.781	3.015	1221.59	
195	-13.177	74.632	2.810	1221.58	
194	-16.137	74.575	2.535	1221.56	
193	-19.360	74.545	2.206	1221.55	
192	-22.729	74.555	1.882	1221.53	
191	-26.117	74.861	1.687	1221.5	
190	-29.636	74.566	1.523	1221.49	
189	-33.160	72.904	1.429	1221.475	
188	-36.969	73.207	1.268	1221.47	
187	-40.395	73.541	1.060	1221.45	
186	-44.026	73.690	0.919	1221.44	
185	-48.152	73.830	0.695	1221.4	
184	-51.704	74.181	0.157	1221.38	
183	-56.633	74.251	-0.160	1221.35	
182	-60.569	74.357	-0.256	1221.33	
181	-64.515	73.903	-0.323	1221.31	
180	-68.137	73.531	-0.360	1221.28	
179	-73.352	72.960	-0.338	1221.27	
178	-76.353	73.206	-0.309	1221.24	
177	-80.058	72.960	-0.299	1221.22	
176	-84.188	73.000	-0.362	1221.21	
175	-88.310	75.470	-0.522	1221.19	
174	-92.440	75.440	-0.672	1221.175	
173	-96.570	75.390	-0.762	1221.17	
172	-100.700	75.360	-0.872	1221.16	
171	-104.830	75.310	-0.942	1221.14	
170	-108.960	75.270	-0.992	1221.12	
169	-113.090	75.260	-1.052		
168	-117.220	75.230	-1.132		
167	-121.350	75.200	-1.162		
166	-125.480	75.180	-1.242		
165	-129.610	75.150	-1.352		
164	-133.740	75.100	-1.442		
163	-137.870	75.070	-1.512		
162	-142.000	75.020	-1.562		
161	-146.130	74.940	-1.522		
160	-150.260	74.900	-1.622		
159	-154.390	74.950	-1.692		
158	-158.520	74.950	-1.752		
157	-162.650	74.960	-1.672		
156	-166.780	74.980	-1.712		
155	-170.910	74.980	-1.772		
154	-175.040	75.000	-1.862		
153	-179.170	75.010	-1.962		
152	-183.300	75.020	-1.892		
151	-187.430	75.030	-2.002		
150	-191.560	75.030	-2.082		
149	-195.690	75.040	-2.192		
148	-199.820	75.050	-2.182		
147	-203.950	75.060	-2.262		
146	-208.080	75.060	-2.302		
145	-212.210	75.070	-2.402		
144	-216.340	75.070	-2.522		
143	-220.470	75.080	-2.412		
142	-224.600	75.090			
141	-228.730				
140	-232.860				
139	-236.990				
138	-241.120				
137	-245.250				
136	-249.380				
135	-253.510				
134	-257.640				
133	-261.770				
132	-265.900				
131	-270.030				
130	-274.160				
129	-278.290				
128	-282.420				
127	-286.550				
126	-290.680				
125	-294.810				
124	-298.940				
123	-303.070				
122	-307.200				
121	-311.330				
120	-315.460				
119	-319.590				
118	-323.720				
117	-327.850				
116	-331.980				
115	-336.110				
114	-340.240				
113	-344.370				
112	-348.500				
111	-352.630				
110	-356.760				
109	-360.890				
108	-365.020				
107	-369.150				
106	-373.280				
105	-377.410				
104	-381.540				
103	-385.670				
102	-389.800				
101	-393.930				

134	-274.410	74.400	-3.102	1220.01
133	-277.290	74.440	-3.172	1219.98
132	-279.200	74.480	-3.142	1219.96
131	-281.110	74.530	-3.142	1219.94
130	-283.020	74.580	-3.242	1219.92
129	-284.930	74.630	-3.272	1219.9
128	-288.750	74.720	-3.392	1219.86
127	-289.700	74.750	-3.302	1219.85
126	-292.560	74.820	-3.312	1219.82
125	-293.520	74.840	-3.382	1219.81
124	-295.430	74.890	-3.392	1219.79
123	-298.290	74.960	-3.432	1219.76
122	-299.250	74.980	-3.432	1219.75
121	-300.200	75.010	-3.372	1219.74
120	-302.110	75.050	-3.382	1219.72
119	-303.060	75.080	-3.432	1219.71
118	-304.500	75.110	-3.522	1219.695
117	-304.970	75.130	-3.572	1219.69
116	-306.880	75.170	-3.542	1219.67
115	-307.840	75.200	-3.492	1219.66
114	-309.750	75.240	-3.562	1219.64
113	-310.700	75.270	-3.642	1219.63
112	-312.610	75.320	-3.632	1219.61
111	-314.520	75.360	-3.602	1219.59
110	-316.430	75.410	-3.602	1219.57
109	-317.380	75.430	-3.662	1219.56
108	-319.290	75.480	-3.672	1219.54
107	-321.200	75.530	-3.672	1219.52
106	-322.160	75.550	-3.702	1219.51
105	-324.050	75.610	-3.712	1219.49
104	-324.990	75.640	-3.752	1219.48
103	-326.880	75.700	-3.712	1219.46
102	-329.700	75.800	-3.752	1219.43
101	-330.640	75.830	-3.862	1219.42
100	-333.470	75.920	-3.842	1219.39
99	-335.350	75.990	-3.812	1219.37
98	-337.230	76.050	-3.862	1219.35
97	-339.120	76.110	-3.862	1219.33
96	-340.060	76.140	-3.902	1219.32
95	-341.000	76.170	-3.992	1219.31
94	-342.880	76.240	-4.012	1219.29
93	-343.830	76.270	-3.902	1219.28
92	-345.710	76.330	-3.922	1219.26
91	-347.590	76.390	-4.062	1219.24
90	-348.530	76.430	-4.112	1219.23
89	-350.420	76.490	-4.102	1219.21
88	-351.360	76.520	-4.042	1219.2
87	-353.240	76.580	-4.082	1219.18
86	-355.120	76.650	-4.142	1219.16
85	-356.070	76.680	-4.192	1219.15
84	-357.950	76.740	-4.182	1219.13
83	-360.770	76.840	-4.242	1219.1
82	-361.720	76.870	-4.292	1219.09
81	-364.540	76.960	-4.242	1219.06
80	-366.420	77.020	-4.332	1219.04
79	-367.370	77.060	-4.402	1219.03
78	-370.190	77.150	-4.322	1219
77	-371.050	77.170	-4.362	1218.99
76	-372.770	77.220	-4.432	1218.97
75	-374.490	77.260	-4.432	1218.95
74	-376.200	77.300	-4.482	1218.93
73	-377.920	77.350	-4.472	1218.91
72	-379.640	77.390	-4.532	1218.89
71	-381.360	77.440	-4.572	1218.87
70	-383.080	77.480	-4.512	1218.85
69	-384.790	77.530	-4.582	1218.83

68	-385.650	77.550	-4.642	1218.82
67	-387.370	77.590	-4.652	1218.8
66	-389.090	77.640	-4.692	1218.78
65	-393.390	77.750	-4.762	1218.73
64	-395.100	77.790	-4.832	1218.71
63	-396.820	77.840	-4.872	1218.69
62	-397.680	77.860	-4.812	1218.68
61	-398.540	77.880	-4.792	1218.67
60	-400.260	77.920	-4.832	1218.65
59	-401.120	77.950	-4.942	1218.64
58	-401.980	77.970	-5.012	1218.63
57	-403.690	78.010	-4.912	1218.61
56	-405.410	78.060	-4.902	1218.59
55	-406.270	78.080	-4.982	1218.58
54	-407.130	78.100	-5.062	1218.57
53	-408.850	78.150	-5.132	1218.55
52	-409.710	78.170	-5.022	1218.54
51	-410.570	78.190	-5.062	1218.53
50	-412.280	78.230	-5.092	1218.51
49	-413.140	78.260	-5.132	1218.5
48	-415.910	78.280	-5.212	1218.47
47	-420.510	78.320	-5.282	1218.42
46	-422.350	78.340	-5.372	1218.4
45	-424.190	78.360	-5.442	1218.38
44	-425.110	78.370	-5.362	1218.37
43	-426.950	78.380	-5.402	1218.35
42	-427.870	78.390	-5.462	1218.34
41	-429.710	78.410	-5.502	1218.32
40	-430.630	78.420	-5.582	1218.31
39	-432.480	78.430	-5.612	1218.29
38	-434.320	78.450	-5.632	1218.27
37	-435.240	78.460	-5.682	1218.26
36	-438.920	78.490	-5.732	1218.22
35	-439.840	78.500	-5.772	1218.21
34	-440.760	78.510	-5.842	1218.2
33	-443.520	78.530	-5.812	1218.17
32	-443.980	78.540	-5.912	1218.165
31	-444.440	78.540	-5.982	1218.16
30	-446.280	78.560	-6.072	1218.14
29	-447.200	78.570	-6.072	1218.13
28	-449.050	78.580	-6.112	1218.11
27	-450.890	78.600	-6.242	1218.09
26	-451.810	78.610	-6.332	1218.08
25	-453.650	78.630	-6.402	1218.06
24	-454.570	78.640	-6.482	1218.05
23	-455.490	78.640	-6.562	1218.04
22	-456.410	78.650	-6.652	1218.03
21	-458.250	78.670	-6.762	1218.01
20	-459.170	78.680	-6.882	1218
19	-460.090	78.690	-6.842	1217.99
18	-461.010	78.690	-6.892	1217.98
17	-461.930	78.700	-7.002	1217.97
16	-463.770	78.720	-7.092	1217.95
15	-464.690	78.730	-6.852	1217.94
14	-465.610	78.740	-6.762	1217.93
13	-467.460	78.750	-6.762	1217.91
12	-468.380	78.760	-6.962	1217.9
11	-470.220	78.780	-7.132	1217.88
10	-471.140	78.790	-6.992	1217.87
9	-472.980	78.800	-6.912	1217.85
8	-473.900	78.810	-7.062	1217.84
7	-474.820	78.820	-7.132	1217.83
6	-475.740	78.830	-7.132	1217.82
5	-476.660	78.840	-6.962	1217.81
4	-478.500	78.850	-7.062	1217.79
3	-479.420	78.860	-7.132	1217.78

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2	-480.340	78.870	-7.132	1217.77	
1	-482.180	78.890	-7.142	1217.75	
SOUTH LINE 6 (MERGED ON- & OFFSHORE PROFILES)					
14 December 1989 0849 to 0910 (CST) (ONSHORE)					
13 December 1989 1156 to 1211 (CST) (OFFSHORE)					
Average offset for 4 points = -0.115632					
PT. #	X (m)	Y (m)	Z (m)	TIME	COMMENTS
28	34.438	91.882	2.621		
27	27.444	91.213	2.185		
26	17.081	91.103	2.054		
25	7.019	90.788	2.115		
24	-1.114	90.845	2.610		
23	-4.464	90.893	3.021		
22	-8.441	90.818	3.146		
21	-10.503	90.652	3.119		
20	-16.045	90.570	2.625		
19	-21.305	90.773	2.073		
18	-25.397	90.739	1.756		
17	-30.641	90.708	1.621		
16	-37.814	90.588	1.456		
15	-43.163	90.696	1.062		
14	-49.113	90.811	0.893		
12	-51.059	91.357	0.532		
10	-54.820	91.319	0.109		
8	-64.320	90.971	-0.325		
6	-69.684	91.138	-0.385		
4	-73.668	90.802	-0.355		
2	-79.269	90.060	-0.289		
38	-106.677	90.224	-0.450		120600 STADIA - 1203
287	-112.440	92.630	-0.373		1200.65
286	-112.790	92.490	-0.323		1200.64
285	-113.500	92.210	-0.323		1200.62
284	-113.860	92.070	-0.323		1200.61
283	-114.390	91.860	-0.333		1200.595
282	-114.570	91.790	-0.383		1200.59
281	-114.920	91.650	-0.513		1200.58
280	-115.280	91.510	-0.593		1200.57
279	-115.990	91.220	-0.593		1200.55
278	-116.700	90.940	-0.703		1200.53
277	-117.060	90.800	-0.823		1200.52
276	-117.410	90.660	-0.873		1200.51
275	-118.920	90.590	-0.973		1200.49
274	-120.080	90.670	-1.013		1200.48
273	-121.240	90.750	-1.073		1200.47
272	-122.400	90.830	-1.183		1200.46
271	-124.720	90.980	-1.183		1200.44
270	-125.880	91.060	-1.223		1200.43
269	-127.040	91.130	-1.273		1200.42
268	-129.350	91.290	-1.343		1200.4
267	-130.510	91.370	-1.453		1200.39
266	-131.670	91.440	-1.543		1200.38
265	-133.990	91.600	-1.603		1200.36
264	-135.150	91.670	-1.513		1200.35
263	-135.730	91.710	-1.433		1200.345
262	-136.300	91.750	-1.483		1200.34
261	-138.620	91.910	-1.563		1200.32
260	-139.780	91.980	-1.633		1200.31
259	-142.100	92.140	-1.703		1200.29
258	-143.260	92.210	-1.723		1200.28
257	-145.570	92.370	-1.703		1200.26
256	-146.730	92.450	-1.663		1200.25
255	-147.890	92.520	-1.703		1200.24
254	-149.050	92.600	-1.763		1200.23
253	-151.370	92.750	-1.833		1200.21
252	-153.690	92.910	-1.883		1200.19

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119	-408.820	90.470	-4.923
118	-409.780	90.460	-4.873
117	-410.750	90.450	-4.813
116	-411.720	90.440	-4.883
115	-412.690	90.430	-4.993
114	-413.650	90.420	-5.073
113	-414.620	90.420	-4.993
112	-416.560	90.400	-4.953
111	-417.530	90.390	-4.983
110	-419.460	90.370	-5.093
109	-420.430	90.360	-5.143
108	-422.360	90.340	-5.043
107	-424.300	90.330	-5.083
106	-426.240	90.310	-5.243
105	-427.200	90.300	-5.213
104	-429.140	90.280	-5.213
103	-431.070	90.260	-5.243
102	-433.010	90.240	-5.393
101	-434.940	90.230	-5.433
100	-435.910	90.220	-5.343
99	-437.850	90.200	-5.433
98	-440.750	90.170	-5.543
97	-441.720	90.160	-5.583
96	-444.620	90.140	-5.523
95	-445.590	90.130	-5.603
94	-447.530	90.110	-5.703
93	-450.430	90.080	-5.773
92	-451.400	90.070	-5.773
91	-454.300	90.050	-5.783
90	-455.270	90.040	-5.933
89	-456.240	90.030	-6.033
88	-457.190	90.060	-6.033
87	-459.090	90.120	-6.033
86	-460.990	90.180	-6.123
85	-462.890	90.240	-6.273
84	-463.840	90.270	-6.363
83	-464.800	90.300	-6.473
82	-465.750	90.330	-6.643
81	-466.700	90.360	-6.753
80	-467.650	90.390	-6.843
79	-468.600	90.420	-6.773
78	-471.450	90.510	-6.843
77	-473.360	90.570	-6.853
76	-476.210	90.660	-6.933
75	-477.160	90.690	-6.923
74	-479.060	90.760	-6.883
73	-480.490	90.800	-6.973
72	-480.970	90.820	-7.033
71	-483.820	90.910	-7.013
70	-485.720	90.970	-7.143
69	-486.670	91.000	-7.193
68	-487.150	91.010	-7.113
67	-487.340	91.020	-6.933
66	-487.630	91.030	-6.813
65	-488.580	91.060	-6.643
64	-489.530	91.090	-6.973
63	-491.430	91.150	-7.003
62	-492.380	91.180	-7.123
61	-493.330	91.210	-7.183
60	-495.240	91.270	-7.143
59	-496.190	91.300	-7.053
58	-497.140	91.330	-6.943
57	-498.090	91.360	-7.073
56	-499.040	91.390	-7.313
55	-499.990	91.420	-7.343
54	-500.470	91.440	-7.153

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185	-291.410	89.170	-3.183
184	-293.340	89.130	-3.333
183	-297.210	89.050	-3.383
182	-299.150	89.010	-3.273
181	-300.120	88.980	-3.373
180	-303.020	88.920	-3.463
179	-305.920	88.860	-3.463
178	-309.790	88.770	-3.443
177	-311.730	88.730	-3.543
176	-314.610	88.950	-3.533
175	-316.540	89.100	-3.563
174	-318.470	89.240	-3.613
173	-321.350	89.460	-3.643
172	-326.170	89.830	-3.723
171	-329.060	90.050	-3.733
170	-330.980	90.190	-3.733
169	-332.910	90.340	-3.823
168	-335.800	90.560	-3.883
167	-337.720	90.700	-3.803
166	-339.650	90.850	-3.943
165	-341.580	91.000	-3.993
164	-342.540	91.070	-3.843
163	-344.470	91.220	-3.903
162	-345.430	91.290	-4.053
161	-346.390	91.360	-4.133
160	-348.320	91.510	-4.033
159	-349.280	91.580	-3.913
158	-351.210	91.730	-3.913
157	-353.130	91.870	-4.173
156	-354.100	91.950	-4.273
155	-356.020	92.090	-4.273
154	-356.980	92.170	-4.093
153	-357.950	92.240	-4.033
152	-358.910	92.310	-4.163
151	-360.830	92.350	-4.223
150	-366.590	92.120	-4.243
149	-368.510	92.040	-4.273
148	-369.470	92.000	-4.363
147	-373.310	91.850	-4.333
146	-376.180	91.740	-4.323
145	-377.140	91.700	-4.443
144	-380.020	91.590	-4.583
143	-380.980	91.550	-4.473
142	-381.940	91.510	-4.403
141	-382.900	91.470	-4.503
140	-384.820	91.390	-4.633
139	-385.780	91.360	-4.583
138	-386.740	91.320	-4.503
137	-388.660	91.240	-4.633
136	-390.580	91.170	-4.723
135	-392.500	91.090	-4.633
134	-393.460	91.050	-4.553
133	-394.420	91.010	-4.623
132	-395.850	90.960	-4.773
131	-396.330	90.940	-4.843
130	-397.290	90.900	-4.783
129	-398.250	90.860	-4.723
128	-399.210	90.820	-4.633
127	-399.690	90.800	-4.703
126	-400.170	90.780	-4.803
125	-402.090	90.710	-4.853
124	-403.050	90.670	-4.893
123	-404.010	90.630	-4.843
122	-404.970	90.590	-4.783
121	-406.890	90.520	-4.873
120	-407.850	90.480	-4.953

53	-500.940	91.450	-6.923	1156.53
52	-501.890	91.480	-6.713	1156.52
51	-502.840	91.510	-6.963	1156.51
50	-503.800	91.540	-7.073	1156.5
49	-504.080	91.500	-7.193	1156.49
48	-504.370	91.450	-7.303	1156.48
47	-504.660	91.410	-7.123	1156.47
46	-504.800	91.390	-7.003	1156.465
45	-504.940	91.360	-6.883	1156.46
44	-505.230	91.320	-6.753	1156.45
43	-505.370	91.300	-6.823	1156.445
42	-505.520	91.280	-6.933	1156.44
41	-505.800	91.230	-7.073	1156.43
40	-506.090	91.190	-7.183	1156.42
39	-506.370	91.140	-7.123	1156.41
38	-506.520	91.120	-7.053	1156.405
37	-506.660	91.100	-6.923	1156.4
36	-507.230	91.010	-6.893	1156.38
35	-507.810	90.920	-6.903	1156.36
34	-508.380	90.830	-6.893	1156.34
33	-508.670	90.790	-6.923	1156.33
32	-509.100	90.720	-6.903	1156.315
31	-509.240	90.700	-6.823	1156.31
30	-509.530	90.650	-6.703	1156.3
29	-509.810	90.610	-6.853	1156.29
28	-510.390	90.520	-6.783	1156.27
27	-510.670	90.480	-6.923	1156.26
26	-510.960	90.430	-6.973	1156.25
25	-511.250	90.390	-7.043	1156.24
24	-511.530	90.340	-7.123	1156.23
23	-511.820	90.300	-7.053	1156.22
22	-512.110	90.260	-7.003	1156.21
21	-512.390	90.210	-6.943	1156.2
20	-512.540	90.190	-6.873	1156.195
19	-512.680	90.170	-6.823	1156.19
18	-512.820	90.140	-6.903	1156.185
17	-512.970	90.120	-6.783	1156.18
16	-513.250	90.080	-6.573	1156.17
15	-513.400	90.060	-6.613	1156.165
14	-513.540	90.030	-6.813	1156.16
13	-513.830	89.990	-6.943	1156.15
12	-514.110	89.950	-6.903	1156.14
11	-514.400	89.900	-7.013	1156.13
10	-514.680	89.860	-7.113	1156.12
9	-515.260	89.770	-7.133	1156.1
8	-515.540	89.720	-7.163	1156.09
7	-515.830	89.680	-7.053	1156.08
6	-516.120	89.630	-6.983	1156.07
5	-516.400	89.590	-7.073	1156.06
4	-516.690	89.550	-7.013	1156.05
3	-516.980	89.500	-6.963	1156.04
2	-517.260	89.460	-7.013	1156.03
1	-517.840	89.370	-7.043	1156.01

PROFILE DATA: GILLSON BEACH PARK, WILMETTE, ILLINOIS

Latitude/Longitude (UTM): 42°04'52"N/87°41'13"W
(465885N/044322E)

Date: February 10, 1990 (Offshore lines)

February 11, 1990 (Onshore lines)

Time: February 10: 1300 - 1745 CST

February 11: 0900 - 1430 CST

Location: See attached sketch in December, 1989 data - The survey was run at the central portion of Gillson Beach. The Main Line (ML) extends from a black mark on the curb on the northeast side of the concession stand (back marker) through the center light of five lightposts (front marker) at a 030° (0° declination) bearing. A line on this bearing perpendicularly bisects the shoreline. "USGS" is printed on the bottom of the light post.

Horizontal Control: Twelve profile lines were surveyed parallel to the center line. Lines North Line 1 to 6 (NL1, NL2, ...) were spaced 15 meters apart with NL1 being most proximal to the Main Line. The South Lines were identically set up.

Vertical Control: Elevations (z) reflect the elevation above Low Water Datum, 1955 (175.81m). The front reference marker was tied into this datum by surveying the bench marks M-26 and M-27 on the harbor entrance jettys just south of Gillson Beach next to the Coast Guard Building. It should be noted that these bench marks are correlated to City of Chicago Datum, which is 0.453 m below Low Water Datum. The front marker is the reference point of this survey grid and was surveyed to be 2.838 meters. Lake level was measured on February 10 to be -0.339 meters at 1725 CST.

Notes: Due to an equipment malfunction the data from the Geodat could not be downloaded into the PC after data collection on February 10. This caused the Geodat memory banks to be filled before the end of surveying on February 11. Thus, the data from the last two lines run on February 11 (NL1, NL2) were entered into the PC by hand without the aid of the Geodat.

On February 11, the azimuth angle was incorrectly set. This caused all original horizontal angles to be too large. This mistake was corrected by using a UNIX AWK program to subtract the incorrect azimuth angle before any subsequent programs were run.

Several onshore profile lines did not overlap with their respective offshore line. Thus, PFMERGE.C was not able to merge these lines. Merging was accomplished by creating several extra data points by reading bathymetry data of the fathometer record using a Gerber Scale, and extrapolating x, y, and time values of the previous offshore data points. These extra points may be recognized in the data set by a point number (PN#) 00. Lines in which data points were added are SL4, NL1, NL3, NL5, and NL6.

The code SLM90-# (Southern Lake Michigan, 1990-sample number) in the "Comments" column are sample numbers which may be referred to elsewhere in this report.

GILLSON STATE BEACH, WILMETTE, ILLINOIS
 Reference Point Elevation = 2.838 m
 Surveying Crew: Michael McCormick, Peter Barnes, Ed Kempema
 Erk Reimnitz & Eran Hayden

GILLSON: NL6 (MERGED ON- & OFFSHORE PROFILES)
 11 February 1990 1152 to 1212 (CST) (ONSHORE)
 10 February 1990 1455 to 1513 (CST) (OFFSHORE)
 Average offset for 2 points = 0.005861

PT. # X (m) Y (m) Z (m) TIME COMMENTS

270	29.860	-90.834	2.483	
271	26.101	-90.587	2.483	
272	22.185	-90.671	2.566	
273	18.300	-90.432	2.731	
274	14.677	-90.560	3.074	
275	11.467	-90.317	3.182	
276	6.548	-90.154	3.025	
277	2.069	-90.516	2.966	
278	1.058	-90.516	2.911	
279	-2.939	-90.276	2.837	
280	-6.524	-90.532	2.744	
281	-9.303	-90.335	2.535	
282	-12.971	-90.338	2.280	
283	-16.889	-90.584	2.075	
284	-20.143	-90.714	1.921	
285	-24.258	-90.677	1.758	
286	-27.309	-90.747	1.591	
287	-29.081	-91.185	1.513	
288	-32.951	-90.975	1.423	
289	-34.309	-90.975	1.230	
290	-36.927	-90.822	0.897	
291	-40.629	-90.451	0.608	
292	-42.929	-90.599	0.349	
293	-44.960	-91.093	0.133	
294	-48.541	-91.300	0.148	
295	-52.326	-91.150	0.082	
296	-54.939	-91.074	-0.026	
297	-59.847	-90.556	-0.121	
298	-62.237	-91.216	-0.172	
299	-65.756	-91.226	-0.096	
300	-68.986	-91.402	-0.209	
301	-69.256	-91.265	-0.259	
302	-72.900	-85.000	-0.481	1504.91
303	-75.700	-85.150	-0.611	1504.94
304	-79.600	-85.200	-0.521	1504.98
305	-82.380	-85.440	-0.591	1505.01
306	-83.320	-85.510	-0.521	1505.02
307	-84.270	-85.580	-0.441	1505.03
308	-86.170	-85.730	-0.441	1505.05
309	-88.060	-85.870	-0.521	1505.07
310	-90.910	-86.080	-0.591	1505.10
311	-94.700	-86.370	-0.671	1505.14
312	-97.550	-86.580	-0.591	1505.17
313	-99.440	-86.720	-0.521	1505.19
314	-101.340	-86.870	-0.441	1505.21
315	-103.240	-87.010	-0.521	1505.23
316	-106.080	-87.220	-0.591	1505.26
317	-108.920	-87.440	-0.741	1505.29
318	-111.770	-87.650	-0.891	1505.32
319	-114.610	-87.860	-0.971	1505.35
320	-117.460	-88.080	-1.121	1505.38
321	-120.300	-88.290	-1.191	1505.41
322	-123.150	-88.510	-1.191	1505.44
323	-125.990	-88.720	-1.341	1505.47
324	-127.890	-88.860	-1.341	1505.49
325	-130.730	-89.080	-1.421	1505.52

snow fence

SLM90-15

SLM90-16

SLM90-17

SLM90-18

SLM90-199

22	-133.580	-89.290	-1.491	1505.55
23	-136.420	-89.500	-1.491	1505.58
24	-139.270	-89.720	-1.571	1505.61
25	-144.010	-90.070	-1.641	1505.66
26	-155.380	-90.930	-1.941	1505.78
27	-159.180	-91.210	-1.941	1505.82
28	-161.070	-91.360	-1.941	1505.84
29	-164.870	-91.640	-1.941	1505.88
30	-167.710	-91.850	-1.941	1505.91
31	-170.550	-92.070	-1.941	1505.94
32	-171.500	-92.140	-1.871	1505.95
33	-174.350	-92.350	-1.871	1505.98
34	-175.300	-92.420	-1.871	1505.99
35	-177.850	-92.560	-1.791	1506.02
36	-179.460	-92.620	-1.721	1506.04
37	-181.070	-92.680	-1.721	1506.06
38	-182.680	-92.740	-1.571	1506.08
39	-184.290	-92.800	-1.571	1506.10
40	-186.700	-92.890	-1.421	1506.13
41	-187.500	-92.920	-1.421	1506.14
42	-197.960	-93.310	-1.341	1506.27
43	-198.760	-93.340	-1.341	1506.28
44	-201.180	-93.430	-1.271	1506.31
45	-202.780	-93.490	-1.271	1506.33
46	-206.000	-93.610	-1.271	1506.37
47	-208.410	-93.700	-1.271	1506.40
48	-209.220	-93.730	-1.341	1506.41
49	-211.630	-93.820	-1.421	1506.44
50	-213.240	-94.130	-1.491	1506.46
51	-216.460	-94.000	-1.571	1506.50
52	-218.070	-94.060	-1.641	1506.52
53	-220.480	-94.150	-1.721	1506.55
54	-223.690	-94.130	-1.791	1506.59
55	-229.320	-93.940	-1.941	1506.66
56	-233.340	-93.800	-2.091	1506.71
57	-237.360	-93.660	-2.241	1506.76
58	-241.370	-93.520	-2.321	1506.81
59	-243.790	-93.430	-2.321	1506.84
60	-248.610	-93.270	-2.471	1506.90
61	-253.430	-93.100	-2.541	1506.96
62	-258.250	-92.930	-2.621	1507.02
63	-263.350	-92.770	-2.771	1507.08
64	-271.410	-92.530	-2.921	1507.17
65	-277.670	-92.350	-3.071	1507.24
66	-285.730	-92.110	-3.141	1507.33
67	-292.000	-91.930	-3.291	1507.40
68	-299.160	-91.720	-3.371	1507.48
69	-308.360	-92.620	-3.441	1507.59
70	-314.930	-93.460	-3.521	1507.67
71	-321.510	-94.310	-3.591	1507.75
72	-330.560	-95.470	-3.741	1507.86
73	-342.070	-96.950	-3.821	1508.00
74	-352.030	-95.240	-3.971	1508.12
75	-358.660	-94.100	-4.121	1508.20
76	-366.960	-92.680	-4.191	1508.30
77	-376.080	-91.110	-4.271	1508.41
78	-389.270	-89.910	-4.421	1508.57
79	-441.980	-90.520	-4.791	1509.21
80	-451.200	-90.570	-4.871	1509.32
81	-459.570	-90.610	-5.021	1509.42
82	-469.540	-90.690	-5.091	1509.54
83	-480.140	-90.840	-5.171	1509.67
84	-488.290	-90.960	-5.171	1509.77
85	-498.070	-91.090	-5.241	1509.89
86	-505.410	-91.200	-5.321	1509.98
87	-512.710	-91.460	-5.471	1510.07

PI #	X (m)	Y (m)	Z (m)	TIME	COMMENTS
337	33.265	-76.133	2.430		
336	19.242	-74.490	2.424		
335	1.074	-74.871	2.828		light pole
334	-1.979	-74.855	2.978		
333	-4.658	-74.644	2.885		snow fence
332	-7.703	-74.673	2.709		
331	-10.726	-74.811	2.360		
330	-14.728	-74.872	2.006		
329	-19.087	-75.058	1.811		
328	-25.343	-74.776	1.581		
327	-28.988	-74.816	1.507		
326	-31.598	-75.129	1.350		
325	-34.868	-75.065	1.138		
324	-38.381	-75.240	0.991		
323	-42.119	-74.823	0.790		
322	-45.648	-74.865	0.464		
321	-47.363	-74.998	0.275		
320	-49.175	-75.768	0.152		
319	-53.404	-75.447	0.018		
318	-55.069	-75.890	-0.020		
317	-56.955	-75.357	0.169		
316	-59.407	-75.370	0.240		
315	-61.821	-76.395	0.204		
314	-65.282	-76.200	0.138		
88	-519.990	-91.780	-5.611	1510.16	
89	-524.040	-91.950	-5.691	1510.21	
90	-528.900	-92.160	-5.771	1510.27	
91	-540.230	-92.640	-5.921	1510.41	
92	-545.900	-92.890	-5.991	1510.48	
93	-550.780	-93.030	-6.061	1510.54	
94	-558.130	-93.180	-6.221	1510.63	
95	-564.670	-93.320	-6.371	1510.71	
96	-568.750	-93.400	-6.441	1510.76	
97	-575.290	-93.540	-6.671	1510.84	
98	-579.370	-93.630	-6.821	1510.89	
99	-581.000	-93.660	-6.821	1510.91	
100	-586.720	-93.780	-6.821	1510.98	
101	-589.160	-93.890	-6.891	1511.01	
102	-591.570	-94.100	-6.891	1511.04	
103	-593.980	-94.310	-6.971	1511.07	
104	-594.790	-94.380	-6.891	1511.08	
105	-598.000	-94.670	-6.891	1511.12	
106	-601.220	-94.950	-6.891	1511.16	
107	-604.430	-95.240	-6.821	1511.20	
108	-606.040	-95.380	-6.741	1511.22	
109	-608.450	-95.590	-6.891	1511.25	
110	-612.470	-95.950	-6.741	1511.30	
111	-613.270	-96.020	-6.671	1511.31	
112	-618.900	-96.520	-6.741	1511.38	
113	-620.510	-96.660	-6.521	1511.40	
114	-630.150	-97.510	-6.741	1511.52	
115	-633.180	-98.010	-6.521	1511.56	
116	-633.920	-98.170	-6.441	1511.57	
117	-637.590	-98.930	-6.671	1511.62	
118	-641.260	-99.700	-6.521	1511.67	
119	-645.660	-100.610	-6.591	1511.73	
120	-650.800	-101.680	-6.521	1511.80	
121	-655.210	-102.600	-6.591	1511.86	
122	-658.880	-103.370	-6.591	1511.91	
123	-662.550	-104.130	-6.741	1511.96	

GILLSON: NLS (MERGED ON- & OFFSHORE PROFILES)

11 February 1990 1215 to 1233 (CST) (ONSHORE)

10 February 1990 1515 to 1528 (CST) (OFFSHORE)

Average offset for 2 points = -0.103158

PI # X (m) Y (m) Z (m) TIME COMMENTS

light pole

snow fence

105	-576.580	-89.510	-6.850	1518.06
104	-578.600	-89.480	-6.930	1518.02
103	-580.660	-89.520	-6.930	1517.98
102	-583.290	-89.650	-7.000	1517.93
101	-583.810	-89.680	-7.000	1517.92
100	-585.910	-89.790	-7.150	1517.88
99	-586.440	-89.810	-7.150	1517.87
98	-586.960	-89.840	-7.080	1517.86
97	-587.490	-89.870	-7.150	1517.85
96	-589.060	-89.950	-7.150	1517.82
95	-590.640	-90.030	-7.150	1517.79
94	-591.160	-90.050	-7.150	1517.78
93	-593.790	-90.190	-7.220	1517.73
92	-595.370	-90.260	-7.220	1517.70
91	-595.890	-90.290	-7.220	1517.69
90	-596.420	-90.320	-7.220	1517.68
89	-598.520	-90.420	-7.150	1517.64
88	-600.090	-90.500	-7.220	1517.61
87	-603.770	-90.690	-7.220	1517.54
86	-605.870	-90.800	-7.220	1517.50
85	-607.900	-90.720	-7.150	1517.46
84	-610.430	-90.630	-7.220	1517.41
83	-612.970	-90.540	-7.220	1517.36
82	-613.980	-90.510	-7.150	1517.34
81	-615.500	-90.450	-7.150	1517.31
80	-616.510	-90.420	-7.150	1517.29
79	-618.030	-90.360	-7.150	1517.26
78	-620.570	-90.270	-7.000	1517.21
77	-622.600	-90.200	-7.000	1517.17
76	-624.120	-90.150	-7.080	1517.14
75	-625.640	-90.090	-7.000	1517.11
74	-628.170	-90.000	-6.930	1517.06
73	-630.200	-89.930	-6.850	1517.02
72	-631.700	-89.970	-6.700	1516.99
71	-632.690	-90.120	-6.780	1516.97
70	-633.680	-90.270	-6.850	1516.95
69	-635.650	-90.570	-6.780	1516.91
68	-636.150	-90.640	-6.930	1516.90
67	-636.640	-90.710	-6.930	1516.89
66	-637.130	-90.790	-6.930	1516.88
65	-637.630	-90.860	-6.930	1516.87
64	-638.120	-90.940	-6.930	1516.86
63	-639.600	-91.160	-6.850	1516.83
62	-641.080	-91.380	-6.930	1516.80
61	-642.560	-91.610	-6.850	1516.77
60	-643.050	-91.680	-6.780	1516.76
59	-644.040	-91.830	-6.850	1516.74
58	-645.520	-92.050	-6.850	1516.71
57	-647.000	-92.280	-6.780	1516.68
56	-648.480	-92.500	-6.700	1516.65
55	-649.960	-92.720	-6.630	1516.62
54	-650.950	-92.870	-6.700	1516.60
53	-652.920	-93.170	-6.850	1516.56
52	-653.910	-93.320	-6.850	1516.54
51	-656.800	-94.020	-6.850	1516.48
50	-658.190	-94.630	-6.700	1516.45
49	-658.650	-94.830	-6.850	1516.44
48	-659.110	-95.030	-6.630	1516.43
47	-659.570	-95.230	-6.930	1516.42
46	-663.250	-96.850	-6.930	1516.34
45	-663.710	-97.060	-6.930	1516.33
44	-667.850	-98.880	-6.850	1516.24
43	-670.150	-99.890	-6.780	1516.19
42	-671.070	-100.300	-6.850	1516.17
41	-672.450	-100.900	-7.000	1516.14
40	-675.210	-102.120	-7.000	1516.08

171	-274.480	-78.780	-3.330	1524.02
170	-275.500	-78.740	-3.180	1524.00
169	-276.010	-78.750	-3.250	1523.99
168	-276.530	-78.770	-3.400	1523.98
167	-277.050	-78.780	-3.400	1523.97
166	-278.080	-78.800	-3.250	1523.95
165	-278.600	-78.810	-3.400	1523.94
164	-282.220	-78.890	-3.330	1523.87
163	-287.390	-79.000	-3.330	1523.77
162	-293.600	-79.160	-3.480	1523.65
161	-298.770	-79.250	-3.480	1523.55
160	-303.850	-79.240	-3.550	1523.45
159	-312.350	-79.010	-3.630	1523.28
158	-317.350	-78.880	-3.700	1523.18
157	-321.350	-78.770	-3.780	1523.10
156	-325.350	-78.670	-3.850	1523.02
155	-332.870	-78.790	-3.930	1522.87
154	-335.870	-78.850	-3.930	1522.81
153	-339.380	-78.930	-4.000	1522.74
152	-343.390	-79.020	-4.000	1522.66
151	-346.390	-79.090	-4.080	1522.60
150	-355.420	-79.440	-4.150	1522.42
149	-360.450	-79.730	-4.230	1522.32
148	-366.980	-80.120	-4.300	1522.19
147	-372.500	-80.440	-4.380	1522.08
146	-381.630	-81.660	-4.450	1521.90
145	-386.220	-82.550	-4.530	1521.81
144	-390.820	-83.440	-4.600	1521.72
143	-397.460	-84.710	-4.600	1521.59
142	-402.560	-85.690	-4.680	1521.49
141	-407.110	-86.510	-4.680	1521.40
140	-410.650	-87.150	-4.750	1521.33
139	-414.690	-87.880	-4.750	1521.25
138	-420.750	-88.970	-4.830	1521.13
137	-427.800	-90.140	-4.900	1520.99
136	-434.040	-90.000	-4.980	1520.86
135	-437.880	-89.920	-5.130	1520.78
134	-443.640	-89.790	-5.130	1520.66
133	-448.920	-89.680	-5.130	1520.55
132	-450.360	-89.640	-5.130	1520.52
131	-453.340	-89.390	-5.130	1520.46
130	-460.950	-88.530	-5.200	1520.31
129	-469.570	-87.550	-5.280	1520.14
128	-480.320	-87.010	-5.430	1519.93
127	-486.570	-87.480	-5.430	1519.81
126	-491.790	-87.860	-5.500	1519.71
125	-498.040	-88.320	-5.580	1519.59
124	-504.840	-88.860	-5.580	1519.46
123	-513.280	-89.600	-5.650	1519.30
122	-516.440	-89.880	-5.720	1519.24
121	-519.600	-90.160	-5.800	1519.18
120	-523.820	-90.530	-5.800	1519.10
119	-530.100	-90.940	-5.880	1518.98
118	-534.140	-90.760	-5.950	1518.90
117	-538.690	-90.550	-6.030	1518.81
116	-542.220	-90.390	-6.030	1518.74
115	-546.260	-90.210	-6.100	1518.66
114	-550.300	-90.030	-6.170	1518.58
113	-551.820	-89.960	-6.250	1518.55
112	-553.840	-89.870	-6.250	1518.51
111	-556.360	-89.810	-6.330	1518.46
110	-558.890	-89.780	-6.400	1518.41
109	-564.950	-89.690	-6.550	1518.29
108	-565.960	-89.670	-6.550	1518.27
107	-569.000	-89.630	-6.630	1518.21
106	-572.530	-89.570	-6.700	1518.14

359	-62.449	-60.018	0.314
360	-67.028	-60.327	0.259
361	-71.029	-60.042	0.198
362	-73.766	-60.472	0.118
363	-77.719	-60.553	0.075
364	-82.587	-59.797	-0.032
365	-85.367	-60.460	-0.067
366	-88.556	-60.836	-0.121
367	-92.846	-60.839	-0.231
368	-97.995	-59.849	-0.267
1	-99.150	-59.780	-0.395
2	-102.310	-59.750	-0.465
3	-106.250	-59.720	-0.465
4	-107.830	-59.700	-0.545
5	-110.990	-59.680	-0.695
6	-114.930	-59.640	-0.845
7	-116.510	-59.630	-0.915
8	-118.090	-59.620	-0.915
9	-122.040	-59.580	-1.215
10	-124.410	-59.570	-1.445
11	-127.560	-59.540	-1.515
12	-132.300	-59.500	-1.595
13	-136.250	-59.470	-1.665
14	-140.190	-59.430	-1.745
15	-144.930	-59.390	-1.815
16	-150.450	-59.350	-2.045
17	-156.770	-59.290	-2.045
18	-163.080	-59.240	-2.045
19	-167.770	-59.240	-1.965
20	-173.770	-59.440	-1.745
21	-176.770	-59.540	-1.665
22	-180.510	-59.660	-1.365
23	-185.010	-59.810	-1.145
24	-188.010	-59.900	-0.995
25	-194.010	-60.100	-0.915
26	-197.810	-60.220	-1.065
27	-205.470	-60.450	-1.215
28	-209.290	-60.560	-1.295
29	-213.890	-60.700	-1.365
30	-218.480	-60.840	-1.515
31	-225.370	-61.040	-1.665
32	-230.730	-61.200	-1.815
33	-236.080	-61.320	-1.965
34	-239.880	-61.360	-2.115
35	-245.200	-61.410	-2.265
36	-249.000	-61.450	-2.345
37	-256.600	-61.530	-2.415
38	-265.720	-61.630	-2.565
39	-274.090	-61.660	-2.715
40	-282.480	-61.530	-2.795
41	-288.590	-61.440	-2.865
42	-294.700	-61.340	-3.015
43	-303.860	-61.200	-3.165
44	-309.200	-61.120	-3.245
45	-316.840	-61.470	-3.395
46	-321.650	-61.720	-3.395
47	-327.840	-62.040	-3.465
48	-334.030	-62.360	-3.615
49	-341.600	-62.750	-3.615
50	-349.710	-62.960	-3.695
51	-354.310	-63.010	-3.765
52	-360.440	-63.080	-3.845
53	-366.570	-63.140	-3.915
54	-371.930	-63.210	-3.995
55	-376.530	-63.260	-4.065
56	-381.890	-63.320	-4.145

PT. #	X (m)	Y (m)	Z (m)	TIME	COMMENTS
39	-677.510	-103.130	-7.080	1516.03	
38	-680.590	-103.280	-7.080	1515.96	
37	-682.280	-102.820	-7.080	1515.92	
36	-682.710	-102.710	-7.080	1515.91	
35	-683.550	-102.480	-7.080	1515.89	
34	-684.830	-102.140	-7.080	1515.86	
33	-685.670	-101.910	-7.080	1515.84	
32	-686.520	-101.680	-7.000	1515.82	
31	-689.060	-101.000	-6.930	1515.76	
30	-689.910	-100.770	-6.850	1515.74	
29	-691.600	-100.310	-7.080	1515.70	
28	-693.720	-99.740	-7.000	1515.65	
27	-694.150	-99.630	-6.930	1515.64	
26	-694.990	-99.400	-7.000	1515.62	
25	-696.260	-99.050	-6.850	1515.59	
24	-697.110	-98.830	-6.850	1515.57	
23	-699.650	-98.140	-7.080	1515.51	
22	-700.850	-97.610	-7.000	1515.48	
21	-701.240	-97.400	-7.000	1515.47	
20	-703.180	-96.360	-6.850	1515.42	
19	-703.960	-95.940	-6.850	1515.40	
18	-705.510	-95.100	-6.700	1515.36	
17	-706.280	-94.690	-6.700	1515.34	
16	-707.450	-94.060	-6.850	1515.31	
15	-709.000	-93.220	-6.780	1515.27	
14	-710.160	-92.600	-6.700	1515.24	
13	-710.940	-92.180	-6.700	1515.22	
12	-712.100	-91.550	-6.700	1515.19	
11	-714.040	-90.510	-6.780	1515.14	
10	-715.980	-89.460	-6.700	1515.09	
9	-716.760	-89.050	-6.700	1515.07	
8	-718.310	-88.210	-6.550	1515.03	
7	-719.470	-87.580	-6.480	1515.00	
6	-720.630	-86.960	-6.550	1514.97	
5	-722.180	-86.120	-6.780	1514.93	
4	-723.740	-85.290	-6.780	1514.89	
3	-725.290	-84.450	-6.780	1514.85	
2	-725.680	-84.240	-6.780	1514.84	
1	-726.840	-83.620	-6.780	1514.81	

GILLSON: NL4 (MERGED ON- & OFFSHORE PROFILES)
 11 February 1990 1235 to 1251 (CST) (ONSHORE)
 10 February 1990 1530 to 1539 (CST) (OFFSHORE)
 Average offset for 3 points = 0.281821

PT. #	X (m)	Y (m)	Z (m)	TIME	COMMENTS
338	35.089	-60.022	2.516		
339	13.744	-59.580	2.350		
340	1.052	-59.929	2.819		
341	-4.830	-60.050	2.875		
342	-8.376	-59.971	2.567		
343	-12.054	-59.666	2.197		
344	-15.686	-59.784	1.948		
345	-19.272	-60.155	1.748		
346	-24.623	-60.033	1.570		
347	-27.591	-60.878	1.457		
348	-32.330	-60.668	1.243		
349	-36.293	-59.877	1.071		
350	-40.811	-59.561	0.942		
351	-44.047	-60.057	0.857		
352	-47.332	-60.128	0.704		
353	-49.478	-59.723	0.693		
354	-52.369	-59.675	0.539		
355	-53.137	-60.001	0.129		
356	-53.132	-59.994	0.127		
357	-54.808	-59.812	0.281		
358	-57.107	-60.750	0.322		

snow fence

PT. #	X (m)	Y (m)	Z (m)	TIME	COMMENTS
123	-666.570	-70.800	-6.695	1537.87	
124	-671.740	-71.380	-6.915	1537.94	
125	-673.220	-71.540	-6.915	1537.96	
126	-674.700	-71.710	-6.835	1537.98	
127	-675.440	-71.790	-6.835	1537.99	
GILLSON: NL3 (MERGED ON- & OFFSHORE PROFILES)					
11 February 1990 1252 to 1303 (CST) (ONSHORE)					
10 February 1990 1540 to 1552 (CST) (OFFSHORE)					
Average offset for 2 points = -0.194537					
480	39.217	-45.591	2.931		
479	34.814	-45.568	2.408		
478	29.259	-45.329	2.336		
477	25.029	-45.401	2.357		
476	20.046	-44.922	2.332		
475	14.660	-44.999	2.381		
474	9.755	-44.851	2.430		
473	4.593	-44.790	2.727		
472	0.691	-44.903	2.888		
471	-5.276	-44.970	3.002		
470	-7.717	-44.907	2.845		
469	-11.791	-44.841	2.470		
468	-15.542	-44.729	2.124		
467	-19.430	-45.093	1.880		
466	-19.448	-44.991	1.864		
399	-22.411	-45.179	1.780		
398	-26.885	-45.012	1.606		
397	-30.051	-44.985	1.530		
396	-33.432	-44.981	1.387		
395	-35.786	-45.280	1.224		
394	-38.501	-45.299	1.090		
393	-41.313	-45.345	0.961		
392	-44.132	-45.240	0.857		
391	-46.795	-45.728	0.667		
390	-50.038	-45.099	0.420		
389	-50.459	-45.558	0.179		
388	-51.177	-45.507	0.071		
387	-53.180	-44.987	0.298		
386	-55.543	-45.577	0.318		
385	-58.851	-45.610	0.343		
384	-62.418	-45.886	0.308		
383	-66.212	-45.178	0.250		
382	-68.617	-45.794	0.186		
381	-72.548	-44.937	0.129		
380	-75.833	-44.983	0.071		
379	-78.747	-45.968	0.002		
378	-82.195	-45.915	-0.069		
377	-86.466	-45.180	-0.141		
376	-90.420	-46.028	-0.217		
375	-94.398	-46.181	-0.282		
374	-98.124	-46.397	-0.395		
0	-99.700	-43.300	-0.502	1551.34	
0	-105.100	-43.970	-0.622	1551.25	
0	-109.100	-44.240	-0.842	1551.18	
0	-114.900	-44.740	-0.992	1551.08	
184	-117.270	-44.950	-1.322	1551.04	
183	-121.350	-45.320	-1.392	1550.97	
182	-123.680	-45.540	-1.392	1550.93	
181	-126.020	-45.760	-1.472	1550.89	
180	-129.520	-46.080	-1.542	1550.83	
179	-134.770	-46.570	-1.622	1550.74	
178	-139.430	-47.000	-1.692	1550.66	
177	-142.930	-47.320	-1.842	1550.60	
176	-146.430	-47.640	-2.072	1550.54	
175	-152.320	-48.120	-2.292	1550.44	

parking lot

snow fence

57	-390.100	-63.020	-4.215	1534.10	
58	-397.540	-62.720	-4.365	1534.20	
59	-406.470	-62.360	-4.445	1534.32	
60	-415.390	-62.000	-4.595	1534.44	
61	-425.220	-61.570	-4.745	1534.57	
62	-432.120	-61.240	-4.815	1534.66	
63	-437.480	-60.990	-4.895	1534.73	
64	-445.140	-60.630	-4.965	1534.83	
65	-454.330	-60.200	-5.045	1534.95	
66	-461.100	-60.140	-5.045	1535.04	
67	-466.970	-60.380	-5.115	1535.12	
68	-472.840	-60.610	-5.195	1535.20	
69	-478.720	-60.850	-5.265	1535.28	
70	-485.320	-61.110	-5.335	1535.37	
71	-490.460	-61.320	-5.415	1535.44	
72	-496.320	-61.520	-5.495	1535.52	
73	-501.410	-61.610	-5.495	1535.59	
74	-509.420	-61.760	-5.565	1535.70	
75	-513.780	-61.830	-5.645	1535.76	
76	-518.870	-61.930	-5.715	1535.83	
77	-523.240	-62.000	-5.865	1535.89	
78	-529.060	-62.110	-5.945	1535.97	
79	-536.350	-62.540	-6.165	1536.07	
80	-541.460	-62.930	-6.245	1536.14	
81	-546.570	-63.320	-6.315	1536.21	
82	-554.600	-63.930	-6.545	1536.32	
83	-562.620	-64.540	-6.765	1536.43	
84	-564.080	-64.650	-6.765	1536.45	
85	-567.730	-64.930	-6.835	1536.50	
86	-569.190	-65.050	-6.695	1536.52	
87	-572.830	-65.610	-6.915	1536.57	
88	-576.470	-66.180	-7.065	1536.62	
89	-579.380	-65.840	-6.765	1536.66	
90	-580.840	-65.950	-6.695	1536.68	
91	-583.750	-66.180	-6.835	1536.72	
92	-593.220	-66.910	-6.695	1536.85	
93	-596.130	-67.140	-6.915	1536.89	
94	-597.590	-67.250	-6.915	1536.91	
95	-599.040	-67.370	-6.615	1536.93	
96	-601.230	-67.530	-6.615	1536.96	
97	-601.960	-67.590	-6.545	1536.97	
98	-603.410	-67.700	-6.615	1536.99	
99	-607.650	-67.760	-6.465	1537.05	
100	-608.350	-67.760	-6.395	1537.06	
101	-611.860	-67.750	-6.545	1537.11	
102	-616.770	-67.750	-6.545	1537.18	
103	-620.970	-67.750	-6.395	1537.24	
104	-623.780	-67.740	-6.245	1537.28	
105	-625.180	-67.740	-6.095	1537.30	
106	-627.990	-67.740	-6.095	1537.34	
107	-629.390	-67.740	-6.095	1537.36	
108	-630.790	-67.740	-6.165	1537.38	
109	-632.900	-67.740	-6.315	1537.41	
110	-637.100	-67.730	-6.465	1537.47	
111	-641.430	-67.980	-6.545	1537.53	
112	-642.170	-68.060	-6.465	1537.54	
113	-643.650	-68.230	-6.695	1537.56	
114	-645.120	-68.390	-6.615	1537.58	
115	-648.080	-68.720	-6.315	1537.62	
116	-648.820	-68.810	-6.465	1537.63	
117	-649.560	-68.890	-6.615	1537.64	
118	-652.520	-69.220	-6.695	1537.68	
119	-656.220	-69.640	-6.835	1537.73	
120	-657.690	-69.800	-6.695	1537.75	
121	-658.430	-69.880	-6.695	1537.76	
122	-663.610	-70.460	-6.765	1537.83	

08/08/1990 13:10	Filename: 9002GL.TXT	08/08/1990 13:10	Filename: 9002GL.TXT
108	-474.500	-55.680	-5.742
107	-476.800	-55.540	-5.742
106	-480.240	-55.330	-5.742
105	-483.690	-55.110	-5.742
104	-488.280	-54.830	-5.812
103	-490.580	-54.690	-5.892
102	-494.020	-54.740	-5.972
101	-498.040	-54.800	-6.042
100	-501.480	-54.860	-6.122
99	-506.070	-54.930	-6.192
98	-506.650	-54.940	-6.262
97	-508.940	-54.970	-6.262
96	-521.820	-55.620	-6.342
95	-525.460	-56.040	-6.422
94	-526.680	-56.180	-6.422
93	-529.720	-56.530	-6.492
92	-533.360	-56.940	-6.492
91	-536.400	-57.290	-6.572
90	-540.650	-57.780	-6.642
89	-544.300	-58.200	-6.722
88	-547.340	-58.550	-6.792
87	-552.090	-58.420	-7.022
86	-556.150	-57.710	-7.092
85	-557.310	-57.500	-7.092
84	-558.470	-57.300	-7.172
83	-559.640	-57.090	-7.092
82	-560.220	-56.990	-7.172
81	-560.800	-56.890	-7.242
80	-563.120	-56.480	-7.242
79	-566.920	-55.970	-7.242
78	-568.020	-55.460	-7.312
77	-571.820	-54.950	-7.312
76	-574.140	-54.540	-7.312
75	-575.300	-54.340	-7.312
74	-578.200	-53.830	-7.242
73	-581.200	-53.740	-7.312
72	-583.020	-53.750	-7.172
71	-586.040	-53.760	-7.092
70	-587.250	-53.770	-7.092
69	-588.460	-53.780	-7.172
68	-589.670	-53.780	-6.942
67	-598.750	-53.830	-7.172
66	-600.560	-53.840	-7.022
65	-602.380	-53.850	-7.022
64	-606.010	-53.870	-7.022
63	-607.220	-53.880	-7.022
62	-608.430	-53.890	-7.022
61	-611.400	-53.890	-7.022
60	-613.180	-53.880	-6.872
59	-613.770	-53.880	-6.942
58	-615.550	-53.880	-6.942
57	-617.320	-53.880	-7.172
56	-620.880	-53.870	-6.942
55	-623.840	-53.870	-6.792
54	-624.440	-53.870	-6.872
53	-626.210	-53.870	-6.872
52	-629.770	-53.860	-7.022
51	-630.950	-53.860	-7.092
50	-633.320	-53.860	-7.022
49	-635.690	-53.850	-6.942
48	-636.290	-53.850	-7.022
47	-639.260	-53.880	-7.242
46	-641.060	-53.970	-7.172
45	-641.660	-54.000	-7.172
44	-642.260	-54.030	-7.172
43	-643.460	-54.090	-7.172

08/08/1990 13:10	Filename: 9002GL.TXT	08/08/1990 13:10	Filename: 9002GL.TXT
174	-155.280	-48.340	-2.372
173	-158.240	-48.550	-2.442
172	-161.200	-48.770	-2.522
171	-164.160	-48.990	-2.522
170	-168.310	-49.290	-2.522
169	-170.080	-49.420	-2.442
168	-172.450	-49.600	-2.442
167	-175.410	-49.810	-2.292
166	-178.960	-50.010	-2.072
165	-180.720	-49.960	-1.992
164	-183.660	-49.870	-1.842
163	-186.010	-49.790	-1.692
162	-187.770	-49.740	-1.692
161	-192.480	-49.590	-1.542
160	-194.240	-49.530	-1.542
159	-197.180	-49.440	-1.542
158	-201.290	-49.310	-1.622
157	-205.400	-49.180	-1.772
156	-208.320	-49.070	-1.842
155	-212.830	-48.760	-1.842
154	-218.480	-48.380	-1.922
153	-222.430	-48.110	-1.992
152	-230.330	-47.570	-2.222
151	-234.290	-47.300	-2.292
150	-240.930	-47.310	-2.442
149	-245.880	-47.440	-2.592
148	-252.480	-47.620	-2.822
147	-257.970	-47.760	-2.892
146	-263.470	-47.910	-2.972
145	-268.940	-48.300	-3.042
144	-274.950	-48.730	-3.042
143	-282.610	-49.280	-3.272
142	-289.170	-49.750	-3.422
141	-294.010	-49.820	-3.492
140	-300.960	-49.710	-3.572
139	-309.500	-49.580	-3.642
138	-313.770	-49.510	-3.722
137	-318.660	-49.540	-3.722
136	-323.250	-49.870	-3.872
135	-328.980	-50.280	-3.942
134	-336.440	-50.810	-4.022
133	-342.170	-51.220	-4.022
132	-348.460	-51.290	-4.092
131	-356.420	-50.520	-4.172
130	-363.250	-49.850	-4.242
129	-368.370	-49.360	-4.322
128	-399.860	-50.210	-4.692
127	-405.090	-50.610	-4.842
126	-409.860	-51.140	-4.992
125	-416.400	-51.870	-5.142
124	-419.980	-52.270	-5.222
123	-424.740	-52.800	-5.292
122	-427.120	-53.070	-5.372
121	-430.690	-53.470	-5.372
120	-431.290	-53.540	-5.372
119	-431.880	-53.600	-5.372
118	-432.480	-53.670	-5.372
117	-435.950	-54.010	-5.442
116	-440.560	-54.440	-5.442
115	-445.170	-54.880	-5.442
114	-450.930	-55.430	-5.522
113	-456.110	-55.920	-5.522
112	-460.720	-56.350	-5.522
111	-465.890	-56.210	-5.592
110	-469.330	-56.000	-5.672
109	-471.630	-55.860	-5.672

GILLSON: NL2 (MERGED ON- & OFFSHORE PROFILES)									
11 February 1990 1305 to 1315 (CST) (ONSHORE)									
10 February 1990 1555 to 1602 (CST) (OFFSHORE)									
Average offset for 4 points = 0.020645									
PT. #	X (m)	Y (m)	Z (m)	TIME	COMMENTS				
					parking lot				
42	-645.260	-54.180	-7.092	1541.89	404	-31.251	-30.073	1.428	
41	-648.260	-54.330	-7.092	1541.84	450	-33.332	-30.362	1.280	
40	-652.470	-54.540	-7.022	1541.77	405	-34.520	-30.443	1.224	
39	-653.070	-54.570	-7.172	1541.76	449	-38.551	-29.981	1.028	
38	-655.470	-54.690	-7.242	1541.72	406	-38.763	-29.995	1.025	
37	-659.070	-54.870	-7.172	1541.66	407	-43.409	-30.214	0.744	
36	-661.470	-54.990	-7.242	1541.62	448	-43.580	-29.880	0.778	
35	-663.880	-55.110	-7.242	1541.58	408	-45.546	-30.477	0.449	
34	-666.280	-55.230	-7.242	1541.54	409	-47.144	-30.671	0.316	
33	-668.080	-55.320	-7.242	1541.51	410	-48.474	-30.750	0.083	
32	-668.680	-55.350	-7.242	1541.50	411	-51.577	-30.481	0.041	
31	-669.790	-55.280	-7.242	1541.48	412	-52.666	-30.152	0.224	
30	-672.580	-55.110	-7.242	1541.43	413	-56.627	-30.348	0.270	
29	-674.250	-55.010	-7.312	1541.40	414	-60.439	-31.014	0.204	
28	-675.920	-54.910	-7.242	1541.37	415	-65.066	-30.382	0.127	
27	-677.040	-54.850	-7.312	1541.35	416	-65.114	-30.413	0.114	
26	-680.940	-54.610	-7.312	1541.28	417	-69.730	-30.428	0.047	
25	-683.170	-54.480	-7.242	1541.24	418	-75.079	-30.435	-0.038	
24	-683.720	-54.440	-7.242	1541.23	419	-79.671	-31.325	-0.139	
23	-685.390	-54.340	-7.242	1541.20	1	-81.660	-28.840	-0.196	1555.32
22	-685.950	-54.310	-7.312	1541.19	2	-84.500	-29.070	-0.196	1553.37
21	-689.850	-54.070	-7.242	1541.12	3	-86.770	-29.270	-0.276	1555.41
20	-692.080	-53.940	-7.172	1541.08	4	-89.040	-29.460	-0.356	1555.45
19	-692.640	-53.900	-7.022	1541.07	5	-90.740	-29.600	-0.356	1555.48
18	-693.200	-53.870	-6.872	1541.06	6	-95.280	-29.980	-0.506	1555.56
17	-693.750	-53.840	-7.092	1541.05	7	-97.540	-30.170	-0.506	1555.60
16	-694.310	-53.800	-7.172	1541.04	8	-101.510	-30.510	-0.576	1555.67
15	-696.540	-53.670	-7.242	1541.00	9	-104.920	-30.790	-0.576	1555.73
14	-697.100	-53.640	-7.242	1540.99	10	-107.190	-30.980	-0.506	1555.77
13	-697.650	-53.600	-7.312	1540.98	11	-110.590	-31.270	-0.576	1555.83
12	-698.770	-53.530	-7.312	1540.96	12	-112.860	-31.460	-0.726	1555.87
11	-701.000	-53.400	-7.392	1540.92	13	-114.560	-31.600	-0.876	1555.90
10	-702.110	-53.330	-7.312	1540.90	14	-117.400	-31.840	-1.026	1555.95
9	-703.220	-53.270	-7.312	1540.88	15	-120.230	-32.080	-1.176	1556.00
8	-704.900	-53.160	-7.092	1540.85	16	-121.370	-32.180	-1.256	1556.02
7	-706.570	-53.060	-7.022	1540.82	17	-121.930	-32.220	-1.256	1556.03
6	-716.040	-52.490	-7.172	1540.65	18	-122.500	-32.270	-1.326	1556.04
5	-717.710	-52.390	-7.092	1540.62	19	-123.070	-32.320	-1.326	1556.05
4	-718.820	-52.320	-7.092	1540.60	20	-123.630	-32.370	-1.406	1556.06
3	-719.940	-52.260	-7.092	1540.58	21	-127.540	-32.710	-1.556	1556.13
2	-721.610	-52.160	-7.172	1540.55	22	-129.770	-32.910	-1.626	1556.17
1	-722.720	-52.090	-7.092	1540.53	23	-132.010	-33.110	-1.706	1556.21
GILLSON: NL2 (MERGED ON- & OFFSHORE PROFILES)									
11 February 1990 1305 to 1315 (CST) (ONSHORE)									
10 February 1990 1555 to 1602 (CST) (OFFSHORE)									
Average offset for 4 points = 0.020645									
PT. #	X (m)	Y (m)	Z (m)	TIME	COMMENTS				
466	41.553	-30.243	2.939		24	-134.250	-33.300	-1.776	1556.25
465	36.387	-29.053	2.430		25	-137.040	-33.550	-1.926	1556.30
464	30.359	-29.153	2.305		26	-148.220	-34.530	-2.076	1556.50
463	24.572	-29.211	2.301		27	-150.640	-34.160	-2.076	1556.54
462	18.026	-29.704	2.300		28	-153.060	-33.800	-2.156	1556.58
461	12.321	-29.677	2.400		29	-155.480	-33.430	-2.226	1556.62
460	5.181	-29.777	2.653		30	-159.110	-32.880	-2.306	1556.68
459	0.477	-29.836	2.972		31	-160.320	-32.700	-2.306	1556.70
458	-1.630	-29.771	3.084		32	-163.350	-32.240	-2.156	1556.75
456	-7.362	-29.961	3.051		33	-166.370	-31.790	-2.076	1556.80
455	-10.768	-30.141	2.634		34	-170.000	-31.240	-1.926	1556.86
454	-15.065	-30.254	2.230		35	-173.630	-30.690	-1.776	1556.92
401	-19.962	-29.953	1.895		36	-176.050	-30.320	-1.706	1556.96
453	-20.017	-29.967	1.896		37	-178.470	-29.960	-1.626	1557.00
402	-23.918	-29.930	1.691		38	-179.600	-30.010	-1.556	1557.02
452	-24.249	-30.249	1.651		39	-182.410	-30.150	-1.476	1557.07
403	-27.519	-30.009	1.544		40	-185.780	-30.320	-1.406	1557.13
451	-29.350	-30.137	1.491		41	-188.030	-30.430	-1.326	1557.17

48	-206.040	-31.310	-1.556	1557.49
49	-208.290	-31.420	-1.706	1557.53
50	-208.850	-31.440	-1.706	1557.54
51	-211.930	-31.660	-1.856	1557.65
52	-214.440	-31.840	-1.856	1557.72
53	-217.960	-32.100	-1.856	1557.79
54	-221.480	-32.350	-2.006	1557.86
55	-225.000	-32.610	-2.156	1557.93
56	-228.520	-32.870	-2.156	1557.96
57	-230.020	-32.980	-2.156	1557.97
58	-230.530	-33.010	-2.226	1557.99
59	-231.530	-33.090	-2.306	1558.05
60	-234.660	-33.240	-2.376	1558.12
61	-238.340	-33.400	-2.456	1558.18
62	-241.490	-33.540	-2.526	1558.22
63	-243.590	-33.630	-2.606	1558.32
64	-248.850	-33.870	-2.676	1558.36
65	-250.950	-33.960	-2.756	1558.41
66	-253.580	-34.070	-2.826	1558.50
67	-258.310	-34.280	-2.906	1558.56
68	-261.560	-34.040	-2.976	1558.68
69	-264.820	-33.800	-2.976	1558.72
70	-268.080	-33.560	-3.056	1558.80
71	-270.250	-33.400	-3.126	1558.87
72	-274.590	-33.080	-3.206	1559.04
73	-278.390	-32.800	-3.276	1559.12
74	-282.190	-32.520	-3.276	1559.18
75	-287.430	-32.330	-3.426	1559.30
76	-291.400	-32.420	-3.426	1559.41
77	-294.380	-32.500	-3.506	1559.52
78	-300.340	-32.770	-3.576	1559.62
79	-305.800	-32.900	-3.726	1559.96
80	-311.260	-33.250	-3.806	1600.11
81	-316.220	-33.010	-3.956	1600.29
82	-326.150	-33.420	-4.026	1600.45
83	-333.100	-33.420	-4.176	1600.67
84	-340.700	-33.520	-4.276	1601.21
85	-350.270	-33.450	-4.926	1601.28
86	-358.780	-33.380	-5.076	1601.37
87	-370.470	-33.280	-5.306	1601.47
88	-397.190	-35.180	-5.526	1601.55
89	-400.240	-35.860	-6.126	1601.60
90	-404.170	-36.740	-6.046	1601.64
91	-408.540	-37.710	-6.046	1601.65
92	-412.040	-38.490	-5.976	1601.69
93	-414.560	-38.810	-5.976	1601.75
94	-416.720	-39.010	-5.976	1601.80
95	-417.260	-39.050	-5.976	1601.83
96	-419.410	-39.250	-5.976	1601.84
97	-422.650	-39.530	-6.126	1601.90
98	-425.350	-39.770	-6.276	1601.92
99	-426.960	-39.920	-5.826	1601.96
100	-427.500	-39.960	-5.756	1602.01
101	-430.740	-40.250	-5.826	1602.06
102	-431.870	-40.350	-5.756	1602.12
103	-433.920	-40.540	-5.826	1602.19
104	-436.670	-40.780	-5.756	1602.25
105	-439.370	-41.020	-5.756	1602.28
106	-442.600	-41.300	-5.826	1602.36
107	-446.380	-41.640	-5.756	1602.45
108	-449.610	-41.930	-5.826	1602.50
109	-451.230	-42.070	-5.756	
110	-455.540	-42.450	-5.756	
111	-457.700	-42.640	-5.756	
112	-460.400	-42.880	-5.826	
113	-463.090	-43.120	-5.826	

GILLSON: NL1 (MERGED ON- & OFFSHORE PROFILES)				
11 February 1990	1345 to 1430 (CST) (ONSHORE)			
10 February 1990	1604 to 1615 (CST) (OFFSHORE)			
Average offset for 1 point = -0.297149				
PT. #	X (m)	Y (m)	Z (m)	TIME COMMENTS
447	43.363	-14.466	2.867	
446	37.074	-13.952	2.505	
445	30.488	-14.066	2.278	
444	25.335	-13.930	2.156	
453	18.306	-14.559	2.148	
452	12.434	-14.706	2.202	
451	6.594	-14.701	2.406	
450	0.309	-14.906	2.767	
449	-3.286	-15.009	2.915	
448	-5.770	-15.161	2.858	
447	-9.105	-15.184	2.677	
446	-12.190	-15.093	2.401	
445	-16.314	-14.929	2.059	
444	-19.657	-15.108	1.787	
443	-24.509	-15.244	1.520	
442	-28.093	-15.182	1.340	
441	-31.858	-15.378	1.281	
440	-35.641	-15.435	0.994	
439	-39.492	-15.519	0.712	
438	-41.558	-14.994	0.310	
437	-43.737	-15.483	0.053	
436	-46.180	-15.515	-0.198	
435	-49.473	-15.491	-0.215	
434	-53.574	-15.662	-0.273	
433	-58.640	-15.697	-0.199	
432	-66.714	-16.635	-0.363	
431	-67.394	-15.745	-0.234	
430	-71.422	-16.076	-0.269	
429	-76.095	-14.953	-0.317	
428	-80.925	-15.199	-0.342	
0	-87.300	-16.400	-0.574	1614.64
0	-89.600	-16.410	-0.544	1614.58
0	-91.200	-16.420	-0.604	1614.54
141	-93.150	-16.440	-0.824	1614.49
140	-93.940	-16.440	-0.824	1614.47
139	-100.620	-16.490	-0.894	1614.30
138	-102.190	-16.500	-0.894	1614.26
137	-103.370	-16.510	-0.824	1614.23
136	-104.150	-16.510	-0.824	1614.21
135	-104.550	-16.510	-0.824	1614.20
134	-104.940	-16.520	-0.824	1614.19
133	-106.900	-16.530	-0.824	1614.14
132	-108.870	-16.540	-0.824	1614.09
131	-109.650	-16.550	-0.824	1614.07
130	-111.230	-16.560	-0.824	1614.03
129	-112.010	-16.560	-0.824	1614.01
128	-112.410	-16.570	-0.894	1614.00
127	-112.890	-16.490	-0.894	1613.99
126	-113.850	-16.340	-0.974	1613.97
125	-116.730	-15.870	-1.194	1613.91
124	-119.610	-15.410	-1.344	1613.85
123	-123.450	-14.800	-1.644	1613.77
122	-126.330	-14.340	-1.794	1613.71
121	-128.250	-14.030	-1.874	1613.67
120	-132.570	-13.340	-2.324	1613.58
119	-134.010	-13.110	-2.394	1613.55
118	-135.460	-12.880	-2.324	1613.52
117	-137.570	-12.760	-2.394	1613.47
116	-140.270	-12.850	-2.474	1613.40
115	-142.590	-12.930	-2.474	1613.34

snow fence

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114	-144.900	-13.010	-2.544	1613.28
113	-147.210	-13.090	-2.624	1613.22
112	-149.530	-13.170	-2.694	1613.16
111	-151.450	-13.230	-2.774	1613.11
110	-153.380	-13.300	-2.844	1613.06
109	-155.310	-13.360	-2.944	1613.01
108	-157.700	-13.380	-2.694	1613.00
107	-157.130	-13.550	-2.624	1612.96
106	-157.850	-13.630	-2.624	1612.94
105	-161.440	-14.050	-2.694	1612.84
104	-163.230	-14.270	-2.694	1612.79
103	-165.390	-14.520	-2.774	1612.73
102	-167.180	-14.730	-2.774	1612.68
101	-169.330	-14.980	-2.774	1612.62
100	-170.770	-15.150	-2.694	1612.58
99	-171.130	-15.190	-2.694	1612.57
98	-172.560	-15.360	-2.624	1612.53
97	-174.410	-15.570	-2.474	1612.48
96	-177.110	-15.840	-2.244	1612.41
95	-186.770	-16.810	-1.644	1612.16
94	-189.470	-17.080	-1.574	1612.09
93	-191.780	-17.320	-1.574	1612.03
92	-194.080	-17.630	-1.644	1611.97
91	-195.960	-17.950	-1.644	1611.86
90	-198.230	-18.330	-1.644	1611.80
89	-200.490	-18.720	-1.794	1611.75
88	-202.380	-19.040	-1.794	1611.70
87	-205.780	-19.620	-1.874	1611.66
86	-208.420	-20.070	-1.874	1611.59
85	-211.820	-20.650	-1.944	1611.50
84	-214.860	-20.640	-2.024	1611.42
83	-219.050	-20.610	-2.094	1611.31
82	-222.850	-20.590	-2.174	1611.21
81	-226.650	-20.570	-2.324	1611.11
80	-228.930	-20.560	-2.324	1611.05
79	-231.580	-20.640	-2.394	1610.98
78	-236.830	-21.290	-2.544	1610.84
77	-240.580	-21.760	-2.544	1610.76
76	-243.950	-22.180	-2.694	1610.65
75	-246.950	-22.550	-2.774	1610.57
74	-251.030	-22.730	-2.844	1610.46
73	-253.230	-22.500	-2.924	1610.40
72	-255.420	-22.270	-2.994	1610.34
71	-260.170	-21.770	-3.074	1610.21
70	-265.650	-21.200	-3.144	1610.06
69	-272.180	-21.160	-3.224	1609.88
68	-275.070	-21.290	-3.294	1609.80
67	-278.330	-21.430	-3.294	1609.71
66	-279.780	-21.490	-3.374	1609.67
65	-284.120	-21.690	-3.444	1609.55
64	-285.160	-21.500	-3.444	1609.52
63	-286.890	-21.190	-3.444	1609.47
62	-289.660	-20.690	-3.524	1609.39
61	-292.430	-20.190	-3.524	1609.31
60	-296.930	-19.370	-3.524	1609.18
59	-300.390	-18.750	-3.594	1609.08
58	-303.510	-18.180	-3.674	1608.99
57	-306.600	-17.560	-3.674	1608.90
56	-310.380	-16.800	-3.744	1608.79
55	-313.470	-16.180	-3.744	1608.70
54	-316.220	-15.630	-3.744	1608.62
53	-318.290	-15.210	-3.824	1608.56
52	-322.140	-14.650	-3.824	1608.45
51	-327.170	-14.240	-3.824	1608.31
50	-332.200	-13.820	-3.824	1608.17
49	-335.800	-13.520	-3.894	1608.07

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48	-340.330	-13.330	-3.974	1607.94
47	-345.360	-13.380	-4.044	1607.79
46	-347.710	-13.400	-4.124	1607.72
45	-351.740	-13.440	-4.124	1607.60
44	-354.430	-13.460	-4.194	1607.52
43	-359.430	-13.390	-4.274	1607.38
42	-364.120	-13.290	-4.344	1607.25
41	-368.100	-13.220	-4.424	1607.14
40	-372.430	-13.130	-4.574	1607.02
39	-377.420	-13.310	-4.644	1606.89
38	-382.850	-13.570	-4.724	1606.75
37	-386.340	-13.730	-4.794	1606.66
36	-390.210	-13.910	-4.794	1606.56
35	-392.940	-14.080	-4.874	1606.49
34	-397.780	-14.900	-5.024	1606.37
33	-404.620	-16.050	-5.174	1606.20
32	-409.050	-16.800	-5.324	1606.09
31	-425.690	-16.410	-5.994	1605.69
30	-427.790	-16.250	-6.144	1605.64
29	-431.560	-15.960	-6.364	1605.55
28	-433.660	-15.800	-6.444	1605.50
27	-434.080	-15.750	-6.524	1605.49
26	-434.500	-15.690	-6.524	1605.48
25	-434.910	-15.640	-6.524	1605.47
24	-437.000	-15.390	-6.594	1605.42
23	-439.510	-15.080	-6.674	1605.36
22	-441.180	-14.870	-6.744	1605.32
21	-444.110	-14.510	-6.894	1605.25
20	-447.030	-14.150	-6.824	1605.18
19	-447.870	-14.040	-6.894	1605.16
18	-450.800	-13.680	-6.974	1605.09
17	-453.300	-13.370	-7.044	1605.03
16	-454.560	-13.220	-6.674	1605.00
15	-455.470	-13.290	-6.744	1604.98
14	-456.380	-13.370	-7.044	1604.96
13	-460.030	-13.660	-6.974	1604.88
12	-461.850	-13.810	-6.894	1604.84
11	-463.680	-13.960	-6.894	1604.80
10	-465.960	-14.150	-6.894	1604.75
9	-467.780	-14.300	-6.974	1604.71
8	-470.060	-14.480	-6.974	1604.66
7	-473.260	-14.740	-6.974	1604.59
6	-475.540	-14.930	-6.894	1604.54
5	-476.910	-15.040	-6.824	1604.51
4	-477.360	-15.080	-6.744	1604.50
3	-478.730	-15.190	-6.744	1604.47
2	-479.640	-15.260	-6.824	1604.45
1	-480.550	-15.340	-6.744	1604.43

GILLSON: MAIN LINE (MERGED ON- & OFFSHORE PROFILES)

11 February 1990 0900 to 0937 (CST) (ONSHORE)

10 February 1990 1328 to 1337 (CST) (OFFSHORE)

Average offset for 3 points = 0.095766

PT. #	X (m)	Y (m)	Z (m)	TIME	COMMENTS
2	16.930	-0.090	2.516		
3	12.241	-0.083	2.453		
4	8.100	0.151	2.558		
5	3.859	0.094	2.719		
6	0.620	0.146	2.878		
7	-4.490	0.180	3.013		
8	-8.616	-0.102	2.917		snow fence
9	-12.691	-0.076	2.594		
10	-16.142	-0.301	2.316		
11	-20.224	-0.216	2.033		
12	-23.736	-0.264	1.801		SLW90-1
13	-28.362	-0.282	1.563		

14	-33.026	0.053	1.402	49	-281.040	-1.470	-2.901	1333.12
15	-36.800	0.040	1.155	50	-286.210	-1.180	-2.901	1333.18
16	-39.485	-0.084	0.937	51	-288.800	-1.030	-2.981	1333.21
17	-40.906	-0.371	0.765	52	-298.290	-0.500	-3.051	1333.32
18	-43.433	-0.600	0.376	53	-306.050	-0.060	-3.131	1333.41
19	-45.608	-0.222	0.061	54	-313.810	0.380	-3.201	1333.50
20	-48.480	-0.043	-0.042	55	-321.480	-0.380	-3.281	1333.59
21	-51.320	-0.717	0.005	56	-325.740	-0.800	-3.351	1333.64
22	-57.087	-0.724	0.019	57	-335.120	-1.730	-3.501	1333.75
23	-62.076	-0.723	0.016	58	-341.080	-2.320	-3.581	1333.82
24	-67.296	-0.707	-0.090	59	-345.340	-2.740	-3.581	1333.87
25	-70.930	-0.084	-0.129	60	-353.010	-3.500	-3.731	1333.96
26	-74.043	-0.203	-0.204	61	-358.070	-3.830	-3.801	1334.02
27	-78.751	-1.170	-0.276	62	-363.010	-3.800	-3.881	1334.08
28	-83.362	-1.646	-0.372	63	-368.790	-3.770	-3.881	1334.15
29	-87.097	-0.818	-0.356	64	-374.560	-3.730	-3.951	1334.22
30	-91.295	-1.603	-0.328	65	-378.680	-3.710	-4.101	1334.27
31	-96.553	-1.832	-0.376	66	-385.280	-3.670	-4.331	1334.35
1	-97.730	-1.840	-0.281	67	-390.230	-3.640	-4.401	1334.41
2	-100.900	-1.790	-0.281	68	-391.060	-3.630	-4.481	1334.42
3	-104.070	-1.730	-0.431	69	-397.650	-3.590	-4.701	1334.50
4	-107.240	-1.680	-0.501	70	-406.950	-3.230	-4.851	1334.61
5	-108.290	-1.660	-0.581	71	-412.020	-3.040	-5.001	1334.67
6	-111.460	-1.600	-0.731	72	-417.090	-2.840	-5.081	1334.73
7	-113.570	-1.560	-0.801	73	-419.630	-2.740	-5.301	1334.76
8	-114.630	-1.550	-0.881	74	-422.170	-2.640	-5.431	1334.79
9	-117.800	-1.490	-0.951	75	-425.550	-2.510	-5.831	1334.83
10	-119.910	-1.450	-1.031	76	-428.930	-2.380	-5.971	1334.87
11	-126.250	-1.340	-1.181	77	-431.460	-2.280	-5.971	1334.90
12	-129.420	-1.280	-1.251	78	-434.000	-2.190	-5.971	1334.93
13	-132.580	-1.230	-1.331	79	-437.380	-2.060	-6.051	1334.97
14	-135.750	-1.170	-1.401	80	-440.760	-1.990	-6.201	1335.01
15	-141.030	-1.080	-1.481	81	-444.150	-2.130	-6.201	1335.05
16	-145.260	-1.010	-1.631	82	-449.240	-2.340	-6.351	1335.11
17	-148.430	-0.950	-1.781	83	-453.470	-2.510	-6.431	1335.16
18	-152.650	-0.870	-1.931	84	-456.020	-2.610	-6.431	1335.19
19	-154.760	-0.840	-2.001	85	-460.250	-2.780	-6.581	1335.24
20	-162.160	-0.710	-2.301	86	-467.030	-3.060	-6.581	1335.32
21	-165.330	-0.650	-2.301	87	-471.270	-3.230	-6.431	1335.37
22	-168.500	-0.590	-2.381	88	-472.120	-3.260	-6.431	1335.38
23	-172.720	-0.520	-2.381	89	-475.500	-3.400	-6.581	1335.42
24	-176.950	-0.450	-2.381	90	-478.890	-3.540	-6.651	1335.46
25	-179.060	-0.410	-2.301	91	-482.280	-3.680	-6.651	1335.50
26	-182.230	-0.350	-2.231	92	-486.520	-3.850	-6.431	1335.55
27	-184.340	-0.310	-2.151	93	-487.370	-3.880	-6.651	1335.56
28	-189.320	-0.280	-1.851	94	-500.930	-4.430	-6.801	1335.72
29	-190.070	-0.330	-1.701	95	-501.770	-4.470	-6.731	1335.73
30	-191.570	-0.410	-1.481	96	-504.310	-4.570	-6.581	1335.76
31	-193.830	-0.550	-1.251	97	-506.010	-4.640	-6.201	1335.78
32	-196.090	-0.680	-1.181	98	-508.550	-4.740	-5.901	1335.81
33	-200.600	-0.940	-1.181	99	-509.400	-4.780	-5.901	1335.82
34	-202.860	-1.070	-1.181	100	-512.790	-4.920	-6.131	1335.86
35	-220.160	-2.070	-1.631	101	-514.480	-4.980	-6.281	1335.88
36	-224.670	-2.300	-1.701	102	-515.330	-5.020	-6.351	1335.89
37	-228.850	-2.400	-1.851	103	-516.180	-5.050	-6.501	1335.90
38	-235.970	-2.340	-2.001	104	-520.410	-5.230	-6.651	1335.95
39	-241.310	-2.290	-2.081	105	-523.800	-5.360	-6.801	1335.99
40	-244.870	-2.270	-2.151	106	-526.240	-5.460	-6.881	1336.02
41	-248.430	-2.240	-2.301	107	-528.620	-5.570	-6.801	1336.05
42	-254.670	-2.190	-2.451	108	-531.790	-5.700	-6.801	1336.09
43	-260.010	-2.140	-2.531	109	-535.760	-5.870	-6.951	1336.14
44	-261.790	-2.130	-2.601	110	-539.720	-6.040	-7.101	1336.19
45	-267.130	-2.080	-2.681	111	-540.520	-6.070	-7.021	1336.20
46	-268.910	-2.070	-2.681	112	-546.070	-6.310	-7.181	1336.27
47	-271.550	-2.010	-2.681	113	-548.450	-6.410	-7.021	1336.30
48	-278.450	-1.620	-2.831	114	-551.630	-6.550	-7.101	1336.34

