

U. S. DEPARTMENT OF THE INTERIOR  
U. S. GEOLOGICAL SURVEY  
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**THE 1992 BASIN & RANGE PROVINCE GPS SURVEY:  
1. POINT DESCRIPTIONS**

by

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Open-file Report 94-285

This report is preliminary and has not been reviewed for conformity with U. S. Geological Survey standards or with the North American Stratigraphic Code. Any use of trade, product, or firm names is for descriptive purposes only and does not imply endorsement by the U. S. Government.

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## Introduction

In October 1992 a geodetic network spanning the Basin & Range Province was established and measured for the first time using GPS. The field survey and subsequent data processing and results are described by Foulger (1994a, b). This report describes the individual network points. Because landmarks change rapidly it is recommended that these descriptions be updated following each survey of the network.

The network extends from near Truckee, California, in the Sierra Nevada structural province, eastward to the San Rafael Swell in the Colorado Plateau province in central Utah, a distance of about 825 km (Figure 1). It consists of three west-east profiles about 50 km apart in the NS direction: a northern, middle and southern profile. The northern and southern profiles comprise 8 points each, spaced at intervals of about 100 km in the east-west direction. The middle profile comprises 48 points spaced at intervals of 15-25 km. This point configuration makes up a chain of 7 approximately equilateral quadrangles and the whole network contains 64 points. The network was occupied during 14 measurement days in the three-week period 5th - 23rd October 1992. Up to 12 TurboRogue GPS receivers were deployed simultaneously in 147 measurement sessions yielding an average of 2.3 occupations per point (Foulger, 1994a). For the network as a whole, final point coordinate repeatabilities of about 0.24, 0.18 and 1.14 cm, and calculated accuracies (1- $\sigma$  scaled formal errors) of about 0.25, 0.21 and 2.25 cm were achieved in the local north, east, and up directions (Foulger, 1994b).

The middle profile lies along U. S. highway 50, and the majority of those points are pre-existing US Coast and Geodetic Survey leveling benchmarks. These points are mostly concrete piers embedded in alluvium with bronze marker disks on the upper surfaces. The northern and southern profiles comprise points lying near side roads off highway 50. Many of those points were installed for our survey in 1992. They consist of headless, stainless steel rods cemented into holes drilled in bedrock and set flush with the surface of the rock in most cases. Pre-existing points were used wherever possible, and these were often old triangulation points or section markers. The latter generally comprise a bronze disk attached to a vertical steel pipe embedded into alluvium and standing a few inches above ground level. Selection of the points of the northern and southern profiles was constrained by the requirement that they be remote and "secure" so that the surveying equipment could be deployed in unattended mode in 1992.

Point selection, installation and reconnaissance was carried out simultaneously with the survey in 1992, by personnel who worked a few points ahead of the surveyors. Although this strategy was imposed upon us by necessity and considered to be risky at the time, it turned out to be economical of time and expense and advantageous to the work. It contributed to the perfect point-occupation rate achieved in our survey, because a) we were able to dispense with a major

reconnaissance field effort prior to the measurement work, and b) the points were freshly described and flagged and access checked a few days before measurement.

The authors highly recommend that a similar strategy be employed prior to the next survey. The network area is prone to flash flooding in wet weather and some of the points of the northern and southern profiles are difficult to find. A single reconnaissance party moving ahead through the network, checking road conditions and flagging points will provide advance information on accessibility and save the measurement parties time wasted searching for points. This strategy will thereby increase the point occupation success rate and the amount of data gathered.

In the descriptions given in this report, the point names are the names of the appropriate topographic map (usually 1:24,000 scale). Coordinates given are rounded results from the final data processing and question marks indicate unknown data that should be added during the next survey.

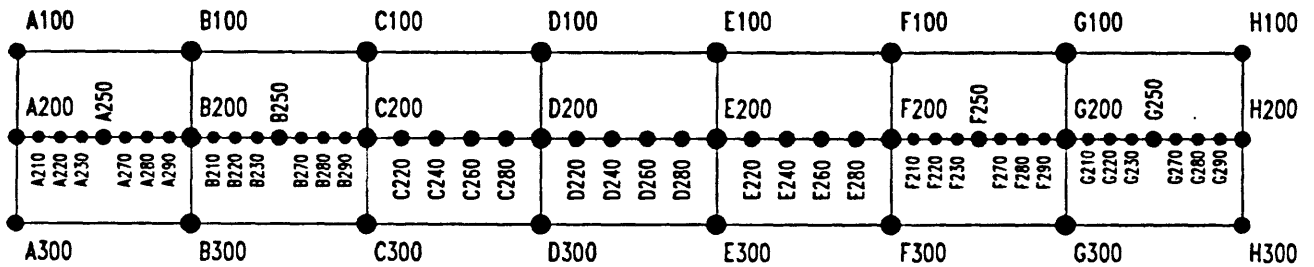
## **Acknowledgments**

The following people assisted with point selection and descriptions: Kevin Clark, Gillian Foulger, Gary Hamilton, Grant Marshall, Chuck Stiffler, Jim Sutton, and Wayne Thatcher. Jim Richardson wrote the description for point F300. Gary Hamilton did a fine review of the manuscript

## **References**

- Foulger, G.R., The 1992 Basin & Range Province GPS Survey: 2. The Field Survey, U.S. Geological Survey Open-File Report OF 94-286, 1994a.
- Foulger, G.R., The 1992 Basin & Range Province GPS Survey: 3. Data Processing and Results, U.S. Geological Survey Open-File Report OF 94-287, 1994b.

(a)



(b)

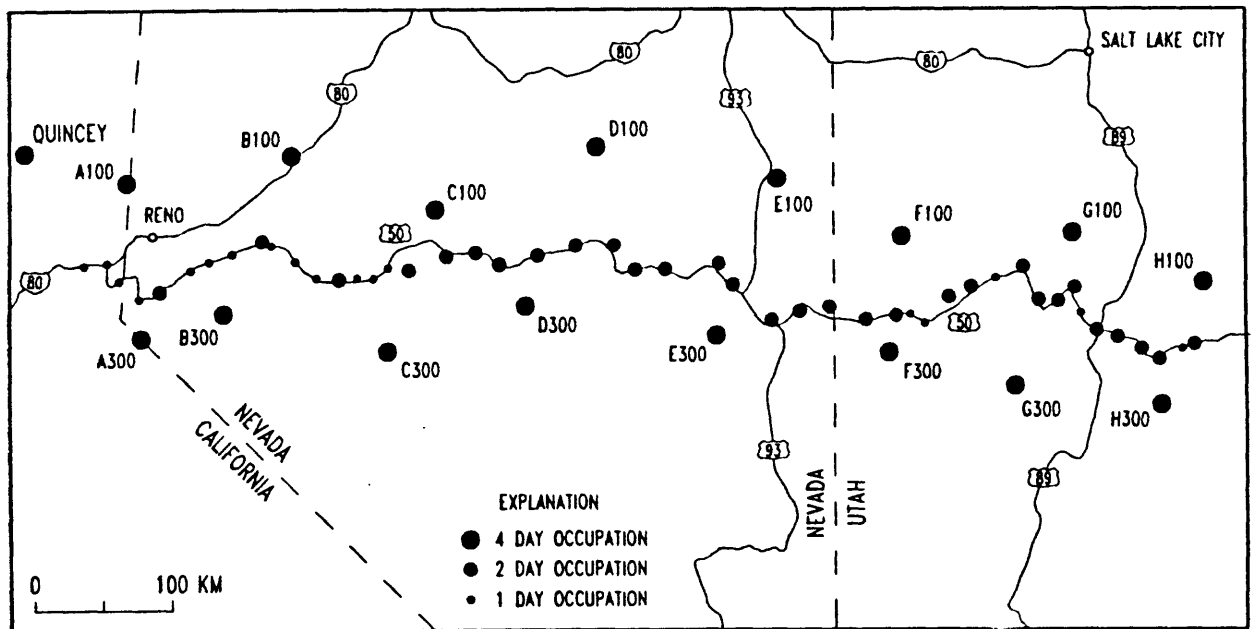


Figure 1. (a) Schematic map of 1992 Basin & Range Province GPS network, showing point codes and planned observation frequencies. Small symbols: single occupancy; Intermediate symbols: double occupancy; Large symbols: quadruple occupancy. (b) Map showing actual point positions and observation frequencies that were achieved. quin: permanent VLBI site at Quincy, California. Symbols as in (a).

**Point:** A100

**Name:** SAGE

**Coordinates:** 39 47 27.305 -120 2 19.809 1532.20 m

**Map:** Beckwourth Pass, Calif. 1975. 1:24,000  
Susanville, California. 1984. 1:100,000.

**Access:** Open, 2WD

**Mark type:** Brass plaque set in 9" circular concrete post protruding 2 cm from the ground surface. USC&GS.

**Inscription:** SAGE 1966

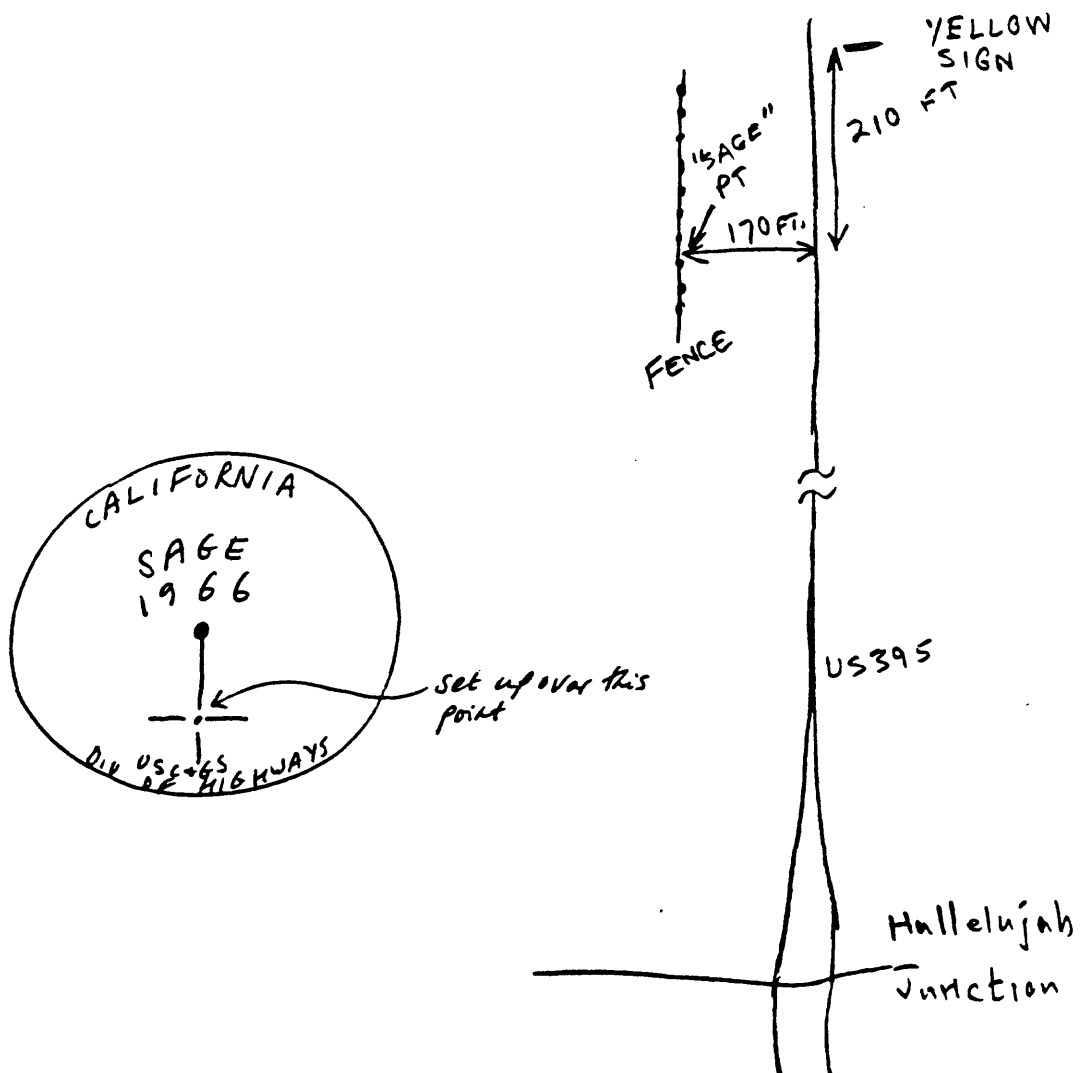
**Reference marks:** None

**On-site facilities:** None

**Horizon mask:** < 15° in all directions

**Description:** From Hallelujah Junction (on US 395, about 30 mi. north of I-80), go north 1.15 mi. on US 395 to yellow sign ("Trailers Campers Gusty Wind Area Next 56 Miles") on east side of highway. Point is 210 ft. south of sign and 170 ft west of west edge of pavement, 2.4 ft. east of fence line, near sign on fence.

**Sketch/Photos:**



**Point:** A200

**Name:** NORDEN

**Coordinates:** 39 19 4.623 -120 19 29.781 2162.05 m

**Map:** Norden, Calif. 1955 (Photorevised 1979). 1:24,000

Truckee, California - Nevada. 1977. 1:100,000.

**Access:** Open, 2WD/4WD. If parked on paved highway through Donner Pass, then an uphill 0.13 mile hike is required. Difficult 4WD road (trail) comes within 350' of BM, requiring 350' hike on level ground.

**Mark type:** Brass plaque cemented into drill hole in rock. NGS.

**Inscription:** UU836 1947

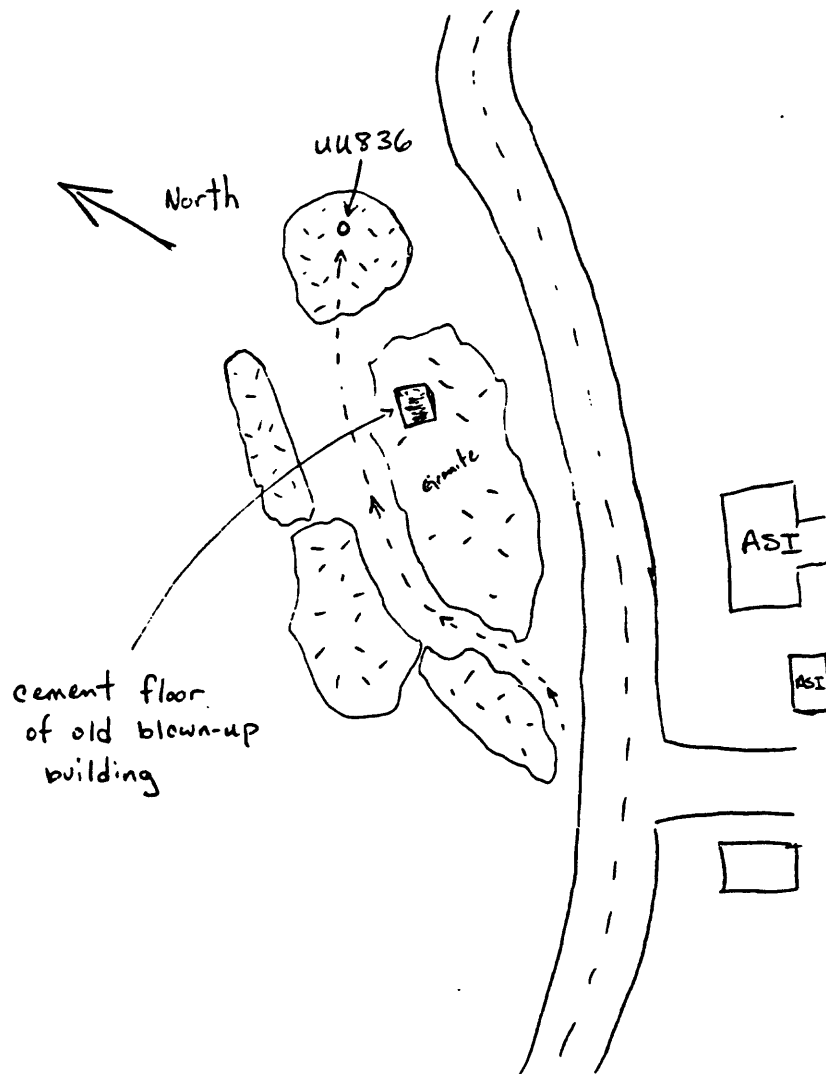
**Reference marks:** None

**On-site facilities:** None. Very exposed, possible high winds.

**Horizon mask:** < 150° in all directions

**Description:** 3.9 miles east on Donner Pass road from Soda Springs/Norden exit off I-80. Park at Donner summit near Alpine Skills International (ASI). Hike northeast (0.13 miles) up granite hill on north side of road across from ASI. Bench mark is near top of hill cemented into flat-topped granite dome overlooking Donner Lake.

**Sketch/Photos:**





**Point:** A210

**Name:** POLARIS

**Coordinates:** 39 21 27.819 -120 8 31.877 1750.77 m

**Map:** Truckee, Calif. 1955 Photorevised 1969. 1:24,000  
Truckee, California - Nevada. 1977. 1:100,000.

**Access:** Open, 2WD. Point is about 50 m from parking. Take snow shovel and chains in winter

**Mark type:** Brass plaque set in concrete pier. CALTRANS.  
Station mark and reference mark No. 1 are approximately 20 m east of the existing drainage ditch of east-bound I-80 and appear to be well settled and out of harms way w.r.t being in the drainage course. Due to the elevation of the area there is bound to be frost heave and other detrimental conditions due to being under a large amount of snow for the winter months.

**Inscription:** POLARIS 1979

**Reference marks:** POLARIS RM 01 - approx. 8 m 350° from main point.

**On-site facilities:** None

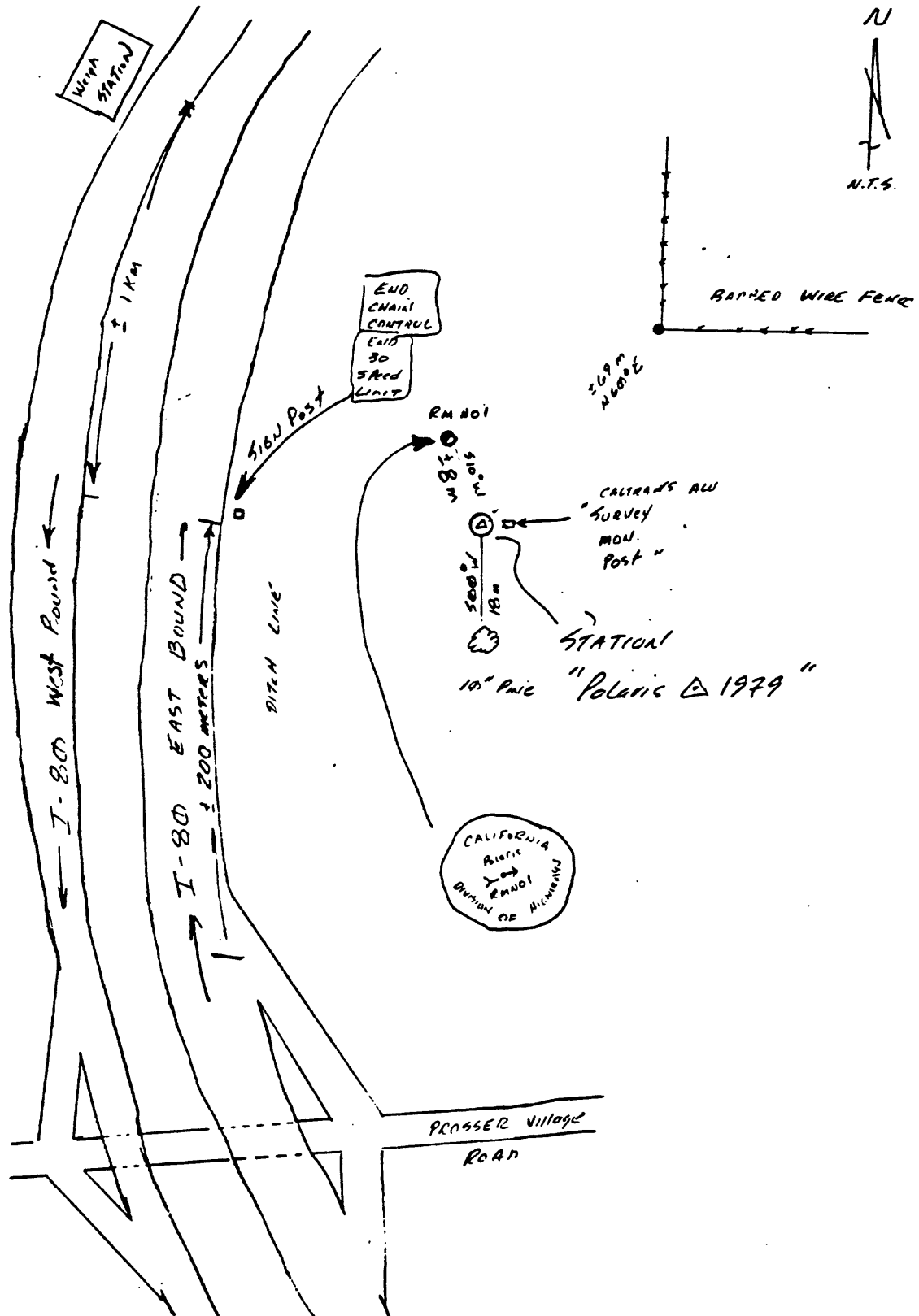
**Horizon mask:** < 15° in all directions

**Description:** From the intersection of I-395 and I-80 in Reno, NV, proceed west on I-80 ? miles to a California state truck weighing facility on the right (northwest). continue west on I-80 ? miles to the "Prosser Village Rd" exit. Exit off I-80. Turn left (southeast) onto Prosser Village Road and proceed under the I-80 viaduct. Turn left onto the east-bound I-80 entrance ramp and onto I-80 east. Continue about 0.25 miles on I-80 to the station on the right (southeast).

From Stanford point description: From the junction of I80 and Calif. 89 on the northeast outskirts of Truckee, go east on I80 for 2.2 mi. (3.5 km) to the station of the right. Station is 197.0 ft. (60.0 m) west of fence corner, 120 ft. (36.6 m) south of the centerline of I80, 56 ft. (17.1 m) northeast of a 4-inch pine, and 2.8 ft. (0.9 m) north of a steel witness post.

**Sketch/Photos:**

Point: A210 (continued)



**Point:** A220

**Name:** KINGS BEACH

**Coordinates:** 39 14 18.307 -120 1 57.226 1879.93 m

**Map:** Kings Beach, Calif. - Nev. 1955 Photorevised 1969. 1:24,000  
Truckee, California - Nevada. 1977. 1:100,000.

**Access:** Permit (verbal is OK) from Old Brockway Golf Course, PO Box 1368, Kings Beach, CA 96143, (916) 546-9909. Open, 2WD, adjacent to paved highway. Danger of golf balls hitting antenna, tripod or personnel.

**Mark type:** Brass plaque cemented into drill hole in rock. USGS.

**Inscription:** H181 1932

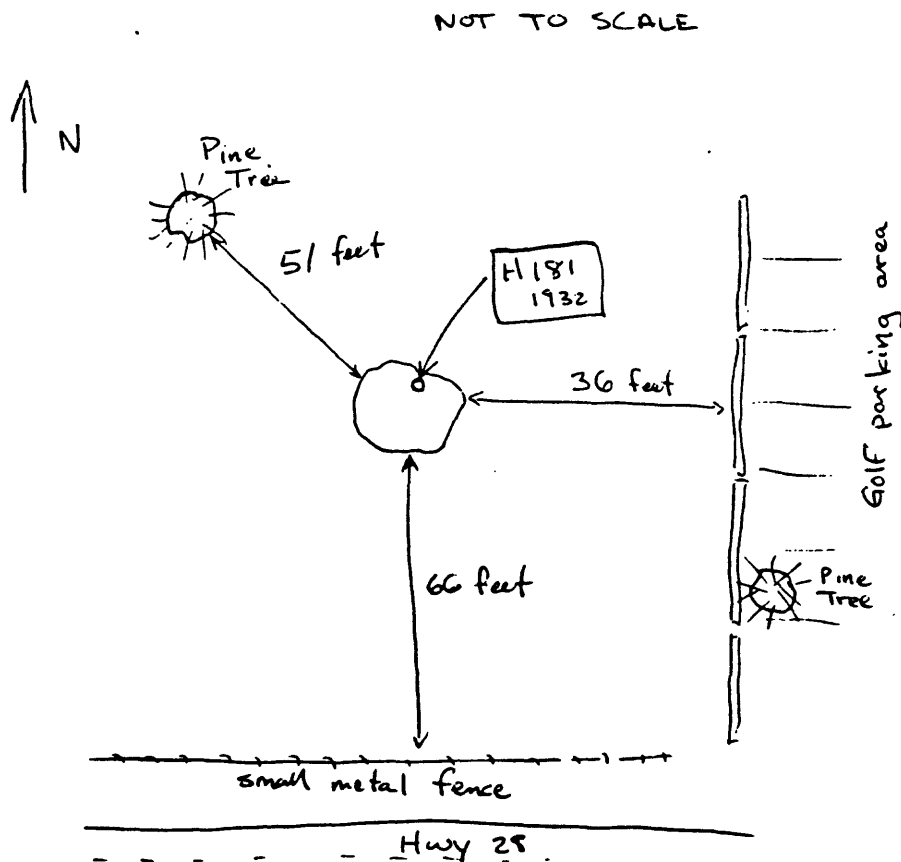
**Reference marks:** None

**On-site facilities:** None

**Horizon mask:** Visibility obscured up to 60° for small ranges in northwest and southeast.

**Description:** Drive to Kings Beach, 17.3 miles north on Nev./Calif. highway 28 from the intersection with US 50. The point is just west of the intersection of Calif. 28 with Calif. 267. The point is a brass tablet cemented into a rock outcrop at the south end of the golf course. It is 69 feet west of Brassie Ave and 114 feet north of the centerline of Calif. highway 28.

**Sketch/Photos:**



**Point:** A230

**Name:** CARSON CITY

**Coordinates:** 39 6 38.965 -119 55 21.707 2087.14 m

**Map:** Carson City, Nev. 1956. 1:62,500  
Carson City, Nevada. 1979. 1:100,000.

**Access:** Open, 2WD

**Mark type:** Brass plaque set in concrete pier. USGS.

**Inscription:** P208 1935

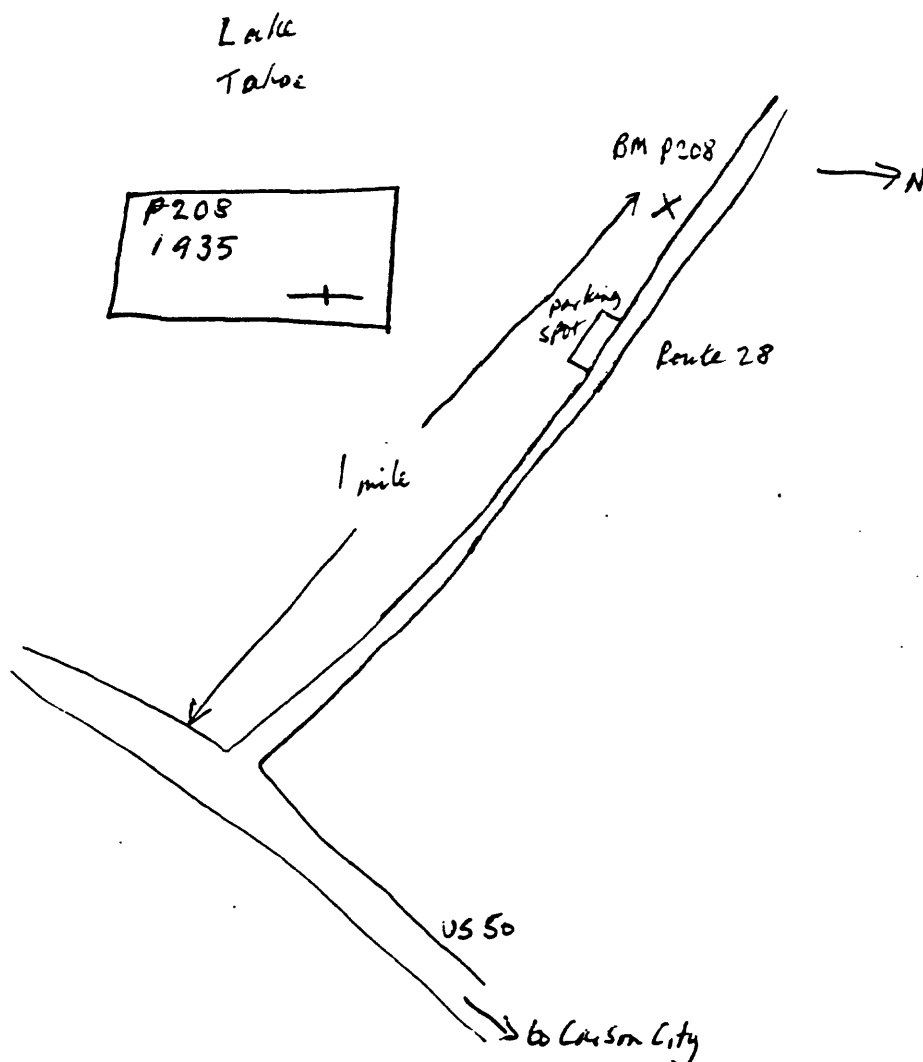
**Reference marks:** None

**On-site facilities:** None

**Horizon mask:** Visibility obscured up to 40° for small ranges in southwest and southeast.

**Description:** From Carson city drive 3.5 miles south on highway US 50/395 to junction with hwy. US 50 to the west. Turn west on US 50 and drive 9.6 mi. west to Spooner Junction. Turn north and drive 1.0 mi. on Nevada hwy. 28. The point is 55 feet west of hwy. 28 and there is parking 100 feet from the mark. The point is a brass tablet in a concrete post flush with the ground surface.

**Sketch/Photos:**



**Point:** A250

**Name:** GENOA

**Coordinates:** 39 6 5.237 -119 46 27.173 1471.94 m

**Map:** Genoa, Nevada. 1968 (Photorevised 1982). 1:24,000

Carson City, Nevada. 1979. 1:100,000.

