Caravancahua

RECORD

Cruise #2
July 1981

LAMAL

7530-00-222-3525
FEDERAL SUPPLY SERVICE
(GPO)

HDG. 135

HDG 130

HDG 150

HDG 105 Start Line 2 heading more offshore

DATE/TIME	STA. W	STA. Y	LINE/STA. PT
JD190/12:50 Z	12212.2	470 49.5	1/1
55	16.0	48.2	2
1300	20.1	47.0	3
05	23.9	45.7	4
10	27.9	44.5	5
15	32.0	43.4	6
20	36.4	42.2	7
25	40.4	41.2	8
30	44.1	40.0	9
35	48.2	39.0	10
40	52.2	38.0	11
45	56.1	37.0	12
50	60.1	35.9	13
55	64.2	34.8	14
1400	67.8	33.6	15
1405	71.8	32.3	16
1410	75.5	30.9	17
15	78.3	29.5	18
20	81.1	27.9	19
25	83.9	26.4	2/20
30	88.2	25.4	21
35	92.9	24.8	22
40	97.7	24.0	23
45	302.5	23.2	24
50	307.5	22.7	25
55	11.8	22.1	26
1500	16.7	21.4	27
05	21.5	20.8	28
10	29476.2 STN X	20.3	29

Missed

End of Roll # 1 (small) EOL # 2 Depth
Begin line 3 Heading 245°

Started fathometer

		X	Y	
190 /	15:15	80.4	19.9	2/30
	20	84.5	19.6	31
	25	88.4	19.1	32
	30	92.2	18.7	33
	35	95.9	18.3	34
	40	99.8	17.8	35
	45	502.8	17.6	36
	50	506.5	17.0	37
	55	510.9	16.5	38
	16.00	14.2	16.1	39
	0.5	17.9	15.6	40
	10			41
	15	25.9	14.7	42
	20	29.4	13.8	43
	25	33.0	13.4	44
69'	30	29536.6	47012.8	EOL2 45
	35	534.0	11.8	SOL3 46
	40	29.0	11.0	47
	45	23.8	10.0	48
	50	—	—	49
	55	13.2	8.0	50
	1700	29508.0	47007.1	51
	05	02.7	06.3	52
	10	29497.2	05.3	53
	15	92.0	04.5	54
	20	86.8	03.7	55
	25	81.5	027	56
	30	75.8	023	57
	35	69.6	01.3	58
	40	—	—	3/59

slight slow down

Speed now around 3.6-4 knots

0.5 m offshore

EOL
Start of line 4
Course 150°
Course 165° Depth 18'

T.O 190 Time	X	Y	Line	Shot Pt.
1745	29459.5	46999.5	3	60
1750	54.3	98.7		61
55	48.6	97.8		62
1800	—	—		63
05	—	—		64
10	—	—		65
15	28.2	94.2		66
20	22.8	93.3		67
25	18.1	92.3		68
30	13.4	91.5		69
35	408.7	990.6		70
40	404.0	989.7		71
45	399.4	988.8		72
50	395.5	988.0		73
55				74
1900	391.7	986.3	4	75
05	92.3	85.3		76
10	—	—		77
15	92.3	82.6		78
20	91.7	81.1		79
25	91.2	79.8		80
30	90.5	78.2		81
35	89.8	77.1		82
40	89.0	75.7		83
45	88.4	74.2		84
50	87.6	72.7		85
55	86.9	71.1		86
2000	85.9	69.5		87
05	-	-		88

EOL #4 depth 32' Course change 265°

Start tape 4

Change course to 250°

Course change 270°

Course change 300°

	X	Y	Line	Shot Pt
2010	—	—	4 /	89
15	84.3	65.3		90
20	83.8	63.9		91
25	—	—		92
30	83.0	61.3		93
35	82.6	60.0		94
40	82.3	58.8	5 /	95
45	78.4	58.5		96
50	129373.9	46958.1		97
55	69.8	58.0		98
2100	65.9	57.2		99
05	—	—		100
10	57.5	56.2		101
15	53.5	55.5		102
20	49.3	54.8		103
25	45.5	54.7		104
30	41.6	54.6		105
35	—	—		106
40	31.8	54.3		107
45	—	—		108
50	21.4	54.1		109
55				110
2200	10.6	53.7		111
05	05.6	53.6		112
10	—	—		113
15	99.6	53.4		114
20	97.4	53.4		115
25	94.9	53.3		116
30	92.1	53.0		117