SLM90-2
SLM90-3
SLM90-4
SLM90-5
SLM90-6

SLM90-7

19	-147.860	12.270	-1.367	1628.00
20	-152.120	12.400	-1.597	1628.07
21	-156.980	12.540	-1.747	1628.15
22	-159.410	12.620	-1.897	1628.19
23	-164.270	12.760	-2.047	1628.27
24	-168.530	12.890	-2.117	1628.34
25	-172.790	13.020	-2.117	1628.41
26	-175.830	13.110	-2.117	1628.46
27	-178.260	13.190	-1.967	1628.50
28	-181.780	13.080	-1.747	1628.56
29	-184.710	12.990	-1.517	1628.61
30	-187.640	12.900	-1.297	1628.66
31	-191.160	12.790	-1.147	1628.72
32	-194.680	12.680	-1.067	1628.78
33	-199.380	12.530	-1.147	1628.86
34	-204.660	12.370	-1.147	1628.95
35	-208.800	12.220	-1.217	1629.02
36	-213.030	12.020	-1.297	1629.09
37	-216.660	11.840	-1.367	1629.15
38	-224.510	11.470	-1.517	1629.28
39	-228.740	11.270	-1.597	1629.35
40	-234.180	11.010	-1.747	1629.44
41	-256.230	10.710	-2.197	1629.80
42	-260.530	10.680	-2.267	1629.87
43	-269.720	10.780	-2.417	1630.02
44	-277.630	11.760	-2.567	1630.15
45	-284.320	12.600	-2.647	1630.26
46	-290.410	13.360	-2.717	1630.36
47	-298.310	14.340	-2.797	1630.49
48	-306.880	14.070	-2.947	1630.63
49	-314.830	13.720	-3.017	1630.76
50	-321.560	13.430	-3.097	1630.87
51	-327.680	13.160	-3.167	1630.97
52	-335.920	12.690	-3.247	1631.11
53	-341.150	12.370	-3.247	1631.20
54	-344.650	12.160	-3.317	1631.26
55	-345.230	12.130	-3.317	1631.27
56	-349.880	11.840	-3.397	1631.35
57	-355.120	11.530	-3.547	1631.44
58	-360.940	11.180	-3.617	1631.54
59	-369.330	10.510	-3.767	1631.70
60	-373.490	10.180	-3.847	1631.78
61	-377.660	9.840	-3.917	1631.86
62	-383.380	9.380	-4.067	1631.97
63	-388.640	9.090	-4.147	1632.06
64	-399.060	8.760	-4.217	1632.22
65	-406.230	8.540	-4.367	1632.33
66	-413.390	8.310	-4.447	1632.44
67	-421.260	7.890	-4.597	1632.57
68	-426.910	7.460	-4.747	1632.67
69	-431.430	7.120	-4.817	1632.75
70	-435.940	6.780	-4.967	1632.83
71	-439.900	6.480	-5.047	1632.90
72	-443.290	6.220	-5.197	1632.96
73	-448.550	6.430	-5.417	1633.05
74	-453.340	7.030	-5.647	1633.13
75	-455.740	7.330	-5.787	1633.17
76	-458.140	7.630	-5.947	1633.21
77	-459.340	7.780	-5.947	1633.23
78	-459.940	7.860	-5.947	1633.24
79	-460.540	7.930	-5.867	1633.25
80	-462.340	8.160	-6.017	1633.28
81	-463.530	8.310	-6.017	1633.30
82	-464.130	8.380	-5.947	1633.31
83	-466.530	8.680	-6.017	1633.35
84	-468.330	8.910	-6.097	1633.38

115	-554.010	-6.650	-7.021	1336.37
116	-556.390	-6.750	-6.881	1336.40
117	-557.970	-6.820	-6.881	1336.42
118	-561.940	-6.990	-7.021	1336.47
119	-563.530	-7.060	-7.101	1336.49
GILLSON: SL1 (MERGED ON- & OFFSHORE PROFILES)				
11 February 1990 1128 to 1147 (CST) (ONSHORE)				
10 February 1990 1625 to 1635 (CST) (OFFSHORE)				
Average offset for 1 point 0.280473				
PT. #	X (m)	Y (m)	Z (m)	TIME COMMENTS
269	12.437	15.406	2.720	
268	10.496	15.205	2.527	
267	7.653	15.143	2.494	
266	3.727	15.022	2.662	
265	0.071	15.118	2.811	
264	-2.528	14.847	2.855	
263	-5.425	14.931	2.868	
262	-8.768	15.389	2.758	
261	-10.807	14.817	2.760	
260	-13.850	14.886	2.484	
259	-16.651	14.980	2.285	
258	-19.787	15.002	2.068	
257	-21.599	14.697	1.952	
256	-24.709	14.657	1.781	
255	-27.620	14.715	1.626	
254	-30.748	14.745	1.516	
253	-33.679	14.930	1.396	
252	-36.881	14.588	1.227	
251	-40.098	14.518	1.046	
250	-42.891	14.793	0.800	
249	-45.101	14.618	0.509	
248	-47.229	14.967	0.309	
247	-47.804	15.025	0.161	
246	-49.765	14.347	-0.009	
245	-52.473	14.943	-0.009	
244	-55.965	14.278	-0.016	
243	-59.544	14.773	-0.017	
242	-63.482	14.018	-0.006	
241	-66.857	14.767	-0.005	
240	-70.035	14.702	0.095	
239	-73.785	13.822	0.125	
238	-77.410	13.978	0.069	
237	-80.935	14.123	0.028	
236	-84.522	14.835	-0.049	
235	-88.839	13.733	-0.127	
234	-92.760	13.934	-0.181	
233	-96.081	14.028	-0.314	
1	-96.880	16.210	-0.467	1627.08
2	-97.990	16.120	-0.467	1627.10
3	-99.100	16.040	-0.467	1627.12
4	-100.760	15.910	-0.547	1627.15
5	-102.420	15.780	-0.547	1627.18
6	-105.200	15.570	-0.617	1627.23
7	-107.410	15.390	-0.697	1627.27
8	-110.740	15.140	-0.847	1627.33
9	-113.510	14.920	-0.847	1627.38
10	-116.830	14.670	-0.917	1627.44
11	-120.710	14.370	-1.067	1627.51
12	-124.030	14.110	-1.147	1627.57
13	-127.910	13.810	-1.147	1627.64
14	-130.680	13.600	-1.217	1627.69
15	-135.120	13.250	-1.297	1627.77
16	-140.100	12.870	-1.297	1627.86
17	-143.430	12.610	-1.297	1627.92
18	-145.640	12.440	-1.297	1627.96

117	-99.540	28.700	-0.339	1645.67
116	-103.190	28.550	-0.569	1645.59
115	-105.920	28.430	-0.639	1645.53
114	-107.290	28.370	-0.719	1645.50
113	-108.400	28.380	-0.789	1645.48
112	-108.950	28.380	-0.789	1645.47
111	-110.060	28.390	-0.869	1645.45
110	-112.280	28.400	-1.019	1645.41
109	-115.600	28.430	-1.169	1645.35
108	-118.930	28.450	-1.239	1645.29
107	-124.470	28.480	-1.469	1645.19
106	-129.450	28.510	-1.689	1645.10
105	-133.330	28.530	-1.769	1645.03
104	-136.100	28.490	-1.839	1644.98
103	-141.050	28.250	-1.989	1644.89
102	-148.200	27.900	-2.139	1644.76
101	-152.050	27.710	-2.219	1644.69
100	-157.000	27.470	-2.289	1644.60
99	-161.400	27.260	-2.439	1644.52
98	-166.950	27.330	-2.589	1644.42
97	-169.730	27.410	-2.589	1644.37
96	-172.520	27.490	-2.589	1644.32
95	-176.410	27.610	-2.369	1644.25
94	-178.640	27.670	-2.289	1644.21
93	-181.980	27.770	-2.069	1644.15
92	-185.870	27.880	-1.839	1644.08
91	-189.770	28.000	-1.689	1644.01
90	-192.020	28.070	-1.619	1643.97
89	-194.850	28.170	-1.539	1643.92
88	-198.240	28.300	-1.539	1643.86
87	-202.200	28.440	-1.539	1643.79
86	-206.720	28.600	-1.619	1643.71
85	-212.380	28.800	-1.769	1643.61
84	-218.290	28.790	-1.839	1643.50
83	-223.480	28.640	-1.989	1643.40
82	-228.150	28.500	-2.069	1643.31
81	-234.380	28.320	-2.219	1643.19
80	-244.250	28.040	-2.439	1643.00
79	-249.860	28.020	-2.589	1642.90
78	-256.040	28.000	-2.669	1642.79
77	-263.340	27.970	-2.819	1642.66
76	-272.320	27.940	-2.969	1642.50
75	-282.740	27.630	-3.119	1642.31
74	-290.420	27.410	-3.189	1642.17
73	-298.640	27.170	-3.339	1642.02
72	-307.460	27.220	-3.419	1641.86
71	-319.590	27.350	-3.569	1641.64
70	-327.860	27.440	-3.569	1641.49
69	-334.360	27.580	-3.719	1641.37
68	-340.870	27.710	-3.789	1641.25
67	-346.830	27.830	-3.939	1641.14
66	-353.330	27.960	-4.019	1641.02
65	-353.870	27.970	-4.019	1641.01
64	-354.980	28.000	-4.169	1640.99
63	-355.550	28.030	-4.089	1640.98
62	-356.120	28.050	-4.089	1640.97
61	-358.390	28.130	-4.089	1640.93
60	-364.640	28.370	-4.239	1640.82
59	-369.750	28.560	-4.319	1640.73
58	-373.730	28.710	-4.469	1640.66
57	-376.570	28.820	-4.539	1640.61
56	-381.110	28.990	-4.539	1640.53
55	-386.680	28.980	-4.619	1640.43
54	-391.650	28.890	-4.769	1640.34
53	-397.180	28.790	-4.839	1640.24
52	-400.500	28.720	-4.919	1640.18

85	-470.730	9.210	-6.167	1633.42
86	-473.730	9.590	-6.247	1633.47
87	-474.920	9.740	-5.947	1633.49
88	-477.340	9.900	-6.097	1633.53
89	-480.980	10.090	-6.167	1633.59
90	-481.590	10.120	-6.167	1633.60
91	-483.410	10.220	-6.097	1633.63
92	-485.230	10.310	-6.097	1633.66
93	-491.300	10.620	-6.247	1633.76
94	-494.330	10.780	-6.317	1633.81
95	-497.970	10.960	-6.397	1633.87
96	-501.610	11.150	-6.397	1633.93
97	-505.250	11.340	-6.317	1633.99
98	-506.470	11.340	-6.247	1634.01
99	-507.080	11.320	-6.247	1634.02
100	-510.130	11.180	-6.397	1634.07
101	-511.350	11.130	-6.317	1634.09
102	-519.890	10.760	-6.467	1634.23
103	-521.720	10.680	-6.397	1634.26
104	-525.380	10.520	-6.547	1634.32
105	-529.040	10.360	-6.467	1634.38
106	-532.700	10.200	-6.467	1634.44
107	-535.140	10.100	-6.317	1634.48

GILLSON: SL2 (MERGED ON- & OFFSHORE PROFILES)			
11 February 1990 1110 to 1127 (CST) (ONSHORE)			
10 February 1990 1637 to 1647 (CST) (OFFSHORE)			
Average offset of 3 points = -0.192261			
PT. #	X (m)	Y (m)	TIME COMMENTS
194	12.399	30.019	2.747
195	9.213	29.797	2.533
196	5.776	30.064	2.619
197	2.583	29.926	2.719
198	-0.230	30.141	2.839
199	-2.949	30.141	2.949
200	-6.239	29.921	2.949
201	-9.269	29.980	2.891
202	-11.995	30.047	2.703
203	-15.503	30.084	2.474
204	-18.721	29.956	2.200
205	-21.784	29.946	2.023
206	-25.033	29.769	1.879
207	-27.917	29.617	1.775
208	-31.596	29.861	1.562
209	-35.475	29.970	1.436
210	-39.496	29.446	1.164
211	-42.864	29.913	0.893
212	-47.086	29.306	0.713
213	-49.999	30.021	0.411
214	-51.863	29.937	0.280
215	-53.140	29.327	0.034
216	-55.385	29.342	-0.045
217	-57.860	29.183	-0.037
218	-61.064	29.340	-0.004
219	-62.104	29.930	0.174
220	-64.737	29.257	0.206
221	-67.892	29.267	0.194
222	-71.847	29.276	0.127
223	-76.239	29.685	0.069
224	-79.873	28.872	0.033
225	-85.699	28.747	-0.057
226	-89.080	28.725	-0.086
227	-92.670	28.846	-0.168
120	-95.890	28.850	-0.269
119	-96.340	28.830	-0.269
118	-97.710	28.780	-0.339

1645.75
1645.74
1645.71

PT. #	X (m)	Y (m)	Z (m)	TIME	COMMENTS
193	17.107	44.789	2.450		
192	12.999	45.042	2.430		
191	10.079	45.148	2.450		
190	6.361	45.010	2.549		
189	3.004	44.977	2.751		
188	-0.430	44.836	2.955		
187	-4.386	44.778	3.094		
186	-7.299	44.803	3.132		
185	-10.631	44.697	3.045		snow fence

GILLSON: SL3 (MERGED ON- & OFFSHORE PROFILES)
 11 February 1990 1052 to 1108 (CST) (ONSHORE)
 10 February 1990 1412 to 1421 (CST) (OFFSHORE)
 Average offset of 6 points = 0.225237

184	-12.931	44.822	2.918		
183	-17.087	44.550	2.479		
182	-20.813	44.776	2.184		
181	-23.798	45.043	1.908		
180	-27.885	44.826	1.694		
179	-31.527	44.688	1.535		
178	-34.333	44.748	1.493		
177	-36.548	44.959	1.388		
176	-40.015	44.515	1.180		
175	-43.148	44.350	0.995		
174	-46.653	44.666	0.795		
173	-48.153	44.867	0.492		
171	-50.950	44.797	0.126		
172	-51.032	44.321	0.256		
170	-53.734	44.234	-0.045		
169	-56.262	44.783	-0.119		
168	-60.188	44.713	-0.137		
167	-64.231	44.690	-0.068		
166	-68.395	44.132	0.002		
165	-71.906	44.746	-0.029		
164	-76.409	43.742	-0.032		
163	-80.256	43.719	-0.058		
162	-83.956	43.619	-0.084		
161	-87.808	43.777	-0.172		
1	-90.900	43.800	-0.222		1413.38
2	-92.570	43.740	-0.222		1413.40
3	-95.090	43.660	-0.302		1413.43
4	-96.770	43.600	-0.302		1413.45
5	-99.290	43.520	-0.302		1413.48
6	-100.130	43.490	-0.302		1413.49
7	-100.970	43.470	-0.302		1413.50
8	-101.810	43.440	-0.372		1413.51
9	-103.480	43.380	-0.452		1413.53
10	-106.000	43.300	-0.522		1413.56
11	-111.040	43.140	-0.672		1413.62
12	-115.230	43.000	-0.752		1413.67
13	-121.950	42.780	-0.972		1413.75
14	-126.140	42.640	-1.122		1413.80
15	-129.500	42.530	-1.202		1413.84
16	-130.340	42.510	-1.272		1413.85
17	-133.700	42.400	-1.422		1413.89
18	-137.890	42.260	-1.652		1413.94
19	-141.250	42.150	-1.872		1413.98
20	-144.670	42.050	-2.102		1414.02
21	-146.770	41.980	-2.252		1414.05
22	-150.610	41.870	-2.322		1414.10
23	-153.680	41.770	-2.322		1414.14
24	-158.290	41.640	-2.402		1414.20
25	-162.130	41.520	-2.402		1414.25
26	-165.200	41.430	-2.472		1414.29
27	-171.350	41.250	-2.322		1414.37
28	-175.190	41.130	-2.022		1414.42
29	-178.260	41.040	-1.802		1414.46
30	-180.560	40.970	-1.652		1414.49
31	-185.860	41.000	-1.422		1414.56
32	-188.870	41.040	-1.352		1414.60
33	-191.140	41.060	-1.272		1414.63
34	-212.260	41.300	-1.422		1414.91
35	-216.780	41.350	-1.572		1414.97
36	-224.220	40.430	-1.802		1415.07
37	-230.140	39.340	-1.872		1415.15
38	-235.320	38.390	-1.952		1415.22
39	-240.490	37.450	-2.102		1415.29
40	-247.890	36.090	-2.252		1415.39
41	-254.550	34.870	-2.322		1415.48
42	-258.370	34.830	-2.472		1415.53

109	-531.400	42.660	-6.972	1419.20
110	-532.110	42.700	-6.972	1419.21
111	-534.960	42.830	-7.052	1419.25
112	-536.380	42.900	-6.972	1419.27
113	-539.940	43.080	-7.052	1419.32
114	-543.490	43.250	-7.052	1419.37
115	-545.630	43.350	-7.052	1419.40
116	-548.470	43.490	-7.052	1419.44
117	-549.180	43.530	-6.972	1419.45
118	-549.900	43.560	-6.972	1419.46

GILLSON: SL4 (MERGED ON- & OFFSHORE PROFILES)
 11 February 1990 1027 to 1048 (CST) (ONSHORE)
 10 February 1990 1400 to 1410 (CST) (OFFSHORE)
 Average offset 3 points = -0.278635

TIME COMMENTS

PT. #	X (m)	Y (m)	Z (m)	
114	37.640	60.353	3.364	
115	34.529	60.269	3.029	
116	32.066	60.185	2.792	
117	28.410	60.465	2.690	
118	25.640	60.510	2.631	
119	22.009	60.282	2.529	
120	18.376	60.126	2.452	
121	15.548	59.819	2.411	
122	12.501	59.917	2.396	
123	8.373	60.169	2.441	
124	4.789	60.028	2.611	
125	1.943	59.955	2.833	
126	-2.009	60.051	3.079	
127	-5.180	59.694	3.226	
128	-8.800	60.086	3.258	
129	-11.816	60.024	3.173	
130	-15.531	59.733	2.723	
131	-19.297	59.638	2.367	
132	-22.971	59.850	2.080	
133	-26.826	59.975	1.829	
134	-31.133	60.126	1.696	
135	-35.771	60.128	1.552	
136	-39.876	60.015	1.325	
137	-43.614	60.216	1.042	
138	-46.504	59.694	0.880	
139	-48.809	59.328	0.425	
140	-51.228	59.472	0.285	
141	-52.324	59.431	0.027	
142	-54.477	59.407	-0.110	
143	-58.158	60.118	-0.127	
144	-62.825	59.284	-0.139	
145	-67.462	59.165	-0.113	
146	-72.193	60.065	-0.121	
147	-77.778	59.417	-0.092	
148	-83.229	59.301	-0.116	
149	-88.208	59.206	-0.182	
150	-92.898	59.889	-0.228	
151	-98.862	58.832	-0.224	
0	-102.400	59.200	-0.286	1409.12
0	-106.900	59.000	-0.286	1409.05
0	-110.000	58.850	-0.526	1409.00
150	-111.560	58.650	-0.956	1408.98
149	-115.410	58.380	-1.176	1408.92
148	-117.990	58.200	-1.256	1408.88
147	-122.550	57.980	-1.476	1408.81
146	-127.220	57.950	-1.556	1408.74
145	-151.940	57.790	-2.156	1408.37
144	-155.280	57.770	-2.226	1408.32
143	-160.620	57.740	-2.376	1408.24
142	-166.630	57.700	-2.526	1408.15

snow fence

43	-262.270	35.220	-2.552	1415.58
44	-267.730	35.770	-2.622	1415.65
45	-277.100	36.710	-2.772	1415.77
46	-283.340	37.330	-2.852	1415.85
47	-288.810	37.880	-2.922	1415.92
48	-295.050	38.510	-3.002	1416.00
49	-304.370	38.810	-3.072	1416.12
50	-310.580	39.020	-3.152	1416.20
51	-316.790	39.230	-3.222	1416.28
52	-321.450	39.380	-3.302	1416.34
53	-326.890	39.560	-3.372	1416.41
54	-334.620	39.780	-3.452	1416.51
55	-340.580	39.680	-3.522	1416.59
56	-345.800	39.590	-3.672	1416.66
57	-349.520	39.530	-3.752	1416.71
58	-356.970	39.400	-3.752	1416.81
59	-362.190	39.310	-3.822	1416.88
60	-368.150	39.200	-3.902	1416.96
61	-372.590	39.100	-3.972	1417.02
62	-376.970	38.930	-4.052	1417.08
63	-383.540	38.690	-4.202	1417.17
64	-388.650	38.500	-4.352	1417.24
65	-391.570	38.390	-4.422	1417.28
66	-395.220	38.260	-4.502	1417.33
67	-406.170	37.850	-4.652	1417.48
68	-409.820	37.790	-4.722	1417.53
69	-414.180	37.770	-4.802	1417.59
70	-418.540	37.750	-4.872	1417.65
71	-421.450	37.740	-4.952	1417.69
72	-424.360	37.730	-5.022	1417.73
73	-428.720	37.720	-5.172	1417.79
74	-429.450	37.710	-5.172	1417.80
75	-431.630	37.700	-5.322	1417.83
76	-432.350	37.700	-5.322	1417.84
77	-436.720	37.690	-5.552	1417.90
78	-440.350	37.670	-5.772	1417.95
79	-442.530	37.660	-5.922	1417.98
80	-445.460	37.710	-6.152	1418.02
81	-448.420	37.820	-6.372	1418.06
82	-449.900	37.870	-6.302	1418.08
83	-451.380	37.930	-6.372	1418.10
84	-454.330	38.030	-6.602	1418.14
85	-458.030	38.170	-6.452	1418.19
86	-458.770	38.200	-6.452	1418.20
87	-460.250	38.250	-6.522	1418.22
88	-461.730	38.300	-6.522	1418.24
89	-462.470	38.330	-6.452	1418.25
90	-466.900	38.490	-6.602	1418.31
91	-469.860	38.600	-6.522	1418.35
92	-470.600	38.620	-6.522	1418.36
93	-474.300	38.760	-6.602	1418.41
94	-478.730	38.920	-6.522	1418.47
95	-480.210	38.970	-6.522	1418.49
96	-484.570	39.300	-6.752	1418.55
97	-488.190	39.590	-6.822	1418.60
98	-499.790	40.540	-6.752	1418.76
99	-503.410	40.840	-6.822	1418.81
100	-506.310	41.080	-6.752	1418.85
101	-508.480	41.260	-6.672	1418.88
102	-512.100	41.550	-6.892	1418.93
103	-515.730	41.850	-6.972	1418.98
104	-517.890	42.000	-6.892	1419.01
105	-521.440	42.180	-6.972	1419.06
106	-524.290	42.320	-6.892	1419.10
107	-526.420	42.420	-7.052	1419.13
108	-529.980	42.590	-6.972	1419.18

Filename: 9002GIL.TXT

141	-171.310	57.670	-2.606	1408.08
140	-175.320	57.640	-2.606	1408.02
139	-179.490	57.600	-2.456	1407.96
138	-183.750	57.540	-2.306	1407.90
137	-188.010	57.490	-2.076	1407.84
136	-192.980	57.430	-1.926	1407.77
135	-195.820	57.390	-1.856	1407.73
134	-200.080	57.340	-1.776	1407.67
133	-202.920	57.300	-1.706	1407.63
132	-210.730	57.200	-1.706	1407.52
131	-214.820	57.220	-1.776	1407.46
130	-220.160	57.280	-1.926	1407.38
129	-224.830	57.340	-2.076	1407.31
128	-232.170	57.440	-2.226	1407.20
127	-239.510	57.530	-2.376	1407.09
126	-243.510	57.580	-2.526	1407.03
125	-248.220	57.510	-2.676	1406.96
124	-252.290	57.380	-2.826	1406.90
123	-261.090	57.080	-3.056	1406.77
122	-266.510	56.900	-3.126	1406.69
121	-271.260	56.740	-3.126	1406.62
120	-275.320	56.600	-3.206	1406.56
119	-279.390	56.470	-3.206	1406.50
118	-284.780	56.380	-3.276	1406.42
117	-290.840	56.290	-3.426	1406.33
116	-295.560	56.220	-3.426	1406.26
115	-300.950	56.130	-3.506	1406.18
114	-309.030	56.010	-3.576	1406.06
113	-313.770	55.930	-3.576	1405.99
112	-319.370	55.870	-3.656	1405.91
111	-323.560	55.820	-3.726	1405.85
110	-327.060	55.770	-3.726	1405.80
109	-333.350	55.700	-3.806	1405.71
108	-338.240	55.640	-3.876	1405.64
107	-342.430	55.590	-3.956	1405.58
106	-347.330	55.530	-3.956	1405.51
105	-351.880	56.100	-4.026	1405.44
104	-358.300	57.080	-4.106	1405.34
103	-363.440	57.860	-4.256	1405.26
102	-369.870	58.830	-4.326	1405.16
101	-374.370	59.510	-4.406	1405.09
100	-378.220	60.100	-4.406	1405.03
99	-382.170	60.480	-4.476	1404.97
98	-386.220	60.660	-4.556	1404.91
97	-386.900	60.690	-4.556	1404.90
96	-388.250	60.750	-4.626	1404.88
95	-388.920	60.780	-4.626	1404.87
94	-395.000	61.050	-4.706	1404.78
93	-398.370	61.200	-4.776	1404.73
92	-400.390	61.290	-4.776	1404.70
91	-405.120	61.500	-4.926	1404.63
90	-413.220	61.860	-5.076	1404.51
89	-415.190	62.120	-5.076	1404.48
88	-419.720	62.920	-5.156	1404.41
87	-420.370	63.030	-5.156	1404.40
86	-424.260	63.720	-5.226	1404.34
85	-426.850	64.170	-5.306	1404.30
84	-442.410	66.910	-5.606	1404.06
83	-446.960	67.530	-5.676	1403.99
82	-450.920	67.120	-5.896	1403.93
81	-454.220	66.780	-5.976	1403.88
80	-458.850	66.310	-6.126	1403.81
79	-460.830	66.110	-6.276	1403.78
78	-462.150	65.970	-6.346	1403.76
77	-464.790	65.700	-6.426	1403.72
76	-467.430	65.430	-6.806	1403.68

Filename: 9002GIL.TXT

75	-468.090	65.360	-6.806	1403.67
74	-469.420	65.230	-6.806	1403.65
73	-470.080	65.160	-6.956	1403.64
72	-476.680	64.480	-7.176	1403.54
71	-478.000	64.340	-7.106	1403.52
70	-479.980	64.220	-6.956	1403.49
69	-481.280	64.240	-7.106	1403.47
68	-481.930	64.250	-7.106	1403.46
67	-483.230	64.270	-6.876	1403.44
66	-485.190	64.300	-6.876	1403.41
65	-487.150	64.330	-6.806	1403.38
64	-489.750	64.370	-6.876	1403.34
63	-492.360	64.410	-7.026	1403.30
62	-494.970	64.450	-7.026	1403.26
61	-496.270	64.470	-7.176	1403.24
60	-501.480	64.550	-7.176	1403.16
59	-505.400	64.610	-7.176	1403.10
58	-508.000	64.640	-7.176	1403.06
57	-509.310	64.660	-7.176	1403.04
56	-510.610	64.680	-7.176	1403.02
55	-511.910	64.700	-7.256	1403.00
54	-513.280	64.700	-7.176	1402.98
53	-515.320	64.700	-7.026	1402.95
52	-516.690	64.700	-7.176	1402.93
51	-519.410	64.700	-7.256	1402.89
50	-521.460	64.700	-7.176	1402.86
49	-524.190	64.700	-7.326	1402.82
48	-526.920	64.700	-7.256	1402.78
47	-529.640	64.700	-7.106	1402.74
46	-531.690	64.700	-7.326	1402.71
45	-535.780	64.700	-7.176	1402.65
44	-536.460	64.700	-7.176	1402.64
43	-539.190	64.700	-7.176	1402.60
42	-542.600	64.700	-7.176	1402.55
41	-545.330	64.700	-7.256	1402.51
40	-547.400	64.650	-7.106	1402.48
39	-548.790	64.600	-7.256	1402.46
38	-552.270	64.480	-7.106	1402.41
37	-557.140	64.300	-7.176	1402.34
36	-559.920	64.210	-7.396	1402.30
35	-562.000	64.130	-7.326	1402.27
34	-565.480	64.010	-7.106	1402.22
33	-567.570	63.930	-7.256	1402.19
32	-570.350	63.830	-7.176	1402.15
31	-572.430	63.760	-7.176	1402.12
30	-578.690	63.540	-7.176	1402.03
29	-580.780	63.460	-7.176	1402.00
28	-585.550	63.520	-7.326	1401.93
27	-589.640	63.570	-7.106	1401.87
26	-593.050	63.610	-7.026	1401.82
25	-595.090	63.630	-7.106	1401.79
24	-599.180	63.680	-7.396	1401.73
23	-601.230	63.710	-7.326	1401.70
22	-603.270	63.730	-7.176	1401.67
21	-610.770	63.820	-7.176	1401.56
20	-611.450	63.830	-7.476	1401.55
19	-614.180	63.860	-7.396	1401.51
18	-615.530	63.820	-7.396	1401.49
17	-617.550	63.670	-7.556	1401.46
16	-619.560	63.520	-7.476	1401.43
15	-620.230	63.470	-7.556	1401.42
14	-622.250	63.320	-7.396	1401.39
13	-623.590	63.220	-7.396	1401.37
12	-625.610	63.070	-7.326	1401.34
11	-626.950	62.970	-7.476	1401.32
10	-629.640	62.770	-7.626	1401.28

Pt. #	X (m)	Y (m)	Z (m)	TIME	COMMENTS
9	-630.980	62.670	-7.556	1401.26	
8	-632.320	62.570	-7.626	1401.24	
7	-635.010	62.370	-7.476	1401.20	
6	-638.370	62.120	-7.326	1401.15	
5	-639.710	62.020	-7.476	1401.13	
4	-641.730	61.870	-7.326	1401.10	
3	-643.740	61.720	-7.256	1401.07	
2	-645.080	61.620	-7.326	1401.05	
1	-647.770	61.420	-7.326	1401.01	
GILLSON: SL5 (MERGED ON- & OFFSHORE PROFILES)					
11 February 1990 1005 to 1025 (CST) (ONSHORE)					
10 February 1990 1350 to 1359 (CST) (OFFSHORE)					
Average offset for 9 points = 0.313589					
Pt. #	X (m)	Y (m)	Z (m)	TIME	COMMENTS
113	33.724	76.012	2.847		
112	31.890	75.737	2.708		
111	27.452	75.144	2.434		
110	24.624	75.231	2.359		
109	22.040	75.312	2.327		
108	18.876	75.436	2.322		
107	16.222	75.435	2.271		
106	13.457	75.278	2.267		
105	11.301	74.953	2.270		
104	7.256	75.195	2.336		
103	4.054	74.971	2.519		
102	0.638	74.953	2.823		
101	-1.596	74.879	3.036		
100	-5.250	74.980	3.188		
99	-7.545	75.045	3.266		
98	-9.824	75.064	3.284		
97	-14.705	75.071	2.845		
96	-18.223	75.143	2.445		
95	-22.769	74.776	2.087		
94	-26.952	74.762	1.812		
93	-30.653	74.794	1.634		
92	-34.472	74.899	1.538		
91	-38.828	74.837	1.351		
90	-43.121	74.627	1.106		
89	-47.879	74.040	0.869		
88	-49.251	74.318	0.523		
87	-52.559	74.011	0.258		
86	-54.184	74.034	-0.023		
85	-55.618	73.888	-0.081		
84	-59.439	73.725	-0.109		
83	-63.427	73.774	-0.106		
82	-67.972	73.679	-0.123		
81	-72.065	73.854	-0.140		
80	-76.109	73.299	-0.125		
1	-78.920	71.060	-0.433	1351.72	
2	-82.300	71.110	-0.433	1351.76	
3	-84.830	71.150	-0.363	1351.79	
4	-87.360	71.190	-0.283	1351.82	
5	-92.420	71.270	-0.283	1351.88	
6	-96.640	71.330	-0.283	1351.93	
7	-99.170	71.370	-0.213	1351.96	
8	-101.700	71.410	-0.133	1351.99	
9	-102.550	71.420	-0.063	1352.00	
10	-103.390	71.440	-0.133	1352.01	
11	-106.770	71.490	-0.213	1352.05	
12	-107.610	71.500	-0.213	1352.06	
13	-110.140	71.540	-0.283	1352.09	
14	-113.520	71.590	-0.433	1352.13	
15	-116.050	71.630	-0.583	1352.16	
16	-117.740	71.660	-0.663	1352.18	
17	-124.490	71.760	-0.963	1352.26	
18	-127.020	71.800	-1.033	1352.29	
19	-131.240	71.870	-1.263	1352.34	
20	-134.610	71.920	-1.413	1352.38	
21	-137.160	71.960	-1.563	1352.41	
22	-139.680	72.000	-1.713	1352.44	
23	-142.210	72.040	-1.783	1352.47	
24	-144.740	72.080	-1.863	1352.50	
25	-145.580	72.090	-2.013	1352.51	
26	-147.270	72.120	-1.933	1352.53	
27	-149.800	72.160	-1.933	1352.56	
28	-151.480	72.130	-1.933	1352.58	
29	-153.980	72.040	-1.933	1352.61	
30	-156.480	71.960	-2.013	1352.64	
31	-158.990	71.870	-2.083	1352.67	
32	-162.330	71.760	-2.163	1352.71	
33	-165.670	71.640	-2.163	1352.75	
34	-167.330	71.590	-2.163	1352.77	
35	-170.670	71.470	-2.013	1352.81	
36	-173.180	71.390	-1.933	1352.84	
37	-176.520	71.270	-1.713	1352.88	
38	-179.020	71.190	-1.483	1352.91	
39	-180.690	71.130	-1.333	1352.93	
40	-182.360	71.070	-1.333	1352.95	
41	-184.860	70.990	-1.263	1352.98	
42	-188.200	70.870	-1.183	1353.02	
43	-192.370	70.730	-1.113	1353.07	
44	-194.880	70.650	-1.113	1353.10	
45	-198.220	70.530	-1.113	1353.14	
46	-199.890	70.470	-1.113	1353.16	
47	-204.070	70.290	-1.183	1353.21	
48	-207.460	70.030	-1.263	1353.25	
49	-210.000	69.830	-1.333	1353.28	
50	-215.080	69.420	-1.483	1353.34	
51	-219.310	69.090	-1.563	1353.39	
52	-222.700	68.820	-1.633	1353.43	
53	-226.080	68.550	-1.713	1353.47	
54	-231.080	68.490	-1.863	1353.53	
55	-247.470	69.400	-2.233	1353.73	
56	-250.750	69.580	-2.313	1353.77	
57	-254.840	69.800	-2.463	1353.82	
58	-257.300	69.940	-2.533	1353.85	
59	-258.120	69.990	-2.533	1353.86	
60	-259.760	70.080	-2.533	1353.88	
61	-261.400	70.170	-2.613	1353.90	
62	-266.310	70.440	-2.683	1353.96	
63	-271.200	70.770	-2.683	1354.02	
64	-275.230	71.140	-2.763	1354.07	
65	-278.460	71.440	-2.763	1354.11	
66	-284.100	71.950	-2.833	1354.18	
67	-289.740	72.470	-2.913	1354.25	
68	-292.970	72.770	-2.983	1354.29	
69	-293.770	72.840	-2.983	1354.30	
70	-295.390	72.990	-2.983	1354.32	
71	-299.420	73.360	-3.063	1354.37	
72	-304.260	73.810	-3.133	1354.43	
73	-308.290	74.180	-3.213	1354.48	
74	-314.520	73.970	-3.283	1354.56	
75	-321.450	73.450	-3.363	1354.65	
76	-329.150	72.860	-3.513	1354.75	
77	-331.460	72.690	-3.513	1354.78	
78	-333.770	72.510	-3.583	1354.81	
79	-334.540	72.450	-3.583	1354.82	
80	-335.310	72.390	-3.583	1354.83	
81	-336.080	72.330	-3.583	1354.84	
82	-342.230	71.870	-3.733	1354.92	
83	-352.220	70.990	-3.813	1355.05	

PT. #	X (m)	Y (m)	Z (m)	TIME	COMMENTS
35	31.885	91.076	2.500		
36	26.838	90.757	2.283		
37	20.254	90.756	2.230		
38	15.266	90.806	2.217		
39	7.732	91.053	2.270		
40	1.667	90.908	2.592		
41	-0.619	90.869	2.890		
42	-6.415	90.670	3.279		
43	-9.118	90.881	3.317		
44	-12.554	91.022	3.280		
45	-15.320	91.059	2.780		snow fence

84	-358.330	70.340	-3.883	1355.13	
85	-365.970	69.530	-3.963	1355.23	
86	-373.610	68.720	-4.113	1355.33	
87	-382.780	67.750	-4.263	1355.45	
88	-389.000	67.290	-4.413	1355.53	
89	-395.370	67.140	-4.483	1355.61	
90	-401.740	66.980	-4.563	1355.69	
91	-408.120	66.830	-4.713	1355.77	
92	-416.080	66.640	-4.863	1355.87	
93	-422.460	66.490	-5.013	1355.95	
94	-430.290	66.160	-5.163	1356.05	
95	-434.910	65.880	-5.383	1356.11	
96	-440.290	65.540	-5.613	1356.18	
97	-443.370	65.350	-5.833	1356.22	
98	-447.990	65.070	-6.133	1356.28	
99	-451.840	64.830	-6.363	1356.33	
100	-453.380	64.740	-6.513	1356.35	
101	-458.000	64.450	-6.663	1356.41	
102	-459.540	64.360	-6.583	1356.43	
103	-462.620	64.170	-6.663	1356.47	
104	-466.470	63.930	-6.733	1356.52	
105	-470.430	63.810	-6.733	1356.57	
106	-472.920	63.830	-6.663	1356.60	
107	-474.580	63.850	-6.583	1356.62	
108	-480.390	63.910	-6.733	1356.69	
109	-482.050	63.930	-6.663	1356.71	
110	-484.540	63.960	-6.583	1356.74	
111	-490.340	64.020	-6.733	1356.81	
112	-492.000	64.040	-6.733	1356.83	
113	-494.490	64.070	-6.733	1356.86	
114	-500.300	64.130	-6.733	1356.93	
115	-502.790	64.160	-6.583	1356.96	
116	-517.540	64.410	-6.883	1357.15	
117	-523.640	64.530	-7.033	1357.23	
118	-527.450	64.600	-6.803	1357.28	
119	-530.500	64.660	-6.883	1357.32	
120	-536.600	64.780	-6.963	1357.40	
121	-537.360	64.800	-6.883	1357.41	
122	-538.890	64.820	-6.963	1357.43	
123	-544.230	64.930	-7.113	1357.50	
124	-547.380	65.000	-7.033	1357.54	
125	-549.750	65.060	-7.033	1357.57	
126	-552.900	65.130	-6.963	1357.61	
127	-557.630	65.250	-6.883	1357.67	
128	-566.310	65.450	-7.113	1357.78	
129	-567.890	65.490	-6.963	1357.80	
130	-574.200	65.640	-7.113	1357.88	
131	-578.930	65.750	-6.963	1357.94	
132	-582.870	65.840	-7.113	1357.99	

GILLSON: SL6 (MERGED ON- & OFFSHORE PROFILES)

11 February 1990 0940 to 1003 (CST) (ONSHORE)

10 February 1990 1340 to 1349 (CST) (OFFSHORE)

Average offset for 3 points -0.0387700

SLM90-8
SLM90-9
SLM90-10
SLM90-11
SLM90-12
SLM90-13
SLM90-14

51	-564.430	87.300	-7.156	1342.71
50	-569.640	87.580	-7.236	1342.65
49	-574.860	87.860	-7.386	1342.59
48	-582.680	88.290	-7.616	1342.50
47	-584.390	88.480	-7.536	1342.47
46	-588.380	88.940	-7.386	1342.40
45	-591.800	89.340	-7.236	1342.34
44	-592.940	89.470	-7.156	1342.32
43	-595.790	89.800	-7.236	1342.27
42	-598.640	90.130	-7.316	1342.22
41	-599.780	90.260	-7.236	1342.20
40	-602.050	90.530	-7.386	1342.16
39	-603.760	90.720	-7.466	1342.13
38	-606.040	90.990	-7.386	1342.09
37	-609.460	91.380	-7.156	1342.03
36	-610.030	91.450	-7.236	1342.02
35	-611.910	91.670	-7.386	1341.99
34	-617.110	92.280	-7.236	1341.92
33	-621.560	92.800	-7.156	1341.86
32	-625.270	93.240	-7.086	1341.81
31	-628.240	93.590	-7.236	1341.77
30	-632.700	94.110	-7.016	1341.71
29	-634.180	94.280	-7.156	1341.69
28	-636.410	94.550	-7.236	1341.66
27	-641.600	95.160	-6.936	1341.59
26	-643.830	95.420	-7.086	1341.56
25	-647.540	95.850	-7.316	1341.51
24	-649.680	96.180	-7.236	1341.48
23	-650.380	96.310	-7.086	1341.47
22	-651.080	96.430	-7.156	1341.46
21	-653.880	96.910	-7.016	1341.42
20	-657.380	97.520	-6.866	1341.37
19	-660.890	98.130	-6.786	1341.32
18	-670.690	99.840	-7.086	1341.18
17	-674.190	100.440	-6.786	1341.13
16	-676.290	100.810	-6.486	1341.10
15	-677.690	101.050	-6.486	1341.08
14	-679.090	101.300	-6.486	1341.06
13	-682.590	101.900	-6.636	1341.01
12	-684.200	102.970	-6.636	1340.97
11	-684.800	103.600	-6.636	1340.95
10	-685.410	104.230	-6.716	1340.93
9	-686.620	105.490	-6.566	1340.89
8	-687.230	106.120	-6.566	1340.87
7	-688.440	107.380	-6.716	1340.83
6	-689.650	108.650	-6.866	1340.79
5	-690.260	109.280	-6.866	1340.77
4	-690.560	109.590	-6.786	1340.76
3	-691.470	110.540	-6.936	1340.73
2	-692.070	111.170	-6.936	1340.71
1	-692.380	111.480	-6.936	1340.70

117	-307.230	95.110	-3.416	1346.23
116	-314.860	95.480	-3.486	1346.12
115	-320.400	95.740	-3.566	1346.04
114	-324.610	95.920	-3.636	1345.98
113	-325.330	95.940	-3.636	1345.97
112	-326.050	95.960	-3.636	1345.96
111	-326.770	95.980	-3.636	1345.95
110	-330.360	96.090	-3.716	1345.90
109	-333.990	96.200	-3.786	1345.85
108	-338.990	96.340	-3.866	1345.78
107	-341.830	96.380	-3.936	1345.74
106	-345.240	96.250	-3.936	1345.69
105	-349.330	96.090	-4.016	1345.63
104	-353.410	95.930	-4.086	1345.57
103	-358.180	95.750	-4.166	1345.50
102	-359.550	95.700	-4.086	1345.48
101	-361.590	95.620	-4.166	1345.45
100	-364.320	95.510	-4.236	1345.41
99	-366.360	95.440	-4.316	1345.38
98	-368.410	95.360	-4.316	1345.35
97	-370.450	95.280	-4.236	1345.32
96	-371.810	95.230	-4.316	1345.30
95	-373.180	95.170	-4.316	1345.28
94	-377.950	94.990	-4.386	1345.21
93	-379.310	94.940	-4.466	1345.19
92	-380.670	94.880	-4.466	1345.17
91	-383.400	94.780	-4.536	1345.13
90	-386.120	94.670	-4.536	1345.09
89	-388.850	94.570	-4.686	1345.05
88	-390.890	94.490	-4.686	1345.02
87	-391.570	94.460	-4.686	1345.01
86	-392.260	94.440	-4.686	1345.00
85	-393.690	94.300	-4.686	1344.98
84	-395.130	94.170	-4.766	1344.96
83	-396.570	94.040	-4.766	1344.94
82	-400.880	93.640	-4.836	1344.88
81	-437.980	90.590	-5.516	1344.37
80	-441.740	90.390	-5.586	1344.32
79	-447.010	89.090	-5.736	1344.25
78	-450.020	89.930	-5.886	1344.21
77	-455.290	89.630	-6.106	1344.14
76	-459.050	89.430	-6.336	1344.09
75	-464.310	89.130	-6.716	1344.02
74	-468.060	89.020	-6.866	1343.97
73	-471.050	88.990	-6.936	1343.93
72	-472.550	88.970	-6.936	1343.91
71	-476.280	88.930	-6.866	1343.86
70	-481.520	88.870	-7.016	1343.79
69	-486.000	88.820	-7.086	1343.73
68	-492.730	88.740	-7.316	1343.64
67	-494.980	88.710	-7.386	1343.61
66	-503.200	88.610	-7.316	1343.50
65	-506.800	88.350	-7.236	1343.45
64	-508.960	88.190	-7.316	1343.42
63	-511.840	87.970	-7.316	1343.38
62	-516.160	87.650	-7.236	1343.32
61	-523.370	87.110	-7.156	1343.22
60	-528.410	86.740	-7.316	1343.15
59	-533.450	86.360	-7.316	1343.08
58	-536.330	86.150	-7.236	1343.04
57	-537.770	86.040	-7.236	1343.02
56	-538.490	85.990	-7.236	1343.01
55	-540.950	86.030	-7.316	1342.98
54	-546.170	86.310	-7.316	1342.92
53	-552.260	86.640	-7.236	1342.85
52	-561.820	87.160	-7.156	1342.74

PROFILE DATA: POINT BEACH STATE FOREST, WISCONSIN

Latitude/Longitude (UTM): 44°13'04"N/87°30'59"W
(489596N/045946E)

Date: February 13, 1990

February 14, 1990

February 16, 1990

Time: February 13: 1545-1700 CST

February 14: 0900-0930 CST

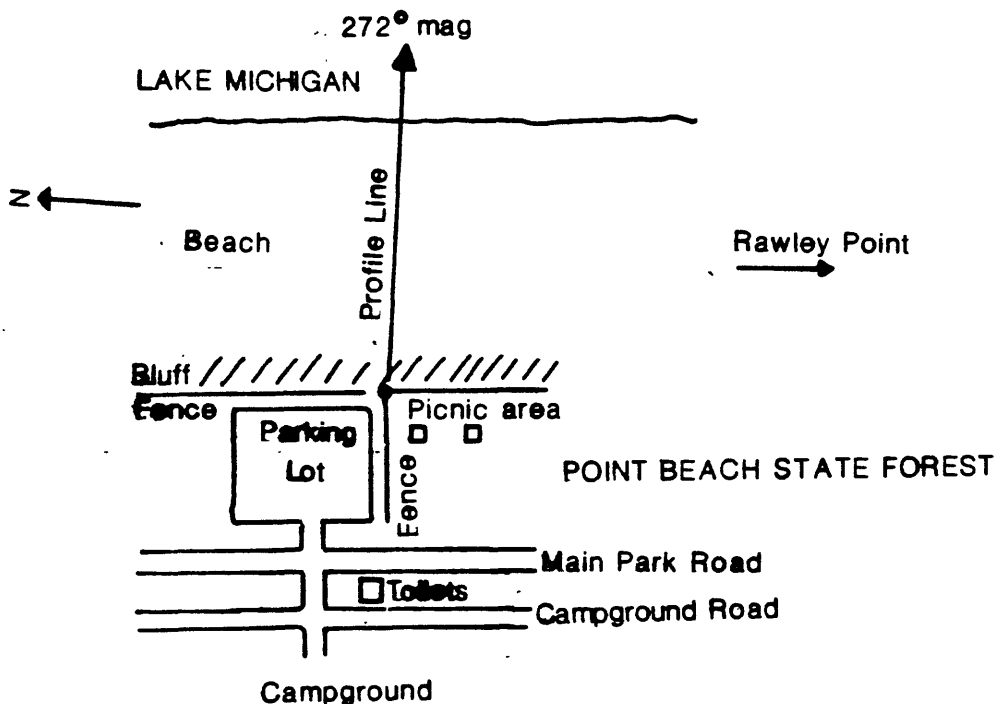
February 16: 1030-1315 CST

Location: See attached sketch - The surveys were run from the picnic area parking lot located across the road from the entrance to the main campground in the State Forest. The Main Line (ML) extended at 272° mag. from the top of the lowest fence railing at the point at which it crosses the most northerly of the fence posts located on the southern side of the opening through the wooden fence which allows access to the beach (back marker). The front marker was temporary in nature and was placed on the beach on a line from the back marker that was perpendicular to the trend of the shoreline.

Vertical Control: The lake level was measured on February 13 to be -5.704 meters below the back reference mark at 1620 CST. This difference was added to the elevation data points to give an elevation relative lake level at that time.

Notes: On February 13, the azimuth angle was incorrectly set. This caused all original horizontal angles on this date to be too large. This mistake was corrected by using a UNIX AWK program to subtract the incorrect azimuth angle.

The code SLM90-# (Southern Lake Michigan, 1990) refers to samples that were collected at this point, and which may be referred to elsewhere in this report



POINT BEACH STATE FOREST, TWO RIVERS, WISCONSIN
Reference Point Elevation = 5.704 m
Surveying Crew: Michael McCormick, Ed Kempema, Peter Barnes
Erk Reimnitz & Eran Hayden

LAKE LEVEL
13 February 1990 1620 (CST)
Bench Mark Elev. = 0.000 m Ref. Point Elev. = 5.704 m
PT.# X (m) Y (m) Z (m) TIME COMMENTS
43 -85.481 0.084 -0.000 1620 Lake level

MAIN LINE
13 February 1990 1550 to 1620 (CST)
Bench Mark Elev. = 0.000 m Ref. Point Elev. = 5.704 m
PT.# X (m) Y (m) Z (m) COMMENTS

104	-31.876	0.311	1.254	
103	-46.331	-0.250	1.171	
102	-63.656	0.233	0.944	
101	-68.164	-0.780	0.983	
100	-70.445	-0.078	0.736	
99	-72.803	-0.799	0.593	
98	-74.462	-0.021	0.361	
95	-75.741	-0.425	0.126	
94	-76.770	0.562	0.103	
93	-77.846	0.618	-0.005	
92	-79.213	0.655	-0.125	
90	-80.753	0.668	-0.252	
89	-82.166	0.451	-0.303	
88	-83.870	0.128	-0.334	
42	-85.626	0.190	-0.679	
38	-87.112	0.302	-0.691	
36	-90.983	-1.701	-0.261	
34	-92.220	0.167	-0.366	
33	-92.784	0.052	-0.266	
32	-92.990	0.089	-0.164	
31	-93.705	0.234	-0.151	
30	-94.407	0.046	-0.072	
29	-95.531	-0.565	-0.006	
28	-96.436	-0.551	0.018	
27	-97.394	-0.575	-0.006	
26	-98.605	-0.285	-0.018	
25	-99.622	-0.260	-0.057	
24	-100.862	-0.135	-0.052	
23	-101.519	-0.171	-0.148	
22	-102.694	-0.077	-0.216	
21	-103.678	-0.018	-0.256	
20	-104.839	-1.244	-0.325	
19	-106.352	-1.285	-0.369	
18	-107.461	-1.124	-0.379	
17	-108.543	0.024	-0.452	
16	-110.212	-0.168	-0.437	
15	-111.783	0.069	-0.478	
14	-113.891	-0.181	-0.546	
13	-116.407	-0.058	-0.539	
12	-119.035	-1.392	-0.539	
11	-121.169	-1.370	-0.494	
10	-123.566	-0.190	-0.454	
9	-126.092	0.276	-0.421	
8	-128.509	0.288	-0.365	
7	-131.011	0.042	-0.395	
6	-133.854	-1.670	-0.376	
5	-137.495	-1.558	-0.651	
4	-140.107	-1.366	-0.785	
3	-141.611	0.028	-0.907	

lake bottom
lake bottom
lake bottom
lake bottom
lake bottom
lake bottom
lake bottom
bot. hole SLW90-25
bot. hole SLW90-26
bot. hole SLW90-27

ICE FOOT EDGE
13 February 1990 1622 to 1640 (CST)
Bench Mark Elev. = 0.000 m Ref. Point Elev. = 5.704 m
PT.# X (m) Y (m) Z (m) COMMENTS

54	-91.988	6.285	-0.278	
44	-92.153	-2.515	-0.653	
50	-92.192	-14.650	-0.747	
52	-92.469	2.068	-0.276	
58	-92.593	15.605	-0.272	
56	-92.593	10.700	-0.238	
46	-92.903	-4.970	-0.632	
48	-94.428	-9.387	-0.526	
45	-95.783	-3.703	-0.331	
51	-95.783	-16.945	-0.499	
55	-96.483	8.508	-0.015	
53	-96.911	2.527	-0.025	
47	-97.347	-7.194	-0.398	
49	-97.442	-13.099	-0.397	
57	-98.065	12.026	-0.033	
59	-99.024	19.419	-0.133	

ICE FOOT RIDGE TOP
13 February 1990 1640 to 1650 (CST)
Bench Mark Elev. = 0.000 m Ref. Point Elev. = 5.704 m
PT.# X (m) Y (m) Z (m) COMMENTS

61	-88.865	-28.182	0.638	
63	-89.496	-22.655	0.696	
62	-89.554	-24.954	0.685	
64	-89.791	-20.733	0.718	
65	-89.793	-19.261	0.631	
66	-89.888	-16.032	0.845	
67	-90.538	-13.811	0.832	
81	-90.747	14.559	0.682	
68	-90.819	-12.440	0.881	
80	-90.853	12.378	0.675	
78	-91.034	8.841	0.820	
82	-91.156	16.928	0.795	
86	-91.277	26.244	0.606	
74	-91.306	-0.314	0.765	
79	-91.325	10.439	0.862	
73	-91.437	-3.138	0.975	
77	-91.582	6.641	0.935	
71	-91.799	-8.385	1.011	
72	-91.810	-6.393	0.807	
75	-91.840	1.568	0.969	
69	-91.845	-12.933	0.997	
85	-91.868	22.849	0.828	
76	-91.896	4.146	1.061	
83	-92.158	19.711	0.925	
84	-92.754	21.793	1.073	
70	-93.177	-9.722	0.869	

MAIN LINE
14 February 1990 0900 to 0930 (CST)
Bench Mark Elev. = 0.000 m Ref. Point Elev. = 5.704 m
PT.# X (m) Y (m) Z (m) COMMENTS

4	-2.143	0.104	5.356	
5	-9.079	0.452	3.799	
6	-16.437	-0.070	2.555	
7	-23.922	-0.420	1.715	
8	-30.224	0.058	1.437	
9	-37.283	0.048	1.231	
10	-45.413	0.182	1.181	
11	-51.975	0.181	1.128	
12	-59.504	0.195	1.008	
13	-65.066	0.096	0.963	snow fence

CORE SAMPLE TOPS			
PT. #	X (m)	Y (m)	Z (m)
16 February 1990			
3	-70.424	0.254	0.957
4	-72.040	0.347	1.084
5	-73.125	-0.047	1.103
2	-74.009	-11.028	1.076
8	-74.027	-11.666	1.195
9	-74.162	6.102	1.287
7	-74.263	-6.687	1.288
6	-74.315	0.174	1.256
11	-74.482	13.058	1.282

COMMENTS
SLM90-50
SLM90-51
SLM90-52
SLM90-49
SLM90-55
SLM90-56
SLM90-54
SLM90-53
SLM90-57

CORE SAMPLE BOTTOMS			
PT. #	X (m)	Y (m)	Z (m)
16 February 1990			
13	-70.278	0.360	0.634
14	-71.927	0.212	0.478
15	-73.008	0.055	0.319
19	-73.960	6.041	0.225
18	-74.026	-11.608	0.192
12	-74.180	-10.975	0.129
17	-74.211	-6.524	0.222
16	-74.277	-0.042	0.186
20	-74.459	12.965	0.223

COMMENTS
SLM90-50
SLM90-51
SLM90-52
SLM90-55
SLM90-56
SLM90-49
SLM90-54
SLM90-53
SLM90-57

14	-72.753	-0.029	0.684
16	-75.502	0.055	0.203
17	-77.876	0.135	-0.015
18	-79.961	0.126	-0.166
19	-81.909	0.084	-0.243
20	-84.159	0.011	-0.298
21	-85.899	-0.031	-0.338
22	-87.778	-0.152	-0.361
23	-89.800	0.033	-0.376
24	-91.737	0.067	-0.293
25	-93.664	0.157	-0.105
26	-96.168	-0.049	-0.036
27	-98.179	0.152	-0.113
28	-100.722	0.042	-0.095
29	-103.210	-0.078	-0.260
30	-105.778	0.152	-0.344
31	-107.893	0.273	-0.412
32	-110.644	0.175	-0.530
33	-113.471	-0.070	-0.521
34	-116.847	0.116	-0.529
35	-120.056	0.074	-0.526
36	-122.368	0.064	-0.453
37	-125.518	0.332	-0.381
38	-128.945	0.076	-0.428
39	-133.225	0.229	-0.419
40	-136.264	-0.143	-0.564
41	-139.348	0.078	-0.787
42	-141.934	0.582	-1.148

MAIN LINE			
16 February 1990 1235 to 1250 (CST)			
Bench Mark Elev. = 0.000 m	Ref. Point Elev. = 5.704 m		
PT. #	X (m)	Y (m)	Z (m)
21	-41.771	0.002	1.214
22	-45.007	-0.030	1.182
23	-50.508	0.032	1.126
24	-55.512	0.045	1.076
25	-59.262	-0.008	1.052
26	-60.497	0.072	0.977
27	-67.600	0.603	0.968
28	-70.110	0.303	0.638
29	-71.873	0.286	0.478
30	-74.334	0.028	0.208
31	-75.333	-0.131	0.130
32	-76.396	-0.193	0.213
33	-79.099	-0.301	-0.077
34	-81.144	-0.342	-0.267
35	-84.275	-0.459	-0.352
36	-87.256	-0.338	-0.311
37	-90.096	-0.375	-0.195
38	-93.640	-0.264	-0.114
39	-97.248	-0.107	-0.143
40	-100.442	-0.510	-0.211
41	-103.179	-0.733	-0.339
42	-106.750	-0.522	-0.429
43	-109.171	-0.889	-0.438
44	-112.053	-0.887	-0.444
45	-115.033	-0.276	-0.473
46	-118.549	-0.302	-0.385
47	-121.995	-0.274	-0.409
48	-126.019	-0.816	-0.336
49	-129.816	-1.297	-0.493
50	-135.899	-1.741	-0.843
51	-138.430	-1.064	-0.925

Lakeward of ice ft.

PROFILE DATA: KOHLER-ANDRAE STATE PARK, WISCONSIN

Latitude/Longitude (UTM): 43°39'07"N/87°44'37"W
(483326N/044145E)

Date: February 18, 1990

February 19, 1990

Time: February 18: 1610 - 1710 CST

February 11: 1100 - 1645 CST

Location: See attached sketch - The survey was run appropriately 150 meters south the most southerly beach front parking lot in the park. The Geodimeter was set up on a sandy knoll at the rear of the beach at a point where there is a gully leading up to the knoll and a clearing in the trees that line the top of the first ridge parallel to the beach. The rear marker was a small pine tree at the head of the gully. The Mainline (ML) extended from the tree at an angle of 246° mag through a stick planted in the ground at the top of the southerly knoll. This line perpendicularly intercepts the shoreline. No permanent markers were left for future surveys. This location is not tied into any bench mark.

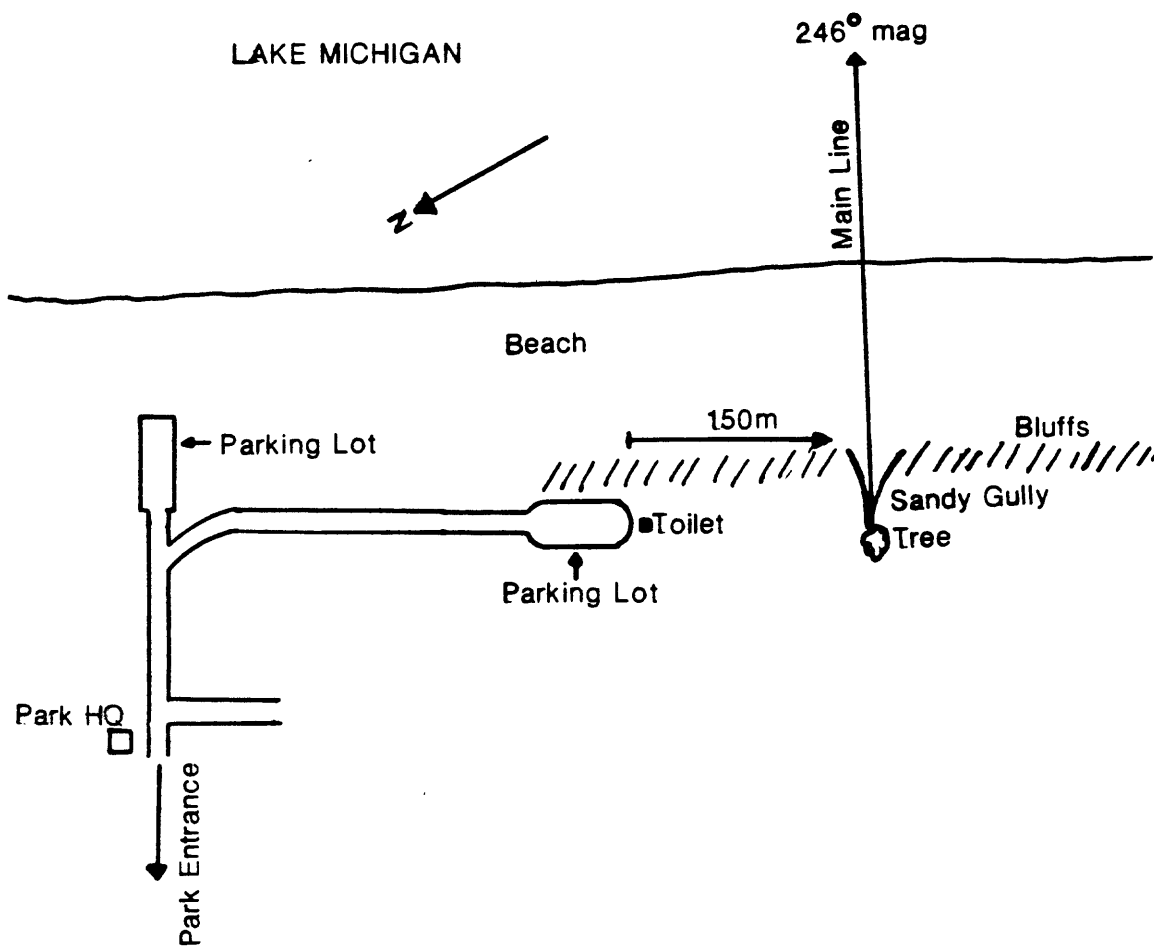
Horizontal Control: Four profile lines were surveyed parallel to the center line. Lines North Line 1 and North Line 2 (NL1, NL2) were spaced 25 meters apart with NL1 being most proximal to the Main Line. The South Lines were identically set up.

Vertical Control: Elevations are related to lake level on February 19 at 1457 CST. Three readings were taken of the lake level. These indicated a rear reference mark elevation of 3.559 meters above lake level.

Notes: The profile was set up on February 18 at a point along the shore where there was a breach in the outer ice foot, and slush ice was subsequently filling up the lagoon behind this ridge. By February 19, this breach had been filled and a new ice foot had built up.

Whereas eight offshore profile lines were run, only five onshore lines were run. Three offshore lines did to connect with a respective onshore lines (Offshore Lines 3, 7, 8). In order to use these data in conjunction with the other lines, a correction must be made for wave motion. As there is no "average offset" of these lines because they do not overlap with an onshore line, the "offset" value listed is an average of the "average offsets" of those lines that do merge with onshore lines.

For line Shore Parallel 3, the boat was manually pulled along so that sightings could be taken with the Geodimeter with greater ease. The line was run just offshore of the outer ice foot.



KOHLER-ANDRAE STATE PARK, WISCONSIN
Reference Point Elevation = 3.559 m
Surveying Crew: Michael McCormick, Peter Barnes, Ed Kempema,
Erk Reimnitz & Eran Hayden

KOHLER-ANDRAE STATE PARK: LAKE LEVEL
19 February 1990 1456 to 1458 (CST)
Bench Mark Elev. = 0.000 m Ref. Point Elev. = 3.559 m

TIME COMMENTS

PT. #	X (m)	Y (m)	Z (m)
374	-84.801	46.808	-0.002
375	-85.112	46.653	-0.004
373	-86.564	47.527	-0.004

KOHLER-ANDRAE STATE PARK: MAIN LINE
18 February 1990 1610 to 1630 (CST)
Bench Mark Elev. = 0.000 m Ref. Point Elev. = 3.559 m

TIME COMMENTS

PT. #	X (m)	Y (m)	Z (m)
2	-29.319	-0.553	2.316
3	-34.780	-0.642	1.808
4	-43.808	-0.614	1.402
5	-55.067	-0.682	1.019
6	-63.121	-0.784	0.909
7	-71.060	-0.666	0.800
8	-72.625	-0.517	0.624
11	-79.741	-0.905	-0.226
12	-81.107	-0.866	-0.209
13	-83.597	-1.132	-0.205
14	-88.477	-1.112	-0.523
15	-92.291	-1.084	-0.636
16	-95.611	-1.022	-0.612
17	-98.417	-1.135	-0.580
18	-99.826	-0.995	-0.583
19	-102.740	-0.835	-0.604
20	-105.724	-0.282	-0.573
21	-108.537	-0.928	-0.550
22	-111.773	-0.557	-0.529
25	-115.621	-0.962	-0.477
26	-116.104	-0.917	-0.583

inner icefoot scarp

KOHLER-ANDRAE STATE PARK: CROSS LINE (Profile Line of lake
bed run across breach in ice foot and back through the
ice lagoon)

18 February 1990 1635 to 1710 (CST)

COMMENTS
End edge of keyhole

PT. #	X (m)	Y (m)	Z (m)
51	-75.931	-68.078	-0.027
50	-76.756	-68.449	-0.112
49	-78.322	-70.032	-0.040
48	-79.759	-71.046	-0.242
47	-80.766	-70.686	-0.331
46	-83.168	-70.986	-0.496
45	-85.446	-70.589	-0.575
44	-89.166	-70.977	-0.670
43	-94.121	-70.211	-0.722
42	-98.497	-69.359	-0.721
36	-99.987	-55.164	-0.731
35	-102.901	-54.238	-0.656
40	-103.327	-60.688	-0.693
41	-103.391	-68.822	-0.659
39	-104.877	-60.410	-0.315
32	-105.355	-41.181	-0.575
34	-105.565	-53.640	-0.548
33	-105.580	-49.832	-0.577
31	-108.101	-31.815	-0.535
38	-109.061	-54.513	-0.500
30	-110.793	-21.306	-0.551
27	-112.835	-4.309	-0.472

N end N ice prom

W side of ice ridge

Shoreward side of ice ridge

S end N ice prom

E of ice ridge

In slush ice bay

28 -113.251 -8.783 -0.674
29 -113.386 -14.967 -0.587
26 -113.505 -1.166 -0.702

Tip of S ice prom

KOHLER-ANDRAE STATE PARK: CROSS LINE (Selected points of ice
surface taken while running Cross Line profile)

18 February 1990 1635 to 1710 (CST)
Bench Mark Elev. = 0.000 m Ref. Point Elev. = 3.559 m

TIME COMMENTS

PT. #	X (m)	Y (m)	Z (m)
53	-64.382	-64.426	0.923
52	-74.782	-68.041	1.068
37	-108.839	-53.508	0.876

KOHLER-ANDRAE STATE PARK: NORTH LINE 2 (MERGED ON- & OFFSHORE PROFILES)
19 February 1990 1240 to 1300 (CST) (ONSHORE)
19 February 1990 1625 to 1629 (CST) (OFFSHORE)
Average offset for 13 points = -0.112985

TIME COMMENTS

PT. #	X (m)	Y (m)	Z (m)
144	-25.475	-47.536	2.393
145	-27.536	-47.678	2.004
146	-32.293	-48.420	1.702
147	-36.109	-48.724	1.621
148	-39.57	-48.818	1.457
149	-43.415	-48.814	1.392
150	-47.291	-49.099	1.203
151	-51.277	-49.368	1.067
152	-54.942	-49.662	0.980
153	-58.939	-49.887	0.872
154	-62.577	-50.116	0.893
155	-66.919	-50.335	0.823
156	-69.169	-50.323	0.646
222	-70.966	-50.426	0.174
223	-72.61	-50.478	0.086
224	-74.605	-50.568	-0.052
157	-76.052	-50.868	-0.335
158	-77.852	-50.878	-0.089
159	-78.256	-50.976	-0.169
160	-80.478	-51.218	-0.176
161	-83.239	-51.174	-0.179
162	-86.029	-51.321	-0.599
163	-88.465	-51.481	-0.604
164	-90.875	-51.627	-0.686
165	-92.498	-51.659	-0.744
166	-94.656	-51.844	-0.874
167	-96.874	-52.040	-0.806
168	-98.906	-52.252	-0.810
169	-101.315	-52.218	-0.753
170	-103.397	-52.380	-0.676
171	-105.078	-52.495	-0.617
172	-106.024	-52.674	-0.606
173	-107.927	-52.963	-0.591
174	-109.239	-53.132	-0.516
175	-110.478	-53.182	-0.601
176	-111.777	-52.904	-0.496
177	-113.756	-53.017	-0.479
178	-116.24	-53.148	-0.532
179	-118.462	-53.219	-0.527
180	-120.816	-53.465	-0.626
181	-122.672	-53.613	-0.652
182	-124.909	-53.780	-0.771
108	-127.000	-60.130	-0.713
107	-127.960	-60.250	-0.783
106	-128.610	-60.320	-0.783
105	-129.580	-60.430	-0.713
104	-130.540	-60.550	-0.643
103	-131.190	-60.620	-0.643

1629.12
1629.09
1629.07
1629.04
1629.01
1628.99

36	-236.830	-73.370	-3.043	1626.99
35	-237.440	-73.460	-3.043	1626.98
34	-238.050	-73.540	-3.043	1626.97
33	-239.270	-73.710	-3.563	1626.95
32	-239.880	-73.790	-3.563	1626.94
31	-241.720	-74.040	-3.563	1626.91
30	-242.940	-74.200	-3.563	1626.89
29	-243.560	-74.280	-3.563	1626.88
28	-245.390	-74.530	-3.193	1626.85
27	-246.000	-74.610	-3.263	1626.84
26	-247.230	-74.780	-3.263	1626.82
25	-249.060	-75.030	-3.343	1626.79
24	-250.900	-75.280	-3.343	1626.76
23	-251.510	-75.360	-3.413	1626.75
22	-252.120	-75.440	-3.413	1626.74
21	-252.730	-75.520	-3.493	1626.73
20	-255.790	-75.940	-3.493	1626.68
19	-258.850	-76.350	-3.413	1626.63
18	-261.300	-76.680	-3.413	1626.59
17	-274.760	-78.500	-3.193	1626.37
16	-277.820	-78.910	-3.043	1626.32
15	-280.270	-79.240	-2.963	1626.28
14	-282.710	-79.580	-2.743	1626.24
13	-285.160	-79.910	-2.593	1626.20
12	-288.220	-80.320	-2.443	1626.15
11	-291.890	-80.820	-2.293	1626.09
10	-295.560	-81.310	-2.143	1626.03
9	-298.010	-81.640	-2.063	1625.99
8	-301.070	-82.060	-2.063	1625.94
7	-304.130	-82.470	-2.063	1625.89
6	-306.580	-82.800	-2.063	1625.85
5	-308.410	-83.050	-2.063	1625.82
4	-309.020	-83.130	-2.063	1625.81
3	-311.470	-83.460	-2.143	1625.77
2	-312.080	-83.540	-2.143	1625.76
1	-312.700	-83.630	-2.213	1625.75

KOHLE-ANDRAE STATE PARK: NORTH LINE 1 (MERGED ON- & OFFSHORE PROFILES)

19 February 1990	1157 to 1220 (CST) (ONSHORE)		
19 February 1990	1618 to 1625 (CST) (OFFSHORE)		
Average offset for 17 points = -0.128220			
PT. #	X (m)	Y (m)	Z (m)
71	-25.574	-22.350	3.025
72	-27.557	-22.316	2.616
73	-29.751	-22.745	2.237
74	-33.065	-23.159	1.967
75	-36.202	-23.356	1.664
76	-40.089	-23.768	1.460
77	-44.165	-24.044	1.362
78	-48.044	-24.098	1.182
79	-52.578	-24.501	1.046
80	-58.046	-24.705	0.959
81	-61.851	-25.031	0.917
82	-65.322	-25.233	0.911
83	-68.868	-25.541	0.803
84	-70.84	-25.740	0.655
85	-73.249	-25.665	0.639
86	-74.534	-25.698	0.382
87	-76.269	-25.774	-0.065
88	-77.408	-25.742	-0.076
89	-80.367	-26.266	-0.246
90	-82.329	-26.494	-0.358
91	-84.558	-26.358	-0.498
92	-87.121	-26.539	-0.580
93	-89.771	-26.656	-0.718
94	-92.182	-26.919	-0.438

Ice/shore

102	-132.150	-60.740	-0.713	1628.96
101	-133.440	-60.890	-0.713	1628.92
100	-134.410	-61.000	-0.713	1628.89
99	-135.380	-61.110	-0.713	1628.86
98	-136.350	-61.230	-0.643	1628.83
97	-137.130	-61.320	-0.643	1628.81
96	-138.750	-61.510	-0.563	1628.78
95	-139.830	-61.640	-0.643	1628.76
94	-140.360	-61.700	-0.643	1628.75
93	-140.900	-61.770	-0.643	1628.74
92	-142.520	-61.960	-0.713	1628.71
91	-144.670	-62.220	-0.713	1628.67
90	-145.750	-62.350	-0.713	1628.65
89	-146.820	-62.470	-0.783	1628.63
88	-148.980	-62.730	-0.943	1628.59
87	-150.590	-62.920	-1.013	1628.56
86	-151.670	-63.050	-1.093	1628.54
85	-152.740	-63.180	-1.243	1628.52
84	-155.970	-63.560	-1.463	1628.46
83	-158.130	-63.820	-1.613	1628.42
82	-160.280	-64.070	-1.693	1628.38
81	-162.430	-64.330	-1.763	1628.34
80	-164.050	-64.520	-1.843	1628.31
79	-166.200	-64.780	-1.843	1628.27
78	-167.280	-64.910	-1.843	1628.25
77	-167.830	-64.940	-1.913	1628.24
76	-174.420	-65.370	-1.993	1628.12
75	-175.520	-65.450	-1.993	1628.10
74	-176.070	-65.480	-1.993	1628.09
73	-177.720	-65.590	-1.993	1628.06
72	-179.920	-65.730	-1.913	1628.02
71	-181.020	-65.800	-1.763	1628.00
70	-182.120	-65.880	-1.613	1627.98
69	-184.320	-66.020	-1.463	1627.94
68	-185.420	-66.090	-1.393	1627.92
67	-186.520	-66.160	-1.243	1627.90
66	-187.620	-66.240	-1.163	1627.88
65	-190.370	-66.420	-1.093	1627.83
64	-191.470	-66.490	-1.093	1627.81
63	-193.110	-66.610	-1.093	1627.78
62	-195.210	-66.960	-1.093	1627.74
61	-195.730	-67.050	-1.163	1627.73
60	-199.400	-67.660	-1.243	1627.66
59	-200.980	-67.920	-1.393	1627.63
58	-203.600	-68.350	-1.543	1627.58
57	-205.180	-68.610	-1.613	1627.55
56	-207.270	-68.960	-1.763	1627.51
55	-210.420	-69.480	-1.993	1627.45
54	-212.520	-69.830	-2.143	1627.41
53	-214.100	-70.090	-2.213	1627.38
52	-215.150	-70.270	-2.293	1627.36
51	-218.290	-70.790	-2.443	1627.30
50	-220.390	-71.140	-2.443	1627.26
49	-221.530	-71.310	-2.443	1627.24
48	-223.980	-71.640	-2.513	1627.20
47	-227.040	-72.050	-2.663	1627.15
46	-228.260	-72.220	-2.813	1627.13
45	-228.870	-72.300	-2.813	1627.12
44	-229.480	-72.380	-2.813	1627.11
43	-230.710	-72.550	-3.043	1627.09
42	-231.320	-72.630	-3.043	1627.08
41	-231.930	-72.710	-3.113	1627.07
40	-232.540	-72.800	-3.113	1627.06
39	-233.150	-72.880	-3.113	1627.05
38	-233.770	-72.960	-3.113	1627.04
37	-234.990	-73.130	-3.043	1627.02

95	-94.433	-27.131	-0.773	1621.25	1622.76	-1.708	-30.030	1622.76
96	-97.195	-27.114	-0.760	1621.26	1622.77	-1.708	-30.100	1622.77
97	-99.569	-27.226	-0.713	1621.28	1622.80	-1.858	-30.330	1622.80
98	-101.559	-27.291	-0.615	1621.33	1622.82	-2.008	-30.470	1622.82
99	-103.985	-27.514	-0.632	1621.34	1622.85	-2.078	-30.700	1622.85
100	-105.983	-27.863	-0.609	1621.36	1622.89	-2.228	-30.990	1622.89
101	-108.351	-28.101	-0.544	1621.39	1622.92	-2.378	-31.210	1622.92
102	-110.035	-28.104	-0.447	1621.46	1622.94	-2.458	-31.360	1622.94
103	-113.269	-28.173	-0.392	1621.51	1622.99	-2.608	-31.730	1622.99
104	-115.089	-28.388	-0.575	1621.57	1623.01	-2.758	-31.880	1623.01
1	-115.950	-28.280	-0.578	1621.64	1623.03	-2.828	-32.030	1623.03
2	-116.530	-28.300	-0.658	1621.66	1623.07	-2.978	-32.320	1623.07
3	-117.700	-28.340	-0.658	1621.69	1623.09	-3.058	-32.470	1623.09
4	-120.610	-28.450	-0.508	1621.79	1623.15	-3.208	-32.910	1623.15
5	-121.190	-28.470	-0.508	1621.81	1623.20	-3.358	-33.280	1623.20
6	-122.350	-28.520	-0.578	1621.85	1623.21	-3.428	-33.360	1623.21
7	-124.100	-28.580	-0.658	1621.87	1623.23	-3.428	-33.510	1623.23
8	-125.840	-28.730	-0.728	1621.89	1623.28	-3.508	-33.990	1623.28
9	-128.170	-28.800	-0.658	1621.92	1623.30	-3.578	-34.210	1623.30
10	-129.910	-28.800	-0.658	1621.94	1623.31	-3.578	-34.330	1623.31
11	-131.080	-28.840	-0.508	1621.96	1623.32	-3.658	-34.440	1623.32
12	-134.570	-28.970	-0.508	1621.99	1623.33	-3.728	-34.550	1623.33
13	-138.640	-29.120	-0.428	1621.99	1623.34	-3.808	-34.660	1623.34
14	-139.810	-29.160	-0.508	1621.99	1623.36	-3.808	-34.890	1623.36
15	-147.580	-29.660	-0.728	1621.99	1623.37	-3.808	-35.000	1623.37
16	-148.850	-29.810	-0.878	1621.81	1623.38	-3.808	-35.110	1623.38
17	-151.400	-29.810	-1.028	1621.85	1623.39	-3.578	-35.230	1623.39
18	-152.670	-29.810	-1.108	1621.87	1623.41	-3.428	-35.450	1623.41
19	-153.940	-29.810	-1.178	1621.89	1623.45	-3.278	-35.900	1623.45
20	-155.840	-29.810	-1.258	1621.92	1623.47	-3.278	-36.120	1623.47
21	-157.110	-29.810	-1.478	1621.94	1623.53	-3.558	-36.800	1623.53
22	-158.380	-29.810	-1.558	1621.96	1623.59	-3.358	-37.470	1623.59
23	-159.020	-29.810	-1.628	1621.97	1623.64	-3.278	-38.030	1623.64
24	-160.290	-29.810	-1.708	1621.99	1623.71	-3.128	-38.820	1623.71
25	-160.920	-29.810	-1.778	1622.00	1623.74	-3.058	-39.160	1623.74
26	-162.830	-29.810	-1.778	1622.03	1623.75	-3.058	-39.270	1623.75
27	-164.740	-29.810	-1.858	1622.06	1623.76	-3.058	-39.310	1623.76
28	-166.640	-29.810	-1.928	1622.09	1623.77	-2.978	-39.350	1623.77
29	-167.280	-29.810	-1.928	1622.10	1623.82	-2.828	-39.540	1623.82
30	-167.910	-29.810	-2.008	1622.11	1623.86	-2.758	-39.700	1623.86
31	-168.550	-29.810	-2.078	1622.12	1623.91	-2.608	-39.890	1623.91
32	-169.180	-29.810	-2.078	1622.13	1623.98	-2.578	-40.170	1623.98
33	-169.820	-29.810	-2.078	1622.14	1624.03	-2.228	-40.360	1624.03
34	-172.360	-29.810	-2.078	1622.18	1624.06	-2.158	-40.480	1624.06
35	-172.990	-29.810	-2.078	1622.19	1624.10	-2.158	-40.630	1624.10
36	-174.260	-29.810	-2.008	1622.21	1624.16	-2.078	-40.870	1624.16
37	-175.540	-29.810	-2.008	1622.23	1624.21	-2.078	-41.060	1624.21
38	-178.030	-29.810	-2.008	1622.27	1624.25	-2.078	-41.220	1624.25
39	-179.250	-29.810	-1.708	1622.29	1624.28	-2.158	-41.360	1624.28
40	-180.480	-29.810	-1.628	1622.31	1624.32	-2.228	-41.550	1624.32
41	-182.310	-29.810	-1.558	1622.34	1624.38	-2.308	-41.830	1624.38
42	-183.540	-29.810	-1.478	1622.36	1624.42	-2.458	-42.020	1624.42
43	-184.760	-29.810	-1.328	1622.38	1624.45	-2.528	-42.160	1624.45
44	-185.370	-29.810	-1.328	1622.39	1624.48	-2.608	-42.300	1624.48
45	-186.590	-29.810	-1.258	1622.41	1624.53	-2.678	-42.540	1624.53
46	-187.820	-29.810	-1.258	1622.43	1624.57	-2.758	-42.720	1624.57
47	-188.430	-29.810	-1.178	1622.44	1624.62	-2.828	-42.960	1624.62
48	-194.550	-29.810	-1.108	1622.54	1624.67	-2.978	-43.190	1624.67
49	-195.770	-29.810	-1.108	1622.56				
50	-197.610	-29.810	-1.108	1622.59				
51	-198.220	-29.810	-1.108	1622.60				
52	-200.050	-29.810	-1.178	1622.63				
53	-201.280	-29.810	-1.328	1622.65				
54	-202.500	-29.810	-1.408	1622.67				
55	-203.720	-29.810	-1.478	1622.69				
56	-206.170	-29.810	-1.628	1622.73				

KOHLER-ANDRAE STATE PARK: MAIN LINE (MERGED ON- & OFFSHORE PROFILES)
 19 February 1990 1108 to 1140 (CST) (ONSHORE)
 19 February 1990 1614 to 1617 (CST) (OFFSHORE)
 Average offset for 12 points = -0.057323
 PT. # X (m) Y (m) Z (m) TIME COMMENTS
 2 -20.811 0.095 5.222
 3 -21.642 0.010 3.949

44 -210.970 -2.210 -1.857 1615.99
 43 -217.310 -2.170 -2.007 1615.96
 42 -221.540 -2.150 -2.157 1615.94
 41 -251.140 -1.970 -2.607 1615.80
 40 -257.480 -1.940 -2.607 1615.77
 39 -265.940 -1.890 -2.687 1615.73
 38 -272.470 -1.890 -2.757 1615.69
 37 -272.670 -1.920 -2.757 1615.68
 36 -273.640 -2.100 -2.837 1615.63
 35 -274.800 -2.310 -2.837 1615.57
 34 -275.380 -2.420 -2.837 1615.54
 33 -275.770 -2.490 -2.757 1615.52
 32 -276.160 -2.560 -2.907 1615.50
 31 -276.740 -2.660 -2.987 1615.47
 30 -276.930 -2.700 -2.987 1615.46
 29 -277.320 -2.770 -3.287 1615.44
 28 -277.900 -2.880 -3.437 1615.41
 27 -278.090 -2.910 -3.507 1615.40
 26 -278.670 -3.020 -3.357 1615.37
 25 -279.060 -3.090 -3.357 1615.35
 24 -279.450 -3.160 -3.357 1615.33
 23 -280.030 -3.260 -3.357 1615.30
 22 -281.000 -3.440 -3.287 1615.25
 21 -281.580 -3.550 -3.207 1615.22
 20 -282.350 -3.690 -3.057 1615.18
 19 -282.940 -3.790 -2.907 1615.15
 18 -283.710 -3.940 -2.757 1615.11
 17 -284.480 -4.080 -2.607 1615.07
 16 -285.070 -4.180 -2.457 1615.04
 15 -285.450 -4.210 -2.457 1615.03
 14 -287.000 -4.230 -2.387 1615.01
 13 -287.780 -4.230 -2.307 1615.00
 12 -290.880 -4.270 -2.237 1614.96
 11 -293.980 -4.300 -2.157 1614.92
 10 -294.750 -4.310 -2.157 1614.91
 9 -303.280 -4.410 -2.157 1614.80
 8 -305.600 -4.430 -2.157 1614.77
 7 -308.700 -4.470 -2.237 1614.73
 6 -313.350 -4.520 -2.387 1614.67
 5 -315.680 -4.550 -2.457 1614.64
 4 -317.220 -4.560 -2.537 1614.62
 3 -320.320 -4.600 -2.607 1614.58
 2 -325.750 -4.660 -2.907 1614.51
 1 -326.520 -4.670 -2.907 1614.50

KONLER-ANDRAE STATE PARK: SOUTH LINE 1 (MERGED ON- & OFFSHORE PROFILES)
 19 February 1990 1325 to 1345 (CST) (ONSHORE)
 19 February 1990 1606 to 1609 (CST) (OFFSHORE)

Average offset for 14 points = -0.130318 TIME COMMENTS

PT.# Z (m)

Y (m)

X (m)

TIME

COMMENTS

225 -27.575 26.105 2.618

226 -29.202 25.904 1.979

227 -32.896 25.791 1.741

228 -36.146 25.772 1.650

229 -40.34 25.500 1.351

230 -44.336 25.400 1.254

231 -48.672 25.375 1.184

232 -52.684 25.168 1.101

233 -56.595 25.071 0.995

234 -60.493 24.886 0.896

235 -63.933 24.772 0.818

236 -68.046 24.665 0.869

237 -71.989 24.507 0.798

238 -73.492 24.391 0.601

239 -75.231 24.478 0.318

240 -77.249 23.995 0.153

inner ice ft.

outer ice ft.