**Access:** Open, 2WD

**Mark type:** Brass plaque set in concrete pier. NGS.

**Inscription:** U316 RESET 1986

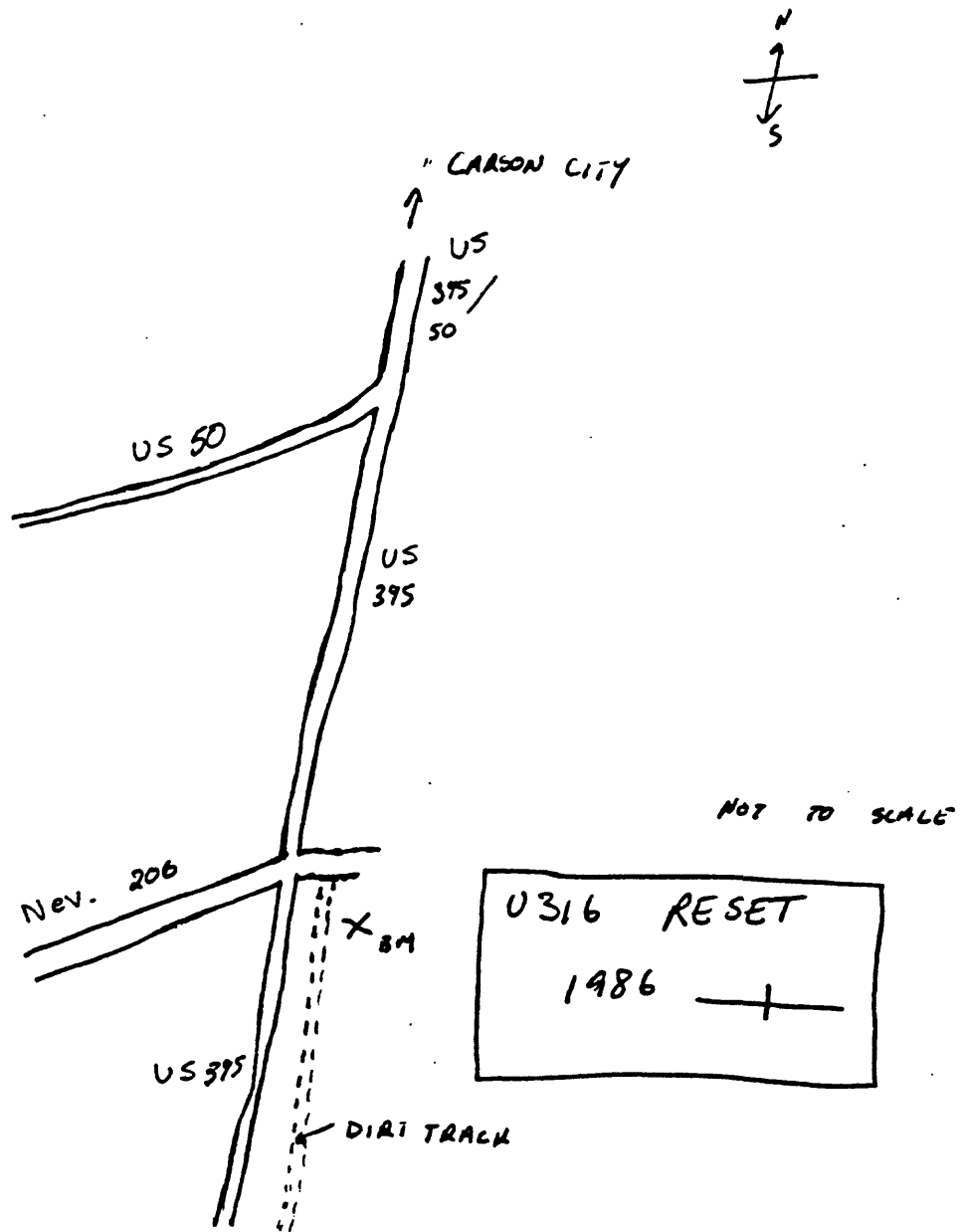
**Reference marks:** None

**On-site facilities:** None

**Horizon mask:** < 15° in all directions.

**Description:** From Carson City, drive south on US 50/395 for about 3.5 miles to the junction with US 50 to the west. Continue south on US 395 for another 1.25 miles to the intersection of US 395 and Jack's Valley Road (Nevada 206). The mark is 100 feet east of US 395 and 40 feet east of a dirt road paralleling US 395.

**Sketch/Photos:** Photo available in map envelope.



**Point:** A270

**Name:** FLOWERY PEAK

**Coordinates:** 39 16 55.968 -119 33 0.998 1302.00 m

**Map:** Flowery Peak, Nevada. 1967 (Photorevised 1982). 1:24,000  
Carson City, Nevada. 1979. 1:100,000.

**Access:** Open, 2WD

**Mark type:** Plaque set in concrete pier. USC&GS.

**Inscription:** D200 RESET 1976

**Reference marks:** D200 RESET 1954

**On-site facilities:** None

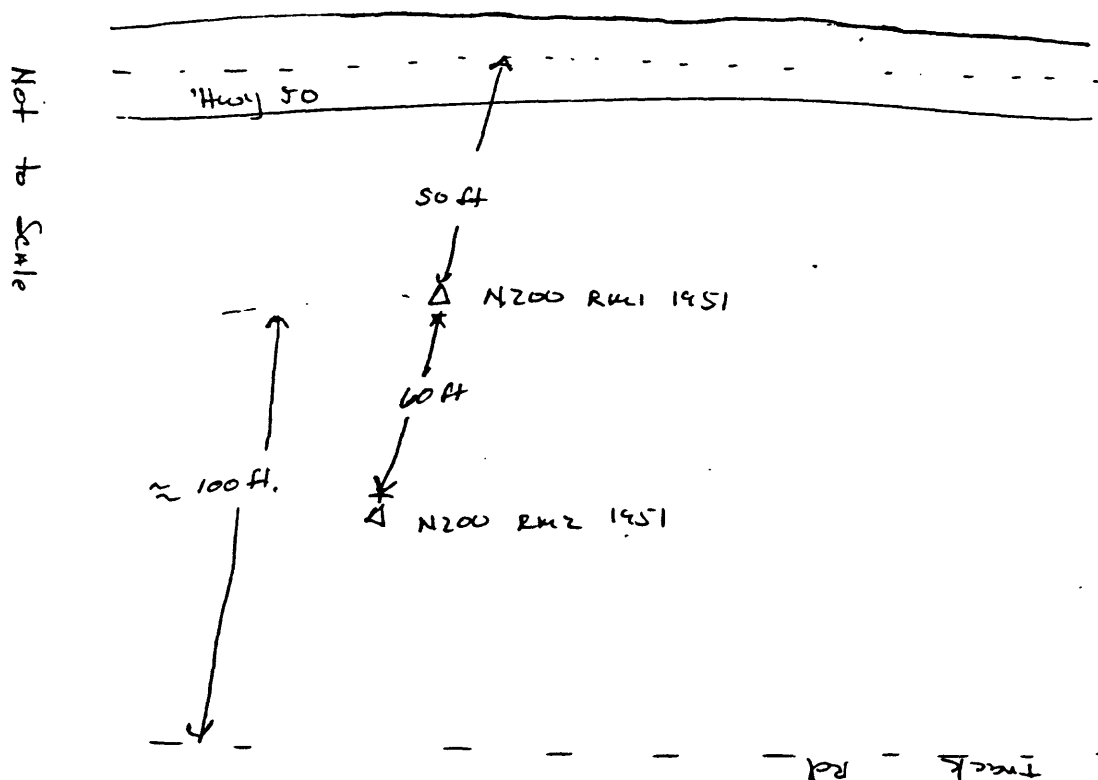
**Horizon mask:** < 15° in all directions.

**Description:** From US 50-US 395 intersection in Carson City, take highway US 50 east 11.4 miles to the intersection with mainstreet in Dayton. Point is a further 3.9 miles east on US 50 (or 15.35 miles from US 50-US 395 intersection at Carson City). Point is about 10 m south of highway 50, and about 3 m south of old dirt track (about 7 m south of highway 50). There are two points here. The first is at the edge of the dirt road, about 3 m north of the point used in this survey. Use point with D200 RESET 1976 inscription, not D200 RESET 1954. Both points are set in large chunks of concrete but older one is set at an angle to ground (horizontal).

**Sketch/Photos:**

**Point: A280****Name:** MISFITS FLAT**Coordinates:** 39 20 59.453 -119 24 19.681 1280.65 m**Map:** Misfits Flat, Nev. Provisional Edition 1985. 1:24,000

Carson City, Nevada. 1979. 1:100,000.

**Access:** Open, 2WD. On shoulder of highway 50. Be careful of soft sand. Exposed.**Mark type:** Brass plaque set in concrete pier. USC&GS.**Inscription:** N200 NO 1 1951**Reference marks:** N200 NO 2 1951 - Standard USC&GS reference mark set in concrete block about 19 m south of mark. Main mark may have been destroyed. No evidence of mark found except bent over witness-type post. Maybe hit by grader?**On-site facilities:** None**Horizon mask:**  $< 15^\circ$  in all directions..**Description:** From highway US 50-US 395 junction in Carson City, drive 24.4 miles east on US 50. Mark is on right-hand side (southeast) of highway US 50, about 2 miles southwest of Stagecoach. Mark is 50 feet south of center line of highway US 50. USC&GS mark set in square concrete post. Concrete cracked but otherwise in good condition.**Sketch/Photos:**

**Point:** A290

**Name:** SILVER SPRINGS NORTH

**Coordinates:** 39 25 44.714 -119 11 36.561 1254.33 m

**Map:** Silver Springs North, Nev. Provisional edition 1985. 1:24,000

Carson City, Nevada. 1979. 1:100,000.

**Access:** Open, 2WD, sturdy tires. May need 4WD if wet. Dirt road rocky in places.

**Mark type:** Brass plaque set in concrete pier. USC&GS.

Mark is about 10 m south of southern rail of train tracks. USC&GS BM. Brass tablet in concrete post 6 inches above ground, 24 feet south of the south rail of train tracks, 54 feet north of the dirt road that is parallel to the train tracks.

**Inscription:** S118 1934

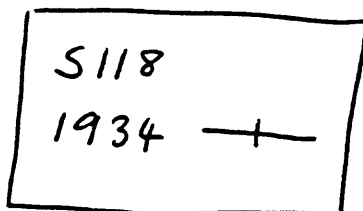
**Reference marks:** None

**On-site facilities:** None

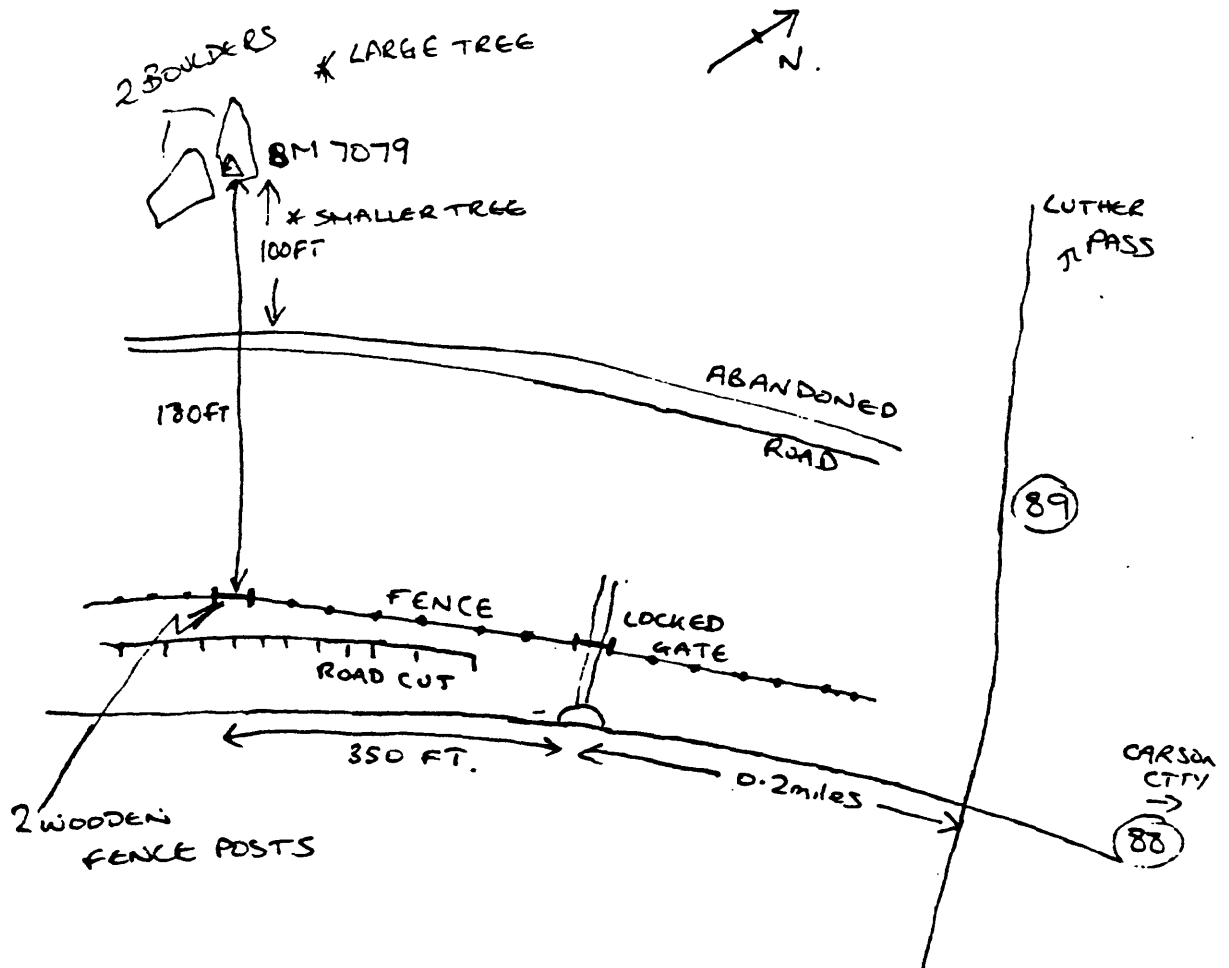
**Horizon mask:** < 15° in all directions..

**Description:** From Carson City drive 35.2 mi. east along highway US 50 to junction with ALT. US 95. Continue east on highway US 50 1.5 miles to railroad track. Turn left (northeast) on dirt road just after tracks and continue 0.45 miles. Mark is about 24 ft. south of southern rail of train tracks, and 54 ft. north of dirt road that parallels the train tracks.

**Sketch/Photos:**





**Point: A300****Name:** FREEL PEAK**Coordinates:** 38 46 38.099 -119 55 26.601 2134.52 m**Map:** Freel Peak, Calif. 1955, Photorevised 1969, Photoinspected 1980. 1:24,000  
Smith Valley Nevada - California. 1985. 1:100,000.**Access:** Open, 2WD.**Mark type:** Brass plaque set in concrete pier. USC&GS.**Inscription:** D183 1934**Reference marks:** None**On-site facilities:** None**Horizon mask:** Visibility obscured up to 40° in southwest and southeast directions. Tall tree due north.**Description:** From junction of Nevada highway 88 and US 395 (14.5 miles south of Carson City via US 395), go south then southwest on Nevada/Calif. 88 for 19.8 miles to junction with Calif. route 89 going north to Luther Pass (not junction with Calif. 89 going south). Continue 0.2 miles to locked gate on right (north) and then 350 feet further. Here there are two wooden posts in the fence at the top of the road cut. Cross the fence and go north 180 ft. Point is in smaller of two large boulders about 40 ft. southwest of tall tree. Point is invisible from highway because of road cut and large boulder.**Sketch/Photos:** Photos in map envelope.

**Point: B100**

**Name: OCALA**

**Coordinates: 39 59 43.368 -118 42 11.252 1429.27 m**

**Map: Ocala, Nev. Provisional edition 1986. 1:24,000  
Carson Sink, Nevada. 1979. 1:100,000.**

**Access: Open, 4WD for final 0.2 miles.**

**Mark type: Brass plaque set in concrete pier. Agency ??**

**Inscription: RAT NO 1 1957**

**Reference marks: None**

**On-site facilities: None**

**Horizon mask: < 15° in all directions.**

**Description: From the intersection of I80 and US 95 in Trinity, Nev. (about 34 mi. north of Fallon via US 95), go northeast on I80 for 2 mi. to side road right and gate. Go 0.4 mi. to fork. Take right fork and go 0.6 mi. to fork. Take left fork and go 1.3 mi. to road left. Turn left and go 0.5 mi., going under freeway through tunnels. Continue on road for 2 mi. Turn right cross-country - 4WD for 0.2 mi. to top of hill.**

**Sketch/Photos:**

**Point:** B200

**Name:** SODA LAKE WEST

**Coordinates:** 39 30 47.056 -118 56 19.606 1203.29 m

**Map:** Soda Lake West, Nev. Provisional edition 1985. 1:24,000  
Carson Sink, Nevada. 1979. 1:100,000.

**Access:** Open, 2WD

**Mark type:** Brass plaque on rod. USC&GS.  
Train track 30 m east of station.

**Inscription:** J 371 1967

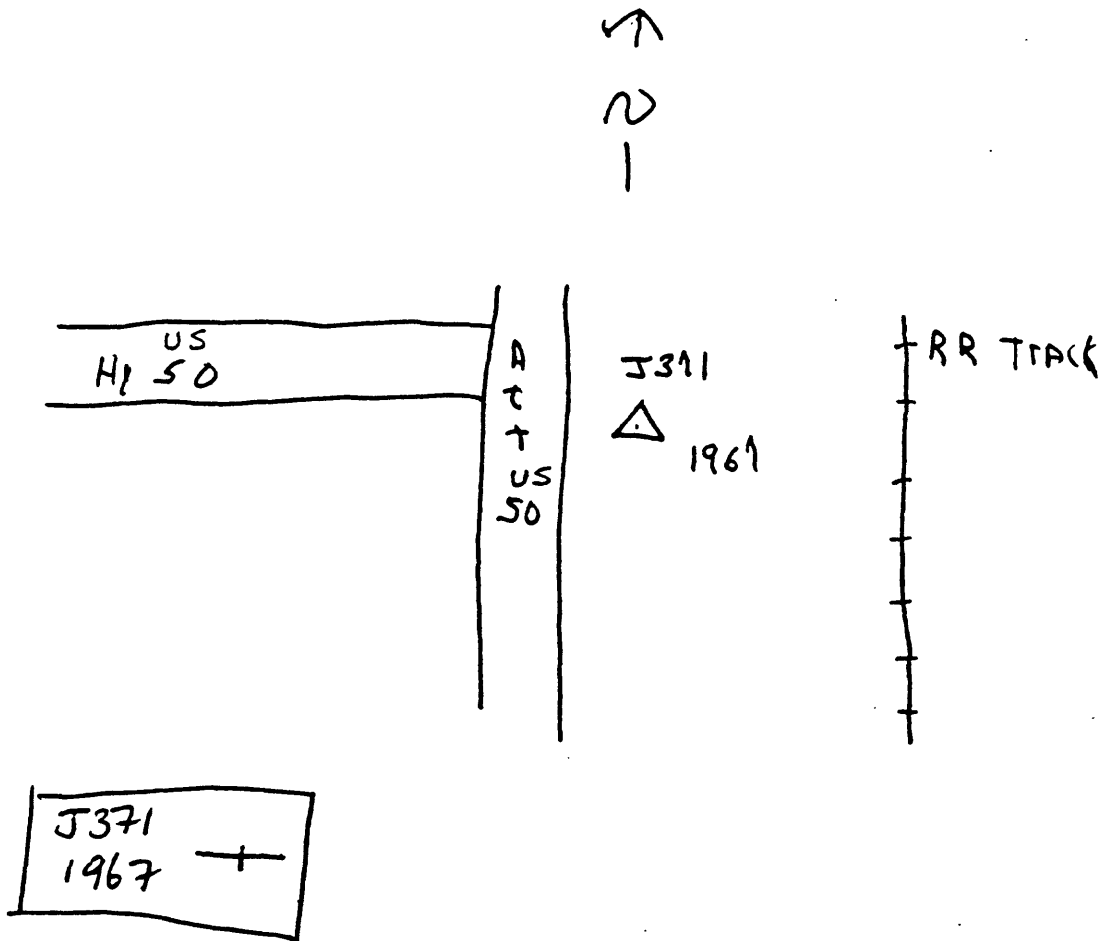
**Reference marks:** None

**On-site facilities:** None

**Horizon mask:** < 15° in all directions.

**Description:** Station is located at the junction of highway US 50 and ALT. US 50, about 10 miles northwest of Fallon, Nev. It is 30 ft. northeast of Highway US 50 and 22 ft. northwest of triangulation station "WYE".

**Sketch/Photos:**



**Point:** B210

**Name:** FALLON

**Coordinates:** 39 29 36.076 -118 52 2.806 1197.90 m

**Map:** Fallon, Nev. Provisional edition 1985. 1:24,000

Fallon, Nevada. 1979. 1:100,000.

**Access:** Open, 2WD when dry. Could get muddy when wet.

**Mark type:** Brass plaque set in concrete bridge abutment. USC&GS.  
10 feet from railroad track over small wash.

**Inscription:** E388 1955

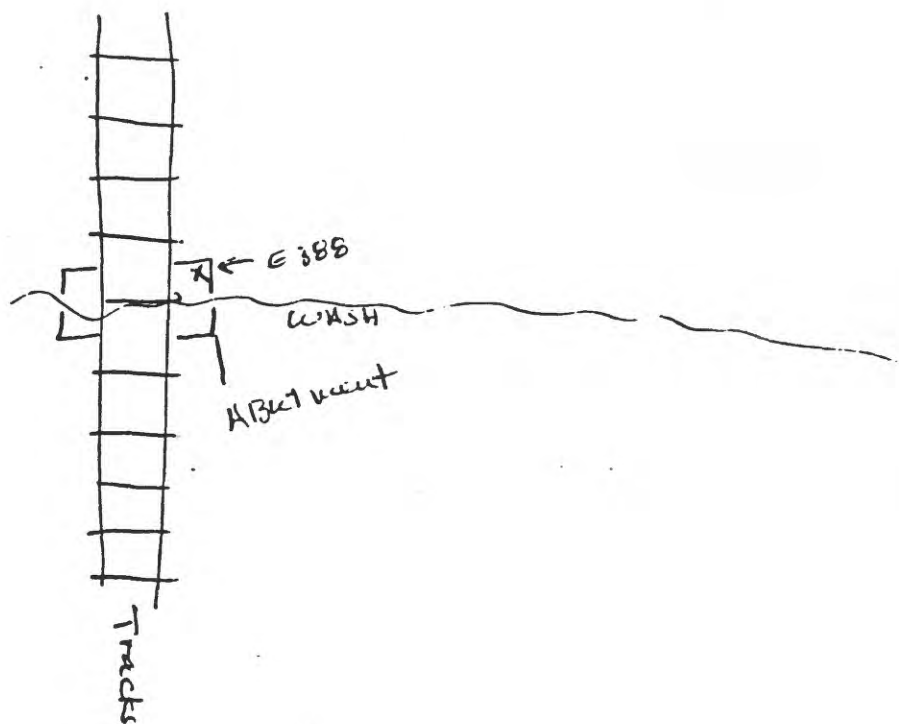
**Reference marks:** None

**On-site facilities:** None

**Horizon mask:** < 15° in all directions.

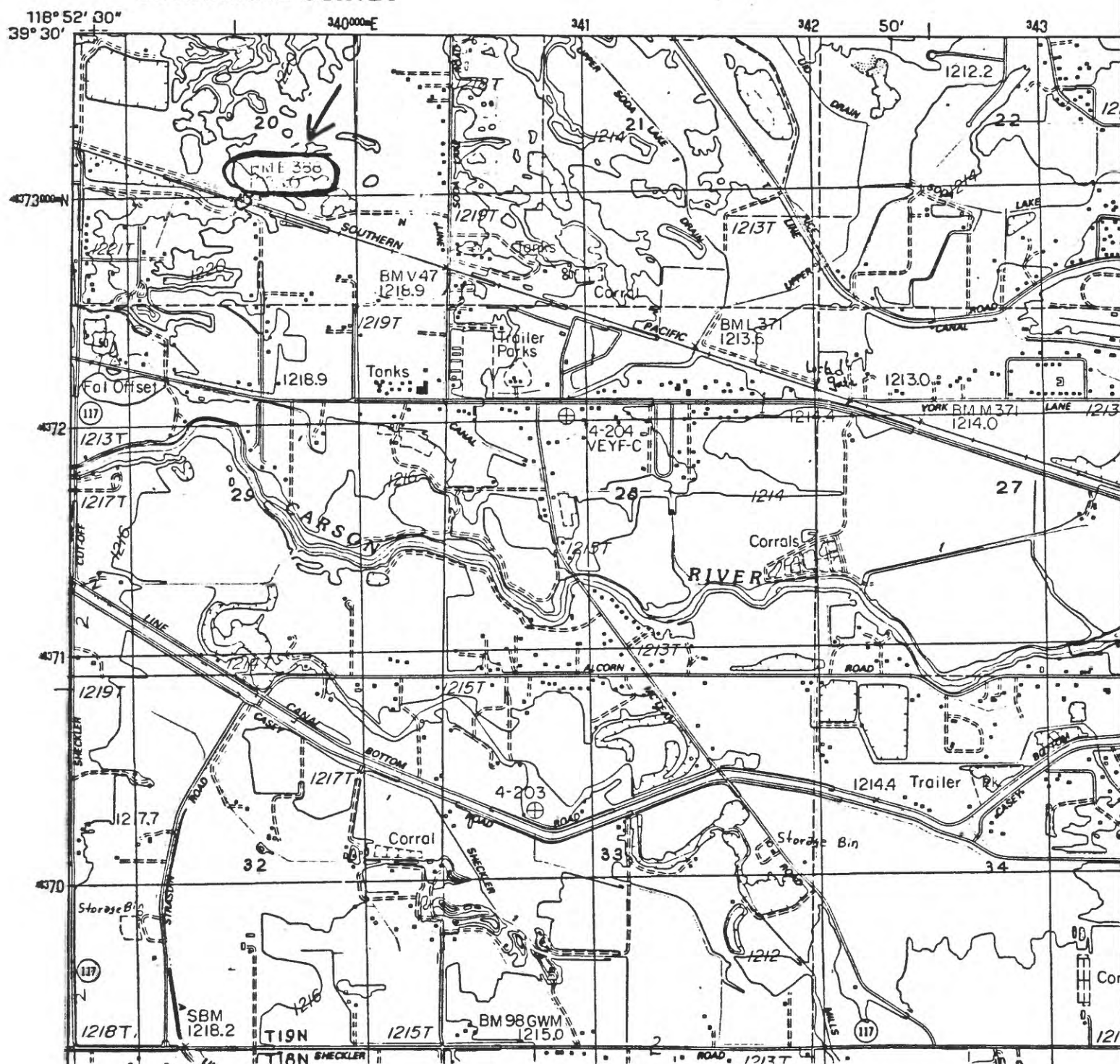
**Description:** ??? About 5 mi. northwest of Fallon on US 50, and about 0.5 mi. north of US 50 near train track.

**Sketch/Photos:**



**Point: B210 (continued)**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY



**Point:** B220

**Name:** GRIMES POINT

**Coordinates:** 39 23 51.443 -118 38 47.128 1175.59 m

**Map:** Grimes Point, Nev. Provisional edition 1985. 1:24,000  
Fallon, Nevada. 1979. 1:100,000.

**Access:** Open, 2WD. 4WD needed if pulling off shoulder.

**Mark type:** Brass plaque set in concrete pier, with witness post. USC&GS.  
Benchmark set in concrete block that projects 3 in. above ground surface.

**Inscription:** S383 1955

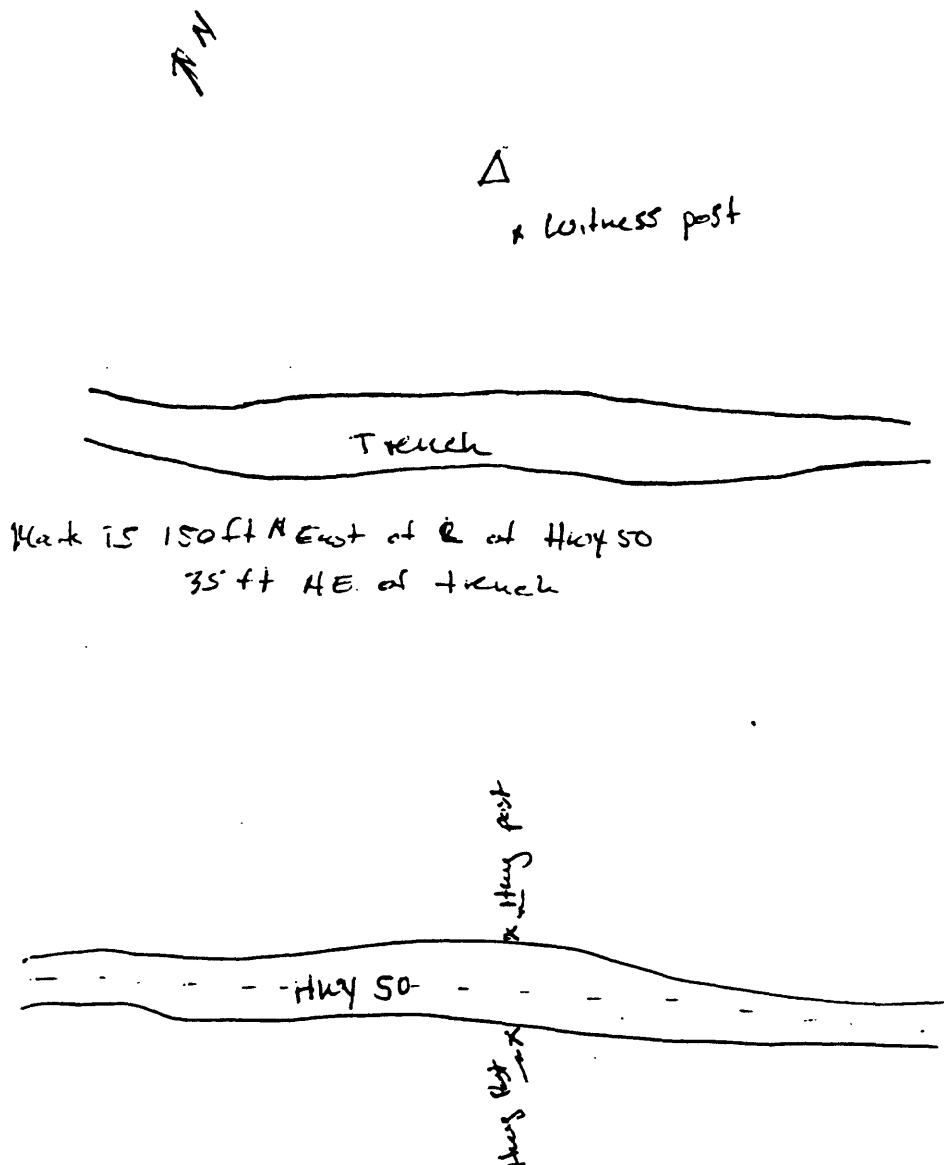
**Reference marks:** None

**On-site facilities:** None

**Horizon mask:** < 15° in all directions.

**Description:** From intersection of US 95 (Maine St.) and US 50 (Williams St.) in Fallon, go east on US 50 for 10.3 mi. to turnoff on left to Grimes Pt. archaeological site. Continue on US 50 another 0.4 mi. to marker on left side of road. Point is 135 ft. northeast of center line of US 50, and 35 ft. northeast of trench.

**Sketch/Photos:** Photo available in map envelope.



**Point: B230****Name:** FOURMILE FLAT**Coordinates:** 39 17 55.867 -118 28 19.302 1171.02 m**Map:** Fourmile Flat, Nev. 1972. 1:24,000

Fallon, Nevada. 1979. 1:100,000.

