YMP
USGS – NMD

113

GEODETIC LEVELING

AND

QUADRILATERAL SURVEYS
(GPS OBSERVATIONS)

1990 – 1991

STUDY PLAN 8.3.1.17.4.10 – GEODETIC LEVELING

BOOK 2 OF 2

APPENDIX:
GEODETIC LEVELING RESULTS: 1983 –1988
QUADRILATERAL OBSERVATIONS RESULTS: 1983 – 1988

INFORMATION ONLY

1983 - 1988 Leveling Results
1983 - 1988 Quadrilateral Results and Various Earlier Data

YMP
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GEODETIC LEVELING AND QUADRILATERAL SURVEYS

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BOOK 2: APPENDIX
GEODETIC LEVELING RESULTS: 1983 – 1988
QUADRILATERAL OBSERVATIONS RESULTS: 1983 – 1988

YUCCA MOUNTAIN PROJECT

NEVADA TEST SITE

1988 GEODETIC LEVELING AND TRILATERATION SURVEYS

NEVADA NUCLEAR WASTE STORAGE INVESTIGATIONS

Observers: Ibarra, Swanson, Perasso, Bray

National Mapping Division

Computations Book: MH 2324a

1988

YUCCA MOUNTAIN LEVELS (NTS) PROJECT

Quadrilaterals

The corner stations of the five quadrilaterals that were established during the spring of 1983 were reoccupied and the six legs of each quadrilateral were remeasured. Measurements were taken with the same infrared instrument we used during the 1985-86 work, Nikon ND-21, T-437896.

The Nikon ND-21 was calibrated on the National Geodetic Survey (NGS) Base Line at the Denver Federal Center prior to the fieldwork and upon completion of the work. The measured distances in the 500-meter range were within the accuracy standards as defined for the instrument: ±(0.003 m + 0.003 m/1000 m) in the -10°C to +40°C range.

Geodetic distances and relative elevations are listed for each quadrilateral for 1983, 1983-84, 1984, 1985-86, and 1988. Office computations were performed on the PRO-350 microcomputer.

Level Line

The 94-km level line and five spur lines to bedrock ties were reobserved to first-order, class 1 standards (standards established by the Federal Geodetic Control Committee, 1984). Single-run, double simultaneous procedures were employed for all of the existing sections. When the new elevation difference for a section did not agree with the previous first order, class 1 elevation difference within $3mm \sqrt{K}$, where K = section distance in kilometers, the section was double-run. One section, of the 136 sections in the 94-km line, had to be double-run.

The field closure at BM G408, orthometric correction applied, is well within first-order, class 1 standards.

1983, 1983-84, 1985-86, and 1988 elevation differences are provided for each section for comparison purposes.

Original field books for this work are stored at Rocky Mountain Mapping Center, Building 25, Denver Federal Center, Denver, Colorado.

Thomas K. Bray

Thomas K. Bray

NGS BASELINE, DENVER FEDERAL CTR

DIRECT READOUT EDM FIELD SHEET

INSTRUMENT	REFLECTOR #1
STATION 1014 POINT	TO STATION 900 POINT
INST. SER. NO. 7598	TYPE OF REFLECTOR
OPERATOR G. PERASSO	
RECORDER C. SWANSON	WEATHER CONDITIONS P.C. WARM, LT. BREEZE
DATE 4/20/88 TIME 1:20 P	REFL. HEIGHT 1.523 M
INST. HEIGHT 1.745 M	REFL. ECCENTRICITY
INST. ECCENTRICITY	
LIGHT SOURCE: LASER/INFRARED	
INST. CONSTANT	METEOROLOGICAL READINGS
REFL CONSTANT	ID | TEMP | PRESSURE
TOTAL OFFSET ±0.000 MTRS	INST | 71 50 | 6780
ENTERED IN INSTRUMENT OFFSET: YES / (NO) PPM: YES / (NO)	REFL | 70 52 | 6725
	MEAN 70.5 51
10K VALUE ENTERED: 0 / 1	PPM CORRECTION

SLOPE DISTANCE MEASUREMENT

ARITHMETIC MEAN OF 20 MEASUREMENTS. 514.476

1719.258 M

		REMARKS:
INST. STATION ELEV. (FT)	5690.6'	
INST. ELEV. (H_1) (FT)	5646.4'	1705.024 M
REFL. STATION ELEV. (FT)	5593.9'	
REFL. ELEV. (H_2) (FT)	5589.9'	
DISTANCE (D_1)	514476	
SUM OF CORRECTIONS	0.000	
SLOPE DISTANCE (D)	514.476	
INCLINATION CORRECTION		
HORIZONTAL DISTANCE		
SEA LEVEL CORRECTION		
GEODETIC DISTANCE (S)		

NGS BASELINE; DENVER-FORNEY CTR

DIRECT READOUT EDM FIELD SHEET

INSTRUMENT	REFLECTOR #4
STATION 1014 POINT	TO STATION 500 POINT
INST. SER. NO. 75898	TYPE OF REFLECTOR
OPERATOR G. PENASSO	WEATHER CONDITIONS P.C. DANN, LT. BREEZE
RECORDER C. SWANSON	
DATE 4/20/88 TIME 1:35P	REFL. HEIGHT 1.523
INST. HEIGHT 1.745'	REFL. ECCENTRICITY
INST. ECCENTRICITY	
LIGHT SOURCE: LASER/INFRARED	METEOROLOGICAL READINGS
INST. CONSTANT	@ W TEMP. | PRESSURE
REFL. CONSTANT	INST 70 51 | 6790
TOTAL OFFSET +0.008 MTRS	REFL 70 52 | 6730
ENTERED IN INSTRUMENT OFFSET: YES (NO) PPM: YES (NO)	MEAN 70 51.5 |
IOK VALUE ENTERED: -- 1:1	PPM CORRECTION

SLOPE DISTANCE MEASUREMENT

ARITHMETIC MEAN OF 20 MEASUREMENTS. 514 .469

INST - STATION ELEV(Ft)	5590.6'
INST. ELEV. (H_1) (Ft)	5646.4'
REFL. STATION ELEV. (Ft)	5593.9'
REFL. ELEV. (H_2) (Ft)	5598.9'
DISTANCE (D_1)	514.469
SUM OF CORRECTIONS	+0.008
SLOPE DISTANCE (D)	514.477
INCLINATION CORRECTION	
HORIZONTAL DISTANCE	
SEA LEVEL CORRECTION	
GEODETIC DISTANCE (S)	

REMARKS:

Nikon ND-21, Ser. No. 75898. on Denver Base Line

4/20/88

DISTANCE REDUCTION COMPUTATIONS

From: 1014 To: 500 #1
Average/corrected slope distance (ft): 1688.008
slope distance (mt): 514.504
Geodetic distance (ft): 1686.885
(mt): 514.163

	DRY	WET	FREE.ALT.	SLOPE DIST.	ELEV + HI
1014	71	51	5780	514.476	1721.003
500 #1	70	51	5735	514.476	1706.547

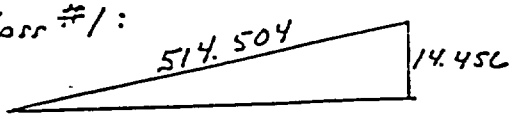
Latitude: 39 43 00.000 Azimuth:

From: 1014 To: 500 #4
Average/corrected slope distance (ft): 1688.008
slope distance (mt): 514.505
Geodetic distance (ft): 1686.888
(mt): 514.163

	DRY	WET	FREE.ALT.	SLOPE DIST.	ELEV + HI
1014	70	51	5790	514.477	1721.003
500 #4	70	52	5730	514.477	1706.547

Latitude: 39 43 00.000 Azimuth:

Using Glass #1:



Adjusted Horiz. Dist. = $\sqrt{514.504^2 - 14.456^2}$ = 514.301 M

NGS Published Value = 514.302 M

Using Glass #4:

Adjusted Horiz. Dist. = $\sqrt{514.505^2 - 14.456^2}$ = 514.302 M

NGS Published Value = 514.302 M

*****FINAL*****

U.S. DEPARTMENT OF COMMERCE - NOAA
NOS - NATION . GEODETIC SURVEY
ROCKVILLE, MD 20852

CALIBRATION BASE LINE DATA
DENVER BASE LINE
SOURCE NO--15707
(LAKEWOOD)

QUAD--391054
STATE--COLORADO
COUNTY--JEFFERSON

LIST OF ADJUSTED DISTANCES

FROM STATION NAME	ELEV.(M)	TO STATION NAME	ELEV.(M)	ADJ. DIST.(M) HORIZONTAL	ADJ. DIST.(M) MARK - MARK	STD. ERROR (MM)
0 POINT 1976	1697.542	150 POINT 1976	1699.445	150.0023	150.0144	0.4
0 POINT 1976	1697.542	500 POINT 1976	1705.033	499.9621	500.0164	0.6
0 POINT 1976	1697.542	1014 POINT 1976	1719.272	1014.2645	1014.4972	0.9
150 POINT 1976	1699.445	500 POINT 1976	1705.033	349.9598	350.0046	0.5
150 POINT 1976	1699.445	1014 POINT 1976	1719.272	864.2620	864.4895	0.7
500 POINT 1976	1705.033	1014 POINT 1976	1719.272	514.3021	514.4989	0.5

DISTANCE REDUCTION COMPUTATIONS:

MEASUREMENT BY: 'NIKON --- MODEL ND-21'

STATION	DISTANCE METERS	DRY BULB DEG. F	WET BULB DEG. F	BAROM FT.	INDEX OF REF.	GEOD. DIST METERS
1014 500 #4	514.477	70.00 70.00	51.00 52.00	8790 8730	1.000221	514.163
1014 500 #1	514.476	71.00 70.00	50.00 52.00	8780 8725	1.000221	514.162

MEASUREMENT BY: NIXON NO21 STATION	DISTANCE METERS	DRY BULB DEG. F	WET BULB DEG. F	BAROM FT.	INDEX OF REF.	SLOPE DIST. FEET
2 500 #4	514.477	70.00 70.00	51.00 52.00	6790 6730	1.000221	1688.004
1014 500 #1	514.476	71.00 70.00	50.00 52.00	6760 6725	1.000221	1688.001