Course 020° Depth ~13' EOL 5 Begin line 6 NNE to NHI

EOL 6 - BAD ASS THUNDER
STORM UPON US
Overnight at New Harbour Islands

Start of Line 7 (Friday)
Fooling with sled till 14:26

Course change 010

	X	Y	Line
2235			5 / 118
40	29288-1	469 53.9	119
45	86.0	54.5	120
50	—	—	121
55	80.0	55.7	6 / 122
2300	—	—	123
05	85.4	58.1	124
10	—	—	125
15	92.9	61.1	126
20	96.8	62.6	127
25	29300.7	64.1	128
30	03.8	65.7	129
33	05.8	67.1	130

End of Day 190

Start of Day 191

191	1410	371.6	991.7	7 / 131
	15	374.8	992.5	132
	20	—	—	—
	25	—	—	133
	30	380.9	994.4	134
	35	83.2	95.6	135
	40	85.6	96.8	136
	45	87.9	98.1	137
	50	90.2	99.3	138

Course change 100°

Gently Back out on 290°

Over the edge of the fan

EOL 8

Course 350° Start of line 9 heading N to lighthouse Enchanted

Passing North Inlet

191 14557	X	Y	Line 7	Shotpoint 139
1500	293 94.5	470 01.6		140
05	96.4	02.8		141
10	99.4	02.7		142
15	294 02.0	02.5		143
20	04.2	2.5	EOL 7	144
25			SOL 8	145
1530	02.0	02.6		146
35	99.9	02.8		147
40	97.6	02.9		148
45	95.0	03.1		149
50	92.0	3.4		150
55	89.4	03.6	EOL 8	151
1600	88.1	03.8	Start L9	152
05	88.3	04.8		153
10	89.5	06.1		154
15	90.4	07.3		155
20	90.9	8.6		156
25	91.8	09.9		157
30	92.6	11.2		158
35	93.5	12.4		159
40	94.2	13.7		160
45				161
50				162
55	96.8	17.4		163
1700	97.4	19.0		164
05	98.3	20.3		165
10	—	—		166
15	400.0	230		167
20	01.1	24.5		168

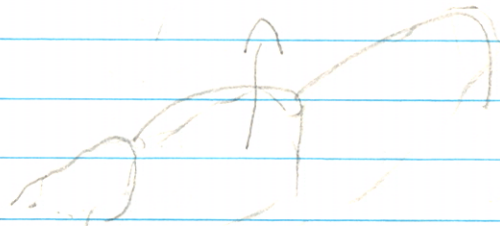
Change to 330
Change to 050°

EOL in now going S

Bearing 230° Begin out part of L at 1002.23

Speed 3.3 kn
Going over bars

Begin line 11 Course 350°



changing to
station W

Course 080°

Course 070°

	X	Y		
1725	29402.6	47026.1		9/169
30	04.1	27.5		170
35	03.4	28.9		171
40	07.0	29.8		172
45	09.8	30.3		173
50	12.4	30.7	EOL 9	174 Begin Line 10
55	13.1	30.3		175
1800	14.0	30.1		176
05	11.9	29.5		177
10	08.5	28.8		178
15	04.8	27.9		179
20	00.8	27.1		180
25	97.0	26.3	EOL 10	181
30	—	—	SOL 11	182
35	97.7	28.8		183
40	98.4	30.2		184
45	99.8	31.6		185
50	W	Y		
1750	12236.2	47033.1		186
55	35.4	34.4		187
1800	34.8	35.8		188
05	33.9	37.2	EOL 11	189
10	37.2	37.9	SOL 12	190
15	41.0	38.1		191
20	45.0	38.5		192
25	49.1	38.7		193
30	53.4	39.1		194
35	57.7	39.5		195
40	62.2	40.1		196
45	66.3	40.3		197