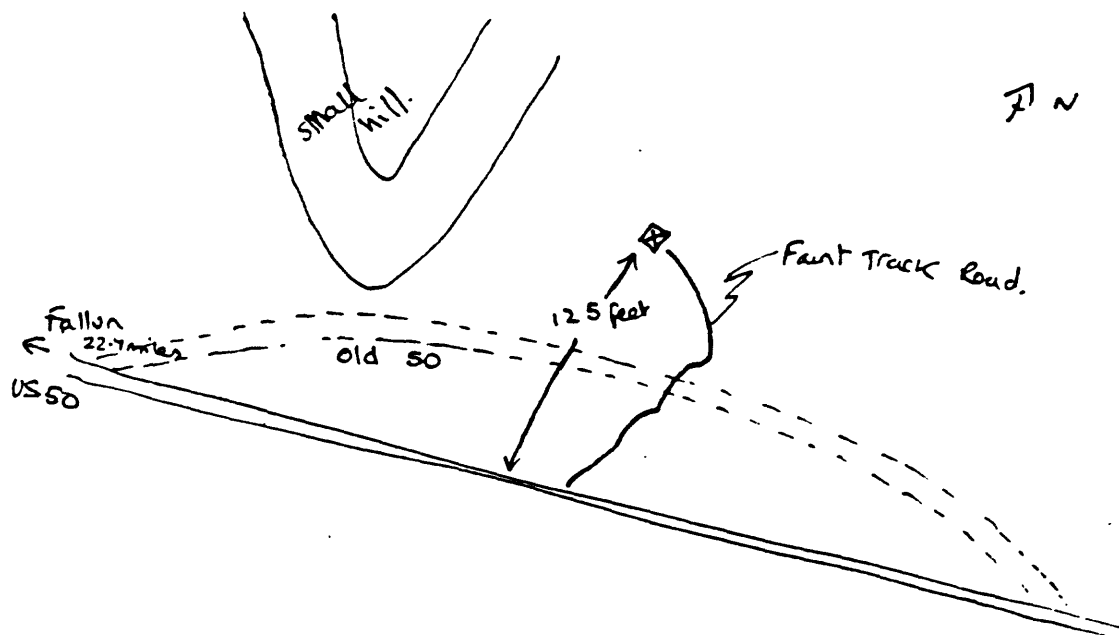
**Access:** Open, 2WD.**Mark type:** Brass plaque set in concrete pier. USC&GS.**Inscription:** W383 1955**Reference marks:** None**On-site facilities:** None**Horizon mask:** < 15° in all directions.**Description:** From junction in Fallon between highway US 50 (Williams St.) and US 95 (Maine St.), go east on US 50 for 22.65 miles.

Fallon/Williams intersection 0.0 miles

Grimes Point turnoff 10.1 miles


Point B230 22.65 miles

The mark is located 125 feet north of the old highway US 50 road, which runs parallel to present highway US 50 and about 100 feet north of it. (Sketch map seems to have this distance marked incorrectly. Description also incorrectly speaks of junction of US 50 and Williams St. in Fallon.)

**Sketch/Photos:**

**Point:** B250

**Name:** FRENCHMAN  
**Coordinates:** 39 16 25.717 -118 18 38.468 1278.88 m  
**Map:** Frenchman, Nev. 1972 (Photoinspected 1980). 1:24,000  
 Fallon, Nevada. 1979. 1:100,000.  
**Access:** Open, 2WD.  
**Mark type:** Brass plaque set in concrete pier. USC&GS.  
**Inscription:** GPS X46 1934 1988  
**Reference marks:** X46 NO 2 1953 - 23 feet east of the main mark.  
**On-site facilities:** None  
**Horizon mask:**  $< 15^\circ$  in all directions.  
**Description:** The point is near the junction of US 50 and Nevada highway 31, about 32 mi. east of Fallon via US 50. It is 135 feet west of Nevada 31 and 30 feet north of the edge of highway US 50.  
**Sketch/Photos:**

GPS	
X46	
1934	
1988	



**Point:** B270

**Name:** DRUMM SUMMIT

**Coordinates:** 39 17 10.112 -118 10 22.015 1365.57 m

**Map:** Drumm Summit, Nev. 1972. 1:24,000  
Fallon, Nevada. 1979. 1:100,000.

**Access:** Open, 2WD.

**Mark type:** Brass plaque set in concrete pier. USC&GS

**Inscription:** U46 1934

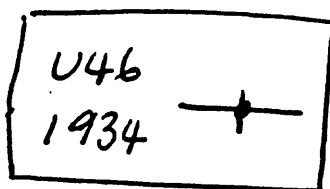
**Reference marks:** 2 reference points nearby.

**On-site facilities:** None

**Horizon mask:** < 15° in all directions.

**Description:** From the junction of highway US 50 and Nevada route 31 (about 32 mi. east of Fallon via US 50), go east on US 50 for 7.45 mi. The marker is 21 feet north of the edge of US 50.

**Sketch/Photos:**



**Point: B280**

**Name: WEST GATE**

**Coordinates: 39 16 29.252 -118 0 59.691 1408.13 m**

**Map: West Gate, Nev. 1972. 1:24,000  
Fallon, Nevada. 1979. 1:100,000.**

**Access: Open, 2WD.**

**Mark type: ??, with witness post. USC&GS.**

**Inscription: H381 RESET 1956**

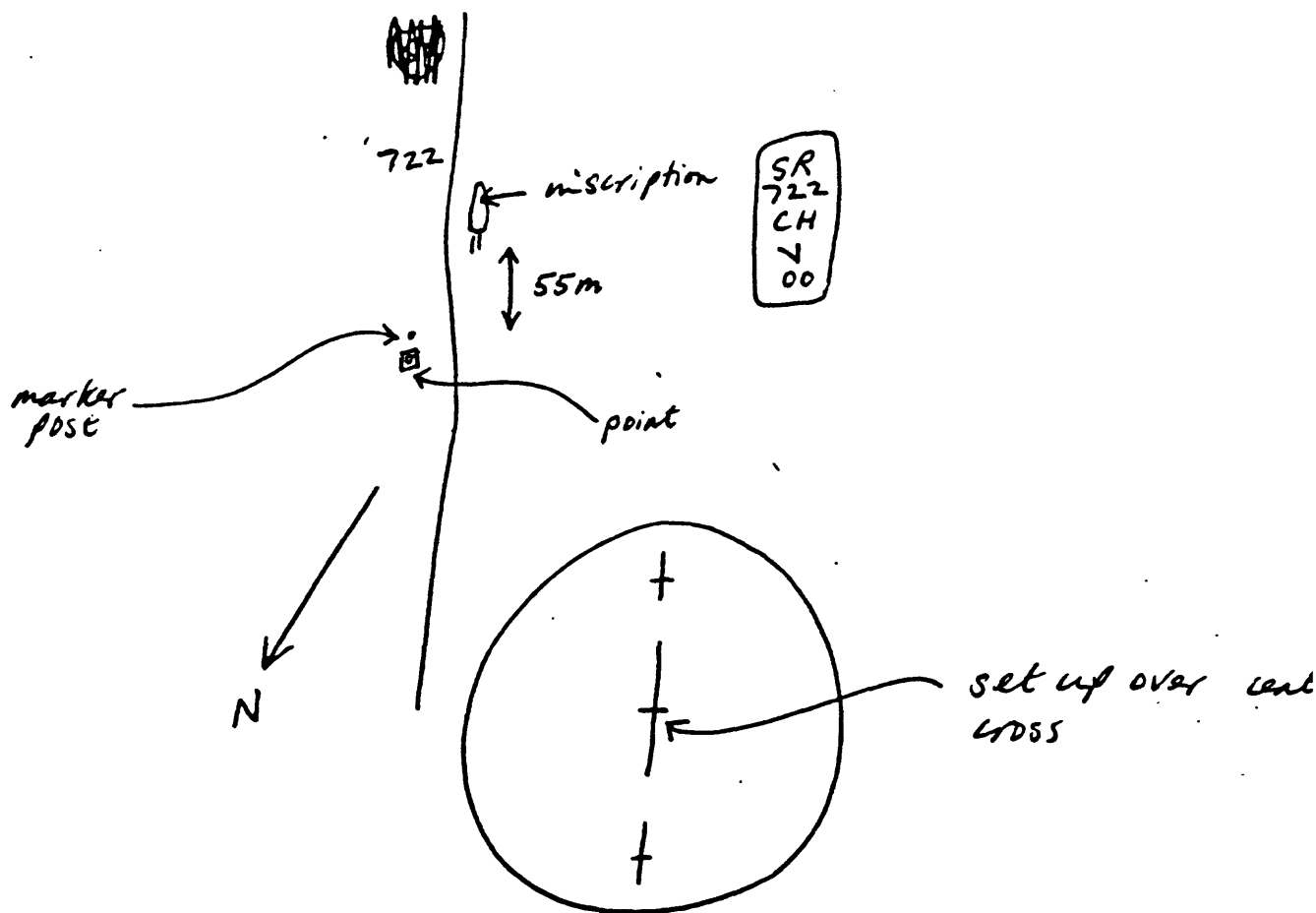
**Reference marks: None**

**On-site facilities: None**

**Horizon mask: < 15° in all directions.**

**Description: From intersection of Nevada highway 23 (USGS Quad)(highway 361 on Highway Dept. road maps) and US 50 (about 47 miles east of Fallon via US 50), go southeast on Nevada 23 for 1.2 miles. Point is about 100 feet west of road. Steel marker post adjacent.**

**Sketch/Photos:**

**Point: B290****Name:** DESATOYA PEAK**Coordinates:** 39 17 1.731 -117 51 33.137 1603.24 m**Map:** Desatoya Peak, Nev. 1969. 1:24,000  
Smith Creek Valley, Nevada. 1985. 1:100,000.**Access:** Open, 2WD.**Mark type:** Brass plaque set in concrete pier. USC&GS.  
Small concrete block in alluvium. Appears firm.**Inscription:** K46 1934**Reference marks:** None**On-site facilities:** None**Horizon mask:** < 15° in all directions.**Description:** From the junction of highways US 50 and Nevada 722 (approx. 57 miles east of Fallon via US 50), drive 7 miles southeast on Nevada 722. The point is 14 m east of the road in a 9" x 9" concrete block, projecting 6" above ground level. A 1 m high marker post (angle iron) is by the point. The point is 55 m before road marker SR-722-CH-700 (a white notice on the right hand (southwest) side of the road).**Sketch/Photos:**

**Point:** B300

**Name:** YERINGTON

**Coordinates:** 38 59 17.220 -119 14 38.799 1892.11 m

**Map:** Yerington, Nev. Provisional edition 1986. 1:24,000

Smith Valley, Nevada - California. 1985. 1:100,000.

**Access:** Open, 2WD. 4WD may be needed in wet weather. Locked gate. USGS key A389.

**Mark type:** Steel rod cemented into drill hole in rock. USGS.

**Inscription:** B300

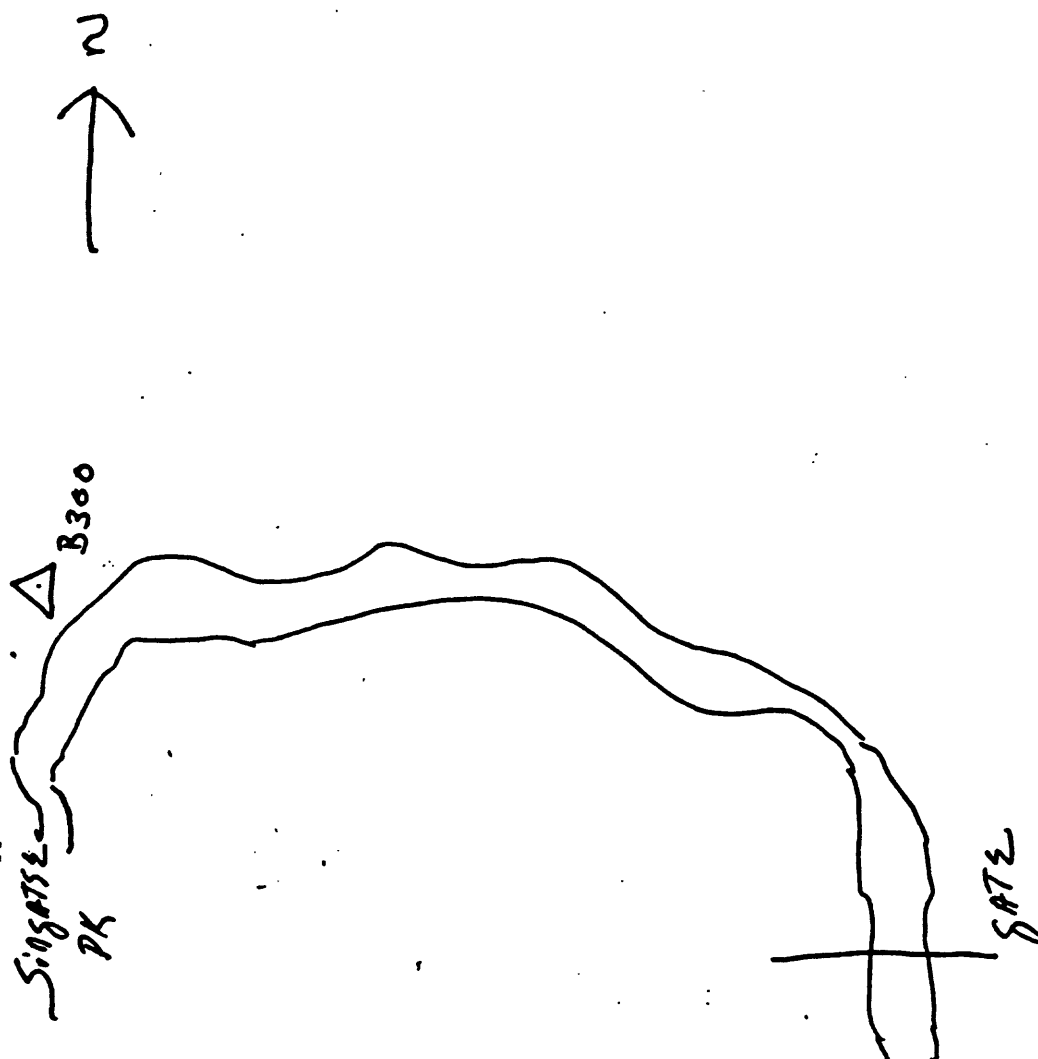
**Reference marks:** None

**On-site facilities:** None

**Horizon mask:** < 15° in all directions.

**Description:** From the intersection of highway ALT. US 95 and Weed Hts. Road, just northwest of Yerington, take Weed Hts. Road west for 1.1 miles to a stop sign at Mine Yard Office. Go straight for 0.6 miles to a stop sign. Turn left on Bonanza Street and continue for 0.1 miles to the end of houses. Turn right and continue for 0.1 miles to the end of pavement. Turn hard right on main dirt road and continue for 2.3 miles. Turn right and continue for 0.3 miles to a gate. Pass through the gate and continue for 0.6 miles. Station is 30 m north of road in rock outcrop, 200 m north of Singatse Pk. It is a 3/4-inch steel rod, set in a drill hole in rock, stamped B300. A radio antenna is about 200 m south of station.

**Sketch/Photos:** Photos available in map envelope



**Point: C100****Name:** NEW PASS WELL**Coordinates:** 39 41 8.695 -117 30 31.919 1767.16 m**Map:** New Pass Well, Nev. Provisional edition 1990. 1:24,000

Edwards Creek Valley, Nevada. 1983. 1:100,000.

**Access:** Open, 2WD.**Mark type:** Steel rod cemented into limestone outcrop. USGS/JPL.**Inscription:** 3205 S**Reference marks:** None**On-site facilities:** None**Horizon mask:** < 15° in all directions.**Description:** From junction of US 50 and Nevada 722 (about 57 mi. east of Fallon via US 50), follow US 50 east. Mileage log:

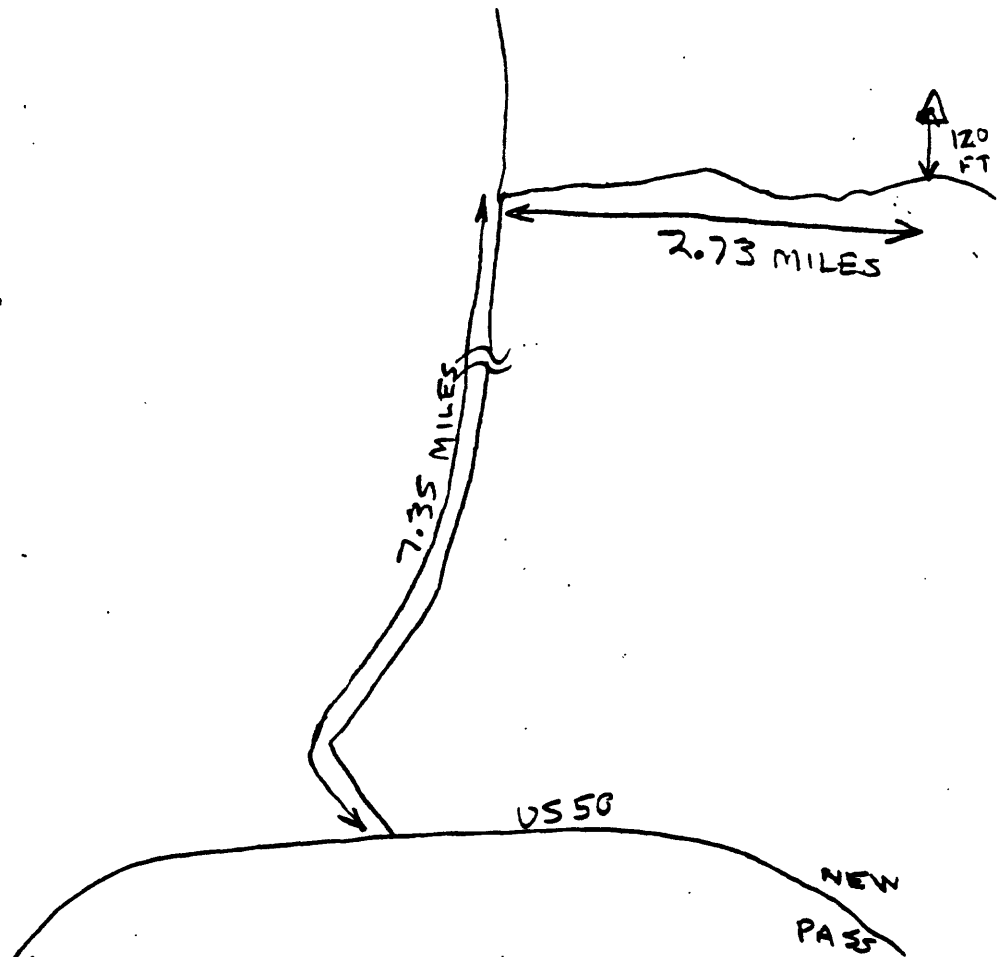
US 50 - NV 722 junction 0.0

Cold Springs Maint. Sta. (gas, food, phone) 10.6

Historical Marker III (Edwards Creek Valley) 21.4

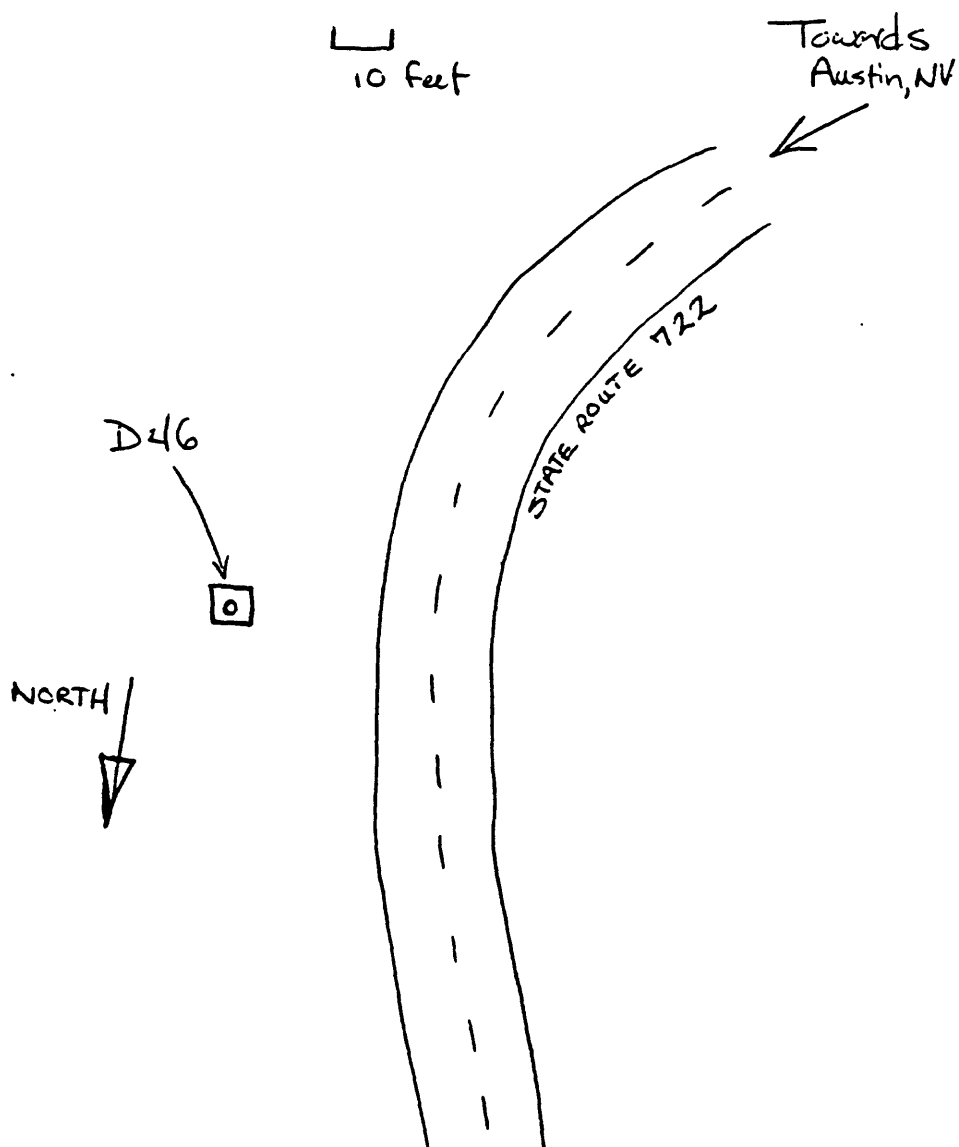
Cattle guard at southward bend 28.7

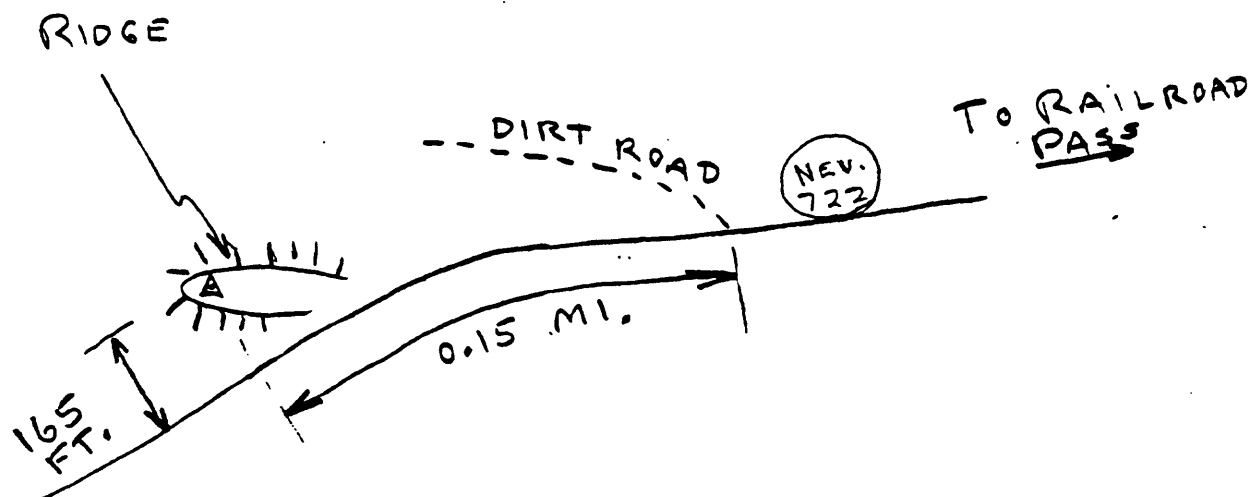
Turnoff (signpost "Antelope") 29.9

Turn off to north. Go 7.35 miles along graded dirt road and turn right (east) on 4WD road. At 2.4 miles, cross dry wash. At 2.73 miles, stop at light colored limestone outcrop in road. Station is 120 feet due north (true), about 10 feet southeast of a pinyon tree. See photos of parking place and point. Point is 40 m from parking place. In NE 1/4 of SW 1/4 of T21N, R40E.**Sketch/Photos:** Photos available in map envelope

**Point: C200****Name:** CAROLL SUMMIT**Coordinates:** 39 15 49.378 -117 42 42.081 2156.57 m**Map:** Carroll Summit, Nev. 1969. 1:24,000  
Smith Creek Valley, Nevada. 1985. 1:100,000.**Access:** Open, 2WD, adjacent to paved road.**Mark type:** Brass plaque set in concrete pier flush with ground surface. NGS.**Inscription:** D46 1934**Reference marks:** None**On-site facilities:** None**Horizon mask:** < 20° in all directions.**Description:** From junction of highways US 50 and Nevada 722 (about 57 mi. east of Fallon via US 50), drive east towards Austin on Nevada 722 for 16.7 miles to Carroll Summit. Continue east for 0.9 miles to BM on right side of road. BM is 21 feet east of pavement in a concrete pier. A standard orange NGS witness post is just north of the pier.

NOTE: Nevada highway 722 is called highway 2 on topographic map.

**Sketch/Photos:** Photo available in map envelope

**Point: C220****Name:** IRON MOUNTAIN**Coordinates:** 39 21 27.520 -117 24 41.433 1899.16 m**Map:** Iron Mountain, Nev. 1969. 1:24,000  
Smith Creek Valley, Nevada. 1985. 1:100,000.**Access:** Open, 2WD.**Mark type:** Brass plaque set in concrete in depression in rock. USC&GS.  
Point firm in bedrock.**Inscription:** CLIFF 1954**Reference marks:** None**On-site facilities:** None**Horizon mask:** < 15° in all directions.**Description:** From intersection of US 50 and Nevada 722 (highway 2 on some USGS maps), about 3 miles west of Austin via US 50, go southwest on Nevada 722 for 18.7 miles. Point is about 165 feet northwest of center of highway, on outcrop of tuff. Point is 1.1 miles west of Railroad Pass and 0.15 miles west of dirt road on north side of highway. Monument is bronze disk cemented to rock. Good condition. Cairn built over monument.**Sketch/Photos:** Photo available in map envelope.

**Point:** C240

**Name:** WEST OF AUSTIN

**Coordinates:** 39 29 11.815 -117 8 32.347 1743.63 m

**Map:** West of Austin, Nevada. Provisional edition 1988. 1:24,000

Smith Creek Valley, Nevada. 1985. 1:100,000.

**Access:** Open, 2WD.

**Mark type:** Broass plaque set in concrete pier. USC&GS.

Excellent condition.

**Inscription:** USC&GS AZIMUTH MARK REESER. NE BASE 1954

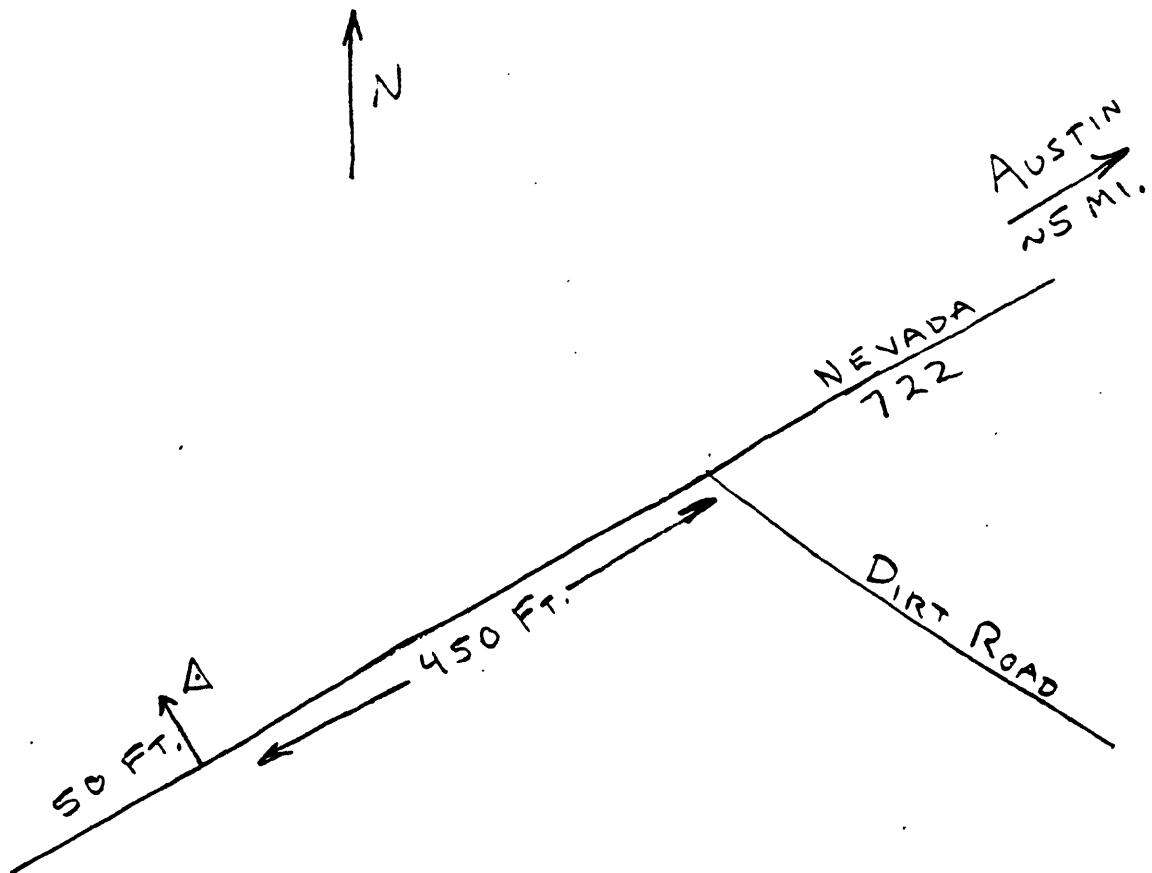
**Reference marks:** None

**On-site facilities:** None

**Horizon mask:** < 15° in all directions.

**Description:** From intersection of US 50 and Nevada 722 (highway 2 on some USGS maps), about 3 miles west of Austin via US 50, go southwest on Nevada 722 for 1.5 miles. Point is about 50 feet northwest of center of highway and about 450 ft. southwest of intersection of dirt road to the southeast. Point is marked by orange plastic marker post about 5 feet high. In NE 1/4 of section 28, T19N R43E.