NGS BASELINE - DENVER FEDERAL CENTER

- DIRECT READOUT EDM FIELD SHEET

INSTRUMENT	REFLECTOR
STATION 1014 POINT	TO STATION 5TH POINT
INST. SER. NO. 75898	TYPE OF REFLECTOR
OPERATOR D BENSON	
RECORDER D BENSON	WEATHER CONDITIONS PC / WARM / LIGHT WIND
DATE 1/27/84 TIME 1:25 PM	REFL. HEIGHT 1.779 M
INST. HEIGHT 1793 M	REFL. ECCENTRICITY 0
INST. ECCENTRICITY 0	
LIGHT SOURCE: LASER/INFRARED	METEOROLOGICAL READINGS
INST. CONSTANT —	D & TEMP. | PRESSURE
REF. CONSTANT —	INST. 66° 69.5 | 6415
TOTAL OFFSET -0.001 M	REFL 67 1.5 | 6342
ENTERED IN INSTRUMENT OFFSET: YES / (NO) PPM: YES / (NO)	MEAN |
10K VALUE ENTERED: 0 / 1	PPM CORRECTION

TB4240 Temp Alt 7411806

SLOPE DISTANCE MEASUREMENT

ARITHMETIC MEAN OF 20 MEASUREMENTS. Σ 514 41.9

Glass #1

		REMARKS:
INST. STATION ELEV.	1719.258	
INST. ELEV. (H_1)	+ 1.793	→ 1721.051 M
REFL. STATION ELEV.	1705.024	
REFL. ELEV. (H_2)	+ 1.779	→ 1706.803
DISTANCE (D_1)	514.469	
SUM OF CORRECTIONS	0	
SLOPE DISTANCE (D)	514.469	
INCLINATION CORRECTION		
HORIZONTAL DISTANCE		
SEA LEVEL CORRECTION		
GEODETIC DISTANCE (S)		

Nikon NO-21. Ser. No. 75898 on Denver Base Line

6/27/88

DISTANCE REDUCTION COMPUTATIONS

DEN FED CTR BAS

From: 1014 POINT To: 500 POINT

Average/corrected slope distance (ft):	1687.988
slope distance (mt):	514.499
Geodetic distance (ft):	1686.887
(mt):	514.163

	DRY	WET	PRES.ALT.	SLOPE DIST.	ELEV + HI
1014 POINT	89	70	5415	514.469	1721.051
500 POINT	83	65	5342	514.469	1706.803

Latitude: 37 48 00.000 Azimuth:

Adjusted Horiz. Dist. = $\sqrt{514.499^2 - 14.248^2}$ = 514.302 M

NGS Published Value = 514.302 M

EDM1 INSTRUMENT OFFSET CALIBRATION

Serial No. ND-21 / 75848 Date 4/20/88 Time 11:50 Gm Operator PERASSO Recorder BRAY

20 Readings

Line	AB	BA	BC	CB	AC	CA
Sum						
Mean	42.085	42.084	56.853	56.852	118.937	118.937

AB 42.085
BA 42.084
Sum 124.169
AB_m 42.0845

BC 56.853
CB 56.852
Sum 113.705
BC_m 56.8525
AB_m 42.0845
$AB_m + BC_m$ 118.937

AC 118.937
CA 118.737
Sum
AC_m 118.937
BC_m -118.937
X 0.0
X_o*
X_r

Remarks: Using #1 Glass, NW

*X_o=0 when 'Hot Dot' reflector is used.

EODM INSTRUMENT OFFSET CALIBRATION

Serial No. ND-21 Date 4/20/68 Operator Perasso

75898 Time 11:20 Recorder Bray

Line	AB	BA	BC	CB	AC	CA
Sum / Mean	62.086	62.085	56.852	56.853	118.937	118.436

AB 62.086
BA 62.085
Sum
AB_m 62.0855

BC 56.852
CB 56.853
Sum
BC_m 56.8525
AB_m 62.0855
$AB_m + BC_m$ 118.938

AC 118.937
CA 118.936
Sum
AC_m 118.9365
$AB_m + BC_m$ -118.938
K -0.0015
X_o*
X_e

Remarks:

Glass #2, SW

*X_o=0 when 'Hot Dot' reflector is used.

9123300-1970

NODI INSTRUMENT OFFSET CALIBRATION

Serial No. 75898 Date 4/20/88 Operator G. Ramos

Time 12:35P Recorder C. Swanson

ND-21

Line	AB	BA	BC	CB	AC	CA
Sum						
Mean	62.083	62.083	56.851	56.850	V18.936	V18.933

AB 62.083
BA 62.083
Sum 124.166
AB_n 62.0830

BC 56.851
CB 56.850
Sum 113.701
BA_n 56.8505
AB_n 62.0830
AB_n+BC_n 118.9335

AC 118936
CA 118.933
Sum 237.869
AC_n 118.9345
AB_n+BC_n -118.9335
X +0.0010
X_t *
X_r

Remarks:

*X_t=0 when 'Hot Dot' reflector is used.

GLASS #3 SE

EODM INSTRUMENT OFFSET CALIBRATION

Serial No. 75898 Date 4/20/8 Operator G. [illegible]

Time 1:00P Recorder C. Swanson

ND-21

Line	AB	BA	BC	CB	AC	CA
Sum Mean	62.077	62.076	5?.845	56.844	118.929	118.929

AB 62.077
BA 62.076
Sum 124.153
AB_m 62.0765

BC 56.845
CB 56.844
Sum 113.689
BC_m 56.8445
AB_m 62.0765
$AB_m + BC_m$ 118.9210

AC 118.929
CA 118.929
Sum 237.858
AC_m 118.9290
$AB_m + BC_m$ 118.9210
$X = \pm 0.008$
X_s* ____
X_o ____

Remarks:

Using #4 Glass NE

*X_s=0 when 'Hot Dot' reflector is used.

9123800 1972

EODM INSTRUMENT OFFSET CALIBRATION

Serial No. 7437896 Date 6/27/92 Operator BENSON

Time 10:00 Recorder BENSON

20 Readings

Line	AB	BA	BC	CB	AC	CA
Sum / Mean	63.446	63.44	61.070	61.0	124.516	124.515

AB 63.446
BA 63.447
Sum 126.893
AB_m 63.4465

BC 61.070
CB 61.070
Sum 122.140
BC_m 61.070
AB_m + 63.4465
AB_m+BC_m ~~[illegible]~~ 124.5165

AC 124.516
CA 124.515
Sum 249.031
AC_m 124.5155
AB_m+BC_m ~~[illegible]~~ 124.5165
K − 0.001
K_o*
K_c

Remarks:

*K_o=0 whe 'Hot Dot' reflector is used.

GLASS = #1 NW

EODM INSTRUMENT OFFSET CALIBRATION

Serial No. 743799 Date 6/27/88 Operator BENSON

Time 10:30 Recorder BENSON

Line	AB	EA	BC	CB	AC	CA
Sum						
Mean	63.441	63.441	61.07	61.070	124.515	124.515

AB	63.441
EA	63.441
Sum	126.882
AB_m	63.441

BC	61.070
CB	61.070
Sum	122.140
BC_m	61.070
AB_m	+63.446
AB_m+BC_m	124.516

AC	124.515
CA	124.515
Sum	249.030
AC_m	124.515
AB_m+BC_m	-124.514
K	-0.001
K_s*	
K_e	

Remarks:

*K_s=0 when 'Hot Dot' reflector is used.

GLASS #2 = SW

EODM INSTRUMENT OFFSET CALIBRATION

Serial No. T137876 Date 6/27/65 Operator PERASSO

Time 11:00A Recorder PERASSO

Line	AB	BA	BC	CB	AC	CA
Sum						
Mean	63.444	63.445	61.067	61.067	124.514	124.514

AB	63.444	BC	61.067	AC	124.514
BA	63.445	CB	61.067	CA	124.514
Sum	126.889	Sum	122.136	Sum	249.028
AB_m	63.4445	BC_m	61.068	AC_m	124.5140
		AB_m	+63.4445	AB_m+BC_m	-124.5125
		AB_m+BC_m	124.5125	K	+0.0015
				K_o*	
				K_e	

Remarks:

*K_o=0 when 'Hot Dot' reflector is used.

GLASS = #3 SE

EODM INSTRUMENT OFFSET CALIBRATION

Serial No. T437614 Date 6/27/85 Operator Perasso

Time 11:15A Recorder Perasso

Line	AB	BA	BC	CB	AC	CA
Sum						
Mean	65.438	65.439	61.062	61.063	124.507	124.508

AB 65.438
BA 65.439
Sum 126.877
AB_m 63.4385

BC 61.062
CB 61.063
Sum 122.125
BC_m 61.0625
AB_m +63.4385
AB_m+BC_m 124.5010

AC 124.507
CA 124.508
Sum 249.015
AC_m -124.5075
AB_m+BC_m -124.5010
K + 0.0065
K_e* _____
Ke _____

Remarks:

*K_e=0 when 'Hot Dot' reflector is used.

GLASS= #4 NE

YUCCA MOUNTAIN PROJECT

Trench 1 Quadrilateral
Geodetic Distances (Meters)

	1983*	1983-84*	1984*	1985-86		1988
				HP-3805A	NIKON	
NW → NE	92.983		92.995	92.999	92.999	
NE → NW		92.992	92.997	92.999	92.998	92.999
NW → SE	242.375	242.378	242.377	242.377	242.375	
SE → NW		242.379		242.378	242.375	242.371
NW → SW	236.115	236.119	236.119	236.114	236.114	
SW → NW	236.118	236.117	236.119			236.111
SE → NE	208.688	208.688		206.682	208.687	208.683
NE → SE			208.690	208.687	208.689	208.683
SE → SW	128.543	128.543		128.551	128.547	128.546
SW → SE	128.545	128.546	128.545			128.546
SW → NE	252.554	252.560	252.563			252.558
NE → SW			252.561	252.561	252.558	252.556

The arrow indicates the direction in which the line was measured.

* Instrument: Hewlett-Packard 3805A

1985-86: Lines measured with both the HP-3805A and Nikon ND-21

1988: Lines measured with the Nikon ND-21.

YUCCA MOUNTAIN PROJECT

Trench 1 Quadrilateral
Relative Elevations (Meters)

	1983	1983-84	1984	1985-86	1988
SW	0.00	0.00	0.00	0.00	0.00
SE	3.551	3.551	3.551	3.551	3.551
NW	7.729	7.729	7.728	7.728	7.728
NE	10.594	10.594	10.594	10.594	10.594

Elevations determined by differential leveling. The lowest corner, SW, was designated 0.00 meters and the other three corners are relative to it.

The elevation of the SW corner, determined by precision trigonometric leveling in November 1984 from the USGS 2nd order, class 1 level line, is 1087.096 meters.

1988: All elevations determined by first-order differential leveling.