321
449

Good records beginning Course change 090°

Depth ~ 35' Course change 230° End of L12 Begin L13 back in

Change course to 240°

SLOW DOWN TO ≈ 3.4 KNT.
EOL 13

Time	W	Y		
19 50	70.2	40.7		12 / 198
55	74.5	40.8		199
20 00	78.8	40.8		200
05	83.3	40.7		201
10	87.3	41.1		202
15	291.7	041.0	EOL 12	203
20	89.4	39.9		204
25	86.5	39.0		205
30	83.2	38.0		206
35	80.3	37.1		207
40	77.1	36.2		208
45	73.5	35.3		209
50	12269.8	47034.5		210
55	66.2	33.8		211
2100	62.5	33.1		212
05	58.7	32.3		213
10	55.9	31.8	EOL 13	214

at CI N^th Profile
Nr Camp on 3rd bar

July 11, 1981

Hdg 120°

Lost Record quality

Record back

Change paper

DATE/TIME	W	Y	LINE/SP. NO.
192/1925	121 74.0	470 68.7	14/215
30	77.1	68.5	216
35	81.6	68.2	217
40	86.8	67.8	218
45	92.0	67.2	219
50	97.2	66.3	220
55	202.7	65.5	221
2000	07.4	64.6	222
05	11.7	63.9	223
10	15.8	63.2	224
15	19.4	62.5	225
20	23.0	62.0	226
25	26.7	61.3	227
30	30.9	60.5	228
35	34.1	60.3	229
40	38.7	59.8	230
45	43.4	59.4	231
50	48.4	59.2	232
55	53.6	59.0	233
2100	58.8	58.7	234
05	64.1	58.4	235
10	69.1	58.1	236
15	74.1	57.7	237
20	78.9	57.3	238
25	83.8	56.8	239
30	88.6	56.3	240
35	93.5	55.8	241
40	98.2	54.9	242

chg. course 135°

EOL 14

SOL 15 Course 245°

Belt change

SOL 16 Course 110°

DATE/TIME	W	Y	LINE/STA. PT.
192/ 21:45	12302.8	47054.3	14/ 243
50	07.4	53.7	244
55	11.9	52.7	245
2200	16.3	52.2	246
05	21.1	51.4	247
10	25.7	50.5	248
15	30.1	49.7	249
20	33.7	48.4	EOL 14 250
25	30.2	47.8	SOL 15 251
30	26.1	47.1	252
35	22.1	46.3	253
40	17.7	45.6	254
45	14.0	44.9	255
50	10.0	44.0	256
55	06.1	43.3	257
2300Z	02.2	42.6	258
05	12298.4	41.7	259
10	294.6	40.8	260
15	—	—	261
20	86.9	39.3	262
25	82.3	38.4	EOL 15 263
193 1250	12271.5	47043.1	SOL 16 264
55	76.0	42.5	265
1300	80.0	41.9	266
05	—	—	267
10	89.0	40.4	268
15	93.3	39.9	269

Record quality down ↗

Record quality up ↗

Course 180°

lost Record quality

EOL 17
Switching to Loran sta. X
SOL 18

JD	Time	Station W	Station Y	Line	Shotpoint
193	1320Z	122 —	470 —	16	270
	1325	123 02.0	470 38.3		271
	30	07.1	37.7		272
	35	11.3	37.1		273
	40	16.0	36.6		274
	45	20.6	36.0		275
	50	25.2	35.3		276
	55	29.9	34.8	EOL 16	277
	1400	31.0	33.0	SOL 17	278
	05	32.0	31.8		279
	10	33.0	30.2		280
	15	33.6	28.8		281
	20	34.4	27.3		282
	25	34.8	25.9		283
	30	—	—		284
	35	35.5	22.8		285
	40	35.9	21.2		286
	45	36.3	19.5		287
	50	36.5	17.9	EOL 17	288
		Sta. X	Sta. Y		
193	1455	294 80.3	470 16.4	SOL 18	289
	1500	missed			290
	1505	72.5	13.5		291
	10	68.7	12.2		292
	15	64.9	10.6		293
	20	60.8	09.3		294
	25	56.6	07.8		295
	30	52.5	06.5		296
	35	48.6	5.1		297

270 course change

EOL 13 SOL 19

EOL 19 SOL 20 180°

DATE/Time	X	Y	LINE/SP
193 1540	294 44.8	47003.5	18/298
43	42.1	02.6	
45	40.6	02.5	299
50	35.7	02.6	300
55	31.1	02.9	301
16 00	26.1	02.8	302
05	20.9	02.7	303
10	15.8	02.6	304
1612	14.0	2.6	EOL 18 SOL 19 305
15	15.4	2.1	306
20	18.0	1.3	307
25	22.0	00.3	308
30	24.8	46 99.2	309
35	27.2	98.1	310
40	25.6	97.0	311
45	22.0	95.7	312
50	34.5	94.5	313
55	36.6	93.3	314
1700	38.9	92.0	315
05	40.6	90.7	EOL 19 316
10	42.4	89.3	SOL 20 317
15	41.0	87.5	318
20	39.8	85.8	319
25	—	—	320
30	37.2	82.5	321
35	36.4	80.7	322
40	35.0	79.0	323
45	33.5	77.4	324