4 -28.04 -0.247 2.424 1616.99
 5 -32.416 -0.402 1.940 1616.92
 6 -35.934 -0.568 1.687 1616.88
 7 -39.317 -0.647 1.487 1616.87
 8 -43.333 -0.661 1.370 1616.85
 9 -47.377 -0.605 1.184 1616.80
 10 -51.295 -0.639 1.051 1616.79
 11 -56.138 -0.664 0.980 1616.77
 12 -61.298 -0.862 0.861 1616.74
 13 -66.08 -1.160 0.875 1616.71
 14 -71.759 -0.948 0.666 1616.68
 15 -73.815 -0.705 0.360 1616.64
 16 -76.904 -0.613 0.293 1616.62
 17 -77.842 -0.781 0.031 1616.58
 18 -79.222 -0.979 -0.275 1616.51
 19 -79.835 -1.042 -0.314 1616.47
 20 -81.068 -1.015 -0.353 1616.43
 21 -83.372 -1.030 -0.302 1616.40
 22 -87.696 -1.234 -0.573 1616.37
 23 -92.379 -1.137 -0.727 1616.33
 24 -94.97 -1.330 -0.710 1616.31
 25 -98.237 -1.661 -0.628 1616.30
 26 -102.27 -1.100 -0.702 1616.30
 27 -107.687 -1.609 -0.598 1616.28
 28 -112.021 -1.691 -0.562 1616.28
 29 -115.093 -1.395 -0.595 1616.27
 30 -116.963 -1.434 -0.936 1616.27
 31 -119.041 -1.596 -0.817 1616.27
 32 -120.011 -1.272 -0.575 1616.27
 33 -120.409 -1.410 -0.526 1616.27
 34 -122.521 -1.545 -0.533 1616.27
 35 -125.222 -1.484 -0.684 1616.27
 36 -128.154 -1.452 -0.702 1616.27
 37 -130.040 -0.300 -0.587 1616.27
 38 -136.100 -0.440 -0.437 1616.27
 39 -139.560 -0.520 -0.437 1616.27
 40 -140.420 -0.540 -0.437 1616.27
 41 -142.150 -0.580 -0.507 1616.27
 42 -146.480 -0.680 -0.657 1616.27
 43 -147.340 -0.700 -0.727 1616.27
 44 -149.070 -0.740 -0.807 1616.27
 45 -151.670 -0.800 -0.957 1616.27
 46 -154.260 -0.860 -1.107 1616.27
 47 -156.860 -0.920 -1.257 1616.27
 48 -160.320 -1.000 -1.487 1616.27
 49 -162.050 -1.040 -1.557 1616.27
 50 -165.500 -1.120 -1.707 1616.27
 51 -168.640 -1.200 -1.857 1616.27
 52 -170.880 -1.260 -1.937 1616.27
 53 -173.860 -1.330 -1.937 1616.27
 54 -176.830 -1.410 -1.937 1616.27
 55 -179.070 -1.460 -1.937 1616.27
 56 -181.300 -1.520 -1.787 1616.27
 57 -184.280 -1.600 -1.637 1616.27
 58 -185.770 -1.640 -1.487 1616.27
 59 -186.510 -1.650 -1.407 1616.27
 60 -188.000 -1.690 -1.337 1616.27
 61 -190.980 -1.770 -1.187 1616.27
 62 -192.470 -1.810 -1.107 1616.27
 63 -195.450 -1.880 -1.107 1616.27
 64 -196.940 -1.920 -1.037 1616.27
 65 -198.430 -1.960 -1.107 1616.27
 66 -201.410 -2.030 -1.187 1616.27
 67 -202.890 -2.070 -1.337 1616.27
 68 -204.380 -2.110 -1.487 1616.27
 69 -205.870 -2.150 -1.557 1616.27

241	-78.698	24.115	-0.010	1608.09
242	-80.751	24.092	-0.118	1608.06
243	-82.666	24.041	-0.435	1608.00
244	-84.955	23.996	-0.394	1607.93
245	-86.799	23.903	-0.520	1607.88
246	-89.183	23.668	-0.651	1607.84
247	-91.184	23.465	-0.678	1607.78
248	-93.903	23.608	-0.741	1607.74
249	-96.568	23.633	-0.688	1607.67
250	-98.789	23.642	-0.674	1607.63
251	-101.099	23.353	-0.614	1607.58
252	-105.056	23.370	-0.664	1607.56
253	-107.626	22.825	-0.566	1607.55
254	-109.677	22.727	-0.631	1607.52
255	-111.951	22.706	-0.645	1607.51
256	-114.111	22.691	-0.703	1607.49
257	-116.911	22.849	-0.748	1607.47
258	-118.67	22.676	-0.767	1607.44
259	-120.168	22.560	-0.739	1607.29
260	-123.218	22.654	-0.710	1607.25
261	-125.052	22.493	-0.679	1607.20
58	-125.560	20.510	-0.660	1607.13
57	-126.670	20.390	-0.660	1607.08
56	-128.900	20.130	-0.660	1607.05
55	-131.500	19.830	-0.580	1607.02
54	-133.360	19.620	-0.580	1606.98
53	-134.840	19.450	-0.510	1606.95
52	-137.070	19.190	-0.510	1606.91
51	-138.550	19.020	-0.510	1606.87
50	-141.150	18.720	-0.510	1606.84
49	-142.640	18.550	-0.430	1606.80
48	-144.490	18.330	-0.510	1606.75
47	-145.230	18.250	-0.580	1606.71
46	-145.610	18.200	-0.580	1606.69
45	-146.720	18.080	-0.730	1606.66
44	-147.090	18.030	-0.730	1606.64
43	-148.020	17.960	-0.730	1606.60
42	-148.580	17.930	-0.730	1606.58
41	-149.140	17.900	-0.800	1606.55
40	-150.820	17.810	-0.880	1606.54
39	-159.210	17.370	-1.410	1606.52
38	-161.450	17.250	-1.480	1606.51
37	-162.570	17.190	-1.560	1606.50
36	-164.240	17.100	-1.710	1606.48
35	-168.160	16.900	-1.780	1606.47
34	-170.930	16.750	-1.860	1606.44
33	-172.320	16.680	-1.930	1606.42
32	-173.710	16.610	-1.930	1606.40
31	-175.560	16.510	-1.930	1606.37
30	-176.960	16.440	-1.930	1606.36
29	-178.810	16.340	-1.780	1606.33
28	-180.670	16.250	-1.710	1606.30
27	-182.060	16.180	-1.560	1606.27
26	-183.910	16.080	-1.410	1606.22
25	-186.230	15.960	-1.260	1606.18
24	-188.090	15.860	-1.180	1606.14
23	-189.020	15.820	-1.110	1606.11
22	-190.410	15.740	-1.030	1606.07
21	-191.340	15.700	-1.030	1606.04
20	-194.120	15.550	-1.110	1606.03
19	-195.510	15.480	-1.030	1606.02
18	-195.980	15.460	-1.030	1606.01
17	-196.900	15.410	-1.030	1606.00
16	-197.370	15.380	-1.030	1606.00
15	-197.830	15.360	-1.030	1606.00
14	-198.800	15.450	-1.030	1606.00

13	-200.250	15.590	-1.030	1606.45
12	-202.660	15.830	-1.110	1606.40
11	-204.110	15.970	-1.180	1606.37
10	-205.070	16.060	-1.330	1606.35
9	-206.520	16.200	-1.480	1606.32
8	-208.940	16.440	-1.710	1606.27
7	-211.350	16.670	-1.860	1606.22
6	-218.590	17.380	-2.380	1606.07
5	-220.040	17.520	-2.460	1606.04
4	-220.520	17.570	-2.530	1606.03
3	-221.010	17.610	-2.530	1606.02
2	-221.490	17.660	-2.530	1606.01
1	-221.970	17.710	-2.530	1606.00

KOHLER-ANDRAE STATE PARK: SOUTH LINE 2 (MERGED ON- & OFFSHORE PROFILES)
 19 February 1990 1415 to 1435 (CST) (ONSHORE)
 19 February 1990 1559 to 1605 (CST) (OFFSHORE)
 Average offset for 17 points = -0.139653

COMMENTS

TIME

Z (m)

Y (m)

X (m)

PT. #

ice/shore

PT.#	X (m)	Y (m)	Z (m)	TIME
1	-120.1	5.62	-0.6437	1609.50
2	-121.71	5.49	-0.6437	1609.53
3	-123.29	5.36	-0.6437	1609.56
4	-124.87	5.23	-0.6437	1609.59
5	-126.97	5.05	-0.7137	1609.63
6	-129.61	4.83	-0.7137	1609.68
7	-130.66	4.74	-0.6437	1609.70
8	-131.71	4.66	-0.5637	1609.72
9	-133.29	4.53	-0.5637	1609.75
10	-134.87	4.39	-0.4937	1609.78
11	-136.98	4.22	-0.4937	1609.82
12	-138.56	4.09	-0.4937	1609.85
13	-140.14	3.96	-0.4937	1609.88
14	-143.82	3.65	-0.5637	1609.95
15	-144.88	3.56	-0.6437	1609.97
16	-146.46	3.43	-0.6437	1610.00
17	-148.56	3.26	-0.7837	1610.04
18	-150.67	3.08	-0.9437	1610.08
19	-152.77	2.91	-1.0937	1610.12
20	-153.30	2.86	-1.1637	1610.13
21	-154.35	2.78	-1.1637	1610.15
22	-154.88	2.73	-1.2437	1610.16
23	-156.46	2.60	-1.3137	1610.19
24	-158.04	2.47	-1.4637	1610.22
25	-169.88	1.72	-1.9937	1610.40
26	-171.94	1.60	-1.9937	1610.43
27	-173.99	1.48	-1.9937	1610.46
28	-176.04	1.35	-1.9137	1610.49
29	-178.78	1.19	-1.7637	1610.53
30	-182.20	0.98	-1.5437	1610.58
31	-183.57	0.90	-1.3937	1610.60
32	-186.31	0.74	-1.3137	1610.64
33	-187.67	0.65	-1.1637	1610.66
34	-189.04	0.57	-1.0937	1610.68
35	-191.78	0.41	-1.0937	1610.72
36	-192.46	0.37	-1.0937	1610.73
37	-193.15	0.33	-1.0937	1610.74
38	-195.76	0.01	-1.0937	1610.78
39	-196.40	-0.08	-1.0937	1610.79
40	-197.68	-0.26	-1.0937	1610.81
41	-198.97	-0.44	-1.0937	1610.83
42	-199.61	-0.54	-1.1637	1610.84
43	-202.18	-0.90	-1.3137	1610.88
44	-203.46	-1.08	-1.3937	1610.90
45	-205.39	-1.36	-1.5437	1610.93
46	-207.95	-1.72	-1.6937	1610.97
47	-209.88	-2.00	-1.8437	1611.00
48	-211.81	-2.27	-1.9937	1611.03
49	-213.73	-2.54	-2.0637	1611.06
50	-215.66	-2.82	-2.1437	1611.09
51	-218.87	-3.27	-2.2937	1611.14
52	-221.43	-3.64	-2.4437	1611.18
53	-224.64	-4.09	-2.5137	1611.23
54	-227.85	-4.57	-2.5937	1611.28
55	-228.49	-4.67	-2.6637	1611.29
56	-230.42	-4.96	-2.6637	1611.32
57	-236.20	-5.83	-3.1937	1611.41
58	-236.84	-5.93	-3.2637	1611.42
59	-240.05	-6.42	-3.3437	1611.47
60	-241.33	-6.61	-3.3437	1611.49
61	-242.61	-6.81	-3.3437	1611.51
62	-243.90	-7.00	-3.2637	1611.53
63	-245.82	-7.30	-3.0437	1611.56
64	-247.11	-7.49	-2.9637	1611.58
65	-250.31	-7.98	-2.9637	1611.63

PT.#	X (m)	Y (m)	Z (m)	TIME
17	-125.270	55.470	-0.520	1601.57
18	-126.360	54.170	-0.590	1601.31
19	-126.590	53.500	-0.670	1601.21
20	-127.340	53.090	-0.670	1601.15
21	-127.590	55.380	-0.520	1601.62
22	-128.080	52.690	-0.670	1601.09
23	-128.700	52.350	-0.670	1601.04
24	-129.200	52.080	-0.670	1601.00
25	-129.940	51.670	-0.670	1600.94
26	-130.190	51.540	-0.670	1600.92
27	-130.430	51.400	-0.740	1600.90
28	-130.560	51.330	-0.740	1600.89
29	-132.690	55.180	-0.590	1601.73
30	-135.010	55.090	-0.590	1601.78
31	-136.870	55.010	-0.520	1601.82
32	-140.580	54.870	-0.520	1601.90
33	-144.760	54.700	-0.520	1601.99
34	-147.540	54.590	-0.590	1602.05
35	-150.330	54.480	-0.890	1602.11
36	-152.650	54.390	-1.040	1602.16
37	-154.500	54.320	-1.270	1602.20
38	-159.140	54.130	-1.720	1602.30
39	-160.070	54.100	-1.790	1602.32
40	-160.530	54.080	-1.790	1602.33
41	-161.460	54.040	-1.790	1602.35
42	-163.320	53.970	-1.870	1602.39
43	-166.150	53.910	-1.940	1602.44
44	-170.260	53.900	-1.720	1602.50
45	-170.940	53.900	-1.790	1602.51
46	-175.050	53.880	-1.640	1602.57
47	-178.470	53.870	-1.570	1602.62
48	-181.890	53.860	-1.420	1602.67
49	-185.990	53.840	-1.270	1602.73
50	-190.780	53.820	-1.190	1602.80
51	-194.210	53.810	-1.120	1602.85
52	-196.940	53.800	-1.120	1602.89
53	-199.680	53.790	-1.190	1602.93
54	-201.730	53.780	-1.190	1602.96
55	-205.150	53.770	-1.340	1603.01
56	-205.840	53.770	-1.340	1603.02
57	-207.210	53.760	-1.570	1603.04
58	-209.260	53.750	-1.790	1603.07
59	-212.010	53.630	-2.020	1603.11
60	-214.080	53.490	-2.090	1603.14
61	-216.840	53.310	-2.170	1603.18
62	-218.920	53.180	-2.240	1603.21
63	-220.990	53.040	-2.320	1603.24
64	-223.060	52.910	-2.470	1603.27
65	-225.820	52.730	-2.690	1603.31
66	-229.270	52.500	-2.920	1603.36
67	-230.650	52.410	-3.140	1603.38
68	-232.030	52.320	-3.290	1603.40
69	-238.940	51.870	-3.590	1603.50
70	-239.630	51.830	-3.590	1603.51
71	-241.010	51.740	-3.670	1603.53
72	-242.390	51.650	-3.590	1603.55
73	-243.080	51.600	-3.670	1603.56
74	-244.900	51.300	-3.590	1603.59
75	-246.440	49.830	-3.670	1603.64
76	-247.670	48.660	-3.590	1603.68
77	-248.910	47.480	-3.740	1603.72
78	-253.540	43.080	-3.590	1603.87

KOHLER-ANDRAE STATE PARK: OFFSHORE LINE 3
19 February 1990 1609 to 1614 (CST)
Offset = -0.11370 m

PT.#	X (m)	Y (m)	Z (m)	TIME
1	-113.34	-37.01	-0.5637	1631.75
2	-114.56	-37.27	-0.4937	1631.77
3	-115.18	-37.41	-0.5637	1631.78
4	-117.62	-37.94	-0.6437	1631.82
5	-119.45	-38.34	-0.7137	1631.85
6	-121.89	-38.88	-0.7837	1631.89
7	-123.72	-39.28	-0.7837	1631.92
8	-124.95	-39.55	-0.8637	1631.94
9	-127.39	-40.08	-0.8637	1631.98
10	-128.00	-40.22	-0.7837	1631.99
11	-129.83	-40.62	-0.5637	1632.02
12	-131.05	-40.88	-0.4937	1632.04
13	-132.27	-41.15	-0.4937	1632.06
14	-135.33	-41.82	-0.4937	1632.11
15	-137.16	-42.22	-0.5637	1632.14
16	-142.65	-43.43	-0.6437	1632.23
17	-143.27	-43.56	-0.6437	1632.24
18	-143.88	-43.69	-0.6437	1632.25
19	-144.48	-43.87	-0.7137	1632.26
20	-146.27	-44.39	-0.7837	1632.29
21	-148.07	-44.91	-0.8637	1632.32
22	-149.27	-45.26	-0.9437	1632.34
23	-151.67	-45.95	-1.0937	1632.38
24	-152.87	-46.30	-1.1637	1632.40
25	-154.67	-46.82	-1.2437	1632.43
26	-157.06	-47.51	-1.3937	1632.47
27	-158.86	-48.03	-1.4637	1632.50
28	-161.86	-48.90	-1.6937	1632.55
29	-163.66	-49.42	-1.8437	1632.58
30	-166.65	-50.29	-1.9937	1632.63
31	-168.45	-50.81	-2.0637	1632.66
32	-170.85	-51.50	-2.0637	1632.70
33	-172.65	-52.02	-2.0637	1632.73
34	-173.85	-52.37	-2.0637	1632.75
35	-177.32	-53.33	-1.9137	1632.81
36	-178.48	-53.65	-1.8437	1632.83
37	-180.22	-54.13	-1.6937	1632.86
38	-182.54	-54.77	-1.5437	1632.90
39	-184.85	-55.42	-1.3937	1632.94
40	-186.59	-55.90	-1.2437	1632.97
41	-188.91	-56.54	-1.1637	1633.01
42	-190.07	-56.86	-1.1637	1633.03
43	-191.81	-57.34	-1.0937	1633.06
44	-194.12	-57.98	-1.0937	1633.10
45	-195.86	-58.46	-1.1637	1633.13
46	-198.18	-59.10	-1.2437	1633.17
47	-199.92	-59.59	-1.3137	1633.20
48	-201.66	-60.07	-1.3137	1633.23
49	-203.39	-60.55	-1.4637	1633.26
50	-208.03	-61.83	-1.9137	1633.34
51	-209.19	-62.15	-1.9937	1633.36
52	-210.35	-62.47	-2.0637	1633.38
53	-212.08	-62.95	-2.1437	1633.41
54	-213.82	-63.43	-2.2137	1633.44
55	-214.40	-63.59	-2.2937	1633.45
56	-215.56	-63.91	-2.3637	1633.47
57	-217.96	-64.58	-2.5137	1633.51
58	-220.60	-65.31	-2.5137	1633.55
59	-223.24	-66.04	-2.5137	1633.59
60	-224.56	-66.41	-2.5137	1633.61
61	-226.54	-66.96	-2.5137	1633.64
62	-229.84	-67.87	-2.5137	1633.69
63	-231.82	-68.42	-2.5137	1633.72
64	-233.14	-68.79	-2.5137	1633.74
65	-234.46	-69.15	-2.6637	1633.76
66	-235.78	-69.52	-2.7437	1633.78
67	-236.44	-69.70	-2.8937	1633.79
68	-236.44	-69.70	-2.8937	1633.79
69	-240.39	-70.88	-3.1137	1633.85
70	-241.05	-71.11	-3.1137	1633.86
71	-243.01	-71.79	-3.1937	1633.89
72	-249.57	-74.09	-3.2637	1633.99
73	-250.22	-74.32	-3.2637	1634.00
74	-260.05	-77.76	-3.4137	1634.15
75	-262.67	-78.67	-3.4137	1634.19
76	-266.61	-80.05	-3.3437	1634.25
77	-269.11	-80.71	-3.2637	1634.29
78	-272.86	-81.69	-3.1937	1634.35
79	-277.86	-83.01	-3.0437	1634.43
80	-279.11	-83.34	-2.9637	1634.45
81	-282.24	-84.16	-2.8137	1634.50
82	-284.12	-84.66	-2.7437	1634.53
83	-286.62	-85.32	-2.5937	1634.57
84	-296.62	-87.95	-2.1437	1634.73
85	-297.87	-88.28	-2.1437	1634.75
86	-298.50	-88.44	-2.0637	1634.76
87	-301.02	-89.09	-2.0637	1634.80
88	-301.65	-89.26	-2.0637	1634.81
89	-302.28	-89.42	-2.0637	1634.82
90	-303.54	-89.75	-2.0637	1634.84
91	-305.43	-90.23	-2.1437	1634.87
92	-306.69	-90.56	-2.1437	1634.89
93	-309.21	-91.21	-2.2137	1634.93
94	-312.36	-92.03	-2.2937	1634.98
95	-313.62	-92.35	-2.3637	1635.00

KOHLE-ANDRAE STATE PARK: OFFSHORE LINE 7

19 February 1990 1630 to 1635 (CST)

Offset = -0.113700

96	-316.14	-93.00	-2.4437	1635.04
97	-318.03	-93.49	-2.5137	1635.07
98	-321.18	-94.31	-2.5937	1635.12
99	-323.69	-94.96	-2.7437	1635.16
100	-326.21	-95.61	-2.8137	1635.20
101	-328.73	-96.26	-2.8937	1635.24

KOHLER-ANDRAE STATE PARK: OFFSHORE LINE 8

19 February 1990 1636 to 1642 (CST)				
PT. #	X (m)	Y (m)	Z (m)	TIME COMMENTS
1	-317.04	-110.99	-2.5137	1637.00
2	-316.44	-110.79	-2.4437	1637.01
3	-315.84	-110.58	-2.4437	1637.02
4	-313.45	-109.74	-2.3637	1637.06
5	-312.26	-109.33	-2.3637	1637.08
6	-310.46	-108.70	-2.2937	1637.11
7	-308.07	-107.87	-2.2137	1637.15
8	-305.08	-106.82	-2.1437	1637.20
9	-302.69	-105.99	-2.0637	1637.24
10	-300.30	-105.16	-2.0637	1637.28
11	-298.50	-104.53	-2.0637	1637.31
12	-296.11	-103.70	-2.0637	1637.35
13	-293.12	-102.65	-2.1437	1637.40
14	-291.33	-102.03	-2.2137	1637.43
15	-288.94	-101.20	-2.2137	1637.47
16	-287.14	-100.57	-2.2937	1637.50
17	-285.58	-100.16	-2.3637	1637.53
18	-284.02	-99.75	-2.5137	1637.56
19	-282.46	-99.35	-2.5937	1637.59
20	-280.38	-98.80	-2.7437	1637.63
21	-278.30	-98.26	-2.8137	1637.67
22	-275.18	-97.44	-2.9637	1637.73
23	-272.58	-96.76	-3.1137	1637.78
24	-270.50	-96.22	-3.1937	1637.82
25	-269.46	-95.95	-3.2637	1637.84
26	-266.86	-95.27	-3.3437	1637.89
27	-264.26	-94.59	-3.4137	1637.94
28	-262.18	-94.05	-3.4937	1637.98
29	-261.66	-93.91	-3.4937	1637.99
30	-261.14	-93.78	-3.4937	1638.00
31	-260.57	-93.62	-3.4937	1638.01
32	-259.42	-93.31	-3.4937	1638.03
33	-257.12	-92.68	-3.4937	1638.07
34	-255.40	-92.22	-3.4937	1638.10
35	-251.37	-91.12	-3.3437	1638.17
36	-250.22	-90.81	-3.2637	1638.19
37	-246.20	-89.72	-2.9637	1638.26
38	-244.47	-89.25	-2.9637	1638.29
39	-241.60	-88.47	-2.9637	1638.34
40	-239.87	-88.01	-2.8937	1638.37
41	-237.57	-87.38	-2.7437	1638.41
42	-237.00	-87.23	-2.6637	1638.42
43	-235.27	-86.76	-2.5137	1638.45
44	-233.55	-86.29	-2.4437	1638.48
45	-231.81	-85.82	-2.5137	1638.51
46	-231.23	-85.67	-2.5937	1638.52
47	-230.06	-85.36	-2.6637	1638.54
48	-229.47	-85.20	-2.6637	1638.55
49	-227.72	-84.73	-2.5137	1638.58
50	-226.55	-84.42	-2.4437	1638.60
51	-224.79	-83.96	-2.4437	1638.63
52	-221.87	-83.18	-2.4437	1638.68
53	-218.36	-82.24	-2.3637	1638.74
54	-214.85	-81.31	-2.2137	1638.80
55	-212.51	-80.69	-2.0637	1638.84
56	-210.17	-80.07	-1.9937	1638.88

57	-207.24	-79.29	-1.8437	1638.93
58	-204.90	-78.66	-1.6937	1638.97
59	-203.14	-78.20	-1.6137	1639.00
60	-202.56	-78.04	-1.5437	1639.01
61	-201.97	-77.89	-1.4637	1639.02
62	-200.84	-77.57	-1.3937	1639.04
63	-199.22	-77.09	-1.3137	1639.07
64	-192.77	-75.17	-1.0937	1639.19
65	-190.62	-74.53	-1.0937	1639.23
66	-189.01	-74.06	-1.1637	1639.26
67	-187.94	-73.74	-1.2437	1639.28
68	-186.86	-73.42	-1.2437	1639.30
69	-184.18	-72.62	-1.3937	1639.35
70	-182.56	-72.14	-1.4637	1639.38
71	-180.95	-71.66	-1.6137	1639.41
72	-179.88	-71.34	-1.7637	1639.43
73	-178.80	-71.02	-1.9137	1639.45
74	-177.19	-70.54	-1.9937	1639.48
75	-174.99	-69.98	-2.0637	1639.52
76	-173.87	-69.74	-2.0637	1639.54
77	-172.19	-69.38	-2.0637	1639.57
78	-169.38	-68.79	-1.9937	1639.62
79	-167.70	-68.43	-1.9937	1639.65
80	-166.01	-68.08	-1.9137	1639.68
81	-163.21	-67.48	-1.8437	1639.73
82	-161.52	-67.12	-1.7637	1639.76
83	-159.28	-66.65	-1.6137	1639.80
84	-156.47	-66.05	-1.5437	1639.85
85	-154.23	-65.58	-1.3937	1639.89
86	-151.98	-65.10	-1.2437	1639.93
87	-149.18	-64.50	-1.0937	1639.98
88	-147.54	-64.13	-0.9437	1640.01
89	-145.47	-63.59	-0.8637	1640.05
90	-143.41	-63.05	-0.7137	1640.09
91	-142.37	-62.78	-0.7137	1640.11
92	-140.82	-62.37	-0.7137	1640.16
93	-139.79	-62.10	-0.7137	1640.19
94	-138.24	-61.69	-0.6437	1640.21
95	-137.21	-61.42	-0.6437	1640.25
96	-135.14	-60.88	-0.7137	1640.29
97	-133.07	-60.34	-0.7837	1640.34
98	-130.49	-59.66	-0.8637	1640.36
99	-122.23	-57.50	-0.7137	1640.50
100	-121.71	-57.36	-0.7137	1640.51

KOHLER-ANDRAE STATE PARK: SHORE PARALLEL LINE 3 (Offshore)

19 February 1990 1542 to 1558 (CST)				
PT. #	X (m)	Y (m)	Z (m)	TIME COMMENTS
454	-110.845	-80.284	-0.457	154346 Parallel to the shore line: manual propulsion
455	-111.756	-72.674	-0.549	154420
456	-112.237	-60.089	-0.365	154500
459	-112.534	-17.623	-0.457	154704
457	-112.825	-45.125	-0.488	154540
458	-115.044	-31.208	-0.549	154622
466	-120.585	58.125	-0.335	155220
470	-121.361	102.381	-0.305	155633
460	-121.891	-12.426	-0.731	154749
468	-122.286	75.048	-0.395	155345
469	-122.728	87.013	-0.427	155430
461	-122.783	2.407	-0.488	154840
462	-122.071	14.487	-0.579	154935
471	-123.525	118.630	-0.549	155730
464	-123.780	37.834	-0.427	155100
465	-123.930	51.984	-0.671	155149

KOHLE-ANDRAE STATE PARK: ICE SURFACE OF SOUTH LINE 1			
PT. #	X (m)	Y (m)	Z (m)
66	-77.578	-0.676	1.255
65	-77.800	-0.640	0.666
64	-79.125	-0.665	0.634
63	-79.477	-0.726	0.220
62	-80.802	-0.790	0.132
61	-83.684	-0.805	0.252
60	-85.750	-0.867	0.181
59	-87.884	-0.699	0.235
58	-89.311	-0.799	0.067
57	-101.129	-0.981	0.110
56	-107.158	-1.020	0.269
55	-110.750	-0.432	0.249
54	-112.638	-0.480	0.158
53	-115.643	-1.193	0.168
52	-117.350	-1.570	0.380
51	-118.630	-1.560	0.918
50	-119.597	-1.983	0.593

19 February 1990 1355 to 1410 (CST)
TIME COMMENTS
ice/shore edge

KOHLE-ANDRAE STATE PARK: ICE SURFACE OF SOUTH LINE 2			
PT. #	X (m)	Y (m)	Z (m)
372	-72.781	49.667	0.813
371	-74.153	49.441	0.503
370	-76.491	49.411	0.432
368	-80.154	48.892	0.315
369	-80.211	48.944	0.310
367	-82.559	48.912	0.341
366	-84.225	48.770	0.171
365	-86.707	48.266	0.082
364	-94.488	49.288	0.136
363	-101.692	48.617	0.067
362	-110.057	47.914	0.140
361	-112.723	47.958	0.241
360	-114.654	47.872	0.979
359	-116.043	48.199	0.313
358	-118.060	48.015	0.532
357	-119.733	47.953	0.640
356	-121.357	47.953	0.289

19 February 1990 1440 to 1455 (CST)
TIME COMMENTS

KOHLE-ANDRAE STATE PARK: ICE SURFACE OF NORTH LINE 2			
PT. #	X (m)	Y (m)	Z (m)
463	-124.522	28.234	-0.640
467	-124.572	63.688	-0.488
19 February 1990 1305 to 1320 (CST)			
221	-67.865	-50.144	0.777
220	-69.159	-50.402	0.645
219	-71.000	-50.306	0.989
218	-72.840	-50.315	1.043
217	-75.325	-50.652	1.048
216	-76.104	-50.659	0.623
215	-77.732	-50.644	0.463
214	-78.491	-51.058	0.235
213	-79.950	-51.083	0.204
212	-81.067	-51.072	0.359
211	-83.623	-51.142	0.325
210	-85.715	-51.306	0.181
209	-88.175	-51.409	0.197
208	-90.495	-51.601	0.240
207	-92.021	-51.655	0.407
206	-93.951	-51.894	0.718
205	-94.750	-51.890	0.224
204	-96.787	-51.985	0.279
203	-99.054	-52.157	0.367
202	-100.964	-52.201	0.247
201	-103.063	-52.364	0.164
200	-104.818	-52.423	0.185
199	-105.886	-52.678	0.404
198	-107.652	-52.877	0.600
197	-109.268	-53.102	1.101
196	-110.095	-53.293	0.714

19 February 1990 1225 to 1235 (CST)
TIME COMMENTS
ice/shore edge

KOHLE-ANDRAE STATE PARK: ICE SURFACE OF NORTH LINE 1			
PT. #	X (m)	Y (m)	Z (m)
143	-68.950	-25.479	0.796
142	-70.921	-25.464	0.826
141	-72.687	-25.518	0.955
140	-74.389	-25.480	0.989
139	-76.639	-25.676	1.151
138	-77.120	-25.723	0.696
137	-80.677	-26.313	0.598
136	-81.752	-26.328	0.278
135	-84.368	-26.453	0.245
134	-86.902	-26.493	0.354
133	-88.740	-26.661	0.306
132	-90.659	-26.751	0.332
131	-93.235	-27.052	0.253
130	-95.110	-27.004	0.427
129	-98.306	-26.992	0.188
128	-101.206	-27.427	0.414
127	-103.920	-27.747	0.552
126	-105.652	-27.986	0.512
125	-107.806	-28.254	0.680
124	-110.202	-28.354	0.701
123	-111.926	-28.469	0.562
122	-113.037	-28.317	0.395

19 February 1990 1145 to 1155 (CST)
TIME COMMENTS
ice/shore edge

PROFILE DATA: GILLSON BEACH PARK, WILMETTE, ILLINOIS

Latitude/Longitude (UTM): 42°04'52"N/87°41'13"W
(465885N/044322E)

Date: April 22, 1990 (Offshore lines)

April 20, 1990 (Onshore lines)

Time: April 22: 0957 - 1233 CDT

April 20: 1310 - 1728 CDT

Location: See attached sketch in December, 1989 data - The survey was run at the central portion of Gillson Beach. The Main Line (ML) extends from a black mark on the curb on the northeast side of the concession stand (back marker) through the center light of five lightposts (front marker) at a 030° (0° declination) bearing. A line on this bearing perpendicularly bisects the shoreline. "USGS" is printed on the bottom of the light post.

Horizontal Control: Twelve profile lines were surveyed parallel to the center line. Lines North Line 1 to 6 (NL1, NL2, ...) were spaced 15 meters apart with NL1 being most proximal to the Main Line. The South Lines were identically set up.

Vertical Control: Elevations (z) reflect the elevation above Low Water Datum, 1955 (175.81m). The front reference marker was tied into this datum by surveying the bench marks M-26 and M-27 on the harbor entrance jettys just south of Gillson Beach next to the Coast Guard Building. It should be noted that these bench marks are correlated to City of Chicago Datum, which is 0.453 m below Low Water Datum. The front marker is the reference point of this survey grid and was surveyed to be 2.838 meters.

Notes: No offshore information for South Line 3 is given due to an, as yet, unexplainable error.

GILLSON STATE BEACH, WILMETTE, ILLINOIS
Reference Point Elevation = 2.838m
Surveying Crew: Tom Reiss & John Haines

NORTH LINE 6 (MERGED ON- & OFFSHORE PROFILES)
20 April 1990 1355 to 1441 (CDT) (ONSHORE)
22 April 1990 1226 to 1233 (CDT) (OFFSHORE)

Average offset = -0.456335m

PT. # X (m) Y (m) Z (m) TIME COMMENTS

82	52.078	-93.320	2.627	1231.46
83	50.543	-92.679	2.336	1231.45
84	41.914	-92.146	2.468	1231.44
85	33.548	-91.796	2.403	1231.43
86	24.943	-91.372	2.331	1231.42
87	20.299	-91.106	2.416	1231.41
88	12.751	-90.878	2.791	1231.40
89	7.702	-90.898	3.047	1231.39
90	-0.953	-90.631	2.714	1231.38
91	-10.424	-90.058	2.399	1231.37
92	-20.171	-89.924	1.810	1231.36
93	-29.073	-89.817	1.614	1231.35
94	-37.614	-89.526	1.039	1231.34
95	-38.811	-89.609	0.958	1231.33
96	-43.368	-89.544	0.377	1231.32
97	-46.558	-89.309	-0.123	1231.31
98	-53.792	-89.166	-0.264	1231.30
99	-59.215	-89.096	-0.110	1231.29
100	-63.400	-88.953	-0.102	1231.28
101	-68.273	-88.843	-0.219	1231.27
102	-76.151	-88.557	-0.381	1231.26
103	-83.253	-88.328	-0.568	1231.25
104	-90.938	-88.095	-0.773	1231.24
105	-99.329	-87.883	-0.603	1231.23
106	-105.599	-87.705	-0.511	1231.22
107	-111.310	-87.550	-0.703	1231.21
108	-112.280	-87.410	-0.753	1231.20
109	-113.260	-87.270	-0.783	1231.19
110	-114.230	-87.130	-0.833	1231.18
111	-115.200	-86.990	-0.853	1231.17
112	-116.170	-86.850	-0.933	1231.16
113	-117.140	-86.710	-0.983	1231.15
114	-118.110	-86.570	-1.003	1231.14
115	-119.090	-86.430	-1.083	1231.13
116	-120.060	-86.290	-1.153	1231.12
117	-121.030	-86.150	-1.233	1231.11
118	-122.000	-86.010	-1.303	1231.10
119	-122.970	-85.870	-1.383	1231.09
120	-123.940	-85.730	-1.453	1231.08
121	-124.910	-85.590	-1.533	1231.07
122	-125.880	-85.450	-1.603	1231.06
123	-126.850	-85.310	-1.683	1231.05
124	-127.820	-85.170	-1.753	1231.04
125	-128.790	-85.030	-1.833	1231.03
126	-129.760	-84.890	-1.913	1231.02
127	-130.730	-84.750	-2.083	1231.01
128	-131.660	-84.610	-2.263	1231.00
129	-132.600	-84.470	-2.403	1230.99
130	-133.530	-84.330	-2.403	1230.98
131	-134.460	-84.190	-2.403	1230.97
132	-135.390	-84.050	-2.403	1230.96
133	-136.330	-83.910	-2.403	1230.95
134	-137.260	-83.770	-2.403	1230.94
135	-138.190	-83.630	-2.403	1230.93
136	-139.130	-83.490	-2.483	1230.92
137	-140.060	-83.350	-2.483	1230.91
138	-140.990	-83.210	-2.503	1230.90
139	-141.920	-83.070	-2.553	1230.89
140	-142.860	-82.930	-2.553	1230.88
141	-143.790	-82.790	-2.553	1230.87
142	-144.720	-82.650	-2.553	1230.86
143	-145.660	-82.510	-2.553	1230.85
144	-146.590	-82.370	-2.553	1230.84
145	-147.520	-82.230	-2.633	1230.83
146	-148.450	-82.090	-2.633	1230.82
147	-149.390	-81.950	-2.643	1230.81
148	-150.320	-81.810	-2.683	1230.80
149	-151.250	-81.670	-2.703	1230.79
150	-152.190	-81.530	-2.703	1230.78
151	-153.120	-81.390	-2.703	1230.77
152	-154.050	-81.250	-2.703	1230.76
153	-154.980	-81.110	-2.703	1230.75
154	-155.920	-80.970	-2.703	1230.74
155	-156.850	-80.830	-2.733	1230.73
156	-157.780	-80.690	-2.783	1230.72
157	-158.710	-80.550	-2.783	1230.71
158	-159.650	-80.410	-2.783	1230.70
159	-160.580	-80.270	-2.783	1230.69
160	-161.510	-80.130	-2.783	1230.68
161	-162.450	-80.000	-2.783	1230.67
162	-163.380	-79.860	-2.783	1230.66
163	-164.310	-79.720	-2.783	1230.65
164	-165.240	-79.580	-2.783	1230.64
165	-166.180	-79.440	-2.803	1230.63
166	-167.110	-79.300	-2.853	1230.62
167	-168.040	-79.160	-2.853	1230.61
168	-168.980	-79.020	-2.853	1230.60
169	-169.910	-78.880	-2.853	1230.59
170	-170.840	-78.740	-2.853	1230.58
171	-171.770	-78.600	-2.853	1230.57
172	-172.710	-78.460	-2.853	1230.56
173	-173.640	-78.320	-2.843	1230.55
174	-174.570	-78.180	-2.803	1230.54
175	-175.510	-78.040	-2.783	1230.53
176	-176.440	-77.900	-2.783	1230.52
177	-177.370	-77.760	-2.783	1230.51
178	-178.300	-77.620	-2.813	1230.50
179	-179.240	-77.480	-2.853	1230.49
180	-180.170	-77.340	-2.883	1230.48
181	-181.100	-77.200	-2.933	1230.47
182	-182.030	-77.060	-2.933	1230.46
183	-182.970	-76.920	-2.933	1230.45
184	-183.900	-76.780	-2.893	1230.44
185	-184.830	-76.640	-2.853	1230.43
186	-185.770	-76.500	-2.853	1230.42
187	-186.700	-76.360	-2.853	1230.41
188	-187.630	-76.220	-2.853	1230.40
189	-188.560	-76.080	-2.853	1230.39
190	-189.500	-75.940	-2.853	1230.38
191	-190.430	-75.800	-2.853	1230.37
192	-191.360	-75.660	-2.823	1230.36
193	-192.300	-75.520	-2.783	1230.35
194	-193.230	-75.380	-2.743	1230.34
195	-194.160	-75.240	-2.703	1230.33
196	-195.090	-75.100	-2.703	1230.32
197	-196.030	-74.960	-2.703	1230.31
198	-196.960	-74.820	-2.703	1230.30
199	-197.890	-74.680	-2.703	1230.29
200	-198.830	-74.540	-2.703	1230.28
201	-199.760	-74.400	-2.673	1230.27
202	-200.690	-74.260	-2.563	1230.26
203	-201.620	-74.120	-2.483	1230.25
204	-202.560	-73.980	-2.443	1230.24

waterline

586	-203.490	-95.860	-2.373	1230.80
585	-204.420	-95.860	-2.293	1230.79
584	-205.350	-95.870	-2.253	1230.78
583	-206.290	-95.870	-2.223	1230.77
582	-207.220	-95.870	-2.183	1230.76
581	-208.150	-95.870	-2.143	1230.75
580	-209.090	-95.870	-2.073	1230.74
579	-210.020	-95.870	-2.033	1230.73
578	-210.950	-95.880	-1.993	1230.72
577	-211.880	-95.880	-1.953	1230.71
576	-212.820	-95.880	-1.923	1230.70
575	-213.750	-95.880	-1.883	1230.69
574	-214.680	-95.880	-1.843	1230.68
573	-215.620	-95.880	-1.803	1230.67
572	-216.550	-95.890	-1.803	1230.66
571	-217.480	-95.890	-1.803	1230.65
570	-218.410	-95.890	-1.803	1230.64
569	-219.350	-95.890	-1.803	1230.63
568	-220.280	-95.890	-1.803	1230.62
567	-221.210	-95.890	-1.833	1230.61
566	-222.150	-95.900	-1.883	1230.60
565	-223.080	-95.900	-1.883	1230.59
564	-224.010	-95.900	-1.883	1230.58
563	-224.940	-95.900	-1.883	1230.57
562	-225.880	-95.900	-1.913	1230.56
561	-226.810	-95.900	-1.953	1230.55
560	-227.740	-95.910	-1.953	1230.54
559	-228.670	-95.910	-1.983	1230.53
558	-229.610	-95.910	-2.033	1230.52
557	-230.540	-95.910	-2.033	1230.51
556	-231.470	-95.910	-2.033	1230.50
555	-232.390	-95.980	-2.043	1230.49
554	-233.310	-96.050	-2.083	1230.48
553	-234.230	-96.120	-2.143	1230.47
552	-235.150	-96.190	-2.183	1230.46
551	-236.070	-96.260	-2.183	1230.45
550	-236.990	-96.330	-2.213	1230.44
549	-237.910	-96.400	-2.253	1230.43
548	-238.830	-96.470	-2.253	1230.42
547	-239.750	-96.540	-2.293	1230.41
546	-240.670	-96.610	-2.333	1230.40
545	-241.590	-96.680	-2.333	1230.39
544	-242.510	-96.750	-2.363	1230.38
543	-243.430	-96.820	-2.403	1230.37
542	-244.350	-96.890	-2.403	1230.36
541	-245.270	-96.960	-2.443	1230.35
540	-246.190	-97.030	-2.483	1230.34
539	-247.110	-97.100	-2.493	1230.33
538	-248.030	-97.170	-2.513	1230.32
537	-248.950	-97.240	-2.543	1230.31
536	-249.870	-97.310	-2.553	1230.30
535	-250.800	-97.380	-2.573	1230.29
534	-251.720	-97.450	-2.613	1230.28
533	-252.640	-97.520	-2.633	1230.27
532	-253.560	-97.590	-2.643	1230.26
531	-254.480	-97.660	-2.683	1230.25
530	-255.400	-97.730	-2.703	1230.24
529	-256.320	-97.800	-2.703	1230.23
528	-257.240	-97.870	-2.703	1230.22
527	-258.160	-97.940	-2.743	1230.21
526	-259.080	-98.010	-2.793	1230.20
525	-260.000	-98.080	-2.833	1230.19
524	-260.920	-98.150	-2.853	1230.18
523	-261.840	-98.220	-2.893	1230.17
522	-262.760	-98.290	-2.933	1230.16
521	-263.680	-98.360	-2.933	1230.15
520	-264.600	-98.430	-2.933	1230.14
519	-265.520	-98.500	-3.063	1230.13
518	-266.440	-98.570	-3.003	1230.12
517	-267.360	-98.640	-3.003	1230.11
516	-268.280	-98.710	-3.043	1230.10
515	-269.200	-98.780	-3.083	1230.09
514	-270.120	-98.850	-3.083	1230.08
513	-271.040	-98.920	-3.083	1230.06
512	-272.880	-99.060	-3.113	1230.05
511	-273.800	-99.130	-3.153	1230.04
510	-274.720	-99.200	-3.153	1230.03
509	-275.640	-99.270	-3.173	1230.02
508	-276.560	-99.340	-3.213	1230.01
507	-277.480	-99.410	-3.233	1230.00
506	-278.360	-99.510	-3.233	1229.99
505	-279.250	-99.620	-3.243	1229.98
504	-280.130	-99.720	-3.283	1229.97
503	-281.010	-99.830	-3.303	1229.96
502	-281.900	-99.940	-3.303	1229.95
501	-282.780	-100.040	-3.343	1229.94
500	-283.670	-100.150	-3.383	1229.93
499	-284.550	-100.250	-3.383	1229.92
498	-285.440	-100.360	-3.413	1229.91
497	-286.320	-100.470	-3.453	1229.90
496	-287.200	-100.570	-3.453	1229.89
495	-288.090	-100.680	-3.453	1229.88
494	-288.970	-100.780	-3.473	1229.87
493	-289.860	-100.890	-3.513	1229.86
492	-290.740	-101.000	-3.533	1229.85
491	-291.630	-101.100	-3.533	1229.84
490	-292.510	-101.210	-3.533	1229.83
489	-293.390	-101.310	-3.533	1229.82
488	-294.280	-101.420	-3.533	1229.81
487	-295.160	-101.530	-3.533	1229.80
486	-296.050	-101.630	-3.553	1229.79
485	-296.930	-101.740	-3.583	1229.78
484	-297.810	-101.840	-3.603	1229.77
483	-298.700	-101.950	-3.603	1229.76
482	-299.580	-102.060	-3.603	1229.75
481	-300.470	-102.160	-3.623	1229.74
480	-301.350	-102.270	-3.663	1229.73
479	-302.240	-102.370	-3.683	1229.72
478	-303.120	-102.480	-3.683	1229.71
477	-304.000	-102.580	-3.723	1229.70
476	-304.890	-102.690	-3.753	1229.69
475	-305.770	-102.800	-3.753	1229.68
474	-306.660	-102.900	-3.753	1229.67
473	-307.540	-103.010	-3.793	1229.66
472	-308.430	-103.110	-3.833	1229.65
471	-309.310	-103.220	-3.833	1229.64
470	-310.210	-103.290	-3.833	1229.63
469	-311.130	-103.300	-3.833	1229.62
468	-312.050	-103.310	-3.833	1229.61
467	-312.970	-103.320	-3.873	1229.60
466	-313.890	-103.330	-3.903	1229.59
465	-314.810	-103.340	-3.903	1229.58
464	-315.730	-103.350	-3.903	1229.57
463	-316.650	-103.360	-3.903	1229.56
462	-317.570	-103.370	-3.903	1229.55
461	-318.490	-103.380	-3.903	1229.54
460	-319.410	-103.390	-3.923	1229.53
459	-320.330	-103.400	-3.963	1229.52
458	-321.250	-103.410	-3.983	1229.51
457	-322.170	-103.420	-4.023	1229.50
456	-323.090	-103.430	-4.053	1229.49
455	-324.010	-103.440	-4.053	1229.48

388	-385.580	-103.570	-4.583	1228.81
387	-386.500	-103.560	-4.583	1228.80
386	-387.420	-103.540	-4.623	1228.79
385	-388.330	-103.520	-4.653	1228.78
384	-389.250	-103.510	-4.653	1228.77
383	-390.170	-103.490	-4.653	1228.76
382	-391.080	-103.470	-4.653	1228.75
381	-392.000	-103.460	-4.653	1228.74
380	-392.920	-103.440	-4.653	1228.73
379	-393.830	-103.420	-4.653	1228.72
378	-394.750	-103.400	-4.673	1228.71
377	-395.670	-103.390	-4.713	1228.70
376	-396.580	-103.370	-4.733	1228.69
375	-397.500	-103.350	-4.733	1228.68
374	-398.410	-103.340	-4.733	1228.67
373	-399.330	-103.320	-4.733	1228.66
372	-400.250	-103.300	-4.733	1228.65
371	-401.160	-103.290	-4.733	1228.64
370	-402.080	-103.270	-4.733	1228.63
369	-403.000	-103.250	-4.733	1228.62
368	-403.910	-103.240	-4.793	1228.61
367	-404.830	-103.220	-4.803	1228.60
366	-405.750	-103.200	-4.803	1228.59
365	-406.660	-103.190	-4.803	1228.58
364	-407.580	-103.170	-4.853	1228.57
363	-408.500	-103.150	-4.883	1228.56
362	-409.410	-103.140	-4.883	1228.55
361	-410.330	-103.120	-4.883	1228.54
360	-411.250	-103.100	-4.883	1228.53
359	-412.160	-103.080	-4.883	1228.52
358	-413.080	-103.070	-4.883	1228.51
357	-414.000	-103.050	-4.883	1228.50
356	-414.930	-103.050	-4.883	1228.49
355	-415.860	-103.050	-4.883	1228.48
354	-416.790	-103.050	-4.883	1228.47
353	-417.720	-103.040	-4.883	1228.46
352	-418.650	-103.040	-4.883	1228.45
351	-419.580	-103.040	-4.883	1228.44
350	-420.510	-103.040	-4.923	1228.43
349	-421.450	-103.040	-4.953	1228.42
348	-422.380	-103.040	-4.953	1228.41
347	-423.310	-103.030	-4.953	1228.40
346	-424.240	-103.030	-4.953	1228.39
345	-425.170	-103.030	-4.953	1228.38
344	-426.100	-103.030	-4.983	1228.37
343	-427.030	-103.030	-5.013	1228.36
342	-427.960	-103.030	-5.033	1228.35
341	-428.900	-103.020	-5.033	1228.34
340	-429.830	-103.020	-5.033	1228.33
339	-430.760	-103.020	-5.033	1228.32
338	-431.690	-103.020	-5.033	1228.31
337	-432.620	-103.020	-5.033	1228.30
336	-433.550	-103.020	-5.033	1228.29
335	-434.480	-103.010	-5.033	1228.28
334	-435.410	-103.010	-5.033	1228.27
333	-436.350	-103.010	-5.033	1228.26
332	-437.280	-103.010	-5.033	1228.25
331	-438.210	-103.010	-5.033	1228.24
330	-439.140	-103.010	-5.083	1228.23
329	-440.070	-103.010	-5.103	1228.22
328	-441.000	-103.000	-5.103	1228.21
327	-441.930	-103.000	-5.103	1228.20
326	-442.860	-103.000	-5.103	1228.19
325	-443.800	-103.000	-5.103	1228.18
324	-444.730	-103.000	-5.103	1228.17
323	-445.660	-103.000	-5.103	1228.16

454	-324.930	-103.450	-4.053	1229.47
453	-325.850	-103.460	-4.053	1229.46
452	-326.770	-103.470	-4.053	1229.45
451	-327.690	-103.470	-4.053	1229.44
450	-328.610	-103.480	-4.053	1229.43
449	-329.530	-103.490	-4.053	1229.42
448	-330.450	-103.500	-4.053	1229.41
447	-331.370	-103.510	-4.053	1229.40
446	-332.290	-103.520	-4.093	1229.39
445	-333.210	-103.530	-4.133	1229.38
444	-334.130	-103.540	-4.133	1229.37
443	-335.050	-103.550	-4.133	1229.36
442	-335.970	-103.560	-4.133	1229.35
441	-336.890	-103.570	-4.133	1229.34
440	-337.810	-103.580	-4.133	1229.33
439	-338.730	-103.590	-4.133	1229.32
438	-339.650	-103.600	-4.173	1229.31
437	-340.570	-103.610	-4.203	1229.30
436	-341.490	-103.620	-4.203	1229.29
435	-342.410	-103.630	-4.203	1229.28
434	-343.330	-103.640	-4.203	1229.27
433	-344.250	-103.650	-4.203	1229.26
432	-345.170	-103.660	-4.203	1229.25
431	-346.090	-103.660	-4.223	1229.24
430	-347.010	-103.670	-4.263	1229.23
429	-347.930	-103.680	-4.283	1229.22
428	-348.850	-103.690	-4.283	1229.21
427	-349.770	-103.700	-4.283	1229.20
426	-350.690	-103.710	-4.283	1229.19
425	-351.610	-103.720	-4.283	1229.18
424	-352.530	-103.730	-4.283	1229.17
423	-353.450	-103.740	-4.283	1229.16
422	-354.370	-103.750	-4.283	1229.15
421	-355.290	-103.760	-4.283	1229.14
420	-356.210	-103.770	-4.323	1229.13
419	-357.130	-103.780	-4.353	1229.12
418	-358.050	-103.790	-4.353	1229.11
417	-358.970	-103.800	-4.353	1229.10
416	-359.890	-103.810	-4.373	1229.09
415	-360.810	-103.820	-4.413	1229.08
414	-361.730	-103.830	-4.433	1229.07
413	-362.650	-103.840	-4.433	1229.06
412	-363.570	-103.850	-4.433	1229.05
411	-364.490	-103.850	-4.433	1229.04
410	-365.410	-103.860	-4.433	1229.03
409	-366.330	-103.870	-4.433	1229.02
408	-367.250	-103.880	-4.433	1229.01
407	-368.170	-103.890	-4.433	1229.00
406	-369.090	-103.880	-4.433	1228.99
405	-370.000	-103.860	-4.433	1228.98
404	-370.920	-103.840	-4.433	1228.97
403	-371.840	-103.830	-4.433	1228.96
402	-372.750	-103.810	-4.433	1228.95
401	-373.670	-103.790	-4.473	1228.94
400	-374.590	-103.780	-4.503	1228.93
399	-375.500	-103.760	-4.503	1228.92
398	-376.420	-103.740	-4.503	1228.91
397	-377.340	-103.720	-4.503	1228.90
396	-378.250	-103.710	-4.503	1228.89
395	-379.170	-103.690	-4.503	1228.88
394	-380.090	-103.670	-4.523	1228.87
393	-381.000	-103.660	-4.523	1228.86
392	-381.920	-103.640	-4.563	1228.85
391	-382.830	-103.620	-4.583	1228.84
390	-383.750	-103.610	-4.583	1228.83
389	-384.670	-103.590	-4.583	1228.82

322	-446.590	-102.990	-5.103	1228.15	256	-507.880	-102.360	-5.583	1227.49
321	-447.520	-102.990	-5.103	1228.14	255	-508.850	-102.320	-5.623	1227.48
320	-448.450	-102.990	-5.153	1228.13	254	-509.820	-102.270	-5.573	1227.47
319	-449.380	-102.990	-5.183	1228.12	253	-510.790	-102.220	-5.553	1227.46
318	-450.310	-102.990	-5.183	1228.11	252	-511.760	-102.180	-5.613	1227.45
317	-451.250	-102.990	-5.183	1228.10	251	-512.730	-102.130	-5.633	1227.44
316	-452.180	-102.980	-5.183	1228.09	250	-513.710	-102.080	-5.633	1227.43
315	-453.110	-102.980	-5.183	1228.08	249	-514.680	-102.040	-5.633	1227.42
314	-454.040	-102.980	-5.183	1228.07	248	-515.650	-101.990	-5.633	1227.41
313	-454.970	-102.980	-5.183	1228.06	247	-516.620	-101.940	-5.633	1227.40
312	-455.900	-102.980	-5.183	1228.05	246	-517.590	-101.900	-5.633	1227.39
311	-456.830	-102.980	-5.183	1228.04	245	-518.560	-101.850	-5.683	1227.38
310	-457.760	-102.970	-5.183	1228.03	244	-519.530	-101.810	-5.703	1227.37
309	-458.700	-102.970	-5.203	1228.02	243	-520.510	-101.760	-5.703	1227.36
308	-459.630	-102.970	-5.243	1228.01	242	-521.480	-101.710	-5.703	1227.35
307	-460.560	-102.970	-5.253	1228.00	241	-522.450	-101.670	-5.703	1227.34
306	-461.480	-102.960	-5.253	1227.99	240	-523.420	-101.620	-5.763	1227.33
305	-462.410	-102.950	-5.253	1227.98	239	-524.390	-101.570	-5.783	1227.32
304	-463.340	-102.940	-5.253	1227.97	238	-525.360	-101.530	-5.783	1227.31
303	-464.270	-102.920	-5.253	1227.96	237	-526.340	-101.480	-5.783	1227.30
302	-465.190	-102.910	-5.253	1227.95	236	-527.310	-101.430	-5.783	1227.29
301	-466.120	-102.900	-5.253	1227.94	235	-528.280	-101.390	-5.783	1227.28
300	-467.050	-102.890	-5.253	1227.93	234	-529.250	-101.340	-5.783	1227.27
299	-467.970	-102.880	-5.253	1227.92	233	-530.220	-101.290	-5.833	1227.26
298	-468.900	-102.870	-5.283	1227.91	232	-531.190	-101.250	-5.853	1227.25
297	-469.830	-102.860	-5.313	1227.90	231	-532.160	-101.200	-5.853	1227.24
296	-470.750	-102.850	-5.333	1227.89	230	-533.140	-101.150	-5.853	1227.23
295	-471.680	-102.830	-5.333	1227.88	229	-534.110	-101.110	-5.853	1227.22
294	-472.610	-102.820	-5.333	1227.87	228	-535.080	-101.060	-5.853	1227.21
293	-473.540	-102.810	-5.333	1227.86	227	-536.050	-101.010	-5.913	1227.20
292	-474.460	-102.800	-5.333	1227.85	226	-537.020	-100.970	-5.933	1227.19
291	-475.390	-102.790	-5.333	1227.84	225	-537.990	-100.920	-5.933	1227.18
290	-476.320	-102.780	-5.333	1227.83	224	-538.970	-100.870	-5.933	1227.17
289	-477.240	-102.770	-5.333	1227.82	223	-539.940	-100.830	-5.933	1227.16
288	-478.170	-102.760	-5.333	1227.81	222	-540.910	-100.780	-5.933	1227.15
287	-479.100	-102.750	-5.333	1227.80	221	-541.880	-100.740	-5.933	1227.14
286	-480.020	-102.730	-5.383	1227.79	220	-542.850	-100.690	-5.933	1227.13
285	-480.950	-102.720	-5.403	1227.78	219	-543.820	-100.640	-5.993	1227.12
284	-481.880	-102.710	-5.403	1227.77	218	-544.790	-100.600	-6.003	1227.11
283	-482.800	-102.700	-5.403	1227.76	217	-545.770	-100.550	-6.003	1227.10
282	-483.730	-102.690	-5.403	1227.75	216	-546.740	-100.500	-6.003	1227.09
281	-484.660	-102.680	-5.403	1227.74	215	-547.710	-100.460	-6.063	1227.08
280	-485.590	-102.670	-5.403	1227.73	214	-548.680	-100.410	-6.083	1227.07
279	-486.510	-102.660	-5.403	1227.72	213	-549.650	-100.360	-6.083	1227.06
278	-487.440	-102.640	-5.403	1227.71	212	-550.620	-100.320	-6.083	1227.05
277	-488.370	-102.630	-5.463	1227.70	211	-551.590	-100.270	-6.083	1227.04
276	-489.290	-102.620	-5.483	1227.69	210	-552.570	-100.220	-6.083	1227.03
275	-490.220	-102.610	-5.483	1227.68	209	-553.540	-100.180	-6.083	1227.02
274	-491.150	-102.600	-5.483	1227.67	208	-554.510	-100.130	-6.083	1227.01
273	-492.070	-102.590	-5.483	1227.66	207	-555.480	-100.080	-6.113	1227.00
272	-493.000	-102.580	-5.483	1227.65	206	-556.440	-100.040	-6.143	1226.99
271	-493.930	-102.570	-5.483	1227.64	205	-557.400	-99.990	-6.153	1226.98
270	-494.850	-102.560	-5.483	1227.63	204	-558.350	-99.950	-6.153	1226.97
269	-495.780	-102.540	-5.483	1227.62	203	-559.310	-99.900	-6.153	1226.96
268	-496.710	-102.530	-5.483	1227.61	202	-560.270	-99.860	-6.153	1226.95
267	-497.640	-102.520	-5.483	1227.60	201	-561.220	-99.810	-6.153	1226.94
266	-498.560	-102.510	-5.483	1227.59	200	-562.180	-99.770	-6.213	1226.93
265	-499.490	-102.500	-5.483	1227.58	199	-563.140	-99.720	-6.233	1226.92
264	-500.420	-102.490	-5.483	1227.57	198	-564.100	-99.680	-6.233	1226.91
263	-501.340	-102.480	-5.483	1227.56	197	-565.050	-99.630	-6.233	1226.90
262	-502.270	-102.470	-5.533	1227.55	196	-566.010	-99.590	-6.293	1226.89
261	-503.200	-102.450	-5.553	1227.54	195	-566.970	-99.540	-6.303	1226.88
260	-504.120	-102.440	-5.553	1227.53	194	-567.920	-99.500	-6.303	1226.87
259	-505.050	-102.430	-5.553	1227.52	193	-568.880	-99.450	-6.303	1226.86
258	-505.980	-102.420	-5.553	1227.51	192	-569.840	-99.410	-6.363	1226.85
257	-506.910	-102.410	-5.553	1227.50	191	-570.790	-99.360	-6.383	1226.84

124	-636.410	-95.140	-6.603	1226.17
123	-637.410	-95.060	-6.603	1226.16
122	-638.410	-94.980	-6.603	1226.15
121	-639.420	-94.900	-6.733	1226.14
120	-640.420	-94.820	-6.623	1226.13
119	-641.420	-94.730	-6.603	1226.12
118	-642.420	-94.650	-6.603	1226.11
117	-643.420	-94.570	-6.603	1226.10
116	-644.430	-94.490	-6.673	1226.09
115	-645.430	-94.410	-6.813	1226.08
114	-646.430	-94.330	-6.693	1226.07
113	-647.430	-94.240	-6.613	1226.06
112	-648.440	-94.160	-6.533	1226.05
111	-649.440	-94.080	-6.463	1226.04
110	-650.440	-94.000	-6.453	1226.03
109	-651.440	-93.920	-6.523	1226.02
108	-652.440	-93.840	-6.593	1226.01
107	-653.450	-93.760	-6.673	1226.00
106	-654.430	-93.710	-6.683	1225.99
105	-655.410	-93.660	-6.613	1225.98
104	-656.390	-93.560	-6.603	1225.96
103	-657.360	-93.560	-6.603	1225.95
102	-658.340	-93.510	-6.673	1225.94
101	-659.320	-93.470	-6.613	1225.93
100	-660.300	-93.420	-6.603	1225.92
99	-661.280	-93.370	-6.673	1225.91
98	-662.260	-93.320	-6.683	1225.90
97	-663.240	-93.270	-6.683	1225.89
96	-664.220	-93.230	-6.613	1225.88
95	-665.200	-93.180	-6.673	1225.86
94	-666.180	-93.130	-6.813	1225.85
93	-667.160	-93.080	-6.833	1225.84
92	-668.140	-93.030	-6.763	1225.83
91	-669.120	-92.990	-6.893	1225.82
90	-670.100	-92.940	-6.903	1225.81
89	-671.080	-92.890	-6.833	1225.80
88	-672.060	-92.840	-6.833	1225.79
87	-673.040	-92.790	-6.763	1225.78
86	-674.010	-92.740	-6.833	1225.77
85	-674.990	-92.700	-6.813	1225.76
84	-675.970	-92.650	-6.833	1225.75
83	-676.950	-92.600	-6.833	1225.74
82	-677.930	-92.550	-6.833	1225.73
81	-678.910	-92.500	-6.893	1225.72
80	-679.890	-92.460	-6.903	1225.71
79	-680.870	-92.410	-6.973	1225.70
78	-681.850	-92.360	-6.983	1225.69
77	-682.830	-92.310	-6.983	1225.68
76	-683.810	-92.260	-6.843	1225.67
75	-684.790	-92.220	-6.763	1225.66
74	-685.770	-92.170	-6.753	1225.65
73	-686.750	-92.120	-6.823	1225.64
72	-687.730	-92.070	-6.833	1225.63
71	-688.710	-92.020	-6.833	1225.62
70	-689.680	-91.970	-6.833	1225.61
69	-690.660	-91.930	-6.903	1225.60
68	-691.640	-91.880	-6.833	1225.59
67	-692.620	-91.830	-6.833	1225.58
66	-693.600	-91.780	-6.833	1225.57
65	-694.580	-91.730	-6.683	1225.56
64	-695.560	-91.690	-6.683	1225.55
63	-696.540	-91.640	-6.823	1225.54
62	-697.520	-91.590	-6.833	1225.53
61	-698.500	-91.540	-6.833	1225.52
60	-699.480	-91.490	-6.833	
59	-700.460	-91.450	-6.833	

190	-571.750	-99.320	-6.383	1226.83
189	-572.710	-99.270	-6.383	1226.82
188	-573.670	-99.230	-6.443	1226.81
187	-574.620	-99.180	-6.453	1226.80
186	-575.580	-99.140	-6.453	1226.79
185	-576.540	-99.090	-6.453	1226.78
184	-577.490	-99.050	-6.453	1226.77
183	-578.450	-99.000	-6.453	1226.76
182	-579.410	-98.960	-6.513	1226.75
181	-580.370	-98.920	-6.533	1226.74
180	-581.320	-98.870	-6.533	1226.73
179	-582.280	-98.830	-6.533	1226.72
178	-583.240	-98.780	-6.593	1226.71
177	-584.190	-98.740	-6.603	1226.70
176	-585.150	-98.690	-6.603	1226.69
175	-586.110	-98.650	-6.603	1226.68
174	-587.070	-98.600	-6.603	1226.67
173	-588.020	-98.560	-6.603	1226.66
172	-588.980	-98.510	-6.603	1226.65
171	-589.940	-98.470	-6.663	1226.64
170	-590.890	-98.420	-6.683	1226.63
169	-591.850	-98.380	-6.683	1226.62
168	-592.810	-98.330	-6.683	1226.61
167	-593.770	-98.290	-6.683	1226.60
166	-594.720	-98.240	-6.743	1226.59
165	-595.680	-98.200	-6.753	1226.58
164	-596.640	-98.150	-6.753	1226.57
163	-597.590	-98.110	-6.753	1226.56
162	-598.550	-98.060	-6.753	1226.55
161	-599.510	-98.020	-6.813	1226.54
160	-600.470	-97.970	-6.833	1226.53
159	-601.420	-97.930	-6.833	1226.52
158	-602.380	-97.880	-6.833	1226.51
157	-603.340	-97.840	-6.833	1226.50
156	-604.300	-97.750	-6.893	1226.49
155	-605.340	-97.670	-6.903	1226.48
154	-606.340	-97.590	-6.963	1226.47
153	-607.350	-97.510	-6.983	1226.46
152	-608.350	-97.430	-6.983	1226.45
151	-609.350	-97.350	-6.913	1226.44
150	-610.350	-97.260	-6.713	1226.43
149	-611.350	-97.180	-6.683	1226.42
148	-612.360	-97.100	-6.743	1226.41
147	-613.360	-97.020	-6.943	1226.40
146	-614.360	-96.940	-7.043	1226.39
145	-615.360	-96.860	-7.053	1226.38
144	-616.370	-96.770	-6.993	1226.37
143	-617.370	-96.690	-7.043	1226.36
142	-618.370	-96.610	-6.993	1226.35
141	-619.370	-96.530	-6.913	1226.34
140	-620.370	-96.450	-6.903	1226.33
139	-621.380	-96.370	-6.843	1226.32
138	-622.380	-96.290	-6.763	1226.31
137	-623.380	-96.200	-6.823	1226.30
136	-624.380	-96.120	-6.963	1226.29
135	-625.390	-96.040	-6.983	1226.28
134	-626.390	-95.960	-6.913	1226.27
133	-627.390	-95.880	-6.873	1226.26
132	-628.390	-95.800	-6.833	1226.25
131	-629.390	-95.710	-6.893	1226.24
130	-630.400	-95.630	-6.843	1226.23
129	-631.400	-95.550	-6.693	1226.22
128	-632.400	-95.470	-6.683	1226.21
127	-633.400	-95.390	-6.683	1226.20
126	-634.410	-95.310	-6.683	1226.19
125	-635.410	-95.220	-6.613	1226.18

148	55.096	-74.696	2.241	
147	41.692	-74.637	2.290	
146	28.978	-74.724	2.232	
145	16.108	-74.951	2.228	
144	8.729	-74.669	2.135	
143	-0.229	-74.971	2.772	
142	-3.250	-74.778	2.928	
141	-11.292	-74.444	2.259	
140	-20.479	-74.399	1.620	
139	-30.126	-74.396	1.232	
138	-38.891	-74.651	0.832	
137	-45.172	-74.994	0.330	
136	-46.990	-74.315	-0.056	
135	-51.885	-74.357	-0.113	
134	-58.305	-74.279	-0.161	
133	-63.964	-74.237	-0.284	
132	-69.810	-74.070	-0.366	
131	-76.466	-74.075	-0.359	
130	-82.599	-74.291	-0.457	
129	-88.154	-74.044	-0.724	
128	-93.400	-75.120	-0.763	
127	-94.340	-75.160	-0.783	
126	-95.290	-75.190	-0.843	
125	-96.230	-75.230	-0.843	
124	-97.180	-75.270	-0.843	
123	-98.120	-75.300	-0.843	
122	-99.060	-75.340	-0.843	
121	-100.010	-75.380	-0.843	
120	-100.950	-75.410	-0.833	
119	-101.900	-75.450	-0.793	
118	-102.840	-75.490	-0.763	
117	-103.790	-75.520	-0.753	
116	-104.730	-75.560	-0.713	
115	-105.680	-75.600	-0.693	
114	-106.620	-75.630	-0.693	
113	-107.570	-75.670	-0.673	
112	-108.510	-75.710	-0.613	
111	-109.460	-75.740	-0.613	
110	-110.400	-75.780	-0.633	
109	-111.350	-75.820	-0.693	
108	-112.290	-75.850	-0.693	
107	-113.240	-75.890	-0.713	
106	-114.180	-75.930	-0.763	
105	-115.130	-75.960	-0.783	
104	-116.070	-76.000	-0.843	
103	-117.020	-76.040	-0.843	
102	-117.960	-76.070	-0.843	
101	-118.910	-76.110	-0.883	
100	-119.850	-76.150	-0.993	
99	-120.800	-76.180	-1.013	
98	-121.740	-76.220	-1.063	
97	-122.680	-76.260	-1.083	
96	-123.630	-76.290	-1.163	
95	-124.570	-76.330	-1.233	
94	-125.520	-76.370	-1.313	
93	-126.460	-76.400	-1.383	
92	-127.410	-76.440	-1.483	
91	-128.350	-76.480	-1.633	
90	-129.300	-76.510	-1.763	
89	-130.240	-76.550	-1.813	
88	-131.190	-76.590	-1.823	
87	-132.130	-76.620	-1.863	
86	-133.080	-76.660	-1.913	
85	-134.020	-76.700	-1.963	
84	-134.970	-76.730	-1.983	
83	-135.910	-76.770	-2.043	

waterline

1221.13
1221.12
1221.11
1221.10
1221.09
1221.08
1221.07
1221.06
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1220.74
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1220.72
1220.71
1220.70
1220.69
1220.68

58	-701.440	-91.400	-6.683	1225.51	
57	-702.420	-91.350	-6.603	1225.50	
56	-703.400	-91.300	-6.603	1225.49	
55	-704.380	-91.250	-6.673	1225.48	
54	-705.360	-91.200	-6.683	1225.47	
53	-706.330	-91.160	-6.683	1225.46	
52	-707.310	-91.110	-6.603	1225.45	
51	-708.290	-91.060	-6.463	1225.44	
50	-709.270	-91.010	-6.523	1225.43	
49	-710.250	-90.960	-6.533	1225.42	
48	-711.230	-90.920	-6.533	1225.41	
47	-712.210	-90.870	-6.453	1225.40	
46	-713.190	-90.820	-6.523	1225.39	
45	-714.170	-90.770	-6.603	1225.38	
44	-715.150	-90.720	-6.463	1225.37	
43	-716.130	-90.680	-6.243	1225.36	
42	-717.110	-90.630	-6.303	1225.35	
41	-718.090	-90.580	-6.443	1225.34	
40	-719.070	-90.530	-6.523	1225.33	
39	-720.050	-90.480	-6.603	1225.32	
38	-721.030	-90.430	-6.673	1225.31	
37	-722.010	-90.390	-6.603	1225.30	
36	-722.980	-90.340	-6.533	1225.29	
35	-723.960	-90.290	-6.453	1225.28	
34	-724.940	-90.240	-6.523	1225.27	
33	-725.920	-90.190	-6.533	1225.26	
32	-726.900	-90.150	-6.383	1225.25	
31	-727.880	-90.100	-6.163	1225.24	
30	-728.860	-90.050	-6.153	1225.23	
29	-729.840	-90.000	-6.223	1225.22	
28	-730.820	-89.950	-6.443	1225.21	
27	-731.800	-89.910	-6.453	1225.20	
26	-732.780	-89.860	-6.453	1225.19	
25	-733.760	-89.810	-6.453	1225.18	
24	-734.740	-89.760	-6.453	1225.17	
23	-735.720	-89.710	-6.603	1225.16	
22	-736.700	-89.660	-6.603	1225.15	
21	-737.680	-89.620	-6.533	1225.14	
20	-738.650	-89.570	-6.383	1225.13	
19	-739.630	-89.520	-6.383	1225.12	
18	-740.610	-89.470	-6.303	1225.11	
17	-741.590	-89.420	-6.233	1225.10	
16	-742.570	-89.380	-6.233	1225.09	
15	-743.550	-89.330	-6.153	1225.08	
14	-744.530	-89.280	-6.223	1225.07	
13	-745.510	-89.230	-6.303	1225.06	
12	-746.490	-89.180	-6.373	1225.05	
11	-747.470	-89.140	-6.303	1225.04	
10	-748.450	-89.090	-6.153	1225.03	
9	-749.430	-89.040	-6.083	1225.02	
8	-750.410	-88.990	-6.153	1225.01	
7	-751.390	-88.940	-6.153	1225.00	
6	-752.370	-88.890	-6.153	1224.99	
5	-753.350	-88.850	-6.153	1224.98	
4	-754.330	-88.800	-6.003	1224.97	
3	-755.300	-88.750	-6.003	1224.96	
2	-756.280	-88.700	-6.083	1224.95	
1	-757.260	-88.650	-6.083	1224.94	

NORTH LINE 5 (MERGED ON- & OFFSHORE PROFILES)
20 April 1990 1445 to 1517 (CDT) (ONSHORE)
22 April 1990 1216 to 1222 (CDT) (OFFSHORE)
Average offset = -0.466472m
PT # X (m) Y (m) Z (m) TIME COMMENTS
150 64.577 -74.664 2.369
149 62.781 -74.887 2.206

729	-136.860	-76.810	-2.063	1220.67	663	-199.210	-79.230	-2.313	1220.01
728	-137.800	-76.840	-2.113	1220.66	662	-200.160	-79.260	-2.233	1220.00
727	-138.750	-76.880	-2.113	1220.65	661	-201.140	-79.340	-2.163	1219.99
726	-139.690	-76.920	-2.133	1220.64	660	-202.130	-79.430	-2.113	1219.98
725	-140.640	-76.950	-2.193	1220.63	659	-203.110	-79.510	-2.083	1219.97
724	-141.580	-76.990	-2.213	1220.62	658	-204.100	-79.590	-2.043	1219.96
723	-142.530	-77.030	-2.283	1220.61	657	-205.080	-79.680	-2.043	1219.95
722	-143.470	-77.060	-2.343	1220.60	656	-206.070	-79.760	-2.013	1219.94
721	-144.420	-77.100	-2.363	1220.59	655	-207.050	-79.840	-1.933	1219.93
720	-145.360	-77.140	-2.413	1220.58	654	-208.040	-79.920	-1.893	1219.92
719	-146.310	-77.170	-2.413	1220.57	653	-209.020	-80.010	-1.863	1219.91
718	-147.250	-77.210	-2.433	1220.56	652	-210.010	-80.090	-1.813	1219.90
717	-148.190	-77.250	-2.493	1220.55	651	-211.990	-80.170	-1.813	1219.89
716	-149.140	-77.280	-2.493	1220.54	650	-211.980	-80.250	-1.783	1219.88
715	-150.080	-77.320	-2.493	1220.53	649	-212.960	-80.340	-1.743	1219.87
714	-151.030	-77.360	-2.493	1220.52	648	-213.950	-80.420	-1.743	1219.86
713	-151.970	-77.390	-2.463	1220.51	647	-214.930	-80.500	-1.743	1219.85
712	-152.920	-77.430	-2.413	1220.50	646	-215.920	-80.590	-1.743	1219.84
711	-153.860	-77.470	-2.413	1220.49	645	-216.900	-80.670	-1.743	1219.83
710	-154.810	-77.500	-2.393	1220.48	644	-217.890	-80.750	-1.753	1219.82
709	-155.750	-77.540	-2.343	1220.47	643	-218.870	-80.830	-1.753	1219.81
708	-156.700	-77.580	-2.343	1220.46	642	-219.860	-80.920	-1.793	1219.80
707	-157.640	-77.610	-2.363	1220.45	641	-220.840	-81.000	-1.813	1219.79
706	-158.590	-77.650	-2.413	1220.44	640	-221.820	-81.080	-1.813	1219.78
705	-159.530	-77.690	-2.413	1220.43	639	-222.810	-81.160	-1.823	1219.77
704	-160.480	-77.720	-2.413	1220.42	638	-223.790	-81.250	-1.863	1219.76
703	-161.420	-77.760	-2.433	1220.41	637	-224.780	-81.330	-1.893	1219.75
702	-162.370	-77.800	-2.493	1220.40	636	-225.760	-81.410	-1.893	1219.74
701	-163.310	-77.830	-2.493	1220.39	635	-226.750	-81.490	-1.893	1219.73
700	-164.260	-77.870	-2.513	1220.38	634	-227.730	-81.580	-1.913	1219.72
699	-165.200	-77.910	-2.563	1220.37	633	-228.720	-81.660	-1.913	1219.71
698	-166.150	-77.940	-2.563	1220.36	632	-229.700	-81.740	-1.963	1219.70
697	-167.090	-77.980	-2.563	1220.35	631	-230.690	-81.830	-1.993	1219.69
696	-168.040	-78.020	-2.583	1220.34	630	-231.670	-81.910	-2.043	1219.68
695	-168.980	-78.050	-2.643	1220.33	629	-232.660	-81.990	-2.043	1219.67
694	-169.930	-78.090	-2.643	1220.32	628	-233.640	-82.070	-2.053	1219.66
693	-170.870	-78.130	-2.643	1220.31	627	-234.630	-82.160	-2.093	1219.65
692	-171.810	-78.160	-2.643	1220.30	626	-235.610	-82.240	-2.113	1219.64
691	-172.760	-78.200	-2.643	1220.29	625	-236.600	-82.320	-2.133	1219.63
690	-173.700	-78.240	-2.643	1220.28	624	-237.580	-82.400	-2.163	1219.62
689	-174.650	-78.270	-2.643	1220.27	623	-238.570	-82.490	-2.213	1219.61
688	-175.590	-78.310	-2.643	1220.26	622	-239.550	-82.570	-2.263	1219.60
687	-176.540	-78.350	-2.643	1220.25	621	-240.540	-82.650	-2.293	1219.59
686	-177.480	-78.380	-2.613	1220.24	620	-241.520	-82.740	-2.343	1219.58
685	-178.430	-78.420	-2.563	1220.23	619	-242.510	-82.820	-2.343	1219.57
684	-179.370	-78.460	-2.563	1220.22	618	-243.490	-82.900	-2.343	1219.56
683	-180.320	-78.490	-2.563	1220.21	617	-244.470	-82.980	-2.343	1219.55
682	-181.260	-78.530	-2.563	1220.20	616	-245.460	-83.070	-2.373	1219.54
681	-182.210	-78.570	-2.563	1220.19	615	-246.440	-83.150	-2.413	1219.53
680	-183.150	-78.600	-2.563	1220.18	614	-247.430	-83.230	-2.433	1219.52
679	-184.100	-78.640	-2.563	1220.17	613	-248.410	-83.310	-2.463	1219.51
678	-185.040	-78.680	-2.563	1220.16	612	-249.400	-83.400	-2.493	1219.50
677	-185.990	-78.710	-2.533	1220.15	611	-250.370	-83.390	-2.523	1219.49
676	-186.930	-78.750	-2.513	1220.14	610	-251.340	-83.380	-2.563	1219.48
675	-187.880	-78.790	-2.533	1220.13	609	-252.310	-83.380	-2.563	1219.47
674	-188.820	-78.820	-2.493	1220.12	608	-253.280	-83.370	-2.593	1219.46
673	-189.770	-78.860	-2.493	1220.11	607	-254.250	-83.370	-2.643	1219.45
672	-190.710	-78.900	-2.493	1220.10	606	-255.220	-83.360	-2.653	1219.44
671	-191.660	-78.930	-2.493	1220.09	605	-256.190	-83.350	-2.693	1219.43
670	-192.600	-78.970	-2.493	1220.08	604	-257.160	-83.350	-2.713	1219.42
669	-193.550	-79.010	-2.463	1220.07	603	-258.130	-83.340	-2.713	1219.41
668	-194.490	-79.040	-2.413	1220.06	602	-259.100	-83.340	-2.743	1219.40
667	-195.430	-79.080	-2.413	1220.05	601	-260.070	-83.330	-2.823	1219.39
666	-196.380	-79.120	-2.413	1220.04	599	-261.040	-83.320	-2.863	1219.38
665	-197.320	-79.150	-2.383	1220.03	598	-262.010	-83.320	-2.863	1219.37
664	-198.270	-79.190	-2.343	1220.02		-262.980	-83.310	-2.863	1219.36