**Sketch/Photos:**





**Point:** C260

**Name:** SIMPSON PARK CANYON

**Coordinates:** 39 24 7.902 -116 56 30.130 1817.90 m

**Map:** Simpson Park Canyon, Nevada. Provisional edition 1989. 1:24,000  
Summit Mountain, Nevada. 1978. 1:100,000.

**Access:** Open, 2WD.

**Mark type:** Brass plaque set in concrete pier. USC&GS

**Inscription:** FRONTIER 1954

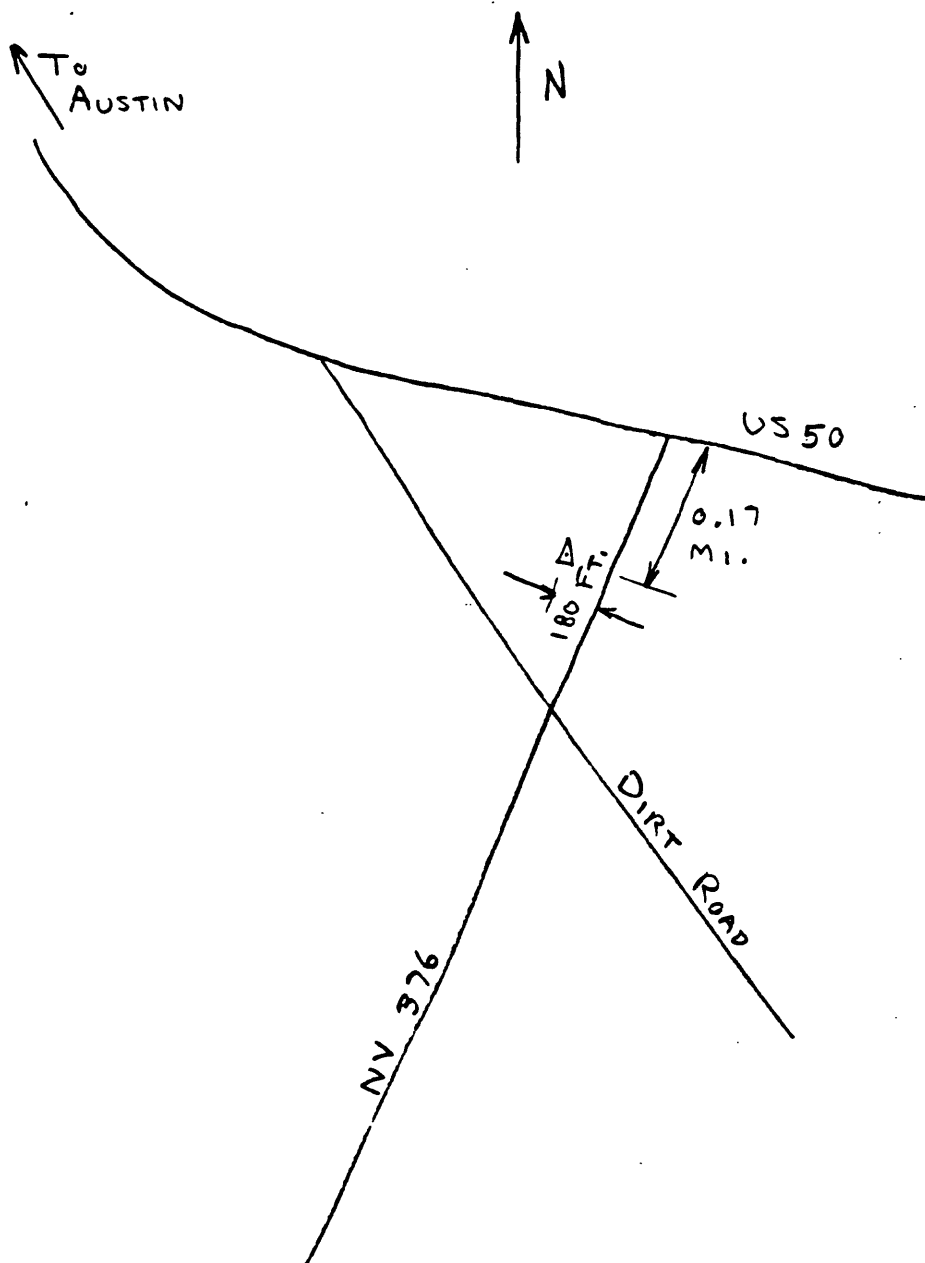
**Reference marks:** FRONTIER >-|-> NO. 1 1954 (approx. 11 m from main station at N20°E).  
FRONTIER >-|-> NO. 2 1954 (approx. 14 m from main station at N290°E).

**On-site facilities:** None

**Horizon mask:** < 15° in all directions.

**Description:** From junction of US 50 and Nevada 376 (about 12 miles east of Austin via US 50), go SSW on Nevada 376 for 0.17 miles. Point is 180 feet WNW of center of highway.

**Sketch/Photos:**



**Point:** C280

**Name:** JACKRABBIT SPRING

**Coordinates:** 39 28 36.434 -116 37 16.794 1898.54 m

**Map:** Jackrabbit Spring, Nevada. Provisional edition 1989. 1:24,000  
Summit Mountain, Nevada. 1978. 1:100,000.

**Access:** Open, 2WD.

**Mark type:** Brass plaque set in concrete pier. USC&GS.

**Inscription:** BENCHMARK R42 RESET 1958

**Reference marks:** None

**On-site facilities:** None

**Horizon mask:** < 15° in all directions.

**Description:** On US 50, 1.47 miles west of Lander-Eureka County line, and 21.5 miles east of junction of Nevada 376 with US 50 (about 12 miles east of Austin via US 50). Point is about 110 feet south of center of US 50, on road cut about 15 feet high.

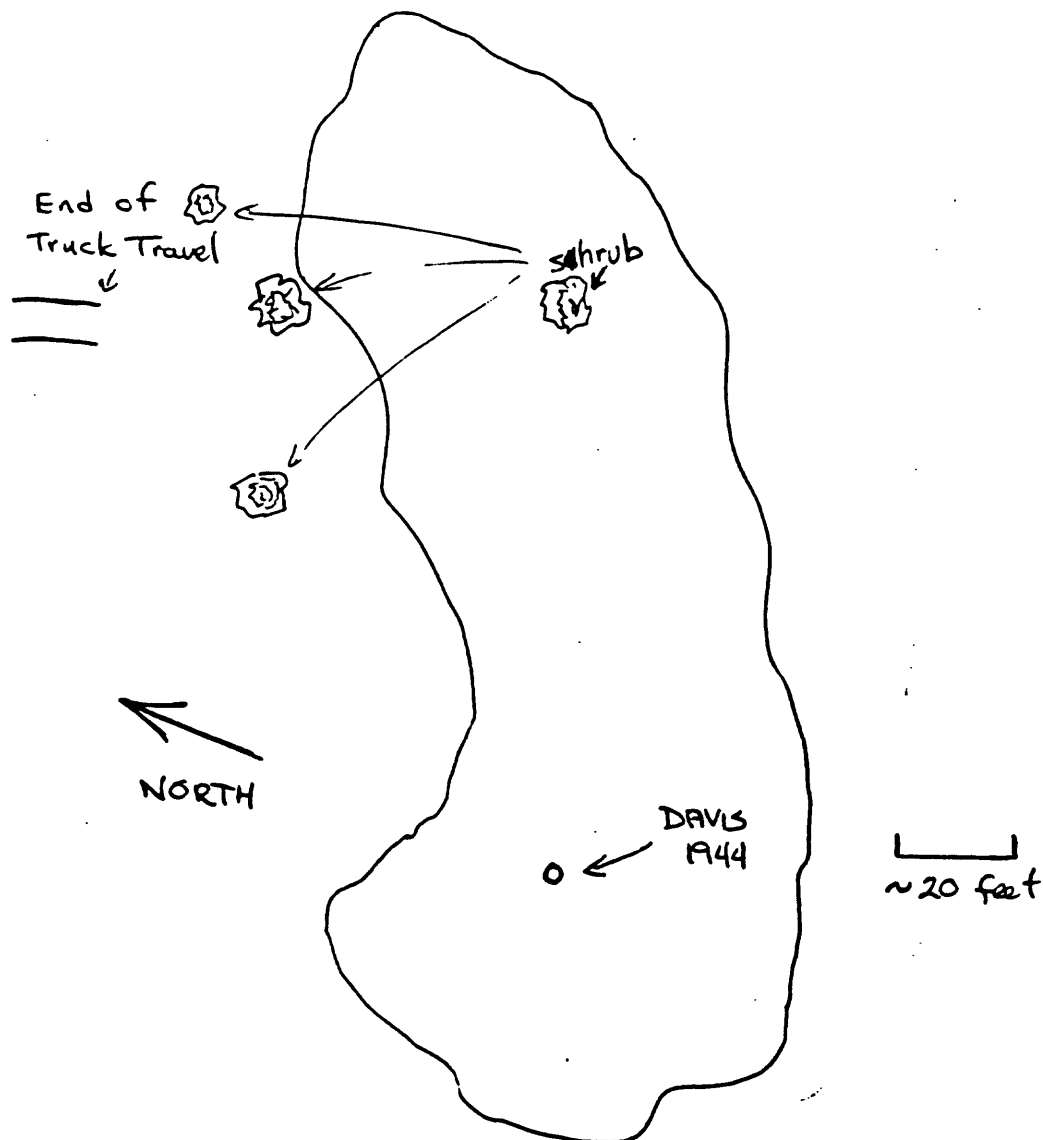
**Sketch/Photos:**

**Point: C300****Name:** GABBS**Coordinates:** 38 45 35.720 -117 53 2.121 1943.59 m**Map:** Gabbs, Nevada. Provisional edition 1988. 1:24,000

Ione Valley, Nevada. 1985. 1:100,000.

**Access:** 4WD, rough, rocky steep road/wash. Steep uphill hike on rocky slope 100 m.**Mark type:** Brass plaque cemented into drill hole in rock. USGS.**Inscription:** DAVIS 1944**Reference marks:** None**On-site facilities:** None**Horizon mask:** < 15° in all directions.

**Description:** From Gabbs, head south on highway Nevada 361 for about 1 mile to dirt side road on left (east) (just across from airstrip). Turn left and proceed southeast about 40 m. to a cattle guard. Continue 1.3 miles to power line and crossroads, continue straight towards canyon and onto dry wash for 4.1 miles to "Y" junction. Keep right towards Willow Springs for 1.1 miles, then turn left uphill to the old mine buildings. Continue uphill past mine buildings 0.4 miles to end of truck travel. Bench mark "DAVIS" is at the top of the hill in a direction south of the end of truck travel. Station is a USGS RM Bench mark.

**Sketch/Photos:** Photos available in map envelope.

**Point:** **D100**

**Name:** MINERAL HILL SW

**Coordinates:** 40 5 1.052 -116 9 39.097 1842.49 m

**Map:** Mineral Hill SW. Nevada, Provisional edition 1986. 1:24,000  
Crescent Valley, Nevada. 1987. 1:100,000.

**Access:** 4WD advisable.

**Mark type:** Stainless steel rod cemented into drill hole in rock. USGS/JPL.

**Inscription:** 3206 S

**Reference marks:** None

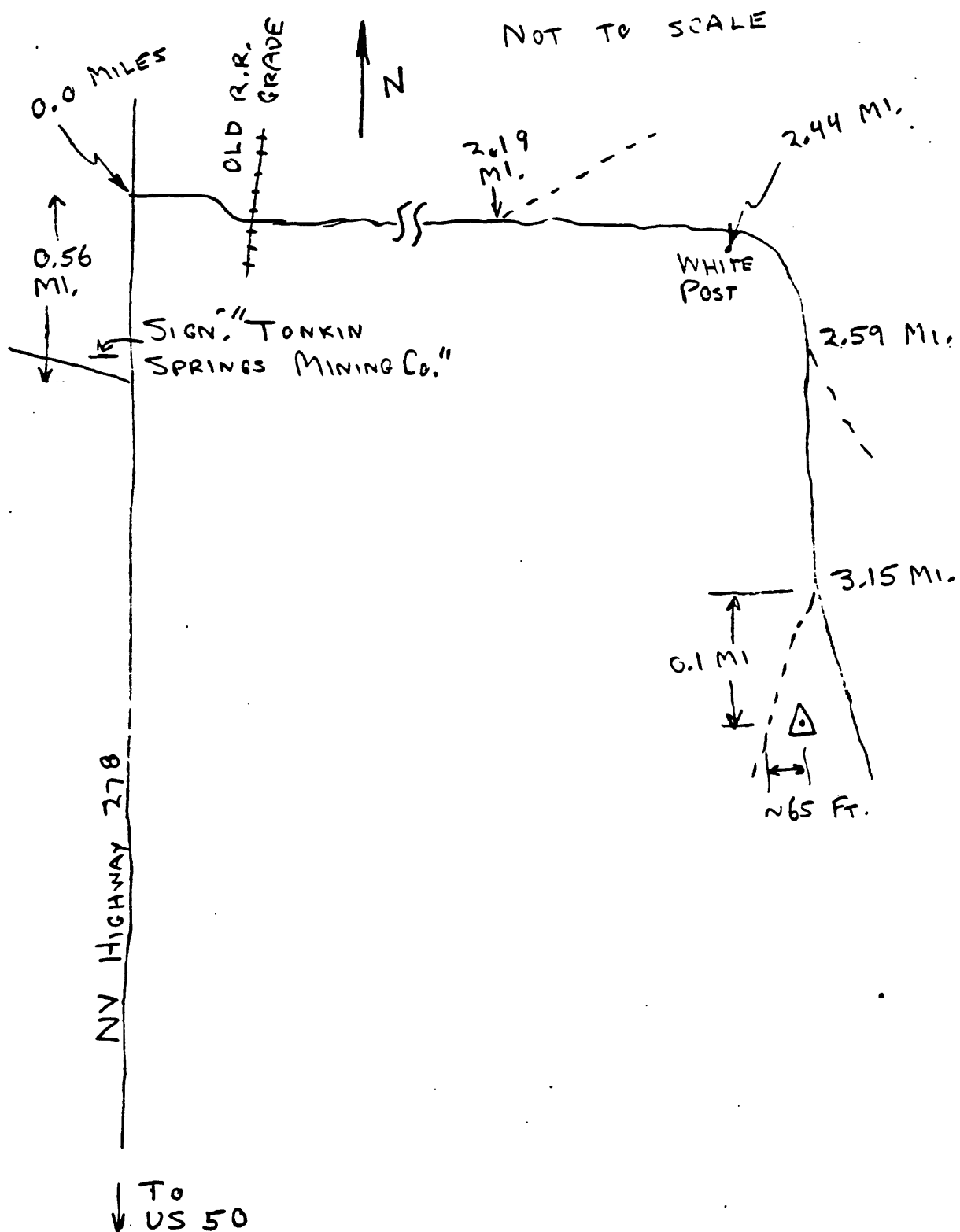
**On-site facilities:** None

**Horizon mask:** Visibility obscured up to about 25° for small ranges in south and east. Tree obscures horizon up to about 40° in north. Otherwise < 15°.

**Description:** From junction of US 50 and Nevada 278 (about 3 miles west of Eureka via US 50), go north on Nevada 278 for 39.6 miles to junction of road to west. (Sign: "Tonkin Springs Gold Mining Co." readable from north side). Bullet-marked highway sign: "JD Ranch, Buckhorn, Cortez". Continue north on Nevada 278 for 0.56 miles more and turn right (east) on dirt road. Go east for 3.15 miles and then follow track on right (west) for 0.1 miles more to point. Monument is in basalt outcrop about 65 feet east of track. Cairn was built over point after Oct. 1992 measurements.

**Sketch/Photos:** Photos available in map envelope.

Point: D100 (continued)



**Point:** D200

**Name:** BARTINE RANCH

**Coordinates:** 39 32 1.359 -116 18 22.787 1830.30 m

**Map:** Bartine Ranch, Nevada. Provisional edition 1986. 1:24,000

Simpson Park Mountains, Nevada. 1979. 1:100,000.

**Access:** 2WD.

**Mark type:** Brass plaque set in concrete pier. USC&GS.

**Inscription:** U44

+

1934

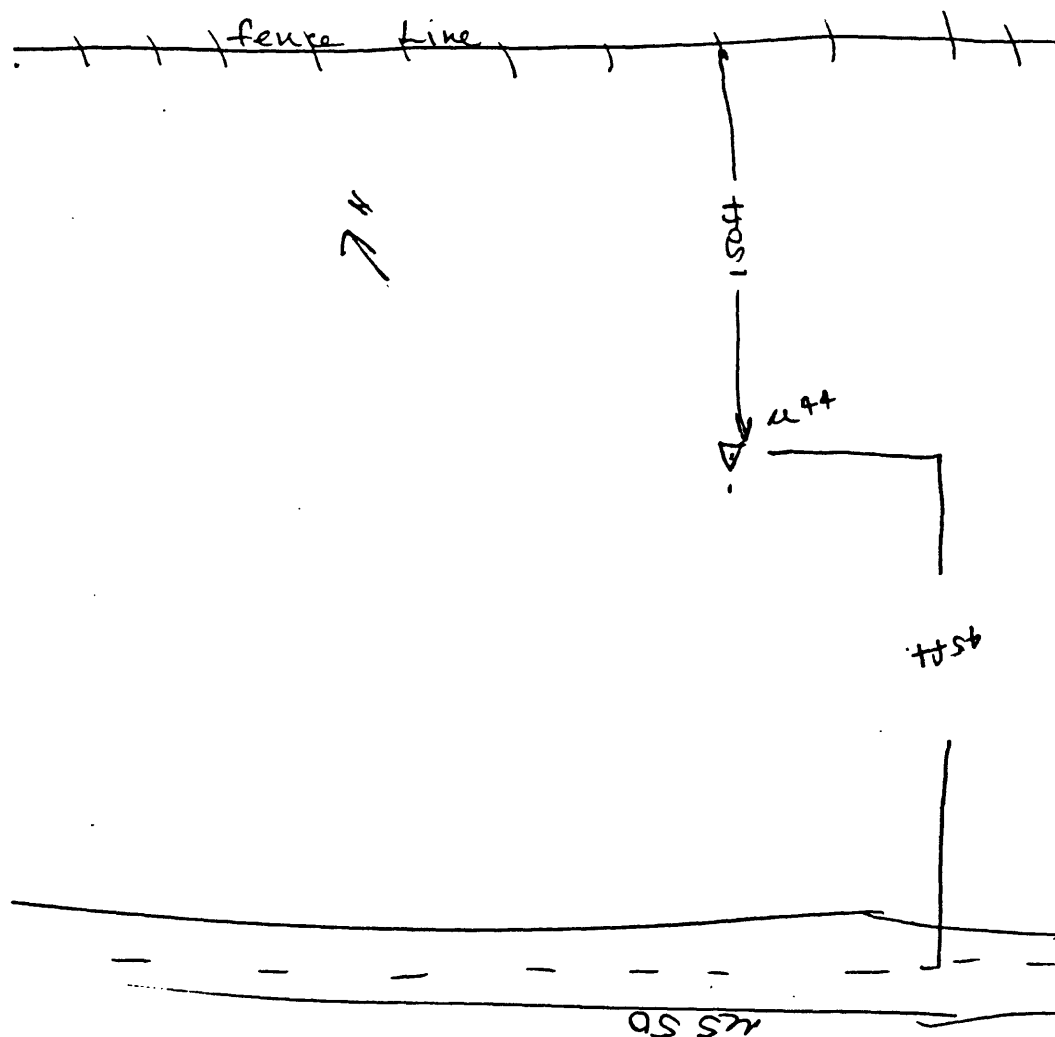
**Reference marks:** None

**On-site facilities:** None

**Horizon mask:** < 15° in all directions.

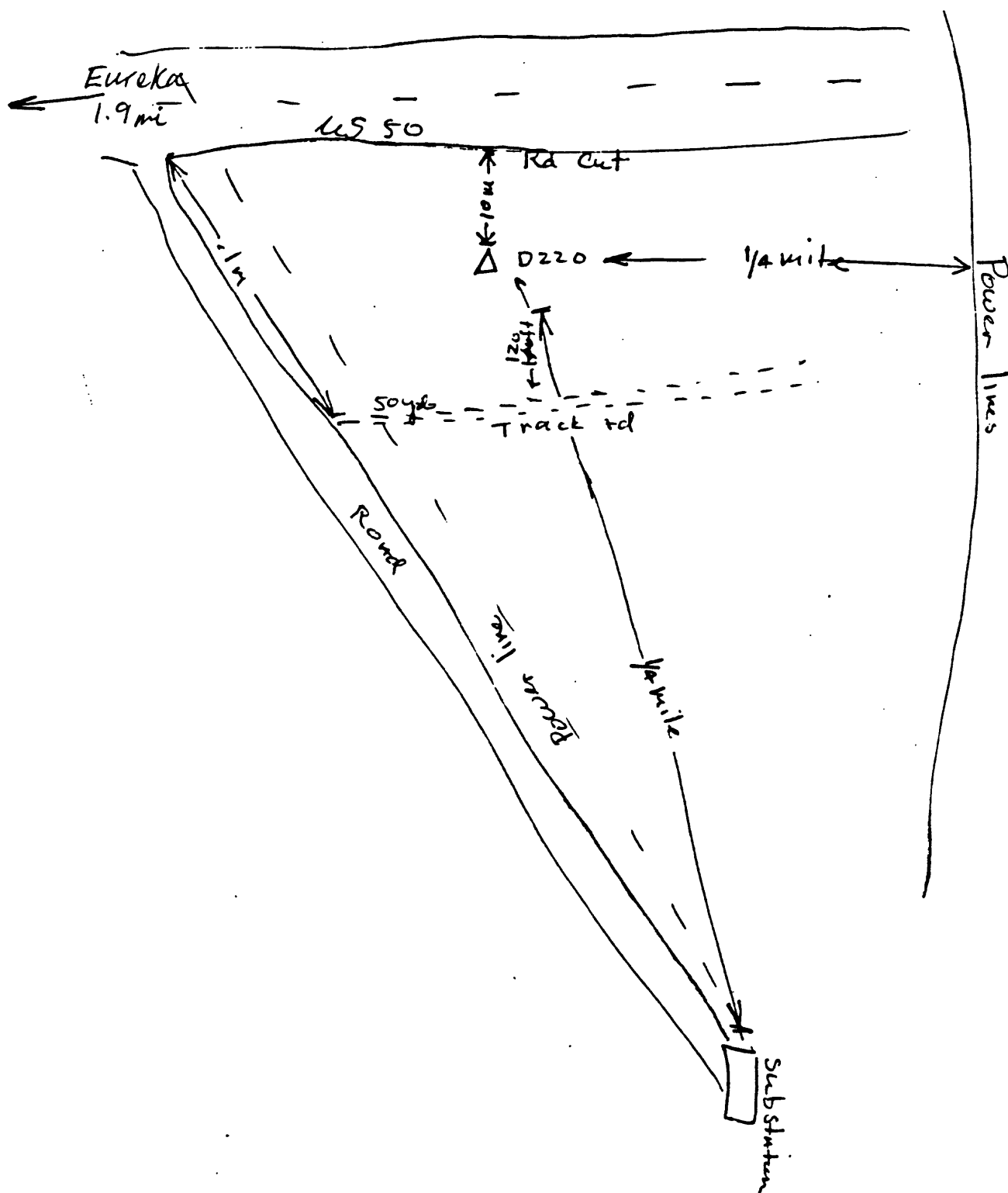
**Description:** From junction of US 50 and Nevada 278 (about 3 miles west of Eureka via US 50), go west on US 50 for 16.3 miles to junction with dirt road signposted "Antelope". Continue west on US 50 for 1.64 miles to point. Point is about 45 feet north of center of US 50. Rectangular excavation, visible from highway, is immediately north of fence about 200 feet north of highway.

**Sketch/Photos:** Photo available in map envelope.



**Point: D220****Name:** EUREKA**Coordinates:** 39 32 35.372 -115 58 33.811 1914.36 m**Map:** Eureka, Nevada. Provisional edition 1990. 1:24,000  
Newark Lake, Nevada. 1985. 1:100,000.**Access:** 2WD.**Mark type:** Brass plaque set in concrete pier. USC&GS.**Inscription:** N44 1954**Reference marks:** None**On-site facilities:** None**Horizon mask:** < 15° in all directions.**Description:** From the Eureka Justice Facility in Eureka go northwest on US 50 for 1.9 miles to road cut on right (northeast). Mark is 6 m above US 50 and halfway between 2 sets of power lines. Substation is 0.25 miles northeast.Alternative. From the Eureka Justice Facility on the west end of town, go west on US 50 for 1.9 miles to side road right leading to substation. Turn right and go 0.1 miles to track road left. Take track road for about 100 yards. Mark is off to your left about 120 feet. This will get you off US 50 up above the road cut.**Sketch/Photos:** Photos available in map envelope.

Point: D220 (continued)



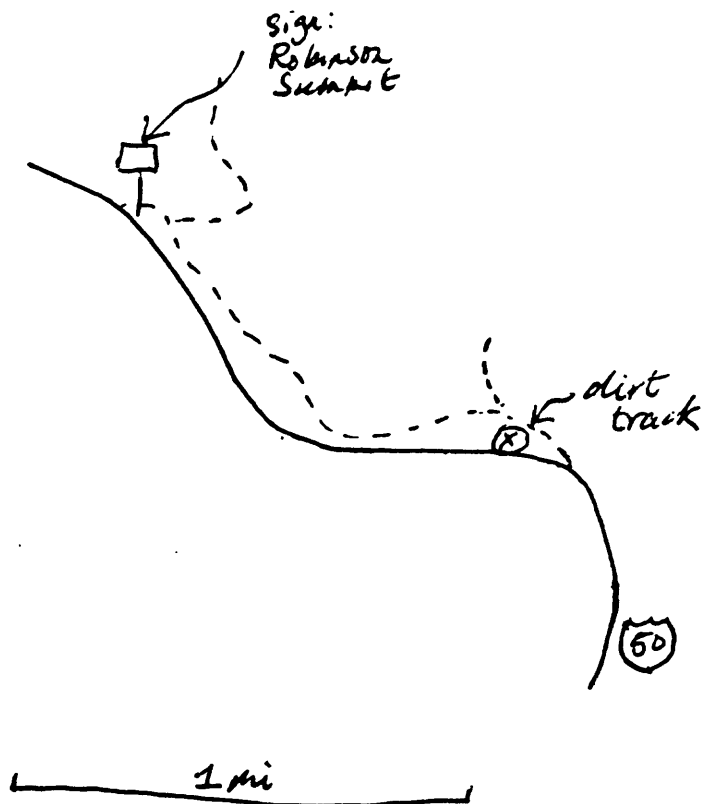


**Point: D240**

**Name:** SILVERADO MOUNTAIN  
**Coordinates:** 39 22 49.993 -115 47 56.617 1791.41 m  
**Map:** Silverado Mountain, Nevada. Provisional edition 1990. 1:24,000  
 Mt. Hamilton, Nevada. 1979. 1:100,000.  
**Access:** 2WD.  
**Mark type:** Brass plaque set in concrete pier. USC&GS.  
**Inscription:** C44 1934  
**Reference marks:** None  
**On-site facilities:** None  
**Horizon mask:** < 15° in all directions.  
**Description:** From the intersection of US 50 and highway 892 (about 10 mi. east of Eureka, or 60 mi. west of Ely, via US 50), go east on US 50 for 1.4 miles to station on south side of US 50. Set in concrete 9" x 9" block about 20 m south of center line of US 50. Fence line is 40 m south of mark. Phone line is 30 m south of mark. Just west of a dirt road right (south) and culvert under US 50.  
**Sketch/Photos:** Photos available in map envelope.

**Point: D260**

**Name:** EAST OF PANCAKE SUMMIT  
**Coordinates:** 39 24 7.728 -115 33 20.705 1956.12 m.  
**Map:** East of Pancake Summit, Nevada. Provisional edition 1990. 1:24,000  
 Mt. Hamilton, Nevada. 1979. 1:100,000.  
**Access:** Open. 2WD.  
**Mark type:** Bronze plaque set in square concrete pier. USC&GS.  
**Inscription:** V43 1934  
**Reference marks:** None  
**On-site facilities:** None  
**Horizon mask:** < 15° in all directions.  
**Description:** From intersection of US 50 and Nevada highway 892 (about 15 mi. east of Eureka, or 59.5 mi. west of Ely, via US 50) go east on US 50 for 15.7 miles. Mark is on right, 15 m. south of center of US 50, and 40 m. north of fence line.  
**Sketch/Photos:** Photo available in map envelope.

**Point: D280****Name:** ROBINSON SUMMIT**Coordinates:** 39 24 54.717 -115 4 53.596 2278.54 m**Map:** Robinson Summit, Nevada. Provisional edition 1990. 1:24,000  
Mt. Hamilton, Nevada. 1979. 1:100,000.**Access:** 2WD.**Mark type:** Brass plaque set in concrete pier. USC&GS.**Inscription:** D43 RESET 1954**Reference marks:** None**On-site facilities:** None**Horizon mask:** < 15° in all directions.**Description:** From Robinson Summit (about 20? mi. west of Ely on US 50), take dirt road at summit sign northerly to fork. Go right (east) for 0.2? miles to station on right. Mark is 20 m south of dirt road, 30 m north and 10 m lower than US 50.**Sketch/Photos:** Photo available in map envelope.