PAGE ____

BENCH MARK DESCRIPTIONS

9-1165 required [XX]
9-1165 not required [ ]

BM TRENCH 1 QUADRILATERAL ACCUM. DISTANCE ____ k ELEV ____ m

Beatty, Nevada, from the intersection of U.S. Highway 95 and State Highway 374, proceed SE along U.S. highway 95 for 14.0 miles. Turn northerly onto graded road, thence 5.6 miles to a T-intersection. E. thence EAST 3.2 miles to a bend in road; proceed northeasterly 4.0 miles to T-intersection East; thence 1.05 miles East-Southeast on graded road to T-intersection East and track road West; thence West on track road for 0.5 mile to NE corner. All marks are standard aluminum caps stamped "TRENCH 1 1983" plus the corner designation and set in concrete (concrete is for horizontal stabilization; the caps are set on the top of driven rods). All marks are monumented with rock cairns.

9-1165 required [ ]
9-1165 not required [ ]

BM ____ ACCUM. DISTANCE ____ k ELEV ____ m

Form 780514

YUCCA MOUNTAIN PROJECT

Trench 14 Quadrilateral
Geodetic Distances (Meters)

	1983*	1983-84*	1984*	1985-86 HP3805A	1985-86 NIKON	1988
NW → NE				645.647	645.649	645.648
NE → NW	645.649	645.656	645.661	645.648	645.648	
NW → SE				743.807	743.805	743.798
SE → NW	743.805	743.821** 743.810(R)	743.814			743.802
NW → SW				291.213	291.214	291.212
SW → NW	291.208	291.213	291.218	291.211	291.214	291.213
SE → NE	432.646	432.648	432.641			432.640
NE → SE	432.646	432.651	432.651	432.651	432.644	
SE → SW	570.671	570.681** 570.674(R)	570.682			570.663
SW → SE	570.670	570.670**	570.682	570.670	570.666	570.664
SW → NE	656.928	656.930	656.935	656.920	656.922	656.917
NE → SW	656.924	656.931	656.934	656.920	656.920	

The arrow indicates the direction in which the line was measured.

* Instrument: Hewlett-Packard 3805A

** Apparent setup problem, disregard these values. These lines were reobserved (R).

1985-86: Lines measured with both the HP-3805A and Nikon ND-21.

1988: Lines measured with the Nikon ND-21.

YUCCA MOUNTAIN PROJECT

Trench 14 Quadrilateral
Relative Elevations (Meters)

	1983	1983-84	1984	1985-86	1988
SE	0.00	0.00	0.00	0.00	0.00
SW	18.499	18.502	18.498	18.501	18.500
NE	0.329	0.331	0.329	0.329	0.330
NW	44.625	44.628	44.625	44.625	44.628

The lowest corner, SE, was designated 0.00 meters and the other three corners are relative to it.

Differential leveling was performed between the SE and NE corners and between the SE and SW corners. The elevation for the NW corner was determined by vertical angle methods.

The elevation of the SE corner, determined by precision trigonometric leveling in November 1984 from the USGS 2nd order, class 1 level line, is 1177.169 meters.

1988: All elevations determined by first-order differential leveling.

BENCH MARK DESCRIPTIONS

9-1165 required ☐
9-1165 not required ☐

BM Trench 14 Quadrilateral ACCUM. DISTANCE _____ k ELEV _____ m

Mercury, Nevada, from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 22.6 mi. to the intersection of roads 'F' and 'H' (1.3 mi NW of a guard station); turn west onto road 'H' and proceed 7.5 miles to Fortymile Wash. Cross the wash and continue on hard surface road north and west for another 3.55 miles to a cross roads. Turn right 0.35 miles to the center of the quadrilateral. Corners are on local high points to the east and west. The NE and SE corners are on the same low ridge immediately east of the road, about 432 meters from each other.

(continued below)

9-1165 required ☐
9-1165 not required ☐

BM Trench 14 (continued) ACCUM. DISTANCE _____ k ELEV _____ m

The NW and SW corners are on the low ridge immediately west of the road, about 292 meters from each other. Rock cairns stand near each corner.

All marks are standard aluminum disks stamped with the corner designation and "Trench 14 1983" and cemented in bedrock.

YUCCA MOUNTAIN PROJECT

Solitario Quadrilateral
Geodetic Distances (Meters)

	1983*	1983-84*	1984*	1985-86 HP-3805A	1985-86 NIKON	1988
NW → NE	551.515	551.515	551.521	551.518	551.513	551.508
NE → NW	551.513	551.518		551.507	551.510	
NW → SE	895.314	895.318	895.325	895.315	895.310	895.311
SE → NW				895.319	895.311	895.311
NW → SW	460.074	460.075	460.076	460.072	460.070	460.072
SW → NW	460.070	460.072	460.079			460.072
SE → NE				814.175	814.171	814.170
NE → SE	814.170	814.183	814.190	814.177	814.173	
SE → SW				837.147	837.139	837.140
SW → SE	837.144	837.149	837.154			837.140
SW → NE	921.534	921.547	921.549			921.524
NE → SW	921.538	921.546	921.539	921.531	921.524	

The arrow indicates the direction in which the line was measured.

* Instrument: Hewlett-Packard 3805A

1985-86: Lines measured with both the HP-3805A and Nikon ND-21.

1988: Lines measured with the Nikon ND-21.

YUCCA MOUNTAIN PROJECT

Solitario Quadrilateral
Relative Elevations (Meters)

	1983	1983-84	1984	1985-86	1988
NW	0.00	0.00	0.00	0.00	0.00
NE	83.637	83.633	83.634	83.635	83.634
SW	4.380	4.398	4.383	4.379	4.368
SE	70.273	70.289	70.275	70.270	70.263

The lowest corner, NW, was designated 0.00 meters and the other three corners are relative to it.

Differential leveling was performed between the NW and NE corners. Elevations for the SW and SE corners were determined by vertical angle methods.

The elevation of the NW corner, determined by precision trigonometric leveling in November-1984 from the USGS 2nd order, class 1 level line, is 1221.101 meters.

1988: First-order differential leveling was performed between the NW and NE corners. Elevations for the SW and SE corners were determined by vertical angle methods.

BENCH MARK DESCRIPTIONS

9-1165 required ☐
9-1165 not required ☐

BM Solitario Quadrilateral ACCUM. DISTANCE _____ k ELEV _____ m

Beatty, Nevada, from the intersection of U.S. Highway 95 and State Highway 374, proceed SE along U.S. 95 for 14.0 miles. Turn northerly onto a graded road, thence 5.6 miles to a T-intersection, thence East 3.2 miles to a bend in the road: proceed northeasterly 4.8 miles to a track road SE. Turn right onto track road 0.1mile. The NW corner of the quadrilateral is about 800 ft east of the track road, on the high point of a low hill. The SW corner is on another low hill, 460 meters south of and 4 meters higher than the NW corner.

The NE and SE corners are part way up the high ridge to the east. The NE corner is 558 meters east of and 83 meters

(continued below)

9-1165 required ☐
9-1165 not required ☐

BM Solitario (continued) ACCUM. DISTANCE _____ k ELEV _____

above the NW corner. The SE corner is 840 meters east of and 66 meters higher than the SW corner.

All marks are standard aluminum caps set in bedrock and stamped with "Solitario 1983" plus the corner designation. All marks are monumented with rock cairns.

YUCCA MOUNTAIN PROJECT

Yucca Ridge Quadrilateral
Geodetic Distances (Meters)

	1983*	1983-84*	1984*	1985-86		1988
				HP-3805A	NIKON	
NW - NE	243.782	243.795	243.794			243.789
NE - NW	243.785	243.793		243.790	243.789	243.791
NW - SE	605.014	605.018	605.023			605.010
SE - NW		605.018	605.023	605.016	605.012	
NW - SW	615.999	616.006	616.006			615.999
SW - NW	615.998		616.005	616.001	615.998	615.999
SE - NE		464.440	464.447	464.435	464.436	
NE - SE	464.438	464.441		464.437	464.435	464.432
SE - SW		466.242	466.241	466.236	466.236	
SW - SE	466.229		466.242	466.233	466.238	466.235
SW - NE	660.741		660.747	660.736	660.737	660.733
NE - SW	660.740	660.749		660.736	660.737	660.735

The arrow indicates the direction in which the line was measured.

Instrument: Hewlett-Packard 3805A

1985-86: Lines measured with both the HP-3805A and Nikon ND-21.

1988: Lines measured with the Nikon ND-21.

YUCCA MOUNTAIN PROJECT

Yucca Ridge Quadrilateral
Relative Elevations (Meters)

	1983	1983-84	1984	1985-86	1988
NW	0.00	0.00	0.00	0.00	0.00
NE	12.029	12.031	12.030	12.030	12.030
SW	45.545	45.541	45.545	45.545	45.554
SE	30.200	30.198	30.204	30.206	30.210

The lowest corner, NW, was designated 0.00 meters and the other three corners are relative to it.

Differential leveling was performed between the NW and NE corners. Elevations for the SW and SE corners were determined by vertical angle methods.

The elevation of the NW corner, determined by precision trigonometric leveling in November 1984 from the USGS 2nd order, class 1 level line, is 1338.994 meters.

1988: First-order differential leveling was performed between the NW and NE corners and between the SW and SE corners. The southern corners were tied to the northern corners by vertical angle methods.

BENCH MARK DESCRIPTIONS

9-1165 required ☐
9-1165 not required ☐

BM Yucca Ridge Quadrilateral ACCUM. DISTANCE _____ k ELEV _____ m

Mercury, Nevada, from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 22.6 mi. to the intersection of roads 'F' and 'H' (1.3 mi. NW of a guard station); turn west onto road 'H' and proceed 7.5 miles to Fortymile Wash. Cross the wash and continue on hard surface road north and west for another 3.55 miles to a cross roads. Turn left and proceed 0.3 miles to a track road west. Turn right onto track road and proceed west 1.2 miles. The NE and SE corners of the quadrilateral are on high rocky points immediately to the right and left, about 330 ft above the road.

(continued below)

9-1165 required ☐
9-1165 not required ☐

BM Yucca Ridge (continued) ACCUM. DISTANCE _____ k ELEV _____ m

The NW corner is on the same ridge as the NE corner, 244 meters to the west. The SW corner is on the same ridge as the SE corner, 466 meters to the west.

All marks are standard aluminum disks stamped with the corner designation and 'Yucca Ridge 1983' and cemented in bedrock.

Form 780514

YUCCA MOUNTAIN PROJECT

Fran Ridge Quadrilateral
Geodetic Distances (Meters)

	1983*	1983-84*	1984*	1985-86 HP-3805A	1985-86 NIKON	1988
NW → NE	495.609	495.629**	495.627	495.621	495.622	495.623
NE → NW	495.617	495.639** 495.624(R)	495.630	596.628	495.624	
NW → SE	793.546	793.555	793.552	793.551	793.544	793.539
SE → NW				793.555	793.542	793.540
NW → SW	465.516	465.523	465.518	465.517	465.519	465.516
SW → NW	465.514	465.526	465.517			465.518
SE → NE				698.317	698.316	698.313
NE → SE	698.325	698.323	698.326	698.316	698.317	
SE → SW				545.091	545.087	545.086
SW → SE	545.089	545.092	545.095			545.087
SW → NE	749.504	749.516**	749.515			749.501
NE → SW	749.508	749.518** 749.511(R)	749.516	749.507	749.504	

The arrow indicates the direction in which the line was measured.