531	-326.890	-79.230	-3.873	1218.69
530	-327.820	-79.100	-3.913	1218.68
529	-328.760	-78.980	-3.913	1218.67
528	-329.690	-78.850	-3.913	1218.66
527	-330.630	-78.730	-3.913	1218.65
526	-331.560	-78.600	-3.913	1218.64
525	-332.500	-78.480	-3.933	1218.63
524	-333.430	-78.350	-3.973	1218.62
523	-334.370	-78.230	-3.993	1218.61
522	-335.300	-78.100	-3.993	1218.60
521	-336.240	-77.980	-3.993	1218.59
520	-337.170	-77.850	-3.993	1218.58
519	-338.110	-77.730	-3.993	1218.57
518	-339.040	-77.600	-4.023	1218.56
517	-339.980	-77.480	-4.063	1218.55
516	-340.910	-77.350	-4.063	1218.54
515	-341.850	-77.230	-4.063	1218.53
514	-342.780	-77.100	-4.083	1218.52
513	-344.650	-76.850	-4.123	1218.50
512	-344.650	-76.850	-4.143	1218.50
511	-346.580	-76.890	-4.143	1218.48
510	-347.540	-76.910	-4.143	1218.47
509	-348.500	-76.930	-4.143	1218.46
508	-349.470	-76.950	-4.143	1218.45
507	-350.430	-76.970	-4.143	1218.44
506	-351.390	-76.990	-4.143	1218.43
505	-352.350	-77.010	-4.143	1218.42
504	-353.320	-77.030	-4.173	1218.41
503	-354.280	-77.050	-4.213	1218.40
502	-355.240	-77.070	-4.213	1218.39
501	-356.200	-77.090	-4.213	1218.38
500	-357.170	-77.110	-4.213	1218.37
499	-358.130	-77.130	-4.213	1218.36
498	-359.090	-77.150	-4.253	1218.35
497	-360.060	-77.170	-4.293	1218.34
496	-361.020	-77.190	-4.293	1218.33
495	-361.980	-77.210	-4.293	1218.32
494	-362.940	-77.230	-4.293	1218.31
493	-363.910	-77.250	-4.293	1218.30
492	-364.870	-77.270	-4.323	1218.29
491	-365.830	-77.290	-4.363	1218.28
490	-366.790	-77.310	-4.363	1218.27
489	-367.760	-77.330	-4.363	1218.26
488	-368.720	-77.350	-4.363	1218.25
487	-369.680	-77.370	-4.363	1218.24
486	-370.640	-77.390	-4.363	1218.23
485	-371.610	-77.410	-4.363	1218.22
484	-372.570	-77.430	-4.363	1218.21
483	-373.530	-77.450	-4.363	1218.20
482	-374.500	-77.470	-4.363	1218.19
481	-375.460	-77.490	-4.363	1218.18
480	-376.420	-77.510	-4.383	1218.17
479	-377.380	-77.530	-4.423	1218.16
478	-378.350	-77.550	-4.443	1218.15
477	-379.310	-77.570	-4.443	1218.14
476	-380.270	-77.590	-4.443	1218.13
475	-381.230	-77.610	-4.483	1218.12
474	-382.200	-77.630	-4.513	1218.11
473	-383.160	-77.650	-4.513	1218.10
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471	-385.080	-77.690	-4.513	1218.08
470	-386.050	-77.710	-4.513	1218.07
469	-387.010	-77.730	-4.553	1218.06
468	-387.970	-77.750	-4.593	1218.05
467	-388.940	-77.770	-4.593	1218.04
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596	-264.920	-83.300	-2.913	1219.34
595	-265.890	-83.290	-2.943	1219.33
594	-266.860	-83.290	-2.943	1219.32
593	-267.830	-83.280	-2.953	1219.31
592	-268.800	-83.280	-2.993	1219.30
591	-269.770	-83.270	-3.013	1219.29
590	-270.740	-83.260	-3.013	1219.28
589	-271.710	-83.260	-3.013	1219.27
588	-272.680	-83.250	-3.013	1219.26
587	-273.650	-83.250	-3.043	1219.25
586	-274.620	-83.240	-3.093	1219.24
585	-275.590	-83.230	-3.103	1219.23
584	-276.560	-83.230	-3.143	1219.22
583	-277.530	-83.220	-3.163	1219.21
582	-278.500	-83.220	-3.163	1219.20
581	-279.470	-83.210	-3.163	1219.19
580	-280.440	-83.200	-3.193	1219.18
579	-281.410	-83.200	-3.243	1219.17
578	-282.380	-83.190	-3.243	1219.16
577	-283.350	-83.180	-3.253	1219.15
576	-284.320	-83.180	-3.293	1219.14
575	-285.290	-83.170	-3.313	1219.13
574	-286.260	-83.170	-3.313	1219.12
573	-287.230	-83.160	-3.313	1219.11
572	-288.200	-83.150	-3.343	1219.10
571	-289.170	-83.150	-3.393	1219.09
570	-290.140	-83.140	-3.393	1219.08
569	-291.120	-83.140	-3.423	1219.07
568	-292.090	-83.130	-3.463	1219.06
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565	-295.000	-83.110	-3.463	1219.03
564	-295.970	-83.110	-3.483	1219.02
563	-296.940	-83.100	-3.513	1219.01
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559	-300.710	-82.720	-3.543	1218.97
558	-301.650	-82.590	-3.543	1218.96
557	-302.580	-82.470	-3.553	1218.95
556	-303.520	-82.350	-3.593	1218.94
555	-304.450	-82.220	-3.613	1218.93
554	-305.390	-82.100	-3.613	1218.92
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544	-314.730	-80.850	-3.693	1218.82
543	-315.670	-80.720	-3.723	1218.81
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539	-319.410	-80.220	-3.803	1218.77
538	-320.340	-80.100	-3.843	1218.76
537	-321.280	-79.970	-3.843	1218.75
536	-322.210	-79.850	-3.843	1218.74
535	-323.150	-79.720	-3.843	1218.73
534	-324.080	-79.600	-3.843	1218.72
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392	-460.550	-81.510	-5.163	1217.29
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390	-462.530	-81.570	-5.193	1217.27
389	-463.520	-81.600	-5.193	1217.26
388	-464.520	-81.630	-5.193	1217.25
387	-465.510	-81.670	-5.233	1217.24
386	-466.500	-81.700	-5.263	1217.23
385	-467.490	-81.730	-5.263	1217.22
384	-468.480	-81.760	-5.263	1217.21
383	-469.480	-81.790	-5.263	1217.20
382	-470.470	-81.830	-5.263	1217.19
381	-471.460	-81.860	-5.263	1217.18
380	-472.450	-81.890	-5.263	1217.17
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378	-474.440	-81.950	-5.343	1217.15
377	-475.430	-81.990	-5.343	1217.14
376	-476.420	-82.020	-5.343	1217.13
375	-477.410	-82.050	-5.343	1217.12
374	-478.410	-82.080	-5.383	1217.11
373	-479.400	-82.110	-5.363	1217.10
372	-480.390	-82.150	-5.343	1217.09
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370	-482.380	-82.210	-5.343	1217.07
369	-483.370	-82.240	-5.343	1217.06
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367	-485.350	-82.310	-5.383	1217.04
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359	-493.220	-82.540	-5.493	1216.96
358	-494.200	-82.560	-5.493	1216.95
357	-495.180	-82.590	-5.493	1216.94
356	-496.150	-82.620	-5.493	1216.93
355	-497.130	-82.640	-5.493	1216.92
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337	-514.690	-83.100	-5.693	1216.74
336	-515.670	-83.130	-5.713	1216.73
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456	-399.360	-78.270	-4.743	1217.93
455	-400.290	-78.330	-4.743	1217.92
454	-401.230	-78.390	-4.743	1217.91
453	-402.170	-78.450	-4.743	1217.90
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451	-404.050	-78.570	-4.743	1217.88
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441	-413.430	-79.160	-4.813	1217.78
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437	-417.190	-79.400	-4.813	1217.74
436	-418.130	-79.460	-4.813	1217.73
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433	-420.940	-79.640	-4.893	1217.70
432	-421.880	-79.700	-4.893	1217.69
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428	-425.630	-79.940	-4.893	1217.65
427	-426.570	-80.000	-4.933	1217.64
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425	-428.450	-80.120	-4.963	1217.62
424	-429.390	-80.180	-4.963	1217.61
423	-430.330	-80.240	-4.963	1217.60
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420	-433.140	-80.420	-4.963	1217.57
419	-434.080	-80.480	-4.963	1217.56
418	-435.020	-80.540	-4.963	1217.55
417	-435.960	-80.600	-4.963	1217.54
416	-436.900	-80.660	-5.013	1217.53
415	-437.830	-80.710	-5.043	1217.52
414	-438.770	-80.770	-5.043	1217.51
413	-439.710	-80.830	-5.043	1217.50
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411	-441.700	-80.900	-5.043	1217.48
410	-442.690	-80.930	-5.043	1217.47
409	-443.680	-80.960	-5.043	1217.46
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407	-445.660	-81.030	-5.043	1217.44
406	-446.660	-81.060	-5.043	1217.43
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404	-448.640	-81.120	-5.113	1217.41
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325	-526.400	-83.410	-5.833	1216.62	-7.153	1215.96
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322	-529.330	-83.490	-5.863	1216.59	-7.043	1215.93
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317	-534.210	-83.620	-5.943	1216.54	-6.933	1215.88
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301	-549.940	-82.880	-6.243	1216.38	-6.843	1215.72
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296	-554.870	-82.540	-6.363	1216.33	-6.933	1215.67
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294	-556.840	-82.400	-6.393	1216.31	-6.693	1215.65
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291	-559.800	-82.190	-6.463	1216.28	-6.553	1215.62
290	-560.790	-82.120	-6.463	1216.27	-6.543	1215.61
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286	-564.730	-81.840	-6.543	1216.23	-6.483	1215.57
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283	-567.690	-81.630	-6.613	1216.20	-6.763	1215.54
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279	-571.630	-81.350	-6.693	1216.16	-6.633	1215.50
278	-572.620	-81.280	-6.743	1216.15	-6.613	1215.49
277	-573.600	-81.210	-6.763	1216.14	-6.673	1215.48
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131	-719.380	-69.730	-6.853	1214.68
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129	-721.380	-69.570	-6.843	1214.66
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127	-723.380	-69.410	-6.843	1214.64
126	-724.380	-69.330	-6.843	1214.63
125	-725.380	-69.250	-6.903	1214.62
124	-726.380	-69.170	-6.913	1214.61
123	-727.380	-69.090	-6.913	1214.60
122	-728.380	-69.020	-6.913	1214.59
121	-729.380	-68.940	-6.913	1214.58
120	-730.380	-68.860	-6.983	1214.57
119	-731.380	-68.780	-6.993	1214.56
118	-732.380	-68.700	-7.053	1214.55
117	-733.380	-68.620	-6.993	1214.54
116	-734.380	-68.540	-6.923	1214.53
115	-735.380	-68.460	-6.923	1214.52
114	-736.380	-68.380	-6.913	1214.51
113	-737.380	-68.300	-6.983	1214.50
112	-738.380	-68.220	-6.993	1214.49
111	-739.380	-68.140	-6.993	1214.48
110	-740.380	-68.060	-6.993	1214.47
109	-741.380	-67.980	-6.993	1214.46
108	-742.380	-67.900	-6.993	1214.45
107	-743.370	-67.820	-6.993	1214.44
106	-744.370	-67.740	-7.053	1214.43
105	-745.370	-67.660	-7.133	1214.42
104	-746.370	-67.580	-7.143	1214.41
103	-747.370	-67.500	-7.143	1214.40
102	-748.370	-67.420	-7.143	1214.39
101	-749.370	-67.340	-7.143	1214.38
100	-750.370	-67.260	-7.143	1214.37
99	-751.370	-67.180	-7.143	1214.36
98	-752.370	-67.110	-7.073	1214.35
97	-753.370	-67.030	-6.993	1214.34
96	-754.370	-66.950	-6.853	1214.33
95	-755.370	-66.870	-6.843	1214.32
94	-756.370	-66.790	-6.903	1214.31
93	-757.370	-66.710	-6.983	1214.30
92	-758.370	-66.630	-6.993	1214.29
91	-759.370	-66.550	-6.993	1214.28
90	-760.370	-66.470	-6.923	1214.27
89	-761.370	-66.390	-6.843	1214.26
88	-762.370	-66.310	-6.843	1214.25
87	-763.370	-66.230	-6.843	1214.24
86	-764.370	-66.150	-6.843	1214.23
85	-765.370	-66.070	-6.773	1214.22
84	-766.370	-65.990	-6.693	1214.21
83	-767.370	-65.910	-6.623	1214.20
82	-768.370	-65.830	-6.613	1214.19
81	-769.370	-65.750	-6.613	1214.18
80	-770.370	-65.670	-6.613	1214.17
79	-771.370	-65.590	-6.613	1214.16
78	-772.370	-65.510	-6.683	1214.15
77	-773.370	-65.430	-6.693	1214.14
76	-774.370	-65.350	-6.693	1214.13
75	-775.370	-65.270	-6.693	1214.12
74	-776.370	-65.200	-6.623	1214.11
73	-777.370	-65.120	-6.613	1214.10
72	-778.370	-65.040	-6.753	1214.09
71	-779.370	-64.960	-6.763	1214.08
70	-780.370	-64.880	-6.763	1214.07

201	-649.390	-75.300	-6.483	1215.38
200	-650.390	-75.220	-6.583	1215.37
199	-651.390	-75.140	-6.673	1215.36
198	-652.390	-75.060	-6.633	1215.35
197	-653.390	-74.980	-6.553	1215.34
196	-654.390	-74.900	-6.543	1215.33
195	-655.390	-74.820	-6.663	1215.32
194	-656.390	-74.740	-6.753	1215.31
193	-657.390	-74.670	-6.763	1215.30
192	-658.390	-74.590	-6.763	1215.29
191	-659.390	-74.510	-6.823	1215.28
190	-660.390	-74.430	-6.963	1215.27
189	-661.390	-74.350	-6.993	1215.26
188	-662.390	-74.270	-6.923	1215.25
187	-663.390	-74.190	-6.673	1215.24
186	-664.390	-74.110	-6.433	1215.23
185	-665.390	-74.030	-6.323	1215.22
184	-666.390	-73.950	-6.433	1215.21
183	-667.390	-73.870	-6.523	1215.20
182	-668.390	-73.790	-6.663	1215.19
181	-669.390	-73.710	-6.623	1215.18
180	-670.390	-73.630	-6.553	1215.17
179	-671.390	-73.550	-6.603	1215.16
178	-672.390	-73.470	-6.673	1215.15
177	-673.390	-73.390	-6.873	1215.14
176	-674.390	-73.310	-6.913	1215.13
175	-675.390	-73.230	-6.913	1215.12
174	-676.390	-73.150	-6.853	1215.11
173	-677.390	-73.070	-6.963	1215.10
172	-678.390	-72.990	-6.993	1215.09
171	-679.390	-72.910	-6.923	1215.08
170	-680.390	-72.840	-6.913	1215.07
169	-681.390	-72.760	-6.913	1215.06
168	-682.390	-72.680	-6.853	1215.05
167	-683.390	-72.600	-6.843	1215.04
166	-684.390	-72.520	-6.843	1215.03
165	-685.390	-72.440	-6.843	1215.02
164	-686.390	-72.360	-6.903	1215.01
163	-687.380	-72.280	-6.973	1215.00
162	-688.380	-72.200	-7.053	1214.99
161	-689.380	-72.120	-7.003	1214.98
160	-690.380	-72.040	-6.923	1214.97
159	-691.380	-71.960	-6.913	1214.96
158	-692.380	-71.880	-6.783	1214.95
157	-693.380	-71.800	-6.703	1214.94
156	-694.380	-71.720	-6.693	1214.93
155	-695.380	-71.640	-6.693	1214.92
154	-696.380	-71.560	-6.753	1214.91
153	-697.380	-71.480	-6.823	1214.90
152	-698.380	-71.400	-6.843	1214.89
151	-699.380	-71.320	-6.713	1214.88
150	-700.380	-71.240	-6.693	1214.87
149	-701.380	-71.160	-6.693	1214.86
148	-702.380	-71.080	-6.693	1214.85
147	-703.380	-71.000	-6.653	1214.84
146	-704.380	-70.930	-6.623	1214.83
145	-705.380	-70.850	-6.613	1214.82
144	-706.380	-70.770	-6.553	1214.81
143	-707.380	-70.690	-6.543	1214.80
142	-708.380	-70.610	-6.603	1214.79
141	-709.380	-70.530	-6.683	1214.78
140	-710.380	-70.450	-6.693	1214.77
139	-711.380	-70.370	-6.623	1214.76
138	-712.380	-70.290	-6.683	1214.75
137	-713.380	-70.210	-6.693	1214.74
136	-714.380	-70.130	-6.753	1214.73

PT. #	X (m)	Y (m)	Z (m)	TIME	COMMENTS
3	-847.360	-59.550	-6.993	1213.40	
2	-848.360	-59.470	-7.063	1213.39	
1	-849.360	-59.390	-6.993	1213.38	
NORTH LINE 4 (MERGED ON- & OFFSHORE PROFILES)					
20 April 1990 1518 to 1536 (CDT) (ONSHORE)					
22 April 1990 1203 to 1210 (CDT) (OFFSHORE)					
Average offset = -0.510218m					
151	35.490	-60.211	2.482		
152	34.579	-60.145	2.310		
153	23.467	-60.056	2.169		
154	14.103	-59.960	2.163		
155	4.009	-59.940	2.461		
156	-0.111	-59.966	2.743		
157	-4.439	-59.875	2.817		
158	-7.190	-59.680	2.681		
159	-19.062	-59.427	1.654		
160	-32.081	-59.275	1.095		
161	-38.894	-59.718	0.836		
162	-42.905	-59.666	0.681		
163	-44.404	-59.725	0.384		
164	-46.338	-59.423	0.024		
165	-50.951	-59.348	-0.085		
166	-55.880	-59.428	-0.118		
167	-60.763	-59.384	-0.152		
168	-65.499	-59.378	-0.202		
169	-69.924	-59.241	-0.313		
170	-74.738	-59.389	-0.448		
171	-79.409	-59.288	-0.534		
172	-85.874	-59.249	-0.545		
800	-89.520	-59.930	-0.887		
799	-90.320	-60.040	-0.887		
798	-91.130	-60.150	-0.897		
797	-91.940	-60.250	-0.967		
796	-92.750	-60.360	-1.007		
795	-93.560	-60.470	-1.047		
794	-94.360	-60.580	-1.127		
793	-95.170	-60.690	-1.187		
792	-95.980	-60.790	-1.197		
791	-96.790	-60.900	-1.257		
790	-97.590	-61.010	-1.257		
789	-98.400	-61.120	-1.257		
788	-99.210	-61.230	-1.237		
787	-100.020	-61.330	-1.177		
786	-100.820	-61.440	-1.137		
785	-101.630	-61.550	-1.107		
784	-102.440	-61.660	-1.097		
783	-103.250	-61.770	-1.057		
782	-104.050	-61.870	-1.017		
781	-104.860	-61.980	-0.937		
780	-105.670	-62.090	-0.887		
779	-106.480	-62.200	-0.867		
778	-107.280	-62.310	-0.787		
777	-108.090	-62.420	-0.737		
776	-108.900	-62.520	-0.717		
775	-109.710	-62.630	-0.657		
774	-110.520	-62.740	-0.677		
773	-111.320	-62.850	-0.737		
772	-112.130	-62.960	-0.737		
771	-112.940	-63.060	-0.737		
770	-113.750	-63.170	-0.747		
769	-114.550	-63.280	-0.807		
768	-115.360	-63.390	-0.827		
767	-116.170	-63.500	-0.887		
766	-116.980	-63.600	-0.897		

waterline

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69	-781.370	-64.800	-6.833	1214.06
68	-782.370	-64.720	-6.843	1214.05
67	-783.370	-64.640	-6.773	1214.04
66	-784.370	-64.560	-6.693	1214.03
65	-785.370	-64.480	-6.833	1214.02
64	-786.370	-64.400	-6.913	1214.01
63	-787.370	-64.320	-6.843	1214.00
62	-788.370	-64.240	-6.773	1213.99
61	-789.370	-64.160	-6.693	1213.98
60	-790.370	-64.080	-6.693	1213.97
59	-791.370	-64.000	-6.833	1213.96
58	-792.370	-63.920	-6.913	1213.95
57	-793.370	-63.840	-6.913	1213.94
56	-794.370	-63.760	-6.913	1213.93
55	-795.370	-63.680	-6.983	1213.92
54	-796.370	-63.600	-6.913	1213.91
53	-797.370	-63.520	-6.913	1213.90
52	-798.370	-63.440	-6.983	1213.89
51	-799.360	-63.370	-6.993	1213.88
50	-800.360	-63.290	-6.993	1213.87
49	-801.360	-63.210	-6.993	1213.86
48	-802.360	-63.130	-6.993	1213.85
47	-803.360	-63.050	-7.063	1213.84
46	-804.360	-62.970	-7.133	1213.83
45	-805.360	-62.890	-7.143	1213.82
44	-806.360	-62.810	-7.143	1213.81
43	-807.360	-62.730	-7.143	1213.80
42	-808.360	-62.650	-7.143	1213.79
41	-809.360	-62.570	-7.143	1213.78
40	-810.360	-62.490	-7.143	1213.77
39	-811.360	-62.410	-7.143	1213.76
38	-812.360	-62.330	-7.143	1213.75
37	-813.360	-62.250	-7.063	1213.74
36	-814.360	-62.170	-6.993	1213.73
35	-815.360	-62.090	-6.993	1213.72
34	-816.360	-62.010	-6.913	1213.71
33	-817.360	-61.930	-6.843	1213.70
32	-818.360	-61.850	-6.913	1213.69
31	-819.360	-61.770	-6.983	1213.68
30	-820.360	-61.690	-7.133	1213.67
29	-821.360	-61.610	-7.143	1213.66
28	-822.360	-61.530	-7.063	1213.65
27	-823.360	-61.460	-6.993	1213.64
26	-824.360	-61.380	-6.843	1213.63
25	-825.360	-61.300	-6.843	1213.62
24	-826.360	-61.220	-6.913	1213.61
23	-827.360	-61.140	-6.983	1213.60
22	-828.360	-61.060	-6.993	1213.59
21	-829.360	-60.980	-7.063	1213.58
20	-830.360	-60.900	-7.063	1213.57
19	-831.360	-60.820	-7.133	1213.56
18	-832.360	-60.740	-7.063	1213.55
17	-833.360	-60.660	-6.993	1213.54
16	-834.360	-60.580	-6.993	1213.53
15	-835.360	-60.500	-6.993	1213.52
14	-836.360	-60.420	-6.993	1213.51
13	-837.360	-60.340	-6.993	1213.50
12	-838.360	-60.260	-7.063	1213.49
11	-839.360	-60.180	-7.063	1213.48
10	-840.360	-60.100	-6.993	1213.47
9	-841.360	-60.020	-6.993	1213.46
8	-842.360	-59.940	-6.993	1213.45
7	-843.360	-59.860	-6.913	1213.44
6	-844.360	-59.780	-6.913	1213.43
5	-845.360	-59.700	-6.993	1213.42
4	-846.360	-59.620	-6.993	1213.41

699	-183.210	-65.230	-2.457	1208.29
698	-184.280	-65.220	-2.457	1208.28
697	-185.350	-65.200	-2.457	1208.27
696	-186.420	-65.190	-2.457	1208.26
695	-187.490	-65.180	-2.457	1208.25
694	-188.560	-65.160	-2.457	1208.24
693	-189.630	-65.150	-2.457	1208.23
692	-190.700	-65.130	-2.387	1208.22
691	-191.770	-65.120	-2.387	1208.21
690	-192.840	-65.110	-2.387	1208.20
689	-193.920	-65.090	-2.387	1208.19
688	-194.990	-65.080	-2.387	1208.18
687	-196.060	-65.070	-2.387	1208.17
686	-197.130	-65.050	-2.367	1208.16
685	-198.200	-65.040	-2.337	1208.15
684	-199.270	-65.020	-2.307	1208.14
683	-200.340	-65.010	-2.337	1208.13
682	-201.410	-65.000	-2.357	1208.12
681	-202.480	-64.980	-2.307	1208.11
680	-203.560	-64.970	-2.307	1208.10
679	-204.630	-64.950	-2.287	1208.09
678	-205.700	-64.940	-2.237	1208.08
677	-206.770	-64.930	-2.207	1208.07
676	-207.840	-64.910	-2.137	1208.06
675	-208.910	-64.900	-2.057	1208.05
674	-209.980	-64.880	-2.007	1208.04
673	-211.050	-64.870	-1.977	1208.03
672	-212.120	-64.860	-1.937	1208.02
671	-213.190	-64.840	-1.937	1208.01
670	-214.270	-64.830	-1.907	1208.00
669	-215.270	-64.880	-1.857	1207.99
668	-216.270	-64.940	-1.827	1207.98
667	-217.270	-65.000	-1.787	1207.97
666	-218.270	-65.050	-1.787	1207.96
665	-219.270	-65.110	-1.787	1207.95
664	-220.270	-65.160	-1.787	1207.94
663	-221.270	-65.220	-1.787	1207.93
662	-222.270	-65.270	-1.807	1207.92
661	-223.270	-65.330	-1.857	1207.91
660	-224.270	-65.390	-1.857	1207.90
659	-225.270	-65.440	-1.857	1207.89
658	-226.280	-65.500	-1.887	1207.88
657	-227.280	-65.550	-1.937	1207.87
656	-228.280	-65.610	-1.937	1207.86
655	-229.280	-65.660	-1.937	1207.85
654	-230.280	-65.720	-1.957	1207.84
653	-231.280	-65.780	-2.037	1207.83
652	-232.280	-65.830	-2.087	1207.82
651	-233.280	-65.890	-2.097	1207.81
650	-234.280	-65.940	-2.137	1207.80
649	-235.280	-66.000	-2.157	1207.79
648	-236.280	-66.060	-2.187	1207.78
647	-237.280	-66.110	-2.237	1207.77
646	-238.290	-66.170	-2.257	1207.76
645	-239.290	-66.220	-2.307	1207.75
644	-240.290	-66.280	-2.317	1207.74
643	-241.290	-66.330	-2.357	1207.73
642	-242.290	-66.390	-2.387	1207.72
641	-243.290	-66.450	-2.387	1207.71
640	-244.290	-66.500	-2.407	1207.70
639	-245.290	-66.560	-2.457	1207.69
638	-246.290	-66.610	-2.457	1207.68
637	-247.290	-66.670	-2.487	1207.67
636	-248.290	-66.730	-2.537	1207.66
635	-249.290	-66.780	-2.557	1207.65
634	-250.290	-66.840	-2.607	1207.64

765	-117.780	-63.710	-0.957	1208.95
764	-118.590	-63.820	-0.957	1208.94
763	-119.400	-63.930	-0.977	1208.93
762	-120.210	-64.040	-1.037	1208.92
761	-121.010	-64.140	-1.037	1208.91
760	-121.820	-64.250	-1.047	1208.90
759	-122.630	-64.360	-1.107	1208.89
758	-123.440	-64.470	-1.107	1208.88
757	-124.240	-64.580	-1.147	1208.87
756	-125.050	-64.690	-1.257	1208.86
755	-125.860	-64.790	-1.257	1208.85
754	-126.670	-64.900	-1.257	1208.84
753	-127.480	-65.010	-1.277	1208.83
752	-128.280	-65.120	-1.357	1208.82
751	-129.090	-65.230	-1.407	1208.81
750	-129.900	-65.330	-1.407	1208.80
749	-130.710	-65.440	-1.407	1208.79
748	-131.510	-65.550	-1.417	1208.78
747	-132.320	-65.660	-1.457	1208.77
746	-133.130	-65.770	-1.507	1208.76
745	-133.940	-65.870	-1.577	1208.75
744	-135.010	-65.860	-1.677	1208.74
743	-136.080	-65.850	-1.807	1208.73
742	-137.150	-65.830	-1.877	1208.72
741	-138.220	-65.820	-1.947	1208.71
740	-139.290	-65.800	-1.977	1208.70
739	-140.360	-65.790	-2.017	1208.69
738	-141.430	-65.780	-2.037	1208.68
737	-142.500	-65.760	-2.067	1208.67
736	-143.580	-65.750	-2.087	1208.66
735	-144.650	-65.730	-2.097	1208.65
734	-145.720	-65.720	-2.127	1208.64
733	-146.790	-65.710	-2.177	1208.63
732	-147.860	-65.690	-2.257	1208.62
731	-148.930	-65.680	-2.307	1208.61
730	-150.000	-65.660	-2.307	1208.60
729	-151.070	-65.650	-2.307	1208.59
728	-152.140	-65.640	-2.327	1208.58
727	-153.220	-65.620	-2.387	1208.57
726	-154.290	-65.610	-2.387	1208.56
725	-155.360	-65.600	-2.387	1208.55
724	-156.430	-65.580	-2.387	1208.54
723	-157.500	-65.570	-2.387	1208.53
722	-158.570	-65.550	-2.387	1208.52
721	-159.640	-65.540	-2.387	1208.51
720	-160.710	-65.530	-2.387	1208.50
719	-161.780	-65.510	-2.387	1208.49
718	-162.850	-65.500	-2.407	1208.48
717	-163.930	-65.480	-2.457	1208.47
716	-165.000	-65.470	-2.437	1208.46
715	-166.070	-65.460	-2.407	1208.45
714	-167.140	-65.440	-2.437	1208.44
713	-168.210	-65.430	-2.387	1208.43
712	-169.280	-65.410	-2.407	1208.42
711	-170.350	-65.400	-2.457	1208.41
710	-171.420	-65.390	-2.457	1208.40
709	-172.490	-65.370	-2.467	1208.39
708	-173.570	-65.360	-2.507	1208.38
707	-174.640	-65.340	-2.537	1208.37
706	-175.710	-65.330	-2.537	1208.36
705	-176.780	-65.320	-2.507	1208.35
704	-177.850	-65.300	-2.457	1208.34
703	-178.920	-65.290	-2.457	1208.33
702	-179.990	-65.270	-2.477	1208.32
701	-181.060	-65.260	-2.537	1208.31
700	-182.130	-65.250	-2.507	1208.30

567	-321.570	-69.320	-3.837	1206.97
566	-322.670	-69.310	-3.887	1206.96
565	-323.760	-69.300	-3.887	1206.95
564	-324.860	-69.290	-3.887	1206.94
563	-325.950	-69.270	-3.887	1206.93
562	-327.050	-69.260	-3.887	1206.92
561	-328.140	-69.250	-3.897	1206.91
560	-329.240	-69.240	-3.937	1206.90
559	-330.340	-69.230	-3.957	1206.89
558	-331.430	-69.210	-3.957	1206.88
557	-332.530	-69.200	-3.957	1206.87
556	-333.620	-69.190	-3.957	1206.86
555	-334.720	-69.180	-3.957	1206.85
554	-335.810	-69.170	-3.957	1206.84
553	-336.910	-69.150	-3.987	1206.83
552	-338.010	-69.140	-4.037	1206.82
551	-339.100	-69.130	-4.037	1206.81
550	-340.200	-69.120	-4.037	1206.80
549	-341.290	-69.110	-4.067	1206.79
548	-342.390	-69.090	-4.107	1206.78
547	-343.480	-69.080	-4.107	1206.77
546	-344.580	-69.070	-4.107	1206.76
545	-345.680	-69.060	-4.107	1206.75
544	-346.770	-69.040	-4.107	1206.74
543	-347.870	-69.030	-4.147	1206.73
542	-348.960	-69.020	-4.187	1206.72
541	-350.060	-69.010	-4.187	1206.71
540	-351.150	-69.000	-4.187	1206.70
539	-352.250	-68.980	-4.187	1206.69
538	-353.350	-68.970	-4.187	1206.68
537	-354.440	-68.960	-4.197	1206.67
536	-355.540	-68.950	-4.237	1206.66
535	-356.630	-68.940	-4.257	1206.65
534	-357.730	-68.920	-4.257	1206.64
533	-358.820	-68.910	-4.257	1206.63
532	-359.920	-68.900	-4.257	1206.62
531	-361.010	-68.890	-4.257	1206.61
530	-362.110	-68.880	-4.257	1206.60
529	-363.210	-68.860	-4.297	1206.59
528	-364.300	-68.850	-4.337	1206.58
527	-365.400	-68.840	-4.337	1206.57
526	-366.490	-68.830	-4.337	1206.56
525	-367.590	-68.820	-4.337	1206.55
524	-368.680	-68.800	-4.337	1206.54
523	-369.780	-68.790	-4.337	1206.53
522	-370.880	-68.780	-4.367	1206.52
521	-371.970	-68.770	-4.407	1206.51
520	-373.070	-68.760	-4.407	1206.50
519	-374.140	-68.800	-4.407	1206.49
518	-375.210	-68.850	-4.447	1206.48
517	-376.290	-68.890	-4.487	1206.47
516	-377.360	-68.940	-4.487	1206.46
515	-378.430	-68.980	-4.487	1206.45
514	-379.510	-69.030	-4.487	1206.44
513	-380.580	-69.070	-4.487	1206.43
512	-381.650	-69.120	-4.517	1206.42
511	-382.730	-69.160	-4.557	1206.41
510	-383.800	-69.210	-4.557	1206.40
509	-384.870	-69.250	-4.557	1206.39
508	-387.020	-69.340	-4.597	1206.37
507	-388.090	-69.390	-4.637	1206.36
506	-389.170	-69.430	-4.637	1206.35
505	-390.240	-69.480	-4.637	1206.34
504	-391.310	-69.520	-4.667	1206.33
503	-392.390	-69.570	-4.707	1206.32
502	-393.460	-69.620	-4.707	1206.31

633	-251.300	-66.890	-2.617	1207.63
632	-252.300	-66.950	-2.657	1207.62
631	-253.300	-67.000	-2.687	1207.61
630	-254.300	-67.060	-2.687	1207.60
629	-255.300	-67.120	-2.687	1207.59
628	-256.300	-67.170	-2.707	1207.58
627	-257.300	-67.230	-2.757	1207.57
626	-258.300	-67.280	-2.787	1207.56
625	-259.300	-67.340	-2.837	1207.55
624	-260.300	-67.390	-2.837	1207.54
623	-261.300	-67.450	-2.857	1207.53
622	-262.300	-67.510	-2.907	1207.52
621	-263.310	-67.560	-2.907	1207.51
620	-264.310	-67.620	-2.927	1207.50
619	-265.390	-67.650	-2.957	1207.49
618	-266.470	-67.690	-2.987	1207.48
617	-267.540	-67.720	-2.987	1207.47
616	-268.620	-67.760	-3.017	1207.46
615	-269.700	-67.790	-3.057	1207.45
614	-270.780	-67.830	-3.057	1207.44
613	-271.860	-67.860	-3.057	1207.43
612	-272.940	-67.900	-3.057	1207.42
611	-274.020	-67.930	-3.087	1207.41
610	-275.100	-67.970	-3.167	1207.40
609	-276.180	-68.000	-3.207	1207.39
608	-277.260	-68.040	-3.207	1207.38
607	-278.340	-68.070	-3.207	1207.37
606	-279.420	-68.110	-3.237	1207.36
605	-280.500	-68.140	-3.287	1207.35
604	-281.580	-68.170	-3.287	1207.34
603	-282.660	-68.210	-3.287	1207.33
602	-283.740	-68.240	-3.287	1207.32
601	-284.820	-68.280	-3.287	1207.31
600	-285.900	-68.310	-3.287	1207.30
599	-286.980	-68.350	-3.297	1207.29
598	-288.060	-68.380	-3.337	1207.28
597	-289.140	-68.420	-3.337	1207.27
596	-290.220	-68.450	-3.387	1207.26
595	-291.300	-68.490	-3.437	1207.25
594	-292.370	-68.520	-3.437	1207.24
593	-293.450	-68.560	-3.437	1207.23
592	-294.530	-68.590	-3.437	1207.22
591	-295.610	-68.630	-3.467	1207.21
590	-296.690	-68.660	-3.507	1207.20
589	-297.770	-68.700	-3.507	1207.19
588	-298.850	-68.730	-3.507	1207.18
587	-299.930	-68.770	-3.527	1207.17
586	-301.010	-68.800	-3.557	1207.16
585	-302.090	-68.840	-3.587	1207.15
584	-303.170	-68.870	-3.587	1207.14
583	-304.250	-68.910	-3.617	1207.13
582	-305.330	-68.940	-3.657	1207.12
581	-306.410	-68.980	-3.657	1207.11
580	-307.490	-69.010	-3.657	1207.10
579	-308.570	-69.040	-3.657	1207.09
578	-309.650	-69.080	-3.657	1207.08
577	-310.730	-69.110	-3.677	1207.07
576	-311.810	-69.150	-3.707	1207.06
575	-312.890	-69.180	-3.737	1207.05
574	-313.970	-69.220	-3.767	1207.04
573	-315.050	-69.250	-3.787	1207.03
572	-316.120	-69.290	-3.757	1207.02
571	-317.200	-69.320	-3.767	1207.01
570	-318.280	-69.360	-3.807	1207.00
569	-319.380	-69.350	-3.807	1206.99
568	-320.480	-69.330	-3.807	1206.98

435	-465.540	-73.070	-5.387	1205.64
434	-466.620	-73.130	-5.387	1205.63
433	-467.700	-73.180	-5.387	1205.62
432	-468.780	-73.240	-5.387	1205.61
431	-469.850	-73.300	-5.387	1205.60
430	-470.930	-73.350	-5.387	1205.59
429	-472.010	-73.410	-5.427	1205.58
428	-473.090	-73.470	-5.457	1205.57
427	-474.170	-73.530	-5.497	1205.56
426	-475.240	-73.580	-5.487	1205.55
425	-476.320	-73.640	-5.477	1205.54
424	-477.400	-73.700	-5.517	1205.53
423	-478.480	-73.750	-5.537	1205.52
422	-479.560	-73.810	-5.537	1205.51
421	-480.640	-73.870	-5.537	1205.50
420	-481.700	-73.860	-5.537	1205.49
419	-482.760	-73.850	-5.537	1205.48
418	-483.820	-73.840	-5.577	1205.47
417	-484.890	-73.830	-5.607	1205.46
416	-485.950	-73.820	-5.607	1205.45
415	-487.010	-73.810	-5.567	1205.44
414	-488.080	-73.800	-5.577	1205.43
413	-489.140	-73.790	-5.647	1205.42
412	-490.200	-73.770	-5.637	1205.41
411	-491.270	-73.770	-5.607	1205.40
410	-492.330	-73.760	-5.607	1205.39
409	-493.390	-73.750	-5.607	1205.38
408	-494.460	-73.740	-5.657	1205.37
407	-495.520	-73.730	-5.687	1205.36
406	-496.580	-73.720	-5.687	1205.35
405	-497.650	-73.710	-5.687	1205.34
404	-498.710	-73.700	-5.687	1205.33
403	-499.770	-73.690	-5.687	1205.32
402	-500.840	-73.680	-5.727	1205.31
401	-501.900	-73.670	-5.757	1205.30
400	-502.960	-73.660	-5.807	1205.29
399	-504.030	-73.650	-5.837	1205.28
398	-505.090	-73.640	-5.787	1205.27
397	-506.150	-73.630	-5.807	1205.26
396	-507.220	-73.620	-5.837	1205.25
395	-508.280	-73.610	-5.837	1205.24
394	-509.340	-73.600	-5.837	1205.23
393	-510.410	-73.590	-5.837	1205.22
392	-511.470	-73.580	-5.837	1205.21
391	-512.530	-73.570	-5.877	1205.20
390	-513.590	-73.560	-5.907	1205.19
389	-514.660	-73.550	-5.907	1205.18
388	-515.720	-73.540	-5.907	1205.17
387	-516.780	-73.530	-5.927	1205.16
386	-517.850	-73.520	-5.967	1205.15
385	-518.910	-73.510	-5.987	1205.14
384	-519.970	-73.500	-5.987	1205.13
383	-521.040	-73.490	-5.987	1205.12
382	-522.100	-73.480	-5.987	1205.11
381	-523.160	-73.470	-6.027	1205.10
380	-524.230	-73.460	-6.057	1205.09
379	-525.290	-73.450	-6.057	1205.08
378	-526.350	-73.440	-6.057	1205.07
377	-527.420	-73.430	-6.057	1205.06
376	-528.480	-73.420	-6.107	1205.05
375	-529.540	-73.410	-6.137	1205.04
374	-530.610	-73.400	-6.137	1205.03
373	-531.670	-73.390	-6.177	1205.02
372	-532.730	-73.380	-6.207	1205.01
371	-533.800	-73.370	-6.207	1205.00
370	-534.850	-73.340	-6.207	1204.99

501	-394.530	-69.660	-4.707	1206.30
500	-395.610	-69.710	-4.667	1206.29
499	-396.680	-69.750	-4.667	1206.28
498	-397.750	-69.800	-4.707	1206.27
497	-398.830	-69.840	-4.707	1206.26
496	-399.900	-69.890	-4.747	1206.25
495	-400.970	-69.930	-4.787	1206.24
494	-402.050	-69.980	-4.787	1206.23
493	-403.120	-70.020	-4.787	1206.22
492	-404.190	-70.070	-4.787	1206.21
491	-405.270	-70.110	-4.787	1206.20
490	-406.340	-70.160	-4.787	1206.19
489	-407.410	-70.200	-4.787	1206.18
488	-408.490	-70.250	-4.817	1206.17
487	-409.560	-70.290	-4.857	1206.16
486	-410.630	-70.340	-4.857	1206.15
485	-411.710	-70.380	-4.857	1206.14
484	-412.780	-70.430	-4.857	1206.13
483	-413.850	-70.470	-4.857	1206.12
482	-414.920	-70.520	-4.897	1206.11
481	-416.000	-70.560	-4.937	1206.10
480	-417.070	-70.610	-4.937	1206.09
479	-418.140	-70.660	-4.937	1206.08
478	-419.220	-70.700	-4.937	1206.07
477	-420.290	-70.750	-4.937	1206.06
476	-421.360	-70.790	-4.947	1206.05
475	-422.440	-70.840	-4.967	1206.04
474	-423.510	-70.890	-4.997	1206.03
473	-424.580	-70.930	-5.007	1206.02
472	-425.660	-70.970	-5.007	1206.01
471	-426.730	-71.020	-5.007	1206.00
470	-427.810	-71.070	-5.007	1205.99
469	-428.890	-71.130	-5.047	1205.98
468	-429.970	-71.190	-5.087	1205.97
467	-431.040	-71.250	-5.087	1205.96
466	-432.120	-71.300	-5.087	1205.95
465	-433.200	-71.360	-5.087	1205.94
464	-434.280	-71.420	-5.087	1205.93
463	-435.360	-71.470	-5.087	1205.92
462	-436.430	-71.530	-5.107	1205.91
461	-437.510	-71.590	-5.137	1205.90
460	-438.590	-71.640	-5.157	1205.89
459	-439.670	-71.700	-5.157	1205.88
458	-440.750	-71.760	-5.157	1205.87
457	-441.820	-71.820	-5.157	1205.86
456	-442.900	-71.870	-5.157	1205.85
455	-443.980	-71.930	-5.157	1205.84
454	-445.060	-71.990	-5.157	1205.83
453	-446.140	-72.040	-5.157	1205.82
452	-447.210	-72.100	-5.157	1205.81
451	-448.290	-72.160	-5.157	1205.80
450	-449.370	-72.210	-5.197	1205.79
449	-450.450	-72.270	-5.237	1205.78
448	-451.530	-72.330	-5.237	1205.77
447	-452.600	-72.390	-5.237	1205.76
446	-453.680	-72.440	-5.237	1205.75
445	-454.760	-72.500	-5.237	1205.74
444	-455.840	-72.560	-5.277	1205.73
443	-456.920	-72.610	-5.307	1205.72
442	-458.000	-72.670	-5.307	1205.71
441	-459.070	-72.730	-5.307	1205.70
440	-460.150	-72.780	-5.307	1205.69
439	-461.230	-72.840	-5.307	1205.68
438	-462.310	-72.900	-5.307	1205.67
437	-463.390	-72.960	-5.307	1205.66
436	-464.460	-73.010	-5.347	1205.65

369	-535.910	-73.310	-6.207	1204.98
368	-536.970	-73.270	-6.257	1204.97
367	-538.030	-73.240	-6.287	1204.96
366	-539.090	-73.210	-6.287	1204.95
365	-540.150	-73.170	-6.287	1204.94
364	-541.210	-73.140	-6.287	1204.93
363	-542.270	-73.110	-6.287	1204.92
362	-543.330	-73.070	-6.327	1204.91
361	-544.380	-73.040	-6.357	1204.90
360	-545.440	-73.010	-6.357	1204.89
359	-546.500	-72.970	-6.407	1204.88
358	-547.560	-72.940	-6.437	1204.87
357	-548.620	-72.910	-6.437	1204.86
356	-549.680	-72.870	-6.437	1204.85
355	-550.740	-72.840	-6.477	1204.84
354	-551.800	-72.810	-6.507	1204.83
353	-552.850	-72.770	-6.557	1204.82
352	-553.910	-72.740	-6.587	1204.81
351	-554.970	-72.710	-6.587	1204.80
350	-556.030	-72.670	-6.627	1204.79
349	-557.090	-72.640	-6.657	1204.78
348	-558.150	-72.610	-6.657	1204.77
347	-559.210	-72.570	-6.707	1204.76
346	-560.270	-72.540	-6.737	1204.75
345	-561.320	-72.510	-6.777	1204.74
344	-562.380	-72.470	-6.807	1204.73
343	-563.440	-72.440	-6.807	1204.72
342	-564.500	-72.410	-6.807	1204.71
341	-565.560	-72.370	-6.857	1204.70
340	-566.620	-72.340	-6.857	1204.69
339	-567.680	-72.310	-6.887	1204.68
338	-568.740	-72.280	-6.887	1204.67
337	-569.790	-72.240	-6.887	1204.66
336	-570.850	-72.210	-6.887	1204.65
335	-571.910	-72.180	-6.887	1204.64
334	-572.970	-72.140	-6.937	1204.63
333	-574.030	-72.110	-6.957	1204.62
332	-575.090	-72.080	-7.007	1204.61
331	-576.150	-72.040	-7.037	1204.60
330	-577.210	-72.010	-7.037	1204.59
329	-578.260	-71.980	-6.977	1204.58
328	-579.320	-71.940	-6.957	1204.57
327	-580.380	-71.910	-7.007	1204.56
326	-581.440	-71.880	-7.037	1204.55
325	-582.500	-71.840	-7.087	1204.54
324	-583.560	-71.810	-7.157	1204.53
323	-584.620	-71.780	-7.127	1204.52
322	-585.680	-71.740	-7.057	1204.51
321	-586.740	-71.710	-6.977	1204.50
320	-587.800	-71.720	-6.957	1204.49
319	-588.870	-71.730	-6.957	1204.48
318	-589.940	-71.740	-6.957	1204.47
317	-591.010	-71.750	-6.957	1204.46
316	-592.080	-71.760	-7.057	1204.45
315	-593.150	-71.770	-7.157	1204.44
314	-594.220	-71.770	-7.237	1204.43
313	-595.290	-71.780	-7.257	1204.42
312	-596.360	-71.790	-7.207	1204.41
311	-597.430	-71.800	-7.127	1204.40
310	-598.500	-71.810	-7.057	1204.39
309	-599.570	-71.820	-6.977	1204.38
308	-600.640	-71.830	-6.957	1204.37
307	-601.710	-71.840	-7.007	1204.36
306	-602.780	-71.850	-7.087	1204.35
305	-603.850	-71.860	-7.057	1204.34
304	-604.910	-71.870	-6.977	1204.33
303	-605.980	-71.880	-6.957	1204.32
302	-607.050	-71.890	-6.957	1204.31
301	-608.120	-71.890	-6.957	1204.30
300	-609.190	-71.900	-6.907	1204.29
299	-610.260	-71.910	-6.777	1204.28
298	-611.330	-71.920	-6.677	1204.27
297	-612.400	-71.930	-6.607	1204.26
296	-613.470	-71.940	-6.637	1204.25
295	-614.540	-71.950	-6.867	1204.24
294	-615.610	-71.960	-6.957	1204.23
293	-616.680	-71.970	-6.907	1204.22
292	-617.750	-71.980	-6.827	1204.21
291	-618.820	-71.990	-6.807	1204.20
290	-619.890	-71.990	-6.757	1204.19
289	-620.960	-72.000	-6.677	1204.18
288	-622.020	-72.010	-6.627	1204.17
287	-623.090	-72.020	-6.597	1204.16
286	-624.160	-72.030	-6.587	1204.15
285	-625.230	-72.040	-6.587	1204.14
284	-626.300	-72.050	-6.587	1204.13
283	-627.370	-72.060	-6.637	1204.12
282	-628.440	-72.070	-6.707	1204.11
281	-629.510	-72.080	-6.787	1204.10
280	-630.580	-72.090	-6.807	1204.09
279	-631.650	-72.100	-6.807	1204.08
278	-632.720	-72.100	-6.807	1204.07
277	-633.790	-72.110	-6.697	1204.06
276	-634.860	-72.120	-6.547	1204.05
275	-635.930	-72.130	-6.507	1204.04
274	-637.000	-72.140	-6.567	1204.03
273	-638.070	-72.150	-6.587	1204.02
272	-639.130	-72.160	-6.637	1204.01
271	-640.200	-72.170	-6.717	1204.00
270	-641.270	-72.140	-6.737	1203.99
269	-642.340	-72.120	-6.847	1203.98
268	-643.410	-72.090	-6.887	1203.97
267	-644.480	-72.060	-6.937	1203.96
266	-645.550	-72.040	-7.017	1203.95
265	-646.610	-72.010	-7.037	1203.94
264	-647.680	-71.990	-6.917	1203.93
263	-648.750	-71.960	-6.767	1203.92
262	-649.820	-71.930	-6.677	1203.91
261	-650.890	-71.910	-6.717	1203.90
260	-651.960	-71.880	-6.737	1203.89
259	-653.030	-71.860	-6.847	1203.88
258	-654.090	-71.830	-6.887	1203.87
257	-655.160	-71.800	-6.887	1203.86
256	-656.230	-71.780	-6.827	1203.85
255	-657.300	-71.750	-6.807	1203.84
254	-658.370	-71.730	-6.977	1203.83
253	-659.440	-71.700	-7.087	1203.82
252	-660.510	-71.670	-7.047	1203.81
251	-661.570	-71.650	-7.037	1203.80
250	-662.640	-71.620	-6.977	1203.79
249	-663.710	-71.590	-6.957	1203.78
248	-664.780	-71.570	-6.897	1203.77
247	-665.850	-71.540	-6.827	1203.76
246	-666.920	-71.520	-6.807	1203.75
245	-667.980	-71.490	-6.917	1203.74
244	-669.050	-71.460	-7.017	1203.73
243	-670.120	-71.440	-7.037	1203.72
242	-671.190	-71.410	-6.977	1203.71
241	-672.260	-71.390	-7.017	1203.70
240	-673.330	-71.360	-7.147	1203.69
239	-674.400	-71.330	-7.127	1203.68
238	-675.460	-71.310	-7.047	1203.67

171	-749.760	-67.370	-6.437	1203.00
170	-750.880	-67.300	-6.437	1202.99
169	-752.000	-67.230	-6.247	1202.98
168	-753.120	-67.160	-6.017	1202.97
167	-754.250	-67.090	-5.917	1202.96
166	-755.370	-67.020	-5.907	1202.95
165	-756.490	-66.950	-6.037	1202.94
164	-757.610	-66.880	-6.187	1202.93
163	-758.740	-66.810	-6.207	1202.92
162	-759.860	-66.740	-6.267	1202.91
161	-760.980	-66.670	-6.287	1202.90
160	-762.100	-66.600	-6.287	1202.89
159	-763.230	-66.530	-6.287	1202.88
158	-764.350	-66.460	-6.407	1202.87
157	-765.470	-66.390	-6.497	1202.86
156	-766.590	-66.320	-6.447	1202.85
155	-767.720	-66.250	-6.367	1202.84
154	-768.840	-66.180	-6.417	1202.83
153	-769.960	-66.110	-6.497	1202.82
152	-771.080	-66.050	-6.507	1202.81
151	-772.210	-65.980	-6.507	1202.80
150	-773.330	-65.910	-6.507	1202.79
149	-774.450	-65.840	-6.447	1202.78
148	-775.570	-65.770	-6.367	1202.77
147	-776.700	-65.700	-6.357	1202.76
146	-777.820	-65.630	-6.487	1202.75
145	-778.940	-65.560	-6.507	1202.74
144	-780.060	-65.490	-6.447	1202.73
143	-781.190	-65.420	-6.307	1202.72
142	-782.310	-65.350	-6.287	1202.71
141	-783.430	-65.280	-6.347	1202.70
140	-784.550	-65.210	-6.417	1202.69
139	-785.680	-65.140	-6.437	1202.68
138	-786.800	-65.070	-6.497	1202.67
137	-787.920	-65.000	-6.507	1202.66
136	-789.040	-64.930	-6.577	1202.65
135	-790.170	-64.860	-6.517	1202.64
134	-791.290	-64.790	-6.507	1202.63
133	-792.410	-64.720	-6.377	1202.62
132	-793.530	-64.650	-6.227	1202.61
131	-794.660	-64.580	-6.337	1202.60
130	-795.780	-64.510	-6.427	1202.59
129	-796.900	-64.440	-6.367	1202.58
128	-798.020	-64.370	-6.357	1202.57
127	-799.150	-64.300	-6.427	1202.56
126	-800.270	-64.230	-6.497	1202.55
125	-801.390	-64.160	-6.507	1202.54
124	-802.510	-64.090	-6.507	1202.53
123	-803.640	-64.020	-6.437	1202.52
122	-804.760	-63.950	-6.437	1202.51
121	-805.880	-63.880	-6.437	1202.50
120	-807.000	-63.810	-6.437	1202.49
119	-808.130	-63.740	-6.497	1202.48
118	-809.250	-63.670	-6.507	1202.47
117	-810.370	-63.600	-6.437	1202.46
116	-811.490	-63.530	-6.437	1202.45
115	-812.620	-63.460	-6.497	1202.44
114	-813.740	-63.390	-6.507	1202.43
113	-814.860	-63.320	-6.507	1202.42
112	-815.980	-63.250	-6.437	1202.41
111	-817.110	-63.180	-6.497	1202.40
110	-818.230	-63.110	-6.437	1202.39
109	-819.350	-63.040	-6.367	1202.38
108	-820.470	-62.970	-6.357	1202.37
107	-821.600	-62.900	-6.357	1202.36
106	-822.720	-62.830	-6.357	1202.35

237	-676.530	-71.280	-7.037	1203.66
236	-677.600	-71.260	-7.087	1203.65
235	-678.670	-71.230	-7.107	1203.64
234	-679.740	-71.200	-7.107	1203.63
233	-680.810	-71.180	-7.167	1203.62
232	-681.880	-71.150	-7.237	1203.61
231	-682.940	-71.130	-7.147	1203.60
230	-684.010	-71.100	-7.007	1203.59
229	-685.080	-71.070	-7.047	1203.58
228	-686.150	-71.050	-6.967	1203.57
227	-687.220	-71.020	-6.897	1203.56
226	-688.290	-70.990	-6.767	1203.55
225	-689.350	-70.970	-6.847	1203.54
224	-690.420	-70.940	-6.997	1203.53
223	-691.490	-70.920	-7.037	1203.52
222	-692.560	-70.890	-6.977	1203.51
221	-693.630	-70.860	-6.897	1203.50
220	-694.750	-70.790	-6.767	1203.49
219	-695.870	-70.720	-6.677	1203.48
218	-697.000	-70.650	-6.657	1203.47
217	-698.120	-70.580	-6.657	1203.46
216	-699.240	-70.510	-6.657	1203.45
215	-700.360	-70.440	-6.597	1203.44
214	-701.490	-70.380	-6.587	1203.43
213	-702.610	-70.310	-6.637	1203.42
212	-703.730	-70.240	-6.777	1203.41
211	-704.850	-70.170	-6.747	1203.40
210	-705.980	-70.100	-6.707	1203.39
209	-707.100	-70.030	-6.667	1203.38
208	-708.220	-69.960	-6.717	1203.37
207	-709.340	-69.890	-6.707	1203.36
206	-710.470	-69.820	-6.667	1203.35
205	-711.590	-69.750	-6.597	1203.34
204	-712.710	-69.680	-6.587	1203.33
203	-713.830	-69.610	-6.587	1203.32
202	-714.960	-69.540	-6.587	1203.31
201	-716.080	-69.470	-6.587	1203.30
200	-717.200	-69.400	-6.527	1203.29
199	-718.320	-69.330	-6.447	1203.28
198	-719.450	-69.260	-6.377	1203.27
197	-720.570	-69.190	-6.417	1203.26
196	-721.690	-69.120	-6.437	1203.25
195	-722.810	-69.050	-6.437	1203.24
194	-723.940	-68.980	-6.377	1203.23
193	-725.060	-68.910	-6.237	1203.22
192	-726.180	-68.840	-6.207	1203.21
191	-727.300	-68.770	-6.207	1203.20
190	-728.430	-68.700	-6.207	1203.19
189	-729.550	-68.630	-6.267	1203.18
188	-730.670	-68.560	-6.407	1203.17
187	-731.790	-68.490	-6.557	1203.16
186	-732.920	-68.420	-6.587	1203.15
185	-734.040	-68.350	-6.587	1203.14
184	-735.160	-68.280	-6.517	1203.13
183	-736.280	-68.210	-6.447	1203.12
182	-737.410	-68.140	-6.437	1203.11
181	-738.530	-68.070	-6.437	1203.10
180	-739.650	-68.000	-6.437	1203.09
179	-740.770	-67.930	-6.557	1203.08
178	-741.900	-67.860	-6.587	1203.07
177	-743.020	-67.790	-6.647	1203.06
176	-744.140	-67.720	-6.657	1203.05
175	-745.260	-67.650	-6.537	1203.04
174	-746.390	-67.580	-6.507	1203.03
173	-747.510	-67.510	-6.507	1203.02
172	-748.630	-67.440	-6.447	1203.01

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39	-897.930	-58.150	-6.437	1201.68
38	-899.050	-58.080	-6.507	1201.67
37	-900.170	-58.010	-6.507	1201.66
36	-901.300	-57.940	-6.507	1201.65
35	-902.420	-57.870	-6.507	1201.64
34	-903.540	-57.800	-6.437	1201.63
33	-904.660	-57.730	-6.437	1201.62
32	-905.790	-57.660	-6.577	1201.61
31	-906.910	-57.590	-6.587	1201.60
30	-908.030	-57.520	-6.657	1201.59
29	-909.150	-57.450	-6.657	1201.58
28	-910.280	-57.380	-6.727	1201.57
27	-911.400	-57.320	-6.657	1201.56
26	-912.520	-57.250	-6.657	1201.55
25	-913.640	-57.180	-6.587	1201.54
24	-914.770	-57.110	-6.657	1201.53
23	-915.890	-57.040	-6.877	1201.52
22	-917.010	-56.970	-7.027	1201.51
21	-918.130	-56.900	-7.037	1201.50
20	-919.260	-56.830	-6.957	1201.49
19	-920.380	-56.760	-6.887	1201.48
18	-921.500	-56.690	-6.887	1201.47
17	-922.620	-56.620	-6.957	1201.46
16	-923.750	-56.550	-7.027	1201.45
15	-924.870	-56.480	-7.257	1201.44
14	-925.990	-56.410	-7.327	1201.43
13	-927.110	-56.340	-7.337	1201.42
12	-928.240	-56.270	-7.037	1201.41
11	-929.360	-56.200	-6.667	1201.40
10	-930.480	-56.130	-6.587	1201.39
9	-931.600	-56.060	-6.587	1201.38
8	-932.730	-55.990	-6.657	1201.37
7	-933.850	-55.920	-6.657	1201.36
6	-934.970	-55.850	-6.877	1201.35
5	-936.090	-55.780	-6.887	1201.34
4	-937.220	-55.710	-6.737	1201.33
3	-938.340	-55.640	-6.657	1201.32
2	-939.460	-55.570	-6.587	1201.31
1	-940.580	-55.500	-6.507	1201.30

NORTH LINE 3 (MERGED ON- & OFFSHORE PROFILES)
 20 April 1990 1538 to 1557 (CDT) (ONSHORE)
 22 April 1990 1151 to 1159 (CDT) (OFFSHORE)
 Average offset = -0.407139m

PT. #	X (m)	Y (m)	Z (m)	TIME	COMMENTS
221	38.363	-45.348	2.758		
220	37.151	-44.967	2.607		
219	35.030	-45.176	2.300		
218	29.054	-44.969	2.138		
217	18.072	-44.972	2.155		
216	8.146	-44.811	2.298		
215	-0.114	-45.001	2.837		
214	-2.149	-44.933	2.974		
213	-7.013	-44.948	2.817		
212	-13.310	-44.863	2.160		
211	-23.015	-44.830	1.618		
210	-32.050	-44.778	1.347		
209	-38.580	-44.723	0.933		
208	-42.613	-44.698	0.664		
207	-45.049	-44.518	0.395		
206	-47.890	-44.536	-0.083		waterline
205	-55.047	-44.129	-0.142		
204	-61.755	-44.368	-0.193		
203	-70.378	-44.285	-0.246		
202	-78.211	-44.297	-0.343		
201	-85.522	-43.918	-0.601		

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105	-823.840	-62.760	-6.427	1202.34
104	-824.960	-62.690	-6.437	1202.33
103	-826.090	-62.620	-6.437	1202.32
102	-827.210	-62.550	-6.437	1202.31
101	-828.330	-62.480	-6.497	1202.30
100	-829.450	-62.410	-6.577	1202.29
99	-830.580	-62.340	-6.587	1202.28
98	-831.700	-62.270	-6.517	1202.27
97	-832.820	-62.200	-6.437	1202.26
96	-833.940	-62.130	-6.467	1202.25
95	-835.070	-62.060	-6.507	1202.24
94	-836.190	-61.990	-6.507	1202.23
93	-837.310	-61.920	-6.507	1202.22
92	-838.430	-61.850	-6.507	1202.21
91	-839.560	-61.780	-6.437	1202.20
90	-840.680	-61.710	-6.367	1202.19
89	-841.800	-61.650	-6.357	1202.18
88	-842.920	-61.580	-6.287	1202.17
87	-844.050	-61.510	-6.217	1202.16
86	-845.170	-61.440	-6.207	1202.15
85	-846.290	-61.370	-6.207	1202.14
84	-847.410	-61.300	-6.277	1202.13
83	-848.540	-61.230	-6.417	1202.12
82	-849.660	-61.160	-6.437	1202.11
81	-850.780	-61.090	-6.437	1202.10
80	-851.900	-61.020	-6.437	1202.09
79	-853.030	-60.950	-6.437	1202.08
78	-854.150	-60.880	-6.437	1202.07
77	-855.270	-60.810	-6.297	1202.06
76	-856.390	-60.740	-6.217	1202.05
75	-857.520	-60.670	-6.207	1202.04
74	-858.640	-60.600	-6.207	1202.03
73	-859.760	-60.530	-6.277	1202.02
72	-860.880	-60.460	-6.357	1202.01
71	-862.010	-60.390	-6.357	1202.00
70	-863.130	-60.320	-6.357	1201.99
69	-864.250	-60.250	-6.427	1201.98
68	-865.370	-60.180	-6.437	1201.97
67	-866.500	-60.110	-6.437	1201.96
66	-867.620	-60.040	-6.367	1201.95
65	-868.740	-59.970	-6.357	1201.94
64	-869.860	-59.900	-6.427	1201.93
63	-870.990	-59.830	-6.437	1201.92
62	-872.110	-59.760	-6.437	1201.91
61	-873.230	-59.690	-6.367	1201.90
60	-874.350	-59.620	-6.497	1201.89
59	-875.480	-59.550	-6.577	1201.88
58	-876.600	-59.480	-6.657	1201.87
57	-877.720	-59.410	-6.657	1201.86
56	-878.840	-59.340	-6.727	1201.85
55	-879.970	-59.270	-6.737	1201.84
54	-881.090	-59.200	-6.737	1201.83
53	-882.210	-59.130	-6.807	1201.82
52	-883.330	-59.060	-6.737	1201.81
51	-884.460	-58.990	-6.737	1201.80
50	-885.580	-58.920	-6.737	1201.79
49	-886.700	-58.850	-6.877	1201.78
48	-887.820	-58.780	-6.887	1201.77
47	-888.950	-58.710	-6.887	1201.76
46	-890.070	-58.640	-6.807	1201.75
45	-891.190	-58.570	-6.807	1201.74
44	-892.320	-58.500	-6.807	1201.73
43	-893.440	-58.430	-6.877	1201.72
42	-894.560	-58.360	-6.887	1201.71
41	-895.680	-58.290	-6.667	1201.70
40	-896.810	-58.220	-6.517	1201.69

200	-92.899	-44.504	-1.013	1158.25
770	-93.040	-45.910	-1.024	1158.26
771	-93.240	-46.710	-1.004	1158.27
772	-93.440	-47.520	-0.944	1158.28
773	-93.640	-48.320	-0.874	1158.29
774	-93.850	-49.130	-0.794	1158.30
775	-94.050	-49.940	-0.784	1158.31
776	-94.250	-50.740	-0.724	1158.32
777	-94.450	-51.550	-0.644	1158.33
778	-94.880	-56.000	-1.094	1158.34
779	-95.800	-66.050	-1.154	1158.35
780	-96.720	-66.100	-1.154	1158.36
781	-97.640	-66.140	-1.154	1158.37
782	-98.570	-66.190	-1.154	1158.38
783	-99.490	-66.240	-1.154	1158.39
784	-100.410	-66.290	-1.154	1158.40
785	-101.330	-66.340	-1.144	1158.41
786	-102.250	-66.390	-1.104	1158.42
787	-103.170	-66.430	-1.084	1158.43
788	-104.090	-66.480	-1.044	1158.44
789	-105.010	-66.530	-0.934	1158.45
790	-105.930	-66.580	-0.934	1158.46
791	-106.850	-66.620	-0.914	1158.47
792	-107.770	-66.670	-0.854	1158.48
793	-108.690	-66.720	-0.834	1158.49
794	-109.620	-66.770	-0.744	1158.50
795	-110.540	-66.810	-0.634	1158.51
796	-111.460	-66.860	-0.634	1158.52
797	-112.380	-66.910	-0.634	1158.53
798	-113.300	-66.960	-0.654	1158.54
799	-114.220	-67.010	-0.704	1158.55
800	-115.140	-67.050	-0.724	1158.56
801	-116.060	-67.100	-0.804	1158.57
802	-116.980	-67.150	-0.854	1158.58
803	-117.900	-67.200	-0.854	1158.59
804	-118.820	-67.250	-0.894	1158.60
805	-119.740	-67.300	-1.004	1158.61
806	-120.660	-67.350	-1.024	1158.62
807	-121.580	-67.400	-1.104	1158.63
808	-122.500	-67.450	-1.154	1158.64
809	-123.420	-67.500	-1.194	1158.65
810	-124.340	-67.550	-1.304	1158.66
811	-125.260	-67.600	-1.324	1158.67
812	-126.180	-67.650	-1.404	1158.68
813	-127.100	-67.700	-1.454	1158.69
814	-128.020	-67.750	-1.474	1158.70
815	-128.940	-67.800	-1.554	1158.71
816	-129.860	-67.850	-1.604	1158.72
817	-130.780	-67.900	-1.614	1158.73
818	-131.700	-67.950	-1.654	1158.74
819	-132.620	-68.000	-1.684	1158.75
820	-133.540	-68.050	-1.704	1158.76
821	-134.460	-68.100	-1.754	1158.77
822	-135.380	-68.150	-1.774	1158.78
823	-136.300	-68.200	-1.834	1158.79
824	-137.220	-68.250	-1.834	1158.80
825	-138.140	-68.300	-1.854	1158.81
826	-139.060	-68.350	-1.904	1158.82
827	-140.000	-68.400	-1.904	1158.83
828	-140.920	-68.450	-1.924	1158.84
829	-141.840	-68.500	-1.984	1158.85
830	-142.760	-68.550	-1.984	1158.86

712	-143.470	-49.990	-2.004	1157.67
713	-144.420	-50.030	-2.054	1157.68
714	-145.360	-50.060	-2.074	1157.69
715	-146.300	-50.090	-2.134	1157.70
716	-147.240	-50.120	-2.154	1157.71
717	-148.190	-50.150	-2.204	1157.72
718	-149.130	-50.180	-2.224	1157.73
719	-150.070	-50.220	-2.284	1157.74
720	-151.010	-50.250	-2.284	1157.75
721	-151.960	-50.280	-2.284	1157.76
722	-152.900	-50.310	-2.304	1157.77
723	-153.840	-50.340	-2.354	1157.78
724	-154.780	-50.380	-2.354	1157.79
725	-155.730	-50.410	-2.374	1157.80
726	-156.670	-50.440	-2.434	1157.81
727	-157.610	-50.470	-2.434	1157.82
728	-158.550	-50.500	-2.454	1157.83
729	-159.500	-50.540	-2.504	1157.84
730	-160.400	-50.600	-2.504	1157.85
731	-161.300	-50.670	-2.504	1157.86
732	-162.200	-50.740	-2.504	1157.87
733	-163.100	-50.800	-2.504	1157.88
734	-164.000	-50.870	-2.504	1157.89
735	-164.900	-50.940	-2.504	1157.90
736	-165.790	-51.000	-2.494	1157.91
737	-166.690	-51.070	-2.474	1157.92
738	-167.590	-51.140	-2.444	1157.93
739	-168.490	-51.200	-2.434	1157.94
740	-169.390	-51.270	-2.434	1157.95
741	-170.290	-51.340	-2.434	1157.96
742	-171.190	-51.400	-2.404	1157.97
743	-172.090	-51.470	-2.334	1157.98
744	-172.990	-51.540	-2.284	1157.99
745	-173.890	-51.610	-2.284	1158.00
746	-174.790	-51.670	-2.284	1158.01
747	-175.690	-51.740	-2.284	1158.02
748	-176.590	-51.810	-2.284	1158.03
749	-177.490	-51.870	-2.264	1158.04
750	-178.390	-51.940	-2.234	1158.05
751	-179.290	-52.010	-2.204	1158.06
752	-180.190	-52.070	-2.174	1158.07
753	-181.090	-52.140	-2.134	1158.08
754	-181.990	-52.210	-2.134	1158.09
755	-182.870	-52.290	-2.134	1158.10
756	-183.750	-52.380	-2.134	1158.11
757	-184.640	-52.460	-2.134	1158.12
758	-185.520	-52.550	-2.134	1158.13
759	-186.400	-52.640	-2.104	1158.14
760	-187.280	-52.720	-2.054	1158.15
761	-188.160	-52.810	-2.054	1158.16
762	-189.040	-52.890	-2.054	1158.17
763	-189.920	-52.980	-2.054	1158.18
764	-190.800	-53.060	-2.084	1158.19
765	-191.680	-53.150	-2.104	1158.20
766	-192.560	-53.230	-2.054	1158.21
767	-193.450	-53.320	-2.054	1158.22
768	-194.330	-53.410	-2.064	1158.23
769	-195.210	-53.490	-2.104	1158.24
770	-196.090	-53.580	-2.134	1158.25
771	-196.970	-53.660	-2.134	1158.26
772	-197.850	-53.750	-2.104	1158.27
773	-198.730	-53.830	-2.054	1158.28
774	-199.610	-53.920	-2.024	1158.29
775	-200.490	-54.000	-1.984	1158.30
776	-201.380	-54.090	-1.984	1158.31
777	-202.260	-54.180	-1.954	1158.32

580	-262.460	-54.300	-2.784	1156.35
579	-263.370	-54.300	-2.804	1156.34
578	-264.280	-54.300	-2.804	1156.33
577	-265.190	-54.290	-2.804	1156.32
576	-266.100	-54.290	-2.804	1156.31
575	-267.010	-54.290	-2.824	1156.30
574	-267.920	-54.290	-2.854	1156.29
573	-268.820	-54.290	-2.884	1156.28
572	-269.730	-54.280	-2.894	1156.27
571	-270.640	-54.280	-2.934	1156.26
570	-271.550	-54.280	-2.954	1156.25
569	-272.460	-54.280	-2.954	1156.24
568	-273.370	-54.280	-2.954	1156.23
567	-274.280	-54.270	-2.974	1156.22
566	-275.190	-54.270	-3.004	1156.21
565	-276.090	-54.270	-3.034	1156.20
564	-277.000	-54.270	-3.034	1156.19
563	-277.910	-54.260	-3.034	1156.18
562	-278.820	-54.260	-3.034	1156.17
561	-279.730	-54.260	-3.064	1156.16
560	-280.640	-54.260	-3.064	1156.15
559	-281.550	-54.260	-3.104	1156.14
558	-282.460	-54.250	-3.104	1156.13
557	-283.370	-54.250	-3.104	1156.12
556	-284.270	-54.250	-3.134	1156.11
555	-285.180	-54.250	-3.184	1156.10
554	-286.090	-54.250	-3.184	1156.09
553	-287.000	-54.240	-3.184	1156.08
552	-287.910	-54.240	-3.184	1156.07
551	-288.820	-54.240	-3.214	1156.06
550	-289.730	-54.240	-3.214	1156.05
549	-290.640	-54.240	-3.254	1156.04
548	-291.540	-54.230	-3.254	1156.03
547	-292.450	-54.230	-3.254	1156.02
546	-293.360	-54.230	-3.254	1156.01
545	-294.270	-54.230	-3.274	1156.00
544	-295.250	-54.260	-3.314	1155.99
543	-296.230	-54.290	-3.334	1155.98
542	-297.220	-54.320	-3.334	1155.97
541	-298.200	-54.350	-3.334	1155.96
540	-299.180	-54.370	-3.334	1155.95
539	-300.160	-54.400	-3.364	1155.94
538	-301.140	-54.430	-3.404	1155.93
537	-302.120	-54.460	-3.404	1155.92
536	-303.100	-54.490	-3.444	1155.91
535	-304.090	-54.520	-3.484	1155.90
534	-305.070	-54.550	-3.484	1155.89
533	-306.050	-54.580	-3.484	1155.88
532	-307.030	-54.610	-3.484	1155.87
531	-308.010	-54.640	-3.484	1155.86
530	-308.990	-54.670	-3.484	1155.85
529	-309.980	-54.700	-3.514	1155.84
528	-310.960	-54.730	-3.554	1155.83
527	-311.940	-54.760	-3.554	1155.82
526	-312.920	-54.790	-3.554	1155.81
525	-313.900	-54.820	-3.574	1155.80
524	-314.880	-54.850	-3.614	1155.79
523	-315.860	-54.880	-3.634	1155.78
522	-316.850	-54.910	-3.634	1155.77
521	-317.830	-54.940	-3.634	1155.76
520	-318.810	-54.970	-3.634	1155.75
519	-319.790	-55.000	-3.664	1155.74
518	-320.770	-55.030	-3.704	1155.73
517	-321.750	-55.060	-3.704	1155.72
516	-322.740	-55.080	-3.704	1155.71
515	-323.720	-55.110	-3.744	1155.70

646	-203.140	-54.260	-1.904	1157.01
645	-204.020	-54.350	-1.904	1157.00
644	-204.920	-54.350	-1.874	1156.99
643	-205.810	-54.350	-1.834	1156.98
642	-206.710	-54.350	-1.834	1156.97
641	-207.600	-54.350	-1.814	1156.96
640	-208.500	-54.350	-1.774	1156.95
639	-209.400	-54.350	-1.724	1156.94
638	-210.290	-54.340	-1.684	1156.93
637	-211.190	-54.340	-1.684	1156.92
636	-212.080	-54.340	-1.684	1156.91
635	-212.980	-54.340	-1.654	1156.90
634	-213.880	-54.340	-1.604	1156.89
633	-214.770	-54.340	-1.604	1156.88
632	-215.670	-54.340	-1.604	1156.87
631	-216.570	-54.340	-1.604	1156.86
630	-217.460	-54.340	-1.604	1156.85
629	-218.360	-54.340	-1.604	1156.84
628	-219.250	-54.340	-1.604	1156.83
627	-220.150	-54.340	-1.604	1156.82
626	-221.050	-54.340	-1.634	1156.81
625	-221.940	-54.340	-1.684	1156.80
624	-222.840	-54.340	-1.684	1156.79
623	-223.740	-54.340	-1.704	1156.78
622	-224.630	-54.340	-1.784	1156.77
621	-225.530	-54.340	-1.834	1156.76
620	-226.420	-54.340	-1.834	1156.75
619	-227.320	-54.340	-1.844	1156.74
618	-228.220	-54.340	-1.884	1156.73
617	-229.110	-54.340	-1.904	1156.72
616	-230.010	-54.340	-1.904	1156.71
615	-230.910	-54.340	-1.934	1156.70
614	-231.800	-54.340	-1.984	1156.69
613	-232.700	-54.340	-1.984	1156.68
612	-233.590	-54.340	-2.014	1156.67
611	-234.490	-54.340	-2.054	1156.66
610	-235.390	-54.340	-2.084	1156.65
609	-236.280	-54.340	-2.134	1156.64
608	-237.180	-54.340	-2.134	1156.63
607	-238.080	-54.340	-2.164	1156.62
606	-238.970	-54.340	-2.204	1156.61
605	-239.870	-54.340	-2.224	1156.60
604	-240.760	-54.330	-2.254	1156.59
603	-241.660	-54.330	-2.284	1156.58
602	-242.560	-54.330	-2.284	1156.57
601	-243.450	-54.330	-2.314	1156.56
600	-244.350	-54.330	-2.354	1156.55
599	-245.250	-54.330	-2.384	1156.54
598	-246.140	-54.330	-2.434	1156.53
597	-247.040	-54.330	-2.434	1156.52
596	-247.930	-54.330	-2.434	1156.51
595	-248.830	-54.330	-2.444	1156.50
594	-249.740	-54.330	-2.484	1156.49
593	-250.650	-54.330	-2.504	1156.48
592	-251.560	-54.330	-2.504	1156.47
591	-252.470	-54.320	-2.534	1156.46
590	-253.370	-54.320	-2.584	1156.45
589	-254.280	-54.320	-2.584	1156.44
588	-255.190	-54.320	-2.584	1156.43
587	-256.100	-54.320	-2.614	1156.42
586	-257.010	-54.310	-2.654	1156.41
585	-257.920	-54.310	-2.664	1156.40
584	-258.830	-54.310	-2.694	1156.39
583	-259.740	-54.310	-2.714	1156.38
582	-260.640	-54.300	-2.734	1156.37
581	-261.550	-54.300	-2.744	1156.36

448	-388.360	-55.520	-4.454	1155.02
447	-389.300	-55.520	-4.454	1155.01
446	-390.240	-55.520	-4.454	1155.00
445	-391.170	-55.410	-4.454	1154.99
444	-392.100	-55.300	-4.454	1154.98
443	-393.020	-55.200	-4.454	1154.97
442	-393.950	-55.090	-4.474	1154.96
441	-394.880	-54.990	-4.514	1154.95
440	-395.810	-54.880	-4.534	1154.94
439	-396.740	-54.780	-4.534	1154.93
438	-397.670	-54.670	-4.534	1154.92
437	-398.590	-54.570	-4.534	1154.91
436	-399.520	-54.460	-4.574	1154.90
435	-400.450	-54.360	-4.604	1154.89
434	-401.380	-54.250	-4.604	1154.88
433	-402.310	-54.150	-4.624	1154.87
432	-403.230	-54.040	-4.664	1154.86
431	-404.160	-53.940	-4.684	1154.85
430	-405.090	-53.830	-4.684	1154.84
429	-406.020	-53.730	-4.684	1154.83
428	-406.950	-53.620	-4.684	1154.82
427	-407.870	-53.520	-4.724	1154.81
426	-408.800	-53.410	-4.734	1154.80
425	-409.730	-53.310	-4.754	1154.79
424	-410.660	-53.200	-4.774	1154.78
423	-411.590	-53.100	-4.814	1154.77
422	-412.520	-52.990	-4.834	1154.76
421	-413.440	-52.890	-4.834	1154.75
420	-414.370	-52.780	-4.834	1154.74
419	-415.300	-52.680	-4.854	1154.73
418	-416.230	-52.570	-4.884	1154.72
417	-417.160	-52.470	-4.904	1154.71
416	-418.080	-52.360	-4.904	1154.70
415	-419.010	-52.260	-4.904	1154.69
414	-419.940	-52.150	-4.944	1154.68
413	-420.870	-52.050	-5.004	1154.67
412	-421.800	-51.940	-5.044	1154.66
411	-422.720	-51.840	-5.054	1154.65
410	-423.650	-51.730	-5.054	1154.64
409	-424.580	-51.630	-5.054	1154.63
408	-425.510	-51.520	-5.104	1154.62
407	-426.440	-51.420	-5.134	1154.61
406	-427.370	-51.310	-5.134	1154.60
405	-428.290	-51.210	-5.134	1154.59
404	-429.220	-51.100	-5.174	1154.58
403	-430.150	-51.000	-5.204	1154.57
402	-431.080	-50.890	-5.204	1154.56
401	-432.010	-50.790	-5.204	1154.55
400	-432.930	-50.680	-5.204	1154.54
399	-433.860	-50.580	-5.204	1154.53
398	-434.790	-50.470	-5.204	1154.52
397	-435.720	-50.370	-5.204	1154.51
396	-436.650	-50.260	-5.204	1154.50
395	-437.610	-50.290	-5.204	1154.49
394	-438.580	-50.310	-5.204	1154.48
393	-439.540	-50.330	-5.204	1154.47
392	-440.510	-50.350	-5.204	1154.46
391	-441.480	-50.370	-5.254	1154.45
390	-442.440	-50.390	-5.284	1154.44
389	-443.410	-50.410	-5.284	1154.43
388	-444.370	-50.430	-5.284	1154.42
387	-445.340	-50.450	-5.284	1154.41
386	-446.300	-50.470	-5.284	1154.40
385	-447.270	-50.500	-5.304	1154.39
384	-448.230	-50.520	-5.344	1154.38
383	-449.200	-50.540	-5.354	1154.37