change course to 220°

DATE/TIME	X	Y	LINE/S.P.
193/1750	29431.5	46975.6	20/325
55	30.0	73.8	326
1800	28.1	72.1	327
05	25.7	70.2	328
10	23.7	68.4	329
15	21.7	66.8	330
20	19.9	65.0	331
25	18.4	63.1	332
30	16.4	61.2	333
35	13.7	59.3	334
40	09.1	57.9	335
45	04.9	56.4	336
50	00.4	54.8	337
55	293 95.4	53.5	338
1900	90.8	952.1	339
05	86.3	50.8	340
10	82.1	49.4	341
15	—	—	342
20	73.4	46.7	343
25	68.7	45.5	344
30	64.0	44.4	345
35	59.0	43.6	346
40	53.9	42.5	347
45	48.9	41.7	348
50	44.5	41.0	349
55	39.0	40.0	350
2000	33.9	39.2	351
05	29.5	38.4	352
10	24.7	37.4	353

CH CRSE 250'

Date/Time	Station X	Station Y	Line No. / Point
193 2015	29321.7	469 36.5	20/354
20	17.0	35.0	355
25	12.7	33.6	356
30	08.6	32.4	357
35	04.6	31.1	358
40	00.2	30.0	359
45	29295.3	28.7	360
50	91.5	27.7	361
55	87.0	26.5	362
2100	82.9	25.3	363
05	78.7	24.1	364
10	74.7	23.0	365
15	70.3	21.6	366
20	66.1	20.7	367
25	61.8	19.4	368
30	57.5	18.2	369
35	52.6	16.9	370
40	47.6	16.0	371
45	42.7	14.5	372
50	37.9	13.2	373
55	32.8	11.9	374
2200	27.5	11.3	375
05	22.0	10.8	376
18	—	—	377
15	11.1	09.4	378
20	05.6	08.8	379
25	29199.8	07.9	380
30	194.1	07.1	381
35	188.3	06.2	382

change course 270°

crossing channel

SOL 21

stop to fix towing

Date/Time	Station X	Station W	Line / Shot Point
193 2240	29182.4	46905.6	20 / 383
45	76.6	05.5	384
50	71.1	04.6	385
55	65.3	04.2	386
2300	59.6	03.7	387
2305	54.0	03.4	388
10	48.6	02.9	389
15	43.1	02.6	390
20	37.9	02.6	391
25	32.7	02.7	392
30	27.6	02.6	393
35	22.6	02.4	394
40	17.4	02.5	395
45	12.7	02.5	396
50	08.2	02.8	397
55	04.1	03.2	398
2300	—	—	399
194 1315	29085.6	46906.7	21 / 400
1320	89.7	07.5	401
1325	95.0	08.5	402
30	99.0	09.5	403
35	29105.3	10.4	404
40	10.5	11.3	405
45	16.0	12.8	406
50	21.2	14.2	407
55	26.5	15.3	408
1400	32.0	16.5	409
05	37.7	17.8	410

Back on Line

one minute late

chang course to 05°

DATE/TIME	X	Y	LINE/ SP
194/ 1412	—	—	—
15	29146.5	46920.0	21/411
20	52.1	21.1	412
25	57.8	22.2	413
30	63.6	23.5	414
35	69.3	24.7	415
40	75.1	25.5	416
45	80.7	26.5	417
50	86.6	27.5	418
55	91.5	28.3	419
1500	96.6	29.2	420
05	29201.2	30.4	421
10	05.9	31.2	422
15	10.6	32.4	423
20	15.2	33.4	424
25	19.5	34.8	425
30	23.9	35.9	426
35	28.0	37.1	427
40	32.3	38.3	428
45	36.6	39.7	429
50	40.9	41.0	430
55	45.5	42.3	431
1601	51.3	43.8	432
05	54.7	44.7	433
10	59.6	45.7	434
15	64.0	47.1	435
20	68.3	48.4	436
25	72.6	49.8	437
30	74.9	51.4	438