* Instrument: Hewlett-Packard 3805A

** Apparent setup problem, disregard these values. These lines were reobserved (R).

1985-86: Lines measured with both the HP-3805A and Nikon ND-21.

1988: Lines measured with the Nikon ND-21.

YUCCA MOUNTAIN PROJECT

Fran Ridge Quadrilateral
Relative Elevations (Meters)

	1983	1983-84	1984	1985-86	1988
NW	0.00	0.00	0.00	0.00	0.00
NE	49.895	49.894	49.893	49.896	49.895
SW	18.820	18.824	18.815	18.826	18.822
SE	41.040	41.031	41.030	41.035	41.026

The lowest corner, NW, was designated 0.00 meters and the other three corners are relative to it.

Differential leveling was performed between the NW and NE corners. Elevations for the SW and SE corners were determined by vertical angle methods.

The elevation of the NW corner, determined by precision trigonometric leveling in November 1984 from the USGS 2nd order, class 1 level line, is 1138.993 meters.

1988: First-order differential leveling was performed between the NW and NE corners. Elevations for the SW and SE corners were determined by vertical angle methods.

BENCH MARK DESCRIPTIONS

9-1165 required ☐
9-1165 not required ☐

BM Fran Ridge Quadrilateral ACCUM. DISTANCE _____ k ELEV _____ m

Mercury, Nevada, from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 22.6 mi. to the intersection of roads 'F' and 'H' (1.3 mi. NW of a guard station); turn west onto road 'H' and proceed 7.5 miles to Fortymile Wash. Cross the wash and continue on hard surface road generally northwest for another 2.3 miles to a T-road south. Turn left (south) and proceed 1.15 miles to a track road. Turn left onto track road and proceed 0.3 miles. The northwest corner of the quadrilateral is west of this point, up a small hill, 270 ft from the track road.

(continued below)

9-1165 required ☐
9-1165 not required ☐

BM Fran Ridge (continued) ACCUM. DISTANCE _____ k ELEV _____

from the NW corner:

The NE corner is 465 meters south along the same ridge and 18 meters higher

The SE corner is 750 meters to the SE, on the next ridge to the east, and 41 meters higher

The NE corner is 405 meters east, on the next ridge to the east, and 60 meters higher

All marks are standard aluminum disks stamped with the corner designation and "Fran Ridge 1983" and cemented in bedrock.

LEVEL LINE

MARK DESIGNATION	SECTION DIST.(KM)	ACCUM. DIST.(KM)	1985-86 UNADJUSTED ELEV.(M)	1983 ELEVATION DIFF.(M)	1983-84 ELEVATION DIFF.(M)	1985-86 ELEVATION DIFF.(M)	1988 ELEVATION DIFF.(M)
BM S 16 Reset	0.00	0.00	810.762	0.000	0.00	0.00	0.00
BM 1 JD 1952	1.34	1.34	820.441	9.682	9.679	9.679	9.680
BM 1 TJS	.64	1.98	835.798	15.356	15.358	15.357	15.356
BM 2 TJS	1.01	2.99	870.454	34.657	34.657	34.656	34.656
BM 3 TJS	.98	3.97	904.046	33.592	33.594	33.592	33.593
BM 2 JD 1952	.84	4.81	890.308	-13.738	-13.735	-13.738	-13.739
BM 4 TJS	1.04	5.85	902.736	12.427	12.430	12.428	12.428
BM 5 TJS	1.18	7.03	918.740	16.002	16.003	16.004	16.004
			Spur Line				
BM 7 TJS	1.69	1.69	976.127	57.386	57.387	57.388	57.386
			End Spur Line				
BM 3 JD 1952	1.18	8.21	938.503	19.763	19.759	19.763	19.764
BM 6 TJS	1.07	9.28	957.003	18.499	18.499	18.500	18.501
Crater Flat Az. Mk.	1.01	10.30	973.653	16.649	16.652	16.650	16.649
BM 8 TJS	1.04	11.34	971.427	-2.226	-2.226	-2.226	-2.228
BM 9 TJS	1.51	12.85	964.899	-6.526	-6.525	-6.528	-6.530
			Spur Line				
BM 10 TJS	.99	.99	984.507	19.606	19.606	19.608	19.607
			End Spur Line				
BM 11 TJS	1.33	14.17	957.776	-7.121	-7.123	-7.123	-7.122
BM 12 TJS	1.03	15.20	961.014	3.236	3.238	3.238	3.238
BM 13 TJS	1.15	16.35	978.687	17.672	17.674	17.673	17.672
BM 14 TJS	.63	16.98	990.629	11.942	11.943	11.942	11.941
BM 15 TJS	.59	17.58	1008.204	17.573	17.574	17.575	17.574
BM 16 TJS	.52	18.10	1023.227	15.023	15.025	15.024	15.024
BM 17 TJS	.52	18.62	1039.891	16.663	16.667	16.663	16.664
BM 18 TJS	.55	19.17	1057.800	17.909	17.911	17.909	17.910
BM 19 TJS	.56	19.73	1073.571	15.771	15.773	15.771	15.771
BM 20 TJS	.51	20.24	1086.225	12.652	12.653	12.654	12.654

LEVEL LINE

MARK DESIGNATION	SECTION DIST.(KM)	ACCUM. DIST.(KM)	1985-86 UNADJUSTED ELEV.(M)	1983 ELEVATION DIFF.(M)	1983-84 ELEVATION DIFF.(M)	1985-86 ELEVATION DIFF.(M)	1988 ELEVATION DIFF.(M)
BM 21 TJS	.63	20.87	1102.883	16.657	16.658	16.658	16.659
BM 22 TJS	.63	21.49	1118.736	15.852	15.856	15.853	15.854
BM 23 TJS	.66	22.16	1145.159	26.423	26.424	26.422	26.422
BM 24 TJS	.56	22.72	1157.665	12.504	12.505	12.506	12.507
BM 25 TJS	.45	23.17	1177.572	19.906	19.909	19.908	19.908
BM 26 TJS	.54	23.71	1190.212	12.638	12.639	12.639	12.639
BM 27 TJS	.38	24.09	1199.313	9.102	9.099	9.101	9.101
BM 28 TJS	.51	24.60	1215.518	16.204	16.205	16.205	16.205
BM 29 TJS	.57	25.17	1232.828	17.311	17.310	17.309	17.311
BM 30 TJS	.53	25.69	1245.246	12.420	12.419	12.420	12.419
BM 31 TJS	.58	26.28	1269.462	24.217	24.218	24.216	24.217
BM 32 TJS	.33	26.61	1283.434	13.972	13.974	13.972	13.973
BM 33 TJS	.34	26.95	1295.378	11.944	11.944	11.944	11.945
BM 34 TJS	.58	27.53	1308.859	13.482	13.481	13.481	13.482
BM 35 TJS	.71	28.24	1337.631	28.772	28.769	28.771	28.773
BM 36 TJS	.40	28.63	1354.322	16.691	16.693	16.692	16.692
BM 37 TJS	.59	29.22	1382.606	28.285	28.286	28.284	28.287
BM 38 TJS	.45	29.67	1422.422	39.815	39.816	39.813	39.814
BM 39 TJS	.43	30.10	1480.888	58.466	58.467	58.465	58.467
BM 40 TJS	.63	30.73	1465.147	-15.738	-15.737	-15.737	-15.738
1 BIS H&N	.61	31.35	1480.388	15.241	15.237	15.242	15.241
BM 41 TJS	.52	31.87	1478.387	-2.002	-2.000	-2.002	-2.001
BM 42 TJS	.58	32.45	1480.324	1.936	1.936	1.937	1.935
BM 43 TJS	.58	33.02	1496.018	15.695	15.692	15.694	15.693
BM 44 TJS	.46	33.49	1504.456	8.438	8.437	8.438	8.437
MILE	.38	33.87	1509.194	4.738	4.738	4.739	4.738
BM 45 TJS	.51	34.38	1440.930	-68.264	-68.265	-68.265	-68.266
BM 46 TJS	.64	35.02	1354.979	-85.949	-85.952	-85.951	-85.952
BM 47 TJS	.45	35.47	1300.111	-54.868	-54.870	-54.868	-54.869
BM 48 TJS	.45	35.92	1258.876	-41.234	-41.235	-41.235	-41.234

LEVEL LINE

MARK DESIGNATION	SECTION DIST.(KM)	ACCUM. DIST.(KM)	1985-86 UNADJUSTED ELEV.(M)	1983 ELEVATION DIFF.(M)	1983-84 ELEVATION DIFF.(M)	1985-86 ELEVATION DIFF.(M)	1988 ELEVATION DIFF.(M)
BM 49 TJS	.37	36.29	1240.097	-18.777	-18.776	-18.778	-18.778
BM 50 TJS	.62	36.91	1200.355	39.742	-39.741	-39.744	-39.744
BM 51 TJS	.57	37.48	1175.751	-24.603	-24.601	-24.604	-24.605
BM 52 TJS	.43	37.90	1154.183	-21.567	-21.569	-21.568	-21.569
BM 53 TJS	.53	38.43	1133.974	-20.208	-20.208	-20.209	-20.209
BM 54 TJS	.56	38.99	1110.036	-23.937	-23.934	-23.938	-23.939
BM 55 TJS	.48	39.47	1096.544	-13.491	-13.492	-13.491	-13.491
BM 56 TJS	.49	39.96	1077.459	-19.084	-19.086	-19.086	-19.086
BM 57 TJS	.46	40.42	1065.043	-12.415	-12.414	-12.416	-12.416
BM 58 TJS	.51	40.93	1044.245	-20.799	-20.798	-20.799	-20.800
BM 59 TJS	.53	41.46	1026.621	-17.624	-17.622	-17.624	-17.624
BM 60 TJS	.63	42.09	1015.875	-10.744	10.746	-10.746	-10.746
BM 61 TJS	.45	42.55	1009.619	-6.256	-6.254	-6.257	-6.256
BM 62 TJS	.49	43.04	1004.526	-5.093	-5.095	-5.093	-5.093
BM 63 TJS	.53	43.57	1011.532	7.006	7.004	7.006	7.007
BM 64 TJS	.58	44.14	1018.524	6.991	6.990	6.992	6.991
BM 65 TJS	.50	44.64	1024.599	6.076	6.076	6.075	6.076
BM 66 TJS	.55	45.20	1030.135	5.534	5.537	5.535	5.535
BM 67 TJS	1.28	46.48	1019.276	-10.859	-10.857	-10.859	-10.859
BM D 11 H&N	.46	46.94	1016.715	-2.561	-2.559	-2.561	-2.561
BM 68 TJS	.80	47.74	1013.268	-3.447	-3.442	-3.447	-3.447
BM D 10 H&N	.92	48.67	1016.585	3.316	3.319	3.316	3.316
BM 69 TJS	.55	49.22	1017.268	0.682	0.684	0.683	0.682
BM D 9 H&N	.67	49.88	1019.763	2.497	2.495	2.495	2.494
BM 70 TJS	.63	50.52	1020.685	0.923	0.920	0.922	0.922
BM D 8 H&N	.62	51.14	1024.606	3.920	3.919	3.921	3.919
BM D 7 H&N	.73	51.87	1025.469	0.863	0.867	0.863	0.862
BM D 6 H&N	.91	52.78	1025.817	0.350	0.350	0.348	0.348
BM 71 TJS	.65	53.43	1030.912	5.097	5.095	5.095	5.095
BM D 5 H&N	.83	54.26	1039.371	8.456	8.461	8.459	8.459
BM 73 TJS	.73	54.99	1037.463	-1.910	-1.910	-1.908	-1.908