514	-324.700	-55.140	-3.784	1155.69
513	-325.680	-55.170	-3.784	1155.68
512	-326.660	-55.200	-3.784	1155.67
511	-327.640	-55.230	-3.784	1155.66
510	-328.620	-55.260	-3.784	1155.65
509	-329.610	-55.290	-3.784	1155.64
508	-331.570	-55.350	-3.794	1155.62
507	-332.550	-55.380	-3.834	1155.61
506	-333.530	-55.410	-3.854	1155.60
505	-334.510	-55.440	-3.854	1155.59
504	-335.500	-55.470	-3.854	1155.58
503	-336.480	-55.500	-3.854	1155.57
502	-337.460	-55.530	-3.894	1155.56
501	-338.440	-55.560	-3.934	1155.55
500	-339.420	-55.590	-3.934	1155.54
499	-340.400	-55.620	-3.964	1155.53
498	-341.380	-55.650	-4.004	1155.52
497	-342.370	-55.680	-4.004	1155.51
496	-343.350	-55.710	-4.004	1155.50
495	-344.290	-55.700	-4.004	1155.49
494	-345.220	-55.690	-4.004	1155.48
493	-346.160	-55.690	-4.004	1155.47
492	-347.100	-55.690	-4.004	1155.46
491	-348.040	-55.690	-4.004	1155.45
490	-348.980	-55.680	-4.004	1155.44
489	-349.910	-55.680	-4.004	1155.43
488	-350.850	-55.680	-4.044	1155.42
487	-351.790	-55.670	-4.084	1155.41
486	-352.730	-55.670	-4.084	1155.40
485	-353.660	-55.660	-4.084	1155.39
484	-354.600	-55.660	-4.084	1155.38
483	-355.540	-55.660	-4.084	1155.37
482	-356.480	-55.650	-4.084	1155.36
481	-357.420	-55.650	-4.084	1155.35
480	-358.350	-55.640	-4.084	1155.34
479	-359.290	-55.640	-4.084	1155.33
478	-360.230	-55.640	-4.124	1155.32
477	-361.170	-55.630	-4.154	1155.31
476	-362.100	-55.630	-4.154	1155.30
475	-363.040	-55.630	-4.154	1155.29
474	-363.980	-55.620	-4.154	1155.28
473	-364.920	-55.620	-4.154	1155.27
472	-365.860	-55.610	-4.154	1155.26
471	-366.790	-55.610	-4.194	1155.25
470	-367.730	-55.610	-4.194	1155.24
469	-368.670	-55.600	-4.234	1155.23
468	-369.610	-55.600	-4.234	1155.22
467	-370.550	-55.600	-4.234	1155.21
466	-371.480	-55.590	-4.234	1155.20
465	-372.420	-55.590	-4.234	1155.19
464	-373.360	-55.580	-4.234	1155.18
463	-374.300	-55.580	-4.274	1155.17
462	-375.230	-55.580	-4.304	1155.16
461	-376.170	-55.570	-4.304	1155.15
460	-377.110	-55.570	-4.304	1155.14
459	-378.050	-55.560	-4.304	1155.13
458	-378.990	-55.560	-4.324	1155.12
457	-379.920	-55.560	-4.364	1155.11
456	-380.860	-55.550	-4.384	1155.10
455	-381.800	-55.550	-4.384	1155.09
454	-382.740	-55.550	-4.384	1155.08
453	-383.680	-55.540	-4.384	1155.07
452	-384.610	-55.540	-4.384	1155.06
451	-385.550	-55.530	-4.384	1155.05
450	-386.490	-55.530	-4.384	1155.04
449	-387.430	-55.530	-4.424	1155.03

382	-450.170	-50.560	-5.354	1154.36
381	-451.130	-50.580	-5.354	1154.35
380	-452.100	-50.600	-5.304	1154.34
379	-453.060	-50.620	-5.304	1154.33
378	-454.030	-50.640	-5.344	1154.32
377	-454.990	-50.660	-5.374	1154.31
376	-455.960	-50.680	-5.414	1154.30
375	-456.930	-50.710	-5.434	1154.29
374	-457.890	-50.730	-5.434	1154.28
373	-458.860	-50.750	-5.454	1154.27
372	-459.820	-50.770	-5.494	1154.26
371	-460.790	-50.790	-5.504	1154.25
370	-461.750	-50.810	-5.504	1154.24
369	-462.720	-50.830	-5.504	1154.23
368	-463.690	-50.850	-5.504	1154.22
367	-464.650	-50.870	-5.504	1154.21
366	-465.620	-50.900	-5.504	1154.20
365	-466.580	-50.920	-5.504	1154.19
364	-467.550	-50.940	-5.504	1154.18
363	-468.510	-50.960	-5.504	1154.17
362	-469.480	-50.980	-5.504	1154.16
361	-470.450	-51.000	-5.504	1154.15
360	-471.410	-51.020	-5.504	1154.14
359	-472.380	-51.040	-5.504	1154.13
358	-473.340	-51.060	-5.504	1154.12
357	-474.310	-51.080	-5.504	1154.11
356	-475.270	-51.110	-5.504	1154.10
355	-476.240	-51.130	-5.554	1154.09
354	-477.200	-51.150	-5.504	1154.08
353	-478.170	-51.170	-5.554	1154.07
352	-479.140	-51.190	-5.584	1154.06
351	-480.100	-51.210	-5.584	1154.05
350	-481.070	-51.230	-5.624	1154.04
349	-482.030	-51.250	-5.654	1154.03
348	-483.000	-51.270	-5.604	1154.02
347	-483.960	-51.290	-5.624	1154.01
346	-484.930	-51.320	-5.654	1154.00
345	-485.830	-51.330	-5.654	1153.99
344	-486.730	-51.340	-5.704	1153.98
343	-487.620	-51.350	-5.684	1153.97
342	-488.520	-51.360	-5.654	1153.96
341	-489.420	-51.380	-5.704	1153.95
339	-491.210	-51.400	-5.704	1153.93
338	-492.110	-51.410	-5.734	1153.92
337	-493.010	-51.430	-5.784	1153.91
336	-493.910	-51.440	-5.804	1153.90
335	-494.800	-51.450	-5.804	1153.89
334	-495.700	-51.460	-5.804	1153.88
333	-496.600	-51.470	-5.804	1153.87
332	-497.500	-51.490	-5.804	1153.86
331	-498.390	-51.500	-5.804	1153.85
330	-499.290	-51.510	-5.854	1153.84
329	-500.190	-51.520	-5.884	1153.83
328	-501.090	-51.540	-5.884	1153.82
327	-501.990	-51.550	-5.884	1153.81
326	-502.880	-51.560	-5.884	1153.80
325	-503.780	-51.570	-5.884	1153.79
324	-504.680	-51.580	-5.934	1153.78
323	-505.580	-51.600	-5.954	1153.77
322	-506.470	-51.610	-5.954	1153.76
321	-507.370	-51.620	-5.954	1153.75
320	-508.270	-51.630	-6.004	1153.74
319	-509.170	-51.640	-6.034	1153.73
318	-510.060	-51.660	-6.034	1153.72
317	-510.960	-51.670	-6.034	1153.71

316	-511.860	-51.680	-6.034	1153.70
315	-512.760	-51.690	-6.034	1153.69
314	-513.650	-51.710	-6.044	1153.68
313	-514.550	-51.720	-6.074	1153.67
312	-515.450	-51.730	-6.094	1153.66
311	-516.350	-51.740	-6.104	1153.65
310	-517.250	-51.750	-6.104	1153.64
309	-518.140	-51.770	-6.104	1153.63
308	-519.040	-51.780	-6.104	1153.62
307	-519.940	-51.790	-6.104	1153.61
306	-520.840	-51.800	-6.104	1153.60
305	-521.730	-51.820	-6.154	1153.59
304	-522.630	-51.830	-6.184	1153.58
303	-523.530	-51.840	-6.184	1153.57
302	-524.430	-51.850	-6.184	1153.56
301	-525.320	-51.860	-6.184	1153.55
300	-526.220	-51.880	-6.184	1153.54
299	-527.120	-51.890	-6.234	1153.53
298	-528.020	-51.900	-6.254	1153.52
297	-528.910	-51.910	-6.254	1153.51
296	-529.810	-51.930	-6.254	1153.50
295	-530.650	-51.930	-6.254	1153.49
294	-531.490	-51.930	-6.254	1153.48
293	-532.330	-51.930	-6.254	1153.47
292	-533.170	-51.930	-6.254	1153.46
291	-534.010	-51.930	-6.304	1153.45
290	-534.850	-51.940	-6.334	1153.44
289	-535.690	-51.940	-6.334	1153.43
288	-536.530	-51.940	-6.334	1153.42
287	-537.370	-51.940	-6.384	1153.41
286	-538.210	-51.940	-6.404	1153.40
285	-539.050	-51.940	-6.404	1153.39
284	-539.890	-51.950	-6.404	1153.38
283	-540.730	-51.950	-6.434	1153.37
282	-541.570	-51.950	-6.464	1153.36
281	-542.410	-51.950	-6.534	1153.35
280	-543.250	-51.950	-6.554	1153.34
279	-544.090	-51.960	-6.554	1153.33
278	-544.930	-51.960	-6.554	1153.32
277	-545.770	-51.960	-6.604	1153.31
276	-546.610	-51.960	-6.634	1153.30
275	-547.450	-51.960	-6.634	1153.29
274	-548.290	-51.960	-6.634	1153.28
273	-549.130	-51.970	-6.634	1153.27
272	-549.970	-51.970	-6.634	1153.26
271	-550.810	-51.970	-6.634	1153.25
270	-551.650	-51.970	-6.684	1153.24
269	-552.490	-51.970	-6.764	1153.23
268	-553.330	-51.980	-6.784	1153.22
267	-554.170	-51.980	-6.784	1153.21
266	-555.010	-51.980	-6.784	1153.20
265	-555.850	-51.980	-6.834	1153.19
264	-556.690	-51.980	-6.914	1153.18
263	-557.530	-51.980	-6.934	1153.17
262	-558.370	-51.990	-6.934	1153.16
261	-559.210	-51.990	-6.934	1153.15
260	-560.050	-51.990	-6.874	1153.14
259	-560.890	-51.990	-6.854	1153.13
258	-561.730	-51.990	-6.914	1153.12
257	-562.570	-52.000	-6.934	1153.11
256	-563.410	-52.000	-6.934	1153.10
255	-564.250	-52.000	-6.874	1153.09
254	-565.090	-52.000	-6.854	1153.08
253	-565.930	-52.000	-6.914	1153.07
252	-566.770	-52.000	-6.934	1153.06
251	-567.610	-52.010	-6.934	1153.05

184	-623.280	-53.690	-6.164	1152.38
183	-624.100	-53.650	-6.304	1152.37
182	-624.920	-53.610	-6.394	1152.36
181	-625.740	-53.570	-6.404	1152.35
180	-626.550	-53.520	-6.404	1152.34
179	-627.370	-53.480	-6.464	1152.33
178	-628.190	-53.440	-6.484	1152.32
177	-629.000	-53.400	-6.544	1152.31
176	-629.820	-53.360	-6.614	1152.30
175	-630.640	-53.320	-6.634	1152.29
174	-631.460	-53.280	-6.634	1152.28
173	-632.270	-53.240	-6.694	1152.27
172	-633.090	-53.190	-6.644	1152.26
171	-633.910	-53.150	-6.564	1152.25
170	-634.730	-53.110	-6.554	1152.24
169	-635.540	-53.070	-6.614	1152.23
168	-636.360	-53.030	-6.634	1152.22
167	-637.180	-52.990	-6.694	1152.21
166	-638.000	-52.950	-6.644	1152.20
165	-638.810	-52.910	-6.634	1152.19
164	-639.630	-52.860	-6.634	1152.18
163	-640.450	-52.820	-6.694	1152.17
162	-641.260	-52.780	-6.704	1152.16
161	-642.080	-52.740	-6.704	1152.15
160	-642.900	-52.700	-6.834	1152.14
159	-643.720	-52.660	-6.794	1152.13
158	-644.530	-52.620	-6.714	1152.12
157	-645.350	-52.580	-6.644	1152.11
156	-646.170	-52.530	-6.634	1152.10
155	-646.990	-52.490	-6.634	1152.09
154	-647.800	-52.450	-6.754	1152.08
153	-648.620	-52.410	-6.814	1152.07
152	-649.440	-52.370	-6.844	1152.06
151	-650.260	-52.330	-6.854	1152.05
150	-651.070	-52.290	-6.914	1152.04
149	-651.890	-52.250	-6.994	1152.03
148	-652.710	-52.200	-7.064	1152.02
147	-653.520	-52.160	-7.084	1152.01
146	-654.340	-52.120	-6.954	1152.00
145	-655.190	-52.080	-6.934	1151.99
144	-656.030	-52.040	-6.804	1151.98
143	-656.870	-52.000	-6.784	1151.97
142	-657.720	-51.960	-6.784	1151.96
141	-658.560	-51.920	-6.784	1151.95
140	-659.400	-51.880	-6.844	1151.94
139	-660.250	-51.840	-6.794	1151.93
138	-661.090	-51.800	-6.714	1151.92
137	-661.930	-51.760	-6.764	1151.91
136	-662.780	-51.720	-6.844	1151.90
135	-663.620	-51.680	-6.854	1151.89
134	-664.460	-51.640	-6.924	1151.88
133	-665.310	-51.600	-6.934	1151.87
132	-666.150	-51.560	-6.934	1151.86
131	-666.990	-51.520	-6.934	1151.85
130	-667.840	-51.480	-6.934	1151.84
129	-668.680	-51.440	-6.864	1151.83
128	-669.520	-51.400	-6.924	1151.82
127	-670.370	-51.370	-6.934	1151.81
126	-671.210	-51.330	-6.934	1151.80
125	-672.050	-51.290	-6.934	1151.79
124	-672.900	-51.250	-6.934	1151.78
123	-673.740	-51.210	-6.934	1151.77
122	-674.580	-51.170	-6.934	1151.76
121	-675.430	-51.130	-6.934	1151.75
120	-676.270	-51.090	-6.994	1151.74
119	-677.110	-51.050	-6.934	1151.73

250	-568.450	-52.010	-6.934	1153.04
249	-569.290	-52.010	-6.984	1153.03
248	-570.130	-52.010	-6.944	1153.02
247	-570.970	-52.010	-6.874	1153.01
246	-571.820	-52.020	-6.794	1153.00
245	-572.650	-52.060	-6.724	1152.99
244	-573.480	-52.100	-6.704	1152.98
243	-574.310	-52.150	-6.644	1152.97
242	-575.150	-52.190	-6.804	1152.96
241	-575.980	-52.230	-6.914	1152.95
240	-576.810	-52.280	-6.984	1152.94
239	-577.650	-52.320	-7.004	1152.93
238	-578.480	-52.360	-7.004	1152.92
237	-579.310	-52.410	-6.944	1152.91
236	-580.150	-52.450	-6.874	1152.90
235	-580.980	-52.490	-6.794	1152.89
234	-581.810	-52.540	-6.784	1152.88
233	-582.650	-52.580	-6.784	1152.87
232	-583.480	-52.620	-6.834	1152.86
231	-584.310	-52.670	-6.914	1152.85
230	-585.150	-52.710	-6.934	1152.84
229	-585.980	-52.750	-6.934	1152.83
228	-586.810	-52.800	-6.934	1152.82
227	-587.650	-52.840	-6.934	1152.81
226	-588.480	-52.880	-6.874	1152.80
225	-589.310	-52.930	-6.854	1152.79
224	-590.150	-52.970	-6.854	1152.78
223	-590.980	-53.010	-6.794	1152.77
222	-591.810	-53.060	-6.724	1152.76
221	-592.650	-53.100	-6.704	1152.75
220	-593.480	-53.140	-6.764	1152.74
219	-594.310	-53.190	-6.834	1152.73
218	-595.140	-53.230	-6.914	1152.72
217	-595.980	-53.270	-6.984	1152.71
216	-596.810	-53.320	-7.004	1152.70
215	-597.640	-53.360	-6.944	1152.69
214	-598.480	-53.400	-6.874	1152.68
213	-599.310	-53.450	-6.674	1152.67
212	-600.140	-53.490	-6.574	1152.66
211	-600.980	-53.530	-6.494	1152.65
210	-601.810	-53.580	-6.484	1152.64
209	-602.640	-53.620	-6.594	1152.63
208	-603.480	-53.660	-6.744	1152.62
207	-604.310	-53.710	-6.784	1152.61
206	-605.140	-53.750	-6.724	1152.60
205	-605.980	-53.790	-6.644	1152.59
204	-606.810	-53.840	-6.574	1152.58
203	-607.640	-53.880	-6.554	1152.57
202	-608.480	-53.920	-6.554	1152.56
201	-609.310	-53.970	-6.554	1152.55
200	-610.140	-54.010	-6.554	1152.54
199	-610.980	-54.050	-6.554	1152.53
198	-611.810	-54.100	-6.614	1152.52
197	-612.640	-54.140	-6.574	1152.51
196	-613.480	-54.180	-6.554	1152.50
195	-614.290	-54.140	-6.554	1152.49
194	-615.110	-54.100	-6.494	1152.48
193	-615.930	-54.060	-6.544	1152.47
192	-616.740	-54.020	-6.614	1152.46
191	-617.560	-53.980	-6.634	1152.45
190	-618.380	-53.940	-6.564	1152.44
189	-619.200	-53.900	-6.434	1152.43
188	-620.010	-53.850	-6.404	1152.42
187	-620.830	-53.810	-6.344	1152.41
186	-621.650	-53.770	-6.204	1152.40
185	-622.470	-53.730	-6.114	1152.39

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52	-734.180	-48.800	-6.704	1151.06
51	-735.030	-48.770	-6.704	1151.05
50	-735.890	-48.740	-6.704	1151.04
49	-736.740	-48.710	-6.704	1151.03
48	-737.600	-48.680	-6.774	1151.02
47	-738.460	-48.650	-6.704	1151.01
46	-739.310	-48.620	-6.774	1151.00
45	-740.170	-48.590	-6.784	1150.99
44	-741.020	-48.560	-6.784	1150.98
43	-741.880	-48.530	-6.854	1150.97
42	-742.740	-48.500	-6.854	1150.96
41	-743.590	-48.470	-6.784	1150.95
40	-744.450	-48.440	-6.784	1150.94
39	-745.300	-48.410	-6.854	1150.93
38	-746.160	-48.380	-6.784	1150.92
37	-747.020	-48.350	-6.634	1150.91
36	-747.870	-48.320	-6.704	1150.90
35	-748.730	-48.290	-6.774	1150.89
34	-749.580	-48.260	-6.784	1150.88
33	-750.440	-48.230	-6.784	1150.87
32	-751.300	-48.200	-6.704	1150.86
31	-752.150	-48.170	-6.704	1150.85
30	-753.010	-48.140	-6.704	1150.84
29	-753.860	-48.110	-6.774	1150.83
28	-754.720	-48.080	-6.784	1150.82
27	-755.580	-48.050	-6.704	1150.81
26	-756.430	-48.020	-6.774	1150.80
25	-757.290	-47.990	-6.784	1150.79
24	-758.140	-47.960	-6.704	1150.78
23	-759.000	-47.930	-6.634	1150.77
22	-759.860	-47.900	-6.554	1150.76
21	-760.710	-47.870	-6.484	1150.75
20	-761.570	-47.840	-6.554	1150.74
19	-762.420	-47.810	-6.484	1150.73
18	-763.280	-47.780	-6.334	1150.72
17	-764.130	-47.750	-6.254	1150.71
16	-764.990	-47.720	-6.104	1150.70
15	-765.850	-47.690	-6.104	1150.69
14	-766.700	-47.660	-6.254	1150.68
13	-767.560	-47.630	-6.324	1150.67
12	-768.410	-47.600	-6.254	1150.66
11	-769.270	-47.570	-6.404	1150.65
10	-770.130	-47.540	-6.474	1150.64
9	-770.980	-47.510	-6.484	1150.63
8	-771.840	-47.480	-6.484	1150.62
7	-772.690	-47.450	-6.484	1150.61
6	-773.550	-47.420	-6.334	1150.60
5	-774.410	-47.390	-6.184	1150.59
4	-775.260	-47.360	-6.404	1150.58
3	-776.120	-47.330	-6.404	1150.57
2	-776.970	-47.300	-6.484	1150.56
1	-777.830	-47.270	-6.484	1150.55

NORTH LINE 2 (MERGED ON- & OFFSHORE PROFILES)
 20 April 1990 1559 to 1619 (CDT) (ONSHORE)
 22 April 1990 1138 to 1147 (CDT) (OFFSHORE)
 Average offset = -0.433019m

PT. #	X (m)	Y (m)	Z (m)	TIME	COMMENTS
222	41.359	-30.571	2.752		
223	39.618	-30.461	2.617		
224	33.727	-30.438	2.181		
225	22.084	-30.263	2.130		
226	10.905	-30.117	2.239		
227	3.937	-29.988	2.550		
228	-0.107	-30.012	2.889		
229	-3.066	-29.727	3.052		

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118	-677.960	-51.010	-6.934	1151.72
117	-678.800	-50.970	-6.864	1151.71
116	-679.650	-50.930	-6.924	1151.70
115	-680.490	-50.890	-6.994	1151.69
114	-681.330	-50.850	-7.004	1151.68
113	-682.180	-50.810	-6.934	1151.67
112	-683.020	-50.770	-6.934	1151.66
111	-683.860	-50.730	-6.864	1151.65
110	-684.710	-50.690	-6.784	1151.64
109	-685.550	-50.650	-6.784	1151.63
108	-686.390	-50.610	-6.714	1151.62
107	-687.240	-50.570	-6.774	1151.61
106	-688.080	-50.530	-6.714	1151.60
105	-688.920	-50.490	-6.634	1151.59
104	-689.770	-50.450	-6.634	1151.58
103	-690.610	-50.410	-6.694	1151.57
102	-691.450	-50.370	-6.774	1151.56
101	-692.300	-50.330	-6.784	1151.55
100	-693.140	-50.290	-6.784	1151.54
99	-693.980	-50.250	-6.784	1151.53
98	-694.830	-50.210	-6.844	1151.52
97	-695.670	-50.170	-6.854	1151.51
96	-696.510	-50.130	-6.924	1151.50
95	-697.370	-50.100	-6.864	1151.49
94	-698.230	-50.070	-6.854	1151.48
93	-699.080	-50.040	-6.924	1151.47
92	-699.940	-50.010	-6.934	1151.46
91	-700.790	-49.980	-6.934	1151.45
90	-701.650	-49.950	-6.794	1151.44
89	-702.510	-49.920	-6.784	1151.43
88	-703.360	-49.890	-6.784	1151.42
87	-704.220	-49.860	-6.784	1151.41
86	-705.070	-49.830	-6.714	1151.40
85	-705.930	-49.800	-6.774	1151.39
84	-706.790	-49.770	-6.784	1151.38
83	-707.640	-49.740	-6.784	1151.37
82	-708.500	-49.710	-6.714	1151.36
81	-709.350	-49.680	-6.704	1151.35
80	-710.210	-49.650	-6.774	1151.34
79	-711.070	-49.620	-6.784	1151.33
78	-711.920	-49.590	-6.714	1151.32
77	-712.780	-49.560	-6.634	1151.31
76	-713.630	-49.530	-6.634	1151.30
75	-714.490	-49.500	-6.694	1151.29
74	-715.350	-49.470	-6.634	1151.28
73	-716.200	-49.440	-6.564	1151.27
72	-717.060	-49.410	-6.484	1151.26
71	-717.910	-49.380	-6.554	1151.25
70	-718.770	-49.350	-6.624	1151.24
69	-719.620	-49.320	-6.594	1151.23
68	-720.480	-49.290	-6.554	1151.22
67	-721.340	-49.260	-6.624	1151.21
66	-722.190	-49.230	-6.704	1151.20
65	-723.050	-49.200	-6.774	1151.19
64	-723.900	-49.170	-6.714	1151.18
63	-724.760	-49.140	-6.634	1151.17
62	-725.620	-49.110	-6.564	1151.16
61	-726.470	-49.080	-6.554	1151.15
60	-727.330	-49.050	-6.554	1151.14
59	-728.180	-49.020	-6.554	1151.13
58	-729.040	-48.990	-6.624	1151.12
57	-729.900	-48.960	-6.484	1151.11
56	-730.750	-48.930	-6.484	1151.10
55	-731.610	-48.900	-6.404	1151.09
54	-732.460	-48.860	-6.544	1151.08
53	-733.320	-48.830	-6.694	1151.07

230	-7.321	-29.825	2.883	
231	-19.267	-29.633	1.786	
232	-31.287	-29.615	1.201	
233	-38.366	-29.654	0.923	
234	-41.790	-29.688	0.910	
235	-46.190	-29.592	0.333	
236	-48.734	-29.561	-0.113	
237	-53.020	-29.571	-0.133	
238	-57.585	-29.599	-0.088	
239	-62.560	-29.475	-0.131	
240	-67.828	-29.428	-0.120	
241	-73.154	-29.318	-0.197	
242	-79.023	-29.294	-0.364	
243	-85.514	-29.259	-0.632	
244	-91.348	-29.323	-0.829	
859	-94.690	-31.370	-0.890	1146.21
858	-95.410	-31.430	-0.960	1146.20
857	-96.120	-31.490	-1.000	1146.19
856	-96.840	-31.550	-1.040	1146.18
855	-97.560	-31.610	-1.110	1146.17
854	-98.280	-31.670	-1.110	1146.16
853	-98.990	-31.730	-1.110	1146.15
852	-99.710	-31.790	-1.110	1146.14
851	-100.430	-31.850	-1.110	1146.13
850	-101.150	-31.910	-1.120	1146.12
849	-101.860	-31.970	-1.180	1146.11
848	-102.580	-32.030	-1.170	1146.10
847	-103.300	-32.080	-1.110	1146.09
846	-104.020	-32.140	-1.110	1146.08
845	-104.730	-32.200	-1.090	1146.07
844	-105.450	-32.260	-1.030	1146.06
843	-106.170	-32.320	-1.020	1146.05
842	-106.890	-32.380	-0.960	1146.04
841	-107.600	-32.440	-0.940	1146.03
840	-108.320	-32.500	-0.880	1146.02
839	-109.040	-32.560	-0.870	1146.01
838	-109.760	-32.620	-0.790	1146.00
837	-110.480	-32.680	-0.730	1145.99
836	-111.190	-32.730	-0.730	1145.98
835	-111.910	-32.790	-0.730	1145.97
834	-112.630	-32.850	-0.730	1145.96
833	-113.350	-32.910	-0.730	1145.95
832	-114.060	-32.970	-0.730	1145.94
831	-114.780	-33.030	-0.740	1145.93
830	-115.500	-33.090	-0.820	1145.92
829	-116.220	-33.150	-0.880	1145.91
828	-116.930	-33.210	-0.900	1145.90
827	-117.650	-33.270	-0.960	1145.89
826	-118.370	-33.330	-1.000	1145.88
825	-119.090	-33.390	-1.030	1145.87
824	-119.800	-33.440	-1.050	1145.86
823	-120.520	-33.500	-1.120	1145.85
822	-121.240	-33.560	-1.200	1145.84
821	-121.960	-33.620	-1.270	1145.83
820	-122.670	-33.680	-1.330	1145.82
819	-123.390	-33.740	-1.350	1145.81
818	-124.110	-33.800	-1.410	1145.80
817	-124.830	-33.860	-1.410	1145.79
816	-125.550	-33.920	-1.420	1145.78
815	-126.260	-33.980	-1.480	1145.77
814	-126.980	-34.040	-1.480	1145.76
813	-127.700	-34.100	-1.500	1145.75
812	-128.420	-34.150	-1.560	1145.74
811	-129.130	-34.210	-1.600	1145.73
810	-129.850	-34.270	-1.630	1145.72
809	-130.570	-34.330	-1.650	1145.71

waterline

808	-131.290	-34.390	-1.720	1145.70
807	-132.000	-34.450	-1.780	1145.69
806	-132.720	-34.510	-1.800	1145.68
805	-133.440	-34.570	-1.860	1145.67
804	-134.160	-34.630	-1.870	1145.66
803	-134.870	-34.690	-1.950	1145.65
802	-135.590	-34.750	-2.010	1145.64
801	-136.310	-34.810	-2.010	1145.63
800	-137.030	-34.860	-2.020	1145.62
799	-137.750	-34.920	-2.080	1145.61
798	-138.460	-34.980	-2.080	1145.60
797	-139.180	-35.040	-2.100	1145.59
796	-139.900	-35.100	-2.160	1145.58
795	-140.620	-35.160	-2.170	1145.57
794	-141.330	-35.220	-2.250	1145.56
793	-142.050	-35.280	-2.310	1145.55
792	-142.770	-35.340	-2.310	1145.54
791	-143.490	-35.400	-2.310	1145.53
790	-144.200	-35.460	-2.320	1145.52
789	-144.920	-35.510	-2.380	1145.51
788	-145.640	-35.570	-2.360	1145.50
787	-146.360	-35.610	-2.310	1145.49
786	-147.080	-35.640	-2.310	1145.48
785	-147.800	-35.670	-2.320	1145.47
784	-148.520	-35.700	-2.380	1145.46
783	-149.240	-35.730	-2.380	1145.45
782	-149.960	-35.760	-2.380	1145.44
781	-150.680	-35.800	-2.380	1145.43
780	-151.400	-35.830	-2.380	1145.42
779	-152.120	-35.860	-2.380	1145.41
778	-152.840	-35.890	-2.380	1145.40
777	-153.560	-35.920	-2.380	1145.39
776	-154.290	-35.950	-2.380	1145.38
775	-155.010	-35.990	-2.380	1145.37
774	-155.730	-36.020	-2.380	1145.36
773	-156.450	-36.050	-2.400	1145.35
772	-157.170	-36.080	-2.440	1145.34
771	-157.890	-36.110	-2.390	1145.33
770	-158.610	-36.140	-2.430	1145.32
769	-159.330	-36.180	-2.460	1145.31
768	-160.050	-36.210	-2.460	1145.30
767	-160.770	-36.240	-2.440	1145.29
766	-161.490	-36.270	-2.380	1145.28
765	-162.210	-36.300	-2.360	1145.27
764	-162.930	-36.330	-2.310	1145.26
763	-163.650	-36.370	-2.320	1145.25
762	-164.370	-36.400	-2.360	1145.24
761	-165.080	-36.440	-2.310	1145.23
760	-165.800	-36.480	-2.310	1145.22
759	-166.520	-36.520	-2.310	1145.21
758	-167.230	-36.560	-2.310	1145.20
757	-167.950	-36.600	-2.310	1145.19
756	-168.660	-36.640	-2.310	1145.18
755	-169.380	-36.680	-2.310	1145.17
754	-170.090	-36.720	-2.310	1145.16
753	-170.810	-36.760	-2.290	1145.15
752	-171.530	-36.800	-2.250	1145.14
751	-172.240	-36.840	-2.290	1145.13
750	-172.960	-36.880	-2.230	1145.12
749	-173.670	-36.920	-2.230	1145.11
748	-174.390	-36.960	-2.230	1145.10
747	-175.100	-37.000	-2.230	1145.09
746	-175.820	-37.040	-2.230	1145.08
745	-176.540	-37.080	-2.210	1145.07
744	-177.250	-37.120	-2.160	1145.06
743	-177.970	-37.160	-2.160	1145.05

676	-227.770	-37.510	-1.870	1144.38
675	-228.510	-37.500	-1.910	1144.37
674	-229.260	-37.490	-1.930	1144.36
673	-230.000	-37.470	-1.930	1144.35
672	-230.740	-37.460	-1.960	1144.34
671	-231.480	-37.450	-2.010	1144.33
670	-232.230	-37.440	-2.010	1144.32
669	-232.970	-37.420	-2.010	1144.31
668	-233.710	-37.410	-2.010	1144.30
667	-234.460	-37.400	-2.030	1144.29
666	-235.200	-37.380	-2.080	1144.28
665	-235.940	-37.370	-2.080	1144.27
664	-236.680	-37.360	-2.110	1144.26
663	-237.430	-37.340	-2.160	1144.25
662	-238.170	-37.330	-2.170	1144.24
661	-238.910	-37.320	-2.210	1144.23
660	-239.650	-37.300	-2.240	1144.22
659	-240.400	-37.290	-2.280	1144.21
658	-241.140	-37.280	-2.310	1144.20
657	-241.880	-37.260	-2.310	1144.19
656	-242.620	-37.250	-2.310	1144.18
655	-243.370	-37.240	-2.330	1144.17
654	-244.110	-37.230	-2.380	1144.16
653	-244.850	-37.210	-2.380	1144.15
652	-245.590	-37.200	-2.380	1144.14
651	-246.340	-37.190	-2.380	1144.13
650	-247.080	-37.170	-2.410	1144.12
649	-247.820	-37.160	-2.460	1144.11
648	-248.570	-37.150	-2.460	1144.10
647	-249.310	-37.130	-2.460	1144.09
646	-250.050	-37.120	-2.480	1144.08
645	-250.790	-37.110	-2.530	1144.07
644	-251.540	-37.090	-2.530	1144.06
643	-252.280	-37.080	-2.530	1144.05
642	-253.020	-37.070	-2.530	1144.04
641	-253.760	-37.050	-2.560	1144.03
640	-254.510	-37.040	-2.610	1144.02
639	-255.250	-37.030	-2.610	1144.01
638	-255.990	-37.020	-2.610	1144.00
637	-256.730	-37.100	-2.610	1143.99
636	-257.510	-37.190	-2.630	1143.98
635	-258.270	-37.280	-2.680	1143.97
634	-259.030	-37.370	-2.680	1143.96
633	-259.790	-37.460	-2.680	1143.95
632	-260.550	-37.550	-2.690	1143.94
631	-261.310	-37.640	-2.730	1143.93
630	-262.070	-37.730	-2.760	1143.92
629	-262.830	-37.820	-2.760	1143.91
628	-263.590	-37.910	-2.760	1143.90
627	-264.360	-38.000	-2.780	1143.89
626	-265.120	-38.090	-2.830	1143.88
625	-265.880	-38.180	-2.830	1143.87
624	-266.640	-38.270	-2.860	1143.86
623	-267.400	-38.360	-2.910	1143.85
622	-268.160	-38.450	-2.910	1143.84
621	-268.920	-38.540	-2.910	1143.83
620	-269.680	-38.630	-2.940	1143.82
619	-270.440	-38.720	-2.980	1143.81
618	-271.200	-38.810	-2.980	1143.80
617	-271.960	-38.900	-2.980	1143.79
616	-272.720	-38.990	-2.980	1143.78
615	-273.480	-39.080	-3.000	1143.77
614	-274.240	-39.170	-3.030	1143.76
613	-275.000	-39.260	-3.060	1143.75
612	-275.760	-39.350	-3.060	1143.74
611	-276.520	-39.440	-3.060	1143.73

742	-178.680	-37.200	-2.160	1145.04
741	-179.400	-37.240	-2.160	1145.03
740	-180.120	-37.280	-2.150	1145.02
739	-180.830	-37.320	-2.130	1145.01
738	-181.550	-37.360	-2.110	1145.00
737	-182.300	-37.390	-2.090	1144.99
736	-183.050	-37.410	-2.080	1144.98
735	-183.800	-37.440	-2.070	1144.97
734	-184.550	-37.460	-2.030	1144.96
733	-185.300	-37.490	-2.010	1144.95
732	-186.050	-37.510	-2.010	1144.94
731	-186.800	-37.540	-2.010	1144.93
730	-187.550	-37.570	-2.010	1144.92
729	-188.300	-37.590	-2.010	1144.91
728	-189.050	-37.620	-2.010	1144.90
727	-189.800	-37.640	-2.010	1144.89
726	-190.550	-37.670	-1.980	1144.88
725	-191.290	-37.690	-1.930	1144.87
724	-192.040	-37.720	-1.930	1144.86
723	-192.790	-37.740	-1.930	1144.85
722	-193.540	-37.770	-1.910	1144.84
721	-194.290	-37.800	-1.860	1144.83
720	-195.040	-37.820	-1.860	1144.82
719	-195.790	-37.850	-1.860	1144.81
718	-196.540	-37.870	-1.860	1144.80
717	-197.290	-37.900	-1.830	1144.79
716	-198.040	-37.920	-1.780	1144.78
715	-198.790	-37.950	-1.780	1144.77
714	-199.540	-37.970	-1.780	1144.76
713	-200.290	-38.000	-1.760	1144.75
712	-201.040	-37.990	-1.680	1144.74
711	-201.780	-37.970	-1.630	1144.73
710	-202.520	-37.960	-1.610	1144.72
709	-203.260	-37.950	-1.530	1144.71
708	-204.010	-37.930	-1.480	1144.70
707	-204.750	-37.920	-1.470	1144.69
706	-205.490	-37.910	-1.430	1144.68
705	-206.230	-37.890	-1.410	1144.67
704	-206.980	-37.880	-1.410	1144.66
703	-207.720	-37.870	-1.430	1144.65
702	-208.460	-37.860	-1.480	1144.64
701	-209.200	-37.840	-1.480	1144.63
700	-209.950	-37.830	-1.480	1144.62
699	-210.690	-37.820	-1.480	1144.61
698	-211.430	-37.800	-1.480	1144.60
697	-212.180	-37.790	-1.480	1144.59
696	-212.920	-37.780	-1.480	1144.58
695	-213.660	-37.760	-1.490	1144.57
694	-214.400	-37.750	-1.530	1144.56
693	-215.150	-37.740	-1.560	1144.55
692	-215.890	-37.720	-1.560	1144.54
691	-216.630	-37.710	-1.560	1144.53
690	-217.370	-37.700	-1.570	1144.52
689	-218.120	-37.680	-1.610	1144.51
688	-218.860	-37.670	-1.630	1144.50
687	-219.600	-37.660	-1.630	1144.49
686	-220.340	-37.650	-1.630	1144.48
685	-221.090	-37.630	-1.630	1144.47
684	-221.830	-37.620	-1.660	1144.46
683	-222.570	-37.610	-1.710	1144.45
682	-223.320	-37.590	-1.720	1144.44
681	-224.060	-37.580	-1.760	1144.43
680	-224.800	-37.570	-1.790	1144.42
679	-225.540	-37.550	-1.810	1144.41
678	-226.290	-37.540	-1.840	1144.40
677	-227.030	-37.530	-1.860	1144.39

544	-328.290	-42.270	-3.880	1143.06
543	-329.070	-42.290	-3.920	1143.05
542	-329.840	-42.300	-3.960	1143.04
541	-330.620	-42.320	-3.960	1143.03
540	-331.400	-42.340	-3.960	1143.02
539	-332.180	-42.360	-3.960	1143.01
538	-332.960	-42.380	-3.960	1143.00
537	-333.720	-42.310	-3.960	1142.99
536	-334.490	-42.250	-3.960	1142.98
535	-335.250	-42.190	-3.960	1142.97
534	-336.010	-42.130	-3.960	1142.96
533	-336.780	-42.070	-3.960	1142.95
532	-337.540	-42.010	-3.960	1142.94
531	-338.310	-41.950	-3.960	1142.93
530	-339.070	-41.890	-3.960	1142.92
529	-339.830	-41.830	-3.960	1142.91
528	-340.600	-41.770	-3.960	1142.90
527	-341.360	-41.700	-3.960	1142.89
526	-342.120	-41.640	-3.990	1142.88
525	-342.890	-41.580	-4.020	1142.87
524	-343.650	-41.520	-3.990	1142.86
523	-344.410	-41.460	-3.970	1142.85
522	-345.180	-41.400	-3.970	1142.84
521	-345.940	-41.340	-4.010	1142.83
520	-346.700	-41.280	-4.030	1142.82
519	-347.470	-41.220	-4.030	1142.81
518	-348.230	-41.160	-4.030	1142.80
517	-348.990	-41.100	-4.030	1142.79
516	-349.760	-41.030	-4.030	1142.78
515	-350.520	-40.970	-4.030	1142.77
514	-351.280	-40.910	-4.030	1142.76
513	-352.050	-40.850	-4.030	1142.75
512	-353.570	-40.730	-4.030	1142.73
511	-354.340	-40.670	-4.030	1142.72
510	-355.100	-40.610	-4.050	1142.71
509	-355.860	-40.550	-4.090	1142.70
508	-356.630	-40.490	-4.110	1142.69
507	-357.390	-40.430	-4.110	1142.68
506	-358.160	-40.360	-4.110	1142.67
505	-358.920	-40.300	-4.110	1142.66
504	-359.680	-40.240	-4.110	1142.65
503	-360.450	-40.180	-4.110	1142.64
502	-361.210	-40.120	-4.110	1142.63
501	-361.970	-40.060	-4.110	1142.62
500	-362.740	-40.000	-4.110	1142.61
499	-363.500	-39.940	-4.110	1142.60
498	-364.260	-39.880	-4.110	1142.59
497	-365.030	-39.820	-4.120	1142.58
496	-365.790	-39.760	-4.160	1142.57
495	-366.550	-39.690	-4.180	1142.56
494	-367.320	-39.630	-4.180	1142.55
493	-368.080	-39.570	-4.180	1142.54
492	-368.840	-39.510	-4.180	1142.53
491	-369.610	-39.450	-4.180	1142.52
490	-370.370	-39.390	-4.200	1142.51
489	-371.130	-39.330	-4.240	1142.50
488	-371.920	-39.370	-4.260	1142.49
487	-372.700	-39.410	-4.260	1142.48
486	-373.480	-39.450	-4.260	1142.47
485	-374.260	-39.490	-4.260	1142.46
484	-375.040	-39.530	-4.260	1142.45
483	-375.820	-39.560	-4.280	1142.44
482	-376.600	-39.600	-4.310	1142.43
481	-377.380	-39.640	-4.330	1142.42
480	-378.170	-39.680	-4.330	1142.41
479	-378.950	-39.720	-4.330	1142.40

610	-277.280	-39.530	-3.070	1143.72
609	-278.040	-39.620	-3.110	1143.71
608	-278.800	-39.700	-3.130	1143.70
607	-279.560	-39.790	-3.130	1143.69
606	-280.320	-39.880	-3.130	1143.68
605	-281.080	-39.970	-3.130	1143.67
604	-281.840	-40.060	-3.130	1143.66
603	-282.600	-40.150	-3.150	1143.65
602	-283.360	-40.240	-3.180	1143.64
601	-284.120	-40.330	-3.210	1143.63
600	-284.880	-40.420	-3.210	1143.62
599	-285.640	-40.510	-3.210	1143.61
598	-286.400	-40.600	-3.210	1143.60
597	-287.160	-40.690	-3.210	1143.59
596	-287.920	-40.780	-3.240	1143.58
595	-288.680	-40.870	-3.280	1143.57
594	-289.440	-40.960	-3.280	1143.56
593	-290.200	-41.050	-3.280	1143.55
592	-290.960	-41.140	-3.310	1143.54
591	-291.730	-41.230	-3.360	1143.53
590	-292.490	-41.320	-3.360	1143.52
589	-293.250	-41.410	-3.360	1143.51
588	-294.010	-41.500	-3.360	1143.50
587	-294.770	-41.520	-3.360	1143.49
586	-295.560	-41.530	-3.390	1143.48
585	-296.340	-41.550	-3.430	1143.47
584	-297.120	-41.570	-3.430	1143.46
583	-297.900	-41.590	-3.430	1143.45
582	-298.680	-41.600	-3.430	1143.44
581	-299.460	-41.620	-3.450	1143.43
580	-300.240	-41.640	-3.480	1143.42
579	-301.020	-41.660	-3.510	1143.41
578	-301.800	-41.670	-3.510	1143.40
577	-302.580	-41.690	-3.510	1143.39
576	-303.360	-41.710	-3.510	1143.38
575	-304.130	-41.730	-3.510	1143.37
574	-304.910	-41.740	-3.520	1143.36
573	-305.690	-41.760	-3.560	1143.35
572	-306.470	-41.780	-3.580	1143.34
571	-307.250	-41.800	-3.580	1143.33
570	-308.030	-41.810	-3.600	1143.32
569	-308.810	-41.830	-3.630	1143.31
568	-309.590	-41.850	-3.660	1143.30
567	-310.370	-41.870	-3.660	1143.29
566	-311.150	-41.880	-3.660	1143.28
565	-311.930	-41.900	-3.660	1143.27
564	-312.700	-41.920	-3.660	1143.26
563	-313.480	-41.940	-3.660	1143.25
562	-314.260	-41.950	-3.660	1143.24
561	-315.040	-41.970	-3.670	1143.23
560	-315.820	-41.990	-3.710	1143.22
559	-316.600	-42.010	-3.730	1143.21
558	-317.380	-42.020	-3.730	1143.20
557	-318.160	-42.040	-3.730	1143.19
556	-318.940	-42.060	-3.730	1143.18
555	-319.720	-42.080	-3.730	1143.17
554	-320.500	-42.090	-3.770	1143.16
553	-321.270	-42.110	-3.810	1143.15
552	-322.050	-42.130	-3.810	1143.14
551	-322.830	-42.150	-3.820	1143.13
550	-323.610	-42.160	-3.860	1143.12
549	-324.390	-42.180	-3.880	1143.11
548	-325.170	-42.200	-3.880	1143.10
547	-325.950	-42.220	-3.880	1143.09
546	-326.730	-42.230	-3.880	1143.08
545	-327.510	-42.250	-3.880	1143.07

412	-431.000	-40.810	-5.610	1141.73
411	-431.770	-40.790	-5.610	1141.72
410	-432.540	-40.780	-5.610	1141.71
409	-433.310	-40.760	-5.610	1141.70
408	-434.080	-40.740	-5.610	1141.69
407	-434.850	-40.720	-5.610	1141.68
406	-435.620	-40.700	-5.560	1141.67
405	-436.390	-40.690	-5.530	1141.66
404	-437.160	-40.670	-5.530	1141.65
403	-437.930	-40.650	-5.530	1141.64
402	-438.700	-40.630	-5.530	1141.63
401	-439.480	-40.620	-5.530	1141.62
400	-440.250	-40.600	-5.530	1141.61
399	-441.020	-40.580	-5.530	1141.60
398	-441.790	-40.560	-5.530	1141.59
397	-442.560	-40.540	-5.530	1141.58
396	-443.330	-40.530	-5.530	1141.57
395	-444.100	-40.510	-5.530	1141.56
394	-444.870	-40.490	-5.530	1141.55
393	-445.640	-40.470	-5.530	1141.54
392	-446.410	-40.460	-5.530	1141.53
391	-447.180	-40.440	-5.530	1141.52
390	-447.950	-40.420	-5.530	1141.51
389	-448.720	-40.400	-5.530	1141.50
388	-449.500	-40.300	-5.530	1141.49
387	-450.280	-40.200	-5.530	1141.48
386	-451.050	-40.100	-5.530	1141.47
385	-451.830	-40.000	-5.530	1141.46
384	-452.610	-39.900	-5.530	1141.45
383	-453.390	-39.800	-5.530	1141.44
382	-454.160	-39.700	-5.530	1141.43
381	-454.940	-39.600	-5.580	1141.42
380	-455.720	-39.500	-5.610	1141.41
379	-456.500	-39.400	-5.610	1141.40
378	-457.270	-39.300	-5.610	1141.39
377	-458.050	-39.200	-5.610	1141.38
376	-458.830	-39.100	-5.610	1141.37
375	-459.610	-39.000	-5.650	1141.36
374	-460.380	-38.900	-5.680	1141.35
373	-461.160	-38.800	-5.680	1141.34
372	-461.940	-38.700	-5.680	1141.33
371	-462.720	-38.600	-5.700	1141.32
370	-463.490	-38.500	-5.720	1141.31
369	-464.270	-38.400	-5.750	1141.30
368	-465.050	-38.300	-5.760	1141.29
367	-465.830	-38.200	-5.760	1141.28
366	-466.600	-38.100	-5.760	1141.27
365	-467.380	-38.000	-5.780	1141.26
364	-468.160	-37.900	-5.820	1141.25
363	-468.940	-37.800	-5.830	1141.24
362	-469.710	-37.700	-5.830	1141.23
361	-470.490	-37.600	-5.830	1141.22
360	-471.270	-37.500	-5.850	1141.21
359	-472.050	-37.400	-5.890	1141.20
358	-472.820	-37.300	-5.910	1141.19
357	-473.600	-37.200	-5.910	1141.18
356	-474.380	-37.100	-5.930	1141.17
355	-475.160	-37.000	-5.970	1141.16
354	-475.930	-36.900	-5.980	1141.15
353	-476.710	-36.800	-5.980	1141.14
352	-477.490	-36.700	-6.030	1141.13
351	-478.270	-36.600	-6.060	1141.12
350	-479.040	-36.500	-6.060	1141.11
349	-479.820	-36.400	-6.100	1141.10
348	-480.600	-36.300	-6.180	1141.09
347	-481.380	-36.200	-6.210	1141.08

478	-379.730	-39.760	-4.330	1142.39
477	-380.510	-39.800	-4.330	1142.38
476	-381.290	-39.840	-4.370	1142.37
475	-382.070	-39.880	-4.410	1142.36
474	-382.850	-39.920	-4.410	1142.35
473	-383.630	-39.960	-4.410	1142.34
472	-384.420	-40.000	-4.410	1142.33
471	-385.200	-40.040	-4.410	1142.32
470	-385.980	-40.080	-4.450	1142.31
469	-386.760	-40.110	-4.480	1142.30
468	-387.540	-40.150	-4.480	1142.29
467	-388.320	-40.190	-4.480	1142.28
466	-389.100	-40.230	-4.480	1142.27
465	-389.880	-40.270	-4.480	1142.26
464	-390.670	-40.310	-4.520	1142.25
463	-391.450	-40.350	-4.560	1142.24
462	-392.230	-40.390	-4.560	1142.23
461	-393.010	-40.430	-4.560	1142.22
460	-393.790	-40.470	-4.600	1142.21
459	-394.570	-40.510	-4.630	1142.20
458	-395.350	-40.550	-4.630	1142.19
457	-396.130	-40.590	-4.630	1142.18
456	-396.920	-40.630	-4.630	1142.17
455	-397.700	-40.660	-4.630	1142.16
454	-398.480	-40.700	-4.630	1142.15
453	-399.260	-40.740	-4.630	1142.14
452	-400.040	-40.780	-4.670	1142.13
451	-400.820	-40.820	-4.710	1142.12
450	-401.600	-40.860	-4.750	1142.11
449	-402.380	-40.900	-4.780	1142.10
448	-403.170	-40.940	-4.780	1142.09
447	-403.950	-40.980	-4.780	1142.08
446	-404.730	-41.020	-4.780	1142.07
445	-405.510	-41.060	-4.780	1142.06
444	-406.290	-41.100	-4.820	1142.05
443	-407.070	-41.140	-4.860	1142.04
442	-407.850	-41.180	-4.900	1142.03
441	-408.630	-41.210	-4.930	1142.02
440	-409.420	-41.250	-4.930	1142.01
439	-410.200	-41.290	-4.970	1142.00
438	-410.970	-41.280	-5.010	1141.99
437	-411.740	-41.260	-5.050	1141.98
436	-412.510	-41.240	-5.080	1141.97
435	-413.280	-41.220	-5.080	1141.96
434	-414.050	-41.200	-5.080	1141.95
433	-414.820	-41.190	-5.120	1141.94
432	-415.590	-41.170	-5.160	1141.93
431	-416.360	-41.150	-5.160	1141.92
430	-417.130	-41.130	-5.200	1141.91
429	-417.900	-41.110	-5.250	1141.90
428	-418.670	-41.100	-5.290	1141.89
427	-419.440	-41.080	-5.310	1141.88
426	-420.210	-41.060	-5.310	1141.87
425	-420.980	-41.040	-5.310	1141.86
424	-421.750	-41.030	-5.350	1141.85
423	-422.520	-41.010	-5.400	1141.84
422	-423.300	-40.990	-5.440	1141.83
421	-424.070	-40.970	-5.460	1141.82
420	-424.840	-40.950	-5.460	1141.81
419	-425.610	-40.940	-5.460	1141.80
418	-426.380	-40.920	-5.460	1141.79
417	-427.150	-40.900	-5.500	1141.78
416	-427.920	-40.880	-5.530	1141.77
415	-428.690	-40.870	-5.530	1141.76
414	-429.460	-40.850	-5.550	1141.75
413	-430.230	-40.830	-5.590	1141.74

366	-482.150	-36.100	-6.230	1141.07	280	-535.330	-36.480	-6.660	1140.41
365	-482.930	-36.000	-6.270	1141.06	279	-536.150	-36.430	-6.660	1140.40
364	-483.710	-35.900	-6.280	1141.05	278	-536.980	-36.390	-6.680	1140.39
363	-484.490	-35.800	-6.310	1141.04	277	-537.810	-36.350	-6.720	1140.38
362	-485.260	-35.700	-6.340	1141.03	276	-538.630	-36.310	-6.700	1140.37
361	-486.040	-35.600	-6.360	1141.02	275	-539.460	-36.270	-6.670	1140.36
360	-486.820	-35.500	-6.360	1141.01	274	-540.280	-36.220	-6.660	1140.35
359	-487.600	-35.400	-6.360	1141.00	273	-541.110	-36.180	-6.660	1140.34
358	-488.400	-35.420	-6.360	1140.99	272	-541.940	-36.140	-6.710	1140.33
357	-489.210	-35.450	-6.360	1140.98	271	-542.760	-36.100	-6.730	1140.32
356	-490.010	-35.480	-6.380	1140.97	270	-543.590	-36.060	-6.730	1140.31
355	-490.820	-35.510	-6.420	1140.96	269	-544.410	-36.010	-6.680	1140.30
354	-491.630	-35.540	-6.430	1140.95	268	-545.240	-35.970	-6.660	1140.29
353	-492.430	-35.570	-6.430	1140.94	267	-546.070	-35.930	-6.820	1140.28
352	-493.240	-35.600	-6.460	1140.93	266	-546.890	-35.890	-6.880	1140.27
351	-494.040	-35.630	-6.490	1140.92	265	-547.720	-35.850	-6.880	1140.26
350	-494.850	-35.660	-6.510	1140.91	264	-548.540	-35.800	-6.710	1140.25
349	-495.660	-35.690	-6.510	1140.90	263	-549.370	-35.760	-6.660	1140.24
348	-496.460	-35.720	-6.510	1140.89	262	-550.200	-35.720	-6.770	1140.23
347	-497.270	-35.750	-6.510	1140.88	261	-551.020	-35.680	-6.860	1140.22
346	-498.070	-35.770	-6.560	1140.87	260	-551.850	-35.630	-6.940	1140.21
345	-498.880	-35.800	-6.580	1140.86	259	-552.670	-35.590	-6.960	1140.20
344	-499.690	-35.830	-6.580	1140.85	258	-553.500	-35.550	-6.900	1140.19
343	-500.490	-35.860	-6.580	1140.84	257	-554.330	-35.510	-6.880	1140.18
342	-501.300	-35.890	-6.580	1140.83	256	-555.150	-35.470	-6.880	1140.17
341	-502.100	-35.920	-6.580	1140.82	255	-555.980	-35.420	-6.940	1140.16
340	-502.910	-35.950	-6.580	1140.81	254	-556.800	-35.380	-6.960	1140.15
339	-503.720	-35.980	-6.580	1140.80	253	-557.630	-35.340	-6.960	1140.14
338	-504.520	-36.010	-6.580	1140.79	252	-558.450	-35.300	-6.960	1140.13
337	-505.330	-36.070	-6.580	1140.78	251	-559.280	-35.260	-6.900	1140.12
336	-506.130	-36.070	-6.580	1140.77	250	-560.110	-35.210	-6.940	1140.11
335	-506.940	-36.100	-6.580	1140.76	249	-560.930	-35.170	-6.960	1140.10
334	-507.750	-36.120	-6.580	1140.75	248	-561.760	-35.130	-6.960	1140.09
333	-508.550	-36.150	-6.580	1140.74	247	-562.580	-35.090	-6.960	1140.08
332	-509.360	-36.180	-6.580	1140.73	246	-563.410	-35.050	-6.960	1140.07
331	-510.160	-36.210	-6.580	1140.72	245	-564.240	-35.000	-7.010	1140.06
330	-510.970	-36.240	-6.580	1140.71	244	-565.060	-34.960	-6.970	1140.05
329	-511.780	-36.270	-6.580	1140.70	243	-565.890	-34.920	-7.010	1140.04
328	-512.580	-36.300	-6.580	1140.69	242	-566.710	-34.880	-7.030	1140.03
327	-513.390	-36.330	-6.580	1140.68	241	-567.540	-34.840	-6.920	1140.02
326	-514.190	-36.360	-6.580	1140.67	240	-568.370	-34.790	-6.770	1140.01
325	-515.000	-36.390	-6.580	1140.66	239	-569.190	-34.750	-6.790	1140.00
324	-515.810	-36.420	-6.580	1140.65	238	-570.090	-34.690	-6.860	1139.99
323	-516.610	-36.450	-6.580	1140.64	237	-570.990	-34.620	-6.940	1139.98
322	-517.420	-36.470	-6.580	1140.63	236	-571.890	-34.560	-6.900	1139.97
321	-518.220	-36.500	-6.580	1140.62	235	-572.790	-34.490	-6.710	1139.96
320	-519.030	-36.530	-6.580	1140.61	234	-573.680	-34.430	-6.660	1139.95
319	-519.840	-36.560	-6.580	1140.60	233	-574.580	-34.360	-6.660	1139.94
318	-520.640	-36.590	-6.580	1140.59	232	-575.480	-34.300	-6.770	1139.93
317	-521.450	-36.620	-6.580	1140.58	231	-576.380	-34.230	-6.810	1139.92
316	-522.250	-36.650	-6.580	1140.57	230	-577.280	-34.170	-6.810	1139.91
315	-523.060	-36.680	-6.580	1140.56	229	-578.180	-34.100	-6.690	1139.90
314	-523.870	-36.710	-6.580	1140.55	228	-579.080	-34.040	-6.660	1139.89
313	-524.670	-36.740	-6.580	1140.54	227	-579.970	-33.970	-6.770	1139.88
312	-525.480	-36.770	-6.580	1140.53	226	-580.870	-33.910	-6.810	1139.87
311	-526.280	-36.800	-6.580	1140.52	225	-581.770	-33.840	-6.750	1139.86
310	-527.090	-36.820	-6.580	1140.51	224	-582.670	-33.780	-6.730	1139.85
309	-527.900	-36.850	-6.580	1140.50	223	-583.570	-33.710	-6.610	1139.84
308	-528.720	-36.810	-6.580	1140.49	222	-584.470	-33.650	-6.520	1139.83
307	-529.550	-36.770	-6.610	1140.48	221	-585.370	-33.580	-6.510	1139.82
306	-530.370	-36.730	-6.640	1140.47	220	-586.270	-33.520	-6.560	1139.81
305	-531.200	-36.690	-6.660	1140.46	219	-587.160	-33.450	-6.640	1139.80
304	-532.020	-36.640	-6.660	1140.45	218	-588.060	-33.390	-6.830	1139.79
303	-532.850	-36.600	-6.660	1140.44	217	-588.960	-33.320	-6.940	1139.78
302	-533.680	-36.560	-6.660	1140.43	216	-589.860	-33.260	-6.960	1139.77
301	-534.500	-36.520	-6.660	1140.42	215	-590.760	-33.190	-6.960	1139.76

214	-591.660	-33.130	-6.900	1139.75	-6.810	1139.09
213	-592.560	-33.060	-6.880	1139.74	-6.810	1139.08
212	-593.450	-33.000	-6.880	1139.73	-6.810	1139.07
211	-594.350	-32.930	-6.820	1139.72	-6.810	1139.06
210	-595.250	-32.870	-6.690	1139.71	-6.810	1139.05
209	-596.150	-32.800	-6.600	1139.70	-6.680	1139.04
208	-597.050	-32.740	-6.520	1139.69	-6.720	1139.03
207	-597.950	-32.670	-6.510	1139.68	-6.800	1139.02
206	-598.850	-32.610	-6.570	1139.67	-7.000	1139.01
205	-599.740	-32.540	-6.700	1139.66	-7.060	1139.00
204	-600.640	-32.480	-6.730	1139.65	-7.100	1138.99
203	-601.540	-32.410	-6.790	1139.64	-7.040	1138.98
202	-602.440	-32.350	-6.810	1139.63	-7.030	1138.97
201	-603.340	-32.280	-6.680	1139.62	-6.970	1138.96
200	-604.240	-32.220	-6.600	1139.61	-6.890	1138.95
199	-605.140	-32.150	-6.580	1139.60	-6.820	1138.94
198	-606.030	-32.090	-6.460	1139.59	-6.740	1138.93
197	-606.930	-32.020	-6.430	1139.58	-6.800	1138.92
196	-607.830	-31.960	-6.550	1139.57	-6.810	1138.91
195	-608.730	-31.890	-6.640	1139.56	-6.870	1138.90
194	-609.630	-31.830	-6.720	1139.55	-6.880	1138.89
193	-610.530	-31.760	-6.730	1139.54	-6.880	1138.88
192	-611.430	-31.700	-6.730	1139.53	-6.880	1138.87
191	-612.320	-31.630	-6.730	1139.52	-6.950	1138.86
190	-613.220	-31.570	-6.730	1139.51	-7.020	1138.85
189	-614.120	-31.500	-6.670	1139.50	-7.030	1138.84
188	-614.940	-31.470	-6.590	1139.49	-6.960	1138.83
187	-615.550	-31.440	-6.580	1139.48	-7.020	1138.82
186	-616.270	-31.410	-6.520	1139.47	-7.100	1138.81
185	-616.980	-31.380	-6.510	1139.46	-7.020	1138.80
184	-617.690	-31.350	-6.440	1139.45	-6.970	1138.79
183	-618.410	-31.320	-6.430	1139.44	-6.960	1138.78
182	-619.120	-31.280	-6.430	1139.43	-6.960	1138.77
181	-619.840	-31.250	-6.430	1139.42	-6.890	1138.76
180	-620.550	-31.220	-6.370	1139.41	-6.880	1138.75
179	-621.270	-31.190	-6.360	1139.40	-6.810	1138.74
178	-621.980	-31.160	-6.360	1139.39	-6.870	1138.73
177	-622.700	-31.130	-6.480	1139.38	-6.950	1138.72
176	-623.410	-31.100	-6.570	1139.37	-6.960	1138.71
175	-624.130	-31.070	-6.610	1139.36	-7.020	1138.70
174	-624.840	-31.030	-6.650	1139.35	-7.100	1138.69
173	-625.560	-31.000	-6.590	1139.34	-7.040	1138.68
172	-626.270	-30.970	-6.580	1139.33	-6.960	1138.67
171	-626.990	-30.940	-6.640	1139.32	-6.960	1138.66
170	-627.700	-30.910	-6.690	1139.31	-7.020	1138.65
169	-628.420	-30.880	-6.720	1139.30	-7.030	1138.64
168	-629.130	-30.850	-6.750	1139.29	-7.030	1138.63
167	-629.840	-30.810	-6.780	1139.28	-7.030	1138.62
166	-630.560	-30.780	-6.800	1139.27	-6.960	1138.61
165	-631.270	-30.750	-6.810	1139.26	-6.890	1138.60
164	-631.990	-30.720	-6.810	1139.25	-6.950	1138.59
163	-632.700	-30.690	-6.740	1139.24	-7.090	1138.58
162	-633.420	-30.660	-6.670	1139.23	-7.040	1138.57
161	-634.130	-30.630	-6.660	1139.22	-6.960	1138.56
160	-634.850	-30.600	-6.720	1139.21	-6.960	1138.55
159	-635.560	-30.560	-6.670	1139.20	-6.960	1138.54
158	-636.280	-30.530	-6.660	1139.19	-6.960	1138.53
157	-636.990	-30.500	-6.660	1139.18	-6.960	1138.52
156	-637.710	-30.470	-6.780	1139.17	-6.890	1138.51
155	-638.420	-30.440	-6.870	1139.16	-6.810	1138.50
154	-639.140	-30.410	-6.880	1139.15	-6.870	1138.49
153	-639.850	-30.380	-6.880	1139.14	-6.950	1138.48
152	-640.560	-30.340	-6.940	1139.13	-7.020	1138.47
151	-641.280	-30.310	-6.960	1139.12	-7.030	1138.46
150	-641.990	-30.280	-6.890	1139.11	-7.100	1138.45
149	-642.710	-30.250	-6.820	1139.10	-7.110	1138.44

PT. #	X (m)	Y (m)	Z (m)	TIME	COMMENTS
16	-762.410	-23.920	-7.030	1137.77	
15	-763.320	-23.870	-6.960	1137.76	
14	-764.240	-23.820	-6.900	1137.75	
13	-765.150	-23.770	-7.100	1137.74	
12	-766.070	-23.720	-7.180	1137.73	
11	-766.980	-23.680	-7.180	1137.72	
10	-767.900	-23.630	-7.260	1137.71	
9	-768.810	-23.580	-7.260	1137.70	
8	-769.730	-23.530	-7.180	1137.69	
7	-770.640	-23.480	-7.110	1137.68	
6	-771.560	-23.430	-7.250	1137.67	
5	-772.470	-23.380	-7.330	1137.66	
4	-773.390	-23.330	-7.410	1137.65	
3	-774.300	-23.280	-7.480	1137.64	
2	-775.220	-23.230	-7.410	1137.63	
1	-776.130	-23.190	-7.410	1137.62	
NORTH LINE 1 (MERGED ON- & OFFSHORE PROFILES)					
20 April 1990 1622 to 1652 (CDT) (ONSHORE)					
22 April 1990 1126 to 1134 (CDT) (OFFSHORE)					
Average offset = -0.398117m					
PT. #	X (m)	Y (m)	Z (m)	TIME	COMMENTS
292	44.384	-15.305	3.010		
291	43.419	-15.255	2.853		
290	32.116	-15.263	2.344		
289	20.168	-15.048	2.163		
288	10.518	-14.951	2.255		
287	-0.030	-15.077	2.813		
286	-3.816	-14.909	3.018		
285	-7.688	-14.938	2.911		
284	-10.524	-14.884	2.602		
283	-18.902	-14.591	1.897		
282	-28.739	-14.445	1.596		
281	-38.078	-14.726	0.963		
280	-41.600	-14.723	0.953		
279	-46.778	-14.610	0.314		
278	-49.314	-14.233	-0.112		
277	-55.034	-14.196	-0.191		
276	-62.181	-14.552	-0.182		
275	-71.325	-14.022	-0.135		
274	-79.018	-14.292	-0.321		
273	-87.038	-14.234	-0.506		
272	-91.540	-16.510	-0.695		
271	-92.210	-16.540	-0.705		
270	-92.870	-16.560	-0.735		
269	-93.530	-16.590	-0.775		
268	-94.200	-16.620	-0.775		
267	-94.860	-16.640	-0.785		
266	-95.520	-16.670	-0.845		
265	-96.190	-16.690	-0.845		
264	-96.850	-16.720	-0.855		
263	-97.510	-16.750	-0.885		
262	-98.180	-16.770	-0.925		
261	-98.840	-16.800	-0.925		
260	-99.500	-16.830	-0.925		
259	-100.170	-16.850	-0.925		
258	-100.830	-16.880	-0.925		
257	-101.490	-16.900	-0.925		
256	-102.160	-16.930	-0.925		
255	-102.820	-16.960	-0.925		
254	-103.480	-16.980	-0.925		
253	-104.150	-17.010	-0.935		
252	-104.810	-17.040	-0.995		
251	-105.470	-17.060	-0.995		
250	-106.140	-17.090	-0.995		
249	-106.850	-17.110	-0.995		

Waterline

1133.22
1133.21
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1133.00
1132.99

82	-702.010	-27.150	-7.110	1138.43	
81	-702.930	-27.100	-7.040	1138.42	
80	-703.840	-27.050	-7.030	1138.41	
79	-704.760	-27.000	-7.030	1138.40	
78	-705.670	-26.950	-7.030	1138.39	
77	-706.590	-26.900	-7.030	1138.38	
76	-707.500	-26.860	-7.030	1138.37	
75	-708.420	-26.810	-7.030	1138.36	
74	-709.330	-26.760	-7.030	1138.35	
73	-710.250	-26.710	-7.030	1138.34	
72	-711.160	-26.660	-6.960	1138.33	
71	-712.080	-26.610	-6.960	1138.32	
70	-712.990	-26.560	-7.030	1138.31	
69	-713.910	-26.510	-7.100	1138.30	
68	-714.820	-26.460	-7.040	1138.29	
67	-715.740	-26.410	-7.030	1138.28	
66	-716.650	-26.370	-7.030	1138.27	
65	-717.570	-26.320	-6.960	1138.26	
64	-718.480	-26.270	-6.960	1138.25	
63	-719.400	-26.220	-6.960	1138.24	
62	-720.310	-26.170	-6.960	1138.23	
61	-721.230	-26.120	-6.810	1138.22	
60	-722.140	-26.070	-6.660	1138.21	
59	-723.060	-26.020	-6.660	1138.20	
58	-723.970	-25.970	-6.660	1138.19	
57	-724.890	-25.930	-6.730	1138.18	
56	-725.800	-25.880	-6.660	1138.17	
55	-726.720	-25.830	-6.800	1138.16	
54	-727.630	-25.780	-6.810	1138.15	
53	-728.550	-25.730	-6.810	1138.14	
52	-729.460	-25.680	-6.810	1138.13	
51	-730.380	-25.630	-6.810	1138.12	
50	-731.290	-25.580	-6.880	1138.11	
49	-732.210	-25.530	-6.880	1138.10	
48	-733.120	-25.490	-6.950	1138.09	
47	-734.040	-25.440	-6.960	1138.08	
46	-734.950	-25.390	-6.880	1138.07	
45	-735.870	-25.340	-6.880	1138.06	
44	-736.780	-25.290	-6.810	1138.05	
43	-737.700	-25.240	-6.810	1138.04	
42	-738.610	-25.190	-6.880	1138.03	
41	-739.530	-25.140	-6.880	1138.02	
40	-740.440	-25.090	-6.810	1138.01	
39	-741.360	-25.040	-6.950	1138.00	
38	-742.280	-25.000	-6.960	1137.99	
37	-743.190	-24.950	-7.100	1137.98	
36	-744.110	-24.900	-7.110	1137.97	
35	-745.020	-24.850	-6.960	1137.96	
34	-745.940	-24.800	-6.880	1137.95	
33	-746.850	-24.750	-6.880	1137.94	
32	-747.770	-24.700	-6.950	1137.93	
31	-748.680	-24.650	-6.960	1137.92	
30	-749.600	-24.600	-6.960	1137.91	
29	-750.510	-24.560	-7.030	1137.90	
28	-751.430	-24.510	-7.100	1137.89	
27	-752.340	-24.460	-7.110	1137.88	
26	-753.260	-24.410	-7.110	1137.87	
25	-754.170	-24.360	-7.110	1137.86	
24	-755.090	-24.310	-7.110	1137.85	
23	-756.000	-24.260	-7.110	1137.84	
22	-756.920	-24.210	-7.110	1137.83	
21	-757.830	-24.160	-7.250	1137.82	
20	-758.750	-24.120	-7.260	1137.81	
19	-759.660	-24.070	-7.260	1137.80	
18	-760.580	-24.020	-7.180	1137.79	
17	-761.490	-23.970	-7.030	1137.78	

786	-155.600	-17.720	-2.425	1132.32
785	-156.320	-17.740	-2.425	1132.31
784	-157.050	-17.750	-2.405	1132.30
783	-157.770	-17.770	-2.345	1132.29
782	-158.500	-17.780	-2.345	1132.28
781	-159.230	-17.800	-2.345	1132.27
780	-159.950	-17.820	-2.345	1132.26
779	-160.680	-17.830	-2.335	1132.25
778	-161.410	-17.850	-2.295	1132.24
777	-162.130	-17.860	-2.255	1132.23
776	-162.860	-17.880	-2.195	1132.22
775	-163.590	-17.890	-2.195	1132.21
774	-164.310	-17.910	-2.195	1132.20
773	-165.040	-17.920	-2.195	1132.19
772	-165.760	-17.940	-2.195	1132.18
771	-166.490	-17.950	-2.195	1132.17
770	-167.220	-17.970	-2.195	1132.16
769	-167.940	-17.980	-2.195	1132.15
768	-168.670	-18.000	-2.195	1132.14
767	-169.400	-18.010	-2.195	1132.13
766	-170.120	-18.030	-2.195	1132.12
765	-170.850	-18.040	-2.195	1132.11
764	-171.570	-18.060	-2.185	1132.10
763	-172.300	-18.070	-2.145	1132.09
762	-173.030	-18.090	-2.135	1132.08
761	-173.750	-18.100	-2.165	1132.07
760	-174.480	-18.120	-2.195	1132.06
759	-175.210	-18.130	-2.175	1132.05
758	-175.930	-18.150	-2.135	1132.04
757	-176.660	-18.170	-2.175	1132.03
756	-177.380	-18.180	-2.125	1132.02
755	-178.110	-18.200	-2.125	1132.01
754	-178.840	-18.210	-2.155	1132.00
753	-179.570	-18.230	-2.175	1131.99
752	-180.310	-18.250	-2.195	1131.98
751	-181.040	-18.270	-2.195	1131.97
750	-181.780	-18.290	-2.185	1131.96
749	-182.510	-18.320	-2.145	1131.95
748	-183.250	-18.340	-2.125	1131.94
747	-183.980	-18.360	-2.125	1131.93
746	-184.720	-18.380	-2.125	1131.92
745	-185.450	-18.400	-2.125	1131.91
744	-186.180	-18.420	-2.125	1131.90
743	-186.920	-18.440	-2.095	1131.89
742	-187.650	-18.460	-2.045	1131.88
741	-188.390	-18.480	-2.045	1131.87
740	-189.120	-18.500	-2.045	1131.86
739	-189.860	-18.530	-2.025	1131.85
738	-190.590	-18.550	-1.975	1131.84
737	-191.330	-18.570	-1.975	1131.83
736	-192.060	-18.590	-1.975	1131.82
735	-192.800	-18.610	-1.955	1131.81
734	-193.530	-18.630	-1.925	1131.80
733	-194.270	-18.650	-1.875	1131.79
732	-195.000	-18.670	-1.825	1131.78
731	-195.740	-18.690	-1.825	1131.77
730	-196.470	-18.710	-1.795	1131.76
729	-197.210	-18.730	-1.745	1131.75
728	-197.940	-18.760	-1.745	1131.74
727	-198.680	-18.780	-1.725	1131.73
726	-199.410	-18.800	-1.675	1131.72
725	-200.150	-18.820	-1.645	1131.71
724	-200.880	-18.840	-1.585	1131.70
723	-201.610	-18.860	-1.545	1131.69
722	-202.350	-18.880	-1.525	1131.68
721	-203.080	-18.900	-1.525	1131.67

852	-107.570	-17.130	-0.995	1132.98
851	-108.280	-17.160	-0.985	1132.97
850	-108.990	-17.180	-0.925	1132.96
849	-109.710	-17.200	-0.925	1132.95
848	-110.420	-17.220	-0.925	1132.94
847	-111.140	-17.250	-0.925	1132.93
846	-111.850	-17.270	-0.905	1132.92
845	-112.560	-17.290	-0.845	1132.91
844	-113.280	-17.310	-0.845	1132.90
843	-113.990	-17.340	-0.845	1132.89
842	-114.710	-17.360	-0.845	1132.88
841	-115.420	-17.380	-0.845	1132.87
840	-116.130	-17.400	-0.845	1132.86
839	-116.850	-17.430	-0.855	1132.85
838	-117.560	-17.450	-0.925	1132.84
837	-118.280	-17.470	-0.925	1132.83
836	-118.990	-17.500	-0.935	1132.82
835	-119.700	-17.520	-0.995	1132.81
834	-120.420	-17.540	-1.005	1132.80
833	-121.130	-17.560	-1.085	1132.79
832	-121.850	-17.590	-1.145	1132.78
831	-122.560	-17.610	-1.155	1132.77
830	-123.270	-17.630	-1.235	1132.76
829	-123.990	-17.650	-1.305	1132.75
828	-124.730	-17.680	-1.375	1132.74
827	-125.470	-17.640	-1.375	1132.73
826	-126.210	-17.630	-1.415	1132.72
825	-126.950	-17.620	-1.465	1132.71
824	-127.690	-17.610	-1.525	1132.70
823	-128.440	-17.610	-1.565	1132.69
822	-129.180	-17.600	-1.615	1132.68
821	-129.920	-17.590	-1.685	1132.67
820	-130.660	-17.580	-1.745	1132.66
819	-131.400	-17.570	-1.765	1132.65
818	-132.140	-17.560	-1.835	1132.64
817	-132.880	-17.560	-1.895	1132.63
816	-133.630	-17.550	-1.905	1132.62
815	-134.370	-17.540	-1.945	1132.61
814	-135.110	-17.530	-1.975	1132.60
813	-135.850	-17.520	-1.975	1132.59
812	-136.590	-17.520	-1.975	1132.58
811	-137.330	-17.510	-2.015	1132.57
810	-138.070	-17.500	-2.055	1132.56
809	-138.820	-17.490	-2.095	1132.55
808	-139.560	-17.480	-2.125	1132.54
807	-140.300	-17.470	-2.135	1132.53
806	-141.040	-17.470	-2.195	1132.52
805	-141.780	-17.460	-2.215	1132.51
804	-142.520	-17.450	-2.275	1132.50
803	-143.250	-17.470	-2.285	1132.49
802	-143.980	-17.480	-2.365	1132.48
801	-144.730	-17.500	-2.435	1132.47
800	-145.430	-17.510	-2.495	1132.46
799	-146.150	-17.530	-2.495	1132.45
798	-146.880	-17.540	-2.495	1132.44
797	-147.610	-17.560	-2.485	1132.43
796	-148.330	-17.570	-2.445	1132.42
795	-149.060	-17.590	-2.425	1132.41
794	-149.790	-17.600	-2.425	1132.40
793	-150.510	-17.620	-2.425	1132.39
792	-151.240	-17.630	-2.425	1132.38
791	-151.960	-17.650	-2.425	1132.37
790	-152.690	-17.660	-2.425	1132.36
789	-153.420	-17.680	-2.425	1132.35
788	-154.140	-17.690	-2.425	1132.34
787	-154.870	-17.710	-2.425	1132.33

654	-252.460	-19.720	-2.635	1131.00
653	-253.200	-19.700	-2.645	1130.99
652	-253.950	-19.680	-2.645	1130.98
651	-254.690	-19.660	-2.645	1130.97
650	-255.430	-19.640	-2.655	1130.96
649	-256.170	-19.620	-2.695	1130.95
648	-256.910	-19.600	-2.725	1130.94
647	-257.650	-19.570	-2.725	1130.93
646	-258.390	-19.550	-2.745	1130.92
645	-259.130	-19.530	-2.795	1130.91
644	-259.870	-19.510	-2.795	1130.90
643	-260.620	-19.490	-2.795	1130.89
642	-261.360	-19.470	-2.805	1130.88
641	-262.100	-19.450	-2.845	1130.87
640	-262.840	-19.430	-2.875	1130.86
639	-263.580	-19.400	-2.875	1130.85
638	-264.320	-19.380	-2.875	1130.84
637	-265.060	-19.360	-2.875	1130.83
636	-265.800	-19.340	-2.885	1130.82
635	-266.550	-19.320	-2.925	1130.81
634	-267.290	-19.300	-2.945	1130.80
633	-268.030	-19.280	-2.955	1130.79
632	-268.770	-19.260	-2.995	1130.78
631	-269.510	-19.240	-3.025	1130.77
630	-270.250	-19.210	-3.025	1130.76
629	-270.990	-19.190	-3.025	1130.75
628	-271.730	-19.170	-3.035	1130.74
627	-272.470	-19.150	-3.075	1130.73
626	-273.220	-19.130	-3.095	1130.72
625	-273.960	-19.110	-3.095	1130.71
624	-274.700	-19.090	-3.095	1130.70
623	-275.440	-19.070	-3.095	1130.69
622	-276.180	-19.040	-3.095	1130.68
621	-276.920	-19.020	-3.125	1130.67
620	-277.660	-19.000	-3.175	1130.66
619	-278.400	-18.980	-3.175	1130.65
618	-279.150	-18.960	-3.175	1130.64
617	-279.890	-18.940	-3.175	1130.63
616	-280.630	-18.920	-3.185	1130.62
615	-281.370	-18.900	-3.225	1130.61
614	-282.110	-18.880	-3.245	1130.60
613	-282.850	-18.850	-3.245	1130.59
612	-283.590	-18.830	-3.245	1130.58
611	-284.330	-18.810	-3.265	1130.57
610	-285.070	-18.790	-3.295	1130.56
609	-285.820	-18.770	-3.325	1130.55
608	-286.560	-18.750	-3.325	1130.54
607	-287.300	-18.730	-3.265	1130.53
606	-288.040	-18.710	-3.295	1130.52
605	-288.780	-18.690	-3.325	1130.51
604	-289.520	-18.660	-3.325	1130.50
603	-290.280	-18.640	-3.325	1130.49
602	-291.050	-18.620	-3.325	1130.48
601	-291.810	-18.600	-3.325	1130.47
600	-292.570	-18.580	-3.355	1130.46
599	-293.330	-18.550	-3.395	1130.45
598	-294.090	-18.530	-3.395	1130.44
597	-294.850	-18.510	-3.395	1130.43
596	-295.620	-18.490	-3.415	1130.42
595	-296.380	-18.460	-3.445	1130.41
594	-297.140	-18.440	-3.475	1130.40
593	-297.900	-18.420	-3.475	1130.39
592	-298.660	-18.400	-3.475	1130.38
591	-299.430	-18.380	-3.475	1130.37
590	-300.190	-18.350	-3.475	1130.36
589	-300.950	-18.330	-3.475	1130.35

720	-203.820	-18.920	-1.525	1131.66
719	-204.550	-18.940	-1.525	1131.65
718	-205.290	-18.960	-1.525	1131.64
717	-206.020	-18.990	-1.495	1131.63
716	-206.760	-19.010	-1.455	1131.62
715	-207.490	-19.030	-1.495	1131.61
714	-208.230	-19.050	-1.525	1131.60
713	-208.960	-19.070	-1.525	1131.59
712	-209.700	-19.090	-1.525	1131.58
711	-210.430	-19.110	-1.525	1131.57
710	-211.170	-19.130	-1.525	1131.56
709	-211.900	-19.150	-1.525	1131.55
708	-212.640	-19.170	-1.545	1131.54
707	-213.370	-19.200	-1.595	1131.53
706	-214.110	-19.220	-1.595	1131.52
705	-214.840	-19.240	-1.595	1131.51
704	-215.580	-19.260	-1.605	1131.50
703	-216.310	-19.270	-1.645	1131.49
702	-217.050	-19.280	-1.675	1131.48
701	-217.790	-19.290	-1.675	1131.47
700	-218.530	-19.300	-1.675	1131.46
699	-219.260	-19.300	-1.675	1131.45
698	-220.000	-19.310	-1.695	1131.44
697	-220.740	-19.320	-1.745	1131.43
696	-221.480	-19.330	-1.755	1131.42
695	-222.210	-19.340	-1.795	1131.41
694	-222.950	-19.350	-1.825	1131.40
693	-223.690	-19.360	-1.845	1131.39
692	-224.430	-19.370	-1.895	1131.38
691	-225.170	-19.380	-1.895	1131.37
690	-225.900	-19.390	-1.895	1131.36
689	-226.640	-19.400	-1.905	1131.35
688	-227.380	-19.410	-1.945	1131.34
687	-228.120	-19.420	-1.975	1131.33
686	-228.850	-19.430	-1.975	1131.32
685	-229.590	-19.430	-1.985	1131.31
684	-230.330	-19.440	-2.025	1131.30
683	-231.070	-19.450	-2.045	1131.29
682	-231.810	-19.460	-2.075	1131.28
681	-232.540	-19.470	-2.125	1131.27
680	-233.280	-19.480	-2.125	1131.26
679	-234.020	-19.490	-2.145	1131.25
678	-234.760	-19.500	-2.195	1131.24
677	-235.490	-19.510	-2.195	1131.23
676	-236.230	-19.520	-2.195	1131.22
675	-236.970	-19.530	-2.195	1131.21
674	-237.710	-19.540	-2.195	1131.20
673	-238.450	-19.550	-2.195	1131.19
672	-239.180	-19.550	-2.225	1131.18
671	-239.920	-19.560	-2.275	1131.17
670	-240.660	-19.570	-2.295	1131.16
669	-241.400	-19.580	-2.345	1131.15
668	-242.130	-19.590	-2.345	1131.14
667	-242.870	-19.600	-2.375	1131.13
666	-243.610	-19.610	-2.425	1131.12
665	-244.350	-19.620	-2.425	1131.11
664	-245.090	-19.630	-2.425	1131.10
663	-245.820	-19.640	-2.425	1131.09
662	-246.560	-19.650	-2.425	1131.08
661	-247.300	-19.660	-2.425	1131.07
660	-248.040	-19.670	-2.445	1131.06
659	-248.770	-19.680	-2.495	1131.05
658	-249.510	-19.680	-2.525	1131.04
657	-250.250	-19.690	-2.575	1131.03
656	-250.990	-19.700	-2.595	1131.02
655	-251.730	-19.710	-2.615	1131.01