one minute late

Channel below
Started Bathymetry

CH. HEADING 350°

" 015°

" 345

" 350°

Date/Time	Station X	Station Y	Line / Shot point
194 1636z	292 77.5	469 53.2	21 / 439
1640	79.2	54.1	440
45	81.4	55.7	441
50	83.9	56.9	442
55	86.1	58.5	443
1700	88.6	59.8	444
05	91.5	61.3	445
10	94.0	63.2	446
15	96.8	64.7	447
20	99.7	66.3	448
25	293 02.2	67.8	449
30	05.4	69.7	450
35	07.5	71.1	451
40	09.6	72.8	452
45	12.6	74.5	453
50	15.1	76.1	454
55	17.1	77.9	455
1800	19.7	79.7	456
1805	20.8	81.3	457
10	22.3	82.9	458
15	23.4	84.7	459
20	24.9	86.5	460
25	26.5	88.1	461
30	27.9	90.0	462
35	29.6	91.8	463
40	31.1	93.7	464
45	32.6	95.5	465
50	34.3	97.3	466
55	36.0	99.2	467

End bathymetry

Changing to Station W

one minute late

one minute late

DATE/TIME	STA X	STA Y	LINE/SH. PT.
194/ 1900	29337.2	47001.0	21 / 468
05	38.7	02.7	469
10	40.1	04.4	470
15	41.2	06.1	471
20	42.6	08.0	472
25	43.8	09.7	473
30	45.5	11.5	474
35	46.8	13.5	475
	Station W	Station Y	
1940	12205.4	47015.3	476
45	04.5	17.1	477
50	02.9	18.9	478
55	01.3	20.5	479
2000	12199.8	22.5	480
05	98.4	24.1	481
10	97.1	25.9	482
16	95.2	28.1	483
20	94.1	29.4	484
25	92.6	30.9	485
30	91.1	33.0	486
35	89.5	34.6	487
40	88.1	36.1	488
46	86.3	38.3	489
50	85.6	39.5	490
55	84.3	41.3	491
2100	83.0	43.0	492
05	81.7	44.6	493
10	80.1	46.2	494
15	79.3	47.7	495

One minute late

getting record now } One minute late
Bell change

start of day 7/14/81

80°
0° turning into shore

turning to 150°

turning to 90°

DATE/TIME	U	Y	LINE/SP
A4/ 20	121 78.3	47049.2	21/496
25	77.3	51.0	497
31	76.2	52.8	498
35	75.5	54.2	499
40	74.4	55.8	500
45	73.4	57.2	501
51	72.1	59.1	502
55	71.3	60.3	503
2200	70.2	61.7	504
05	69.1	63.2	505
10	68.2	64.5	506
15	67.2	65.5	507
20	66.0	67.0	508
25	64.4	68.2	509
195/1755	12297.7	47075.1	22/510
1800	123 03.2	74.9	511
1805	09.3	74.6	512
1810	14.9	74.4	513
15	19.9	74.4	514
20	25.1	74.7	515
25	30.0	74.6	516
30	34.8	74.8	517
35	36.9	76.0	518
40	37.5	77.4	519
45	38.4	78.8	520
50	41.7	77.9	521
55	44.5	76.7	522

Heading 100°

" 105°

HEADING 135°

Date/Time	Station W	Station V	Line/SP
195 1900Z	123 49.1	470 76.5	22/523
05	54.1	76.3	524
10	59.3	76.4	525
15	64.8	76.3	526
20	69.7	76.2	527
25	74.9	75.9	528
30	79.7	75.8	529
35	84.8	85.6	530
40	89.7	75.3	531
45	94.8	74.9	532
50	99.9	74.6	533
55	1240 4.9	74.3	534
2000	10.1	74.0	535
05	15.2	73.8	536
10	20.3	73.4	537
15	25.3	73.1	538
20	30.0	72.9	539
25	34.3	72.6	540
30	38.6	72.1	541
35	42.7	71.5	542
40	46.9	71.1	543
45	51.1	70.7	544
50	55.6	70.2	545
55	59.2	69.4	546
2100	62.5	68.0	547
05	66.0	66.6	548
10	69.7	65.1	549
15	73.5	63.6	550
20	77.3	62.2	551