LEVEL LINE

MARK DESIGNATION	SECTION DIST.(KM)	ACCUM. DIST.(KM)	1985-86 UNADJUSTED ELEV.(M)	1983 ELEVATION DIFF.(M)	1983-84 ELEVATION DIFF.(M)	1985-86 ELEVATION DIFF.(M)	1988 ELEVATION DIFF.(M)
		3 spur lines from 73 TJS					
BM 72 TJS	1.19	1.19	1057.982	20.523	20.521	20.520	20.523
BM R 333	.28	.28	1040.457	2.993	2.993	2.994	2.994
BM P 333	1.47	1.47	1010.824	-26.636	-26.635	-26.639	-26.639
		End of spur lines					
BM D 4 H&N	.84	55.82	1034.212	-3.251	-3.251	-3.251	-3.252
BM 74 TJS	.60	56.43	1033.953	-0.259	-0.258	-0.258	-0.257
BM D 3 H&N	.60	57.02	1035.182	1.229	1.229	1.229	1.231
BM 75 TJS	.51	57.54	1035.104	-0.079	-0.079	-0.078	-0.078
BM D 2 H&N	.72	58.26	1035.795	0.689	0.686	0.691	0.691
BM 76 TJS	.56	58.82	1037.769	1.974	1.974	1.974	1.975
BM D 1 H&N	.65	59.47	1044.561	6.793	6.793	6.793	6.793
BM 77 TJS	.62	60.09	1048.721	4.160	4.160	4.160	4.161
BM D A H&N	.59	60.68	1053.566	4.844	4.844	4.845	4.843
BM 78 TJS	.97	61.65	1066.813	13.244	13.246	13.247	13.244
BM 79 TJS	1.02	62.67	1099.037	32.223	32.227	32.225	32.224
BM 24 A H&N	1.17	63.84	1143.119	44.077	44.077	44.081	44.080
BM 80 TJS	.72	64.57	1173.624	30.504	30.508	30.506	30.505
BM 23 A H&N	.74	65.31	1130.132	6.506	6.507	6.507	6.509
BM 81 TJS	.49	65.80	1161.316	-18.814	-18.814	-18.816	-18.815
BM 22 A H&N	.51	66.31	1137.463	-23.854	-23.853	-23.853	-23.853
BM 82 TJS	.77	67.08	1106.334	-31.129	-31.129	-31.129	-31.129
BM 21 A H&N	.77	67.85	1080.050	-26.283	-26.283	-26.283	-26.284
BM 83 TJS	.94	68.79	1063.540	-16.514	-16.510	-16.511	-16.510
BM 20 A H&N	1.13	69.92	1052.487	-11.058	-11.052	-11.053	-11.055
BM 84 TJS	.66	70.58	1047.622	-4.863	-4.864	-4.865	-4.865
BM 19 A H&N	.39	70.97	1045.477	-2.145	-2.144	-2.145	-2.145
BM 85 TJS	.81	71.77	1044.706	-0.772	-0.771	-0.771	-0.772
BM 18 A H&N	.63	72.40	1046.993	2.286	2.285	2.287	2.286
BM 86 TJS	.50	72.90	1042.601	-4.394	-4.391	-4.392	-4.393
BM 17 A H&N	.48	73.38	1044.865	2.264	2.266	2.264	2.263

LEVEL LINE

MARK DESIGNATION	SECTION DIST.(KM)	ACCUM. DIST.(KM)	1985-86 UNADJUSTED ELEV.(M)	1983 ELEVATION DIFF.(M)	1983-84 ELEVATION DIFF.(M)	1985-86 ELEVATION DIFF.(M)	1988 ELEVATION DIFF.(M)
BM 87 TJS	.73	74.12	1057.502	12.635	12.638	12.636	12.636
BM 16 A H&N	.35	74.47	1059.552	2.049	2.049	2.050	2.050
BM 1 PDI	.71	75.18	1076.015			16.463	16.463
BM 2 PDI	.83	76.01	1094.270			18.255	18.256
BM 3 PDI	1.00	77.01	1113.413			19.143	19.142
BM 15 A H&N	.58	77.60	1118.392			4.979	4.978
BM 14 A H&N	.88	78.48	1099.942			-18.450	-18.452
BM 13 A H&N	.88	79.35	1087.367			-12.575	-12.575
BM 12 A H&N	1.18	80.53	1068.537			-18.830	-18.829
BM 11 A H&N	1.30	81.83	1056.782			-11.755	-11.756
BM 4 PDI	.74	82.57	1046.275			-10.507	-10.507
BM 10 A H&N	.77	83.34	1038.609			-7.666	-7.665
BM 9 A H&N	.71	84.05	1024.459			-14.151	-14.152
BM 8 A H&N	.91	84.96	1022.421			-2.038	-2.036
BM 7 A H&N	1.02	85.98	1003.400			-19.021	-19.021
BM 5 PDI	.85	86.83	998.011			-5.389	-5.388
BM 6 PDI	1.12	87.95	982.545			-15.466	-15.465
BM 7 PDI	.97	88.92	963.590			-18.955	-18.957
BM 8 PDI	.88	89.80	951.314			-12.276	-12.275
BM 9 PDI	1.22	91.02	939.635			-11.680	-11.680
BM G 408	1.42	92.44	971.333			31.699	31.702
BM H 408	1.60	94.04	944.471			-26.863	-26.861

BENCH MARK DESCRIPTIONS

9-1165 required ☐
9-1165 not required ☐

2

BM 1 JD 1952 ACCUM. DISTANCE _____ k ELEV _____ m

Beatty, Nevada, from the intersection of U.S. Highway 95 and State Highway 374, proceed SE along U.S. Highway 95 for 14.0 miles, 51 ft. N. of centerline of Highway, in concrete post projecting 6 inches higher than the ground; standard tablet stamped "1 JD 1952 2692"

9-1165 required ☐
9-1165 not required ☐

1

BM S 16 Reset 1978 ACCUM. DISTANCE _____ k ELEV _____ m

Beatty, Nevada, from the intersection of U.S Highway 95 and State Highway 374, proceed SE along U.S. Highway 95 for 14.72 miles, 100 ft. SW of centerline of Highway and set in the top of a 12" diameter concrete post, a standard tablet stamped "S 16 Reset 1978".

BENCH MARK DESCRIPTIONS

9-1165 required ☐
9-1165 not required ☐

3
BM 1 TJS 1983 ACCUM. DISTANCE ____ k ELEV ____ m

Beatty, Nevada, from the intersection of U.S. Highway 95 and State Highway 374, proceed SE along U.S. 95 for 14.0 miles. Turn northerly onto a graded road, thence 0.4 miles; 140 ft. W. of the centerline of road, 5 ft. S. of a rock cairn, an aluminum disk stamped "1 TJS 1983"

9-1165 required ☐
9-1165 not required ☐

4
BM 2 TJS 1983 ACCUM. DISTANCE ____ k ELEV ____ m

Beatty, Nevada, from the intersection of U.S. Highway 95 and State Highway 374, proceed SE along U.S. 95 for 14.0 miles. Turn Northerly onto a graded road, thence 1.05 miles; 106 ft. E. of the centerline of road, across a small wash, 5 ft. S of a rock cairn, an aluminum disk cemented into bedrock, stamped "2 TJS 1983"

BENCH MARK DESCRIPTIONS

9-1165 required
9-1165 not required

BM 3 TUS 1983 ACCUM. DISTANCE ____ k ELEV ____ m

Beatty, Nevada, from the intersection of U.S. Highway 95 and State Highway 374, proceed SE along U.S. 95 for 14.0 miles. Turn northerly onto a graded road, thence 1.65 miles; 150 ft. W of a T-road intersection at the top of a saddle (Steves Pass), 3 ft. S of a rock cairn, cemented into bedrock, an aluminum disk stamped "3 TUS 1983"

9-1165 required
9-1165 not required

BM 2 JD 1952 2921 ACCUM. DISTANCE ____ k ELEV ____ m

Beatty, Nevada, from the intersection of U.S. Highway 95 and State Highway 374, proceed SE along U.S. 95 for 14.0 miles. Turn northerly onto a graded road, thence 2.2 miles; 32 ft. E of the centerline of the road, in concrete post; standard tablet stamped "2 JD 1952 2921"

BENCH MARK DESCRIPTIONS

9-1165 required ☐
9-1165 not required ☐

7

BM 4 TJS 1983 ACCUM. DISTANCE ____ k ELEV ____ m

Beatty, Nevada, from the intersection of U.S. Highway 95 and State Highway 374, proceed SE along U.S.95 for 14.0 miles. Turn northerly onto a graded road, thence 2.85 miles; 140 ft E. of the centerline of the road, 50 ft. N. of a track road E., 4 ft. S. of a rock cairn, an aluminum disk stamped "4 TJS 1983"

9-1165 required ☐
9-1165 not required ☐

8

BM 5 TJS 1983 ACCUM. DISTANCE ____ k ELEV ____ m

Beatty, Nevada, from the intersection of U.S. Highway 95 and State highway 374, proceed SE along U.S.95 for 14.0 miles. Turn northerly onto a graded road, thence 3.55 miles; 127 ft E. of the centerline of the road, 6 ft S. of a rock cairn, an aluminum disk stamped "5 TJS 1983"