522	-351.490	-18.350	-3.995	1129.68
521	-352.240	-18.370	-3.995	1129.67
520	-352.990	-18.400	-3.995	1129.66
519	-353.730	-18.420	-3.995	1129.65
518	-354.480	-18.450	-4.035	1129.64
517	-355.220	-18.470	-4.075	1129.63
516	-355.970	-18.500	-4.075	1129.62
515	-356.720	-18.520	-4.075	1129.61
514	-357.460	-18.550	-4.075	1129.60
513	-358.210	-18.570	-4.075	1129.59
512	-358.960	-18.600	-4.085	1129.58
511	-359.700	-18.620	-4.125	1129.57
510	-361.190	-18.670	-4.145	1129.55
509	-361.940	-18.700	-4.145	1129.54
508	-362.690	-18.720	-4.145	1129.53
507	-363.430	-18.750	-4.165	1129.52
506	-364.180	-18.770	-4.205	1129.51
505	-364.930	-18.800	-4.225	1129.50
504	-365.680	-18.840	-4.225	1129.49
503	-366.440	-18.890	-4.225	1129.48
502	-367.200	-18.940	-4.255	1129.47
501	-367.960	-18.980	-4.255	1129.46
500	-368.710	-19.030	-4.255	1129.45
499	-369.470	-19.080	-4.295	1129.44
498	-370.230	-19.130	-4.295	1129.43
497	-370.990	-19.170	-4.295	1129.42
496	-371.740	-19.220	-4.305	1129.41
495	-372.500	-19.270	-4.335	1129.40
494	-373.260	-19.310	-4.335	1129.39
493	-374.020	-19.360	-4.375	1129.38
492	-374.770	-19.410	-4.375	1129.37
491	-375.530	-19.460	-4.375	1129.36
490	-376.290	-19.500	-4.405	1129.35
489	-377.050	-19.550	-4.445	1129.34
488	-377.800	-19.600	-4.445	1129.33
487	-378.560	-19.640	-4.465	1129.32
486	-379.320	-19.690	-4.505	1129.31
485	-380.080	-19.740	-4.525	1129.30
484	-380.830	-19.790	-4.525	1129.29
483	-381.590	-19.830	-4.525	1129.28
482	-382.350	-19.880	-4.565	1129.27
481	-383.110	-19.930	-4.595	1129.26
480	-383.860	-19.980	-4.595	1129.25
479	-384.620	-20.020	-4.605	1129.24
478	-385.380	-20.070	-4.625	1129.23
477	-386.140	-20.120	-4.645	1129.22
476	-386.890	-20.160	-4.665	1129.21
475	-387.650	-20.210	-4.715	1129.20
474	-388.410	-20.260	-4.745	1129.19
473	-389.170	-20.310	-4.745	1129.18
472	-389.920	-20.350	-4.745	1129.17
471	-390.680	-20.400	-4.765	1129.16
470	-391.440	-20.450	-4.805	1129.15
469	-392.200	-20.490	-4.825	1129.14
468	-392.950	-20.540	-4.825	1129.13
467	-393.710	-20.590	-4.865	1129.12
466	-394.470	-20.640	-4.895	1129.11
465	-395.230	-20.680	-4.895	1129.10
464	-395.980	-20.730	-4.935	1129.09
463	-396.740	-20.780	-4.975	1129.08
462	-397.500	-20.830	-4.975	1129.07
461	-398.260	-20.870	-5.015	1129.06
460	-399.020	-20.920	-5.065	1129.05
459	-399.770	-20.970	-5.105	1129.04
458	-400.530	-21.010	-5.125	1129.03
457	-401.290	-21.060	-5.165	1129.02

588	-301.710	-18.310	-3.485	1130.34
587	-302.470	-18.290	-3.525	1130.33
586	-303.240	-18.270	-3.545	1130.32
585	-304.000	-18.240	-3.545	1130.31
584	-304.760	-18.220	-3.545	1130.30
583	-305.520	-18.200	-3.545	1130.29
582	-306.280	-18.180	-3.545	1130.28
581	-307.040	-18.150	-3.545	1130.27
580	-307.810	-18.130	-3.545	1130.26
579	-308.570	-18.110	-3.545	1130.25
578	-309.330	-18.090	-3.545	1130.24
577	-310.090	-18.070	-3.545	1130.23
576	-310.850	-18.040	-3.575	1130.22
575	-311.620	-18.020	-3.625	1130.21
574	-312.380	-18.000	-3.625	1130.20
573	-313.140	-17.980	-3.625	1130.19
572	-313.900	-17.960	-3.625	1130.18
571	-314.660	-17.930	-3.625	1130.17
570	-315.420	-17.910	-3.625	1130.16
569	-316.190	-17.890	-3.625	1130.15
568	-316.950	-17.870	-3.625	1130.14
567	-317.710	-17.840	-3.625	1130.13
566	-318.470	-17.820	-3.625	1130.12
565	-319.230	-17.800	-3.625	1130.11
564	-320.000	-17.780	-3.635	1130.10
563	-320.760	-17.760	-3.655	1130.09
562	-321.520	-17.730	-3.685	1130.08
561	-322.280	-17.710	-3.695	1130.07
560	-323.040	-17.690	-3.725	1130.06
559	-323.800	-17.670	-3.735	1130.05
558	-324.570	-17.650	-3.695	1130.04
557	-325.330	-17.620	-3.695	1130.03
556	-326.090	-17.600	-3.695	1130.02
555	-326.850	-17.580	-3.725	1130.01
554	-327.610	-17.560	-3.735	1130.00
553	-328.360	-17.580	-3.735	1129.99
552	-329.110	-17.610	-3.705	1129.98
551	-329.850	-17.630	-3.695	1129.97
550	-330.600	-17.660	-3.735	1129.96
549	-331.350	-17.680	-3.775	1129.95
548	-332.090	-17.710	-3.775	1129.94
547	-332.840	-17.730	-3.775	1129.93
546	-333.580	-17.760	-3.775	1129.92
545	-334.330	-17.780	-3.775	1129.91
544	-335.080	-17.800	-3.775	1129.90
543	-335.820	-17.830	-3.775	1129.89
542	-336.570	-17.850	-3.775	1129.88
541	-337.310	-17.880	-3.775	1129.87
540	-338.060	-17.900	-3.785	1129.86
539	-338.810	-17.930	-3.825	1129.85
538	-339.550	-17.950	-3.845	1129.84
537	-340.300	-17.980	-3.845	1129.83
536	-341.050	-18.000	-3.845	1129.82
535	-341.790	-18.030	-3.845	1129.81
534	-342.540	-18.050	-3.845	1129.80
533	-343.280	-18.080	-3.845	1129.79
532	-344.030	-18.100	-3.845	1129.78
531	-344.780	-18.130	-3.845	1129.77
530	-345.520	-18.150	-3.885	1129.76
529	-346.270	-18.180	-3.925	1129.75
528	-347.020	-18.200	-3.925	1129.74
527	-347.760	-18.230	-3.955	1129.73
526	-348.510	-18.250	-3.975	1129.72
525	-349.250	-18.280	-3.935	1129.71
524	-350.000	-18.300	-3.935	1129.70
523	-350.750	-18.320	-3.975	1129.69

390	-451.700	-21.240	-6.425	1128.35
389	-452.440	-21.200	-6.395	1128.34
388	-453.190	-21.170	-6.445	1128.33
387	-453.930	-21.130	-6.515	1128.32
386	-454.680	-21.090	-6.545	1128.31
385	-455.430	-21.060	-6.545	1128.30
384	-456.170	-21.020	-6.545	1128.29
383	-456.920	-20.980	-6.455	1128.28
382	-457.660	-20.950	-6.395	1128.27
381	-458.410	-20.910	-6.345	1128.26
380	-459.160	-20.880	-6.325	1128.25
379	-459.900	-20.840	-6.415	1128.24
378	-460.650	-20.800	-6.475	1128.23
377	-461.390	-20.770	-6.515	1128.22
376	-462.140	-20.730	-6.495	1128.21
375	-462.890	-20.700	-6.475	1128.20
374	-463.630	-20.660	-6.475	1128.19
373	-464.380	-20.620	-6.475	1128.18
372	-465.120	-20.590	-6.475	1128.17
371	-465.870	-20.550	-6.475	1128.16
370	-466.610	-20.510	-6.475	1128.15
369	-467.360	-20.480	-6.425	1128.14
368	-468.110	-20.440	-6.395	1128.13
367	-468.850	-20.410	-6.445	1128.12
366	-469.600	-20.370	-6.565	1128.11
365	-470.340	-20.330	-6.665	1128.10
364	-471.090	-20.300	-6.695	1128.09
363	-471.840	-20.260	-6.695	1128.08
362	-472.580	-20.220	-6.695	1128.07
361	-473.330	-20.190	-6.695	1128.06
360	-474.070	-20.150	-6.695	1128.05
359	-474.820	-20.120	-6.695	1128.04
358	-475.570	-20.080	-6.745	1128.03
357	-476.310	-20.040	-6.775	1128.02
356	-477.060	-20.010	-6.775	1128.01
355	-477.800	-19.970	-6.775	1128.00
354	-478.550	-19.900	-6.775	1127.99
353	-479.300	-19.840	-6.745	1127.98
352	-480.050	-19.770	-6.705	1127.97
351	-480.800	-19.700	-6.695	1127.96
350	-481.550	-19.640	-6.695	1127.95
349	-482.300	-19.570	-6.695	1127.94
348	-483.050	-19.500	-6.695	1127.93
347	-483.800	-19.430	-6.695	1127.92
346	-484.540	-19.370	-6.695	1127.91
345	-485.290	-19.300	-6.745	1127.90
344	-486.040	-19.230	-6.825	1127.89
343	-486.790	-19.170	-6.795	1127.88
342	-487.540	-19.100	-6.775	1127.87
341	-488.290	-19.030	-6.725	1127.86
340	-489.040	-18.960	-6.695	1127.85
339	-489.790	-18.900	-6.695	1127.84
338	-490.540	-18.830	-6.695	1127.83
337	-491.290	-18.760	-6.695	1127.82
336	-492.030	-18.700	-6.695	1127.81
335	-492.780	-18.630	-6.695	1127.80
334	-493.530	-18.560	-6.695	1127.79
333	-494.280	-18.490	-6.675	1127.78
332	-495.030	-18.430	-6.635	1127.77
331	-495.780	-18.360	-6.675	1127.76
330	-496.530	-18.290	-6.695	1127.75
329	-497.280	-18.230	-6.695	1127.74
328	-498.030	-18.160	-6.695	1127.73
327	-498.780	-18.090	-6.695	1127.72
326	-499.520	-18.020	-6.695	1127.71
325	-500.270	-17.960	-6.725	1127.70

456	-402.050	-21.110	-5.195	1129.01
455	-402.800	-21.160	-5.195	1129.00
454	-403.560	-21.170	-5.235	1128.99
453	-404.310	-21.180	-5.275	1128.98
452	-405.070	-21.190	-5.275	1128.97
451	-405.820	-21.210	-5.315	1128.96
450	-406.570	-21.220	-5.345	1128.95
449	-407.330	-21.230	-5.345	1128.94
448	-408.080	-21.240	-5.385	1128.93
447	-408.840	-21.260	-5.465	1128.92
446	-409.590	-21.270	-5.535	1128.91
445	-410.340	-21.280	-5.615	1128.90
444	-411.100	-21.290	-5.665	1128.89
443	-411.850	-21.310	-5.705	1128.88
442	-412.610	-21.320	-5.765	1128.87
441	-413.360	-21.330	-5.795	1128.86
440	-414.110	-21.340	-5.795	1128.85
439	-414.870	-21.360	-5.835	1128.84
438	-415.620	-21.370	-5.915	1128.83
437	-416.380	-21.380	-5.945	1128.82
436	-417.130	-21.390	-5.945	1128.81
435	-417.890	-21.410	-5.985	1128.80
434	-418.640	-21.420	-6.025	1128.79
433	-419.390	-21.430	-6.025	1128.78
432	-420.150	-21.440	-5.975	1128.77
431	-420.900	-21.460	-5.945	1128.76
430	-421.660	-21.470	-5.985	1128.75
429	-422.410	-21.480	-5.975	1128.74
428	-423.160	-21.490	-5.855	1128.73
427	-423.920	-21.510	-5.795	1128.72
426	-424.670	-21.520	-5.755	1128.71
425	-425.430	-21.530	-5.725	1128.70
424	-426.180	-21.540	-5.725	1128.69
423	-426.930	-21.560	-5.725	1128.68
422	-427.690	-21.570	-5.855	1128.67
421	-428.440	-21.580	-6.035	1128.66
420	-429.200	-21.590	-6.185	1128.65
419	-429.950	-21.610	-6.245	1128.64
418	-430.710	-21.620	-6.245	1128.63
417	-431.460	-21.630	-6.245	1128.62
416	-432.210	-21.640	-6.285	1128.61
415	-432.970	-21.660	-6.275	1128.60
414	-433.720	-21.670	-6.295	1128.59
413	-434.480	-21.680	-6.325	1128.58
412	-435.230	-21.690	-6.365	1128.57
411	-435.980	-21.710	-6.265	1128.56
410	-436.740	-21.720	-6.125	1128.55
409	-437.490	-21.730	-6.095	1128.54
408	-438.250	-21.740	-6.095	1128.53
407	-439.000	-21.760	-6.145	1128.52
406	-439.750	-21.770	-6.265	1128.51
405	-440.510	-21.780	-6.365	1128.50
404	-441.250	-21.740	-6.395	1128.49
403	-442.000	-21.710	-6.395	1128.48
402	-442.750	-21.670	-6.395	1128.47
401	-443.490	-21.640	-6.345	1128.46
400	-444.240	-21.600	-6.325	1128.45
399	-444.980	-21.560	-6.225	1128.44
398	-445.730	-21.530	-6.175	1128.43
397	-446.480	-21.490	-6.265	1128.42
396	-447.220	-21.460	-6.365	1128.41
395	-447.970	-21.420	-6.445	1128.40
394	-448.710	-21.380	-6.475	1128.39
393	-449.460	-21.350	-6.475	1128.38
392	-450.210	-21.310	-6.475	1128.37
391	-450.950	-21.270	-6.475	1128.36

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258	-551.600	-17.070	-7.075	1127.03	
257	-552.380	-17.080	-7.075	1127.02	
256	-553.150	-17.090	-7.125	1127.01	
255	-553.920	-17.100	-7.085	1127.00	
254	-554.710	-17.080	-7.015	1126.99	
253	-555.490	-17.070	-6.995	1126.98	
252	-556.270	-17.050	-6.995	1126.97	
251	-557.060	-17.030	-6.995	1126.96	
250	-557.840	-17.010	-7.025	1126.95	
249	-558.620	-16.990	-7.065	1126.94	
248	-559.410	-16.970	-7.125	1126.93	
247	-560.190	-16.950	-7.145	1126.92	
246	-560.970	-16.930	-7.145	1126.91	
245	-561.760	-16.910	-7.035	1126.90	
244	-562.540	-16.890	-6.995	1126.89	
243	-563.330	-16.880	-6.905	1126.88	
242	-564.110	-16.860	-6.795	1126.87	
241	-564.890	-16.840	-6.775	1126.86	
240	-565.680	-16.820	-6.825	1126.85	
239	-566.460	-16.800	-6.905	1126.84	
238	-567.240	-16.780	-7.035	1126.83	
237	-568.030	-16.760	-7.075	1126.82	
236	-568.810	-16.740	-7.015	1126.81	
235	-569.590	-16.720	-6.995	1126.80	
234	-570.380	-16.700	-6.995	1126.79	
233	-571.160	-16.690	-6.935	1126.78	
232	-571.950	-16.670	-6.925	1126.77	
231	-572.730	-16.650	-6.925	1126.76	
230	-573.510	-16.630	-6.975	1126.75	
229	-574.300	-16.610	-6.935	1126.74	
228	-575.080	-16.590	-6.925	1126.73	
227	-575.860	-16.570	-6.925	1126.72	
226	-576.650	-16.550	-6.925	1126.71	
225	-577.430	-16.530	-6.925	1126.70	
224	-578.210	-16.510	-6.925	1126.69	
223	-579.000	-16.500	-6.925	1126.68	
222	-579.780	-16.480	-6.865	1126.67	
221	-580.570	-16.460	-6.865	1126.66	
220	-581.350	-16.440	-6.845	1126.65	
219	-582.130	-16.420	-6.785	1126.64	
218	-582.920	-16.400	-6.715	1126.63	
217	-583.700	-16.380	-6.695	1126.62	
216	-584.480	-16.360	-6.875	1126.61	
215	-585.270	-16.340	-7.035	1126.60	
214	-586.050	-16.320	-7.015	1126.59	
213	-586.830	-16.310	-6.935	1126.58	
212	-587.620	-16.290	-6.805	1126.57	
211	-588.400	-16.270	-6.715	1126.56	
210	-589.190	-16.250	-6.695	1126.55	
209	-589.970	-16.230	-6.755	1126.54	
208	-590.750	-16.210	-6.775	1126.53	
207	-591.540	-16.190	-6.715	1126.52	
206	-592.320	-16.170	-6.695	1126.51	
205	-593.100	-16.150	-6.695	1126.50	
204	-593.870	-16.130	-6.755	1126.49	
203	-594.640	-16.110	-6.835	1126.48	
202	-595.410	-16.090	-6.845	1126.47	
201	-596.180	-16.070	-6.845	1126.46	
200	-596.950	-16.050	-6.845	1126.45	
199	-597.710	-16.020	-6.845	1126.44	
198	-598.480	-16.000	-6.845	1126.43	
197	-599.250	-15.980	-6.845	1126.42	
196	-600.020	-15.960	-6.905	1126.41	
195	-600.790	-15.940	-6.925	1126.40	
194	-601.560	-15.920	-6.795	1126.39	
193	-602.320	-15.900	-6.585	1126.38	

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324	-501.020	-17.890	-6.755	1127.69	
323	-501.770	-17.820	-6.795	1127.68	
322	-502.520	-17.760	-6.835	1127.67	
321	-503.270	-17.690	-6.845	1127.66	
320	-504.020	-17.620	-6.845	1127.65	
319	-504.770	-17.550	-6.795	1127.64	
318	-505.520	-17.490	-6.775	1127.63	
317	-506.270	-17.420	-6.715	1127.62	
316	-507.010	-17.350	-6.745	1127.61	
315	-507.760	-17.290	-6.825	1127.60	
314	-508.510	-17.220	-6.895	1127.59	
313	-509.260	-17.150	-6.925	1127.58	
312	-510.010	-17.080	-6.925	1127.57	
311	-510.760	-17.020	-6.925	1127.56	
310	-511.510	-16.950	-6.975	1127.55	
309	-512.260	-16.880	-6.965	1127.54	
308	-513.010	-16.820	-6.935	1127.53	
307	-513.760	-16.750	-6.925	1127.52	
306	-514.500	-16.680	-6.925	1127.51	
305	-515.250	-16.620	-6.995	1127.50	
304	-516.030	-16.620	-6.995	1127.49	
303	-516.800	-16.630	-6.945	1127.48	
302	-517.570	-16.640	-6.865	1127.47	
301	-518.350	-16.650	-6.845	1127.46	
300	-519.120	-16.640	-6.845	1127.45	
299	-519.890	-16.670	-6.895	1127.44	
298	-520.670	-16.680	-6.925	1127.43	
297	-521.440	-16.690	-6.975	1127.42	
296	-522.210	-16.700	-6.995	1127.41	
295	-522.990	-16.710	-6.995	1127.40	
294	-523.760	-16.720	-7.045	1127.39	
293	-524.530	-16.730	-7.125	1127.38	
292	-525.310	-16.740	-6.935	1127.37	
291	-526.080	-16.750	-6.735	1127.36	
290	-526.850	-16.760	-6.805	1127.35	
289	-527.630	-16.770	-6.845	1127.34	
288	-528.400	-16.780	-6.845	1127.33	
287	-529.170	-16.790	-6.895	1127.32	
286	-529.950	-16.800	-7.025	1127.31	
285	-530.720	-16.810	-7.015	1127.30	
284	-531.490	-16.820	-6.995	1127.29	
283	-532.270	-16.830	-6.945	1127.28	
282	-533.040	-16.840	-6.925	1127.27	
281	-533.810	-16.850	-6.925	1127.26	
280	-534.590	-16.860	-6.925	1127.25	
279	-535.360	-16.870	-6.975	1127.24	
278	-536.130	-16.880	-7.045	1127.23	
277	-536.910	-16.890	-7.075	1127.22	
276	-537.680	-16.900	-7.075	1127.21	
275	-538.450	-16.910	-7.075	1127.20	
274	-539.230	-16.920	-7.015	1127.19	
273	-540.000	-16.930	-6.965	1127.18	
272	-540.770	-16.940	-6.935	1127.17	
271	-541.550	-16.950	-6.925	1127.16	
270	-542.320	-16.960	-6.925	1127.15	
269	-543.090	-16.970	-7.035	1127.14	
268	-543.870	-16.980	-7.075	1127.13	
267	-544.640	-16.990	-7.075	1127.12	
266	-545.420	-17.000	-7.075	1127.11	
265	-546.190	-17.010	-7.125	1127.10	
264	-546.960	-17.020	-7.085	1127.09	
263	-547.740	-17.030	-7.125	1127.08	
262	-548.510	-17.040	-7.145	1127.07	
261	-549.280	-17.050	-7.085	1127.06	
260	-550.060	-17.060	-7.075	1127.05	
259	-550.830	-17.060	-7.075	1127.04	

126	-654.340	-13.050	-7.065	1125.71
125	-655.130	-12.980	-7.005	1125.70
124	-655.920	-12.910	-6.925	1125.69
123	-656.700	-12.840	-6.855	1125.68
122	-657.490	-12.770	-6.915	1125.67
121	-658.280	-12.700	-6.925	1125.66
120	-659.060	-12.630	-6.985	1125.65
119	-659.850	-12.560	-7.125	1125.64
118	-660.640	-12.490	-7.215	1125.63
117	-661.420	-12.420	-7.285	1125.62
116	-662.210	-12.350	-7.225	1125.61
115	-663.000	-12.280	-7.155	1125.60
114	-663.790	-12.210	-7.145	1125.59
113	-664.570	-12.140	-7.075	1125.58
112	-665.360	-12.070	-7.005	1125.57
111	-666.150	-12.000	-7.125	1125.56
110	-666.930	-11.930	-7.215	1125.55
109	-667.720	-11.860	-7.225	1125.54
108	-668.510	-11.790	-7.225	1125.53
107	-669.300	-11.720	-7.155	1125.52
106	-670.080	-11.650	-7.145	1125.51
105	-670.870	-11.580	-7.145	1125.50
104	-671.660	-11.510	-7.075	1125.49
103	-672.440	-11.440	-7.075	1125.48
102	-673.230	-11.370	-7.135	1125.47
101	-674.020	-11.300	-7.145	1125.46
100	-674.800	-11.230	-7.215	1125.45
99	-675.590	-11.160	-7.285	1125.44
98	-676.380	-11.090	-7.295	1125.43
97	-677.170	-11.020	-7.295	1125.42
96	-677.950	-10.950	-7.295	1125.41
95	-678.740	-10.880	-7.295	1125.40
94	-679.530	-10.810	-7.225	1125.39
93	-680.310	-10.740	-7.225	1125.38
92	-681.100	-10.670	-7.155	1125.37
91	-681.890	-10.600	-6.945	1125.36
90	-682.670	-10.530	-6.855	1125.35
89	-683.460	-10.460	-6.845	1125.34
88	-684.250	-10.390	-6.915	1125.33
87	-685.040	-10.320	-6.985	1125.32
86	-685.820	-10.250	-6.995	1125.31
85	-686.610	-10.180	-7.205	1125.30
84	-687.400	-10.110	-7.285	1125.29
83	-688.180	-10.040	-7.295	1125.28
82	-688.970	-9.970	-7.295	1125.27
81	-689.760	-9.900	-7.155	1125.26
80	-690.540	-9.830	-7.145	1125.25
79	-691.330	-9.760	-7.145	1125.24
78	-692.120	-9.690	-7.215	1125.23
77	-692.910	-9.620	-7.225	1125.22
76	-693.690	-9.550	-7.155	1125.21
75	-694.480	-9.480	-7.115	1125.20
74	-695.270	-9.410	-7.075	1125.19
73	-696.050	-9.340	-7.075	1125.18
72	-696.840	-9.270	-7.005	1125.17
71	-697.630	-9.210	-7.065	1125.16
70	-698.410	-9.140	-7.075	1125.15
69	-699.200	-9.070	-7.075	1125.14
68	-699.990	-9.000	-7.005	1125.13
67	-700.780	-8.930	-6.925	1125.12
66	-701.560	-8.860	-6.925	1125.11
65	-702.350	-8.790	-6.995	1125.10
64	-703.140	-8.720	-7.065	1125.09
63	-703.920	-8.650	-7.145	1125.08
62	-704.710	-8.580	-7.075	1125.07
61	-705.500	-8.510	-7.075	1125.06

192	-603.090	-15.870	-6.485	1126.37
191	-603.860	-15.850	-6.475	1126.36
190	-604.630	-15.830	-6.475	1126.35
189	-605.400	-15.810	-6.595	1126.34
188	-606.170	-15.790	-6.685	1126.33
187	-606.930	-15.770	-6.635	1126.32
186	-607.700	-15.740	-6.625	1126.31
185	-608.470	-15.720	-6.555	1126.30
184	-609.240	-15.700	-6.605	1126.29
183	-610.010	-15.680	-6.625	1126.28
182	-610.770	-15.660	-6.625	1126.27
181	-611.540	-15.640	-6.625	1126.26
180	-612.310	-15.610	-6.625	1126.25
179	-613.080	-15.590	-6.555	1126.24
178	-613.850	-15.570	-6.545	1126.23
177	-614.620	-15.550	-6.545	1126.22
176	-615.380	-15.530	-6.545	1126.21
175	-616.150	-15.510	-6.605	1126.20
174	-616.920	-15.490	-6.625	1126.19
173	-617.690	-15.460	-6.745	1126.18
172	-618.460	-15.440	-6.775	1126.17
171	-619.230	-15.420	-6.775	1126.16
170	-619.990	-15.400	-6.775	1126.15
169	-620.760	-15.380	-6.775	1126.14
168	-621.530	-15.360	-6.775	1126.13
167	-622.300	-15.330	-6.835	1126.12
166	-623.070	-15.310	-6.905	1126.11
165	-623.840	-15.290	-6.925	1126.10
164	-624.600	-15.270	-6.985	1126.09
163	-625.370	-15.250	-6.995	1126.08
162	-626.140	-15.230	-6.935	1126.07
161	-626.910	-15.200	-6.925	1126.06
160	-627.680	-15.180	-6.925	1126.05
159	-628.450	-15.160	-6.985	1126.04
158	-629.210	-15.140	-7.055	1126.03
157	-629.980	-15.120	-7.005	1126.02
156	-630.750	-15.100	-6.995	1126.01
155	-631.520	-15.080	-6.935	1126.00
154	-632.310	-15.010	-6.925	1125.99
153	-633.090	-14.940	-6.855	1125.98
152	-633.880	-14.870	-6.905	1125.97
151	-634.670	-14.800	-6.985	1125.96
150	-635.450	-14.730	-7.025	1125.95
149	-636.240	-14.660	-7.065	1125.94
148	-637.030	-14.590	-7.075	1125.93
147	-637.810	-14.520	-7.075	1125.92
146	-638.600	-14.450	-7.005	1125.91
145	-639.390	-14.380	-6.995	1125.90
144	-640.180	-14.310	-6.995	1125.89
143	-640.960	-14.240	-6.995	1125.88
142	-641.750	-14.170	-6.995	1125.87
141	-642.540	-14.100	-6.995	1125.86
140	-643.320	-14.030	-6.995	1125.85
139	-644.110	-13.960	-6.995	1125.84
138	-644.900	-13.890	-6.995	1125.83
137	-645.680	-13.820	-6.935	1125.82
136	-646.470	-13.750	-6.925	1125.81
135	-647.260	-13.680	-6.925	1125.80
134	-648.050	-13.610	-7.115	1125.79
133	-648.830	-13.540	-7.145	1125.78
132	-649.620	-13.470	-7.145	1125.77
131	-650.410	-13.400	-7.145	1125.76
130	-651.190	-13.330	-7.215	1125.75
129	-651.980	-13.260	-7.155	1125.74
128	-652.770	-13.190	-7.085	1125.73
127	-653.550	-13.120	-7.005	1125.72

PT. #	X (m)	Y (m)	Z (m)	TIME	COMMENTS
60	-706.280	-8.440	-7.145	1125.05	
59	-707.070	-8.370	-7.215	1125.04	
58	-707.860	-8.300	-7.145	1125.03	
57	-708.650	-8.230	-7.005	1125.02	
56	-709.430	-8.160	-6.995	1125.01	
55	-710.220	-8.090	-6.995	1125.00	
54	-711.010	-8.020	-6.995	1124.99	
53	-711.790	-7.950	-6.995	1124.98	
52	-712.580	-7.880	-6.995	1124.97	
51	-713.370	-7.810	-7.135	1124.96	
50	-714.150	-7.740	-7.215	1124.95	
49	-714.940	-7.670	-7.225	1124.94	
48	-715.730	-7.600	-7.145	1124.93	
47	-716.510	-7.530	-6.935	1124.92	
46	-717.300	-7.460	-6.845	1124.91	
45	-718.090	-7.390	-6.775	1124.90	
44	-718.880	-7.320	-6.775	1124.89	
43	-719.660	-7.250	-6.775	1124.88	
42	-720.450	-7.180	-6.915	1124.87	
41	-721.240	-7.110	-7.065	1124.86	
40	-722.020	-7.040	-7.075	1124.85	
39	-722.810	-6.970	-7.075	1124.84	
38	-723.600	-6.900	-7.145	1124.83	
37	-724.380	-6.830	-7.145	1124.82	
36	-725.170	-6.760	-7.145	1124.81	
35	-725.960	-6.690	-7.215	1124.80	
34	-726.750	-6.620	-7.295	1124.79	
33	-727.530	-6.550	-7.295	1124.78	
32	-728.320	-6.480	-7.295	1124.77	
31	-729.110	-6.410	-7.295	1124.76	
30	-729.890	-6.340	-7.295	1124.75	
29	-730.680	-6.270	-7.295	1124.74	
28	-731.470	-6.200	-7.225	1124.73	
27	-732.250	-6.130	-7.225	1124.72	
26	-733.040	-6.060	-7.145	1124.71	
25	-733.830	-5.990	-7.295	1124.70	
24	-734.620	-5.920	-7.445	1124.69	
23	-735.400	-5.850	-7.595	1124.68	
22	-736.190	-5.780	-7.595	1124.67	
21	-736.980	-5.710	-7.375	1124.66	
20	-737.760	-5.640	-7.075	1124.65	
19	-738.550	-5.570	-6.845	1124.64	
18	-739.340	-5.500	-6.805	1124.63	
17	-740.120	-5.430	-6.775	1124.62	
16	-740.910	-5.360	-6.845	1124.61	
15	-741.700	-5.290	-6.775	1124.60	
14	-742.490	-5.220	-6.695	1124.59	
13	-743.270	-5.150	-6.625	1124.58	
12	-744.060	-5.080	-6.545	1124.57	
11	-744.850	-5.010	-6.475	1124.56	
10	-745.630	-4.940	-6.475	1124.55	
9	-746.420	-4.870	-6.615	1124.54	
8	-747.210	-4.800	-6.765	1124.53	
7	-748.000	-4.730	-6.845	1124.52	
6	-748.780	-4.660	-6.845	1124.51	
5	-749.570	-4.590	-6.925	1124.50	
4	-750.360	-4.520	-6.925	1124.49	
3	-751.140	-4.450	-7.145	1124.48	
2	-751.930	-4.380	-7.365	1124.47	
1	-752.720	-4.310	-7.375	1124.46	
MAIN LINE (MERGED ON- & OFFSHORE PROFILES)					
20 April 1990 1310 to 1353 (CDT) (ONSHORE)					
22 April 1990 1113 to 1121 (CDT) (OFFSHORE)					
Average offset = -0.396508m					
PT. #	X (m)	Y (m)	Z (m)	TIME	COMMENTS
0	17.111	-0.070	2.370	1120.18	
1	13.858	-0.105	2.269	1120.17	
2	11.175	0.019	2.290	1120.16	
3	8.165	0.008	2.360	1120.15	
4	5.352	0.045	2.466	1120.14	
5	2.668	0.125	2.596	1120.13	
6	-0.162	-0.048	2.720	1120.12	
7	-2.381	0.135	2.837	1120.11	
8	-5.485	-0.037	2.938	1120.10	
9	-8.499	0.051	2.829	1120.09	
10	-9.924	-0.119	2.704	1120.08	
11	-12.988	0.042	2.400	1120.07	
12	-15.405	0.040	2.189	1120.06	
13	-17.909	0.003	2.011	1120.05	
14	-20.542	-0.037	1.825	1120.04	
15	-23.181	-0.085	1.656	1120.03	
16	-25.966	-0.016	1.533	1120.02	
17	-29.387	0.045	1.411	1120.01	
18	-32.467	0.015	1.339	1119.99	
19	-35.965	-0.046	1.290	1119.98	
20	-38.787	0.332	1.157	1119.97	
21	-41.695	0.300	0.930	1119.96	
22	-44.378	0.383	0.664	1119.95	
23	-46.336	0.251	0.388	1119.94	
24	-49.734	0.311	-0.120	1119.93	
25	-52.212	0.328	-0.183	1119.92	
26	-54.797	0.469	-0.222	1119.91	
27	-57.500	0.403	-0.244	1119.90	
28	-60.475	0.455	-0.243	1119.89	
29	-63.342	0.446	-0.201	1119.88	
30	-65.714	0.517	-0.043	1119.87	
31	-68.158	0.594	-0.031	1119.86	
32	-71.610	0.524	-0.073	1119.85	
33	-74.981	0.586	-0.146	1119.84	
34	-78.010	0.617	-0.206	1119.83	
35	-81.679	0.655	-0.292	1119.82	
36	-85.082	0.676	-0.396	1119.81	
37	-88.726	0.683	-0.478	1119.80	
38	-94.943	0.541	-0.646	1119.79	
854	-95.310	-6.230	-0.774	1120.18	
853	-96.010	-6.250	-0.774	1120.17	
852	-96.700	-6.260	-0.774	1120.16	
851	-97.390	-6.280	-0.784	1120.15	
850	-98.090	-6.300	-0.844	1120.14	
849	-98.780	-6.320	-0.844	1120.13	
848	-99.470	-6.340	-0.844	1120.12	
847	-100.170	-6.350	-0.854	1120.11	
846	-100.860	-6.370	-0.924	1120.10	
845	-101.550	-6.390	-0.924	1120.09	
844	-102.250	-6.410	-0.924	1120.08	
843	-102.940	-6.430	-0.924	1120.07	
842	-103.640	-6.450	-0.934	1120.06	
841	-104.330	-6.460	-0.994	1120.05	
840	-105.020	-6.480	-0.994	1120.04	
839	-105.720	-6.500	-0.994	1120.03	
838	-106.410	-6.520	-0.994	1120.02	
837	-107.100	-6.540	-0.994	1120.01	
836	-107.800	-6.550	-0.984	1120.00	
835	-108.550	-6.560	-0.924	1119.99	
834	-109.310	-6.560	-0.924	1119.98	
833	-110.060	-6.570	-0.924	1119.97	
832	-110.820	-6.570	-0.924	1119.96	
831	-111.580	-6.580	-0.934	1119.95	
830	-112.330	-6.580	-0.994	1119.94	
829	-113.090	-6.580	-0.994	1119.93	
828	-113.840	-6.580	-1.004	1119.92	

761	-165.130	-6.090	-1.974	1119.25
760	-165.910	-6.060	-1.974	1119.24
759	-166.700	-6.040	-1.954	1119.23
758	-167.480	-6.010	-1.894	1119.22
757	-168.260	-5.990	-1.894	1119.21
756	-169.040	-5.960	-1.894	1119.20
755	-169.820	-5.930	-1.894	1119.19
754	-170.610	-5.910	-1.894	1119.18
753	-171.390	-5.880	-1.894	1119.17
752	-172.170	-5.850	-1.894	1119.16
751	-172.950	-5.830	-1.894	1119.15
750	-173.730	-5.800	-1.894	1119.14
749	-174.510	-5.780	-1.894	1119.13
748	-175.300	-5.750	-1.894	1119.12
747	-176.080	-5.720	-1.894	1119.11
746	-176.860	-5.700	-1.894	1119.10
745	-177.640	-5.670	-1.894	1119.09
744	-178.420	-5.650	-1.894	1119.08
743	-179.210	-5.620	-1.894	1119.07
742	-179.990	-5.590	-1.894	1119.06
741	-180.770	-5.570	-1.894	1119.05
740	-181.550	-5.540	-1.894	1119.04
739	-182.330	-5.510	-1.894	1119.03
738	-183.110	-5.490	-1.894	1119.02
737	-183.900	-5.460	-1.894	1119.01
736	-184.680	-5.440	-1.894	1119.00
735	-185.430	-5.450	-1.894	1118.99
734	-186.190	-5.460	-1.894	1118.98
733	-186.940	-5.470	-1.894	1118.97
732	-187.690	-5.480	-1.894	1118.96
731	-188.450	-5.490	-1.894	1118.95
729	-189.200	-5.500	-1.894	1118.94
728	-189.960	-5.510	-1.894	1118.93
727	-190.710	-5.530	-1.894	1118.92
726	-191.470	-5.540	-1.894	1118.91
725	-192.220	-5.550	-1.894	1118.90
724	-192.970	-5.560	-1.874	1118.89
723	-193.730	-5.570	-1.824	1118.88
722	-194.480	-5.580	-1.824	1118.87
721	-195.240	-5.590	-1.824	1118.86
720	-196.000	-5.600	-1.794	1118.85
719	-196.740	-5.620	-1.744	1118.84
718	-197.500	-5.630	-1.734	1118.83
717	-198.250	-5.640	-1.694	1118.82
716	-199.010	-5.650	-1.674	1118.81
715	-199.760	-5.660	-1.674	1118.80
714	-200.520	-5.670	-1.674	1118.79
713	-201.270	-5.680	-1.674	1118.78
712	-202.020	-5.690	-1.674	1118.77
711	-202.780	-5.700	-1.674	1118.76
710	-203.530	-5.720	-1.674	1118.75
709	-204.290	-5.730	-1.644	1118.74
708	-205.040	-5.740	-1.584	1118.73
707	-205.800	-5.750	-1.544	1118.72
706	-206.550	-5.760	-1.524	1118.71
705	-207.300	-5.770	-1.524	1118.70
704	-208.060	-5.780	-1.524	1118.69
703	-208.810	-5.790	-1.524	1118.68
702	-209.570	-5.810	-1.524	1118.67
701	-210.320	-5.820	-1.524	1118.66
700	-211.070	-5.830	-1.524	1118.65
699	-211.830	-5.840	-1.524	1118.64
698	-212.580	-5.850	-1.524	1118.63
697	-213.340	-5.860	-1.524	1118.62
696	-214.090	-5.870	-1.534	1118.61
695	-214.850	-5.880	-1.574	1118.60

827	-114.600	-6.590	-1.074	1119.91
826	-115.360	-6.590	-1.074	1119.90
825	-116.110	-6.600	-1.054	1119.89
824	-116.870	-6.600	-0.984	1119.88
823	-117.620	-6.600	-0.924	1119.87
822	-118.380	-6.610	-0.904	1119.86
821	-119.130	-6.610	-0.844	1119.85
820	-119.890	-6.620	-0.844	1119.84
819	-120.650	-6.620	-0.844	1119.83
818	-121.400	-6.620	-0.864	1119.82
817	-122.160	-6.630	-0.924	1119.81
816	-122.910	-6.630	-0.934	1119.80
815	-123.670	-6.630	-0.994	1119.79
814	-124.430	-6.640	-1.014	1119.78
813	-125.180	-6.640	-1.084	1119.77
812	-125.940	-6.650	-1.144	1119.76
811	-126.690	-6.650	-1.164	1119.75
810	-127.450	-6.650	-1.234	1119.74
809	-128.200	-6.660	-1.314	1119.73
808	-128.960	-6.660	-1.384	1119.72
807	-129.720	-6.660	-1.464	1119.71
806	-130.470	-6.670	-1.534	1119.70
805	-131.230	-6.670	-1.604	1119.69
804	-131.980	-6.680	-1.644	1119.68
803	-132.740	-6.680	-1.704	1119.67
802	-133.490	-6.680	-1.824	1119.66
801	-134.250	-6.690	-1.834	1119.65
800	-135.010	-6.690	-1.894	1119.64
799	-135.760	-6.700	-1.914	1119.63
798	-136.520	-6.700	-1.974	1119.62
797	-137.270	-6.700	-2.014	1119.61
796	-138.030	-6.710	-2.054	1119.60
795	-138.790	-6.710	-2.094	1119.59
794	-139.540	-6.710	-2.124	1119.58
793	-140.300	-6.720	-2.124	1119.57
792	-141.050	-6.720	-2.134	1119.56
791	-141.810	-6.730	-2.214	1119.55
790	-142.560	-6.730	-2.274	1119.54
789	-143.320	-6.730	-2.274	1119.53
788	-144.080	-6.740	-2.274	1119.52
787	-144.830	-6.740	-2.274	1119.51
786	-145.590	-6.750	-2.274	1119.50
785	-146.370	-6.720	-2.274	1119.49
784	-147.150	-6.690	-2.274	1119.48
783	-147.930	-6.670	-2.274	1119.47
782	-148.720	-6.640	-2.274	1119.46
781	-149.500	-6.610	-2.274	1119.45
780	-150.280	-6.590	-2.274	1119.44
779	-151.060	-6.560	-2.284	1119.43
778	-151.840	-6.540	-2.344	1119.42
777	-152.620	-6.510	-2.344	1119.41
776	-153.410	-6.480	-2.344	1119.40
775	-154.190	-6.460	-2.344	1119.39
774	-154.970	-6.430	-2.344	1119.38
773	-155.750	-6.400	-2.334	1119.37
772	-156.530	-6.380	-2.294	1119.36
771	-157.310	-6.350	-2.274	1119.35
770	-158.100	-6.330	-2.274	1119.34
769	-158.880	-6.300	-2.254	1119.33
768	-159.660	-6.270	-2.184	1119.32
767	-160.440	-6.250	-2.144	1119.31
766	-161.220	-6.220	-2.124	1119.30
765	-162.010	-6.200	-2.104	1119.29
764	-162.790	-6.170	-2.044	1119.28
763	-163.570	-6.140	-2.044	1119.27
762	-164.350	-6.120	-2.024	1119.26

629	-265.690	-2.874	1117.93
628	-266.460	-2.874	1117.92
627	-267.240	-2.884	1117.91
626	-268.020	-2.924	1117.90
625	-268.800	-2.944	1117.89
624	-269.580	-2.954	1117.88
623	-270.350	-2.984	1117.87
622	-271.130	-3.004	1117.86
621	-271.910	-3.024	1117.85
620	-272.690	-3.024	1117.84
619	-273.470	-3.024	1117.83
618	-274.240	-3.024	1117.82
617	-275.020	-3.034	1117.81
616	-275.800	-3.074	1117.80
615	-276.580	-3.094	1117.79
614	-277.360	-3.094	1117.78
613	-278.130	-3.094	1117.77
612	-278.910	-3.094	1117.76
611	-279.690	-3.094	1117.75
610	-280.470	-3.094	1117.74
609	-281.250	-3.114	1117.73
608	-282.020	-3.144	1117.72
607	-282.800	-3.174	1117.71
606	-283.580	-3.174	1117.70
605	-284.360	-3.174	1117.69
604	-285.140	-3.174	1117.68
603	-285.910	-3.184	1117.67
602	-286.690	-3.224	1117.66
601	-287.470	-3.244	1117.65
600	-288.250	-3.244	1117.64
599	-289.030	-3.244	1117.63
598	-289.800	-3.244	1117.62
597	-290.580	-3.244	1117.61
596	-291.360	-3.264	1117.60
595	-292.140	-3.294	1117.59
594	-292.920	-3.324	1117.58
593	-293.690	-3.324	1117.57
592	-294.470	-3.324	1117.56
591	-295.250	-3.324	1117.55
590	-296.030	-3.324	1117.54
589	-296.810	-3.324	1117.53
588	-297.580	-3.324	1117.52
587	-298.360	-3.324	1117.51
586	-299.140	-3.334	1117.50
585	-299.900	-3.374	1117.49
584	-300.660	-3.394	1117.48
583	-301.420	-3.394	1117.47
582	-302.170	-3.394	1117.46
581	-302.930	-3.394	1117.45
580	-303.690	-3.394	1117.44
579	-304.450	-3.394	1117.43
578	-305.210	-3.424	1117.42
577	-305.970	-3.474	1117.41
576	-306.730	-3.474	1117.40
575	-307.480	-3.474	1117.39
574	-308.240	-3.474	1117.38
573	-309.000	-3.474	1117.37
572	-309.760	-3.474	1117.36
571	-310.520	-3.474	1117.35
570	-311.280	-3.474	1117.34
569	-312.040	-3.474	1117.33
568	-312.800	-3.474	1117.32
567	-313.550	-3.474	1117.31
566	-314.310	-3.474	1117.30
565	-315.070	-3.504	1117.29
564	-315.830	-3.544	1117.28

695	-215.600	-1.594	1118.59
694	-216.350	-1.594	1118.58
693	-217.110	-1.594	1118.57
692	-217.860	-1.614	1118.56
691	-218.620	-1.674	1118.55
690	-219.370	-1.674	1118.54
689	-220.120	-1.694	1118.53
688	-220.880	-1.744	1118.52
687	-221.630	-1.744	1118.51
686	-222.390	-1.754	1118.50
685	-223.140	-1.794	1118.49
684	-223.900	-1.824	1118.48
683	-224.660	-1.824	1118.47
682	-225.420	-1.844	1118.46
681	-226.170	-1.894	1118.45
680	-226.930	-1.924	1118.44
679	-227.690	-1.974	1118.43
678	-228.440	-1.974	1118.42
677	-229.200	-1.974	1118.41
676	-229.960	-1.974	1118.40
675	-230.710	-1.984	1118.39
674	-231.470	-2.024	1118.38
673	-232.230	-2.054	1118.37
672	-232.990	-2.094	1118.36
671	-233.740	-2.124	1118.35
670	-234.500	-2.134	1118.34
669	-235.260	-2.174	1118.33
668	-236.010	-2.194	1118.32
667	-236.770	-2.194	1118.31
666	-237.530	-2.194	1118.30
665	-238.290	-2.224	1118.29
664	-239.040	-2.274	1118.28
663	-239.800	-2.274	1118.27
662	-240.560	-2.284	1118.26
661	-241.310	-2.324	1118.25
660	-242.070	-2.344	1118.24
659	-242.830	-2.344	1118.23
658	-243.580	-2.374	1118.22
657	-244.340	-2.424	1118.21
656	-245.100	-2.424	1118.20
655	-245.860	-2.444	1118.19
654	-246.610	-2.494	1118.18
653	-247.370	-2.504	1118.17
652	-248.130	-2.534	1118.16
651	-248.880	-2.564	1118.15
650	-249.640	-2.594	1118.14
649	-250.400	-2.624	1118.13
648	-251.160	-2.644	1118.12
647	-251.910	-2.644	1118.11
646	-252.670	-2.644	1118.10
645	-253.430	-2.644	1118.09
644	-254.180	-2.644	1118.08
643	-254.940	-2.644	1118.07
642	-255.700	-2.644	1118.06
641	-256.450	-2.674	1118.05
640	-257.210	-2.724	1118.04
639	-257.970	-2.724	1118.03
638	-258.730	-2.734	1118.02
637	-259.480	-2.774	1118.01
636	-260.240	-2.794	1118.00
635	-261.020	-2.794	1117.99
634	-261.800	-2.794	1117.98
633	-262.570	-2.794	1117.97
632	-263.350	-2.804	1117.96
631	-264.130	-2.844	1117.95
630	-264.910	-2.874	1117.94

497	-367.670	-2.660	-4.144	1116.60
496	-368.440	-2.620	-4.164	1116.59
495	-369.200	-2.570	-4.204	1116.58
494	-369.970	-2.530	-4.224	1116.57
493	-370.730	-2.480	-4.224	1116.56
492	-371.500	-2.440	-4.224	1116.55
491	-372.260	-2.400	-4.224	1116.54
490	-373.030	-2.350	-4.224	1116.53
489	-373.790	-2.310	-4.254	1116.52
488	-374.560	-2.260	-4.294	1116.51
487	-375.320	-2.220	-4.294	1116.50
486	-376.080	-2.310	-4.294	1116.49
485	-376.850	-2.400	-4.304	1116.48
484	-377.610	-2.500	-4.334	1116.47
483	-378.370	-2.590	-4.354	1116.46
482	-379.130	-2.680	-4.374	1116.45
481	-379.890	-2.780	-4.414	1116.44
480	-380.650	-2.870	-4.444	1116.43
479	-381.410	-2.960	-4.464	1116.42
478	-382.170	-3.060	-4.504	1116.41
477	-382.930	-3.150	-4.524	1116.40
476	-383.690	-3.240	-4.524	1116.39
475	-384.460	-3.340	-4.524	1116.38
474	-385.220	-3.430	-4.524	1116.37
473	-385.980	-3.520	-4.564	1116.36
472	-386.740	-3.620	-4.594	1116.35
471	-387.500	-3.710	-4.594	1116.34
470	-388.260	-3.810	-4.634	1116.33
469	-389.020	-3.900	-4.674	1116.32
468	-389.780	-3.990	-4.674	1116.31
467	-390.540	-4.090	-4.674	1116.30
466	-391.300	-4.180	-4.674	1116.29
465	-392.070	-4.270	-4.714	1116.28
464	-392.830	-4.370	-4.744	1116.27
463	-393.590	-4.460	-4.744	1116.26
462	-394.350	-4.550	-4.744	1116.25
461	-395.110	-4.650	-4.764	1116.24
460	-395.870	-4.740	-4.794	1116.23
459	-396.630	-4.830	-4.824	1116.22
458	-397.390	-4.930	-4.854	1116.21
457	-398.150	-5.020	-4.884	1116.20
456	-398.920	-5.110	-4.894	1116.19
455	-399.680	-5.210	-4.894	1116.18
454	-400.440	-5.300	-4.894	1116.17
453	-401.200	-5.390	-4.914	1116.16
452	-401.960	-5.490	-4.954	1116.15
451	-402.720	-5.580	-4.974	1116.14
450	-403.480	-5.670	-4.984	1116.13
449	-404.240	-5.770	-5.004	1116.12
448	-405.000	-5.860	-5.034	1116.11
447	-405.760	-5.950	-5.084	1116.10
446	-406.530	-6.050	-5.124	1116.09
445	-407.290	-6.140	-5.124	1116.08
444	-408.050	-6.230	-5.164	1116.07
443	-408.810	-6.330	-5.194	1116.06
442	-409.570	-6.420	-5.194	1116.05
441	-410.330	-6.510	-5.234	1116.04
440	-411.090	-6.610	-5.274	1116.03
439	-411.850	-6.700	-5.274	1116.02
438	-412.610	-6.790	-5.284	1116.01
437	-413.380	-6.890	-5.304	1116.00
436	-414.130	-6.920	-5.334	1115.99
435	-414.890	-6.960	-5.344	1115.98
434	-415.650	-6.990	-5.384	1115.97
433	-416.410	-7.020	-5.464	1115.96
432	-417.170	-7.060	-5.514	1115.95

563	-316.590	-5.550	-3.544	1117.27
562	-317.350	-5.510	-3.544	1117.26
561	-318.110	-5.470	-3.544	1117.25
560	-318.870	-5.430	-3.544	1117.24
559	-319.620	-5.390	-3.554	1117.23
558	-320.380	-5.350	-3.584	1117.22
557	-321.140	-5.310	-3.604	1117.21
556	-321.900	-5.270	-3.584	1117.20
555	-322.660	-5.230	-3.544	1117.19
554	-323.420	-5.180	-3.544	1117.18
553	-324.180	-5.140	-3.554	1117.17
552	-324.930	-5.100	-3.574	1117.16
551	-325.690	-5.060	-3.594	1117.15
550	-326.450	-5.020	-3.614	1117.14
549	-327.210	-4.980	-3.624	1117.13
548	-327.970	-4.940	-3.624	1117.12
547	-328.730	-4.900	-3.624	1117.11
546	-329.490	-4.860	-3.624	1117.10
545	-330.250	-4.810	-3.624	1117.09
544	-331.000	-4.770	-3.624	1117.08
543	-331.760	-4.730	-3.624	1117.07
542	-332.520	-4.690	-3.624	1117.06
541	-333.280	-4.650	-3.624	1117.05
540	-334.040	-4.610	-3.624	1117.04
539	-334.800	-4.570	-3.634	1117.03
538	-335.560	-4.530	-3.674	1117.02
537	-336.320	-4.490	-3.694	1117.01
536	-337.070	-4.440	-3.694	1117.00
535	-337.840	-4.400	-3.694	1116.99
534	-338.600	-4.350	-3.694	1116.98
533	-339.370	-4.310	-3.694	1116.97
532	-340.130	-4.270	-3.694	1116.96
531	-340.900	-4.220	-3.734	1116.95
530	-341.660	-4.180	-3.774	1116.94
529	-342.430	-4.130	-3.774	1116.93
528	-343.190	-4.090	-3.774	1116.92
527	-343.960	-4.040	-3.774	1116.91
526	-344.720	-4.000	-3.774	1116.90
525	-345.490	-3.950	-3.774	1116.89
524	-346.250	-3.910	-3.804	1116.88
523	-347.020	-3.860	-3.844	1116.87
522	-347.780	-3.820	-3.844	1116.86
521	-348.550	-3.780	-3.844	1116.85
520	-349.310	-3.730	-3.844	1116.84
519	-350.080	-3.690	-3.844	1116.83
518	-350.840	-3.640	-3.884	1116.82
517	-351.610	-3.600	-3.924	1116.81
516	-352.370	-3.550	-3.924	1116.80
515	-353.140	-3.510	-3.924	1116.79
514	-353.900	-3.460	-3.924	1116.78
513	-354.670	-3.420	-3.954	1116.77
511	-356.200	-3.330	-3.994	1116.75
512	-356.960	-3.330	-3.994	1116.75
510	-357.730	-3.240	-3.994	1116.73
509	-358.490	-3.200	-3.994	1116.72
508	-359.260	-3.150	-4.034	1116.71
507	-360.020	-3.110	-4.074	1116.70
506	-360.790	-3.060	-4.074	1116.69
505	-361.550	-3.020	-4.074	1116.68
504	-362.320	-2.970	-4.074	1116.67
503	-363.080	-2.930	-4.074	1116.66
502	-363.850	-2.890	-4.074	1116.65
501	-364.610	-2.840	-4.104	1116.64
500	-365.380	-2.800	-4.144	1116.63
499	-366.140	-2.750	-4.144	1116.62
498	-366.910	-2.710	-4.144	1116.61

365	-467.740	-9.250	-6.574	1115.28
364	-468.490	-9.280	-6.524	1115.27
363	-469.240	-9.310	-6.484	1115.26
362	-469.980	-9.340	-6.424	1115.25
361	-470.730	-9.370	-6.394	1115.24
360	-471.480	-9.400	-6.414	1115.23
359	-472.230	-9.430	-6.454	1115.22
358	-472.970	-9.460	-6.514	1115.21
357	-473.720	-9.490	-6.544	1115.20
356	-474.470	-9.530	-6.544	1115.19
355	-475.220	-9.560	-6.494	1115.18
354	-475.960	-9.590	-6.424	1115.17
353	-476.710	-9.620	-6.494	1115.16
352	-477.460	-9.650	-6.494	1115.15
351	-478.210	-9.680	-6.514	1115.14
350	-478.950	-9.710	-6.544	1115.13
349	-479.700	-9.740	-6.544	1115.12
348	-480.450	-9.770	-6.544	1115.11
347	-481.200	-9.800	-6.544	1115.10
346	-481.950	-9.840	-6.544	1115.09
345	-482.690	-9.870	-6.544	1115.08
344	-483.440	-9.900	-6.544	1115.07
343	-484.190	-9.930	-6.544	1115.06
342	-484.940	-9.960	-6.574	1115.05
341	-485.680	-9.990	-6.604	1115.04
340	-486.430	-10.020	-6.624	1115.03
339	-487.180	-10.050	-6.624	1115.02
338	-487.930	-10.080	-6.624	1115.01
337	-488.670	-10.110	-6.624	1115.00
336	-489.420	-10.140	-6.574	1114.99
335	-490.170	-10.180	-6.544	1114.98
334	-490.920	-10.210	-6.544	1114.97
333	-491.660	-10.240	-6.544	1114.96
332	-492.410	-10.270	-6.544	1114.95
331	-493.160	-10.300	-6.544	1114.94
330	-493.910	-10.330	-6.594	1114.93
329	-494.650	-10.360	-6.624	1114.92
328	-495.400	-10.390	-6.564	1114.91
327	-496.150	-10.420	-6.494	1114.90
326	-496.900	-10.450	-6.414	1114.89
325	-497.640	-10.480	-6.444	1114.88
324	-498.390	-10.520	-6.524	1114.87
323	-499.140	-10.550	-6.594	1114.86
322	-499.890	-10.580	-6.624	1114.85
321	-500.630	-10.610	-6.624	1114.84
320	-501.390	-10.620	-6.674	1114.83
319	-502.180	-10.600	-6.694	1114.82
318	-502.970	-10.580	-6.594	1114.81
317	-503.760	-10.550	-6.544	1114.80
316	-504.550	-10.530	-6.544	1114.79
315	-505.340	-10.510	-6.544	1114.78
314	-506.130	-10.480	-6.544	1114.77
313	-506.920	-10.460	-6.594	1114.76
312	-507.700	-10.440	-6.674	1114.75
311	-508.490	-10.410	-6.744	1114.74
310	-509.280	-10.390	-6.774	1114.73
309	-510.070	-10.370	-6.774	1114.72
308	-510.860	-10.340	-6.664	1114.71
307	-511.650	-10.320	-6.674	1114.70
306	-512.440	-10.300	-6.694	1114.69
305	-513.230	-10.270	-6.804	1114.68
304	-514.020	-10.250	-6.844	1114.67
303	-514.800	-10.230	-6.844	1114.66
302	-515.590	-10.200	-6.844	1114.65
301	-516.380	-10.180	-6.844	1114.64
300	-517.170	-10.160	-6.844	1114.63

431	-417.930	-7.090	-5.554	1115.94
430	-418.680	-7.120	-5.614	1115.93
429	-419.440	-7.160	-5.684	1115.92
428	-420.200	-7.190	-5.764	1115.91
427	-420.960	-7.220	-5.794	1115.90
426	-421.720	-7.260	-5.834	1115.89
425	-422.480	-7.290	-5.914	1115.88
424	-423.230	-7.320	-6.034	1115.87
423	-423.990	-7.360	-6.134	1115.86
422	-424.750	-7.390	-6.214	1115.85
421	-425.510	-7.430	-6.244	1115.84
420	-426.270	-7.460	-6.264	1115.83
419	-427.030	-7.490	-6.304	1115.82
418	-427.780	-7.530	-6.274	1115.81
417	-428.540	-7.560	-6.204	1115.80
416	-429.300	-7.590	-6.174	1115.79
415	-430.060	-7.630	-6.214	1115.78
414	-430.820	-7.660	-6.334	1115.77
413	-431.580	-7.690	-6.394	1115.76
412	-432.340	-7.730	-6.444	1115.75
411	-433.090	-7.760	-6.474	1115.74
410	-433.850	-7.790	-6.474	1115.73
409	-434.610	-7.830	-6.474	1115.72
408	-435.370	-7.860	-6.474	1115.71
407	-436.130	-7.900	-6.474	1115.70
406	-436.890	-7.930	-6.514	1115.69
405	-437.640	-7.960	-6.594	1115.68
404	-438.400	-8.000	-6.594	1115.67
403	-439.160	-8.030	-6.564	1115.66
402	-439.920	-8.060	-6.544	1115.65
401	-440.680	-8.100	-6.494	1115.64
399	-441.440	-8.130	-6.514	1115.63
398	-442.190	-8.160	-6.544	1115.62
397	-442.950	-8.200	-6.544	1115.61
396	-443.710	-8.230	-6.494	1115.60
395	-444.470	-8.260	-6.474	1115.59
394	-445.230	-8.300	-6.474	1115.58
393	-445.990	-8.330	-6.424	1115.57
392	-446.750	-8.370	-6.394	1115.56
391	-447.500	-8.400	-6.394	1115.55
390	-448.260	-8.430	-6.394	1115.54
389	-449.020	-8.470	-6.414	1115.53
388	-449.780	-8.500	-6.434	1115.52
387	-450.540	-8.530	-6.464	1115.51
386	-451.300	-8.570	-6.494	1115.50
385	-452.060	-8.600	-6.534	1115.49
384	-452.820	-8.630	-6.544	1115.48
383	-453.580	-8.660	-6.544	1115.47
382	-454.340	-8.690	-6.544	1115.46
381	-455.100	-8.720	-6.544	1115.45
380	-455.860	-8.750	-6.494	1115.44
379	-456.620	-8.780	-6.514	1115.43
378	-457.380	-8.810	-6.594	1115.42
377	-458.140	-8.850	-6.624	1115.41
376	-458.900	-8.880	-6.664	1115.40
375	-459.660	-8.910	-6.694	1115.39
374	-460.420	-8.940	-6.694	1115.38
373	-461.180	-8.970	-6.674	1115.37
372	-461.940	-9.000	-6.634	1115.36
371	-462.700	-9.030	-6.574	1115.35
370	-463.460	-9.060	-6.494	1115.34
369	-464.220	-9.090	-6.514	1115.33
368	-464.980	-9.120	-6.544	1115.32
367	-465.740	-9.150	-6.594	1115.31
366	-466.500	-9.190	-6.624	1115.30
365	-467.260	-9.220	-6.624	1115.29

299	-517.960	-10.140	-6.844	1114.61
298	-518.750	-10.110	-6.894	1114.61
297	-519.540	-10.090	-6.894	1114.60
296	-520.330	-10.070	-6.854	1114.59
295	-521.110	-10.040	-6.844	1114.58
294	-521.900	-10.020	-6.844	1114.57
293	-522.690	-10.000	-6.894	1114.56
292	-523.480	-9.970	-6.924	1114.55
291	-524.270	-9.950	-6.924	1114.54
290	-525.060	-9.930	-6.924	1114.53
289	-525.850	-9.900	-6.974	1114.52
288	-526.640	-9.880	-6.994	1114.51
287	-527.420	-9.860	-6.994	1114.50
286	-528.210	-9.870	-6.994	1114.49
285	-528.990	-9.870	-6.994	1114.48
284	-529.780	-9.880	-7.044	1114.47
283	-530.560	-9.890	-7.124	1114.46
282	-531.340	-9.890	-7.194	1114.45
281	-532.130	-9.910	-7.224	1114.44
280	-532.910	-9.910	-7.224	1114.43
279	-533.700	-9.920	-7.224	1114.42
278	-534.480	-9.920	-7.164	1114.41
277	-535.260	-9.930	-7.204	1114.40
276	-536.050	-9.940	-7.224	1114.39
275	-536.830	-9.950	-7.224	1114.38
274	-537.620	-9.960	-7.224	1114.37
273	-538.400	-9.960	-7.224	1114.36
272	-539.180	-9.970	-7.224	1114.35
271	-539.970	-9.980	-7.224	1114.34
270	-540.750	-9.980	-7.224	1114.33
269	-541.540	-9.990	-7.224	1114.32
268	-542.320	-10.000	-7.224	1114.31
267	-543.100	-10.010	-7.274	1114.30
266	-543.890	-10.010	-7.244	1114.29
265	-544.670	-10.020	-7.224	1114.28
264	-545.460	-10.030	-7.224	1114.27
263	-546.240	-10.040	-7.164	1114.26
262	-547.020	-10.040	-7.204	1114.25
261	-547.810	-10.050	-7.224	1114.24
260	-548.590	-10.060	-7.224	1114.23
259	-549.380	-10.060	-7.224	1114.22
258	-550.160	-10.070	-7.224	1114.21
257	-550.940	-10.080	-7.224	1114.20
256	-551.730	-10.090	-7.224	1114.19
255	-552.510	-10.090	-7.224	1114.18
254	-553.300	-10.100	-7.224	1114.17
253	-554.080	-10.110	-7.224	1114.16
252	-554.860	-10.120	-7.164	1114.15
251	-555.650	-10.120	-7.034	1114.14
250	-556.430	-10.130	-6.994	1114.13
249	-557.220	-10.140	-6.934	1114.12
248	-558.000	-10.150	-6.924	1114.11
247	-558.780	-10.150	-6.924	1114.10
246	-559.570	-10.160	-7.034	1114.09
245	-560.350	-10.170	-7.124	1114.08
244	-561.140	-10.180	-7.144	1114.07
243	-561.920	-10.180	-7.084	1114.06
242	-562.700	-10.190	-7.074	1114.05
241	-563.490	-10.200	-7.074	1114.04
240	-564.270	-10.200	-7.014	1114.03
239	-565.060	-10.210	-6.994	1114.02
238	-565.840	-10.220	-6.994	1114.01
237	-566.620	-10.230	-6.934	1114.00
236	-567.390	-10.210	-6.924	1113.99
235	-568.150	-10.190	-6.974	1113.98
234	-568.910	-10.170	-6.934	1113.97

08/24/1990	11:43	Filename: 9004.TXT.TXT
101	-668.630	-5.530
100	-669.370	-5.550
99	-670.110	-5.570
98	-670.850	-5.590
97	-671.590	-5.610
96	-672.330	-5.630
95	-673.070	-5.650
94	-673.800	-5.670
93	-674.540	-5.690
92	-675.280	-5.710
91	-676.020	-5.730
90	-676.760	-5.750
89	-677.500	-5.770
88	-678.240	-5.780
87	-678.980	-5.800
86	-679.790	-5.800
85	-680.610	-5.790
84	-681.420	-5.790
83	-682.240	-5.780
82	-683.060	-5.780
81	-683.870	-5.770
80	-684.690	-5.770
79	-685.510	-5.760
78	-686.320	-5.760
77	-687.140	-5.750
76	-687.950	-5.740
75	-688.770	-5.740
74	-689.590	-5.730
73	-690.400	-5.730
72	-691.220	-5.720
71	-692.030	-5.720
70	-692.850	-5.710
69	-693.670	-5.710
68	-694.480	-5.700
67	-695.300	-5.700
66	-696.110	-5.690
65	-696.930	-5.690
64	-697.750	-5.680
63	-698.560	-5.670
62	-699.380	-5.670
61	-700.200	-5.660
60	-701.010	-5.660
59	-701.830	-5.650
58	-702.640	-5.650
57	-703.460	-5.640
56	-704.280	-5.640
55	-705.090	-5.630
54	-705.910	-5.630
53	-706.720	-5.620
52	-707.540	-5.620
51	-708.360	-5.610
50	-709.170	-5.600
49	-709.990	-5.600
48	-710.810	-5.590
47	-711.620	-5.590
46	-712.440	-5.580
45	-713.250	-5.580
44	-714.070	-5.570
43	-714.890	-5.570
42	-715.700	-5.560
41	-716.520	-5.560
40	-717.330	-5.550
39	-718.150	-5.550
38	-718.970	-5.540
37	-719.780	-5.540
36	-720.600	-5.530

08/24/1990	11:43	Filename: 9004.TXT.TXT
167	-619.680	-7.500
166	-620.420	-7.420
165	-621.170	-7.330
164	-621.910	-7.240
163	-622.660	-7.150
162	-623.400	-7.060
161	-624.150	-6.970
160	-624.890	-6.880
159	-625.640	-6.790
158	-626.390	-6.700
157	-627.130	-6.620
156	-627.880	-6.530
155	-628.620	-6.440
154	-629.370	-6.350
153	-630.110	-6.260
152	-630.860	-6.170
151	-631.600	-6.080
150	-632.350	-5.990
149	-633.090	-5.900
148	-633.840	-5.810
147	-634.580	-5.730
146	-635.330	-5.640
145	-636.070	-5.550
144	-636.820	-5.460
143	-637.560	-5.370
142	-638.310	-5.280
141	-639.050	-5.190
140	-639.800	-5.100
139	-640.540	-5.010
138	-641.290	-4.920
137	-642.030	-4.840
136	-642.770	-4.860
135	-643.510	-4.870
134	-644.250	-4.890
133	-644.990	-4.910
132	-645.730	-4.930
131	-646.470	-4.950
130	-647.210	-4.970
129	-647.940	-4.990
128	-648.680	-5.010
127	-649.420	-5.030
126	-650.160	-5.050
125	-650.900	-5.070
124	-651.640	-5.090
123	-652.380	-5.110
122	-653.120	-5.130
121	-653.860	-5.150
120	-654.590	-5.170
119	-655.330	-5.180
118	-656.070	-5.200
117	-656.810	-5.220
116	-657.550	-5.240
115	-658.290	-5.260
114	-659.030	-5.280
113	-659.770	-5.300
112	-660.510	-5.320
111	-661.240	-5.340
110	-661.980	-5.360
109	-662.720	-5.380
108	-663.460	-5.400
107	-664.200	-5.420
106	-664.940	-5.440
105	-665.680	-5.460
104	-666.420	-5.470
103	-667.150	-5.490
102	-667.890	-5.510

832	-99.470	14.070	-0.792	1106.85
831	-100.220	14.020	-0.852	1106.84
830	-100.960	13.980	-0.852	1106.83
829	-101.700	13.940	-0.862	1106.82
828	-102.450	13.900	-0.932	1106.81
827	-103.190	13.860	-0.932	1106.80
826	-103.930	13.810	-0.932	1106.79
825	-104.680	13.770	-0.932	1106.78
824	-105.420	13.730	-0.932	1106.77
823	-106.160	13.690	-0.932	1106.76
822	-106.910	13.650	-0.932	1106.75
821	-107.700	13.550	-0.932	1106.74
820	-108.490	13.450	-0.932	1106.73
819	-109.280	13.360	-0.932	1106.72
818	-110.070	13.260	-0.932	1106.71
817	-110.860	13.170	-0.932	1106.70
816	-111.650	13.070	-0.942	1106.69
815	-112.440	12.970	-1.002	1106.68
814	-113.240	12.880	-0.992	1106.67
813	-114.030	12.780	-0.932	1106.66
812	-114.820	12.690	-0.912	1106.65
811	-115.610	12.590	-0.852	1106.64
810	-116.400	12.490	-0.852	1106.63
809	-117.190	12.400	-0.852	1106.62
808	-117.980	12.300	-0.852	1106.61
807	-118.770	12.210	-0.872	1106.60
806	-119.570	12.110	-0.942	1106.59
805	-120.360	12.020	-1.022	1106.58
804	-121.150	11.920	-1.092	1106.57
803	-121.940	11.820	-1.172	1106.56
802	-122.730	11.730	-1.242	1106.55
801	-123.520	11.630	-1.312	1106.54
800	-124.310	11.540	-1.372	1106.53
799	-125.100	11.440	-1.432	1106.52
798	-125.900	11.340	-1.482	1106.51
797	-126.690	11.250	-1.542	1106.50
796	-127.430	11.190	-1.612	1106.49
795	-128.180	11.130	-1.652	1106.48
794	-128.920	11.070	-1.682	1106.47
793	-129.670	11.010	-1.722	1106.46
792	-130.410	10.950	-1.772	1106.45
791	-131.160	10.890	-1.832	1106.44
790	-131.900	10.830	-1.862	1106.43
789	-132.650	10.770	-1.882	1106.42
788	-133.390	10.720	-1.912	1106.41
787	-134.130	10.660	-1.952	1106.40
786	-134.880	10.600	-1.982	1106.39
785	-135.620	10.540	-1.992	1106.38
784	-136.370	10.480	-2.052	1106.37
783	-137.110	10.420	-2.052	1106.36
782	-137.860	10.360	-2.072	1106.35
781	-138.600	10.300	-2.132	1106.34
780	-139.350	10.240	-2.132	1106.33
779	-140.090	10.180	-2.172	1106.32
778	-140.840	10.120	-2.212	1106.31
777	-141.580	10.060	-2.232	1106.30
776	-142.330	10.000	-2.262	1106.29
775	-143.070	9.950	-2.282	1106.28
774	-143.820	9.890	-2.282	1106.27
773	-144.560	9.830	-2.282	1106.26
772	-145.310	9.770	-2.282	1106.25
771	-146.080	9.780	-2.282	1106.24
770	-146.860	9.800	-2.282	1106.23
769	-147.630	9.810	-2.282	1106.22
768	-148.410	9.820	-2.322	1106.21
767	-149.180	9.840	-2.372	1106.20

PT. #	X (m)	Y (m)	Z (m)	TIME	COMMENTS
35	-721.420	-5.520	-7.004	1111.98	
34	-722.230	-5.520	-7.064	1111.97	
33	-723.050	-5.510	-7.074	1111.96	
32	-723.860	-5.510	-7.074	1111.95	
31	-724.680	-5.500	-7.074	1111.94	
30	-725.500	-5.500	-7.074	1111.93	
29	-726.310	-5.490	-6.994	1111.92	
28	-727.130	-5.490	-6.924	1111.91	
27	-727.940	-5.480	-6.924	1111.90	
26	-728.760	-5.480	-6.924	1111.89	
25	-729.580	-5.470	-6.844	1111.88	
24	-730.390	-5.470	-6.914	1111.87	
23	-731.210	-5.460	-6.924	1111.86	
22	-732.030	-5.450	-6.844	1111.85	
21	-732.840	-5.450	-6.844	1111.84	
20	-733.660	-5.440	-6.914	1111.83	
19	-734.470	-5.440	-6.924	1111.82	
18	-735.290	-5.430	-6.994	1111.81	
17	-736.110	-5.430	-7.144	1111.80	
16	-736.920	-5.420	-7.214	1111.79	
15	-737.740	-5.420	-7.364	1111.78	
14	-738.550	-5.410	-7.374	1111.77	
13	-739.370	-5.410	-7.374	1111.76	
12	-740.190	-5.400	-7.294	1111.75	
11	-741.000	-5.400	-7.364	1111.74	
10	-741.820	-5.390	-7.224	1111.73	
9	-742.630	-5.380	-7.294	1111.72	
8	-743.450	-5.380	-7.374	1111.71	
7	-744.270	-5.370	-7.374	1111.70	
6	-745.080	-5.370	-7.444	1111.69	
5	-745.900	-5.360	-7.374	1111.68	
4	-746.720	-5.360	-7.294	1111.67	
3	-747.530	-5.350	-7.144	1111.66	
2	-748.350	-5.350	-7.074	1111.65	
1	-749.160	-5.340	-7.074	1111.64	

SOUTH LINE 1 (MERGED ON- & OFFSHORE PROFILES)
 20 April 1990 1708 to 1728 (CDT) (ONSHORE)
 22 April 1990 1059 to 1108 (CDT) (OFFSHORE)
 Average offset = -0.404908m

293	12.589	14.965	2.476	
294	7.707	15.063	2.345	
295	2.996	14.988	2.511	
296	0.259	14.926	2.644	
297	-6.963	14.683	2.802	
298	-11.299	14.797	2.549	
299	-13.786	14.726	2.293	
300	-23.178	14.906	1.676	
301	-32.330	14.872	1.280	
302	-37.983	15.215	1.061	
303	-42.673	15.264	0.855	
304	-45.809	15.270	0.637	
305	-48.319	15.389	0.332	waterline
306	-51.379	15.172	-0.120	
307	-56.105	15.151	-0.181	
308	-60.397	15.257	-0.206	
309	-65.015	15.307	-0.192	
310	-69.949	15.293	-0.166	
311	-75.018	15.370	-0.137	
312	-80.155	15.461	-0.224	
313	-85.351	15.545	-0.359	
314	-90.870	15.548	-0.486	
315	-96.315	15.657	-0.594	
834	-97.990	14.150	-0.712	1106.87
833	-98.730	14.110	-0.782	1106.86

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766	-149.950	9.850
765	-150.730	9.870
764	-151.500	9.880
763	-152.280	9.900
762	-153.050	9.910
761	-153.830	9.920
760	-154.600	9.940
759	-155.380	9.950
758	-156.150	9.970
757	-156.930	9.980
756	-157.700	9.990
755	-158.480	10.010
754	-159.250	10.020
753	-160.030	10.040
752	-160.800	10.050
751	-161.580	10.060
750	-162.350	10.080
749	-163.130	10.090
748	-163.900	10.110
747	-164.680	10.120
746	-165.450	10.110
745	-166.220	10.100
744	-167.000	10.090
743	-167.770	10.080
742	-168.540	10.070
741	-169.320	10.060
740	-170.090	10.050
739	-170.860	10.040
738	-171.630	10.030
737	-172.410	10.020
736	-173.180	10.010
735	-173.950	10.000
734	-174.730	9.990
733	-175.500	9.980
732	-176.270	9.970
731	-177.050	9.950
730	-177.820	9.940
729	-178.590	9.930
728	-179.370	9.920
727	-180.140	9.910
726	-180.910	9.900
725	-181.690	9.890
724	-182.460	9.880
723	-183.230	9.870
722	-184.010	9.860
721	-184.780	9.850
720	-185.550	9.840
719	-186.330	9.830
718	-187.100	9.820
717	-187.870	9.810
716	-188.640	9.800
715	-189.420	9.790
714	-190.190	9.780
713	-190.960	9.770
712	-191.740	9.760
711	-192.510	9.750
710	-193.280	9.740
709	-194.060	9.730
708	-194.830	9.720
707	-195.600	9.710
706	-196.380	9.700
705	-197.150	9.690
704	-197.920	9.670
703	-198.700	9.660
702	-199.470	9.650
701	-200.240	9.640

08/24/1990	11:43	Filename: 9004TXT.TXT
700	-201.020	9.630
699	-201.790	9.620
698	-202.560	9.610
697	-203.340	9.600
696	-204.130	9.610
695	-204.930	9.620
694	-205.730	9.630
693	-206.530	9.630
692	-207.330	9.640
691	-208.130	9.650
690	-208.920	9.660
689	-209.720	9.670
688	-210.520	9.680
687	-211.320	9.680
686	-212.120	9.690
685	-212.920	9.700
684	-213.710	9.710
683	-214.510	9.720
682	-215.310	9.720
680	-216.110	9.740
679	-217.110	9.750
678	-218.500	9.770
677	-219.300	9.770
676	-220.100	9.770
675	-220.900	9.780
674	-221.700	9.790
673	-222.500	9.800
672	-223.300	9.810
671	-224.090	9.810
670	-224.890	9.820
669	-225.690	9.830
668	-226.490	9.840
667	-227.290	9.850
666	-228.090	9.850
665	-228.880	9.860
664	-229.680	9.870
663	-230.480	9.880
662	-231.280	9.890
661	-232.080	9.900
660	-232.880	9.900
659	-233.670	9.910
658	-234.470	9.920
657	-235.270	9.930
656	-236.070	9.940
655	-236.870	9.940
654	-237.670	9.950
653	-238.460	9.960
652	-239.260	9.970
651	-240.060	9.980
650	-240.860	9.990
649	-241.660	9.990
648	-242.460	10.000
647	-243.260	10.010
646	-244.050	10.060
645	-244.850	10.110
644	-245.650	10.160
643	-246.440	10.200
642	-247.240	10.250
641	-248.040	10.300
640	-248.830	10.350
639	-249.630	10.400
638	-250.430	10.450
637	-251.230	10.500
636	-252.020	10.540
635	-252.820	10.590

568	-306.610	12.420	-3.402	1104.21
567	-307.420	12.420	-3.402	1104.20
566	-308.230	12.420	-3.402	1104.19
565	-309.040	12.420	-3.402	1104.18
564	-309.850	12.420	-3.422	1104.17
563	-310.660	12.420	-3.452	1104.16
562	-311.470	12.410	-3.482	1104.15
561	-312.280	12.410	-3.482	1104.14
560	-313.090	12.410	-3.482	1104.13
559	-313.900	12.410	-3.482	1104.12
558	-314.710	12.410	-3.482	1104.11
557	-315.520	12.410	-3.482	1104.10
556	-316.330	12.410	-3.492	1104.09
555	-317.140	12.410	-3.532	1104.08
554	-317.950	12.410	-3.552	1104.07
553	-318.760	12.410	-3.552	1104.06
552	-319.570	12.410	-3.552	1104.05
551	-320.380	12.410	-3.552	1104.04
550	-321.190	12.410	-3.552	1104.03
549	-322.000	12.410	-3.552	1104.02
548	-322.810	12.410	-3.552	1104.01
547	-323.630	12.410	-3.552	1104.00
546	-324.400	12.400	-3.552	1103.99
545	-325.180	12.400	-3.552	1103.98
544	-325.960	12.390	-3.552	1103.96
543	-326.740	12.390	-3.552	1103.96
542	-327.520	12.380	-3.592	1103.95
541	-328.300	12.380	-3.632	1103.94
540	-329.080	12.370	-3.632	1103.93
539	-329.860	12.370	-3.632	1103.92
538	-330.640	12.360	-3.632	1103.91
537	-331.420	12.360	-3.632	1103.90
536	-332.200	12.360	-3.632	1103.89
535	-332.980	12.350	-3.662	1103.88
534	-333.760	12.350	-3.702	1103.87
533	-334.540	12.340	-3.702	1103.86
532	-335.320	12.340	-3.702	1103.85
531	-336.100	12.330	-3.702	1103.84
530	-336.880	12.330	-3.702	1103.83
529	-337.660	12.320	-3.722	1103.82
528	-338.440	12.320	-3.762	1103.81
527	-339.220	12.310	-3.782	1103.80
526	-340.000	12.310	-3.782	1103.79
525	-340.780	12.310	-3.782	1103.78
524	-341.560	12.300	-3.782	1103.77
523	-342.340	12.300	-3.782	1103.76
522	-343.120	12.290	-3.782	1103.75
521	-343.900	12.290	-3.792	1103.74
520	-344.680	12.280	-3.832	1103.73
519	-345.460	12.280	-3.852	1103.72
518	-346.240	12.270	-3.852	1103.71
517	-347.020	12.270	-3.852	1103.70
516	-347.800	12.270	-3.852	1103.69
515	-348.580	12.260	-3.892	1103.68
514	-349.360	12.260	-3.932	1103.67
513	-350.140	12.250	-3.932	1103.66
512	-350.920	12.250	-3.932	1103.65
511	-351.700	12.240	-3.942	1103.64
510	-352.480	12.230	-3.982	1103.62
509	-353.260	12.230	-4.002	1103.61
508	-354.040	12.230	-4.002	1103.60
507	-354.820	12.220	-4.002	1103.59
506	-355.600	12.220	-4.042	1103.58
505	-356.380	12.210	-4.082	1103.57
504	-357.160	12.210	-4.082	1103.56
503	-357.940	12.200	-4.082	1103.55
502	-358.720	12.200	-4.082	1103.55

634	-253.620	10.640	-2.592	1104.87
633	-254.410	10.690	-2.632	1104.86
632	-255.210	10.740	-2.652	1104.85
631	-256.010	10.790	-2.662	1104.84
630	-256.800	10.840	-2.692	1104.83
629	-257.600	10.880	-2.712	1104.82
628	-258.400	10.930	-2.732	1104.81
627	-259.200	10.980	-2.732	1104.80
626	-259.990	11.030	-2.742	1104.79
625	-260.790	11.080	-2.782	1104.78
624	-261.590	11.130	-2.802	1104.77
623	-262.380	11.180	-2.802	1104.76
622	-263.180	11.220	-2.802	1104.75
621	-263.980	11.270	-2.832	1104.74
620	-264.770	11.320	-2.882	1104.73
619	-265.570	11.370	-2.882	1104.72
618	-266.370	11.420	-2.882	1104.71
617	-267.170	11.470	-2.892	1104.70
616	-267.960	11.520	-2.932	1104.69
615	-268.760	11.560	-2.952	1104.68
614	-269.560	11.610	-2.952	1104.67
613	-270.350	11.660	-2.952	1104.66
612	-271.150	11.710	-2.952	1104.65
611	-271.950	11.760	-2.972	1104.64
610	-272.740	11.810	-3.002	1104.63
609	-273.540	11.860	-3.032	1104.62
608	-274.340	11.900	-3.032	1104.61
607	-275.140	11.950	-3.032	1104.60
606	-275.930	12.000	-3.042	1104.59
605	-276.730	12.050	-3.082	1104.58
604	-277.530	12.100	-3.102	1104.57
603	-278.320	12.150	-3.132	1104.56
602	-279.120	12.200	-3.132	1104.55
601	-279.920	12.240	-3.182	1104.54
600	-280.710	12.290	-3.182	1104.53
599	-281.510	12.340	-3.182	1104.52
598	-282.310	12.390	-3.182	1104.51
597	-283.110	12.440	-3.182	1104.50
596	-283.920	12.440	-3.182	1104.49
595	-284.730	12.440	-3.182	1104.48
594	-285.540	12.440	-3.182	1104.47
593	-286.350	12.440	-3.212	1104.46
592	-287.160	12.430	-3.252	1104.45
591	-287.970	12.430	-3.252	1104.44
590	-288.780	12.430	-3.252	1104.43
589	-289.590	12.430	-3.252	1104.42
588	-290.400	12.430	-3.252	1104.41
587	-291.210	12.430	-3.252	1104.40
586	-292.020	12.430	-3.252	1104.39
585	-292.830	12.430	-3.252	1104.38
584	-293.640	12.430	-3.252	1104.37
583	-294.450	12.430	-3.252	1104.36
582	-295.260	12.430	-3.282	1104.35
581	-296.070	12.430	-3.332	1104.34
580	-296.880	12.430	-3.332	1104.33
579	-297.690	12.430	-3.332	1104.32
578	-298.500	12.430	-3.332	1104.31
577	-299.310	12.420	-3.332	1104.30
576	-300.120	12.420	-3.332	1104.29
575	-300.930	12.420	-3.332	1104.28
574	-301.740	12.420	-3.342	1104.27
573	-302.550	12.420	-3.382	1104.26
572	-303.370	12.420	-3.402	1104.25
571	-304.180	12.420	-3.402	1104.24
570	-304.990	12.420	-3.402	1104.23
569	-305.800	12.420	-3.402	1104.22