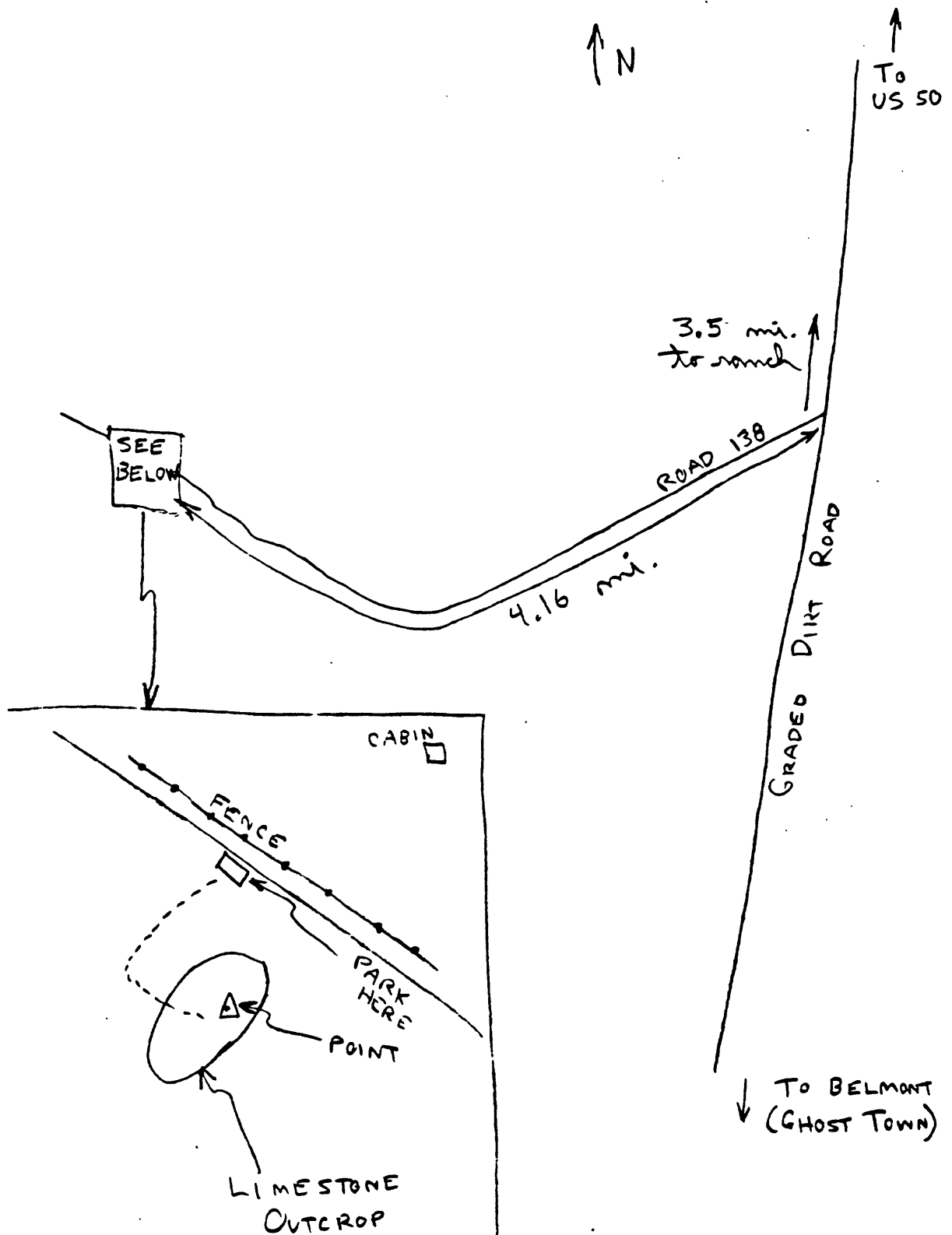
**Point: D300****Name:** DIANAS PUNCH BOWL**Coordinates:** 39 3 22.175 -116 44 44.345 2347.83 m**Map:** Dianas Punch Bowl, Nevada. Provisional edition 1989. 1:24,000  
Summit Mtn. Nevada. 1978. 1:100,000.**Access:** 4WD desirable. High clearance vehicle required.**Mark type:** Stainless steel rod cemented into drill hole in rock. USGS/JPL.**Inscription:** 3207 S**Reference marks:** None**On-site facilities:** None**Horizon mask:** < 20° in all directions.**Description:** Western approach: From junction of US 50 and Nevada 376 (about 12 miles east of Austin via US 50), go south 0.3 miles on Nevada 376 and turn left (southeast) on graded dirt road. Continue 24.5 miles to intersection near ranch in Monitor Valley. Turn right.Eastern approach: From intersection of US 50 and graded dirt road to Belmont (about 33 miles west of Eureka via US 50), go south on dirt road toward Belmont. After 24.6 miles bear right (west) at fork and continue 0.7 miles to intersection near ranch.

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From intersection near ranch, continue south. **LOOK OUT FOR SPEED BUMPS AT RANCH!!** After 3.75 miles bear right (west) at fork and continue 2.62 miles. Turn right onto road (post labeled 138) and go 4.16 miles. Park on left beneath limestone outcrop. (Abandoned cabin across stream to north). Point is in limestone outcrop about 100 feet south of and about 30 feet above road. Batteries must be carried up 30-40 ft. outcrop.

**Sketch/Photos:** Photos available in map envelope.

Point: D300 (continued)



**Point:** E100

**Name:** CHERRY SPRING

**Coordinates:** 39 54 6.011 -114 39 7.044 2435.76 m

**Map:** Cherry Spring, 19??, 1:24,000

Kern Mountains, Nevada-Utah. 1988. 1:100,000

**Access:** Open, 4WD. Probably impassable in wet weather.

**Mark type:** Stainless steel rod cemented into drill hole in rock. USGS.

**Inscription:** E100

**Reference marks:** None

**On-site facilities:** None

**Horizon mask:** < 15° in all directions.

**Description:** From the intersection of highways US 93 and Nevada 489 (about 45 miles north of Ely via US 93), continue north on US 93 for 3.9 miles and turn right (east) on a side road. Go 1.5 miles and turn right at a power pole and some old farm junk. Go 0.2 miles and turn right across a gully. Go 0.2 miles and keep left. Go 0.4 miles and stay right, into an open area. Go 0.1 miles and keep right on more traveled of two roads into the trees. Continue uphill 4WD for 1.7 miles to a 4-way intersection. Turn left for 0.3 miles. Go for 0.2 miles, crossing an old fence line, then uphill for 0.2 miles to the end of truck travel. Station is about 100 feet from end of truck travel.

**Sketch/Photos:** Photos available in map envelope.

**Point:** E200

**Name:** RUTH

**Coordinates:** 39 17 22.869 -114 57 12.500 2150.93 m

**Map:** Ruth, Nevada. 1958 (Photorevised 1979). 1:24,000

Ely, Nevada. 1987. 1:100,000.

**Access:** Open, 4WD.

**Mark type:** Brass plaque cemented into drill hole in rock. USC&GS.

**Inscription:** DIT 1954

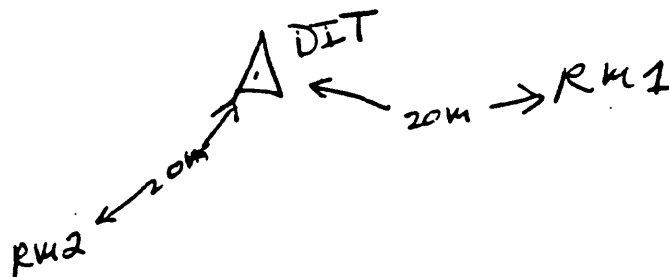
**Reference marks:** Two. See sketch.

**On-site facilities:** None

**Horizon mask:**  $< 15^\circ$  in all directions.

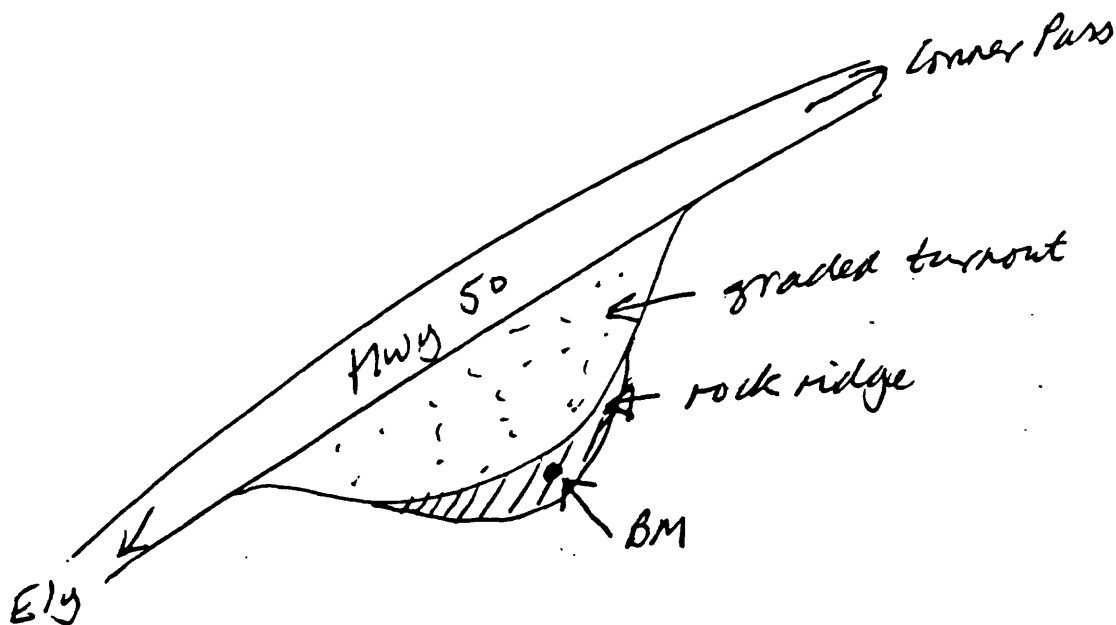
**Description:** From Keystone junction (about 4 miles west of Ely via US 50), go north then northeast on dirt road for 0.6 miles to road left. Turn left (4WD) uphill for about 100 feet, then left, then a quick right uphill for 0.1 miles to station. Set in drill hole in rock outcrop on highest part of hill.

**Sketch/Photos:** Photos available in map envelope.



**Point: E220****Name:** CONNORS PASS**Coordinates:** 39 1 58.704 -114 39 28.423 2283.85 m**Map:** Connors Pass, Nevada. 1981. 1:24,000  
Ely, Nevada. 1987. 1:100,000.**Access:** Open (National Forest), 2WD.**Mark type:** Stainless steel rod cemented into drill hole in rock. USGS/JPL.**Inscription:** 3209 S**Reference marks:** None**On-site facilities:** None**Horizon mask:** < 15° in all directions.**Description:** From the east: From the intersection of highways US 50 and US 93 ("Major's Junction", about 26 mi. southeast of Ely via US 50), drive west on US 50. After 4.7 miles you come to the Connors Pass summit marker. At 5.5 miles you come to a road cut. On the left (south) side is a gravel turnout. The mark is on a rock ridge about 10 feet above the turnout. The point is a stainless steel pin.  
From the west: From the junction of highway US 6 and US 50 (on the southeast perimeter of Ely), drive 20.4 miles east along US 50 to the road cut (see above).

Cairn built over the point after Oct. 1992 measurements.

**Sketch/Photos:**



**Point:** E240

**Name:** HOGUM

**Coordinates:** 39 4 7.269 -114 27 12.460 1726.36 m

**Map:** Hogum, Nevada. Provisional edition 1987. 1:24,000  
Ely, Nevada. 1987. 1:100,000.

**Access:** Open (BLM), 2WD.

**Mark type:** Brass plaque set in concrete pier. USC&GS.

**Inscription:** A42 1954

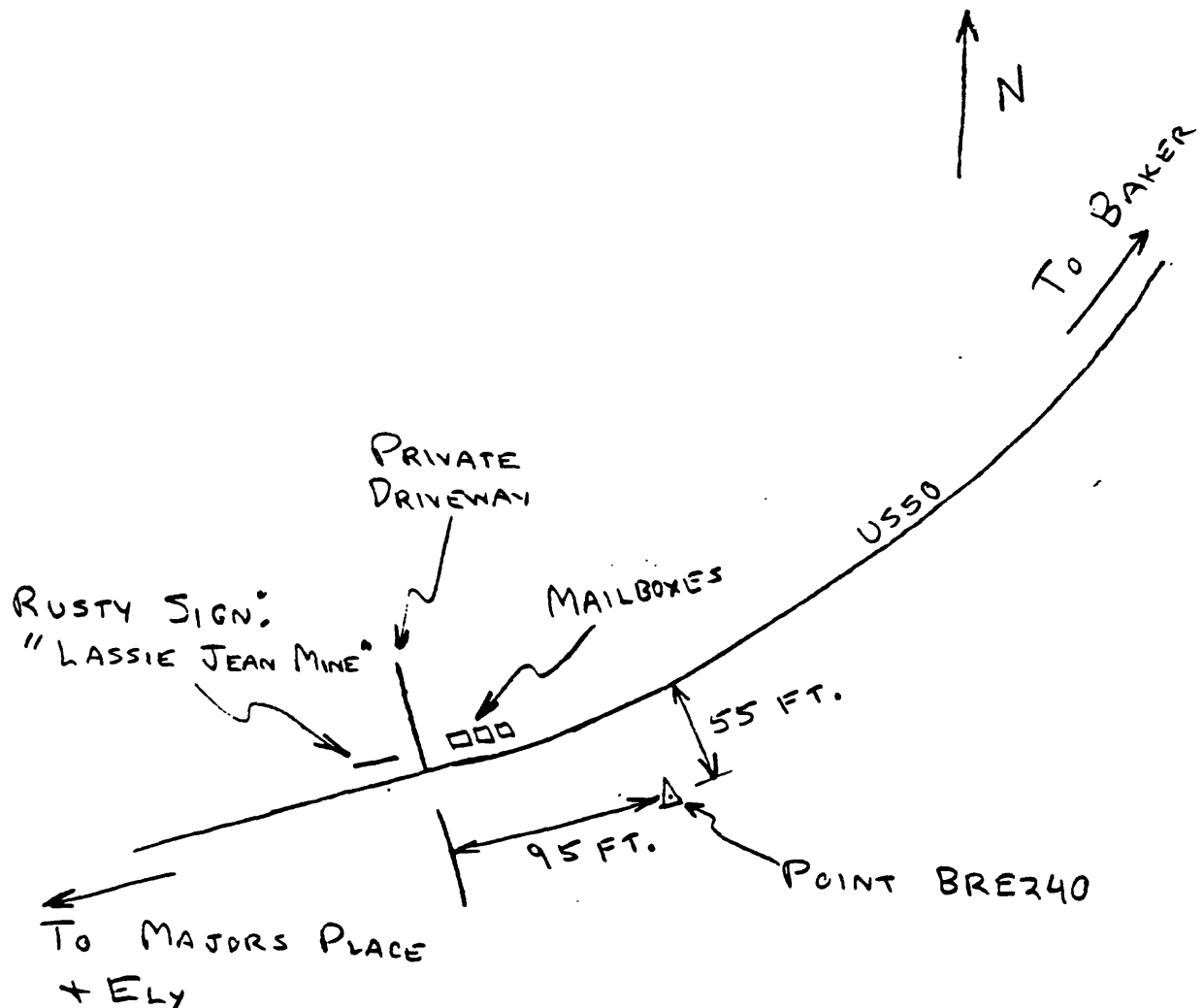
**Reference marks:** None

**On-site facilities:** None

**Horizon mask:** < 15° in all directions.

**Description:** From junction of US 50 and Nevada highway 893 (1.85 miles east of "Majors Place" and about 28 miles east of Ely via US 50), go east on US 50 for 5.62 miles. Point is about 95 feet ENE of private driveway (driveway is on north side of highway) and about 55 feet SSE of center of highway. Marked by orange plastic stake about 4 feet high. Several other monuments nearby. Milepost "US6 WP 72" is 0.46 miles west on US 50 and road to Osceola (paved fragment) is 0.24 miles east.

**Sketch/Photos:**



**Point:** E260

**Name:** LEHMAN CAVES

**Coordinates:** 39 5 48.627 -114 12 15.271 1801.75 m

**Map:** Lehman Caves, Nevada. Provisional edition 1986. 1:24,000  
Ely, Nevada. 1987. 1:100,000.

**Access:** Open (BLM), 2WD. Dirt road, moderate grades.

**Mark type:** Brass plaque set in concrete pier. USC&GS.

**Inscription:** F36 1934

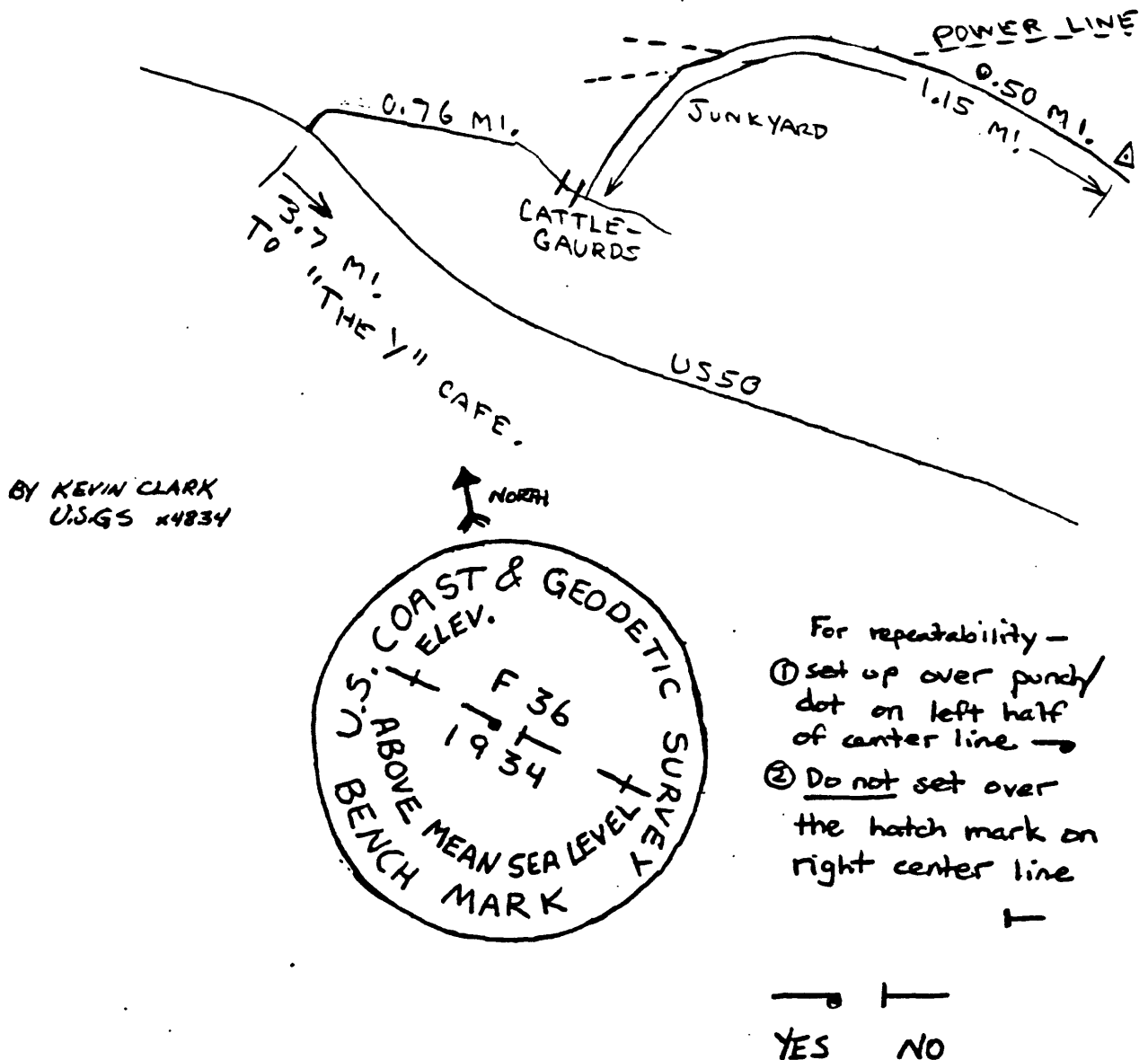
**Reference marks:** None

**On-site facilities:** None

**Horizon mask:** < 15° in all directions.

**Description:** From "The Y" cafe at intersection of US 50 and Nevada highway 487 (about 58 miles east of Ely via US 50), go northwest (toward Ely) on US 50 for 3.7 miles and turn right (northeast) on dirt road, which turns right (east) after about 250 feet. 0.75 miles from US 50, turn left (north) on dirt road just beyond (east of) the second of two closely-spaced cattle guards. (Sign at entrance to "Strawberry Creek Ranch" is visible about 150 feet ahead). Follow road north and then east for 1.15 miles. Point is about 35 feet north of center of road.

**Sketch/Photos:**



**Point:** E280

**Name:** ESKDALE

**Coordinates:** 39 2 40.336 -113 53 12.926 1512.95 m.

**Map:** Eskdale, Utah. Provisional edition 1991. 1:24,000

Tule Valley, Utah. 1981. 1:100,000.

**Access:** Open, 2WD.

**Mark type:** Brass plaque set in concrete pier. USGS.  
10 inches above surface.

**Inscription:** 68 HJH 50 30 1958

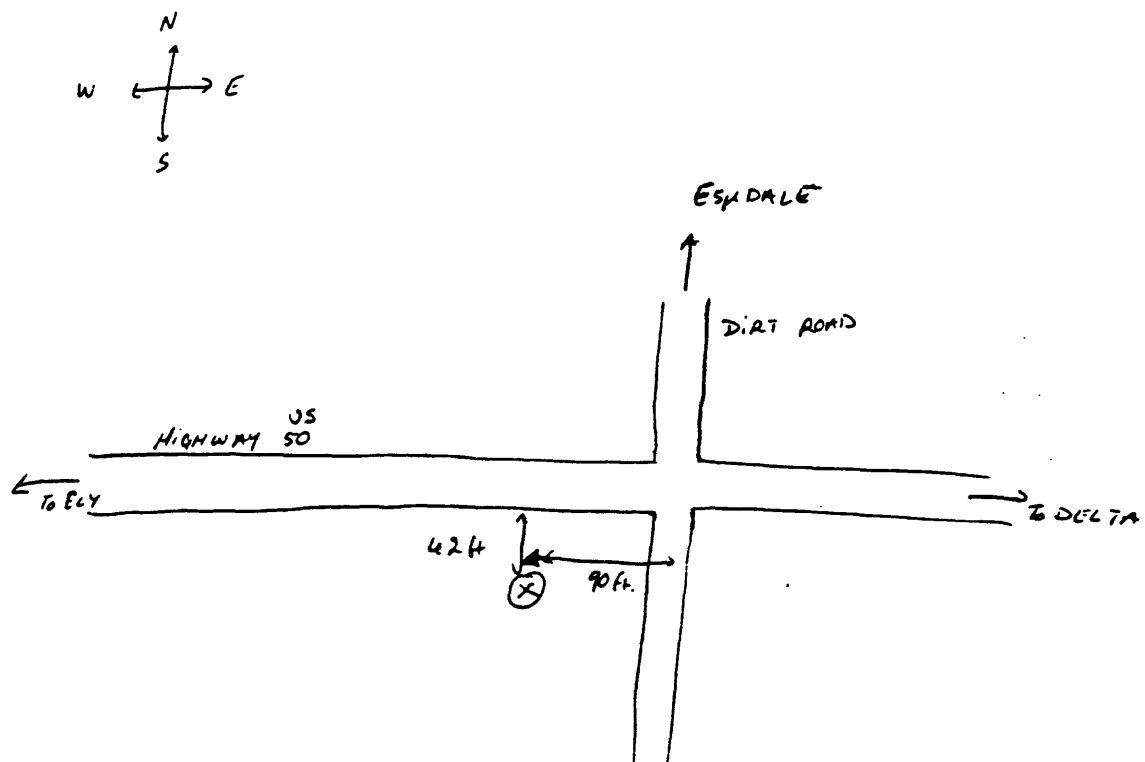
**Reference marks:** None

**On-site facilities:** None

**Horizon mask:**  $< 15^\circ$  in all directions.

**Description:** From the junction of highway US 50 and Nevada highway 487 (about 58 miles east of Ely via US 50, or 5 mi. northwest of Baker via Nevada 487), go east on US 50 for 15.95 miles. The point is 42 feet south of the south edge of highway US 50 and 90 feet west of centerline of dirt road leading north to Eskdale and Knoll Springs.

**Sketch/Photos:**



**Point: E300****Name:** PRESTON**Coordinates:** 38 53 23.576 -115 7 48.683 1921.31 m**Map:** Preston, Nevada. 1979. 1:24,000.  
Duckwater, Nevada. 1980. 1:100,000.**Access:** Open, 4WD. Wet weather/flash flood may make access impossible by truck.**Mark type:** Steel rod cemented into drill hole in rock. USGS.**Inscription:** E300**Reference marks:** None**On-site facilities:** None**Horizon mask:** < 15° in all directions.**Description:** **Difficult to find. Should be flagged.**

From the intersection of US 6 and Nevada highway 318 (about 23 mi. southwest of Ely via US 6), follow Nevada 318 southeast about 10 mi. to the Preston turnoff. Turn right (west) towards Preston and go 1.1 miles to gravel road on right. Turn right and go 0.3 miles to good gravel road on right. Turn right and follow road for 1.8 miles to road left leading to a dump. Take 2nd road left (flagged in 1992) for 0.1 miles passing on northwest side of dump. Continue on road for 0.6 miles to gully (ditch). Cross gully and go 0.4 miles to fork. Keep straight (right fork) and go 0.2 miles to fork (flagged in 1992). Take right fork and go 0.4 miles to complicated intersection (flagged in 1992). Keep straight and go 0.01 miles to fork. Take left fork and go 1.3 miles to fence. Keep on outside of fence and go 0.1 miles leaving fence line and go southerly toward saddle for 0.4 miles to saddle. Turn left in saddle and go 0.05 miles uphill to end of truck travel. Mark (flagged in 1992) is about 10 m uphill from end of truck travel (flagged in 1992) on the 4th step of limestone outcrop from where they began. Cairn built over point at end of 1992 survey.

**Sketch/Photos:** Photos available in map envelope.

**Point: F100****Name:** GRANITE MOUNTAIN**Coordinates:** 39 32 54.555 -113 35 5.340 1486.92 m**Map:** Granite Mountain, 19??, 1:62,500.

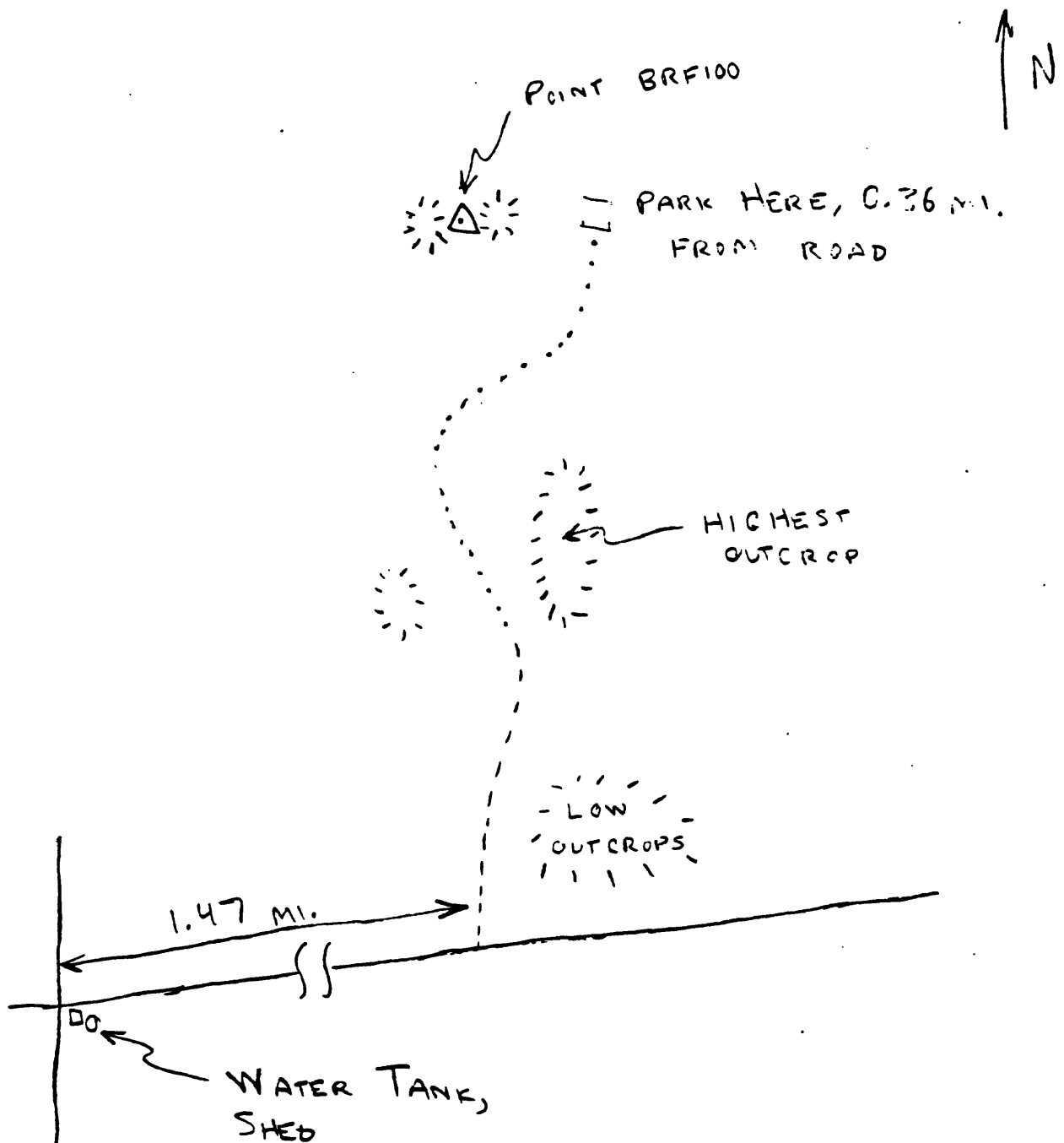
Fish Springs, Utah. 1979. 1:100,000.

Also needed for approach: Tule Valley, Utah. 1981. 1:100,000.

**Access:** Open, (BLM) 2WD. 4WD or walk final 0.36 miles. Very remote. Extra spare tire advisable.**Mark type:** Stainless steel rod cemented into drill hole in rock. USGS/JPL.**Inscription:** 3208 S**Reference marks:** None**On-site facilities:** None**Horizon mask:** < 15° in all directions.**Description:** From "The Y" cafe at intersection of US 50 and Nevada highway 487 (about 58 miles east of Ely via US 50), go southeast on US 50 for 0.13 miles and turn left (northeast) on dirt road. Go 14.84 miles to Robison Ranch and turn right (east) at intersection (Sign: "Knoll Spring 7"). Go east for 20.70 miles, through Cowboy Pass and past point F200, and turn left (north) at intersection (Signs: "Marjum Pass 15, Indian Pass 8, Trout Creek 34" and "14 well No. 58 -> USDI BLM"). Go north 13.73 miles to intersection near water tank and tin shed. Turn right (east) and go 1.47 miles. Turn left (north) on faint track and drive 0.36 miles, passing through small pass to left (west) of highest outcrop. About 60 to 70 m north of the pass are two west-dipping limestone outcrops, about 7.5 m apart and standing about 0.7 to 1.5 m above ground level. The point is on the projected centerline between these outcrops, and about 9.5 m north of the point midway between them.**Sketch/Photos:** Photos available in map envelope.