BENCH MARK DESCRIPTIONS

9-1165 required ☐
9-1165 not required ☐

9
BM 3 JD 1952 3079 ACCUM. DISTANCE ____ k ELEV ____ m

Beatty, Nevada, from the intersection of U.S. Highway 95 and State Highway 374, proceed SE along U.S. 95 for 14.0 miles. Turn northerly onto a graded road, thence 4.3 miles; 40 ft. E of the centerline of the road, in concrete post projecting 3 inches higher than the ground; standard tablet stamped "3 JD 1952 3079"

9-1165 required ☐
9-1165 not required ☐

10
BM 6 TJS 1983 ACCUM. DISTANCE ____ k ELEV ____ m

Beatty, Nevada, from the intersection of U.S. Highway 95 and State Highway 374, proceed SE along U.S. 95 for 14.0 miles. Turn northerly onto a graded road, thence 5.0 miles; 208 ft W. of the centerline of the road, 5 ft S. of a rock cairn, an aluminum disk stamped "6 TJS 1983"

BENCH MARK DESCRIPTIONS

9-1165 required ☐
9-1165 not required ☐

101

BM 7 TJS 1983 ACCUM. DISTANCE _____ k ELEV _____ m

Beatty, Nevada, from the intersection of U.S. Highway 95 and State Highway 374, proceed SE along U.S. Highway 95 for 14.0 miles. Turn Northerly onto a graded road, thence 3.6 miles to a track road. Turn NW onto a track road proceeding 0.55 miles across drain to road forks. Continue Westerly on left road fork 0.5 miles to end of road near several prospects. 325 ft. NW from the end of road, 400 ft. N. of a large prospect, 4 ft. S. of a cairn, cemented in a bedrock outcrop, an aluminum disk stamped "7 TJS 1983".

9-1165 required ☐
9-1165 not required ☐

11

BM Crater Flat Az. Mark ACCUM. DISTANCE _____ k ELEV _____ m

Beatty, Nevada, from the intersection of U.S. Highway 95 and State highway 374, proceed SE along U.S. 95 for 14.0 miles. Turn northerly onto a graded road, thence 5.6 miles: 85 ft. N and 20 ft. E (parallel and perpendicular to road) of the center of a T-road east intersection. In a concrete post: USC&GS azimuth mark stamped "Crater Flat 1949"

PAGE ____

BENCH MARK DESCRIPTIONS

9-1165 required ☐
9-1165 not required ☐

BM 8 TJS 1983 ACCUM. DISTANCE ____ k ELEV ____ m

Beatty, Nevada, from the intersection of U.S. Highway 95 and State Highway 374, proceed SE along U.S. 95 for 14.0 miles. Turn northerly onto a graded road, thence 5.6 miles to a T-intersection, thence E 0.65 miles: 217 ft N of the centerline of the road, 5 ft S of a rock cairn, an aluminum disk stamped "8 TJS 1983"

9-1165 required ☐
9-1165 not required ☐

BM 9 TJS 1983 ACCUM. DISTANCE ____ k ELEV ____ m

Beatty, Nevada, from the intersection of U.S. Highway 95 and State Highway 374, proceed SE along U.S. 95 for 14.0 miles. Turn northerly onto a graded road, thence 5.6 miles to a T-intersection, thence E 1.55 miles to a T-road N; 160 ft. S of intersection, 6 ft S of rock cairn, an aluminum disk stamped "9 TJS 1983"

BENCH MARK DESCRIPTIONS

9-1165 required ☐
9-1165 not required ☐

BM 10 TJS 1983 ACCUM. DISTANCE ____ k ELEV ____ m

Beatty, Nevada, from the intersection of U.S. Highway 95 and State Highway 374, proceed SE, along U.S. Highway 95 for 14.0 miles. Turn Northerly onto graded road, thence 5.6 miles to a T-intersection, thence E. 1.55 miles to a T-road N. Turn North proceeding about 0.3 miles to end of road at drill site. Continue North 0.35 miles to the Eastern one of two rock outcrops near the base of a volcanic cone. Cemented at the base of the outcrop, an aluminum disk stamped "10 TJS 1983".

9-1165 required ☐
9-1165 not required ☐

BM 11 TJS 1983 ACCUM. DISTANCE ____ k ELEV ____ m

Beatty, Nevada, from the intersection of U.S. Highway 95 and State Highway 374, proceed SE along U.S. 95 for 14.0 miles. Turn northerly onto a graded road, thence 5.6 miles to a T-intersection, thence E 2.35 miles; 410 ft S of the centerline of road, 6 ft S of rock cairn, an aluminum disk stamped "11 TJS 1983".

Form 750516

BENCH MARK DESCRIPTIONS

9-1165 required ☐
9-1165 not required ☐

BM 12 TJS 1983 ACCUM. DISTANCE ____ k ELEV ____ m

Beatty, Nevada, from the intersection of U.S. Highway 95 and State Highway 374, proceed SE along U.S. 95 for 14.0 miles. Turn northerly onto a graded road, thence 5.6 miles to a T-intersection, thence E 2.95 miles; 380 ft S of the centerline of road, 8 ft S of a rock cairn, an aluminum disk stamped "12 TJS 1983"

9-1165 required ☐
9-1165 not required ☐

BM 13 TJS 1983 ACCUM. DISTANCE ____ k ELEV ____ m

Beatty, Nevada, from the intersection of U.S. Highway 95 and State Highway 374, proceed SE along U.S. 95 for 14.0 Miles. Turn northerly onto a graded road, thence 5.6 miles to a T-intersection, thence E 3.2 miles to bend in road; proceed northeasterly 0.4 miles; 375 ft. NW. of centerline of road, 6 ft. S of rock cairn, an aluminum disk stamped "13 TJS 1983".

BENCH MARK DESCRIPTIONS

9-1165 required ☐
9-1165 not required ☐

BM 14 TJS 1983 ACCUM. DISTANCE ____ k ELEV ____ m

Beatty, Nevada, from the intersection of U.S. Highway 95 and State Highway 374, proceed SE. along U.S. Highway 95 for 14.0 miles. Turn Northerly onto graded road, thence 5.6 miles to a T-intersection, thence E. 3.2 miles to a bend in road: proceed Northeasterly 0.75 miles, 244 ft. SE. of centerline of the road, 6 ft. S. of a rock cairn, an aluminum disk stamped "14 TJS 1983".

9-1165 required ☐
9-1165 not required ☐

BM 15 TJS 1983 ACCUM. DISTANCE ____ k ELEV ____ m

Beatty, Nevada, from the intersection of U.S. Highway 95 and State Highway 374, proceed SE. along U.S. 95 for 14.0 miles. Turn Northerly onto graded road, thence 5.6 miles to a T-intersection thence E. 3.2 miles to bend in road: proceed Northeasterly 1.1 miles, 345 ft. SE. of the centerline of road, 7 ft. S of a rock cairn, an aluminum disk stamped "15 TJS 1983".

Form 7S0514

BENCH MARK DESCRIPTIONS

9-1165 required ☐
9-1165 not required ☐

BM 16 TJS 1983 ACCUM. DISTANCE ____ k ELEV ____ m

Beatty, Nevada, from the intersection of U.S. Highway 95 and State Highway 374, proceed SE. along U.S. 95 for 14.0 miles. Turn Northerly onto graded road, thence 5.6 miles to a T-intersection, thence 3.2 miles to a bend in road; proceed Northeasterly 1.35 miles, 255 ft. SE. of the centerline of road 6 ft. S. of a rock cairn, an aluminum disk stamped " 16 TJS 1983"

9-1165 required ☐
9-1165 not required ☐

BM 17 TJS 1983 ACCUM. DISTANCE ____ k ELEV ____ m

Beatty, Nevada, from the intersection of U.S. Highway 95 and State Highway 374, proceed SE. along U.S. 95 for 14.0 miles. Turn Northerly onto a graded road, thence 5.6 miles to a T-intersection, thence E. 3.2 miles to a bend in road; proceed Northeasterly 1.7 miles, 168 ft. SE. of the centerline of road 5 ft. S. of a rock cairn, cemented into a slab of rock, an aluminum disk stamped "17 TJS 1983".

BENCH MARK DESCRIPTIONS

9-1165 required ☐
9-1165 not required ☐

BM 18 TJS 1983 ACCUM. DISTANCE ____ k ELEV ____ m

Beatty, Nevada, from the intersection of U.S. Highway 95 and State Highway 374, proceed SE. along U.S. 95 for 14.0 miles. Turn Northly onto a graded road, thence 5.6 miles to a T-intersection, thence 3.2 miles to a bend in road; proceed Northeasterly 2.0 miles, 390 ft. SE. of the centerline of road, 6 ft. S. of a rock cairn, an aluminum disk stamped "18 TJS 1983".

9-1165 required ☐
9-1165 not required ☐

BM 19 TJS 1983 ACCUM. DISTANCE ____ k ELEV ____ m

Beatty, Nevada, from the intersection of U.S. Highway 95 and State Highway 374, proceed SE. along U.S. 95 for 14.0 miles. Turn Northerly onto graded road, thence 5.6 miles to a T-intersection, thence E. 3.2 miles to a bend in road; proceed Northeasterly 2.3 miles, 425 ft. SE. of the centerline of road, 6 ft. S of a rock cairn, an aluminum disk stamped "19 TJS 1983".

BENCH MARK DESCRIPTIONS

9-1165 required ☐
9-1165 not required ☐

BM 20 TJS 1983 ACCUM. DISTANCE ____ k ELEV ____ m

Beatty, Nevada, from the intersection of U.S. Highway 95 and State Highway 374, proceed SE. along U.S. 95 for 14.0 miles. Turn Northerly onto a graded road, thence 5.6 miles to a T- intersection, thence E. 3.2 miles to a bend in road; proceed Northeasterly 2.65 miles, 183' ft. NW. of the centerline of road, on E. bank of wash, cemented in the top of a buried boulder, an aluminum disk stamped " 20 TJS 1983".

9-1165 required ☐
9-1165 not required ☐

BM 21 TJS 1983 ACCUM. DISTANCE ____ k ELEV ____ m

Beatty, Nevada, from the intersection of U.S. Highway 95 and State Highway 374, Proceed SE. along U.S. 95 for 14.0 miles. Turn Northerly onto a graded road, thence 5.6 miles to a T-intersection, thence E. 3.2 miles to bend in road; proceed Northeasterly 3.0 miles, 200 ft. SE. of the centerline of road, 6 ft. S of a rock cairn, an aluminum disk stamped "21 TJS 1983".