Time reset on printer
change Hdg 015°

Hdg 035°

change belt

Hdg 025°

GOOD RECORDS

HDG TO 10°

" 00°
EOI 22

Hdg 050° SOL 23

Change 280°

DATE/TIME	W	Y	LINE/SP
195 / 2125	12481.1	47061.1	22 / 552
30	85.2	59.9	553
35	89.5	58.9	554
40	93.8	57.9	555
45	97.9	57.0	556
50	12501.9	47056.0	557
55	06.2	56.7	558
2200	10.5	57.7	559
05	14.7	58.7	560
10	18.8	59.5	561
15	23.0	60.7	562
20	26.9	62.0	563
25	30.5	63.2	564
30	33.8	64.4	565
35	36.1	65.9	566
40	38.5	68.2	567
45	40.8	68.7	568
50	43.2	70.0	569
55	45.7	71.2	570
2300	48.4	72.4	571
05	49.7	73.8	572
10	50.2	75.0	573
15	49.8	76.2	574
196 / 1325	—	—	50 25 / 575
30	47.6	70.9	576
35	44.5	70.0	577
40	41.6	69.1	578
45	38.4	68.3	579

Change Hdg 310°

290°

270°

280°

290°

EO/23 SO/24 200°

M 1

Had to go to 0.5 Fire

DATE / TIME	W	Y	LINE / SP
196 / 1350	12534.8	47068.3	03 / 580
55	32.4	69.2	581
1400	30.1	70.4	582
05	26.2	70.8	583
10	22.3	70.8	584
15	18.2	70.6	585
20	13.8	70.6	586
25	09.5	70.4	587
30	05.4	70.4	588
35	01.2	70.5	589
40	12496.7	70.8	590
45	92.5	70.1	591
50	87.8	71.5	592
55	83.3	71.7	593
1500	79.1	72.0	594
05	74.4	72.3	595
10	70.8	72.6	596
15	67.0	73.2	597
20	62.6	73.5	24 / 598
25	61.3	71.7	599
30	60.0	70.1	600
35	59.6	68.2	601
40	59.0	66.4	602
45	58.2	64.5	603
50	57.2	62.7	604
55	56.4	60.9	605
1600	55.6	58.9	606
05	55.4	57.0	607
10	54.4	55.1	608

Hdg 210°

SOL 24

Sparker down

slowed to adjust boomer

DATE / Time	W	Y	LINE / SP
196/ 165	12453.6	47053.0	24 / 609
20	51.8	51.1	610
25	50.0	49.1	611
30	47.8	47.1	612
35	46.1	45.3	613
40	43.6	43.5	614
45	41.4	41.7	615
50	39.1	39.9	616
55	36.8	38.2	617
1700	34.7	36.4	618
1705	32.9	34.8	EOL 24 / SOL 25 / 619
10	30.7	35.7	620
15	31.7	36.9	621
20	27.3	38.3	622
40	26.2	38.8	623
45	24.3	40.1	624
50	22.1	41.6	625
55	19.9	43.1	626
1800	17.5	44.5	627
05	15.2	45.8	628
10	13.0	47.1	629
15	11.4	48.7	630
20	09.6	50.1	631
25	—	—	632
30	07.0	52.5	633
35	05.2	54.0	634
40	03.4	55.5	635
45	01.9	56.8	636
50	00.3	58.3	637

slowed

SOL 26 EOL 25 220° hdg
240 hdg

SOL 27
LORAN DOWN
Heading to Dog Key
Bonny

DATE/Time	W	Y	LINE/SP
196 / 1855	12398.9	4705 9.7	25 / 638
1900	—	—	639
05	96.8	61.8	640
15	94.7	64.7	641
20	92.1	65.5	642
25	90.1	67.4	643
30	89.1	68.8	644
35	88.1	70.3	645
40	87.2	71.8	646
45	86.3	73.3	647
50	85.5	75.0	648
52	85.3	75.6	EOL 25 SOL 24 649
55	83.7	75.3	650
2000	80.3	74.1	651
05	76.6	73.2	652
10	70.0	72.3	653
15	69.2	71.3	654
20	65.5	70.4	655
25	61.7	69.4	656
30	58.0	68.5	657
35	54.1	67.6	658
40	50.7	66.5	659
45	47.6	65.4	660
50	—	—	661
55	—	—	662
2100	—	—	EOL 26 SOL 27 663
05	—	—	664
10	—	—	665
15	—	—	666

EOL 27 Bouy "1" Dog Key Pass

Day/Time	Station W	Station Y	Line/Shot Point	
196/2120	—	—	27	667
25	—	—		668
30	—	—		669
35	—	—		670
40	—	—		671
45	—	—		672
50	—	—		673
55	—	—		674
2200	—	—		675