Point:

F100 (continued)



**Point:** F200

**Name:** THOMPSON KNOLL

**Coordinates:** 39 4 52.568 -113 37 46.847 1897.67 m

**Map:** Thompson Knoll, Utah. Provisional edition 1991, 1:24,000.  
Tule Valley, Utah. 1981. 1:100,000.

**Access:** Open, (BLM) 2WD.

**Mark type:** Stainless steel rod cemented into drill hole in rock. USGS/JPL.

**Inscription:** 3211 S

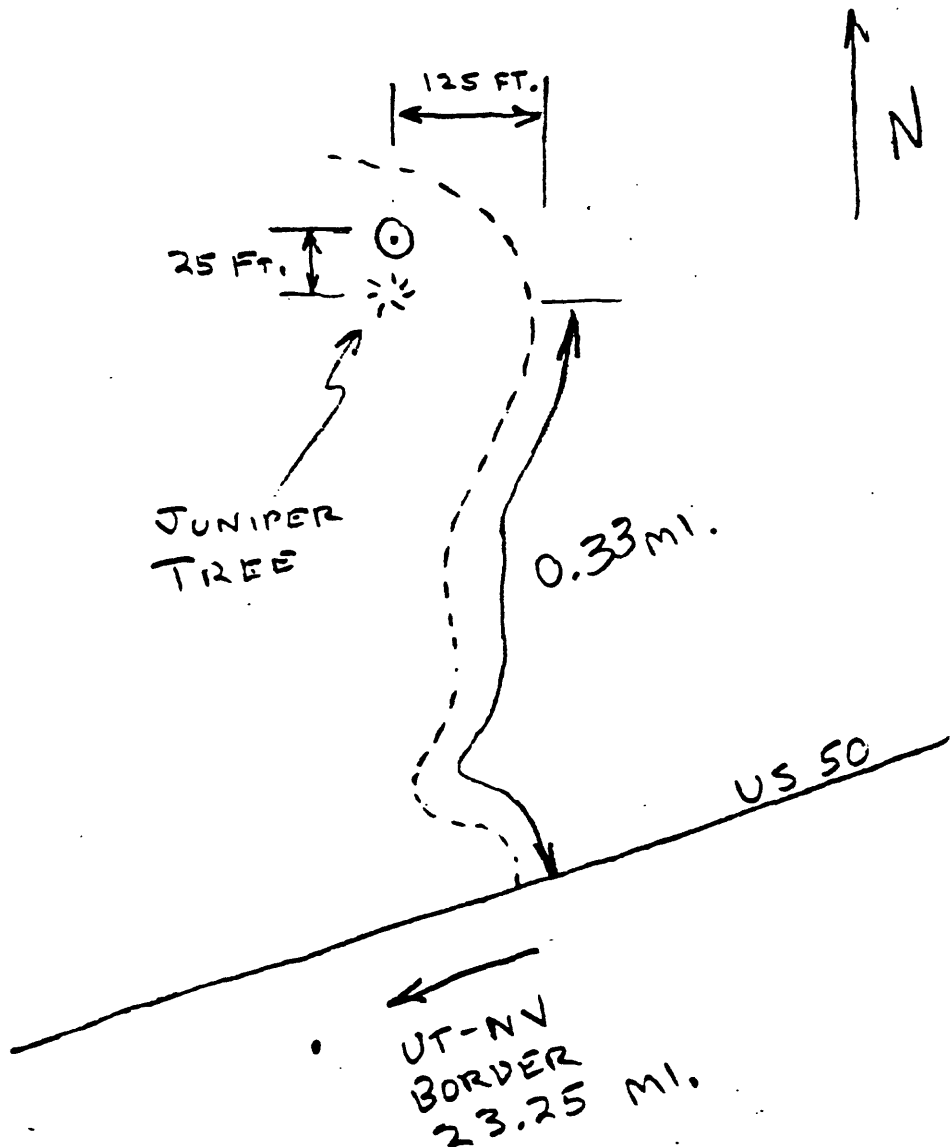
**Reference marks:** None

**On-site facilities:** None

**Horizon mask:** < 15° in all directions.

**Description:** From the Nevada-Utah border, go east on US 50 for 23.25 miles and turn left (north) on a dirt road. Go 0.33 miles and park at the crest of a low hill. The point is 125 feet west of the road and 25 feet north of the largest juniper tree, in a limestone outcrop.

**Sketch/Photos:**



**Point:** F210

**Name:** BULLGRASS KNOLL

**Coordinates:** 39 5 11.038 -113 31 49.373 1495.48 m

**Map:** Bullgrass Knoll, Utah. Provisional edition 1991, 1:24,000.  
Tule Valley, Utah. 1981. 1:100,000.

**Access:** Open, 2WD.

**Mark type:** Brass plaque set in concrete pier. USGS.

**Inscription:** 76 HJH 4917 FT. 1958

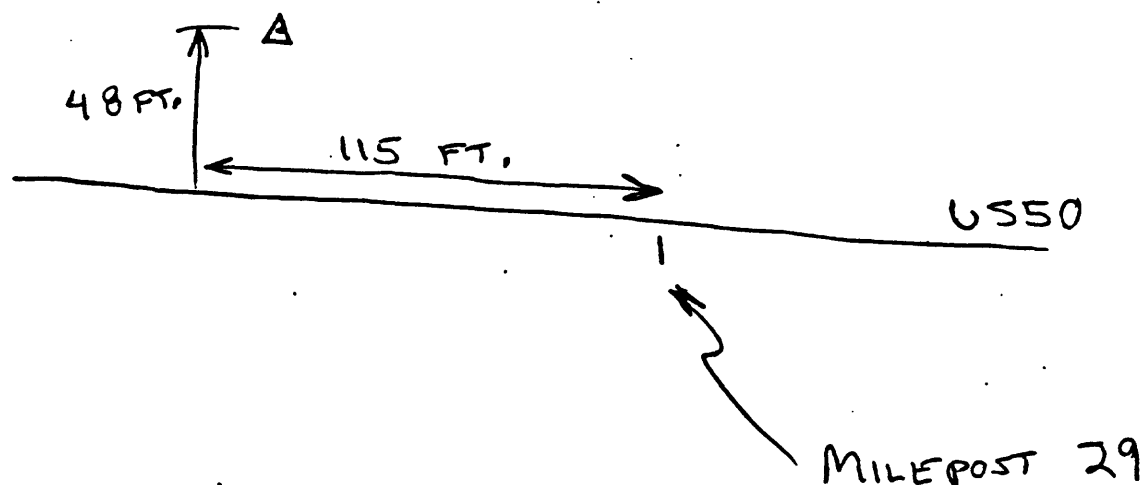
**Reference marks:** None

**On-site facilities:** None

**Horizon mask:** < 15° in all directions.

**Description:** From Nevada-Utah border, go east on US 50 for 29 miles. The point is about 115 feet west of milepost 29 and about 48 feet north of the center of US 50.

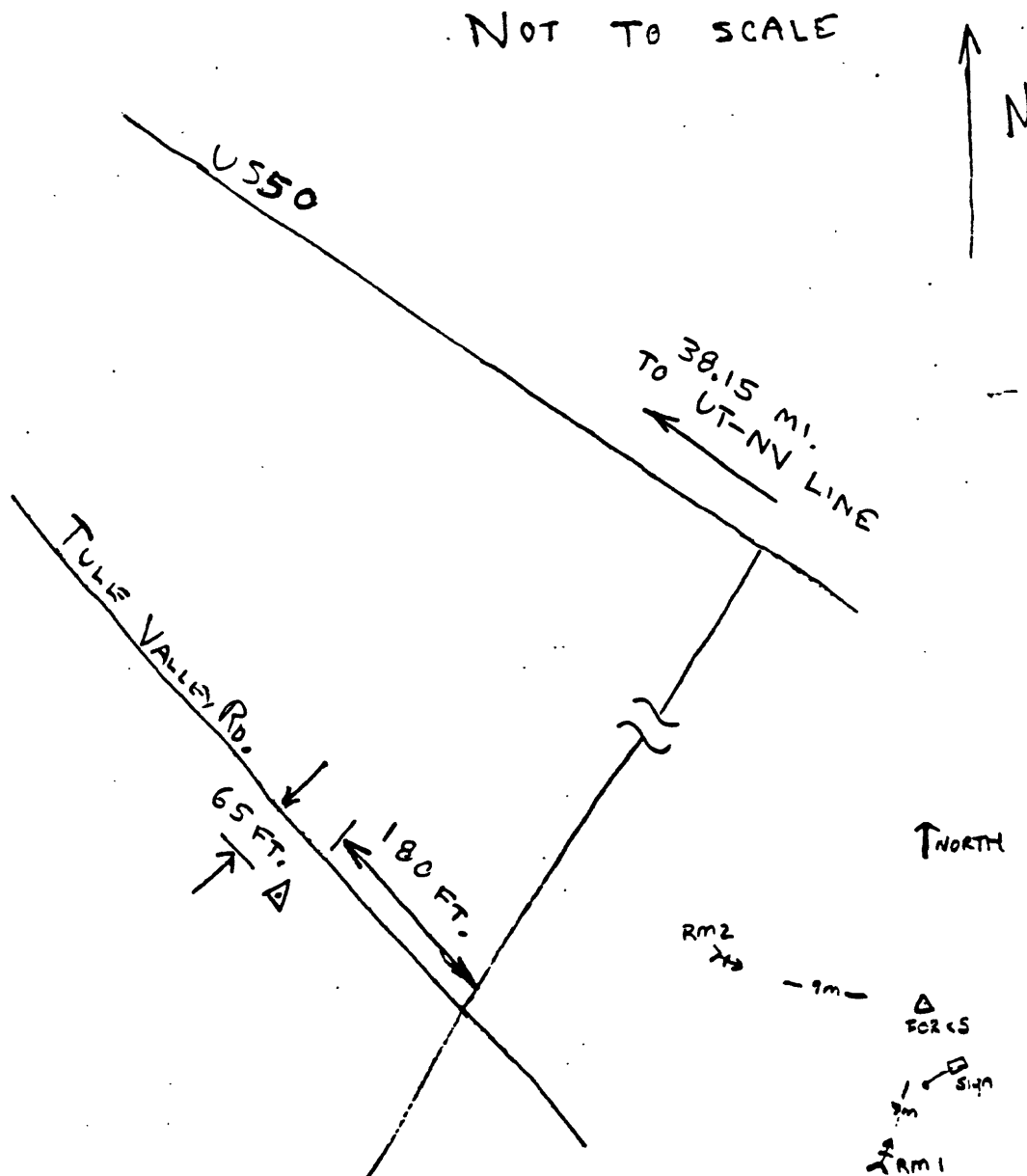
**Sketch/Photos:**





**Point: F220****Name:** HELL'N MORIAH CANYON**Coordinates:** 39 1 25.645 -113 23 5.215 1436.67 m**Map:** Hell'n Moriah Canyon, Utah. Provisional edition 1991. 1:24,000.  
Tule Valley, Utah. 1981. 1:100,000.**Access:** Open, 2WD.**Mark type:** Brass plaque set in concrete pier. USC&GS.**Inscription:** FORKS 1957**Reference marks:** FORKS NO 2 1957 >—|—> (7 m N 45 W from main point).

FORKS NO 1 1957 &gt;—|—&gt; (8 m S 15 W from main point).

**On-site facilities:** None**Horizon mask:** < 15° in all directions.**Description:** From the Nevada-Utah border, go east on US 50 for 38.15 miles and turn right (southwest) on a dirt road. Go southwest for 0.49 miles to the intersection with Tule Valley Road. The point is about 180 feet northwest of the intersection and about 65 feet southwest of Tule Valley Road. A reddish steel post with a white survey bench mark sign marks the area.**Sketch/Photos:**

**Point: F230****Name:** WHIRLWIND VALLEY SW**Coordinates:** 39 15 13.811 -113 13 24.947 1596.11 m**Map:** Whirlwind Valley SW, Utah. 1972. 1:24,000.

Tule Valley, Utah. 1981. 1:100,000.

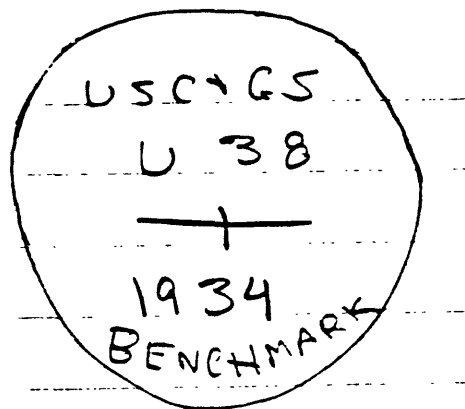
**Access:** Open, 2WD.**Mark type:** Brass plaque set in concrete pier. USC&GS.**Inscription:** U38

+—

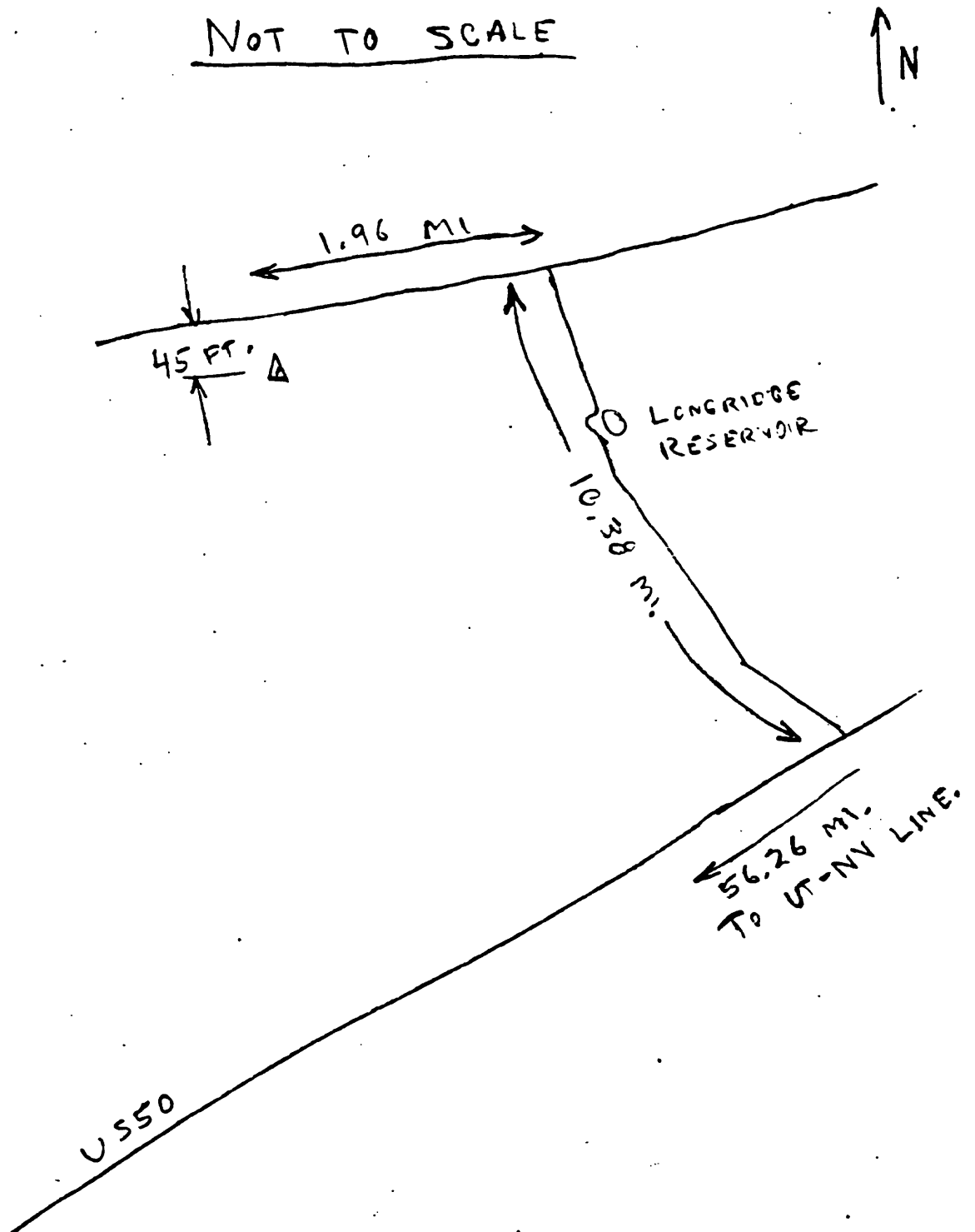
1934

**Reference marks:** None**On-site facilities:** None**Horizon mask:** < 5° in all directions.**Description:** From Utah-Nevada border, go east on US 50 for 56.26 miles and turn left (NNW) on a dirt road (Sign: "Longridge Resvr. 7, Marjum Pass 21, Death Canyon 21"). Go NNW for 10.38 miles and turn left (west) on the old US 50/6 (dirt road). Go west for 1.96 miles to point.From east: From junction of US 50 and Utah highway 257 (about 1 mile east of Hinckley on US 50), go west on US 50 for 7.81 miles and turn right (northwest) on dirt road. (Intersection is 0.09 miles west of milepost 76). Follow road northwest about 3/4 mile and then west for a total of 24.7 miles to point.

The point is about 45 feet south of the center of the road.

**Sketch/Photos:**

Point: F230 (continued)



**Point:** F250

**Name:** RED KNOLLS

**Coordinates:** 39 16 58.600 -113 2 45.004 1447.66 m.

**Map:** Red Knolls, Utah. 1972. 1:24,000.  
Tule Valley, Utah. 1981. 1:100,000.

**Access:** Open, 2WD.

**Mark type:** Brass plaque set in concrete pier. USC&GS.

**Inscription:** P 38 1934

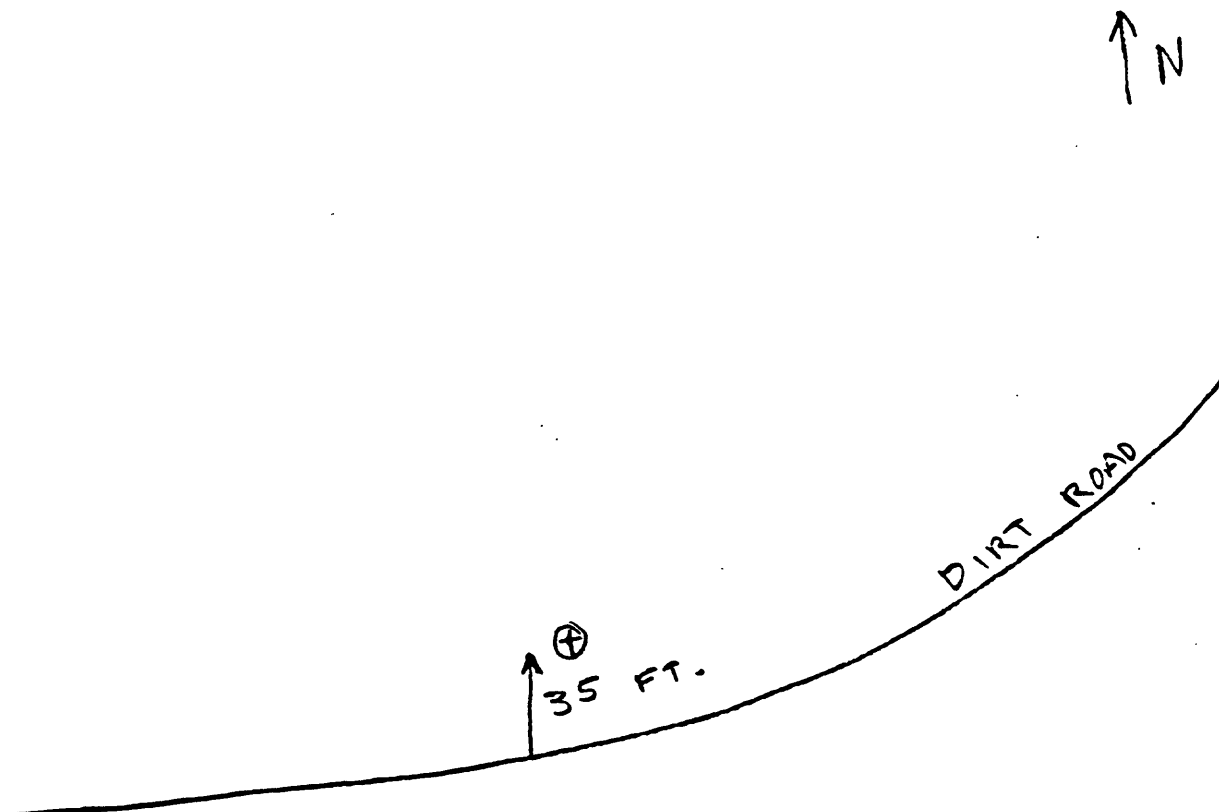
**Reference marks:** None

**On-site facilities:** None

**Horizon mask:** < 5° in all directions.

**Description:** From west: From the Nevada-Utah border, go east on US 50 for 56.26 miles and turn left (northwest) on dirt road (Sign: "Longridge Resvr. 7, Marjum Pass 21, Death Canyon 21"). Go northwest for 10.38 miles and turn right (east) on dirt road. Go east for 7.85 miles to point.  
From east: From junction of US 50 and Utah highway 257 (about 1 mile east of Hinckley on US 50), go west on US 50 for 7.81 miles and turn right (northwest) on dirt road. (Intersection is 0.09 miles west of milepost 76). Follow road northwest about 3/4 mile and then west for a total of 14.77 miles to point.  
Point is about 35 feet north of center of road.

**Sketch/Photos:**



**Point:** F270

**Name:** CRAFTS LAKE

**Coordinates:** 39 18 59.737 -112 50 13.884 1368.79 m

**Map:** Crafts Lake, Utah. 1971. 1:24,000.

Delta, Utah. 1989. 1:100,000.

**Access:** Open, 2WD.

**Mark type:** Brass plaque set in concrete pier. USC&GS.

**Inscription:** V35

+

1934

**Reference marks:** None

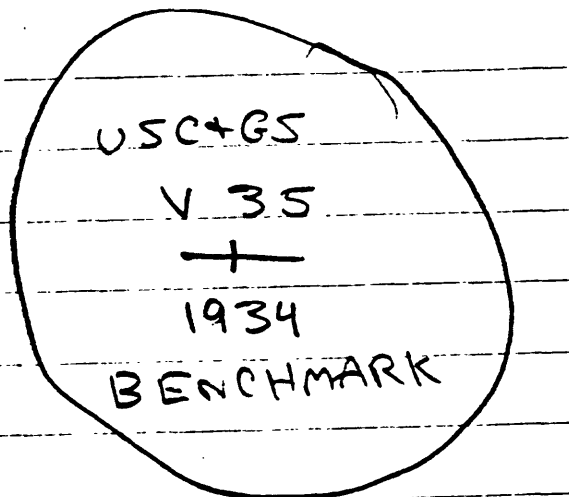
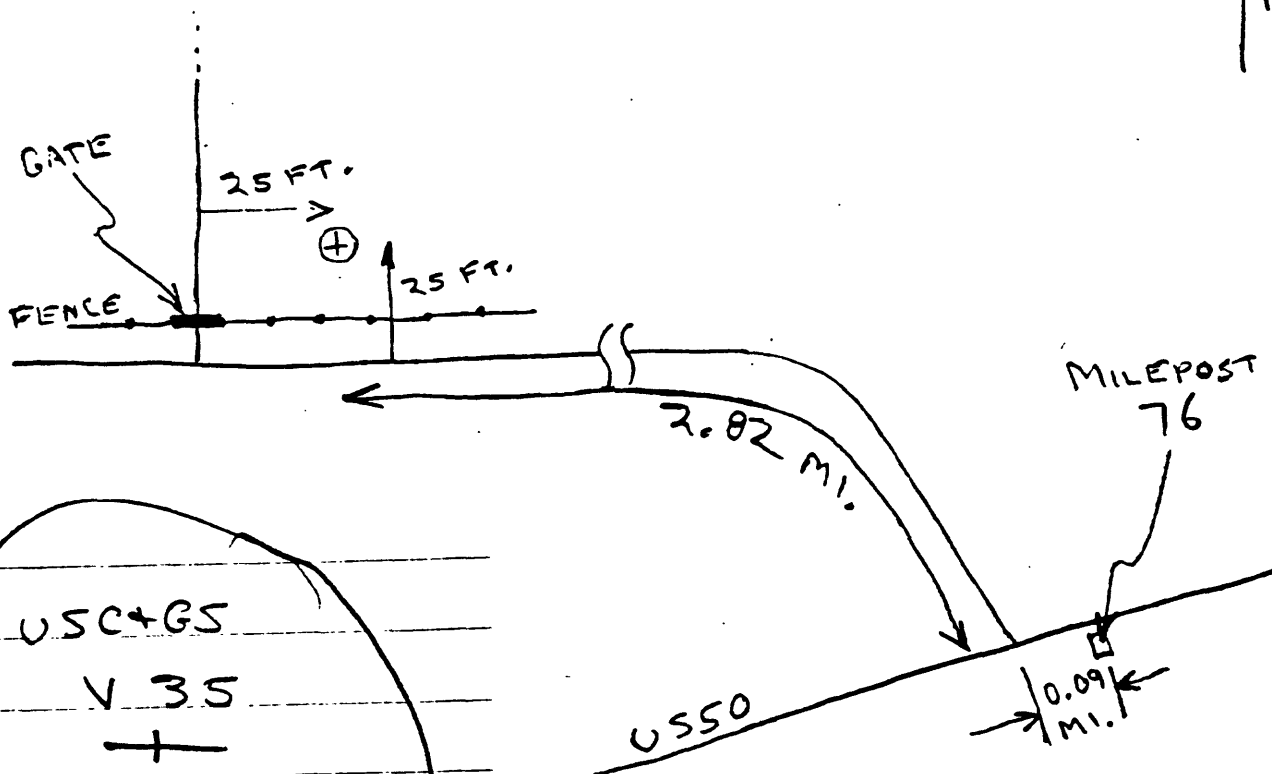
**On-site facilities:** None

**Horizon mask:**  $< 15^\circ$  in all directions.

**Description:** From the junction of US 50 and Utah highway 257 (about 1 mile east of Hinckley via US 50), go west on US 50 for 7.81 miles and turn right (northwest) on a dirt road. (Intersection is 0.09 miles west of milepost 76). Follow road northwest and then west for a total of 2.82 miles to side road and gate on right (north). Point is across (to north of) fence, 25 feet north of center of road and 25 feet east of side road.

**Sketch/Photos:**

NOT TO SCALE



**Point:** F280

**Name:** DELTA

**Coordinates:** 39 22 1.188 -112 32 44.188 1407.81 m

**Map:** Delta, Utah. Provisional edition 1986. 1:24,000.  
Delta, Utah. 1989. 1:100,000.

**Access:** Russell Greathouse, President, Sahara Motors  
597 N Hwy. 6, Delta, UT 84624  
(801) 864-4456  
2WD.

**Mark type:** Brass plaque set in concrete pier. USC&GS.  
Concrete is cracked, but solid.

**Inscription:** K332  
—+—  
1945

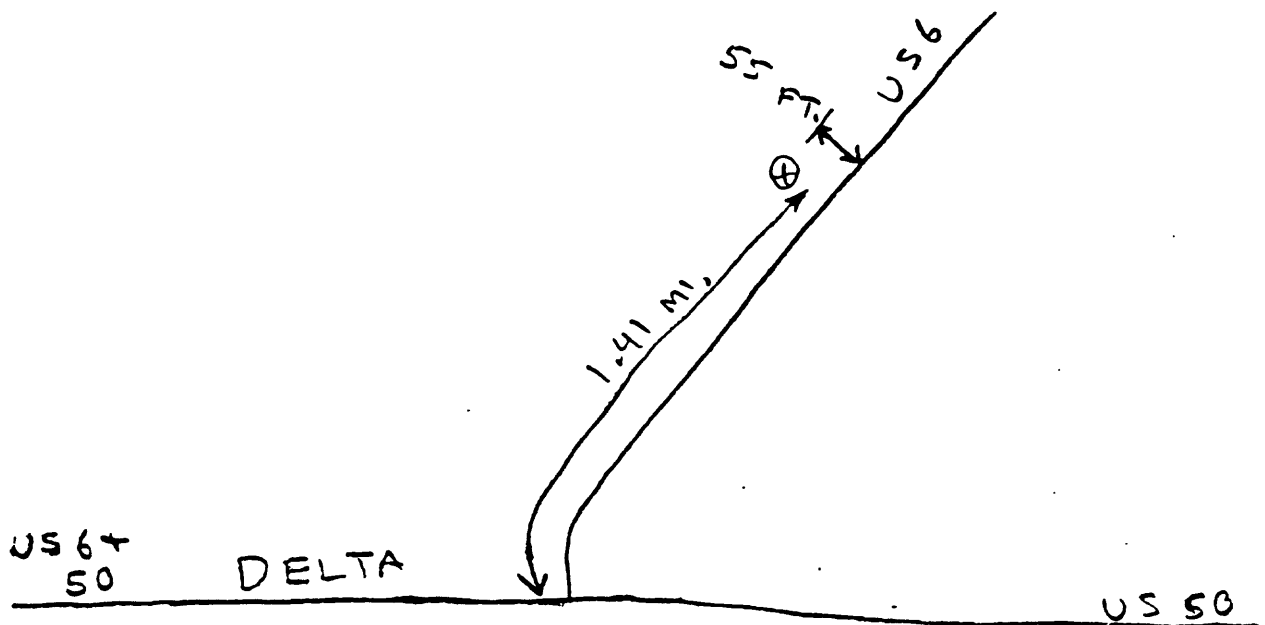
**Reference marks:** None

**On-site facilities:** None

**Horizon mask:** < 10° in all directions.

**Description:** From the intersection of US 6 and US 50 (on the east side of the town of Delta), go northeast on US 6 for 1.41 miles to the point. The point is across (northwest of) a fence and about 55 feet northwest of the center of US 6.

**Sketch/Photos:**



RUSSELL GREATHOUSE  
PRESIDENT  
BUS. (801) 864-4456



*Sahara Motors, Inc.*

597 N. HWY. 6  
DELTA, UT 84624



**Point: F290**

Name: McCORNICK  
 Coordinates: 39 9 24.436 -112 24 34.492 1409.48 m.  
 Map: McCornick, Utah. Provisional edition 1986. 1:24,000.  
 Delta, Utah. 1989. 1:100,000.

Access: Open (BLM), 2WD.  
 Mark type: Brass plaque set in concrete pier. USGS.  
 Inscription: H117  
 4686 FEET  
 1931

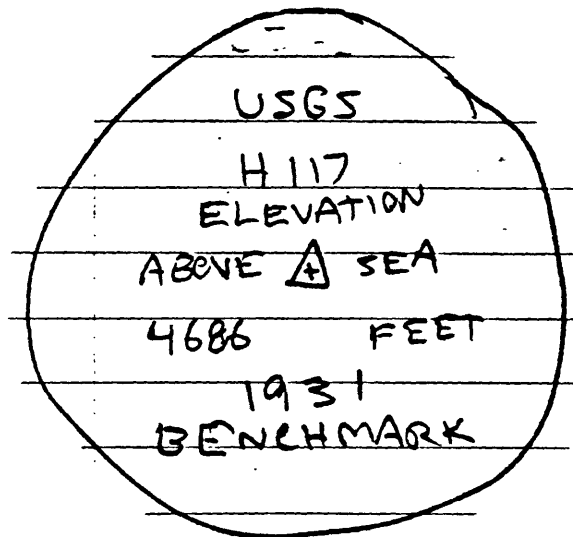
Reference marks: None

On-site facilities: None

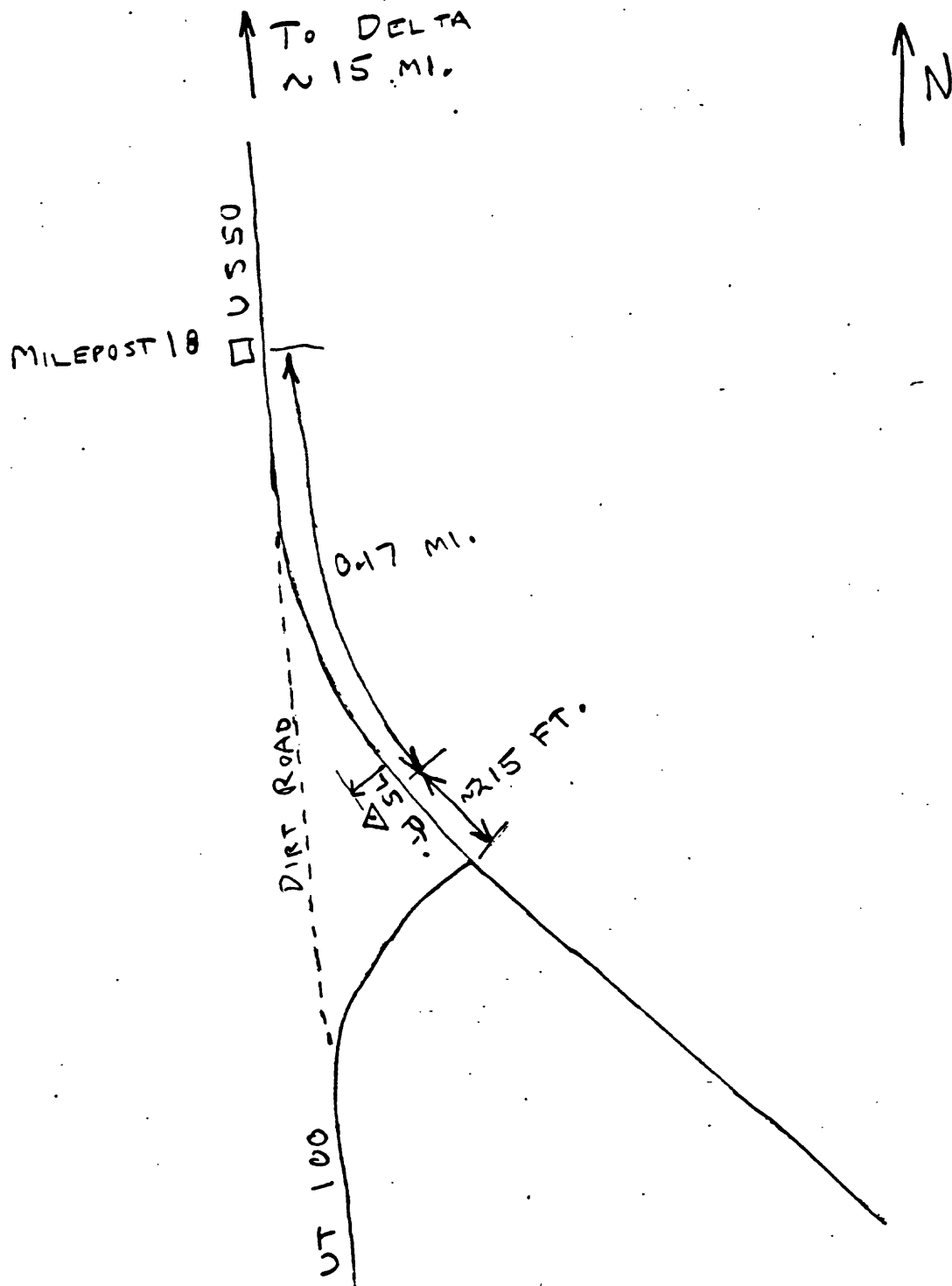
Horizon mask: < 15° in all directions.