BENCH MARK DESCRIPTIONS

9-1165 required ☐
9-1165 not required ☐

BM 22 TJS 1983 ACCUM. DISTANCE ____ k ELEV ____ m

Beatty, Nevada. from the intersection of U.S. Highway 95 and State Highway 374, proceed SE. along U.S. 95 for 14.0 miles. Turn Northerly onto a graded road, thence 5.6 miles to a T-intersection, thence E. 3.2 miles to bend in road; proceed Northeasterly 3.4 miles, 125 ft. SE. fo the centerline of road, 6 ft. S of a rock cairn, cemented in the top of a slab of rock, an aluminmum disk stamped "22 TJS 1983".

9-1165 recuired ☐
9-1165 not required ☐

BM 23 TJS 1983 ACCUM. DISTANCE ____ k ELEV ____ m

Beatty, Nevada, from the intersection of U.S.Highway 95 and State Highway 374, proceed SE. along U.S 95 for 14.0 miles. Turn Northerly onto a graded road, thence 5.6 miles to a T-intersection, thence E. 3.2 miles to bend in road: proceed Northeasterly 3.75 miles, 510 ft NW. of the centerline of road across a wash, 4 ft. S of a rock cairn, cemented in bedrock, an aluminum disk stamped "23 TJS 1983".

BENCH MARK DESCRIPTIONS

9-1165 required ☐
9-1165 not required ☐

BM 24 TJS 1983 ACCUM. DISTANCE _____ k ELEV _____ m

Beatty, Nevada, from the intersection of U.S. Highway 95 and State Highway 374, proceed SE. along U.S. 95 for 14.0 miles, Turn Northerly onto a graded road, thence 5.6 miles to a T-intersection, thence E. 3.2 miles to bend in road; proceed 4.1 miles, 690 ft NW of the centerline of road, on the W. bank of a wash, cemented in bed rock, 5 ft. S. of a rock cairn, an aluminum disk stamped "24 TJS 1983".

9-1165 required ☐
9-1165 not required ☐

BM 25 TJS 1983 ACCUM. DISTANCE _____ k ELEV _____ m

Beatty, Nevada, from the intersection of U.S. Highway 95 and State Highway 374, proceed SE along U.S. 95 for 14.0 miles. Turn Northerly onto a graded road thence 5.6 miles to a T-intersection, thence E.3.2 miles to bend in road; proceed Northeasterly 4.35 miles. 78 ft. NW of the centerline of road, 7 ft. S. of a rock cairn, cemented in the top of a large rock, an aluminum disk stamped "25 TJS 1983".

BENCH MARK DESCRIPTIONS

9-1165 required ☐
9-1165 not required ☐

BM 26 TJS 1983 ACCUM. DISTANCE ____ k ELEV ____ m

Beatty, Nevada, from the intersection of U.S. Highway 95 and State Highway 374, proceed SE along U.S. 95 for 14.0 miles. Turn northerly onto a graded road, thence 5.6 miles to a T-intersection, thence East 3.2 miles to a bend in the road; proceed northeasterly 4.6 miles. 75 ft east of the centerline of the road, an aluminum disk set in concrete and stamped "26 TJS 1983."

9-1165 required ☐
9-1165 not required ☐

BM 27 TJS 1983 ACCUM. DISTANCE ____ k ELEV ____ m

Beatty, Nevada, from the intersection of U.S. Highway 95 and State Highway 374, proceed SE along U.S. 95 for 14.0 miles. Turn northerly onto a graded road, thence 5.6 miles to a T-intersection, thence east 3.2 miles to a bend in the road; proceed northeasterly 4.6 miles. 105 ft east of the centerline of the road, cemented in the top of a buried boulder on the east side of a wash, an aluminum disk stamped "27 TJS 1983."

BENCH MARK DESCRIPTIONS

9-1165 required ☐
9-1165 not required ☐

BM 28 TJS 1983 ACCUM. DISTANCE _____ k ELEV _____ m

Beatty, Nevada, from the intersection of U.S. Highway 95 and State Highway 374, proceed SE. along U.S. 95 for 14.0 miles. Turn Northerly onto a graded road, thence 5.6 miles to a T-intersection, thence E. 3.2 miles to bend in road; proceed Northeasterly 5.25 miles, 275 ft. E. of the centerline of road junction with old track road, on E. side of drain, 6 ft. S. of a rock cairn, cemented into rock, an aluminum disk stamped "28 TJS 1983".

9-1165 required ☐
9-1165 not required ☐

BM 29 TJS 1983 ACCUM. DISTANCE _____ k ELEV _____ m

Beatty, Nevada, from the intersection of U.S. Highway 95 and State Highway 374, proceed SE along U.S. 95 for 14.0 miles. Turn Northerly onto a graded road, thence 5.6 miles to a T-intersection, thence E. 3.2 miles to a bend in road; proceed Northeasterly 5.5 miles, 105 ft. W. of centerline of road, 5 ft. S. of a rock cairn, cemented into rock, an aluminum disk stamped "29 TJS 1983".

BENCH MARK DESCRIPTIONS

9-1165 required ☐
9-1165 not required ☐

BM 30 TJS 1983 ACCUM. DISTANCE ____ k ELEV ____ m

Beatty, Nevada, from the intersection of U.S. Highway 95 and State Highway 374, proceed SE. along U.S. 95 for 14.0 miles. Turn Northerly onto a graded road, thence 5.6 miles to a T-intersection, thence E. 3.2 miles to bend in road: proceed Northeasterly 5.8 miles, 107 ft. W. of the centerline of road on W. bank of wash, 4 ft. S. of a rock cairn, cemented into rock, an aluminum disk stamped "30 TJS 1983".

9-1165 required ☐
9-1165 not required ☐

BM 31 TJS 1983 ACCUM. DISTANCE ____ k ELEV ____ m

Beatty, Nevada, from the intersection of U.S. Highway 95 and State Highway 374, proceed SE. along U.S. 95 for 14.0 miles. Turn Northerly onto graded road, thence 5.6 miles to a T-intersection, thence E.3.2 miles to bend in road: proceed Northeasterly 6.2 miles, 100 ft. E. of centerline of road and 260 ft. W. of an old track road, 6 ft. S. of a rock cairn, cemented into rock, an aluminum disk stamped "31 TJS 1983".

BENCH MARK DESCRIPTIONS

9-1165 required ☐
9-1165 not required ☐

BM 32 TCS 1983 ACCUM. DISTANCE ____ k ELEV ____ m

Beatty, Nevada, from the intersection of U.S. Highway 95 and State Highway 374, Proceed SE. along U.S. 95 for 14. 0 miles. Turn Northerly onto a graded road, thence 5.6 miles to a T-intersection, thence E. 3.2 miles to bend in road; proceed Northeasterly 6.05 miles to old track road, thence on old track road NE. 0.3 miles, 360 ft. W. of centerline of road, 5 ft. S. of a rock cairn, cemented into rock, an aluminum disk stamped "32 TCS 1983 ".

9-1165 required ☐
9-1165 not required ☐

BM 33 TCS 1983 ACCUM. DISTANCE ____ k ELEV ____ m

Beatty. Nevada, from the intersection of U.S. Highway 95 and State Highway 374, proceed SE. along U.S. 95 for 14.0 miles. Turn Northerly onto a graded road thence 5.6 miles to a T-intersection, thence E 3.2 miles to bend in road; proceed Northeasterly 6.05 miles to old track road, thence on old track road NE. 0.5 miles, 506 ft. W. of the centerline of road, 10 ft. S. of a rock cairn, cemented into rock, an aluminum disk stamped " 33 TCS 1983".

BENCH MARK DESCRIPTIONS

9-1165 required ☐
9-1165 not required ☐

BM 34 TJS 1983 ACCUM. DISTANCE ____ k ELEV ____ m

Beatty, Nevada, from the intersection of U.S. Highway 95 and State Highway 374, proceed SE. along U.S. 95 for 14.0 miles. Turn Northerly onto a graded road, thence 5.6 miles to a T-intersection, thence E. 3.2 miles to bend in road; proceed Northeasterly 6.05 miles to old track road, thence on old track road NE. 0.85 miles 230 ft. E. of the centerline of road, across wash, cemented into a 5 ftx 2ft. boulder, an aluminum disk stamped "34 TJS 1983".

9-1165 required ☐
9-1165 not required ☐

BM 35 TJS 1983 ACCUM. DISTANCE ____ k ELEV ____ m

Beatty, Nevada, from the intersection of U.S. Highway 95 and State Highway 374, proceed SE. along U.S. 95 for 14.0 miles. Turn Northerly onto a graded road, thence 5.6 miles to a T-intersection, thence E. 3.2 miles to bend in road; proceed Northeasterly 6.05 miles to old track road, thence on old track road NE. 1.25 miles, 78 ft. W of the centerline of road, 18 ft. S. of a rock cairn, cemented into rock, an aluminum disk stamped "35 TJS 1983".

BENCH MARK DESCRIPTIONS

9-1165 required ☐
9-1165 not required ☐

BM 36 TJS 1983 ACCUM. DISTANCE _____ k ELEV _____ m

Beatty, Nevada, from the intersection of U.S. Highway 95 and State Highway 374, proceed SE. along U.S. 95 for 14.0 miles. Turn Northerly onto a graded road, thence 5.6 miles to a T-intersection, thence E. 3.2 miles to bend in road; proceed NorthEasterly 6.05 to old track road, thence on old track road NE. 1.5 miles, 60 ft. W. of the centerline of road, 6 ft. S of a rock cairn, cemented into rock, an aluminum disk stamped "36 TJS 1983".

9-1165 required ☐
9-1165 not required ☐

BM 37 TJS 1983 ACCUM. DISTANCE _____ k ELEV _____ m

Beatty, Nevada, from the intersection of U.S. Highway 95 and State Highway 374, proceed SE. along U.S. 95 for 14.0 miles. Turn Northerly onto a graded road, thence 5.6 miles to a T-intersection, thence E. 3.2 miles to bend in road; proceed Northeasterly 6.05 miles to old track road, thence on old track road NE. 1.85 miles, 43 ft. W. of centerline of road, 6 ft. S. of a rock cairn, cemented into rock, an aluminum disk stamped "37 TJS 1983 ".