436	-412.830	10.600	-5.202	1102.88
435	-413.600	10.540	-5.212	1102.87
434	-414.360	10.490	-5.242	1102.86
433	-415.120	10.430	-5.262	1102.85
432	-415.890	10.370	-5.282	1102.84
431	-416.650	10.320	-5.322	1102.83
430	-417.420	10.260	-5.392	1102.82
429	-418.180	10.200	-5.452	1102.81
428	-418.950	10.150	-5.482	1102.80
427	-419.710	10.090	-5.592	1102.79
426	-420.480	10.030	-5.742	1102.78
425	-421.240	9.980	-5.842	1102.77
424	-422.010	9.920	-5.882	1102.76
423	-422.770	9.860	-5.882	1102.75
422	-423.530	9.810	-5.882	1102.74
421	-424.300	9.750	-5.882	1102.73
420	-425.060	9.690	-5.962	1102.72
419	-425.830	9.640	-6.032	1102.71
418	-426.590	9.580	-6.072	1102.70
417	-427.360	9.520	-6.102	1102.69
416	-428.120	9.470	-6.062	1102.68
415	-428.890	9.410	-5.982	1102.67
414	-429.650	9.350	-5.992	1102.66
413	-430.420	9.300	-6.072	1102.65
412	-431.180	9.240	-6.102	1102.64
411	-431.940	9.180	-6.102	1102.63
410	-432.710	9.130	-6.062	1102.62
409	-433.470	9.070	-6.032	1102.61
408	-434.240	9.010	-6.072	1102.60
407	-435.000	8.960	-6.152	1102.59
406	-435.770	8.900	-6.182	1102.58
405	-436.530	8.840	-6.132	1102.57
404	-437.300	8.790	-6.152	1102.56
403	-438.060	8.730	-6.182	1102.55
402	-438.820	8.670	-6.182	1102.54
401	-439.590	8.620	-6.182	1102.53
400	-440.350	8.560	-6.222	1102.52
399	-441.120	8.500	-6.302	1102.51
398	-441.880	8.450	-6.372	1102.50
397	-442.710	8.430	-6.402	1102.49
396	-443.540	8.400	-6.382	1102.48
395	-444.370	8.380	-6.342	1102.47
394	-445.200	8.360	-6.332	1102.46
393	-446.030	8.340	-6.332	1102.45
392	-446.860	8.320	-6.372	1102.44
391	-447.690	8.300	-6.382	1102.43
390	-448.520	8.280	-6.342	1102.42
389	-449.350	8.260	-6.282	1102.41
388	-450.180	8.240	-6.202	1102.40
387	-451.010	8.220	-6.272	1102.39
386	-451.840	8.190	-6.332	1102.38
385	-452.670	8.170	-6.332	1102.37
384	-453.500	8.150	-6.372	1102.36
383	-454.330	8.130	-6.402	1102.35
382	-455.160	8.110	-6.352	1102.34
381	-455.990	8.090	-6.372	1102.33
380	-456.820	8.070	-6.452	1102.32
379	-457.650	8.050	-6.482	1102.31
378	-458.480	8.030	-6.432	1102.30
377	-459.310	8.010	-6.402	1102.29
376	-460.140	7.980	-6.402	1102.28
375	-460.970	7.960	-6.452	1102.27
374	-461.800	7.940	-6.482	1102.26
373	-462.630	7.920	-6.522	1102.25
372	-463.460	7.900	-6.552	1102.24
371	-464.290	7.880	-6.552	1102.23

502	-359.500	12.200	-4.082	1103.54
501	-360.280	12.190	-4.092	1103.53
500	-361.060	12.190	-4.132	1103.52
499	-361.840	12.180	-4.152	1103.51
498	-362.620	12.180	-4.152	1103.50
497	-363.440	12.160	-4.152	1103.49
496	-364.260	12.140	-4.172	1103.48
495	-365.080	12.130	-4.212	1103.47
494	-365.900	12.110	-4.232	1103.46
493	-366.730	12.090	-4.232	1103.45
492	-367.550	12.070	-4.242	1103.44
491	-368.370	12.050	-4.282	1103.43
490	-369.190	12.040	-4.302	1103.42
489	-370.010	12.020	-4.302	1103.41
488	-370.830	12.000	-4.302	1103.40
487	-371.650	11.980	-4.302	1103.39
486	-372.470	11.960	-4.342	1103.38
485	-373.290	11.950	-4.382	1103.37
484	-374.110	11.930	-4.382	1103.36
483	-374.930	11.910	-4.412	1103.35
482	-375.750	11.890	-4.452	1103.34
481	-376.570	11.870	-4.452	1103.33
480	-377.390	11.860	-4.452	1103.32
479	-378.220	11.840	-4.452	1103.31
478	-379.040	11.820	-4.472	1103.30
477	-379.860	11.800	-4.512	1103.29
476	-380.680	11.780	-4.532	1103.28
475	-381.500	11.770	-4.572	1103.27
474	-382.320	11.750	-4.602	1103.26
473	-383.140	11.730	-4.602	1103.25
472	-383.960	11.710	-4.602	1103.24
471	-384.780	11.690	-4.602	1103.23
470	-385.600	11.670	-4.602	1103.22
469	-386.420	11.660	-4.642	1103.21
468	-387.240	11.640	-4.682	1103.20
467	-388.060	11.620	-4.682	1103.19
466	-388.880	11.600	-4.682	1103.18
465	-389.710	11.580	-4.682	1103.17
464	-390.530	11.570	-4.722	1103.16
463	-391.350	11.550	-4.752	1103.15
462	-392.170	11.530	-4.752	1103.14
461	-392.990	11.510	-4.752	1103.13
460	-393.810	11.490	-4.792	1103.12
459	-394.630	11.480	-4.832	1103.11
458	-395.450	11.460	-4.832	1103.10
457	-396.270	11.440	-4.872	1103.09
456	-397.090	11.420	-4.902	1103.08
455	-397.910	11.400	-4.902	1103.07
454	-398.730	11.390	-4.902	1103.06
453	-399.550	11.370	-4.902	1103.05
452	-400.370	11.350	-4.942	1103.04
451	-401.190	11.330	-4.982	1103.03
450	-402.020	11.310	-4.982	1103.02
449	-402.840	11.300	-4.982	1103.01
448	-403.660	11.280	-4.982	1103.00
447	-404.420	11.220	-4.982	1102.99
446	-405.190	11.160	-5.022	1102.98
445	-405.950	11.110	-5.052	1102.97
444	-406.720	11.050	-5.052	1102.96
443	-407.480	10.990	-5.052	1102.95
442	-408.240	10.940	-5.052	1102.94
441	-409.010	10.880	-5.092	1102.93
440	-409.770	10.830	-5.132	1102.92
439	-410.540	10.770	-5.132	1102.91
438	-411.300	10.710	-5.132	1102.90
437	-412.070	10.660	-5.172	1102.89

304	-518.620	6.990	-6.702	1101.56
303	-519.420	6.990	-6.702	1101.55
302	-520.220	6.980	-6.652	1101.54
301	-521.030	6.970	-6.632	1101.53
300	-521.830	6.960	-6.682	1101.52
299	-522.630	6.950	-6.702	1101.51
298	-523.430	6.940	-6.652	1101.50
297	-524.240	6.920	-6.632	1101.49
296	-525.050	6.900	-6.632	1101.48
295	-525.860	6.870	-6.682	1101.47
294	-526.680	6.850	-6.702	1101.46
293	-527.490	6.830	-6.752	1101.45
292	-528.300	6.810	-6.832	1101.44
291	-529.110	6.780	-6.902	1101.43
290	-529.930	6.760	-6.982	1101.42
289	-530.740	6.740	-7.002	1101.41
288	-531.550	6.720	-7.002	1101.40
287	-532.360	6.700	-7.052	1101.39
286	-533.170	6.670	-7.022	1101.38
285	-533.990	6.650	-7.002	1101.37
284	-534.800	6.630	-7.002	1101.36
283	-535.610	6.610	-7.002	1101.35
282	-536.420	6.580	-7.052	1101.34
281	-537.240	6.560	-7.102	1101.33
280	-538.050	6.540	-7.142	1101.32
279	-538.860	6.520	-7.152	1101.31
278	-539.670	6.500	-7.152	1101.30
277	-540.490	6.470	-7.102	1101.29
276	-541.300	6.450	-7.022	1101.28
275	-542.110	6.430	-6.952	1101.27
274	-542.920	6.410	-6.822	1101.26
273	-543.730	6.380	-6.782	1101.25
272	-544.550	6.360	-6.892	1101.24
271	-545.360	6.340	-7.092	1101.23
270	-546.170	6.320	-7.152	1101.22
269	-546.980	6.300	-7.152	1101.21
268	-547.800	6.270	-7.042	1101.20
267	-548.610	6.250	-6.892	1101.19
266	-549.420	6.230	-6.852	1101.18
265	-550.230	6.210	-6.802	1101.17
264	-551.040	6.180	-6.662	1101.16
263	-551.860	6.160	-6.632	1101.15
262	-552.670	6.140	-6.682	1101.14
261	-553.480	6.120	-6.812	1101.13
260	-554.290	6.090	-6.962	1101.12
259	-555.110	6.070	-7.002	1101.11
258	-555.920	6.050	-7.002	1101.10
257	-556.730	6.030	-7.062	1101.09
256	-557.540	6.010	-7.082	1101.08
255	-558.350	5.980	-7.132	1101.07
254	-559.170	5.960	-7.152	1101.06
253	-559.980	5.940	-7.152	1101.05
252	-560.790	5.920	-7.152	1101.04
251	-561.600	5.890	-7.152	1101.03
250	-562.420	5.870	-7.152	1101.02
249	-563.230	5.850	-7.152	1101.01
248	-564.040	5.830	-7.152	1101.00
247	-564.870	5.800	-7.152	1100.99
246	-565.690	5.780	-7.092	1100.98
245	-566.520	5.760	-7.022	1100.97
244	-567.350	5.730	-6.892	1100.96
243	-568.180	5.710	-6.792	1100.95
242	-569.000	5.680	-6.832	1100.94
241	-569.830	5.660	-6.852	1100.93
240	-570.660	5.630	-6.852	1100.92
239	-571.480	5.610	-6.792	1100.91

370	-465.120	7.860	-6.502	1102.22
369	-465.950	7.840	-6.482	1102.21
368	-466.780	7.820	-6.482	1102.20
367	-467.610	7.790	-6.502	1102.19
366	-468.440	7.770	-6.542	1102.18
365	-469.270	7.750	-6.552	1102.17
364	-470.100	7.730	-6.602	1102.16
363	-470.930	7.710	-6.652	1102.15
362	-471.760	7.690	-6.692	1102.14
361	-472.590	7.670	-6.702	1102.13
360	-473.420	7.650	-6.682	1102.12
359	-474.250	7.630	-6.642	1102.11
358	-475.080	7.610	-6.672	1102.10
357	-475.910	7.580	-6.702	1102.09
356	-476.740	7.560	-6.702	1102.08
355	-477.570	7.540	-6.702	1102.07
354	-478.400	7.520	-6.602	1102.06
353	-479.230	7.500	-6.452	1102.05
352	-480.060	7.480	-6.352	1102.04
351	-480.890	7.460	-6.232	1102.03
350	-481.720	7.440	-6.222	1102.02
349	-482.550	7.420	-6.352	1102.01
348	-483.380	7.400	-6.552	1102.00
347	-484.180	7.390	-6.632	1101.99
346	-484.980	7.380	-6.632	1101.98
345	-485.780	7.370	-6.632	1101.97
344	-486.580	7.360	-6.682	1101.96
343	-487.390	7.350	-6.652	1101.95
342	-488.190	7.340	-6.632	1101.94
341	-488.990	7.330	-6.682	1101.93
340	-489.790	7.320	-6.702	1101.92
339	-490.590	7.310	-6.752	1101.91
338	-491.390	7.300	-6.782	1101.90
337	-492.190	7.290	-6.832	1101.89
336	-492.990	7.290	-6.852	1101.88
335	-493.790	7.280	-6.832	1101.87
334	-494.590	7.270	-6.792	1101.86
333	-495.400	7.260	-6.732	1101.85
332	-496.200	7.250	-6.652	1101.84
331	-497.000	7.240	-6.632	1101.83
330	-497.800	7.230	-6.572	1101.82
329	-498.600	7.220	-6.502	1101.81
328	-499.400	7.210	-6.422	1101.80
327	-500.200	7.200	-6.352	1101.79
326	-501.000	7.190	-6.332	1101.78
325	-501.800	7.190	-6.272	1101.77
324	-502.600	7.180	-6.252	1101.76
323	-503.400	7.170	-6.252	1101.75
322	-504.210	7.160	-6.252	1101.74
321	-505.010	7.150	-6.252	1101.73
320	-505.810	7.140	-6.252	1101.72
319	-506.610	7.130	-6.252	1101.71
318	-507.410	7.120	-6.282	1101.70
317	-508.210	7.110	-6.312	1101.69
316	-509.010	7.100	-6.332	1101.68
315	-509.810	7.090	-6.382	1101.67
314	-510.610	7.090	-6.402	1101.66
313	-511.410	7.080	-6.452	1101.65
312	-512.210	7.070	-6.582	1101.64
311	-513.020	7.060	-6.682	1101.63
310	-513.820	7.050	-6.752	1101.62
309	-514.620	7.040	-6.782	1101.61
308	-515.420	7.030	-6.782	1101.60
307	-516.220	7.020	-6.782	1101.59
306	-517.020	7.010	-6.782	1101.58
305	-517.820	7.000	-6.722	1101.57

172	-626.560	4.190	-7.242	1100.24
171	-627.380	4.170	-7.162	1100.23
170	-628.190	4.160	-7.092	1100.22
169	-629.010	4.140	-7.142	1100.21
168	-629.820	4.120	-7.152	1100.20
167	-630.630	4.110	-7.212	1100.19
166	-631.450	4.090	-7.292	1100.18
165	-632.260	4.070	-7.302	1100.17
164	-633.080	4.060	-7.302	1100.16
163	-633.890	4.040	-7.302	1100.15
162	-634.700	4.020	-7.242	1100.14
161	-635.520	4.010	-7.042	1100.13
160	-636.330	3.990	-7.002	1100.12
159	-637.150	3.980	-7.062	1100.11
158	-637.960	3.960	-7.082	1100.10
157	-638.770	3.940	-7.142	1100.09
156	-639.590	3.930	-7.212	1100.08
155	-640.400	3.910	-7.232	1100.07
154	-641.220	3.890	-7.292	1100.06
153	-642.030	3.880	-7.362	1100.05
152	-642.840	3.860	-7.342	1100.04
151	-643.660	3.840	-7.312	1100.03
150	-644.470	3.830	-7.302	1100.02
149	-645.290	3.810	-7.362	1100.01
148	-646.100	3.800	-7.382	1100.00
147	-646.920	3.870	-7.382	1059.99
146	-647.730	3.940	-7.442	1059.98
145	-648.540	4.010	-7.392	1059.97
144	-649.360	4.080	-7.382	1059.96
143	-650.170	4.160	-7.382	1059.95
142	-650.990	4.230	-7.382	1059.94
141	-651.800	4.300	-7.382	1059.93
140	-652.620	4.370	-7.382	1059.92
139	-653.430	4.450	-7.382	1059.91
138	-654.250	4.520	-7.312	1059.90
137	-655.060	4.590	-7.302	1059.89
136	-655.870	4.660	-7.372	1059.88
135	-656.690	4.740	-7.382	1059.87
134	-657.500	4.810	-7.312	1059.86
133	-658.320	4.880	-7.172	1059.85
132	-659.130	4.950	-7.152	1059.84
131	-659.950	5.030	-7.222	1059.83
130	-660.760	5.100	-7.292	1059.82
129	-661.570	5.170	-7.372	1059.81
128	-662.390	5.240	-7.382	1059.80
127	-663.200	5.320	-7.312	1059.79
126	-664.020	5.390	-7.172	1059.78
125	-664.830	5.460	-7.122	1059.77
124	-665.650	5.530	-7.082	1059.76
123	-666.460	5.610	-7.082	1059.75
122	-667.280	5.680	-7.012	1059.74
121	-668.090	5.750	-7.002	1059.73
120	-668.900	5.820	-7.002	1059.72
119	-669.720	5.900	-6.932	1059.71
118	-670.530	5.970	-6.992	1059.70
117	-671.350	6.040	-6.932	1059.69
116	-672.160	6.110	-6.932	1059.68
115	-672.980	6.180	-6.992	1059.67
114	-673.790	6.260	-6.992	1059.66
113	-674.610	6.330	-7.132	1059.65
112	-675.420	6.400	-7.352	1059.64
111	-676.230	6.470	-7.382	1059.63
110	-677.050	6.550	-7.382	1059.62
109	-677.860	6.620	-7.382	1059.61
108	-678.680	6.690	-7.242	1059.60
107	-679.490	6.760	-7.232	1059.59

238	-572.310	5.590	-6.782	1100.90
237	-573.140	5.560	-6.782	1100.89
236	-573.970	5.540	-6.832	1100.88
235	-574.790	5.510	-6.972	1100.87
234	-575.620	5.490	-6.942	1100.86
233	-576.450	5.460	-6.812	1100.85
232	-577.270	5.440	-6.722	1100.84
231	-578.100	5.420	-6.762	1100.83
230	-578.930	5.390	-6.892	1100.82
229	-579.760	5.370	-6.932	1100.81
228	-580.580	5.340	-6.932	1100.80
227	-581.410	5.320	-6.872	1100.79
226	-582.240	5.290	-6.882	1100.78
225	-583.060	5.270	-6.922	1100.77
224	-583.890	5.250	-6.932	1100.76
223	-584.720	5.220	-6.982	1100.75
222	-585.550	5.200	-7.062	1100.74
221	-586.370	5.170	-7.082	1100.73
220	-587.200	5.150	-7.022	1100.72
219	-588.030	5.120	-7.002	1100.71
218	-588.850	5.100	-6.942	1100.70
217	-589.680	5.080	-6.932	1100.69
216	-590.510	5.050	-6.932	1100.68
215	-591.340	5.030	-6.932	1100.67
214	-592.160	5.000	-6.982	1100.66
213	-592.990	4.980	-7.002	1100.65
212	-593.820	4.950	-7.062	1100.64
211	-594.640	4.930	-6.962	1100.63
210	-595.470	4.910	-6.872	1100.62
209	-596.300	4.880	-6.912	1100.61
208	-597.130	4.860	-6.982	1100.60
207	-597.950	4.830	-7.062	1100.59
206	-598.780	4.810	-7.082	1100.58
205	-599.610	4.780	-7.142	1100.57
204	-600.440	4.760	-7.092	1100.56
203	-601.260	4.740	-7.082	1100.55
202	-602.090	4.710	-7.082	1100.54
201	-602.920	4.690	-7.142	1100.53
200	-603.740	4.660	-7.152	1100.52
199	-604.570	4.640	-7.092	1100.51
198	-605.400	4.610	-7.142	1100.50
197	-606.210	4.600	-7.212	1100.49
196	-607.030	4.580	-7.232	1100.48
195	-607.840	4.560	-7.172	1100.47
194	-608.650	4.550	-7.152	1100.46
193	-609.470	4.530	-7.152	1100.45
192	-610.280	4.520	-7.212	1100.44
191	-611.100	4.500	-7.232	1100.43
190	-611.910	4.480	-7.232	1100.42
189	-612.720	4.470	-7.292	1100.41
188	-613.540	4.450	-7.302	1100.40
187	-614.350	4.430	-7.362	1100.39
186	-615.170	4.420	-7.382	1100.38
185	-615.980	4.400	-7.382	1100.37
184	-616.790	4.380	-7.382	1100.36
183	-617.610	4.370	-7.382	1100.35
182	-618.420	4.350	-7.382	1100.34
181	-619.240	4.340	-7.382	1100.33
180	-620.050	4.320	-7.382	1100.32
179	-620.870	4.300	-7.382	1100.31
178	-621.680	4.290	-7.382	1100.30
177	-622.490	4.270	-7.382	1100.29
176	-623.310	4.250	-7.382	1100.28
175	-624.120	4.240	-7.382	1100.27
174	-624.940	4.220	-7.382	1100.26
173	-625.750	4.200	-7.312	1100.25

08/24/1990	11:43	Filename: 9004TXT.TXT	
40	-734.010	7.470	-7.002 1058.92
39	-734.830	7.470	-6.932 1058.91
38	-735.640	7.470	-6.932 1058.90
37	-736.460	7.480	-6.852 1058.89
36	-737.270	7.480	-6.852 1058.88
35	-738.080	7.480	-6.852 1058.87
34	-738.900	7.480	-6.852 1058.86
33	-739.710	7.480	-6.852 1058.85
32	-740.520	7.480	-6.922 1058.84
31	-741.340	7.480	-7.002 1058.83
30	-742.150	7.480	-7.002 1058.82
29	-742.960	7.480	-7.002 1058.81
28	-743.780	7.480	-7.002 1058.80
27	-744.590	7.490	-7.002 1058.79
26	-745.410	7.490	-6.932 1058.78
25	-746.220	7.490	-6.852 1058.77
24	-747.030	7.490	-6.922 1058.76
23	-747.850	7.490	-7.072 1058.75
22	-748.660	7.490	-7.112 1058.74
21	-749.470	7.490	-7.152 1058.73
20	-750.290	7.490	-7.152 1058.72
19	-751.100	7.490	-7.152 1058.71
18	-751.910	7.490	-7.152 1058.70
17	-752.730	7.500	-7.192 1058.69
16	-753.540	7.500	-7.222 1058.68
15	-754.360	7.500	-7.152 1058.67
14	-755.170	7.500	-7.082 1058.66
13	-755.980	7.500	-7.082 1058.65
12	-756.800	7.500	-7.082 1058.64
11	-757.610	7.500	-7.002 1058.63
10	-758.420	7.500	-6.932 1058.62
9	-759.240	7.500	-6.852 1058.61
8	-760.050	7.500	-6.852 1058.60
7	-760.870	7.510	-6.782 1058.59
6	-761.680	7.510	-6.782 1058.58
5	-762.490	7.510	-6.852 1058.57
4	-763.310	7.510	-6.852 1058.56
3	-764.120	7.510	-6.782 1058.55
2	-764.930	7.510	-6.702 1058.54
1	-765.750	7.510	-6.782 1058.53
SOUTH LINE 2 (MERGED ON- & OFFSHORE PROFILES)			
22 April 1990 1500 to 1520 (CDT) (ONSHORE)			
22 April 1990 1045 to 1053 (CDT) (OFFSHORE)			
Average offset = -0.401103m			
PT. #	X (m)	Y (m)	Z (m)
370	12.736	29.568	2.564
371	11.923	29.897	2.356
372	7.270	30.015	2.392
373	2.874	29.904	2.564
374	0.263	29.927	2.647
375	-4.226	29.595	2.783
376	-8.543	29.781	2.836
377	-12.254	29.662	2.590
378	-17.674	29.784	2.069
379	-23.845	30.042	1.721
380	-29.465	30.402	1.513
381	-37.863	29.962	1.169
382	-44.076	29.906	0.954
383	-47.241	29.898	0.691
384	-49.612	29.928	0.370
385	-50.586	30.092	0.260
386	-51.957	29.937	-0.023
387	-56.047	29.988	-0.160
388	-60.478	30.016	-0.132
389	-64.759	30.008	-0.118
waterline			

08/24/1990	11:43	Filename: 9004TXT.TXT	
106	-680.310	6.840	-7.232 1059.58
105	-681.120	6.910	-7.162 1059.57
104	-681.940	6.980	-7.082 1059.56
103	-682.750	7.050	-7.082 1059.55
102	-683.560	7.130	-7.082 1059.54
101	-684.380	7.200	-7.082 1059.53
100	-685.190	7.270	-7.082 1059.52
99	-686.010	7.340	-7.142 1059.51
98	-686.820	7.420	-7.222 1059.50
97	-687.640	7.420	-7.162 1059.49
96	-688.450	7.420	-7.152 1059.48
95	-689.260	7.420	-7.082 1059.47
94	-690.080	7.420	-7.142 1059.46
93	-690.890	7.420	-7.152 1059.45
92	-691.700	7.420	-7.222 1059.44
91	-692.520	7.420	-7.232 1059.43
90	-693.330	7.420	-7.292 1059.42
89	-694.140	7.420	-7.302 1059.41
88	-694.960	7.430	-7.302 1059.40
87	-695.770	7.430	-7.302 1059.39
86	-696.590	7.430	-7.302 1059.38
85	-697.400	7.430	-7.302 1059.37
84	-698.210	7.430	-7.302 1059.36
83	-699.030	7.430	-7.372 1059.35
82	-699.840	7.430	-7.382 1059.34
81	-700.650	7.430	-7.312 1059.33
80	-701.470	7.430	-7.232 1059.32
79	-702.280	7.430	-7.162 1059.31
78	-703.100	7.440	-7.082 1059.30
77	-703.910	7.440	-7.012 1059.29
76	-704.720	7.440	-7.002 1059.28
75	-705.540	7.440	-7.002 1059.27
74	-706.350	7.440	-7.002 1059.26
73	-707.160	7.440	-6.932 1059.25
72	-707.980	7.440	-6.932 1059.24
71	-708.790	7.440	-7.002 1059.23
70	-709.600	7.440	-7.002 1059.22
69	-710.420	7.440	-7.002 1059.21
68	-711.230	7.450	-7.002 1059.20
67	-712.050	7.450	-7.002 1059.19
66	-712.860	7.450	-7.072 1059.18
65	-713.670	7.450	-7.012 1059.17
64	-714.490	7.450	-6.932 1059.16
63	-715.300	7.450	-7.002 1059.15
62	-716.110	7.450	-7.002 1059.14
61	-716.930	7.450	-7.072 1059.13
60	-717.740	7.450	-7.152 1059.12
59	-718.550	7.450	-7.082 1059.11
58	-719.370	7.460	-7.012 1059.10
57	-720.180	7.460	-7.002 1059.09
56	-721.000	7.460	-7.002 1059.08
55	-721.810	7.460	-7.002 1059.07
54	-722.620	7.460	-6.932 1059.06
53	-723.440	7.460	-6.852 1059.05
52	-724.250	7.460	-6.852 1059.04
51	-725.060	7.460	-6.852 1059.03
50	-725.880	7.460	-6.922 1059.02
49	-726.690	7.460	-6.932 1059.01
48	-727.510	7.470	-6.932 1059.00
47	-728.320	7.470	-7.002 1058.99
46	-729.130	7.470	-7.072 1058.98
45	-729.950	7.470	-7.082 1058.97
44	-730.760	7.470	-7.082 1058.96
43	-731.570	7.470	-7.002 1058.95
42	-732.390	7.470	-7.002 1058.94
41	-733.200	7.470	-7.072 1058.93

669	-157.080	26.000	-2.878	1051.36
668	-157.890	25.980	-2.878	1051.35
667	-158.700	25.970	-2.848	1051.34
666	-159.500	25.950	-2.798	1051.33
665	-160.310	25.940	-2.788	1051.32
664	-161.120	25.920	-2.748	1051.31
663	-161.920	25.910	-2.698	1051.30
662	-162.730	25.890	-2.648	1051.29
661	-163.530	25.870	-2.618	1051.28
660	-164.340	25.860	-2.548	1051.27
659	-165.150	25.840	-2.488	1051.26
658	-165.950	25.830	-2.448	1051.25
657	-166.750	25.810	-2.428	1051.24
656	-167.550	25.790	-2.398	1051.23
655	-168.350	25.770	-2.318	1051.22
654	-169.150	25.750	-2.258	1051.21
653	-169.950	25.730	-2.218	1051.20
652	-170.750	25.710	-2.198	1051.19
651	-171.540	25.690	-2.198	1051.18
650	-172.340	25.670	-2.168	1051.17
649	-173.140	25.650	-2.128	1051.16
648	-173.940	25.630	-2.128	1051.15
647	-174.740	25.610	-2.098	1051.14
646	-175.540	25.590	-2.018	1051.13
645	-176.330	25.570	-1.978	1051.12
644	-177.130	25.560	-1.978	1051.11
643	-177.930	25.540	-1.978	1051.10
642	-178.730	25.520	-1.948	1051.09
641	-179.530	25.500	-1.898	1051.08
640	-180.330	25.480	-1.898	1051.07
639	-181.130	25.460	-1.898	1051.06
638	-181.920	25.440	-1.898	1051.05
637	-182.720	25.420	-1.898	1051.04
636	-183.520	25.400	-1.868	1051.03
635	-184.320	25.380	-1.828	1051.02
634	-185.120	25.360	-1.828	1051.01
633	-185.920	25.340	-1.828	1051.00
632	-186.730	25.420	-1.798	1050.99
631	-187.550	25.490	-1.738	1050.98
630	-188.360	25.570	-1.698	1050.97
629	-189.180	25.650	-1.678	1050.96
628	-190.000	25.720	-1.648	1050.95
627	-190.810	25.800	-1.598	1050.94
626	-191.630	25.880	-1.598	1050.93
625	-192.440	25.950	-1.568	1050.92
624	-193.260	26.030	-1.528	1050.91
623	-194.080	26.100	-1.528	1050.90
622	-194.890	26.180	-1.508	1050.89
621	-195.710	26.260	-1.468	1050.88
620	-196.520	26.330	-1.448	1050.87
619	-197.340	26.410	-1.478	1050.86
618	-198.150	26.480	-1.508	1050.85
617	-198.970	26.560	-1.468	1050.84
616	-199.790	26.640	-1.448	1050.83
615	-200.600	26.710	-1.448	1050.82
614	-201.420	26.790	-1.448	1050.81
613	-202.230	26.870	-1.468	1050.80
612	-203.050	26.940	-1.498	1050.79
611	-203.860	27.020	-1.528	1050.78
610	-204.680	27.090	-1.528	1050.77
609	-205.500	27.170	-1.528	1050.76
608	-206.310	27.250	-1.528	1050.75
607	-207.130	27.320	-1.528	1050.74
606	-207.940	27.400	-1.528	1050.73
605	-208.760	27.480	-1.538	1050.72
604	-209.580	27.550	-1.578	1050.71

390	-68.809	29.978	-0.144	1051.93
391	-73.361	29.920	-0.162	1051.92
392	-77.738	29.935	-0.207	1051.91
393	-82.443	29.984	-0.262	1051.90
394	-86.632	29.918	-0.379	1051.89
395	-90.869	29.939	-0.451	1051.88
396	-95.537	29.920	-0.544	1051.87
397	-100.441	29.892	-0.656	1051.86
398	-105.974	29.956	-0.675	1051.85
726	-111.440	28.120	-0.698	1051.84
725	-112.190	28.090	-0.718	1051.83
724	-112.950	28.060	-0.778	1051.82
723	-113.710	28.030	-0.778	1051.81
722	-114.460	28.000	-0.778	1051.80
721	-115.220	27.970	-0.778	1051.79
720	-115.970	27.940	-0.748	1051.78
719	-116.730	27.910	-0.718	1051.77
718	-117.480	27.880	-0.778	1051.76
717	-118.240	27.850	-0.798	1051.75
716	-119.000	27.820	-0.868	1051.74
715	-119.750	27.790	-0.938	1051.73
714	-120.510	27.760	-0.988	1051.72
713	-121.260	27.720	-1.038	1051.71
712	-122.020	27.690	-1.078	1051.70
711	-122.780	27.660	-1.118	1051.69
710	-123.530	27.630	-1.248	1051.68
709	-124.290	27.600	-1.298	1051.67
708	-125.040	27.570	-1.318	1051.66
707	-125.870	27.520	-1.378	1051.65
706	-126.700	27.460	-1.398	1051.64
705	-127.530	27.410	-1.468	1051.63
704	-128.360	27.350	-1.548	1051.62
703	-129.190	27.300	-1.618	1051.61
702	-130.020	27.250	-1.698	1051.60
701	-130.850	27.190	-1.768	1051.59
699	-131.680	27.140	-1.828	1051.58
698	-132.510	27.080	-1.848	1051.57
697	-133.340	27.030	-1.918	1051.56
696	-134.170	26.980	-1.998	1051.55
695	-135.000	26.920	-2.068	1051.54
694	-135.830	26.870	-2.148	1051.53
693	-136.660	26.810	-2.218	1051.52
692	-137.490	26.760	-2.298	1051.51
691	-138.320	26.710	-2.368	1051.50
690	-139.150	26.650	-2.428	1051.49
689	-140.010	26.600	-2.498	1051.48
688	-141.840	26.540	-2.448	1051.47
687	-142.670	26.490	-2.498	1051.46
686	-143.500	26.430	-2.498	1051.45
685	-144.330	26.380	-2.498	1051.44
684	-145.160	26.330	-2.498	1051.43
683	-146.000	26.280	-2.528	1051.42
682	-146.830	26.230	-2.578	1051.41
681	-147.660	26.180	-2.578	1051.40
680	-148.490	26.130	-2.578	1051.39
679	-149.320	26.080	-2.578	1051.38
678	-150.150	26.030	-2.578	1051.37
677	-150.980	25.980	-2.578	1051.36
676	-151.810	25.930	-2.578	1051.35
675	-152.640	25.880	-2.578	1051.34
674	-153.470	25.830	-2.578	1051.33
673	-154.300	25.780	-2.578	1051.32
672	-155.130	25.730	-2.578	1051.31
671	-155.960	25.680	-2.578	1051.30
670	-156.790	25.630	-2.578	1051.29

603	-210.390	27.630	-1.598	1050.70
602	-211.210	27.700	-1.598	1050.69
601	-212.020	27.780	-1.598	1050.68
600	-212.840	27.860	-1.628	1050.67
599	-213.650	27.930	-1.678	1050.66
598	-214.470	28.010	-1.678	1050.65
597	-215.290	28.090	-1.678	1050.64
596	-216.100	28.160	-1.688	1050.63
595	-216.920	28.240	-1.728	1050.62
594	-217.730	28.310	-1.748	1050.61
593	-218.550	28.390	-1.748	1050.60
592	-219.360	28.470	-1.768	1050.59
591	-220.180	28.540	-1.798	1050.58
590	-221.000	28.620	-1.828	1050.57
589	-221.810	28.690	-1.828	1050.56
588	-222.630	28.770	-1.828	1050.55
587	-223.440	28.850	-1.838	1050.54
586	-224.260	28.920	-1.878	1050.53
585	-225.080	29.000	-1.898	1050.52
584	-225.890	29.080	-1.908	1050.51
583	-226.710	29.150	-1.928	1050.50
582	-227.500	29.190	-1.948	1050.49
581	-228.300	29.230	-1.958	1050.48
580	-229.090	29.260	-2.008	1050.47
579	-229.890	29.300	-2.048	1050.46
578	-230.680	29.340	-2.048	1050.45
577	-231.480	29.370	-2.098	1050.44
576	-232.270	29.410	-2.128	1050.43
575	-233.070	29.450	-2.128	1050.42
574	-233.860	29.480	-2.128	1050.41
573	-234.660	29.520	-2.158	1050.40
572	-235.450	29.560	-2.198	1050.39
571	-236.250	29.590	-2.198	1050.38
570	-237.040	29.630	-2.218	1050.37
569	-237.840	29.670	-2.248	1050.36
568	-238.630	29.700	-2.278	1050.35
567	-239.430	29.740	-2.278	1050.34
566	-240.220	29.780	-2.288	1050.33
565	-241.020	29.810	-2.328	1050.32
564	-241.810	29.850	-2.348	1050.31
563	-242.610	29.890	-2.348	1050.30
562	-243.400	29.930	-2.348	1050.29
561	-244.190	29.960	-2.348	1050.28
560	-244.990	30.000	-2.368	1050.27
559	-245.780	30.040	-2.398	1050.26
558	-246.580	30.070	-2.428	1050.25
557	-247.370	30.110	-2.428	1050.24
556	-248.170	30.150	-2.438	1050.23
555	-248.960	30.180	-2.478	1050.22
554	-249.760	30.220	-2.498	1050.21
553	-250.550	30.260	-2.498	1050.20
552	-251.350	30.290	-2.528	1050.19
551	-252.140	30.330	-2.578	1050.18
550	-252.940	30.370	-2.578	1050.17
549	-253.730	30.400	-2.588	1050.16
548	-254.530	30.440	-2.628	1050.15
547	-255.320	30.480	-2.648	1050.14
546	-256.120	30.510	-2.648	1050.13
545	-256.910	30.550	-2.648	1050.12
544	-257.710	30.590	-2.648	1050.11
543	-258.500	30.620	-2.688	1050.10
542	-259.300	30.660	-2.728	1050.09
541	-260.090	30.700	-2.728	1050.08
540	-260.890	30.740	-2.728	1050.07
539	-261.680	30.770	-2.728	1050.06
538	-262.480	30.810	-2.728	1050.05

537	-263.270	30.850	-2.738	1050.04
536	-264.070	30.880	-2.778	1050.03
535	-264.860	30.920	-2.798	1050.02
534	-265.660	30.960	-2.798	1050.01
533	-266.450	30.990	-2.798	1050.00
532	-267.290	31.000	-2.838	1049.99
531	-268.120	31.000	-2.878	1049.98
530	-268.960	31.010	-2.878	1049.97
529	-269.790	31.010	-2.878	1049.96
528	-270.630	31.010	-2.878	1049.95
527	-271.460	31.020	-2.878	1049.94
526	-272.300	31.020	-2.888	1049.93
525	-273.140	31.030	-2.928	1049.92
524	-273.970	31.030	-2.948	1049.91
523	-274.810	31.040	-2.968	1049.90
522	-275.640	31.040	-3.008	1049.89
521	-276.480	31.040	-3.028	1049.88
520	-277.310	31.050	-3.028	1049.87
519	-278.150	31.050	-3.028	1049.86
518	-278.980	31.060	-3.028	1049.85
517	-279.820	31.060	-3.028	1049.84
516	-280.660	31.060	-3.028	1049.83
515	-281.490	31.070	-3.028	1049.82
514	-282.330	31.070	-3.038	1049.81
513	-283.160	31.080	-3.078	1049.80
512	-284.000	31.080	-3.098	1049.79
511	-284.830	31.090	-3.098	1049.78
510	-285.670	31.090	-3.108	1049.77
509	-286.500	31.100	-3.138	1049.75
508	-287.340	31.100	-3.158	1049.75
507	-288.180	31.110	-3.178	1049.73
506	-289.020	31.110	-3.178	1049.72
505	-290.850	31.120	-3.178	1049.71
504	-291.680	31.120	-3.178	1049.70
503	-292.520	31.120	-3.178	1049.69
502	-293.350	31.130	-3.178	1049.68
501	-294.190	31.130	-3.178	1049.67
500	-294.860	31.140	-3.188	1049.66
499	-295.690	31.140	-3.208	1049.65
498	-296.530	31.140	-3.238	1049.64
497	-297.370	31.150	-3.248	1049.63
496	-298.200	31.150	-3.248	1049.62
495	-299.040	31.160	-3.248	1049.61
494	-299.870	31.160	-3.248	1049.60
493	-300.710	31.170	-3.248	1049.59
492	-301.540	31.170	-3.248	1049.58
491	-302.380	31.170	-3.268	1049.57
490	-303.210	31.180	-3.308	1049.56
489	-304.050	31.180	-3.338	1049.55
488	-304.880	31.190	-3.378	1049.54
487	-305.720	31.190	-3.378	1049.53
486	-306.560	31.200	-3.378	1049.52
485	-307.390	31.200	-3.348	1049.51
484	-308.230	31.200	-3.378	1049.50
483	-309.030	31.170	-3.398	1049.49
482	-309.840	31.130	-3.398	1049.48
481	-310.650	31.090	-3.398	1049.47
480	-311.460	31.050	-3.398	1049.46
479	-312.260	31.010	-3.398	1049.45
478	-313.070	30.970	-3.398	1049.44
477	-313.880	30.930	-3.398	1049.43
476	-314.690	30.890	-3.398	1049.42
475	-315.490	30.850	-3.418	1049.41
474	-316.300	30.820	-3.458	1049.40
473	-317.110	30.780	-3.478	1049.39
472	-317.920	30.740	-3.478	1049.38

471	-318.720	30.700	-3.478	1049.37	405	-372.460	28.700	-4.398	1048.71
470	-319.530	30.660	-3.478	1049.36	404	-373.280	28.680	-4.438	1048.70
469	-320.340	30.620	-3.478	1049.35	403	-374.110	28.660	-4.448	1048.69
468	-321.150	30.580	-3.498	1049.34	402	-374.930	28.640	-4.448	1048.68
467	-321.950	30.540	-3.528	1049.33	401	-375.750	28.620	-4.448	1048.67
466	-322.760	30.500	-3.548	1049.32	400	-376.570	28.600	-4.498	1048.66
465	-323.570	30.470	-3.548	1049.31	399	-377.400	28.580	-4.528	1048.65
464	-324.380	30.430	-3.548	1049.30	398	-378.220	28.570	-4.528	1048.64
463	-325.180	30.390	-3.548	1049.29	397	-379.040	28.550	-4.528	1048.63
462	-325.990	30.350	-3.548	1049.28	396	-379.860	28.530	-4.568	1048.62
461	-326.800	30.310	-3.568	1049.27	395	-380.690	28.510	-4.598	1048.61
460	-327.610	30.270	-3.608	1049.26	394	-381.510	28.490	-4.598	1048.60
459	-328.410	30.230	-3.628	1049.25	393	-382.330	28.470	-4.598	1048.59
458	-329.220	30.190	-3.628	1049.24	392	-383.160	28.450	-4.598	1048.58
457	-330.030	30.150	-3.628	1049.23	391	-383.980	28.430	-4.598	1048.57
456	-330.840	30.120	-3.628	1049.22	390	-384.800	28.410	-4.648	1048.56
455	-331.640	30.080	-3.648	1049.21	389	-385.620	28.390	-4.678	1048.55
454	-332.450	30.040	-3.678	1049.20	388	-386.450	28.370	-4.628	1048.54
453	-333.260	30.000	-3.698	1049.19	387	-387.270	28.350	-4.598	1048.53
452	-334.070	29.960	-3.698	1049.18	386	-388.080	28.340	-4.648	1048.52
451	-334.870	29.920	-3.698	1049.17	385	-388.890	28.320	-4.678	1048.51
450	-335.680	29.880	-3.718	1049.16	384	-389.700	28.300	-4.698	1048.50
449	-336.490	29.840	-3.758	1049.15	383	-390.510	28.280	-4.738	1048.49
448	-337.300	29.800	-3.778	1049.14	382	-391.320	28.260	-4.748	1048.48
447	-338.100	29.770	-3.778	1049.13	381	-392.130	28.240	-4.748	1048.47
446	-338.910	29.730	-3.778	1049.12	380	-392.950	28.220	-4.748	1048.46
445	-339.720	29.690	-3.778	1049.11	379	-393.760	28.210	-4.748	1048.45
444	-340.530	29.650	-3.798	1049.10	378	-394.570	28.190	-4.748	1048.44
443	-341.330	29.610	-3.828	1049.09	377	-395.380	28.170	-4.748	1048.43
442	-342.140	29.570	-3.848	1049.08	376	-396.190	28.150	-4.748	1048.42
441	-342.950	29.530	-3.848	1049.07	375	-397.000	28.130	-4.768	1048.41
440	-343.760	29.490	-3.848	1049.06	374	-397.810	28.110	-4.808	1048.40
439	-344.560	29.450	-3.848	1049.05	373	-398.630	28.090	-4.828	1048.39
438	-345.370	29.420	-3.848	1049.04	372	-399.440	28.080	-4.828	1048.38
437	-346.180	29.380	-3.848	1049.03	371	-400.250	28.060	-4.868	1048.37
436	-346.990	29.340	-3.868	1049.02	370	-401.060	28.040	-4.898	1048.36
435	-347.790	29.300	-3.908	1049.01	369	-401.870	28.020	-4.898	1048.35
434	-348.600	29.260	-3.928	1049.00	368	-402.680	28.000	-4.898	1048.34
433	-349.420	29.240	-3.928	1048.99	367	-403.490	27.980	-4.898	1048.33
432	-350.250	29.220	-3.928	1048.98	366	-404.310	27.960	-4.898	1048.32
431	-351.070	29.200	-3.968	1048.97	365	-405.120	27.950	-4.948	1048.31
430	-351.890	29.180	-3.998	1048.96	364	-405.930	27.930	-4.978	1048.30
429	-352.710	29.160	-3.998	1048.95	363	-406.740	27.910	-4.978	1048.29
428	-353.540	29.140	-4.018	1048.94	362	-407.550	27.890	-4.978	1048.28
427	-354.360	29.120	-4.058	1048.93	361	-408.360	27.870	-4.978	1048.27
426	-355.180	29.110	-4.078	1048.92	360	-409.170	27.850	-5.018	1048.26
425	-356.010	29.090	-4.078	1048.91	359	-409.980	27.840	-5.048	1048.25
424	-356.830	29.070	-4.078	1048.90	358	-410.800	27.820	-5.048	1048.24
423	-357.650	29.050	-4.078	1048.89	357	-411.610	27.800	-5.048	1048.23
422	-358.470	29.030	-4.078	1048.88	356	-412.420	27.780	-5.048	1048.22
421	-359.300	29.010	-4.098	1048.87	355	-413.230	27.760	-5.068	1048.21
420	-360.120	28.990	-4.128	1048.86	354	-414.040	27.740	-5.108	1048.20
419	-360.940	28.970	-4.148	1048.85	353	-414.850	27.720	-5.128	1048.19
418	-361.760	28.950	-4.148	1048.84	352	-415.660	27.710	-5.168	1048.18
417	-362.590	28.930	-4.188	1048.83	351	-416.480	27.690	-5.198	1048.17
416	-363.410	28.910	-4.228	1048.82	350	-417.290	27.670	-5.198	1048.16
415	-364.230	28.890	-4.228	1048.81	349	-418.100	27.650	-5.198	1048.15
414	-365.060	28.870	-4.228	1048.80	348	-418.910	27.630	-5.248	1048.14
413	-365.880	28.860	-4.228	1048.79	347	-419.720	27.610	-5.278	1048.13
412	-366.700	28.840	-4.238	1048.78	346	-420.530	27.590	-5.278	1048.12
411	-367.520	28.820	-4.258	1048.77	345	-421.340	27.580	-5.298	1048.11
410	-368.350	28.800	-4.268	1048.76	344	-422.160	27.560	-5.338	1048.10
409	-369.170	28.780	-4.288	1048.75	343	-422.970	27.540	-5.338	1048.09
408	-369.990	28.760	-4.348	1048.74	342	-423.780	27.520	-5.398	1048.08
407	-370.810	28.740	-4.378	1048.73	341	-424.590	27.500	-5.428	1048.07
406	-371.640	28.720	-4.378	1048.72	340	-425.400	27.480	-5.428	1048.06

339	-426.210	27.460	-5.478	1048.05
338	-427.020	27.450	-5.548	1048.04
337	-427.840	27.430	-5.628	1048.03
336	-428.650	27.410	-5.698	1048.02
335	-429.460	27.390	-5.728	1048.01
334	-430.270	27.370	-5.878	1048.00
333	-431.080	27.380	-5.948	1047.99
332	-431.890	27.380	-5.998	1047.98
331	-432.700	27.390	-6.028	1047.97
330	-433.510	27.390	-6.028	1047.96
329	-434.320	27.400	-6.028	1047.95
328	-435.130	27.410	-6.078	1047.94
327	-435.950	27.410	-6.148	1047.93
326	-436.760	27.420	-6.178	1047.92
325	-437.570	27.420	-6.198	1047.91
324	-438.380	27.430	-6.238	1047.90
323	-439.190	27.430	-6.248	1047.89
322	-440.000	27.440	-6.198	1047.88
321	-440.810	27.450	-6.228	1047.87
320	-441.620	27.450	-6.348	1047.86
319	-442.430	27.460	-6.448	1047.85
318	-443.240	27.460	-6.478	1047.84
317	-444.050	27.470	-6.418	1047.83
316	-444.860	27.470	-6.348	1047.82
315	-445.670	27.480	-6.328	1047.81
314	-446.480	27.490	-6.328	1047.80
313	-447.300	27.490	-6.328	1047.79
312	-448.110	27.500	-6.428	1047.78
311	-448.920	27.500	-6.478	1047.77
310	-449.730	27.510	-6.528	1047.76
309	-450.540	27.510	-6.548	1047.75
308	-451.350	27.520	-6.548	1047.74
307	-452.160	27.520	-6.498	1047.73
306	-452.970	27.530	-6.418	1047.72
305	-453.780	27.540	-6.368	1047.71
304	-454.590	27.540	-6.338	1047.70
303	-455.400	27.550	-6.268	1047.69
302	-456.210	27.550	-6.248	1047.68
301	-457.020	27.560	-6.298	1047.67
300	-457.840	27.560	-6.378	1047.66
299	-458.650	27.570	-6.348	1047.65
298	-459.460	27.580	-6.378	1047.64
297	-460.270	27.580	-6.508	1047.63
296	-461.080	27.590	-6.548	1047.62
295	-461.890	27.590	-6.548	1047.61
294	-462.700	27.600	-6.548	1047.60
293	-463.510	27.600	-6.548	1047.59
292	-464.320	27.610	-6.548	1047.58
291	-465.130	27.620	-6.548	1047.57
290	-465.940	27.620	-6.598	1047.56
289	-466.750	27.630	-6.628	1047.55
288	-467.560	27.630	-6.628	1047.54
287	-468.370	27.640	-6.628	1047.53
286	-469.190	27.640	-6.568	1047.52
285	-470.000	27.650	-6.548	1047.51
284	-470.810	27.660	-6.598	1047.50
283	-471.630	27.670	-6.678	1047.49
282	-472.450	27.700	-6.648	1047.48
281	-473.280	27.780	-6.628	1047.47
280	-474.100	27.820	-6.628	1047.46
279	-474.930	27.860	-6.678	1047.45
278	-475.750	27.900	-6.648	1047.44
277	-476.570	27.940	-6.628	1047.43
276	-477.400	27.980	-6.628	1047.42
275	-478.220	28.020	-6.678	1047.41
274	-479.050	28.060	-6.758	1047.40

273	-479.870	28.100	-6.778	1047.39
272	-480.690	28.140	-6.668	1047.38
271	-481.520	28.180	-6.568	1047.37
270	-482.340	28.220	-6.548	1047.36
269	-483.160	28.260	-6.548	1047.35
268	-483.990	28.300	-6.608	1047.34
267	-484.810	28.340	-6.738	1047.33
266	-485.640	28.380	-6.828	1047.32
265	-486.460	28.420	-6.848	1047.31
264	-487.280	28.460	-6.848	1047.30
263	-488.110	28.500	-6.848	1047.29
262	-488.930	28.540	-6.848	1047.28
261	-489.760	28.580	-6.788	1047.27
260	-490.580	28.620	-6.778	1047.26
259	-491.400	28.660	-6.718	1047.25
258	-492.230	28.700	-6.638	1047.24
257	-493.050	28.740	-6.628	1047.23
256	-493.880	28.780	-6.628	1047.22
255	-494.700	28.820	-6.628	1047.21
254	-495.520	28.860	-6.738	1047.20
253	-496.350	28.900	-6.798	1047.19
252	-497.170	28.940	-6.838	1047.18
251	-497.990	28.980	-6.788	1047.17
250	-498.820	29.020	-6.658	1047.16
249	-499.640	29.060	-6.628	1047.15
248	-500.470	29.100	-6.628	1047.14
247	-501.290	29.140	-6.628	1047.13
246	-502.110	29.180	-6.628	1047.12
245	-502.940	29.220	-6.678	1047.11
244	-503.760	29.260	-6.758	1047.10
243	-504.590	29.300	-6.778	1047.09
242	-505.410	29.340	-6.778	1047.08
241	-506.230	29.380	-6.828	1047.07
240	-507.060	29.420	-6.848	1047.06
239	-507.880	29.460	-6.848	1047.05
238	-508.700	29.500	-6.848	1047.04
237	-509.530	29.540	-6.848	1047.03
236	-510.350	29.580	-6.848	1047.02
235	-511.180	29.620	-6.908	1047.01
234	-512.000	29.660	-6.928	1047.00
233	-512.830	29.650	-6.928	1046.99
232	-513.670	29.640	-6.978	1046.98
231	-514.500	29.640	-6.998	1046.97
230	-515.330	29.630	-6.998	1046.96
229	-516.160	29.620	-6.938	1046.95
228	-517.000	29.610	-6.868	1046.94
227	-517.830	29.610	-6.848	1046.93
226	-518.660	29.600	-6.848	1046.92
225	-519.500	29.590	-6.848	1046.91
224	-520.330	29.580	-6.848	1046.90
223	-521.160	29.580	-6.848	1046.89
222	-522.000	29.570	-6.848	1046.88
221	-522.830	29.560	-6.848	1046.87
220	-523.660	29.560	-6.848	1046.86
219	-524.490	29.550	-6.848	1046.85
218	-525.330	29.540	-6.848	1046.84
217	-526.160	29.530	-6.848	1046.83
216	-526.990	29.530	-6.848	1046.82
215	-527.830	29.520	-6.788	1046.81
214	-528.660	29.510	-6.828	1046.80
213	-529.490	29.500	-6.848	1046.79
212	-530.320	29.500	-6.848	1046.78
211	-531.160	29.490	-6.848	1046.77
210	-531.990	29.480	-6.848	1046.76
209	-532.820	29.480	-6.848	1046.75
208	-533.660	29.470	-6.848	1046.74

207	-534.490	29.460	-6.848	1046.73
206	-535.320	29.450	-6.788	1046.72
205	-536.150	29.450	-6.778	1046.71
204	-536.990	29.440	-6.778	1046.70
203	-537.820	29.430	-6.838	1046.69
202	-538.650	29.430	-6.848	1046.68
201	-539.490	29.420	-6.848	1046.67
200	-540.320	29.410	-6.848	1046.66
199	-541.150	29.400	-6.848	1046.65
198	-541.990	29.400	-6.848	1046.64
197	-542.820	29.390	-6.848	1046.63
196	-543.650	29.380	-6.818	1046.62
195	-544.480	29.370	-6.778	1046.61
194	-545.320	29.370	-6.718	1046.60
193	-546.150	29.360	-6.698	1046.59
192	-546.980	29.350	-6.698	1046.58
191	-547.820	29.350	-6.698	1046.57
190	-548.650	29.340	-6.698	1046.56
189	-549.480	29.330	-6.698	1046.55
188	-550.310	29.320	-6.698	1046.54
187	-551.150	29.320	-6.758	1046.53
186	-551.980	29.310	-6.778	1046.52
185	-552.810	29.300	-6.838	1046.51
184	-553.650	29.300	-6.848	1046.50
183	-554.480	29.310	-6.848	1046.49
182	-555.320	29.330	-6.848	1046.48
181	-556.150	29.340	-6.848	1046.47
180	-556.990	29.360	-6.848	1046.46
179	-557.820	29.370	-6.908	1046.45
178	-558.660	29.390	-6.928	1046.44
177	-559.490	29.400	-6.988	1046.43
176	-560.330	29.420	-6.938	1046.42
175	-561.160	29.440	-6.928	1046.41
174	-562.000	29.450	-6.858	1046.40
173	-562.830	29.470	-6.658	1046.39
172	-563.670	29.480	-6.558	1046.38
171	-564.500	29.500	-6.548	1046.37
170	-565.340	29.510	-6.548	1046.36
169	-566.170	29.530	-6.548	1046.35
168	-567.010	29.550	-6.608	1046.34
167	-567.840	29.560	-6.628	1046.33
166	-568.680	29.580	-6.688	1046.32
165	-569.510	29.590	-6.698	1046.31
164	-570.350	29.610	-6.638	1046.30
163	-571.180	29.620	-6.628	1046.29
162	-572.020	29.640	-6.558	1046.28
161	-572.850	29.660	-6.488	1046.27
160	-573.690	29.670	-6.478	1046.26
159	-574.520	29.690	-6.538	1046.25
158	-575.360	29.700	-6.548	1046.24
157	-576.190	29.720	-6.548	1046.23
156	-577.030	29.730	-6.488	1046.22
155	-577.860	29.750	-6.408	1046.21
154	-578.700	29.770	-6.338	1046.20
153	-579.530	29.780	-6.328	1046.19
152	-580.370	29.800	-6.448	1046.18
151	-581.200	29.810	-6.598	1046.17
150	-582.040	29.830	-6.748	1046.16
149	-582.870	29.840	-6.778	1046.15
148	-583.710	29.860	-6.778	1046.14
147	-584.540	29.880	-6.518	1046.13
146	-585.380	29.890	-6.278	1046.12
145	-586.210	29.910	-6.118	1046.11
144	-587.050	29.920	-5.968	1046.10
143	-587.890	29.940	-5.818	1046.09
142	-588.720	29.950	-5.738	1046.08

141	-589.560	29.970	-5.658	1046.07
140	-590.390	29.990	-5.618	1046.06
139	-591.230	30.000	-5.578	1046.05
138	-592.060	30.020	-5.698	1046.04
137	-592.900	30.030	-5.918	1046.03
136	-593.730	30.050	-6.078	1046.02
135	-594.570	30.060	-6.168	1046.01
134	-595.400	30.080	-6.308	1046.00
133	-596.200	30.130	-6.388	1045.99
132	-597.010	30.170	-6.398	1045.98
131	-597.810	30.220	-6.398	1045.97
130	-598.610	30.260	-6.398	1045.96
129	-599.420	30.310	-6.338	1045.95
128	-600.220	30.360	-6.388	1045.94
127	-601.020	30.400	-6.468	1045.93
126	-601.830	30.450	-6.538	1045.92
125	-602.630	30.500	-6.548	1045.91
124	-603.430	30.540	-6.548	1045.90
123	-604.240	30.590	-6.548	1045.89
122	-605.040	30.630	-6.548	1045.88
121	-605.840	30.680	-6.548	1045.87
120	-606.640	30.730	-6.548	1045.86
119	-607.450	30.770	-6.618	1045.85
118	-608.250	30.820	-6.688	1045.84
117	-609.050	30.860	-6.768	1045.83
116	-609.860	30.910	-6.778	1045.82
115	-610.660	30.960	-6.778	1045.81
114	-611.460	31.000	-6.838	1045.80
113	-612.270	31.050	-6.918	1045.79
112	-613.070	31.090	-6.928	1045.78
111	-613.870	31.140	-6.988	1045.77
110	-614.680	31.190	-7.068	1045.76
109	-615.480	31.230	-7.138	1045.75
108	-616.280	31.280	-7.218	1045.74
107	-617.080	31.330	-7.188	1045.73
106	-617.890	31.370	-7.148	1045.72
105	-618.690	31.420	-7.218	1045.71
104	-619.490	31.460	-7.228	1045.70
103	-620.300	31.510	-7.228	1045.69
102	-621.100	31.560	-7.228	1045.68
101	-621.900	31.600	-7.228	1045.67
100	-622.710	31.650	-7.228	1045.66
99	-623.510	31.690	-7.288	1045.65
98	-624.310	31.740	-7.298	1045.64
97	-625.120	31.790	-7.298	1045.63
96	-625.920	31.830	-7.298	1045.62
95	-626.720	31.880	-7.298	1045.61
94	-627.530	31.920	-7.228	1045.60
93	-628.330	31.970	-7.088	1045.59
92	-629.130	32.020	-6.938	1045.58
91	-629.930	32.060	-6.928	1045.57
90	-630.740	32.110	-6.988	1045.56
89	-631.540	32.160	-7.138	1045.55
88	-632.340	32.200	-7.288	1045.54
87	-633.150	32.250	-7.368	1045.53
86	-633.950	32.290	-7.438	1045.52
85	-634.750	32.340	-7.448	1045.51
84	-635.560	32.390	-7.378	1045.50
83	-636.420	32.380	-7.438	1045.49
82	-637.280	32.370	-7.448	1045.48
81	-638.140	32.370	-7.448	1045.47
80	-639.000	32.360	-7.518	1045.46
79	-639.860	32.360	-7.528	1045.45
78	-640.730	32.350	-7.528	1045.44
77	-641.590	32.340	-7.528	1045.43
76	-642.450	32.340	-7.458	1045.42

9	-700.180	31.930	-6.848	1044.75
8	-701.040	31.920	-6.998	1044.74
7	-701.910	31.920	-7.068	1044.73
6	-702.770	31.910	-6.998	1044.72
5	-703.630	31.900	-6.928	1044.71
4	-704.490	31.900	-6.778	1044.70
3	-705.350	31.890	-6.698	1044.69
2	-706.210	31.890	-6.628	1044.68
1	-707.080	31.880	-6.548	1044.67

SOUTH LINE 3 (ONSHORE PROFILE) No offshore line information for this line

22 April 1990 1430 to 1450 (CDT) (ONSHORE)

PT. # X (m) Y (m) Z (m) TIME COMMENTS

369	17.607	44.803	2.281	
368	14.215	45.047	2.245	
367	5.631	44.693	2.431	
366	0.368	44.893	2.739	
365	-3.343	44.770	2.919	
364	-7.940	44.789	2.978	
363	-12.437	44.693	2.745	
362	-17.557	44.587	2.203	
361	-21.836	44.605	1.856	
360	-29.195	44.300	1.439	
359	-37.857	45.057	1.042	
358	-46.757	44.964	0.865	
357	-49.614	45.043	0.667	
356	-50.986	45.084	0.395	
355	-52.283	45.253	0.251	
354	-54.142	44.990	-0.016	
353	-56.317	45.105	-0.008	
352	-61.312	45.140	-0.003	
351	-66.937	45.045	-0.075	
350	-71.889	45.085	-0.137	
349	-77.938	45.133	-0.203	
348	-83.879	45.300	-0.290	
347	-90.344	45.180	-0.390	
346	-96.532	45.264	-0.490	
345	-102.676	45.387	-0.463	
344	-109.441	45.187	-0.598	
343	-118.598	45.268	-0.878	
342	-126.408	45.483	-1.293	
341	-133.795	45.542	-1.543	
340	-141.692	45.854	-1.799	
339	-150.286	45.802	-2.219	
338	-168.671	45.470	-2.437	
337	-177.766	46.085	-2.192	

waterline

SOUTH LINE 4 (MERGED ON- & OFFSHORE PROFILES)

22 April 1990 1405 to 1425 (CDT) (ONSHORE)

22 April 1990 1022 to 1029 (CDT) (OFFSHORE)

Average offset = -0.484751m

PT. # X (m) Y (m) Z (m) TIME COMMENTS

294	38.755	59.943	3.269	
295	35.487	60.285	2.861	
296	26.694	59.845	2.445	
297	17.526	59.928	2.251	
298	8.719	59.784	2.271	
299	0.488	60.001	2.809	
300	-4.047	60.036	3.105	
301	-7.914	60.076	3.171	
302	-10.609	60.024	2.998	
303	-16.044	59.873	2.384	
304	-25.111	60.180	1.710	
305	-33.548	60.216	1.461	
306	-37.702	59.943	1.288	

75	-643.310	32.330	-7.308	1045.41
74	-644.170	32.320	-7.018	1045.40
73	-645.030	32.320	-6.648	1045.39
72	-645.900	32.310	-6.488	1045.38
71	-646.760	32.310	-6.338	1045.37
70	-647.620	32.300	-6.188	1045.36
69	-648.480	32.290	-6.178	1045.35
68	-649.340	32.290	-6.248	1045.34
67	-650.200	32.280	-6.248	1045.33
66	-651.070	32.280	-6.248	1045.32
65	-651.930	32.270	-6.318	1045.31
64	-652.790	32.260	-6.398	1045.30
63	-653.650	32.260	-6.468	1045.29
62	-654.510	32.250	-6.548	1045.28
61	-655.370	32.250	-6.688	1045.27
60	-656.240	32.240	-6.838	1045.26
59	-657.100	32.230	-6.918	1045.25
58	-658.820	32.220	-7.138	1045.24
57	-658.820	32.220	-7.288	1045.23
56	-659.680	32.220	-7.368	1045.22
55	-660.540	32.210	-7.378	1045.21
54	-661.410	32.200	-7.378	1045.20
53	-662.270	32.200	-7.298	1045.19
52	-663.130	32.190	-7.228	1045.18
51	-663.990	32.180	-7.228	1045.17
50	-664.850	32.180	-7.228	1045.16
49	-665.710	32.170	-7.148	1045.15
48	-666.580	32.170	-7.008	1045.14
47	-667.440	32.160	-6.928	1045.13
46	-668.300	32.150	-6.928	1045.12
45	-669.160	32.150	-6.928	1045.11
44	-670.020	32.140	-6.998	1045.10
43	-670.880	32.140	-7.068	1045.09
42	-671.750	32.130	-6.998	1045.08
41	-672.610	32.120	-6.928	1045.07
40	-673.470	32.120	-6.928	1045.06
39	-674.330	32.110	-6.958	1045.05
38	-675.190	32.110	-6.998	1045.04
37	-676.050	32.100	-6.928	1045.03
36	-676.920	32.090	-6.848	1045.02
35	-677.780	32.090	-6.708	1045.01
34	-678.640	32.080	-6.698	1045.00
33	-679.500	32.070	-6.698	1044.99
32	-680.360	32.070	-6.698	1044.98
31	-681.230	32.060	-6.698	1044.97
30	-682.090	32.060	-6.698	1044.96
29	-682.950	32.050	-6.698	1044.95
28	-683.810	32.040	-6.698	1044.94
27	-684.670	32.040	-6.698	1044.93
26	-685.530	32.030	-6.628	1044.92
25	-686.400	32.030	-6.628	1044.91
24	-687.260	32.020	-6.838	1044.90
23	-688.120	32.010	-6.848	1044.89
22	-688.980	32.010	-6.848	1044.88
21	-689.840	32.000	-6.918	1044.87
20	-690.700	32.000	-6.848	1044.86
19	-691.570	31.990	-6.848	1044.85
18	-692.430	31.980	-6.778	1044.84
17	-693.290	31.980	-6.698	1044.83
16	-694.150	31.970	-6.698	1044.82
15	-695.010	31.970	-6.628	1044.81
14	-695.870	31.960	-6.698	1044.80
13	-696.740	31.950	-6.698	1044.79
12	-697.600	31.950	-6.698	1044.78
11	-698.460	31.940	-6.628	1044.77
10	-699.320	31.930	-6.698	1044.76

548	-144.410	61.330	-2.962	1027.80
547	-144.800	61.310	-2.962	1027.79
546	-145.180	61.290	-2.962	1027.78
545	-145.570	61.270	-2.962	1027.77
544	-145.960	61.250	-2.962	1027.76
543	-146.340	61.230	-2.942	1027.75
542	-146.730	61.210	-2.902	1027.74
541	-147.110	61.190	-2.882	1027.73
540	-147.500	61.170	-2.882	1027.72
539	-147.890	61.150	-2.842	1027.71
538	-148.270	61.130	-2.812	1027.70
537	-148.660	61.110	-2.792	1027.69
536	-149.050	61.090	-2.752	1027.68
535	-149.430	61.070	-2.692	1027.67
534	-149.820	61.050	-2.622	1027.66
533	-150.200	61.030	-2.562	1027.65
532	-150.590	61.010	-2.522	1027.64
531	-150.980	60.990	-2.512	1027.63
530	-151.360	60.970	-2.472	1027.62
529	-151.750	60.950	-2.472	1027.61
528	-152.140	60.930	-2.472	1027.60
527	-152.520	60.910	-2.432	1027.59
526	-152.910	60.890	-2.392	1027.58
525	-153.290	60.870	-2.362	1027.57
524	-153.680	60.850	-2.322	1027.56
523	-154.070	60.830	-2.282	1027.55
522	-154.450	60.810	-2.282	1027.54
521	-154.840	60.790	-2.282	1027.53
520	-155.220	60.770	-2.242	1027.52
519	-155.610	60.750	-2.192	1027.51
518	-156.000	60.730	-2.152	1027.50
517	-156.380	60.710	-2.132	1027.49
516	-156.770	60.690	-2.132	1027.48
515	-157.160	60.660	-2.132	1027.47
514	-157.540	60.640	-2.092	1027.46
513	-157.930	60.620	-2.062	1027.45
512	-158.300	60.590	-2.062	1027.43
511	-158.690	60.560	-2.062	1027.42
510	-159.070	60.540	-2.062	1027.41
509	-159.460	60.520	-2.022	1027.40
508	-160.240	60.500	-1.982	1027.39
507	-160.630	60.480	-1.982	1027.38
506	-161.020	60.460	-1.982	1027.37
505	-161.400	60.440	-1.942	1027.36
504	-161.790	60.420	-1.872	1027.35
503	-162.180	60.400	-1.832	1027.34
502	-162.560	60.380	-1.832	1027.33
501	-162.950	60.360	-1.832	1027.32
500	-163.330	60.340	-1.792	1027.31
499	-163.720	60.320	-1.722	1027.30
498	-164.110	60.300	-1.682	1027.29
497	-164.490	60.280	-1.682	1027.28
496	-164.880	60.260	-1.682	1027.27
495	-165.270	60.240	-1.642	1027.26
494	-165.650	60.220	-1.612	1027.25
493	-166.040	60.200	-1.612	1027.24
492	-166.420	60.180	-1.612	1027.23
491	-166.810	60.160	-1.612	1027.22
490	-167.200	60.140	-1.612	1027.21
489	-167.580	60.120	-1.612	1027.20
488	-167.970	60.100	-1.572	1027.19
487	-168.350	60.080	-1.552	1027.18
486	-168.740	60.060	-1.592	1027.17
485	-169.130	60.040	-1.572	1027.16
484	-169.510	60.020	-1.532	1027.15
483	-169.900	60.000	-1.532	1027.14

307	-46.795	59.934	0.740	
308	-49.509	59.893	0.639	
309	-51.369	59.800	0.384	waterline
310	-54.047	59.893	0.010	
311	-58.216	59.783	0.020	
312	-62.809	59.883	-0.001	
313	-67.791	59.759	-0.042	
314	-73.228	59.875	-0.139	
315	-78.611	59.820	-0.191	
316	-83.821	59.898	-0.232	
317	-88.494	59.805	-0.283	
318	-94.236	59.744	-0.337	
319	-99.136	59.992	-0.402	
320	-104.079	59.964	-0.447	
321	-109.269	59.850	-0.577	
599	-113.770	61.990	-0.812	1028.31
598	-114.510	61.980	-0.862	1028.30
597	-115.250	61.970	-0.862	1028.29
596	-115.990	61.960	-0.862	1028.28
595	-116.730	61.950	-0.892	1028.27
594	-117.470	61.950	-0.932	1028.26
593	-118.210	61.940	-0.962	1028.25
592	-118.950	61.930	-1.042	1028.24
591	-119.690	61.920	-1.102	1028.23
590	-120.430	61.910	-1.152	1028.22
589	-121.160	61.910	-1.202	1028.21
588	-121.900	61.900	-1.232	1028.20
587	-122.640	61.890	-1.262	1028.19
586	-123.380	61.880	-1.312	1028.18
585	-124.120	61.870	-1.322	1028.17
584	-124.860	61.870	-1.362	1028.16
583	-125.600	61.860	-1.402	1028.15
582	-126.340	61.850	-1.432	1028.14
581	-127.080	61.840	-1.492	1028.13
580	-127.820	61.830	-1.562	1028.12
579	-128.560	61.820	-1.642	1028.11
578	-129.300	61.820	-1.712	1028.10
577	-130.040	61.810	-1.792	1028.09
576	-130.770	61.800	-1.832	1028.08
575	-131.510	61.790	-1.862	1028.07
574	-132.250	61.780	-1.912	1028.06
573	-132.990	61.780	-1.942	1028.05
572	-133.730	61.770	-1.982	1028.04
571	-134.470	61.760	-2.012	1028.03
570	-135.210	61.750	-2.062	1028.02
569	-135.950	61.740	-2.122	1028.01
568	-136.690	61.740	-2.222	1028.00
567	-137.430	61.710	-2.262	1027.99
566	-137.850	61.690	-2.312	1027.98
565	-137.850	61.670	-2.392	1027.97
564	-138.230	61.650	-2.432	1027.96
563	-138.620	61.630	-2.462	1027.95
562	-139.010	61.610	-2.542	1027.94
561	-139.390	61.590	-2.612	1027.93
560	-139.780	61.570	-2.722	1027.92
559	-140.160	61.550	-2.812	1027.91
558	-140.550	61.530	-2.812	1027.90
557	-140.940	61.510	-2.842	1027.89
556	-141.320	61.490	-2.882	1027.88
555	-141.710	61.470	-2.912	1027.87
554	-142.090	61.450	-2.922	1027.86
553	-142.480	61.430	-2.882	1027.85
552	-142.870	61.410	-2.812	1027.84
551	-143.250	61.390	-2.802	1027.83
550	-143.640	61.370	-2.922	1027.82
549	-144.030	61.350	-2.962	1027.81

482	-170.290	59.980	-1.532	1027.13	59.980	-2.662	1026.47
481	-170.670	59.960	-1.532	1027.12	59.960	-2.662	1026.46
480	-171.060	59.940	-1.532	1027.11	59.940	-2.662	1026.45
479	-171.440	59.920	-1.532	1027.10	59.920	-2.702	1026.44
478	-171.830	59.900	-1.532	1027.09	59.900	-2.732	1026.43
477	-172.220	59.880	-1.532	1027.08	59.880	-2.732	1026.42
476	-172.600	59.860	-1.532	1027.07	59.860	-2.732	1026.41
475	-172.990	59.840	-1.572	1027.06	59.840	-2.782	1026.40
474	-173.380	59.820	-1.612	1027.05	59.820	-2.812	1026.39
473	-173.760	59.800	-1.612	1027.04	59.800	-2.812	1026.38
472	-174.150	59.780	-1.612	1027.03	59.780	-2.812	1026.37
471	-174.530	59.760	-1.622	1027.02	59.760	-2.812	1026.36
470	-174.920	59.740	-1.642	1027.01	59.740	-2.812	1026.35
469	-175.310	59.720	-1.672	1027.00	59.720	-2.852	1026.34
468	-175.700	59.700	-1.682	1026.99	59.700	-2.882	1026.33
467	-176.090	59.680	-1.682	1026.98	59.680	-2.882	1026.32
466	-176.480	59.660	-1.722	1026.97	59.660	-2.882	1026.31
465	-176.870	59.640	-1.762	1026.96	59.640	-2.882	1026.30
464	-177.260	59.620	-1.762	1026.95	59.620	-2.882	1026.29
463	-177.650	59.600	-1.802	1026.94	59.600	-2.882	1026.28
462	-178.040	59.580	-1.832	1026.93	59.580	-2.932	1026.27
461	-178.430	59.560	-1.832	1026.92	59.560	-2.962	1026.26
460	-178.820	59.540	-1.872	1026.91	59.540	-2.962	1026.25
459	-179.210	59.520	-1.912	1026.90	59.520	-2.962	1026.24
458	-179.600	59.500	-1.912	1026.89	59.500	-2.962	1026.23
457	-180.000	59.480	-1.912	1026.88	59.480	-2.982	1026.22
456	-180.400	59.460	-1.952	1026.87	59.460	-3.022	1026.21
455	-180.800	59.440	-1.982	1026.86	59.440	-3.032	1026.20
454	-181.200	59.420	-1.982	1026.85	59.420	-3.032	1026.19
453	-181.600	59.400	-2.022	1026.84	59.400	-3.032	1026.18
452	-182.000	59.380	-2.062	1026.83	59.380	-3.052	1026.17
451	-182.400	59.360	-2.102	1026.82	59.360	-3.092	1026.16
450	-182.800	59.340	-2.132	1026.81	59.340	-3.112	1026.15
449	-183.200	59.320	-2.132	1026.80	59.320	-3.112	1026.14
448	-183.600	59.300	-2.172	1026.79	59.300	-3.112	1026.13
447	-184.000	59.280	-2.172	1026.78	59.280	-3.112	1026.12
446	-184.400	59.260	-2.142	1026.77	59.260	-3.132	1026.11
445	-184.800	59.240	-2.172	1026.76	59.240	-3.172	1026.10
444	-185.200	59.220	-2.192	1026.75	59.220	-3.182	1026.09
443	-185.600	59.200	-2.212	1026.74	59.200	-3.182	1026.08
442	-186.000	59.180	-2.212	1026.73	59.180	-3.182	1026.07
441	-186.400	59.160	-2.252	1026.72	59.160	-3.182	1026.06
440	-186.800	59.140	-2.252	1026.71	59.140	-3.202	1026.05
439	-187.200	59.120	-2.282	1026.70	59.120	-3.242	1026.04
438	-187.600	59.100	-2.322	1026.69	59.100	-3.262	1026.03
437	-188.000	59.080	-2.362	1026.68	59.080	-3.262	1026.02
436	-188.400	59.060	-2.362	1026.67	59.060	-3.262	1026.01
435	-188.800	59.040	-2.362	1026.66	59.040	-3.262	1026.00
434	-189.200	59.020	-2.362	1026.65	59.020	-3.262	1025.99
433	-189.600	59.000	-2.402	1026.64	59.000	-3.302	1025.98
432	-190.000	58.980	-2.432	1026.63	58.980	-3.332	1025.97
431	-190.400	58.960	-2.432	1026.62	58.960	-3.332	1025.96
430	-190.800	58.940	-2.432	1026.61	58.940	-3.332	1025.95
429	-191.200	58.920	-2.432	1026.60	58.920	-3.332	1025.94
428	-191.600	58.900	-2.432	1026.59	58.900	-3.332	1025.93
427	-192.000	58.880	-2.472	1026.58	58.880	-3.332	1025.92
426	-192.400	58.860	-2.512	1026.57	58.860	-3.332	1025.91
425	-192.800	58.840	-2.512	1026.56	58.840	-3.332	1025.90
424	-193.200	58.820	-2.512	1026.55	58.820	-3.332	1025.89
423	-193.600	58.800	-2.512	1026.54	58.800	-3.332	1025.88
422	-194.000	58.780	-2.552	1026.53	58.780	-3.382	1025.87
421	-194.400	58.760	-2.582	1026.52	58.760	-3.412	1025.86
420	-194.800	58.740	-2.582	1026.51	58.740	-3.412	1025.85
419	-195.200	58.720	-2.582	1026.50	58.720	-3.412	1025.84
418	-195.600	58.700	-2.622	1026.49	58.700	-3.412	1025.83
417	-196.000	58.680	-2.662	1026.48	58.680	-3.412	1025.82

416	-254.440	61.460	-2.662	1026.47	61.460	-2.662	1026.47
415	-255.210	61.490	-2.662	1026.46	61.490	-2.662	1026.46
414	-255.980	61.520	-2.662	1026.45	61.520	-2.662	1026.45
413	-256.750	61.550	-2.702	1026.44	61.550	-2.702	1026.44
412	-257.520	61.580	-2.732	1026.43	61.580	-2.732	1026.43
411	-258.290	61.610	-2.732	1026.42	61.610	-2.732	1026.42
410	-259.060	61.650	-2.732	1026.41	61.650	-2.732	1026.41
409	-259.830	61.680	-2.782	1026.40	61.680	-2.782	1026.40
408	-260.600	61.710	-2.812	1026.39	61.710	-2.812	1026.39
407	-261.370	61.740	-2.812	1026.38	61.740	-2.812	1026.38
406	-262.140	61.770	-2.812	1026.37	61.770	-2.812	1026.37
405	-262.910	61.800	-2.812	1026.36	61.800	-2.812	1026.36
404	-263.680	61.840	-2.812	1026.35	61.840	-2.812	1026.35
403	-264.450	61.870	-2.852	1026.34	61.870	-2.852	1026.34
402	-265.220	61.900	-2.882	1026.33	61.900	-2.882	1026.33
401	-265.990	61.930	-2.882	1026.32	61.930	-2.882	1026.32
400	-266.760	61.960	-2.882	1026.31	61.960	-2.882	1026.31
399	-267.530	61.990	-2.882	1026.30	61.990	-2.882	1026.30
398	-268.300	62.030	-2.882	1026.29	62.030	-2.882	1026.29
397	-269.070	62.060	-2.882	1026.28	62.060	-2.882	1026.28
396	-269.840	62.090	-2.932	1026.27	62.090	-2.932	1026.27
395	-270.610	62.120	-2.962	1026.26	62.120	-2.962	1026.26
394	-271.380	62.150	-2.962	1026.25	62.150	-2.962	1026.25
393	-272.150	62.190	-2.962	1026.24	62.190	-2.962	1026.24
392	-272.920	62.220	-2.962	1026.23	62.220	-2.962	1026.23
391	-273.690	62.250	-2.982	1026.22	62.250	-2.982	1026.22
390	-274.460	62.280	-3.022	1026.21	62.280	-3.022	1026.21
389	-275.230	62.310	-3.032	1026.20	62.310	-3.032	1026.20
388	-276.000	62.340	-3.032	1026.19	62.340	-3.032	1026.19
387	-276.770	62.380	-3.032	1026.18	62.380	-3.032	1026.18
386	-277.540	62.410	-3.032	1026.17	62.410	-3.032	1026.17
385	-278.310	62.440	-3.052	1026.16	62.440	-3.052	1026.16
384	-279.080	62.470	-3.092	1026.15	62.470	-3.092	1026.15
383	-279.850	62.500	-3.112	1026.14	62.500	-3.112	1026.14
382	-280.620	62.530	-3.112	1026.13	62.530	-3.112	1026.13
381	-281.390	62.570	-3.112	1026.12	62.570	-3.112	1026.12
380	-282.160	62.600	-3.112	1026.11	62.600	-3.112	1026.11
379	-282.930	62.630	-3.132	1026.10	62.630	-3.132	1026.10
378	-283.700	62.660	-3.172	1026.09	62.660	-3.172	1026.09
377	-284.470	62.690	-3.182	1026.08	62.690	-3.182	1026.08
376	-285.240	62.720	-3.182	1026.07	62.720	-3.182	1026.07
375	-286.010	62.760	-3.182	1026.06	62.760	-3.182	1026.06
374	-286.780	62.790	-3.182	1026.05	62.790	-3.182	1026.05
373	-287.550	62.820	-3.202	1026.04	62.820	-3.202	1026.04
372	-288.320	62.850	-3.242	1026.03	62.850	-3.242	1026.03
371	-289.090	62.880	-3.262	1026.02	62.880	-3.262	1026.02
370	-289.860	62.920	-3.262	1026.01	62.920	-3.262	1026.01
369	-290.630	62.950	-3.262	1026.00	62.950	-3.262	1026.00
368	-291.420	62.940	-3.262	1025.99	62.940	-3.262	1025.99
367	-292.210	62.920	-3.262	1025.98	62.920	-3.262	1025.98
366	-293.000	62.910	-3.302	1025.97	62.910	-3.302	1025.97
365	-293.790	62.900	-3.332	1025.96	62.900	-3.332	1025.96
364	-294.580	62.890	-3.332	1025.95	62.890	-3.332	1025.95
363	-295.370	62.880	-3.332	1025.94	62.880	-3.332	1025.94
362	-296.150	62.870	-3.332	1025.93	62.870	-3.332	1025.93
361	-296.940	62.860	-3.332	1025.92	62.860	-3.332	1025.92
360	-297.730	62.850	-3.332	1025.91	62.850	-3.332	1025.91
359	-298.520	62.840	-3.332	1025.90	62.840	-3.332	1025.90
358	-299.310	62.820	-3.332	1025.89	62.820	-3.332	1025.89
357	-300.100	62.810	-3.332	1025.88	62.810	-3.332	1025.88
356	-300.890	62.800	-3.382	1025.87	62.800	-3.382	1025.87
355	-301.680	62.790	-3.412	1025.86	62.790	-3.412	1025.86
354	-302.470	62.780	-3.412	1025.85	62.780	-3.412	1025.85
353	-303.250	62.770	-3.412	1025.84	62.770	-3.412	1025.84
352	-304.040	62.760	-3.412	1025.83	62.760	-3.412	1025.83
351	-304.830	62.750	-3.412	1025.82	62.750	-3.412	1025.82