Description: From intersection of US 50 and Utah highway 100 (about 15 miles southeast of Delta via US 50), go northwest on US 50 for about 215 feet. The point is about 75 feet WSW of the center of US 50. Milepost 18 is on the west side of US 50 about 0.17 mi. north of the point.

Sketch/Photos:



Point: F290 (continued)





**Point: F300****Name:** MIDDLE MOUNTAIN**Coordinates:** 38 47 41.081 -113 40 0.303 1773.28 m**Map:** Middle Mountain, Utah. Provisional edition 1991. 1:24,000.  
Wah Wah Mts., Utah. 1980. 1:100,000.**Access:** Open, 2WD.**Mark type:** Stainless steel rod cemented in drill hole in rock. USGS/JPL.**Inscription:** 3210 S**Reference marks:** None**On-site facilities:** None**Horizon mask:** < 15° in all directions.**Description:** The station is located on BLM land south of highway US 50 at the north end of Middle Mountain toward the south of Ferguson Desert in Millard County, Utah on a hillside facing the southwest. It is about 38 mile west of Black Rock, 22 miles southeast of Garrison and 42 miles southwest of Hinckley airline.

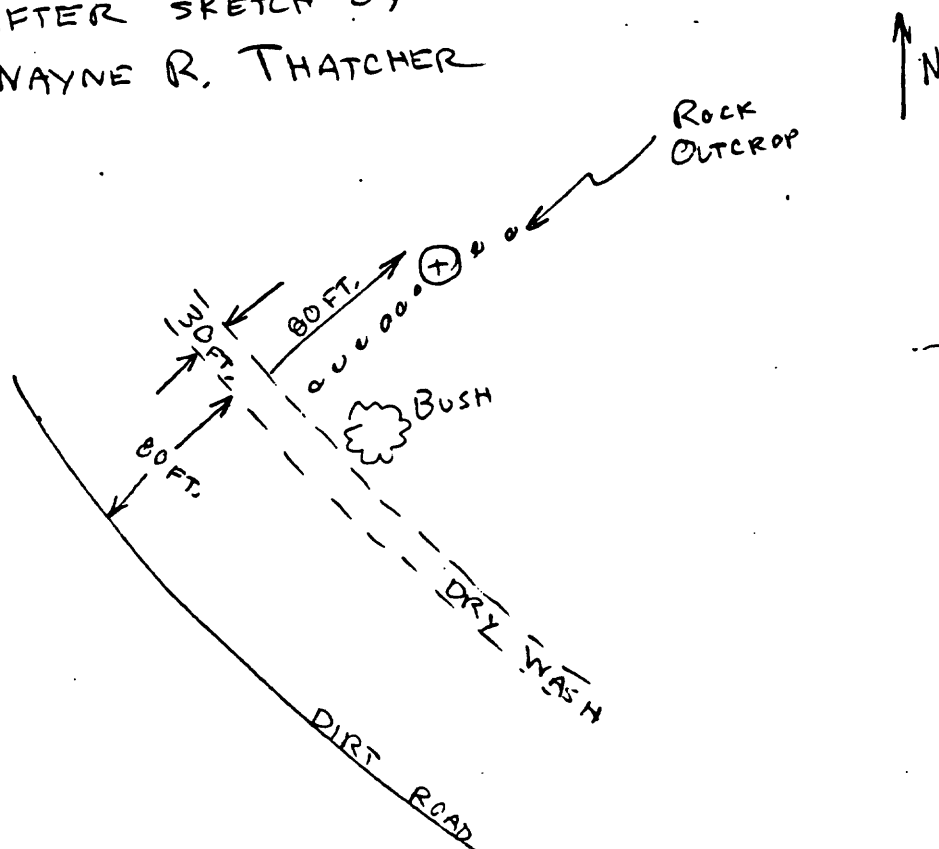
To reach the station from the east-bound mile marker 16 on highway US 50 at the intersection with the BLM dirt road leading to Little Valley, north bound, and Ferguson Well and Crystal Peak Rd., south bound, proceed south on the dirt road 5.8 miles to a "T" intersection. Turn left (east) and proceed 7.95 miles to a triangular intersection. Bear right (southwest?) and continue 5.6 miles to a road fork marked by a sign: "Black Rock 39; highway # 21 18". Bear left (east) and proceed 1.35 miles to a dirt track right (south) marked by a rocky knoll about 0.2 miles to the northwest of the intersection. Proceed right (south) on the dirt track about 1.0 miles to a point surrounded by hills and with a view down the valley up which the access road to the station ascends. From the dirt track, walk on a magnetic azimuth of 60° - 80° for 55-60 m up the southwest side of the hill to top where there are flat, gray slabs of rock.

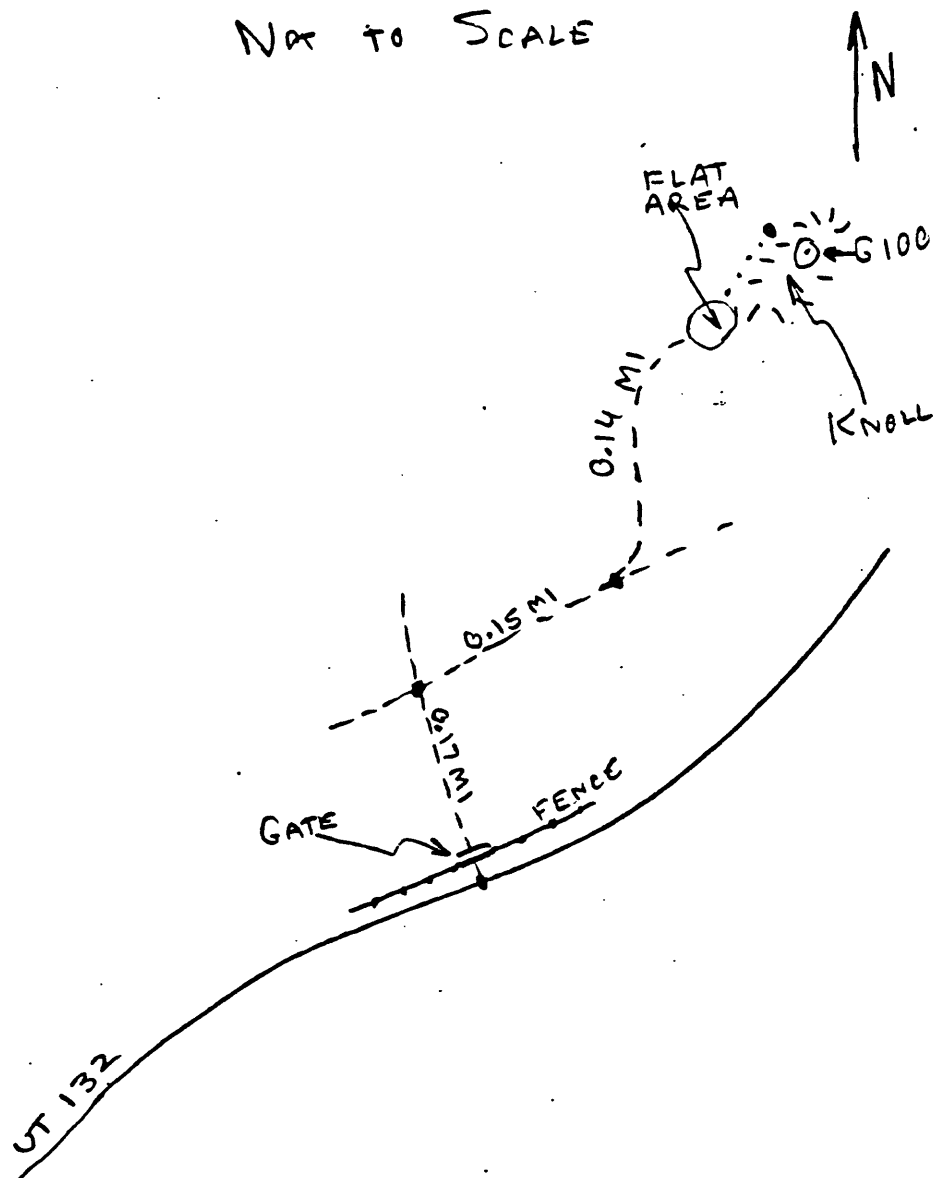
The station is flush in a sheet of bedrock about 1m in diameter and projecting about 15 cm on the downhill side. From a pair of cedar trees which have bare trunks to a height of 1.4 m and stand on the east fork of the wash passing on the west side of the station, the station is 37.6 m from the cedars on a magnetic azimuth of 315°. From the station, the only cedar tree that is in full view near the top of the hill on which the station is located lies on a magnetic azimuth of 70° from the station. From the station, and on the same side of the wash as the station, a solitary cedar tree lies on a magnetic azimuth of 315° at a distance of about 150 m from the station. At the foot of the little rough range, a large, white water trough lies on a magnetic azimuth of 274°.

**Sketch/Photos:**

Point: F300 (continued)

AFTER SKETCH BY  
WAYNE R. THATCHER



**Point: G100****Name:** CHAMPLIN PEAK**Coordinates:** 39 36 2.626 -112 8 51.061 1549.17 m**Map:** Champlin Peak, Utah. 1967. 1:24,000.  
Lynndyl, Utah. 1979. 1:100,000.**Access:** Open, 4WD advisable.**Mark type:** Stainless steel rod, cemented in drill hole in rock. USGS/JPL.**Inscription:** 3212 S**Reference marks:** None**On-site facilities:** None**Horizon mask:** < 15° in all directions.**Description:** From intersection of US 6 and Utah highway 132 at Lynndyl (about 16 miles northeast of Delta via US 6), go northeast on Utah 132 for 13.38 miles and turn left (northwest) on dirt road. (Turnoff is 0.38 miles northeast of milepost 13 and also 1.09 miles northeast of railroad crossing). Go northwest for 0.17 miles and turn right (northeast) at dirt crossroads. Go northeast for 0.15 miles and turn left (curving to northwest) on dirt track. Go 0.14 miles, crossing flat area and driving northeast along northwest side of knoll. Point is atop knoll, in limestone outcrop.**Sketch/Photos:**

**Point:** G200

**Name:** SCIPIO PASS

**Coordinates:** 39 8 23.702 -112 14 31.509 1590.29 m

**Map:** Scipio Pass, Utah. 1969. 1:24,000.  
Delta, Utah. 1989. 1:100,000.

**Access:** Open, 2WD.

**Mark type:** Brass plaque set in concrete pier. USGS.

**Inscription:** H113  
5277 FEET  
1931

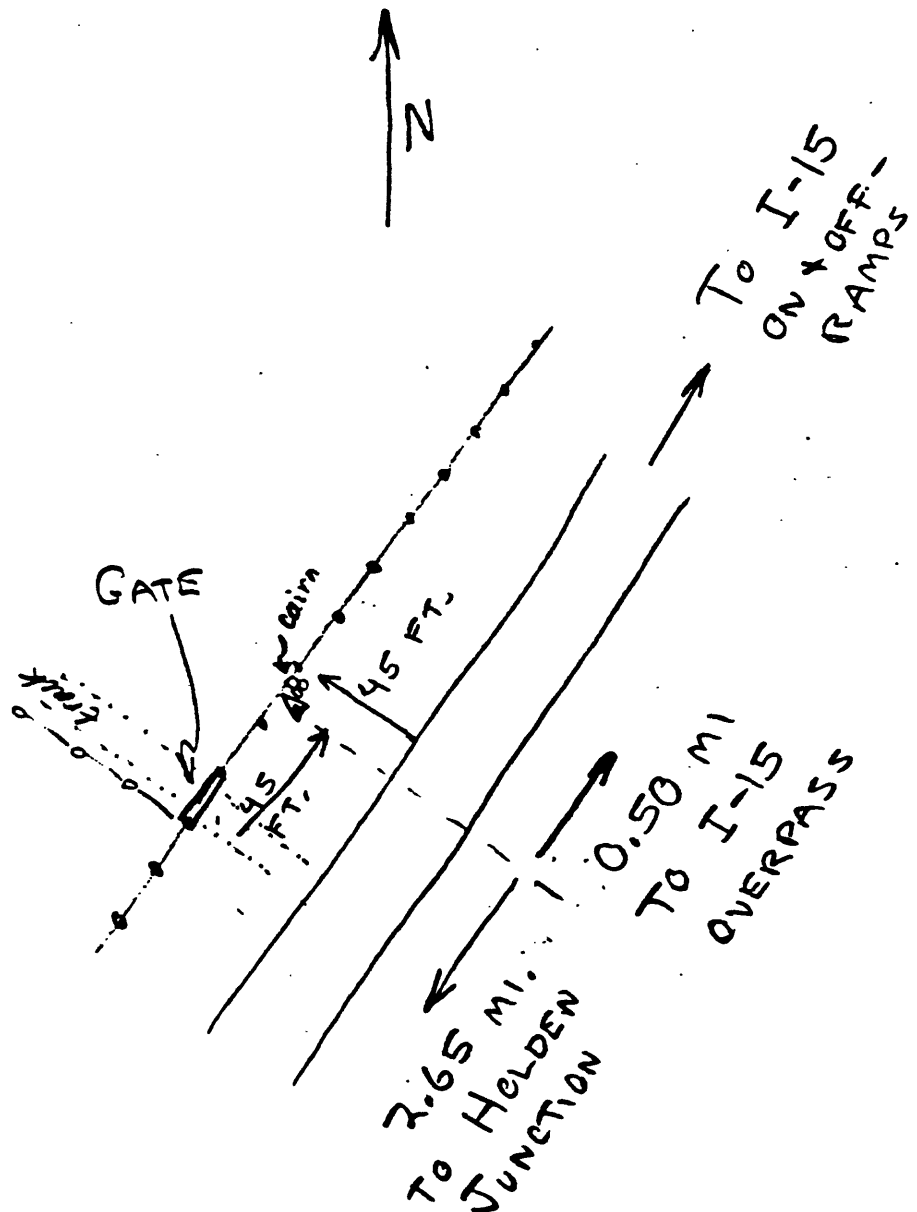
**Reference marks:** None

**On-site facilities:** None

**Horizon mask:** < 15° in all directions.

**Description:** From junction on US 50 on north side of Holden (about 27 miles southeast of Delta via US 50), go northeast on US 50 for 2.65 miles. Point is about 45 feet northwest of center of road, about 2 feet southeast of barbed-wire fence, and about 45 feet northeast of gate. Cairn beside point.

**Sketch/Photos:**



**Point: G210****Name:** SCIPPIO SOUTH**Coordinates:** 39 14 27.760 -112 5 53.965 1614.12 m.**Map:** Scipio South, Utah. 1969. 1:24,000.  
Delta, Utah. 1989. 1:100,000.**Access:** 2WD. Point owned by Mr. Jack Monroe. Ask at his house. To reach it, drive through town from the freeway, take the first left after the CONOCO gas station. House is in middle of block on left. Address: Scipio, UT 84656, tel. 758 2458). Check in also with Mr. Richard Thatcher at home on 200 South (see sketch map) (tel. 758 2458), who keeps cattle in the corral where the point is.**Mark type:** Brass plaque set in concrete pier. USC&GS.**Inscription:** R50

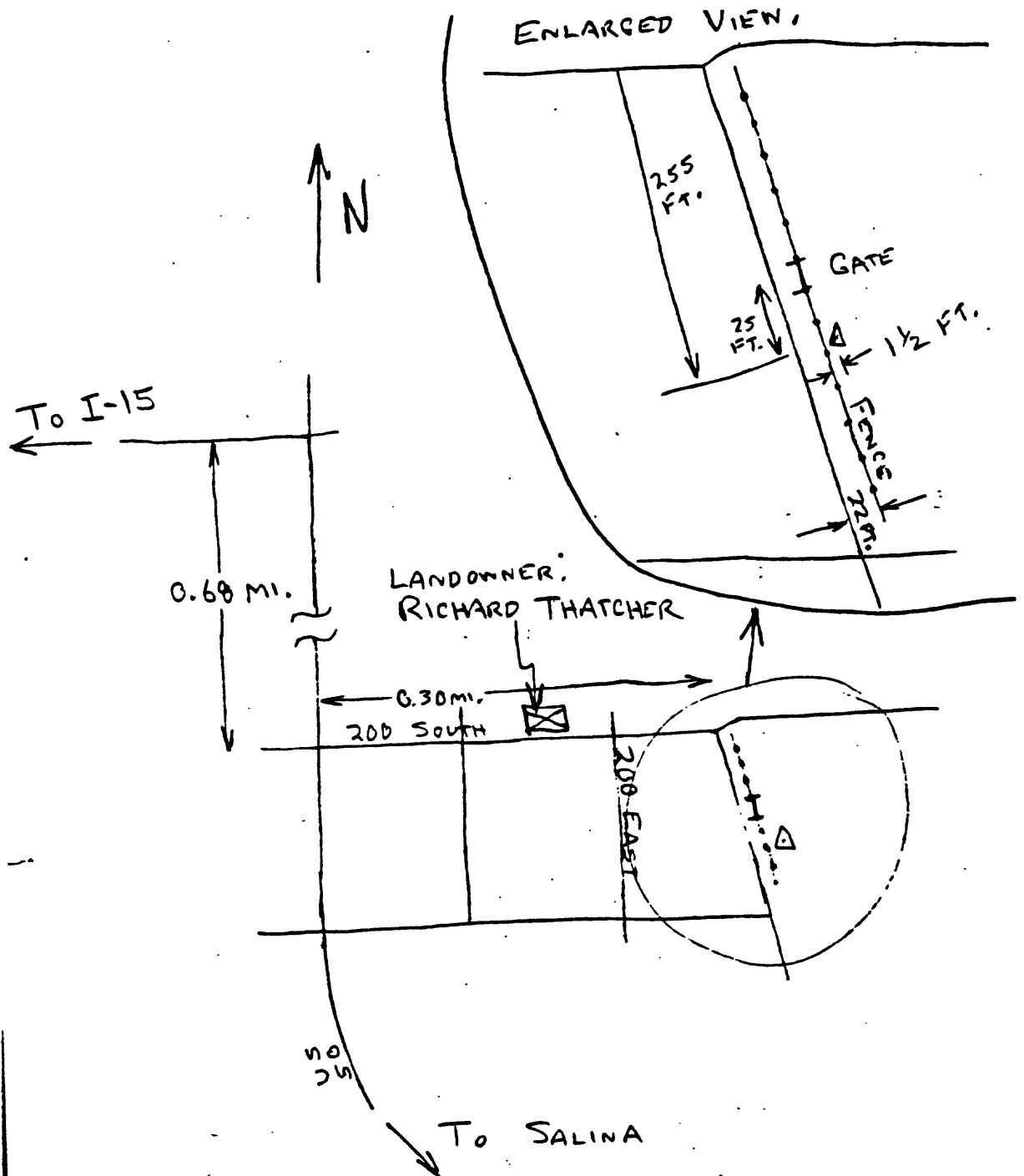
—+—

1934

**Reference marks:** None**On-site facilities:** None**Horizon mask:** < 5° in all directions.**Description:** From US 50 near southern edge of Scipio, go east on "200 SOUTH" (street) for 0.30 miles and turn right (south) on "300 EAST" (not marked - 1992). Go south about 255 feet to the point. Point is about 25 feet south of gate (in fence on east side of road) and about 1.5 feet east of the fence (about 22 feet east of center of road). Benchmark is located just inside fenced-off corridor around cattle pen. The corridor was not in use in 1992, but if brought into use, should check with Mr. Thatcher that cows will not be herded down it during the measurement session.**Sketch/Photos:**

Point:

G210 (continued)



**Point:** G220

**Name:** SCIPIO LAKE

**Coordinates:** 39 4 42.371 -112 2 29.574 1802.15 m

**Map:** Scipio Lake, Utah. 1969. 1:24,000.  
Delta, Utah. 1989. 1:100,000.

**Access:** Open, 2WD.

**Mark type:** Brass plaque set in concrete pier. USGS.

Pier crumbling around edges but still firm. Repair desirable (1992 comment).

**Inscription:** H105

5971 FEET

1931

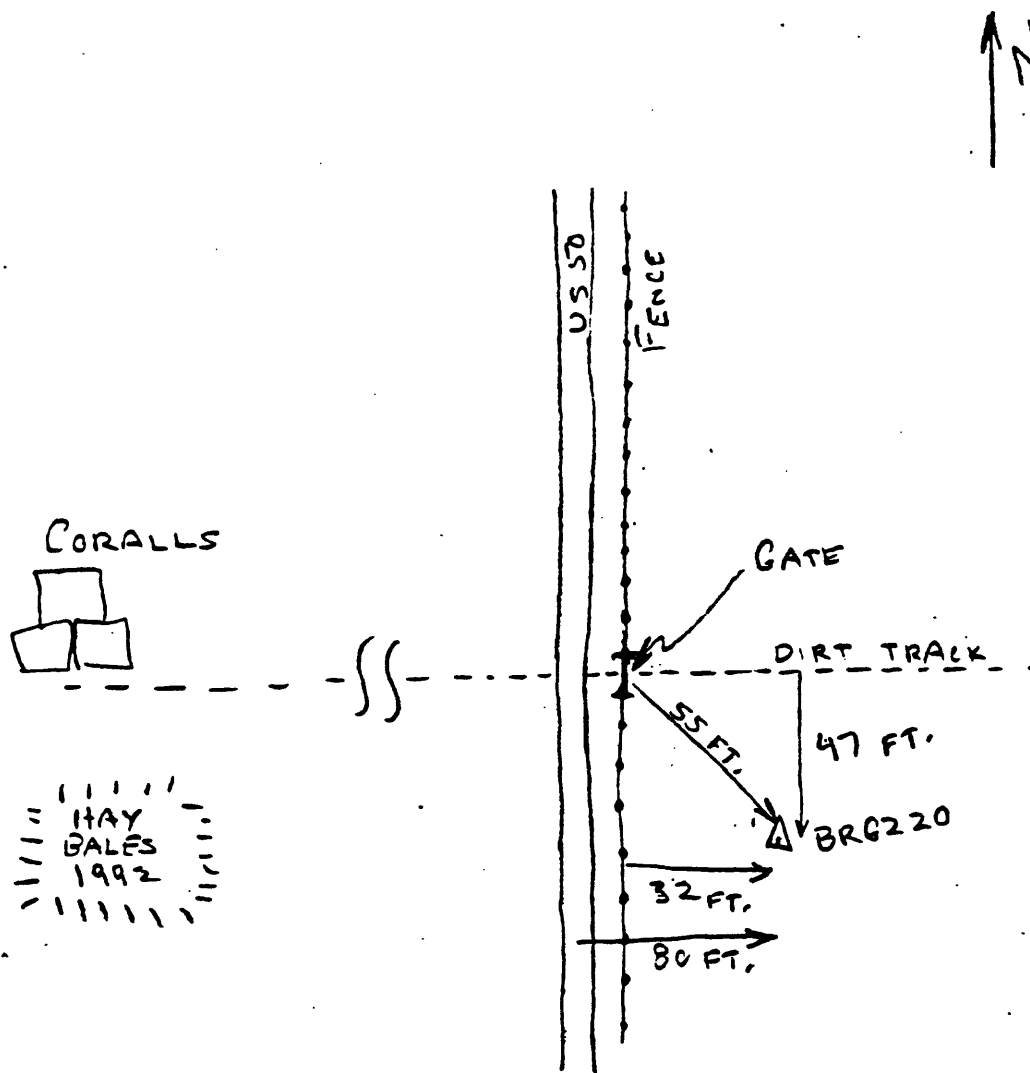
**Reference marks:** None

**On-site facilities:** None

**Horizon mask:**  $< 15^\circ$  in all directions.

**Description:** From Scipio (right-angle bend in US 50), go south on US 50 for 12.75 miles to point. Point is about 32 feet east of fence on east side of highway, 47 feet south of dirt road to the east, and about 55 feet southeast of gate in fence via faint trail. Point is 0.05 miles north of milepost 44 on US 50.

**Sketch/Photos:**

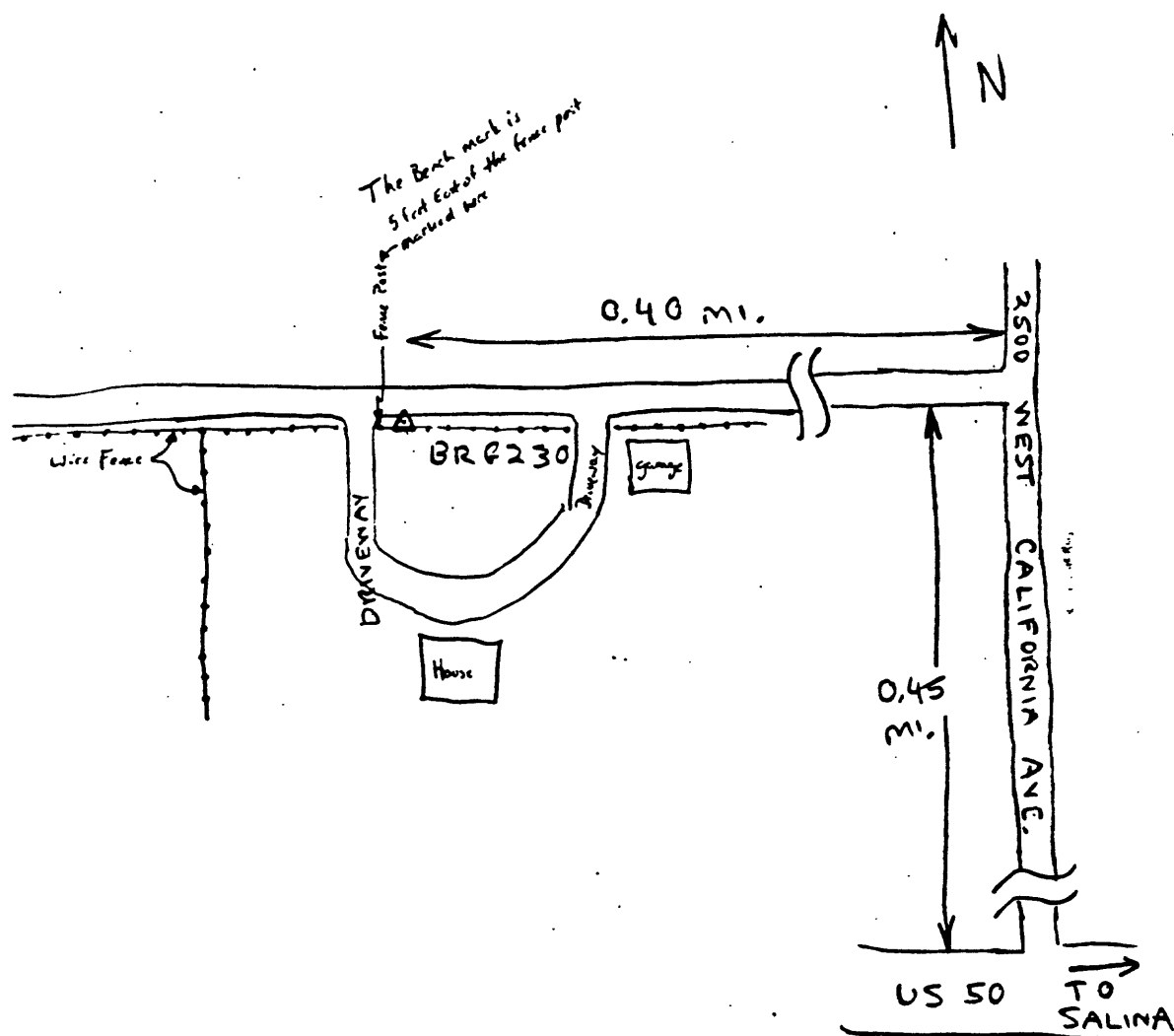


**Point: G230****Name:** AURORA**Coordinates:** 38 57 40.752 -111 54 52.372 1585.60 m.**Map:** Aurora, Utah. 1966. 1:24,000.

Salina, Utah. 1980. 1:100,000.