350	-305.620	62.740	-3.412	1025.81
349	-306.410	62.720	-3.412	1025.80
348	-307.200	62.710	-3.452	1025.79
347	-307.990	62.700	-3.482	1025.78
346	-308.780	62.690	-3.482	1025.77
345	-309.570	62.680	-3.482	1025.76
344	-310.360	62.670	-3.482	1025.75
343	-311.140	62.660	-3.482	1025.74
342	-311.930	62.650	-3.482	1025.73
341	-312.720	62.640	-3.512	1025.72
340	-313.510	62.620	-3.542	1025.71
339	-314.300	62.610	-3.562	1025.70
338	-315.090	62.600	-3.562	1025.69
337	-315.880	62.590	-3.562	1025.68
336	-316.670	62.580	-3.562	1025.67
335	-317.460	62.570	-3.562	1025.66
334	-318.240	62.560	-3.562	1025.65
333	-319.030	62.550	-3.612	1025.64
332	-319.820	62.530	-3.632	1025.63
331	-320.610	62.520	-3.632	1025.62
330	-321.400	62.510	-3.632	1025.61
329	-322.190	62.500	-3.632	1025.60
328	-322.980	62.490	-3.632	1025.59
327	-323.770	62.480	-3.632	1025.58
326	-324.560	62.470	-3.682	1025.57
325	-325.340	62.460	-3.712	1025.56
324	-326.130	62.450	-3.712	1025.55
323	-326.920	62.430	-3.712	1025.54
322	-327.710	62.420	-3.712	1025.53
321	-328.500	62.410	-3.712	1025.52
320	-329.290	62.400	-3.712	1025.51
319	-330.080	62.390	-3.712	1025.50
318	-330.840	62.350	-3.732	1025.49
317	-331.600	62.310	-3.772	1025.48
316	-332.370	62.270	-3.782	1025.47
315	-333.130	62.230	-3.782	1025.46
314	-333.890	62.190	-3.782	1025.45
313	-334.660	62.150	-3.782	1025.44
312	-335.420	62.110	-3.832	1025.43
311	-336.180	62.070	-3.862	1025.42
310	-336.950	62.030	-3.862	1025.41
309	-337.710	61.990	-3.862	1025.40
308	-338.470	61.950	-3.862	1025.39
307	-339.240	61.910	-3.862	1025.38
306	-340.000	61.870	-3.862	1025.37
305	-340.760	61.830	-3.912	1025.36
304	-341.520	61.790	-3.932	1025.35
303	-342.290	61.750	-3.932	1025.34
302	-343.050	61.710	-3.932	1025.33
301	-343.810	61.670	-3.932	1025.32
300	-344.580	61.630	-3.982	1025.31
299	-345.340	61.590	-4.012	1025.30
298	-346.100	61.550	-4.012	1025.29
297	-346.870	61.510	-4.012	1025.28
296	-347.630	61.470	-4.012	1025.27
295	-348.390	61.430	-4.012	1025.26
294	-349.160	61.390	-4.012	1025.25
293	-349.920	61.360	-4.062	1025.24
292	-350.680	61.320	-4.082	1025.23
291	-351.450	61.280	-4.082	1025.22
290	-352.210	61.240	-4.082	1025.21
289	-352.970	61.200	-4.082	1025.20
288	-353.730	61.160	-4.132	1025.19
287	-354.500	61.120	-4.162	1025.18
286	-355.260	61.080	-4.162	1025.17
285	-356.020	61.040	-4.162	1025.16

284	-356.790	61.000	-4.162	1025.15
283	-357.550	60.960	-4.162	1025.14
282	-358.310	60.920	-4.212	1025.13
281	-359.080	60.880	-4.232	1025.12
280	-359.840	60.840	-4.232	1025.11
279	-360.600	60.800	-4.232	1025.10
278	-361.370	60.760	-4.232	1025.09
277	-362.130	60.720	-4.232	1025.08
276	-362.890	60.680	-4.292	1025.07
275	-363.660	60.640	-4.312	1025.06
274	-364.420	60.600	-4.312	1025.05
273	-365.180	60.560	-4.312	1025.04
272	-365.940	60.520	-4.312	1025.03
271	-366.710	60.480	-4.312	1025.02
270	-367.470	60.440	-4.312	1025.01
269	-368.230	60.400	-4.332	1025.00
268	-369.020	60.410	-4.372	1024.99
267	-369.800	60.410	-4.382	1024.98
266	-370.580	60.420	-4.382	1024.97
265	-371.360	60.420	-4.382	1024.96
264	-372.140	60.430	-4.382	1024.95
263	-372.920	60.440	-4.412	1024.94
262	-373.700	60.440	-4.452	1024.93
261	-374.490	60.450	-4.462	1024.92
260	-375.270	60.450	-4.462	1024.91
259	-376.050	60.460	-4.462	1024.90
258	-376.830	60.470	-4.462	1024.89
257	-377.610	60.470	-4.462	1024.88
256	-378.390	60.480	-4.462	1024.87
255	-379.180	60.480	-4.462	1024.86
254	-379.960	60.490	-4.512	1024.85
253	-380.740	60.500	-4.532	1024.84
252	-381.520	60.500	-4.532	1024.83
251	-382.300	60.510	-4.532	1024.82
250	-383.080	60.510	-4.532	1024.81
249	-383.870	60.520	-4.532	1024.80
248	-384.650	60.530	-4.562	1024.79
247	-385.430	60.530	-4.602	1024.78
246	-386.210	60.540	-4.612	1024.77
245	-386.990	60.540	-4.612	1024.76
244	-387.770	60.550	-4.612	1024.75
243	-388.550	60.560	-4.622	1024.74
242	-389.340	60.560	-4.642	1024.73
241	-390.120	60.570	-4.662	1024.72
240	-390.900	60.570	-4.682	1024.71
239	-391.680	60.580	-4.682	1024.70
238	-392.460	60.590	-4.742	1024.69
237	-393.240	60.590	-4.702	1024.68
236	-394.030	60.600	-4.682	1024.67
235	-394.810	60.600	-4.742	1024.66
234	-395.590	60.610	-4.762	1024.65
233	-396.370	60.620	-4.762	1024.64
232	-397.150	60.620	-4.762	1024.63
231	-397.930	60.630	-4.762	1024.62
230	-398.710	60.630	-4.762	1024.61
229	-399.500	60.640	-4.812	1024.60
228	-400.280	60.650	-4.832	1024.59
227	-401.060	60.650	-4.832	1024.58
226	-401.840	60.660	-4.832	1024.57
225	-402.620	60.660	-4.832	1024.56
224	-403.400	60.670	-4.832	1024.55
223	-404.190	60.680	-4.892	1024.54
222	-404.970	60.680	-4.912	1024.53
221	-405.750	60.690	-4.912	1024.52
220	-406.530	60.690	-4.912	1024.51
219	-407.310	60.700	-4.962	1024.50

152	-460.540	61.670	-6.772	1023.83
151	-461.330	61.690	-6.722	1023.82
150	-462.130	61.710	-6.642	1023.81
149	-462.920	61.730	-6.632	1023.80
148	-463.720	61.750	-6.692	1023.79
147	-464.520	61.770	-6.902	1023.78
146	-465.310	61.790	-6.932	1023.77
145	-466.110	61.810	-6.932	1023.76
144	-466.900	61.830	-6.872	1023.75
143	-467.700	61.850	-6.732	1023.74
142	-468.490	61.870	-6.642	1023.73
141	-469.290	61.890	-6.502	1023.72
140	-470.090	61.900	-6.222	1023.71
139	-470.880	61.920	-6.122	1023.70
138	-471.680	61.940	-6.172	1023.69
137	-472.470	61.960	-6.312	1023.68
136	-473.270	61.980	-6.662	1023.67
135	-474.060	62.000	-6.902	1023.66
134	-474.860	62.020	-6.932	1023.65
133	-475.660	62.040	-6.802	1023.64
132	-476.450	62.060	-6.722	1023.63
131	-477.250	62.080	-6.642	1023.62
130	-478.040	62.100	-6.632	1023.61
129	-478.840	62.120	-6.632	1023.60
128	-479.630	62.140	-6.702	1023.59
127	-480.430	62.160	-6.772	1023.58
126	-481.230	62.180	-6.782	1023.57
125	-482.020	62.200	-6.912	1023.56
124	-482.820	62.220	-6.932	1023.55
123	-483.610	62.240	-6.932	1023.54
122	-484.410	62.260	-6.932	1023.53
121	-485.210	62.280	-6.862	1023.52
120	-486.000	62.300	-6.822	1023.51
119	-486.800	62.320	-6.782	1023.50
118	-487.620	62.290	-6.782	1023.49
117	-488.440	62.270	-6.812	1023.48
116	-489.260	62.240	-6.852	1023.47
115	-490.080	62.210	-6.922	1023.46
114	-490.900	62.190	-6.932	1023.45
113	-491.730	62.160	-6.732	1023.44
112	-492.550	62.140	-6.712	1023.43
111	-493.370	62.110	-6.712	1023.42
110	-494.190	62.080	-6.712	1023.41
109	-495.010	62.060	-6.772	1023.40
108	-495.830	62.030	-6.782	1023.39
107	-496.660	62.010	-6.852	1023.38
106	-497.480	61.980	-6.862	1023.37
105	-498.300	61.950	-6.792	1023.36
104	-499.120	61.930	-6.912	1023.35
103	-499.940	61.900	-7.002	1023.34
102	-500.760	61.880	-6.942	1023.33
101	-501.590	61.850	-6.932	1023.32
100	-502.410	61.820	-6.862	1023.31
99	-503.230	61.800	-6.652	1023.30
98	-504.050	61.770	-6.562	1023.29
97	-504.870	61.750	-6.622	1023.28
96	-505.690	61.720	-6.772	1023.27
95	-506.510	61.690	-6.922	1023.26
94	-507.340	61.670	-6.932	1023.25
93	-508.160	61.640	-7.002	1023.24
92	-508.980	61.620	-7.012	1023.23
91	-509.800	61.590	-6.942	1023.22
90	-510.620	61.560	-6.932	1023.21
89	-511.440	61.540	-6.932	1023.20
88	-512.270	61.510	-6.862	1023.19
87	-513.090	61.490	-6.862	1023.18

218	-408.110	60.710	-4.982	1024.49
217	-408.900	60.730	-4.982	1024.48
216	-409.690	60.740	-5.012	1024.47
215	-410.490	60.750	-5.052	1024.46
214	-411.280	60.760	-5.062	1024.45
213	-412.080	60.780	-5.062	1024.44
212	-412.870	60.790	-5.062	1024.43
211	-413.660	60.800	-5.062	1024.42
210	-414.460	60.810	-5.092	1024.41
209	-415.250	60.830	-5.122	1024.40
208	-416.050	60.840	-5.132	1024.39
207	-416.840	60.850	-5.132	1024.38
206	-417.630	60.870	-5.132	1024.37
205	-418.430	60.880	-5.192	1024.36
204	-419.220	60.890	-5.212	1024.35
203	-420.010	60.900	-5.272	1024.34
202	-420.810	60.920	-5.222	1024.33
201	-421.600	60.930	-5.272	1024.32
200	-422.400	60.940	-5.282	1024.31
199	-423.190	60.950	-5.342	1024.30
198	-423.980	60.970	-5.362	1024.29
197	-424.780	60.980	-5.362	1024.28
196	-425.570	60.990	-5.362	1024.27
195	-426.370	61.010	-5.422	1024.26
194	-427.160	61.020	-5.492	1024.25
193	-427.950	61.030	-5.512	1024.24
192	-428.750	61.040	-5.512	1024.23
191	-429.540	61.060	-5.572	1024.22
190	-430.340	61.070	-5.582	1024.21
189	-431.130	61.080	-5.582	1024.20
188	-431.920	61.090	-5.582	1024.19
187	-432.720	61.110	-5.642	1024.18
186	-433.510	61.120	-5.662	1024.17
185	-434.310	61.130	-5.722	1024.16
184	-435.100	61.150	-5.732	1024.15
183	-435.890	61.160	-5.792	1024.14
182	-436.690	61.170	-5.812	1024.13
181	-437.480	61.180	-5.872	1024.12
180	-438.270	61.200	-5.882	1024.11
179	-439.070	61.210	-5.912	1024.10
178	-439.860	61.220	-5.952	1024.09
177	-440.660	61.230	-6.022	1024.08
176	-441.450	61.250	-6.032	1024.07
175	-442.240	61.260	-6.092	1024.06
174	-443.040	61.270	-6.172	1024.05
173	-443.830	61.290	-6.182	1024.04
172	-444.630	61.300	-6.242	1024.03
171	-445.420	61.310	-6.382	1024.02
170	-446.210	61.320	-6.412	1024.01
169	-447.010	61.340	-6.532	1024.00
168	-447.800	61.360	-6.562	1023.99
167	-448.600	61.380	-6.622	1023.98
166	-449.400	61.390	-6.692	1023.97
165	-450.190	61.410	-6.712	1023.96
164	-450.990	61.430	-6.712	1023.95
163	-451.780	61.450	-6.712	1023.94
162	-452.580	61.470	-6.712	1023.93
161	-453.370	61.490	-6.642	1023.92
160	-454.170	61.510	-6.632	1023.91
159	-454.970	61.530	-6.572	1023.90
158	-455.760	61.550	-6.562	1023.89
157	-456.560	61.570	-6.562	1023.88
156	-457.350	61.590	-6.622	1023.87
155	-458.150	61.610	-6.692	1023.86
154	-458.940	61.630	-6.642	1023.85
153	-459.740	61.650	-6.692	1023.84

86	-513.910	61.460	-6.922	1023.17
85	-514.730	61.430	-7.072	1023.16
84	-515.550	61.410	-6.942	1023.15
83	-516.370	61.380	-6.792	1023.14
82	-517.190	61.360	-6.712	1023.13
81	-518.020	61.330	-6.642	1023.12
80	-518.840	61.300	-6.702	1023.11
79	-519.660	61.280	-6.712	1023.10
78	-520.480	61.250	-6.912	1023.09
77	-521.300	61.230	-7.002	1023.08
76	-522.120	61.200	-7.012	1023.07
75	-522.950	61.170	-7.012	1023.06
74	-523.770	61.150	-6.942	1023.05
73	-524.590	61.120	-6.932	1023.04
72	-525.410	61.100	-6.932	1023.03
71	-526.230	61.070	-6.722	1023.02
70	-527.050	61.040	-6.572	1023.01
69	-527.880	61.020	-6.562	1023.00
68	-528.690	61.000	-6.562	1022.99
67	-529.510	60.990	-6.632	1022.98
66	-530.330	60.970	-6.842	1022.97
65	-531.150	60.960	-7.002	1022.96
64	-531.970	60.940	-7.082	1022.95
63	-532.780	60.930	-7.082	1022.94
62	-533.600	60.910	-7.012	1022.93
61	-534.420	60.900	-6.942	1022.92
60	-535.240	60.880	-6.862	1022.91
59	-536.060	60.870	-6.782	1022.90
58	-536.880	60.850	-6.852	1022.89
57	-537.690	60.840	-6.932	1022.88
56	-538.510	60.820	-7.002	1022.87
55	-539.330	60.810	-7.082	1022.86
54	-540.150	60.790	-7.082	1022.85
53	-540.970	60.780	-7.082	1022.84
52	-541.790	60.760	-7.082	1022.83
51	-542.600	60.750	-7.012	1022.82
50	-543.420	60.730	-7.012	1022.81
49	-544.240	60.710	-6.932	1022.80
48	-545.060	60.700	-6.932	1022.79
47	-545.880	60.680	-6.932	1022.78
46	-546.700	60.670	-6.932	1022.77
45	-547.510	60.650	-7.002	1022.76
44	-548.330	60.640	-7.082	1022.75
43	-549.150	60.620	-7.082	1022.74
42	-549.970	60.610	-7.012	1022.73
41	-550.790	60.590	-6.932	1022.72
40	-551.610	60.580	-6.862	1022.71
39	-552.420	60.560	-6.932	1022.70
38	-553.240	60.550	-6.932	1022.69
37	-554.060	60.530	-6.862	1022.68
36	-554.880	60.520	-6.782	1022.67
35	-555.700	60.500	-6.782	1022.66
34	-556.510	60.490	-6.782	1022.65
33	-557.330	60.470	-6.782	1022.64
32	-558.150	60.460	-6.852	1022.63
31	-558.970	60.440	-6.932	1022.62
30	-559.790	60.430	-7.002	1022.61
29	-560.610	60.410	-7.012	1022.60
28	-561.420	60.400	-7.012	1022.59
27	-562.240	60.380	-7.012	1022.58
26	-563.060	60.370	-6.932	1022.57
25	-563.880	60.350	-6.712	1022.56
24	-564.700	60.340	-6.712	1022.55
23	-565.520	60.320	-6.632	1022.54
22	-566.330	60.310	-6.632	1022.53
21	-567.150	60.290	-6.782	1022.52

20	-567.970	60.280	-6.932	1022.51
19	-568.790	60.260	-7.002	1022.50
18	-569.600	60.250	-7.082	1022.49
17	-570.420	60.230	-7.082	1022.48
16	-571.230	60.220	-7.082	1022.47
15	-572.050	60.200	-7.012	1022.46
14	-572.860	60.190	-6.932	1022.45
13	-573.670	60.170	-7.002	1022.44
12	-574.490	60.160	-7.012	1022.43
11	-575.300	60.150	-7.012	1022.42
10	-576.120	60.130	-6.932	1022.41
9	-576.930	60.120	-6.862	1022.40
8	-577.750	60.100	-7.002	1022.39
7	-578.560	60.090	-7.012	1022.38
6	-579.370	60.070	-7.012	1022.37
5	-580.190	60.060	-6.932	1022.36
4	-581.000	60.040	-7.012	1022.35
3	-581.820	60.030	-7.012	1022.34
2	-582.630	60.020	-7.012	1022.33
1	-583.450	60.000	-6.932	1022.32

SOUTH LINE 5 (MERGED ON- & OFFSHORE PROFILES)
 22 April 1990 1345 to 1401 (CDT) (ONSHORE)
 22 April 1990 1012 to 1019 (CDT) (OFFSHORE)
 Average offset = -0.337484m

PT. #	X (m)	Y (m)	Z (m)	TIME	COMMENTS
293	35.328	75.327	2.752		
292	26.374	74.461	2.166		
291	18.080	74.391	2.127		
290	9.590	74.490	2.137		
289	0.550	74.863	2.737		
288	-3.769	74.849	3.074		
287	-9.627	75.111	3.093		
286	-12.384	75.079	2.816		
285	-20.623	75.082	1.972		
284	-28.786	75.352	1.485		
283	-37.697	75.074	1.078		
282	-46.860	74.881	0.679		
281	-49.811	75.052	0.373		waterline
280	-52.040	74.901	-0.025		
279	-56.474	74.911	-0.228		
278	-61.339	74.914	-0.132		
277	-67.385	74.780	-0.056		
276	-73.010	74.808	-0.071		
275	-78.311	74.872	-0.136		
274	-84.411	74.775	-0.193		
273	-91.030	74.838	-0.269		
272	-98.172	75.032	-0.364		
271	-104.901	75.085	-0.453		
270	-111.617	75.106	-0.635		
617	-112.850	73.690	-0.664		1017.97
616	-113.630	73.690	-0.714		1017.96
615	-114.420	73.700	-0.744		1017.95
614	-115.200	73.710	-0.814		1017.94
613	-115.990	73.710	-0.864		1017.93
612	-116.770	73.720	-0.894		1017.92
611	-117.560	73.730	-0.934		1017.91
610	-118.340	73.730	-0.964		1017.90
609	-119.130	73.740	-1.024		1017.89
608	-119.910	73.740	-1.064		1017.88
607	-120.700	73.750	-1.114		1017.87
606	-121.480	73.760	-1.164		1017.86
605	-122.270	73.760	-1.194		1017.85
604	-123.050	73.770	-1.264		1017.84
603	-123.840	73.780	-1.314		1017.83
602	-124.630	73.780	-1.324		1017.82

535	-177.990	72.130	-2.064	1017.15
534	-178.800	72.130	-2.064	1017.14
533	-179.600	72.130	-2.044	1017.13
532	-180.410	72.140	-2.004	1017.12
531	-181.210	72.140	-1.944	1017.11
530	-182.020	72.140	-1.914	1017.10
529	-182.820	72.140	-1.914	1017.09
528	-183.630	72.150	-1.874	1017.08
527	-184.430	72.150	-1.834	1017.07
526	-185.240	72.150	-1.834	1017.06
525	-186.040	72.150	-1.834	1017.05
524	-186.850	72.160	-1.814	1017.04
523	-187.650	72.160	-1.774	1017.03
522	-188.460	72.160	-1.764	1017.02
521	-189.260	72.160	-1.764	1017.01
520	-190.070	72.170	-1.724	1017.00
519	-190.870	72.200	-1.684	1016.99
518	-191.660	72.230	-1.664	1016.98
517	-192.460	72.260	-1.624	1016.97
516	-193.260	72.290	-1.614	1016.96
515	-194.060	72.320	-1.614	1016.95
514	-194.850	72.360	-1.574	1016.94
513	-195.650	72.390	-1.534	1016.93
512	-196.450	72.420	-1.534	1016.92
511	-197.250	72.450	-1.534	1016.91
510	-198.040	72.480	-1.534	1016.90
509	-198.840	72.520	-1.534	1016.89
508	-199.640	72.550	-1.514	1016.88
507	-200.430	72.610	-1.474	1016.86
506	-201.230	72.640	-1.464	1016.85
505	-202.030	72.670	-1.464	1016.84
504	-202.830	72.710	-1.464	1016.83
503	-203.630	72.740	-1.464	1016.82
502	-204.420	72.770	-1.464	1016.81
501	-205.220	72.800	-1.464	1016.80
500	-206.020	72.830	-1.464	1016.79
499	-206.820	72.860	-1.464	1016.78
498	-207.610	72.900	-1.464	1016.77
497	-208.410	72.930	-1.464	1016.76
496	-209.210	72.960	-1.464	1016.75
495	-210.010	72.990	-1.494	1016.74
494	-210.800	73.020	-1.534	1016.73
493	-211.600	73.050	-1.534	1016.72
492	-212.400	73.090	-1.534	1016.71
491	-213.190	73.120	-1.574	1016.70
490	-214.000	73.150	-1.614	1016.69
489	-214.790	73.180	-1.644	1016.68
488	-215.590	73.210	-1.684	1016.67
487	-216.380	73.250	-1.684	1016.66
486	-217.180	73.280	-1.724	1016.65
485	-217.980	73.310	-1.764	1016.64
484	-218.780	73.340	-1.764	1016.63
483	-219.570	73.370	-1.764	1016.62
482	-220.370	73.400	-1.784	1016.61
481	-221.170	73.440	-1.814	1016.60
480	-221.970	73.470	-1.834	1016.59
479	-222.760	73.500	-1.834	1016.58
478	-223.560	73.530	-1.874	1016.57
477	-224.360	73.560	-1.914	1016.56
476	-225.160	73.590	-1.924	1016.55
475	-225.950	73.630	-1.934	1016.54
474	-226.750	73.660	-1.954	1016.53
473	-227.550	73.690	-1.974	1016.52
472	-228.350	73.720	-1.984	1016.51
471	-229.140	73.750	-1.984	1016.50
470	-229.940	73.770	-1.984	1016.49

601	-125.410	73.790	-1.364	1017.81
600	-126.200	73.800	-1.414	1017.80
599	-126.980	73.800	-1.464	1017.79
598	-127.770	73.810	-1.494	1017.78
597	-128.550	73.810	-1.534	1017.77
596	-129.340	73.820	-1.564	1017.76
595	-130.120	73.830	-1.644	1017.75
594	-130.910	73.800	-1.684	1017.74
593	-131.710	73.780	-1.684	1017.73
592	-132.500	73.760	-1.714	1017.72
591	-133.290	73.740	-1.794	1017.71
590	-134.080	73.720	-1.834	1017.70
589	-134.880	73.690	-1.834	1017.69
588	-135.670	73.670	-1.864	1017.68
587	-136.460	73.650	-1.914	1017.67
586	-137.250	73.630	-1.974	1017.66
585	-138.050	73.600	-2.064	1017.65
584	-138.840	73.580	-2.094	1017.64
583	-139.630	73.560	-2.164	1017.63
582	-140.430	73.540	-2.244	1017.62
581	-141.220	73.510	-2.314	1017.61
580	-142.010	73.490	-2.394	1017.60
579	-142.800	73.470	-2.504	1017.59
578	-143.600	73.450	-2.584	1017.58
577	-144.390	73.420	-2.614	1017.57
576	-145.180	73.400	-2.664	1017.56
575	-145.970	73.380	-2.664	1017.55
574	-146.770	73.360	-2.664	1017.54
573	-147.560	73.340	-2.664	1017.53
572	-148.350	73.310	-2.664	1017.52
571	-149.140	73.290	-2.664	1017.51
570	-149.940	73.270	-2.664	1017.50
569	-150.740	73.220	-2.664	1017.49
568	-151.540	73.170	-2.664	1017.48
567	-152.340	73.130	-2.664	1017.47
566	-153.140	73.080	-2.664	1017.46
565	-153.940	73.030	-2.664	1017.45
564	-154.740	72.990	-2.664	1017.44
563	-155.540	72.940	-2.664	1017.43
562	-156.340	72.890	-2.664	1017.42
561	-157.140	72.850	-2.644	1017.41
560	-157.940	72.800	-2.604	1017.40
559	-158.740	72.750	-2.584	1017.39
558	-159.540	72.710	-2.584	1017.38
557	-160.340	72.660	-2.584	1017.37
556	-161.140	72.620	-2.584	1017.36
555	-161.940	72.570	-2.584	1017.35
554	-162.740	72.520	-2.584	1017.34
553	-163.540	72.480	-2.584	1017.33
552	-164.340	72.430	-2.554	1017.32
551	-165.140	72.380	-2.474	1017.31
550	-165.940	72.340	-2.434	1017.30
549	-166.740	72.290	-2.434	1017.29
548	-167.540	72.240	-2.404	1017.28
547	-168.340	72.200	-2.364	1017.27
546	-169.140	72.150	-2.344	1017.26
545	-169.940	72.100	-2.304	1017.25
544	-170.740	72.100	-2.284	1017.24
543	-171.550	72.110	-2.254	1017.23
542	-172.350	72.110	-2.214	1017.22
541	-173.160	72.110	-2.194	1017.21
540	-173.960	72.110	-2.174	1017.20
539	-174.770	72.120	-2.144	1017.19
538	-175.570	72.120	-2.134	1017.18
537	-176.380	72.120	-2.104	1017.17
536	-177.180	72.130	-2.064	1017.16

403	-284.380	74.150	-3.034	1015.82
402	-285.180	74.130	-3.034	1015.81
401	-285.990	74.120	-3.054	1015.80
400	-286.790	74.100	-3.094	1015.79
399	-287.600	74.090	-3.114	1015.78
398	-288.400	74.070	-3.114	1015.77
397	-289.210	74.050	-3.114	1015.76
396	-290.010	74.040	-3.134	1015.75
395	-290.820	74.020	-3.174	1015.74
394	-291.620	74.000	-3.184	1015.73
393	-292.430	73.990	-3.184	1015.72
392	-293.230	73.970	-3.184	1015.71
391	-294.040	73.960	-3.184	1015.70
390	-294.840	73.940	-3.184	1015.69
389	-295.650	73.920	-3.234	1015.68
388	-296.450	73.910	-3.264	1015.67
387	-297.260	73.890	-3.264	1015.66
386	-298.070	73.880	-3.264	1015.65
385	-298.870	73.860	-3.264	1015.64
384	-299.680	73.840	-3.264	1015.63
383	-300.480	73.830	-3.264	1015.62
382	-301.290	73.810	-3.264	1015.61
381	-302.090	73.800	-3.304	1015.60
380	-302.900	73.780	-3.334	1015.59
379	-303.700	73.760	-3.334	1015.58
378	-304.510	73.750	-3.334	1015.57
377	-305.310	73.730	-3.334	1015.56
376	-306.120	73.720	-3.334	1015.55
375	-306.920	73.700	-3.334	1015.54
374	-307.730	73.680	-3.334	1015.53
373	-308.530	73.670	-3.334	1015.52
372	-309.340	73.650	-3.334	1015.51
371	-310.140	73.640	-3.334	1015.50
370	-310.960	73.580	-3.384	1015.49
369	-311.790	73.530	-3.414	1015.48
368	-312.610	73.470	-3.454	1015.47
367	-313.430	73.420	-3.484	1015.46
366	-314.250	73.370	-3.434	1015.45
365	-315.070	73.310	-3.454	1015.44
364	-315.900	73.260	-3.484	1015.43
363	-316.720	73.210	-3.484	1015.42
362	-317.540	73.150	-3.484	1015.41
361	-318.360	73.100	-3.484	1015.40
360	-319.180	73.050	-3.484	1015.39
359	-320.010	72.990	-3.484	1015.38
358	-320.830	72.940	-3.484	1015.37
357	-321.650	72.890	-3.534	1015.36
356	-322.470	72.830	-3.564	1015.35
355	-323.290	72.780	-3.564	1015.34
354	-324.110	72.720	-3.564	1015.33
353	-324.940	72.670	-3.564	1015.32
352	-325.760	72.620	-3.564	1015.31
351	-326.580	72.560	-3.564	1015.30
350	-327.400	72.510	-3.564	1015.29
349	-328.220	72.460	-3.604	1015.28
348	-329.050	72.400	-3.634	1015.27
347	-329.870	72.350	-3.634	1015.26
346	-330.690	72.300	-3.634	1015.25
345	-331.510	72.240	-3.634	1015.24
344	-332.330	72.190	-3.634	1015.23
343	-333.150	72.140	-3.634	1015.22
342	-333.980	72.080	-3.634	1015.21
341	-334.800	72.030	-3.684	1015.20
340	-335.620	71.980	-3.714	1015.19
339	-336.440	71.920	-3.714	1015.18
338	-337.260	71.870	-3.714	1015.17

469	-231.540	73.780	-2.024	1016.48
468	-232.340	73.790	-2.064	1016.47
467	-233.140	73.810	-2.064	1016.46
466	-233.930	73.820	-2.064	1016.45
465	-234.730	73.840	-2.104	1016.44
464	-235.530	73.850	-2.134	1016.43
463	-236.330	73.860	-2.134	1016.42
462	-237.130	73.880	-2.174	1016.41
461	-237.930	73.890	-2.214	1016.40
460	-238.730	73.900	-2.214	1016.39
459	-239.530	73.920	-2.214	1016.38
458	-240.330	73.930	-2.214	1016.37
457	-241.120	73.950	-2.234	1016.36
456	-241.920	73.960	-2.264	1016.35
455	-242.720	73.970	-2.284	1016.34
454	-243.520	73.990	-2.324	1016.33
453	-244.320	74.000	-2.334	1016.32
452	-245.120	74.010	-2.304	1016.31
451	-245.920	74.030	-2.324	1016.30
450	-246.720	74.040	-2.364	1016.29
449	-247.520	74.050	-2.364	1016.28
448	-248.310	74.070	-2.404	1016.27
447	-249.110	74.080	-2.434	1016.26
446	-249.910	74.100	-2.434	1016.25
445	-250.710	74.110	-2.434	1016.24
444	-251.510	74.120	-2.434	1016.23
443	-252.310	74.140	-2.474	1016.22
442	-253.110	74.150	-2.534	1016.21
441	-253.910	74.160	-2.564	1016.20
440	-254.710	74.180	-2.584	1016.19
439	-255.500	74.190	-2.584	1016.18
438	-256.300	74.210	-2.584	1016.17
437	-257.100	74.220	-2.584	1016.16
436	-257.900	74.230	-2.624	1016.15
435	-258.700	74.250	-2.664	1016.14
434	-259.500	74.260	-2.664	1016.13
433	-260.300	74.270	-2.664	1016.12
432	-261.100	74.290	-2.664	1016.11
431	-261.900	74.300	-2.664	1016.10
430	-262.690	74.320	-2.704	1016.09
429	-263.490	74.330	-2.734	1016.08
428	-264.290	74.340	-2.734	1016.07
427	-265.090	74.360	-2.734	1016.06
426	-265.890	74.370	-2.734	1016.05
425	-266.690	74.380	-2.734	1016.04
424	-267.490	74.400	-2.734	1016.03
423	-268.290	74.410	-2.734	1016.02
422	-269.090	74.430	-2.754	1016.01
421	-269.890	74.440	-2.794	1016.00
420	-270.690	74.420	-2.814	1015.99
419	-271.490	74.410	-2.834	1015.98
418	-272.300	74.390	-2.864	1015.97
417	-273.100	74.370	-2.884	1015.96
416	-273.910	74.360	-2.884	1015.95
415	-274.720	74.340	-2.884	1015.94
414	-275.520	74.330	-2.884	1015.93
413	-276.330	74.310	-2.894	1015.92
412	-277.130	74.290	-2.914	1015.91
411	-277.940	74.280	-2.934	1015.90
410	-278.740	74.260	-2.954	1015.89
409	-279.550	74.250	-2.964	1015.88
408	-280.350	74.230	-2.964	1015.87
407	-281.160	74.210	-2.964	1015.86
406	-281.960	74.200	-3.004	1015.85
405	-282.770	74.180	-3.034	1015.84
404	-283.570	74.170	-3.034	1015.83

271	-391.660	71.050	-4.534	1014.50
270	-392.470	71.100	-4.534	1014.49
269	-393.280	71.150	-4.534	1014.48
268	-394.090	71.200	-4.594	1014.47
267	-394.910	71.250	-4.614	1014.46
266	-395.720	71.290	-4.614	1014.45
265	-396.530	71.340	-4.614	1014.44
264	-397.340	71.390	-4.614	1014.43
263	-398.150	71.440	-4.614	1014.42
262	-398.970	71.490	-4.614	1014.41
261	-399.780	71.530	-4.634	1014.40
260	-400.590	71.580	-4.674	1014.39
259	-401.400	71.630	-4.684	1014.38
258	-402.210	71.680	-4.684	1014.37
257	-403.020	71.730	-4.684	1014.36
256	-403.840	71.770	-4.684	1014.35
255	-404.650	71.820	-4.744	1014.34
254	-405.460	71.870	-4.764	1014.33
253	-406.270	71.920	-4.764	1014.32
252	-407.080	71.970	-4.764	1014.31
251	-407.900	72.010	-4.764	1014.30
250	-408.710	72.060	-4.764	1014.29
249	-409.520	72.110	-4.784	1014.28
248	-410.330	72.160	-4.824	1014.27
247	-411.140	72.210	-4.834	1014.26
246	-411.950	72.250	-4.834	1014.25
245	-412.770	72.300	-4.894	1014.24
244	-413.580	72.350	-4.914	1014.23
243	-414.390	72.400	-4.914	1014.22
242	-415.200	72.450	-4.914	1014.21
241	-416.010	72.490	-4.964	1014.20
240	-416.830	72.540	-4.984	1014.19
239	-417.640	72.590	-4.984	1014.18
238	-418.450	72.640	-5.014	1014.17
237	-419.260	72.690	-5.054	1014.16
236	-420.070	72.730	-5.064	1014.15
235	-420.880	72.780	-5.064	1014.14
234	-421.700	72.830	-5.064	1014.13
233	-422.510	72.880	-5.114	1014.12
232	-423.320	72.930	-5.134	1014.11
231	-424.130	72.970	-5.134	1014.10
230	-424.940	73.020	-5.134	1014.09
229	-425.760	73.070	-5.194	1014.08
228	-426.570	73.120	-5.214	1014.07
227	-427.380	73.170	-5.234	1014.06
226	-428.190	73.210	-5.274	1014.05
225	-429.000	73.260	-5.284	1014.04
224	-429.810	73.310	-5.284	1014.03
223	-430.630	73.360	-5.284	1014.02
222	-431.440	73.410	-5.284	1014.01
221	-432.250	73.450	-5.344	1014.00
220	-433.080	73.440	-5.364	1013.99
219	-433.910	73.430	-5.364	1013.98
218	-434.730	73.420	-5.384	1013.97
217	-435.560	73.410	-5.424	1013.96
216	-436.390	73.400	-5.434	1013.95
215	-437.220	73.390	-5.494	1013.94
214	-438.040	73.380	-5.514	1013.93
213	-438.870	73.370	-5.564	1013.92
212	-439.700	73.360	-5.584	1013.91
211	-440.530	73.350	-5.644	1013.90
210	-441.350	73.340	-5.664	1013.89
209	-442.180	73.330	-5.664	1013.88
208	-443.010	73.320	-5.714	1013.87
207	-443.840	73.310	-5.734	1013.86
206	-444.660	73.300	-5.794	1013.85

337	-338.090	71.810	-3.714	1015.16
336	-338.910	71.760	-3.714	1015.15
335	-339.730	71.710	-3.714	1015.14
334	-340.550	71.650	-3.734	1015.13
333	-341.370	71.600	-3.774	1015.12
332	-342.190	71.550	-3.784	1015.11
331	-343.020	71.490	-3.784	1015.10
330	-343.840	71.440	-3.784	1015.09
329	-344.660	71.390	-3.784	1015.08
328	-345.480	71.330	-3.794	1015.07
327	-346.300	71.280	-3.814	1015.06
326	-347.130	71.230	-3.824	1015.05
325	-347.950	71.170	-3.844	1015.04
324	-348.770	71.120	-3.854	1015.03
323	-349.590	71.070	-3.864	1015.02
322	-350.410	71.010	-3.864	1015.01
321	-351.240	70.960	-3.914	1015.00
320	-352.060	70.960	-3.934	1014.99
319	-352.850	70.960	-3.934	1014.98
318	-353.660	70.960	-3.934	1014.97
317	-354.470	70.970	-3.984	1014.96
316	-355.280	70.970	-4.014	1014.95
315	-356.090	70.970	-4.014	1014.94
314	-356.890	70.970	-4.014	1014.93
313	-357.700	70.970	-4.014	1014.92
312	-358.510	70.980	-4.064	1014.91
311	-359.320	70.980	-4.084	1014.90
310	-360.130	70.980	-4.084	1014.89
309	-360.940	70.980	-4.084	1014.88
308	-361.750	70.980	-4.084	1014.87
307	-362.550	70.980	-4.084	1014.86
306	-363.360	70.990	-4.114	1014.85
305	-364.170	70.990	-4.144	1014.84
304	-364.980	70.990	-4.164	1014.83
303	-365.790	70.990	-4.164	1014.82
302	-366.600	70.990	-4.164	1014.81
301	-367.400	71.000	-4.214	1014.80
300	-368.210	71.000	-4.234	1014.79
299	-369.020	71.000	-4.234	1014.78
298	-369.830	71.000	-4.234	1014.77
297	-370.640	71.000	-4.234	1014.76
296	-371.450	71.010	-4.234	1014.75
295	-372.260	71.010	-4.264	1014.74
294	-373.060	71.010	-4.294	1014.73
293	-373.870	71.010	-4.254	1014.72
292	-374.680	71.010	-4.284	1014.71
291	-375.490	71.020	-4.314	1014.70
290	-376.300	71.020	-4.314	1014.69
289	-377.110	71.020	-4.314	1014.68
288	-377.910	71.020	-4.314	1014.67
287	-378.720	71.030	-4.314	1014.66
286	-379.530	71.030	-4.334	1014.65
285	-380.340	71.030	-4.374	1014.64
284	-381.150	71.030	-4.384	1014.63
283	-381.960	71.030	-4.384	1014.62
282	-382.770	71.030	-4.414	1014.61
281	-383.570	71.030	-4.444	1014.60
280	-384.380	71.040	-4.464	1014.59
279	-385.190	71.040	-4.464	1014.58
278	-386.000	71.040	-4.464	1014.57
277	-386.810	71.040	-4.464	1014.56
276	-387.620	71.040	-4.464	1014.55
275	-388.430	71.050	-4.464	1014.54
274	-389.230	71.050	-4.514	1014.53
273	-390.040	71.050	-4.534	1014.52
272	-390.850	71.050	-4.534	1014.51

205	-445.490	73.290	-5.814	1013.84	139	-501.390	73.970	-6.714	1013.18
204	-446.320	73.290	-5.874	1013.83	138	-502.260	74.010	-6.714	1013.17
203	-447.150	73.280	-5.884	1013.82	137	-503.120	74.040	-6.644	1013.16
202	-447.970	73.270	-5.914	1013.81	136	-503.990	74.070	-6.634	1013.15
201	-448.800	73.260	-5.954	1013.80	135	-504.860	74.100	-6.704	1013.14
200	-449.630	73.250	-6.024	1013.79	134	-505.730	74.130	-6.714	1013.13
199	-450.460	73.240	-6.094	1013.78	133	-506.590	74.170	-6.644	1013.12
198	-451.280	73.230	-6.174	1013.77	132	-507.460	74.200	-6.764	1013.11
197	-452.110	73.220	-6.244	1013.76	131	-508.330	74.230	-6.784	1013.10
196	-452.940	73.210	-6.324	1013.75	130	-509.200	74.260	-6.854	1013.09
195	-453.770	73.200	-6.394	1013.74	129	-510.060	74.290	-6.724	1013.08
194	-454.590	73.190	-6.474	1013.73	128	-510.930	74.320	-6.774	1013.07
193	-455.420	73.180	-6.544	1013.72	127	-511.800	74.360	-6.854	1013.06
192	-456.250	73.170	-6.564	1013.71	126	-512.670	74.390	-6.924	1013.05
191	-457.080	73.160	-6.494	1013.70	125	-513.530	74.420	-7.004	1013.04
190	-457.900	73.150	-6.484	1013.69	124	-514.400	74.450	-6.944	1013.03
189	-458.730	73.140	-6.484	1013.68	123	-515.270	74.480	-6.864	1013.02
188	-459.560	73.130	-6.484	1013.67	122	-516.140	74.520	-6.724	1013.01
187	-460.390	73.120	-6.604	1013.66	121	-517.000	74.550	-6.574	1013.00
186	-461.210	73.110	-6.634	1013.65	120	-517.840	74.590	-6.494	1012.99
185	-462.040	73.100	-6.694	1013.64	119	-518.680	74.630	-6.484	1012.98
184	-462.870	73.090	-6.714	1013.63	118	-519.520	74.670	-6.554	1012.97
183	-463.700	73.080	-6.714	1013.62	117	-520.360	74.710	-6.754	1012.96
182	-464.520	73.070	-6.714	1013.61	116	-521.200	74.760	-6.854	1012.95
181	-465.350	73.060	-6.714	1013.60	115	-522.040	74.800	-6.864	1012.94
180	-466.180	73.050	-6.714	1013.59	114	-522.880	74.840	-6.864	1012.93
179	-467.010	73.040	-6.714	1013.58	113	-523.720	74.880	-6.864	1012.92
178	-467.840	73.030	-6.714	1013.57	112	-524.560	74.920	-6.864	1012.91
177	-468.660	73.020	-6.774	1013.56	111	-525.400	74.970	-6.724	1012.90
176	-469.490	73.010	-6.784	1013.55	110	-526.240	75.010	-6.644	1012.89
175	-470.320	73.000	-6.784	1013.54	109	-527.080	75.050	-6.564	1012.88
174	-471.150	72.990	-6.724	1013.53	108	-527.920	75.090	-6.564	1012.87
173	-471.970	72.980	-6.714	1013.52	107	-528.760	75.130	-6.624	1012.86
172	-472.800	72.970	-6.584	1013.51	106	-529.600	75.180	-6.704	1012.85
171	-473.630	72.960	-6.564	1013.50	105	-530.440	75.220	-6.714	1012.84
170	-474.500	72.950	-6.624	1013.49	104	-531.280	75.260	-6.644	1012.83
169	-475.360	73.020	-6.694	1013.48	103	-532.120	75.300	-6.634	1012.82
168	-476.230	73.050	-6.714	1013.47	102	-532.960	75.340	-6.704	1012.81
167	-477.100	73.080	-6.714	1013.46	101	-533.800	75.380	-6.714	1012.80
166	-477.970	73.120	-6.714	1013.45	100	-534.640	75.430	-6.504	1012.79
165	-478.830	73.150	-6.714	1013.44	99	-535.480	75.470	-6.484	1012.78
164	-479.700	73.180	-6.714	1013.43	98	-536.320	75.510	-6.554	1012.77
163	-480.570	73.210	-6.644	1013.42	97	-537.160	75.550	-6.764	1012.76
162	-481.440	73.240	-6.634	1013.41	96	-538.000	75.590	-6.854	1012.75
161	-482.300	73.280	-6.634	1013.40	95	-538.840	75.640	-6.864	1012.74
160	-483.170	73.310	-6.634	1013.39	94	-539.680	75.680	-6.864	1012.73
159	-484.040	73.340	-6.634	1013.38	93	-540.520	75.720	-6.794	1012.72
158	-484.910	73.370	-6.694	1013.37	92	-541.360	75.760	-6.644	1012.71
157	-485.770	73.400	-6.714	1013.36	91	-542.200	75.800	-6.634	1012.70
156	-486.640	73.430	-6.774	1013.35	90	-543.040	75.850	-6.704	1012.69
155	-487.510	73.470	-6.844	1013.34	89	-543.880	75.890	-6.844	1012.68
154	-488.380	73.500	-6.864	1013.33	88	-544.720	75.930	-6.794	1012.67
153	-489.240	73.530	-6.864	1013.32	87	-545.560	75.970	-6.714	1012.66
152	-490.110	73.560	-6.734	1013.31	86	-546.400	76.010	-6.714	1012.65
151	-490.980	73.590	-6.644	1013.30	85	-547.240	76.050	-6.914	1012.64
150	-491.850	73.620	-6.634	1013.29	84	-548.080	76.100	-6.934	1012.63
149	-492.710	73.660	-6.574	1013.28	83	-548.920	76.140	-6.864	1012.62
148	-493.580	73.690	-6.684	1013.27	82	-549.760	76.180	-6.724	1012.61
147	-494.450	73.720	-6.834	1013.26	81	-550.600	76.220	-6.574	1012.60
146	-495.320	73.750	-6.864	1013.25	80	-551.430	76.260	-6.494	1012.59
145	-496.180	73.780	-6.924	1013.24	79	-552.270	76.310	-6.554	1012.58
144	-497.050	73.820	-6.934	1013.23	78	-553.110	76.350	-6.694	1012.57
143	-497.920	73.850	-6.804	1013.22	77	-553.950	76.390	-6.644	1012.56
142	-498.790	73.880	-6.724	1013.21	76	-554.790	76.430	-6.604	1012.55
141	-499.650	73.910	-6.644	1013.20	75	-555.630	76.470	-6.564	1012.54
140	-500.520	73.940	-6.694	1013.19	74	-556.470	76.520	-6.694	1012.53

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7	-616.000	80.030	-7.014	1011.86		
6	-616.890	80.080	-6.934	1011.85		
5	-617.780	80.140	-6.934	1011.84		
4	-618.670	80.190	-7.084	1011.83		
3	-619.560	80.240	-7.084	1011.82		
2	-620.450	80.300	-7.014	1011.81		
1	-621.340	80.350	-6.934	1011.80		
SOUTH LINE 6 (MERGED ON- & OFFSHORE PROFILES)						
22 April 1990 1317 to 1340 (CDT) (ONSHORE)						
22 April 1990 957 to 1007 (CDT) (OFFSHORE)						
Average offset = -0.389643m						
PT. #	X (m)	Y (m)	Z (m)	TIME	COMMENTS	
222	36.052	90.992	2.683			
223	32.694	90.721	2.298			
224	24.320	90.606	2.047			
225	12.974	90.566	2.034			
226	5.024	90.581	2.283			
227	0.488	90.881	2.594			
228	-4.331	90.852	3.233			
229	-8.067	90.707	3.269			
230	-13.087	91.012	2.770			
231	-19.998	91.108	2.010			
232	-29.104	90.988	1.582			
233	-37.484	90.909	1.312			
234	-45.294	90.743	0.776			
235	-49.200	90.826	0.374			waterline
236	-51.388	90.849	-0.012			
237	-55.733	90.956	-0.251			
238	-60.056	90.981	-0.254			
239	-65.137	91.009	-0.215			
240	-69.743	90.825	-0.231			
241	-75.250	90.907	-0.212			
242	-79.939	91.032	-0.162			
243	-85.510	91.072	-0.171			
244	-90.674	91.006	-0.254			
245	-96.162	91.179	-0.305			
246	-101.408	91.364	-0.388			
247	-107.569	91.233	-0.555			
248	-113.443	90.930	-0.727			
1025	-114.830	89.570	-0.767			1006.72
1024	-115.580	89.560	-0.837			1006.71
1023	-116.330	89.560	-0.917			1006.70
1022	-117.080	89.560	-0.917			1006.69
1021	-117.830	89.550	-0.917			1006.68
1020	-118.580	89.550	-0.987			1006.67
1019	-119.330	89.540	-1.067			1006.66
1018	-120.080	89.540	-1.137			1006.65
1017	-120.830	89.540	-1.137			1006.64
1016	-121.580	89.530	-1.217			1006.63
1015	-122.330	89.530	-1.217			1006.62
1014	-123.080	89.520	-1.287			1006.61
1013	-123.830	89.520	-1.367			1006.60
1012	-124.570	89.520	-1.367			1006.59
1011	-125.320	89.510	-1.367			1006.58
1010	-126.070	89.510	-1.397			1006.57
1009	-126.820	89.500	-1.437			1006.56
1008	-127.570	89.500	-1.517			1006.55
1007	-128.320	89.500	-1.517			1006.54
1006	-129.070	89.490	-1.517			1006.53
1005	-129.820	89.490	-1.517			1006.52
1004	-130.570	89.490	-1.587			1006.51
1003	-131.320	89.480	-1.627			1006.50
1002	-132.070	89.480	-1.667			1006.49
1001	-132.820	89.470	-1.667			1006.48
1000	-133.570	89.470	-1.737			1006.47

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73	-557.310	76.560	-6.644	1012.52		
72	-558.150	76.600	-6.494	1012.51		
71	-558.990	76.640	-6.414	1012.50		
70	-559.880	76.690	-6.414	1012.49		
69	-560.770	76.750	-6.684	1012.48		
68	-561.670	76.800	-6.914	1012.47		
67	-562.560	76.850	-6.864	1012.46		
66	-563.450	76.910	-6.864	1012.45		
65	-564.340	76.960	-6.794	1012.44		
64	-565.230	77.010	-6.714	1012.43		
63	-566.120	77.060	-6.784	1012.42		
62	-567.010	77.120	-6.824	1012.41		
61	-567.900	77.170	-6.854	1012.40		
60	-568.790	77.220	-6.714	1012.39		
59	-569.680	77.280	-6.784	1012.38		
58	-570.570	77.330	-6.644	1012.37		
57	-571.460	77.380	-6.644	1012.36		
56	-572.350	77.440	-6.634	1012.35		
55	-573.240	77.490	-6.634	1012.34		
54	-574.140	77.540	-6.564	1012.33		
53	-575.030	77.590	-6.634	1012.32		
52	-575.920	77.650	-6.634	1012.31		
51	-576.810	77.700	-6.634	1012.30		
50	-577.700	77.750	-6.704	1012.29		
49	-578.590	77.810	-6.714	1012.28		
48	-579.480	77.860	-6.784	1012.27		
47	-580.370	77.910	-6.854	1012.26		
46	-581.260	77.970	-6.864	1012.25		
45	-582.150	78.020	-6.784	1012.24		
44	-583.040	78.070	-6.784	1012.23		
43	-583.930	78.120	-6.784	1012.22		
42	-584.820	78.180	-6.784	1012.21		
41	-585.710	78.230	-6.714	1012.20		
40	-586.610	78.280	-6.564	1012.19		
39	-587.500	78.340	-6.564	1012.18		
38	-588.390	78.390	-6.634	1012.17		
37	-589.280	78.440	-6.704	1012.16		
36	-590.170	78.490	-6.714	1012.15		
35	-591.060	78.550	-6.634	1012.14		
34	-591.950	78.600	-6.744	1012.13		
33	-592.840	78.650	-6.854	1012.12		
32	-593.730	78.710	-6.864	1012.11		
31	-594.620	78.760	-6.934	1012.10		
30	-595.510	78.810	-6.934	1012.09		
29	-596.400	78.870	-7.084	1012.08		
28	-597.290	78.920	-7.084	1012.07		
27	-598.180	78.970	-7.084	1012.06		
26	-599.080	79.020	-7.084	1012.05		
25	-599.970	79.080	-7.084	1012.04		
24	-600.860	79.130	-7.084	1012.03		
23	-601.750	79.180	-7.084	1012.02		
22	-602.640	79.240	-6.864	1012.01		
21	-603.530	79.290	-6.644	1012.00		
20	-604.420	79.340	-6.564	1011.99		
19	-605.310	79.390	-6.704	1011.98		
18	-606.200	79.450	-6.854	1011.97		
17	-607.090	79.500	-7.084	1011.96		
16	-607.980	79.550	-7.154	1011.95		
15	-608.870	79.610	-7.164	1011.94		
14	-609.760	79.660	-6.864	1011.93		
13	-610.650	79.710	-6.714	1011.92		
12	-611.550	79.770	-6.854	1011.91		
11	-612.440	79.820	-6.934	1011.90		
10	-613.330	79.870	-6.934	1011.89		
9	-614.220	79.920	-7.004	1011.88		
8	-615.110	79.980	-7.014	1011.87		

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999	-136.320	89.470	-1.737	1006.46	933	-186.140	89.900	-1.737	1005.80
998	-135.070	89.460	-1.817	1006.45	932	-186.930	89.910	-1.737	1005.79
997	-135.820	89.460	-1.887	1006.44	931	-187.720	89.910	-1.737	1005.78
996	-136.560	89.450	-1.927	1006.43	930	-188.500	89.910	-1.697	1005.77
995	-137.310	89.450	-1.967	1006.42	929	-189.290	89.920	-1.657	1005.76
994	-138.060	89.450	-1.967	1006.41	928	-190.080	89.920	-1.617	1005.75
993	-138.810	89.440	-1.967	1006.40	927	-190.870	89.920	-1.577	1005.74
992	-139.560	89.440	-1.967	1006.39	926	-191.650	89.930	-1.517	1005.73
991	-140.310	89.440	-1.967	1006.38	925	-192.440	89.930	-1.557	1005.72
990	-141.060	89.430	-1.967	1006.37	924	-193.230	89.940	-1.577	1005.71
989	-141.810	89.430	-2.037	1006.36	923	-194.010	89.940	-1.517	1005.70
988	-142.560	89.420	-2.037	1006.35	922	-194.800	89.940	-1.507	1005.69
987	-143.310	89.420	-2.037	1006.34	921	-195.590	89.950	-1.437	1005.68
986	-144.060	89.420	-2.037	1006.33	920	-196.370	89.950	-1.437	1005.67
985	-144.810	89.410	-2.037	1006.32	919	-197.160	89.950	-1.437	1005.66
984	-145.560	89.410	-2.037	1006.31	918	-197.950	89.960	-1.437	1005.65
983	-146.310	89.400	-2.117	1006.30	917	-198.740	89.960	-1.437	1005.64
982	-147.060	89.400	-2.117	1006.29	916	-199.520	89.960	-1.437	1005.63
981	-147.800	89.400	-2.187	1006.28	915	-200.310	89.970	-1.437	1005.62
980	-148.550	89.390	-2.267	1006.27	914	-201.100	89.970	-1.437	1005.61
979	-149.300	89.390	-2.337	1006.26	913	-201.880	89.980	-1.437	1005.60
978	-150.050	89.390	-2.417	1006.25	912	-202.670	89.980	-1.437	1005.59
977	-150.800	89.400	-2.447	1006.24	911	-203.460	89.980	-1.437	1005.58
976	-151.680	89.420	-2.487	1006.23	910	-204.250	89.990	-1.437	1005.57
975	-152.490	89.440	-2.487	1006.22	909	-205.030	89.990	-1.437	1005.56
974	-153.310	89.460	-2.487	1006.21	908	-205.820	89.990	-1.477	1005.55
973	-154.120	89.470	-2.487	1006.20	907	-206.610	90.000	-1.517	1005.54
972	-154.940	89.490	-2.487	1006.19	906	-207.390	90.000	-1.517	1005.53
971	-155.750	89.510	-2.487	1006.18	905	-208.180	90.010	-1.517	1005.52
970	-156.560	89.530	-2.487	1006.17	904	-208.970	90.010	-1.517	1005.51
969	-157.380	89.540	-2.487	1006.16	903	-209.760	90.010	-1.517	1005.50
968	-158.190	89.560	-2.487	1006.15	902	-210.580	90.030	-1.587	1005.49
967	-159.010	89.580	-2.487	1006.14	901	-211.400	90.040	-1.587	1005.48
966	-159.820	89.600	-2.487	1006.13	899	-212.230	90.060	-1.587	1005.47
965	-160.630	89.620	-2.487	1006.12	899	-213.050	90.080	-1.597	1005.46
964	-161.450	89.630	-2.487	1006.11	898	-213.870	90.090	-1.667	1005.45
963	-162.260	89.650	-2.487	1006.10	897	-214.700	90.110	-1.667	1005.44
962	-163.080	89.670	-2.487	1006.09	896	-215.520	90.120	-1.667	1005.43
961	-163.890	89.690	-2.487	1006.08	895	-216.340	90.140	-1.667	1005.42
960	-164.700	89.700	-2.447	1006.07	894	-217.170	90.160	-1.747	1005.41
959	-165.520	89.720	-2.407	1006.06	893	-217.990	90.170	-1.777	1005.40
958	-166.330	89.740	-2.377	1006.05	892	-218.810	90.190	-1.817	1005.39
957	-167.150	89.760	-2.337	1006.04	891	-219.640	90.200	-1.817	1005.38
956	-167.960	89.770	-2.337	1006.03	890	-220.460	90.220	-1.817	1005.37
955	-168.770	89.790	-2.337	1006.02	889	-221.290	90.230	-1.817	1005.36
954	-169.590	89.810	-2.267	1006.01	888	-222.110	90.250	-1.817	1005.35
953	-170.400	89.830	-2.267	1006.00	887	-222.930	90.270	-1.857	1005.34
952	-171.190	89.830	-2.257	1005.99	886	-223.760	90.280	-1.897	1005.33
951	-171.980	89.840	-2.187	1005.98	885	-224.580	90.300	-1.967	1005.32
950	-172.760	89.840	-2.187	1005.97	884	-225.400	90.310	-1.967	1005.31
949	-173.550	89.840	-2.187	1005.96	883	-226.230	90.330	-1.967	1005.30
948	-174.340	89.850	-2.187	1005.95	882	-227.050	90.350	-1.967	1005.29
947	-175.120	89.850	-2.187	1005.94	881	-227.870	90.360	-2.007	1005.28
946	-175.910	89.850	-2.107	1005.93	880	-228.700	90.380	-2.037	1005.27
945	-176.700	89.860	-2.077	1005.92	879	-229.520	90.390	-2.037	1005.26
944	-177.490	89.860	-2.027	1005.91	878	-230.350	90.410	-2.047	1005.25
943	-178.270	89.870	-1.967	1005.90	877	-231.170	90.420	-2.077	1005.24
942	-179.060	89.870	-1.967	1005.89	876	-231.990	90.440	-2.117	1005.23
941	-179.850	89.870	-1.967	1005.88	875	-232.820	90.460	-2.117	1005.22
940	-180.630	89.880	-1.957	1005.87	874	-233.640	90.470	-2.117	1005.21
939	-181.420	89.880	-1.877	1005.86	873	-234.460	90.490	-2.117	1005.20
938	-182.210	89.880	-1.817	1005.85	872	-235.290	90.500	-2.157	1005.19
937	-182.990	89.890	-1.817	1005.84	871	-236.110	90.520	-2.187	1005.18
936	-183.780	89.890	-1.807	1005.83	870	-236.930	90.540	-2.187	1005.17
935	-184.570	89.890	-1.767	1005.82	869	-237.760	90.550	-2.197	1005.16
934	-185.360	89.900	-1.737	1005.81	868	-238.580	90.570	-2.267	1005.15

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801	-296.570	90.160	-3.237	1004.48	
800	-297.450	90.110	-3.237	1004.47	
799	-298.320	90.070	-3.237	1004.46	
798	-299.190	90.020	-3.237	1004.45	
797	-300.070	89.970	-3.257	1004.44	
796	-300.940	89.930	-3.317	1004.43	
795	-301.810	89.880	-3.317	1004.42	
794	-302.690	89.830	-3.317	1004.41	
793	-303.560	89.780	-3.317	1004.40	
792	-304.430	89.740	-3.317	1004.39	
791	-305.310	89.690	-3.327	1004.38	
790	-306.180	89.640	-3.387	1004.37	
789	-307.050	89.590	-3.387	1004.36	
788	-307.920	89.550	-3.387	1004.35	
787	-308.800	89.500	-3.387	1004.34	
786	-309.670	89.450	-3.387	1004.33	
785	-310.540	89.400	-3.387	1004.32	
784	-311.420	89.360	-3.407	1004.31	
783	-312.290	89.310	-3.467	1004.30	
782	-313.160	89.260	-3.467	1004.29	
781	-314.040	89.210	-3.467	1004.28	
780	-314.910	89.170	-3.467	1004.27	
779	-315.780	89.120	-3.467	1004.26	
778	-316.660	89.070	-3.467	1004.25	
777	-317.530	89.030	-3.467	1004.24	
776	-318.400	88.980	-3.507	1004.23	
775	-319.280	88.930	-3.537	1004.22	
774	-320.150	88.880	-3.537	1004.21	
773	-321.020	88.840	-3.537	1004.20	
772	-321.900	88.790	-3.547	1004.19	
771	-322.770	88.740	-3.587	1004.18	
770	-323.640	88.690	-3.617	1004.17	
769	-324.520	88.650	-3.617	1004.16	
768	-325.390	88.600	-3.617	1004.15	
767	-326.260	88.550	-3.617	1004.14	
766	-327.140	88.500	-3.617	1004.13	
765	-328.010	88.460	-3.617	1004.12	
764	-328.880	88.410	-3.617	1004.11	
763	-329.750	88.360	-3.657	1004.10	
762	-330.630	88.320	-3.687	1004.09	
761	-331.500	88.270	-3.687	1004.08	
760	-332.370	88.220	-3.687	1004.07	
759	-333.250	88.170	-3.687	1004.06	
758	-334.120	88.130	-3.687	1004.05	
757	-334.990	88.080	-3.687	1004.04	
756	-335.870	88.030	-3.707	1004.03	
755	-336.740	87.980	-3.767	1004.02	
754	-337.610	87.940	-3.767	1004.01	
753	-338.490	87.890	-3.767	1004.00	
752	-339.380	87.880	-3.767	1003.99	
751	-340.270	87.870	-3.767	1003.98	
750	-341.170	87.850	-3.787	1003.97	
749	-342.060	87.840	-3.807	1003.96	
748	-342.950	87.830	-3.827	1003.95	
747	-343.840	87.820	-3.837	1003.94	
746	-344.740	87.810	-3.837	1003.93	
745	-345.630	87.800	-3.837	1003.92	
744	-346.520	87.780	-3.857	1003.91	
743	-347.410	87.770	-3.917	1003.90	
742	-348.310	87.760	-3.917	1003.89	
741	-349.200	87.750	-3.917	1003.88	
740	-350.090	87.740	-3.917	1003.87	
739	-350.980	87.720	-3.927	1003.86	
738	-351.880	87.710	-3.957	1003.85	
737	-352.770	87.700	-3.987	1003.84	
736	-353.660	87.690	-3.987	1003.83	

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867	-239.410	90.580	-2.267	1005.14	
866	-240.230	90.600	-2.267	1005.13	
865	-241.050	90.610	-2.307	1005.12	
864	-241.880	90.630	-2.337	1005.11	
863	-242.700	90.650	-2.337	1005.10	
862	-243.520	90.660	-2.347	1005.09	
861	-244.350	90.680	-2.377	1005.08	
860	-245.170	90.690	-2.417	1005.07	
859	-245.990	90.710	-2.417	1005.06	
858	-246.820	90.720	-2.417	1005.05	
857	-247.640	90.740	-2.457	1005.04	
856	-248.470	90.760	-2.487	1005.03	
855	-249.290	90.770	-2.497	1005.02	
854	-250.110	90.790	-2.527	1005.01	
853	-250.940	90.800	-2.567	1005.00	
852	-251.810	90.800	-2.567	1004.99	
851	-252.690	90.800	-2.567	1004.98	
850	-253.570	90.800	-2.567	1004.97	
849	-254.450	90.800	-2.577	1004.96	
848	-255.330	90.790	-2.637	1004.95	
847	-256.210	90.790	-2.637	1004.94	
846	-257.090	90.790	-2.637	1004.93	
845	-257.970	90.790	-2.647	1004.92	
844	-258.850	90.790	-2.677	1004.91	
843	-259.730	90.790	-2.717	1004.90	
842	-260.600	90.780	-2.717	1004.89	
841	-261.480	90.780	-2.717	1004.88	
840	-262.360	90.780	-2.757	1004.87	
839	-263.240	90.780	-2.787	1004.86	
838	-264.120	90.780	-2.787	1004.85	
837	-265.000	90.770	-2.797	1004.84	
836	-265.880	90.770	-2.817	1004.83	
835	-266.760	90.770	-2.847	1004.82	
834	-267.640	90.770	-2.867	1004.81	
833	-268.520	90.770	-2.867	1004.80	
832	-269.390	90.770	-2.867	1004.79	
831	-270.270	90.760	-2.867	1004.78	
830	-271.150	90.760	-2.867	1004.77	
829	-272.030	90.760	-2.867	1004.76	
828	-272.910	90.760	-2.867	1004.75	
827	-273.790	90.760	-2.867	1004.74	
826	-274.670	90.750	-2.867	1004.73	
825	-275.550	90.750	-2.907	1004.72	
824	-276.430	90.750	-2.937	1004.71	
823	-277.310	90.750	-2.947	1004.70	
822	-278.180	90.750	-2.987	1004.69	
821	-279.060	90.740	-3.017	1004.68	
820	-279.940	90.740	-3.017	1004.67	
819	-280.820	90.740	-3.017	1004.66	
818	-281.700	90.740	-3.027	1004.65	
817	-282.580	90.740	-3.097	1004.64	
816	-283.460	90.740	-3.117	1004.63	
815	-284.340	90.730	-3.147	1004.62	
814	-285.220	90.730	-3.157	1004.61	
813	-286.100	90.730	-3.117	1004.60	
812	-286.970	90.680	-3.087	1004.59	
811	-287.840	90.640	-3.107	1004.58	
810	-288.710	90.590	-3.167	1004.57	
809	-289.590	90.540	-3.167	1004.56	
808	-290.460	90.490	-3.167	1004.55	
807	-291.330	90.450	-3.167	1004.54	
806	-292.210	90.400	-3.167	1004.53	
805	-293.080	90.350	-3.167	1004.52	
804	-293.950	90.300	-3.207	1004.51	
803	-294.830	90.260	-3.237	1004.50	
802	-295.700	90.210	-3.237	1004.49	

735	-354.560	87.680	-4.007	1003.82	86.400	-4.887	1003.16
734	-355.450	87.670	-4.067	1003.81	86.370	-4.897	1003.15
733	-356.340	87.650	-4.067	1003.80	86.350	-4.937	1003.14
732	-357.230	87.640	-4.067	1003.79	86.320	-4.967	1003.13
731	-358.130	87.630	-4.067	1003.78	86.290	-4.987	1003.12
730	-359.020	87.620	-4.067	1003.77	86.270	-4.997	1003.11
729	-359.910	87.610	-4.077	1003.76	86.240	-5.017	1003.10
728	-360.800	87.600	-4.107	1003.75	86.210	-5.027	1003.09
727	-361.700	87.580	-4.137	1003.74	86.190	-5.037	1003.08
726	-362.590	87.570	-4.137	1003.73	86.160	-5.037	1003.07
725	-363.480	87.560	-4.137	1003.72	86.130	-5.067	1003.06
724	-364.370	87.550	-4.137	1003.71	86.110	-5.117	1003.05
723	-365.270	87.540	-4.137	1003.70	86.080	-5.117	1003.04
722	-366.160	87.530	-4.137	1003.69	86.050	-5.127	1003.03
721	-367.050	87.510	-4.147	1003.68	86.030	-5.167	1003.02
720	-367.950	87.500	-4.187	1003.67	86.000	-5.187	1003.01
719	-368.840	87.490	-4.217	1003.66	85.970	-5.187	1003.00
718	-369.730	87.480	-4.217	1003.65	86.000	-5.217	1002.99
717	-370.620	87.470	-4.217	1003.64	86.020	-5.267	1002.98
716	-371.520	87.450	-4.227	1003.63	86.050	-5.287	1002.97
715	-372.410	87.440	-4.257	1003.62	86.070	-5.337	1002.96
714	-373.300	87.430	-4.287	1003.61	86.090	-5.337	1002.95
713	-374.190	87.420	-4.287	1003.60	86.120	-5.337	1002.94
712	-375.090	87.410	-4.287	1003.59	86.140	-5.337	1002.93
711	-375.980	87.400	-4.287	1003.58	86.160	-5.367	1002.92
710	-376.870	87.380	-4.297	1003.57	86.190	-5.437	1002.91
709	-377.760	87.370	-4.337	1003.56	86.210	-5.487	1002.90
708	-378.660	87.360	-4.367	1003.55	86.240	-5.487	1002.89
707	-379.550	87.350	-4.367	1003.54	86.260	-5.487	1002.88
706	-380.440	87.340	-4.367	1003.53	86.280	-5.517	1002.87
705	-381.340	87.330	-4.367	1003.52	86.310	-5.587	1002.86
704	-382.230	87.310	-4.387	1003.51	86.330	-5.637	1002.85
703	-383.120	87.300	-4.437	1003.50	86.350	-5.637	1002.84
702	-384.000	87.280	-4.437	1003.49	86.380	-5.637	1002.83
701	-384.890	87.250	-4.437	1003.48	86.400	-5.647	1002.82
700	-385.770	87.220	-4.447	1003.47	86.420	-5.687	1002.81
699	-386.650	87.200	-4.487	1003.46	86.450	-5.717	1002.80
698	-387.540	87.170	-4.517	1003.45	86.470	-5.767	1002.79
697	-388.420	87.140	-4.517	1003.44	86.500	-5.867	1002.78
696	-389.300	87.120	-4.527	1003.43	86.520	-5.867	1002.77
695	-390.190	87.090	-4.557	1003.42	86.540	-5.887	1002.76
694	-391.070	87.060	-4.587	1003.41	86.570	-5.947	1002.75
693	-391.950	87.040	-4.587	1003.40	86.590	-5.987	1002.74
692	-392.840	87.010	-4.587	1003.39	86.610	-6.027	1002.73
691	-393.720	86.980	-4.587	1003.38	86.640	-6.067	1002.72
690	-394.600	86.960	-4.587	1003.37	86.660	-6.177	1002.71
689	-395.490	86.930	-4.597	1003.36	86.680	-6.367	1002.70
688	-396.370	86.900	-4.637	1003.35	86.710	-6.467	1002.69
687	-397.250	86.880	-4.667	1003.34	86.730	-6.437	1002.68
686	-398.140	86.850	-4.667	1003.33	86.760	-6.387	1002.67
685	-399.020	86.820	-4.667	1003.32	86.780	-6.447	1002.66
684	-399.900	86.800	-4.677	1003.31	86.800	-6.567	1002.65
683	-400.790	86.770	-4.717	1003.30	86.830	-6.597	1002.64
682	-401.670	86.740	-4.737	1003.29	86.850	-6.557	1002.63
681	-402.550	86.720	-4.737	1003.28	86.870	-6.537	1002.62
680	-403.440	86.690	-4.737	1003.27	86.900	-6.597	1002.61
679	-404.320	86.670	-4.737	1003.26	86.920	-6.687	1002.60
678	-405.200	86.640	-4.737	1003.25	86.940	-6.657	1002.59
677	-406.080	86.610	-4.737	1003.24	86.970	-6.587	1002.58
676	-406.970	86.590	-4.767	1003.23	86.990	-6.537	1002.57
675	-407.850	86.560	-4.817	1003.22	87.010	-6.567	1002.56
674	-408.730	86.530	-4.817	1003.21	87.030	-6.627	1002.55
673	-409.620	86.510	-4.837	1003.20	87.050	-6.667	1002.54
672	-410.500	86.480	-4.887	1003.19	87.070	-6.597	1002.53
671	-411.380	86.450	-4.887	1003.18	87.090	-6.467	1002.52
670	-412.270	86.430	-4.887	1003.17	87.110	-6.427	1002.51

537	-532.010	88.620	-6.537	1001.84
536	-532.920	88.660	-6.497	1001.83
535	-533.840	88.690	-6.647	1001.82
534	-534.750	88.720	-6.837	1001.81
533	-535.670	88.750	-6.917	1001.80
532	-536.580	88.780	-6.897	1001.79
531	-537.500	88.810	-6.857	1001.78
530	-538.410	88.850	-6.797	1001.77
529	-539.330	88.880	-6.767	1001.76
528	-540.240	88.910	-6.767	1001.75
527	-541.160	88.940	-6.727	1001.74
526	-542.070	88.970	-6.687	1001.73
525	-542.980	89.000	-6.727	1001.72
524	-543.900	89.030	-6.837	1001.71
523	-544.810	89.070	-6.917	1001.70
522	-545.730	89.100	-6.917	1001.69
521	-546.640	89.130	-6.917	1001.68
520	-547.560	89.160	-6.917	1001.67
519	-548.470	89.190	-6.917	1001.66
518	-549.390	89.220	-6.877	1001.65
517	-550.300	89.260	-6.837	1001.64
516	-551.210	89.290	-6.797	1001.63
515	-552.130	89.320	-6.767	1001.62
514	-553.040	89.350	-6.767	1001.61
513	-553.960	89.380	-6.747	1001.60
512	-554.870	89.410	-6.707	1001.59
511	-555.790	89.440	-6.687	1001.58
510	-557.620	89.510	-6.687	1001.56
509	-558.530	89.540	-6.727	1001.55
508	-559.450	89.570	-6.767	1001.54
507	-560.360	89.600	-6.767	1001.53
506	-561.270	89.630	-6.797	1001.52
505	-562.190	89.670	-6.917	1001.51
504	-563.100	89.700	-6.967	1001.50
503	-564.000	89.700	-6.927	1001.49
502	-564.890	89.690	-6.917	1001.48
501	-565.780	89.690	-6.877	1001.47
500	-566.670	89.690	-6.797	1001.46
499	-567.560	89.690	-6.767	1001.45
498	-568.450	89.690	-6.767	1001.44
497	-569.340	89.680	-6.767	1001.43
496	-570.240	89.680	-6.727	1001.42
495	-571.130	89.680	-6.667	1001.41
494	-572.020	89.680	-6.627	1001.40
493	-572.910	89.680	-6.687	1001.39
492	-573.800	89.670	-6.797	1001.38
491	-574.690	89.670	-6.837	1001.37
490	-575.590	89.670	-6.757	1001.36
489	-576.480	89.670	-6.687	1001.35
488	-577.370	89.670	-6.687	1001.34
487	-578.260	89.660	-6.687	1001.33
486	-579.150	89.660	-6.727	1001.32
485	-580.040	89.660	-6.687	1001.31
484	-580.930	89.660	-6.647	1001.30
483	-581.830	89.660	-6.727	1001.29
482	-582.720	89.650	-6.807	1001.28
481	-583.610	89.650	-6.797	1001.27
480	-584.500	89.650	-6.767	1001.26
479	-585.390	89.650	-6.807	1001.25
478	-586.280	89.650	-6.877	1001.24
477	-587.180	89.640	-6.877	1001.23
476	-588.070	89.640	-6.837	1001.22
475	-588.960	89.640	-6.797	1001.21
474	-589.850	89.640	-6.687	1001.20
473	-590.740	89.640	-6.657	1001.19
472	-591.630	89.630	-6.727	1001.18

603	-472.490	87.130	-6.387	1002.50
602	-473.390	87.150	-6.417	1002.49
601	-474.290	87.170	-6.557	1002.48
600	-475.190	87.190	-6.717	1002.47
599	-476.090	87.210	-6.767	1002.46
598	-476.980	87.230	-6.767	1002.45
597	-477.880	87.250	-6.767	1002.44
596	-478.780	87.260	-6.727	1002.43
595	-479.680	87.280	-6.727	1002.42
594	-480.570	87.300	-6.717	1002.41
593	-481.470	87.320	-6.727	1002.40
592	-482.370	87.340	-6.687	1002.39
591	-483.270	87.360	-6.717	1002.38
590	-484.160	87.380	-6.797	1002.37
589	-485.060	87.400	-6.867	1002.36
588	-485.960	87.420	-6.897	1002.35
587	-486.860	87.440	-6.857	1002.34
586	-487.750	87.460	-6.777	1002.33
585	-488.650	87.480	-6.687	1002.32
584	-489.550	87.500	-6.687	1002.31
583	-490.450	87.520	-6.717	1002.30
582	-491.350	87.540	-6.767	1002.29
581	-492.240	87.560	-6.767	1002.28
580	-493.140	87.580	-6.767	1002.27
579	-494.040	87.600	-6.797	1002.26
578	-494.940	87.620	-6.777	1002.25
577	-495.830	87.640	-6.657	1002.24
576	-496.730	87.660	-6.577	1002.23
575	-497.630	87.680	-6.567	1002.22
574	-498.530	87.700	-6.617	1002.21
573	-499.420	87.720	-6.647	1002.20
572	-500.320	87.740	-6.787	1002.19
571	-501.220	87.760	-6.917	1002.18
570	-502.120	87.780	-6.917	1002.17
569	-503.010	87.800	-6.917	1002.16
568	-503.910	87.820	-6.917	1002.15
567	-504.810	87.840	-6.877	1002.14
566	-505.710	87.860	-6.807	1002.13
565	-506.610	87.880	-6.797	1002.12
564	-507.500	87.900	-6.867	1002.11
563	-508.400	87.920	-6.917	1002.10
562	-509.300	87.940	-6.847	1002.09
561	-510.200	87.960	-6.727	1002.08
560	-511.090	87.980	-6.717	1002.07
559	-511.990	88.000	-6.797	1002.06
558	-512.890	88.020	-6.767	1002.05
557	-513.790	88.040	-6.687	1002.04
556	-514.680	88.060	-6.657	1002.03
555	-515.580	88.080	-6.577	1002.02
554	-516.480	88.100	-6.547	1002.01
553	-517.380	88.120	-6.577	1002.00
552	-518.290	88.150	-6.597	1001.99
551	-519.210	88.180	-6.627	1001.98
550	-520.120	88.210	-6.667	1001.97
549	-521.040	88.250	-6.687	1001.96
548	-521.950	88.280	-6.687	1001.95
547	-522.860	88.310	-6.687	1001.94
546	-523.780	88.340	-6.687	1001.93
545	-524.690	88.370	-6.687	1001.92
544	-525.610	88.400	-6.727	1001.91
543	-526.520	88.440	-6.797	1001.90
542	-527.440	88.470	-6.837	1001.89
541	-528.350	88.500	-6.807	1001.88
540	-529.270	88.530	-6.727	1001.87
539	-530.180	88.560	-6.687	1001.86
538	-531.100	88.590	-6.657	1001.85

405	-652.380	90.340	-6.527	1000.51
404	-653.300	90.360	-6.537	1000.50
403	-654.220	90.400	-6.497	1000.49
402	-655.140	90.440	-6.417	1000.48
401	-656.060	90.480	-6.437	1000.47
400	-656.980	90.530	-6.467	1000.46
399	-657.900	90.570	-6.367	1000.45
398	-658.820	90.610	-6.267	1000.44
397	-659.740	90.660	-6.327	1000.43
396	-660.660	90.700	-6.567	1000.42
395	-661.590	90.740	-6.737	1000.41
394	-662.510	90.780	-6.717	1000.40
393	-663.430	90.830	-6.687	1000.39
392	-664.350	90.870	-6.737	1000.38
391	-665.270	90.910	-6.767	1000.37
390	-666.190	90.960	-6.667	1000.36
389	-667.110	91.000	-6.567	1000.35
388	-668.030	91.040	-6.487	1000.34
387	-668.950	91.090	-6.417	1000.33
386	-669.870	91.130	-6.387	1000.32
385	-670.800	91.170	-6.437	1000.31
384	-671.720	91.210	-6.467	1000.30
383	-672.640	91.260	-6.467	1000.29
382	-673.560	91.300	-6.467	1000.28
381	-674.480	91.340	-6.467	1000.27
380	-675.400	91.390	-6.467	1000.26
379	-676.320	91.430	-6.507	1000.25
378	-677.240	91.470	-6.487	1000.24
377	-678.160	91.510	-6.467	1000.23
376	-679.080	91.560	-6.467	1000.22
375	-680.000	91.600	-6.467	1000.21
374	-680.930	91.640	-6.467	1000.20
373	-681.850	91.690	-6.467	1000.19
372	-682.770	91.730	-6.467	1000.18
371	-683.690	91.770	-6.467	1000.17
370	-684.610	91.810	-6.467	1000.16
369	-685.530	91.860	-6.467	1000.15
368	-686.450	91.900	-6.507	1000.14
367	-687.370	91.940	-6.587	1000.13
366	-688.290	91.990	-6.657	1000.12
365	-689.210	92.030	-6.637	1000.11
364	-690.140	92.070	-6.617	1000.10
363	-691.060	92.110	-6.707	1000.09
362	-691.980	92.160	-6.767	1000.08
361	-692.900	92.200	-6.767	1000.07
360	-693.820	92.240	-6.767	1000.06
359	-694.740	92.290	-6.717	1000.05
358	-695.620	92.330	-6.637	1000.04
357	-696.510	92.370	-6.567	1000.03
356	-697.390	92.410	-6.537	1000.02
355	-698.280	92.460	-6.637	1000.01
354	-699.160	92.500	-6.637	1000.00
353	-700.040	92.540	-6.567	0959.99
352	-700.930	92.580	-6.437	0959.98
351	-701.810	92.630	-6.437	0959.97
350	-702.700	92.670	-6.467	0959.96
349	-703.580	92.710	-6.417	0959.95
348	-704.470	92.760	-6.287	0959.94
347	-705.350	92.800	-6.237	0959.93
346	-706.230	92.840	-6.337	0959.92
345	-707.120	92.880	-6.387	0959.91
344	-708.000	92.930	-6.287	0959.90
343	-708.890	92.970	-6.237	0959.89
342	-709.770	93.010	-6.187	0959.88
341	-710.650	93.050	-6.117	0959.87
340	-711.540	93.100	-6.237	0959.86

471	-592.520	89.630	-6.787	1001.17
470	-593.420	89.630	-6.817	1001.16
469	-594.310	89.630	-6.877	1001.15
468	-595.200	89.630	-6.957	1001.14
467	-596.090	89.620	-6.947	1001.13
466	-596.980	89.620	-6.867	1001.12
465	-597.870	89.620	-6.757	1001.11
464	-598.760	89.620	-6.667	1001.10
463	-599.660	89.620	-6.627	1001.09
462	-600.550	89.610	-6.737	1001.08
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459	-603.220	89.610	-6.987	1001.05
458	-604.110	89.610	-6.987	1001.04
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456	-605.900	89.600	-6.947	1001.02
455	-606.790	89.600	-6.917	1001.01
454	-607.680	89.600	-6.827	1001.00
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449	-612.240	89.670	-6.797	1000.95
448	-613.150	89.690	-6.717	1000.94
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446	-614.980	89.720	-6.807	1000.92
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437	-623.190	89.860	-6.877	1000.83
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419	-639.610	90.130	-6.827	1000.65
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247	-794.140	96.810	-7.217	0958.93
246	-795.080	96.870	-7.217	0958.92
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243	-797.890	97.040	-7.157	0958.89
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221	-818.480	98.330	-7.107	0958.67
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285	-760.170	95.300	-6.587	0959.31
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8	-1011.840	119.420	-7.517	0956.54
7	-1012.750	119.530	-7.587	0956.53
6	-1013.660	119.640	-7.587	0956.52
5	-1014.560	119.750	-7.667	0956.51
4	-1015.470	119.860	-7.737	0956.50
3	-1016.370	119.970	-7.737	0956.49
2	-1017.280	120.080	-7.737	0956.48
1	-1018.190	120.190	-7.737	0956.47