**Access:** Open (but check with residents), 2WD.**Mark type:** Brass plaque set in concrete pier. USC&GS.**Inscription:** X50+  
—

1934

**Reference marks:** None**On-site facilities:** None**Horizon mask:** < 15° in all directions.**Description:** From junction of US 50 and Utah highway 24 (on the west side of Salina), go west on US 50 for 1.85 miles and turn right (north) on "2500 WEST CALIFORNIA AVE." Go North for 0.45 miles and turn left (west) on "450 NORTH". Go west for 0.40 miles to point. Point is 15 feet south of side of road, and between 2 entrances of driveway.**Sketch/Photos:**



**Point:** G250

**Name:** STEVES MOUNTAIN

**Coordinates:** 38 54 15.709 -111 44 17.982 1774.35 m

**Map:** Steves Mtn., Utah. 1966. 1:24,000.  
Salina, Utah. 1980. 1:100,000.

**Access:** Open, 2WD.

**Mark type:** Stainless steel rod cemented into drill hole in rock. USGS/JPL.

**Inscription:** 3214 S

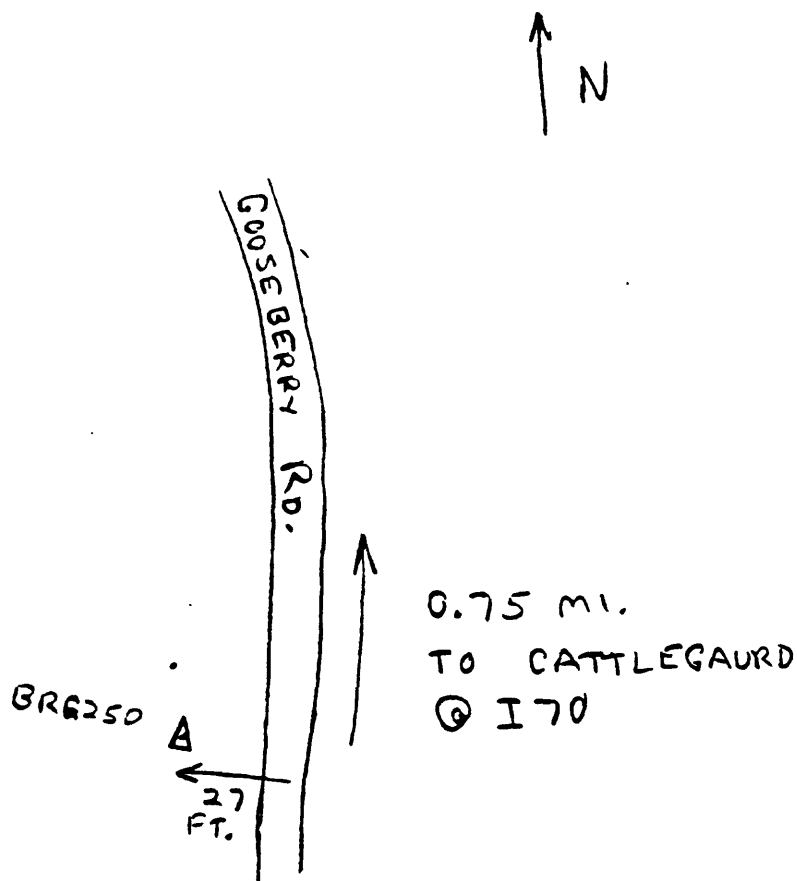
**Reference marks:** None

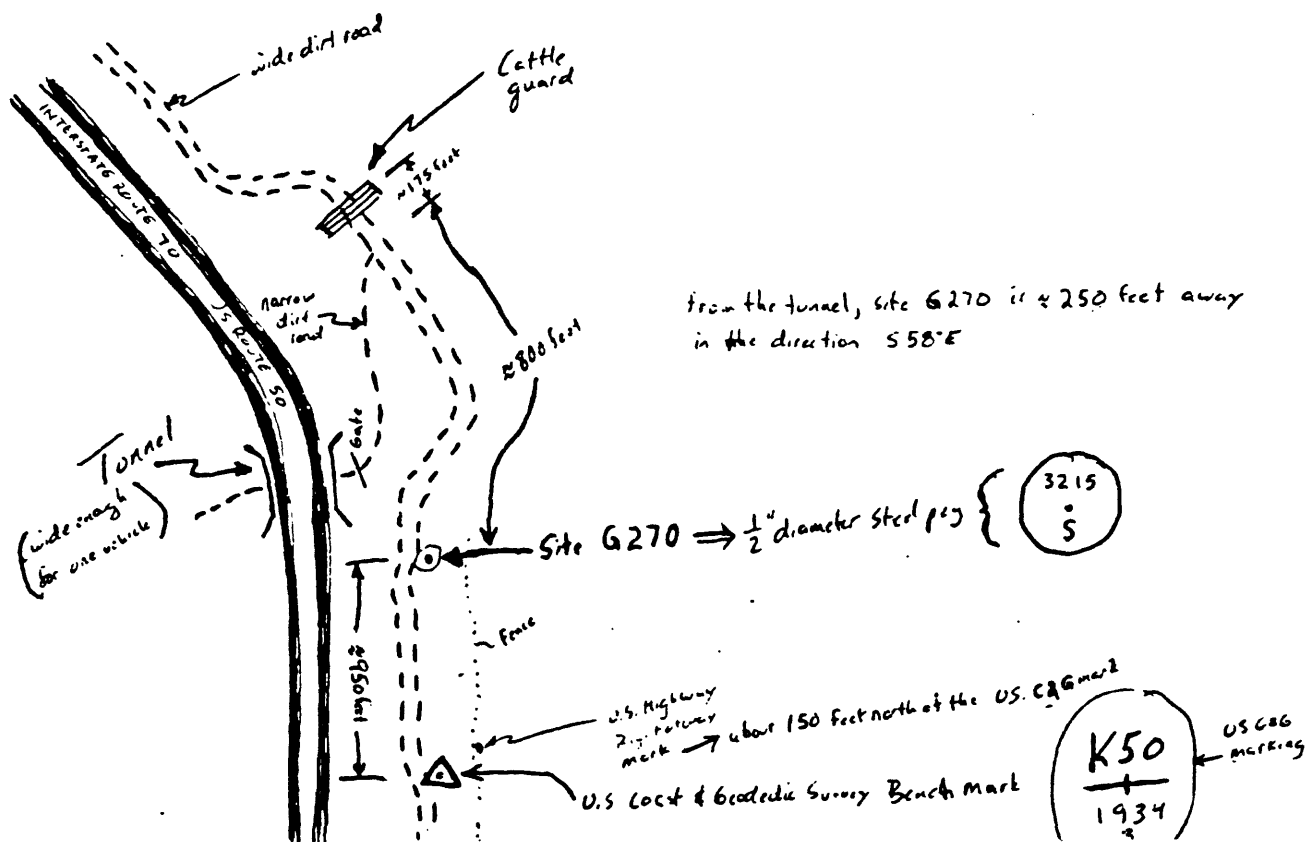
**On-site facilities:** None

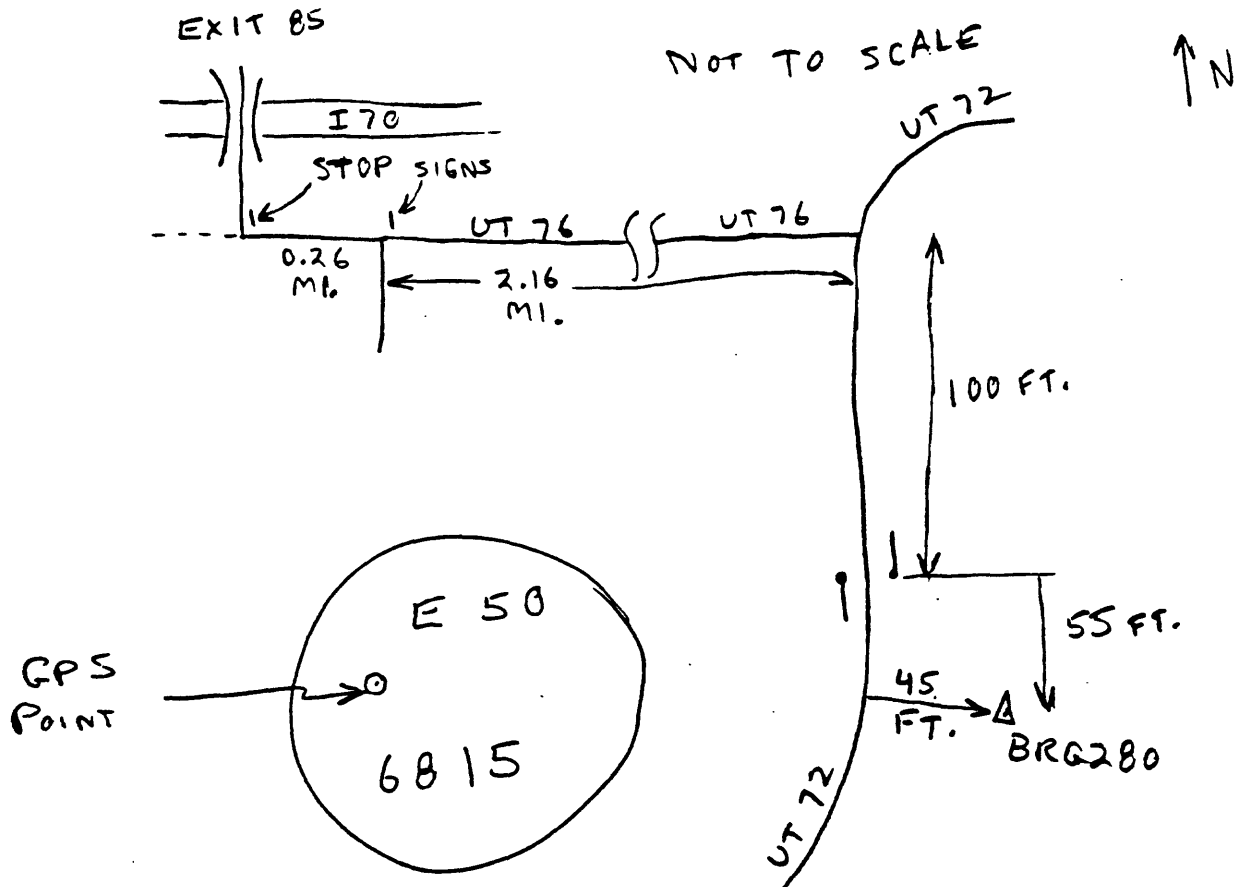
**Horizon mask:**  $< 15^\circ$  in all directions.

**Description:** From the cattle guard on Gooseberry Rd. (Exit 61 from US 50/I 70, about 8 miles east of Salina) go south for 0.75 miles. Point is in sandstone outcrop about 27 feet west of the center of this road. Cairn built over point, 1992.

**Sketch/Photos:**



**Point: G270****Name:** YOGO CREEK**Coordinates:** 38 50 20.952 -111 32 12.365 2153.64 m**Map:** Yogo Creek, Utah. 1966 Photorevised 1978. 1:24,000.  
Salina, Utah. 1980. 1:100,000.**Access:** Open, 2WD.**Mark type:** Stainless steel rod cemented into drill hole in rock. USGS/JPL.**Inscription:** 3215 S**Reference marks:** USC&GS benchmark K50 1934, about 950 ft. south of point.**On-site facilities:** None**Horizon mask:** < 15° in all directions.**Description:** From I 70, take "Ranch Exit 71" (about 17 miles east of Salina). From the cattle guard north of the exit, go east on a paved road for 1.08 miles and turn right (south) on a dirt road that parallels I 70 for 2.75 miles (about 800 ft. past the turnoff of a narrow dirt road that goes through a tunnel under I 70). The point is in a sandstone outcrop about 35 feet east of the center of the road. A small tree and a large boulder are a few feet south of the point.**Sketch/Photos:**

**Point: G280****Name:** OLD WOMAN PLATEAU**Coordinates:** 38 45 17.710 -111 22 51.700 2060.43 m**Map:** Old Woman Plateau, Utah. 1968 Photorevised 1978. 1:24,000.  
Salina, Utah. 1980. 1:100,000.**Access:** Open (BLM), 2WD.**Mark type:** Brass plaque set in concrete pier. Agency unknown.**Inscription:** E 50  
6815**Reference marks:** None**On-site facilities:** None**Horizon mask:** Visibility obscured up to 30° northeast through southeast and northwest through southwest. Visibility > 15° in all other directions.**Description:** From I 70 eastbound, take exit 85 (about 35 mi. east of Salina). From the intersection at the south end of the overpass, go east for 0.26 miles to (the western terminus of) Utah highway 76, and follow it east for another 2.16 miles to the junction with Utah highway 72. Turn right (south) on Utah 72 and go about 100 feet to a steel highway gate. The point is about 55 feet south of the gate and about 45 feet east of the center of the road. It consists of a rough brass disk set in a concrete pier. The GPS point is the punched dot.**Sketch/Photos:**

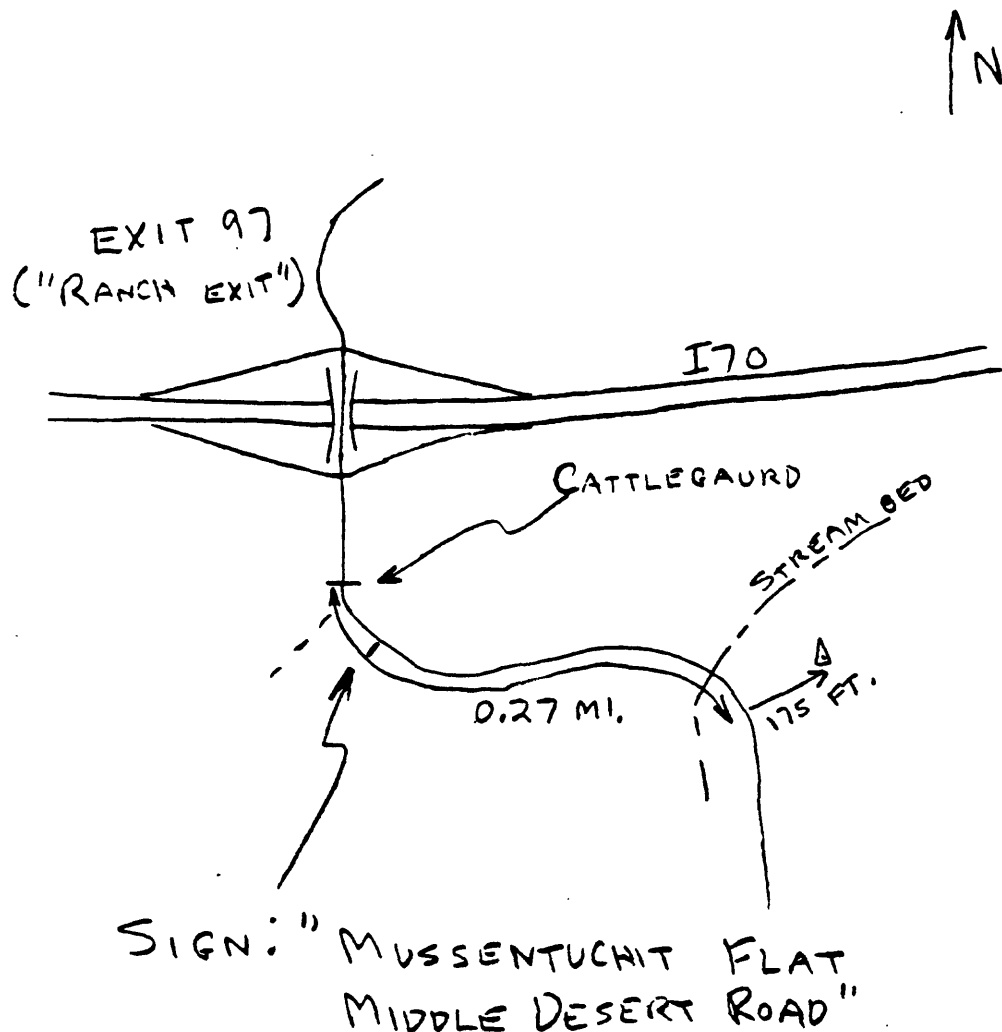
**Point: G290****Name:** MESA BUTTE**Coordinates:** 38 48 27.422 -111 12 20.004 1714.15 m**Map:** Mesa Butte, UTAH. 1968 PHOTOREVISED 1978. 1:24,000.  
Salina, Utah. 1980. 1:100,000.**Access:** Open, 4WD advisable.**Mark type:** Bronze plaque on steel rod driven into soil. U.S. General Land Office Survey section-corner marker.

Quite rigid.

**Inscription:** T23S R6E

S14 | S13

S23 | S24

**Reference marks:** None**On-site facilities:** None**Horizon mask:** < 15° in all directions.**Description:** From I 70 about 45 mi. east of Salina, take Exit 97 ("Ranch Exit") and go south on paved road to cattle guard where pavement ends (1992). Continue southeast on dirt road for another 0.27 miles. Point is about 175 feet northeast of road, and consists of a steel (?) and bronze section - corner marker, with a white plastic pipe about 3 feet high next to it (48 inches in direction N 40°E).**Sketch/Photos:**

**Point: G300****Name:** COVE FORT**Coordinates:** 38 36 8.407 -112 35 37.248 1799.02 m**Map:** Cove Fort, Utah. 1962. 1:62,500.

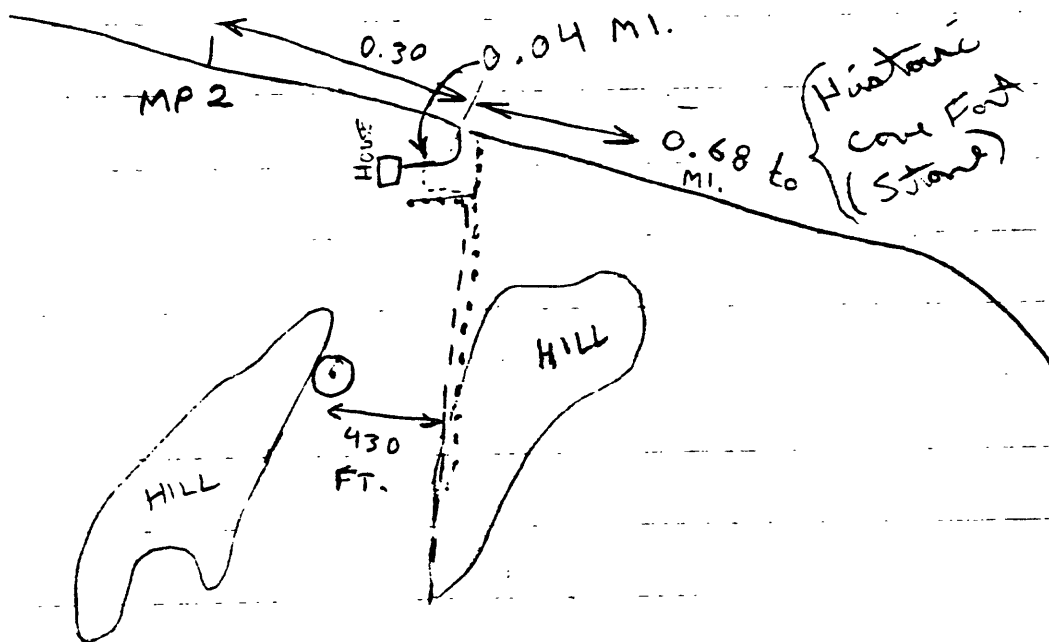
Richfield, Utah. 1980. 1:100,000.

**Access:** Open, 2WD, 4WD or carry battery 400 feet.

Point is reached across property of Mr. Steve Pratt, Cove Fort, UT 84713.

**Mark type:** Stainless steel rod cemented into drill hole in rock. USGS/JPL.**Inscription:** 3213 S**Reference marks:** None**On-site facilities:** None**Horizon mask:** < 15° in all directions.

**Description:** From Historic Cave Fort (stone building, signposted from I-15 and I-70) go northwest along paved road for 0.68 miles and turn left into driveway of Mr. Steve Pratt. (Driveway is 0.30 miles southeast of milepost 2). Go through gate at southeast corner of his yard and follow dirt road south along west side of fence for 0.30 miles. Point is about 430 feet west of the dirt road near the edge of the trees, in a quartzite (?) boulder. It is OK to drive off the dirt road to the point to ease luggage handling efforts.

**Sketch/Photos:**

**Point:** H100

**Name:** RED POINT

**Coordinates:** 39 17 35.759 -111 1 13.360 1809.94 m

**Map:** Red Point, Utah. 1979. 1:24,000.  
Manti, Utah. 1981. 1:100,000.

**Access:** Open (BLM), 2WD vehicle in good weather when road is dry. 4WD vehicle if road is wet. Possibly impassable in foul weather. Short hike at end of truck travel.

**Mark type:** Brass plaque mounted on mast. BLM.  
Section marker - a brass cover riveted to a 2-inch iron pipe set firmly into alluvium.

**Inscription:** T 17S R8E T18S 1970  $\frac{S33}{S4} \mid \frac{S34}{S3}$

**Reference marks:** None

**On-site facilities:** None

**Horizon mask:** < 5° in all directions.

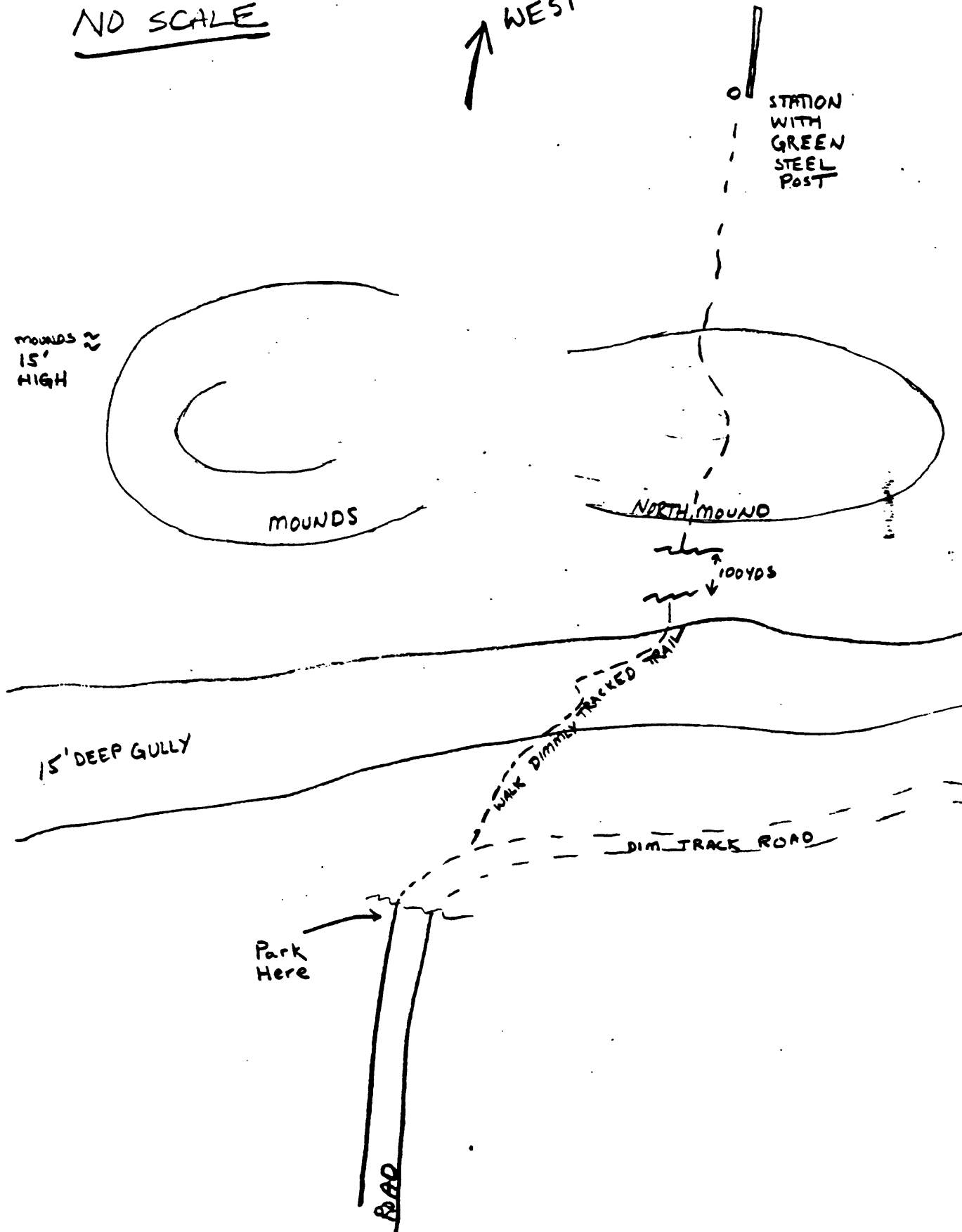
**Description:** From the Huntington Town/City Hall, across the street from the Energy West Mining Company, go south on Utah highway 10 for 2.6 miles to a side road right (west). Turn right, traveling on graded road for 1.3 miles to a Y intersection. Stay straight (right fork) on graded road for 0.2 miles to cattle guard and channelized creek crossing. Cross both and continue on graded road for 0.1 miles to side road left. Turn left (west) (at small shed and cottonwoods), follow cement channel uphill for 0.1 miles to 3-way fork. Stay right, crossing over large channel with fences. Crossing channel take hard left following fence line for 0.1 miles (do not go straight after crossing channel or pass under large transmission lines to north) to a fork. Take right fork (west) for 0.3 miles to a 4-way intersection under power lines. Stay straight (west) for 0.2 miles to side road right. Continue straight (west) for 0.3 miles to gully, dim track road right and end of truck travel. Pack 200 yards west to mark.  
From parking place go west down through gully and up other side. Continue towards northern of two small humps. From humps (mounds) continue west to station, witness post. The witness post is visible from top of humps but not from end of truck travel.

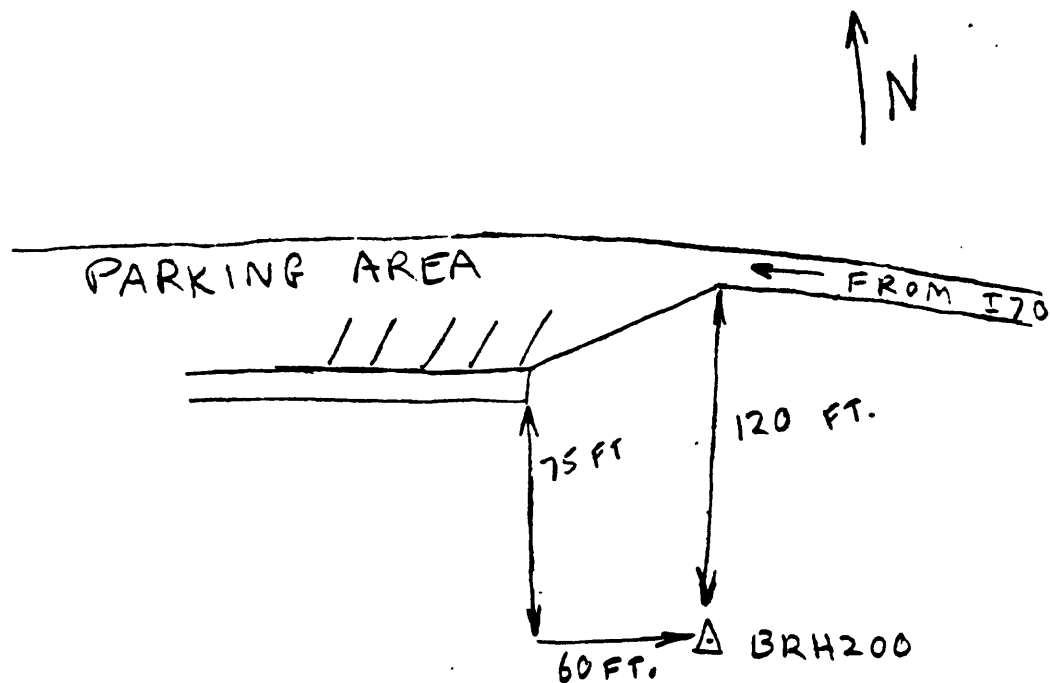
**Sketch/Photos:**

Point: H100 (continued)

NO SCALE

↑ WEST



**Point: H200****Name:** BIG BEND DRAW**Coordinates:** 38 49 57.444 -111 6 41.177 1785.23 m**Map:** Big Bend Draw, Utah. 1983. 1:24,000.  
Salina, Utah. 1980. 1:100,000.**Access:** Open (BLM), 2WD.**Mark type:** Stainless steel rod cemented into drill hole in rock. USGS/JPL.**Inscription:** 3216 S**Reference marks:** None**On-site facilities:** None**Horizon mask:** < 15° in all directions.**Description:** At rest area near milepost 103 on I 70 westbound. (From I 70 eastbound, take "Ranch Exit" near milepost 106 and get back on I 70 going west). The rest area is north of I 70 and the point is about 75 feet south of, and 60 feet east of, the southeast corner of the sidewalk. It consists of a stainless steel rod cemented into a hole in a sandstone outcrop.**Sketch/Photos:**



**Point: H300****Name:** CATHEDRAL MOUNTAIN**Coordinates:** 38 28 58.087 -111 21 32.407 1952.87 m**Map:** Cathedral Mountain, Utah. Provisional edition 1985. 1:24,000.

Loa, Utah., 1980. 1:100,000.

Also needed for approach: Salina, Utah. 1980. 1:100,000.

**Access:** Open, National Park. The station can be accessed by 2WD only during dry road conditions. A 4WD is suggested as road is long and rough. A short hike is necessary at end of truck travel and a pack would be useful. Road may not be passable in wet conditions. Contact Park Service for information.**Mark type:** Brass plaque mounted on mast. US General Land Office Survey. Section Marker,. Brass cap riveted to a 2" iron pipe which sets 6-8" above the ground surface.**Inscription:**  
T27S R5E  
S4 | S3  
S9 | S10**Reference marks:** None**On-site facilities:** None**Horizon mask:** < 15° in all directions.**Description:** From exit 89 (the turnoff to Utah highway 10) from US 50/I 70 (about 38 miles east of Salina, UT), turn south onto dirt road. Travel 1.9 miles to Y-junction. Take right fork, downhill into valley for 3.8 miles to cattle guard. Go straight for 0.7 miles to a side road right. Stay straight on main road for 1.0 miles to side road left and sign "Last Chance Ranch 8, Cathedral Valley 17". Stay right towards Cathedral Valley for 3.8 miles to Y-fork. Stay right for 1.2 miles to fence line and cattle guard, at base of canyon. Continue straight for 1.8 miles to side road right. Stay straight on main road for 2.3 miles to side road left. Stay on main road for 0.2 miles to dim truck road right. Stay straight on main road for 0.6 miles to fence line and cattle guard. Continue on main road (passing Solomons Temple on left) for 2.5 miles to another fence line. Continue straight 1.4 miles on main road to side road left and sign Cathedral Valley 5. Turn left towards Cathedral Valley. Travel for 1.0 miles to fork and sign "8 Upper Cathedral Valley, 28 highway U-24". Turn right towards Cathedral Valley for 1.35 miles to cattle guard and park entrance sign. Continue on main road passing closest approach to a very deep resistive sandstone cliff (unknown name) for 1.65 miles to fence line. Continue downhill for 0.7 miles to a "T" intersection and sign "Upper Cathedrals 3, Hartmet, Lower Cathedral, Gypsum Sinkhole, highway U-24". Turn right toward Upper Cathedrals and travel 0.4 miles to another fence line. Continue straight through wash (with water) for 2.2 miles to closest approach to Needle Mtn. on right. Continue straight through "U" turn switchback through wash (0.6 miles). Continue 0.1 mile to end of truck travel and hike to station on left. Park truck between Section 3 and 4 and between the two wash gullies that cross the road. The station is a 200 yards walk SSW (bearing 200°) from this point.See map. From parking place line up tree on cliff to south with western creek bed that crosses road and mark bearing. Walk from parking place through gap in trees SSW to point that crosses bearing set from gully to tree on cliff.**Sketch/Photos:**

Point: H300 (continued)