BENCH MARK DESCRIPTIONS

9-1165 required ☐
9-1165 not required ☐

BM 38 TJS 1983 ACCUM. DISTANCE ____ k ELEV ____ m

Beatty, Nevada, from the intersection of U.S. Highway 95 and State Highway 374, proceed SE along U.S. 95 for 14.0 miles. Turn northerly onto a graded road, thence 5.6 miles to a T-intersection, thence E 3.2 mil. to a bend in the road. Proceed northeasterly 6.05 mi. to an old track road, thence on old track road NE 2.1 mi. to end of road; 92 ft. E and 30 ft. above road. OR: from Mercury, Nevada, from the intersection of Mercury Highway and Jackass Flat Road (0.9 miles north of guard station in Mercury), proceed Northwesterly on Jackass Flat Road 22.6 mi. to the intersection of roads 'F' and 'H' (1.3 mi. NW of a guard station); turn west onto road 'H' and proceed (cont. below)

9-1165 required ☐
9-1165 not required ☐

BM 38 TJS (continued) ACCUM. DISTANCE ____ k ELEV ____ m

7.9 mi. to the west edge of Fortymile Wash. Turn south onto gravel road and proceed 1.9 mi. to a bend at the bottom of a wash. Continue northwesterly 4.85 mi. to an intersection at the top of Yucca Mountain. Turn north along top of ridge 2.3 mi. to end of road: BM 39 TJS is 145 ft west of this point: proceed on foot down the west side of the ridge, approximately 500 feet along bearing N45°W from 39 TJS; an aluminum disk cemented in bedrock stamped "38 TJS 1983."

BENCH MARK DESCRIPTIONS

9-1165 required ☐
9-1165 not required ☐

BM 39 TJS 1983 ACCUM. DISTANCE ____ k ELEV ____ m

Mercury, Nevada, from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 22.6 mi. to the intersection of roads 'F' and 'H' (1.3 mi. NW of a guard station); turn west onto road 'H' and proceed 7.9 mi. to the west edge of Fortymile Wash. Turn south onto gravel road and proceed 1.95 mi. to bend at the bottom of a wash. Continue northwesterly 4.85 mi. to an intersection at the top of Yucca Mountain. Turn north along top of ridge 2.3 mi. to end of road; 145 ft. W of the centerline of road. OR: Beatty, Nevada, from the intersection of U.S. Highway 95 and State Highway 374, proceed S

(continued below)

9-1165 required ☐
9-1165 not required ☐

BM 39 TJS (continued) ACCUM. DISTANCE ____ k ELEV ____ m

southeast along U.S. 95 for 14.0 mi. Turn north onto a graded road, thence 5.6 mi. to a T-intersection, thence East 3.2 mi. to bend in road. Proceed northeasterly 6.05 mi. to an old track road, thence on track road NE to end of road; BM 38 TJS is 92 ft E and 30 ft above road at this point; proceed on foot southeast up the ridge, approximately 500 feet along bearing S45°E from 38 TJS; BM is on top of ridge, an aluminum disk cemented in rock stamped "39 TJS 1983."

BENCH MARK DESCRIPTIONS

9-1165 required ☐
9-1165 not required ☐

BM 40 TJS 1983 ACCUM. DISTANCE ____ k ELEV ____ m

Mercury, Nevada, from the intersection of Mercury Highway and Jackass Flat Road (0.9 miles north of guard station in Mercury), proceed Northwesterly on Jackass Flat Road 22.6 miles to the intersection of roads 'F' and 'H' (1.3 miles NW of a guard station); turn west onto road 'H' 7.9 miles west to the west edge of Fortymile Wash. Turn south onto gravel road proceeding ~~6~~ 1.95 miles to bend at the bottom of a wash. Continue northwesterly 4.85 miles to an intersection at the top of Yucca Mountain. Turn north along top of ridge 1.95 miles; 207 ft. W. of the centerline of the road, 5 ft. S of a rock cairn, an aluminum disk cemented in bedrock stamped "40 TJS 1983."

9-1165 required ☐
9-1165 not required ☐

BM 1 BIS HM 1982 ACCUM. DISTANCE ____ k ELEV ____ m

Mercury, Nevada, from the intersection of Mercury Highway and Jackass Flat Road (0.9 miles north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 22.6 miles to the intersection of roads 'F' and 'H' (1.3 miles NW of a guard station: turn west onto road 'H' 7.9 miles west to the west edge of Fortymile Wash. Turn south onto gravel road ~~=~~ 1.95 miles to bend at the bottom of a wash. Continue northwesterly 4.85 miles to an intersection at the top of Yucca Mountain. Turn north along top of ridge 1.55 miles; 90 ft W. of the cent line of the road, a brass tablet cemented into rock stamped "1 BIS HM 1982 "

BENCH MARK DESCRIPTIONS

9-1165 required ☐
9-1165 not required ☐

BM 41 TJS 1983 ACCUM. DISTANCE ____ k ELEV ____ m

Mercury, Nevada, from the intersection of Mercury Highway and Jackass Flat Road (0.9 miles north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 22.6 miles to the intersection of roads 'F' and 'H' (1.3 miles NW of a guard station); turn west onto road 'H' 7.9 miles west to the west edge of Fortymile Wash. Turn south onto gravel road ~~2~~ 1.95 miles to bend at the bottom of a wash. Continue northwesterly 4.85 miles to an intersection at the top of Yucca Mountain. Turn north along top of ridge 1.25 miles; 113 ft. W. of the centerline of the road, 3 ft. S of a rock cairn, an aluminum disk cemented into bedrock stamped "41 TJS 1983."

9-1165 required ☐
9-1165 not required ☐

BM 42 TJS 1983 ACCUM. DISTANCE ____ k ELEV ____ m

Mercury, Nevada, from the intersection of Mercury Highway and Jackass Flat Road (0.9 miles north of a guard station in Mercury), proceed northwesterly on Jackass Flat Road 22.6 miles to the intersection of roads 'F' and 'H' (1.3 miles NW of a guard station); turn west onto road 'H' 7.9 miles to the west edge of Fortymile Wash. Turn south onto gravel road ~~2~~ 1.95 miles to bend at the bottom of a wash. Continue northwesterly 4.85 miles to an intersection at the top of Yucca Mountain. Turn north along top of the ridge 0.9 miles; 67 ft. W of the centerline of the road, 3 ft. S of a rock cairn, an aluminum disk cemented into bedrock stamped "42 TJS 1983."

BENCH MARK DESCRIPTIONS

9-1165 required ☐
9-1165 not required ☐

BM 43 TJS 1983 ACCUM. DISTANCE ____ k ELEV ____ m

Mercury, Nevada, from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. North of Guard Station in Mercury), proceed Northwesterly on ~~paved~~ Jackass Flat road 22.6 mi. to the intersection of roads 'F' and 'H' (1.3 mi. NW of a guard station); Turn West onto road 'H' proceeding 7.9 mi. to the west edge of Fortymile Wash. Turn South onto gravel road proceeding 1.95 mi. to bend at the bottom of a wash. Continue Northwesterly 4.85 mi. to an intersection at the top of Yucca Mountain. Turn North proceeding along the top of ridge 0.57 mi.; 51 ft. W. of the centerline of the road, 3 ft. S. of a rock cairn, an aluminum disk cemented into bedrock stamped "43 TJS 1983".

9-1165 required ☐
9-1165 not required ☐

BM 44 TJS 1983 ACCUM. DISTANCE ____ k ELEV ____ m

Mercury, Nevada, from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. North of Guard Station in Mercury), proceed Northwesterly on ~~paved~~ Jackass Flat road 22.6 mi. to the intersection of roads 'F' and 'H' (1.3 mi. NW of a guard station); Turn West onto road 'H' proceeding 7.9 mi. to the west edge of Fortymile Wash. turn South onto gravel road proceeding 1.95 mi. to bend at the bottom of a wash. Continue Northwesterly 4.85 mi. to an intersection at the top of Yucca Mountain. Turn North proceeding along the top of ridge 0.27 mi.; 41 ft. W. of the centerline of the road, 3 ft. S. of a rock cairn, an aluminum disk cemented into bedrock stamped "44 TJS 1983".

BENCH MARK DESCRIPTIONS

9-1165 required ☐
9-1165 not required ☐

BM MILE 1959 ACCUM. DISTANCE _____ k ELEV _____ m

Mercury, Nevada, from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. North of Guard Station in Mercury), proceed Northwesterly on ~~paved~~ Jackass Flat road 22.6 mi. to the intersection of roads 'F' and 'H' (1.3 mi. NW of a guard station); Turn West onto road 'H' proceeding 7.9 mi. to the west edge of Fortymile Wash. Turn South onto gravel road proceeding 1.95 mi. to bend at the bottom of a wash. Continue Northwesterly 4.85 mi. to an intersection at the top of Yucca Mountain. 275 ft. W. of the intersection, a standard brass tablet cemented into bedrock stamped "MILE 1959".

9-1165 required ☐
9-1165 not required ☐

BM 45 TJS 1983 ACCUM. DISTANCE _____ k ELEV _____ m

Mercury, Nevada, from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. North of the guard station in Mercury), proceed Northwesterly on ~~paved~~ Jackass Flat road 22.6 mi. to the intersection of roads 'F' and 'H' (1.3 mi. NW of a guard station); Turn West onto road 'H' proceeding 7.9 mi. to the west edge of Fortymile Wash. Turn South onto gravel road proceeding 1.95 mi. to bend at the bottom of a wash. Continue Northwesterly 4.62 mi.; 31 ft. S. of the center-line of the road, 4 ft. S. of a rock cairn, an aluminum disk cemented into bedrock stamped "45 TJS 1983".

BENCH MARK DESCRIPTIONS

9-1165 required ☐
9-1165 not required ☐

BM 46 TJS 1983 ACCUM. DISTANCE ____ k ELEV ____ m

Mercury, Nevada, from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. North of guard station in Mercury), proceed Northwesterly on Jackass Flat Road 22.6 mi. to the intersection of roads 'F' and 'H' (1.3 mi. NW of a guard station); Turn West onto road 'H' proceeding 7.9 mi. to the west edge of Fortymile Wash. Turn South onto gravel road proceeding 1.95 mi. to bend at the bottom of a wash. Continue Northwesterly 4.12 mi.; 49 ft. N. of the centerline of the road, 3 ft. S. of a rock cairn, an aluminum disk cemented into bedrock stamped "46 TJS 1983".

9-1165 required ☐
9-1165 not required ☐

BM 47 TJS 1983 ACCUM. DISTANCE ____ k ELEV ____ m

Mercury, Nevada, from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. North of guard station in Mercury), proceed Northwesterly on Jackass Flat Road 22.6 mi. to the intersection of roads 'F' and 'H' (1.3 mi. NW of a guard station); Turn West onto road 'H' proceeding 7.9 mi. to the west edge of Fortymile Wash. Turn South onto gravel road proceeding 1.95 mi. to bend at the bottom of a wash. Continue Northwesterly 3.87 mi.; 33 ft. N. of the centerline of the road, 3 ft. S. of a rock cairn, an aluminum disk cemented into bedrock stamped "47 TJS 1983".

BENCH MARK DESCRIPTIONS

9-1165 required ☐
9-1165 not required ☐

BM 48 TJS 1983 ACCUM. DISTANCE _____ k ELEV _____ m

Mercury, Nevada, from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. North of guard station in Mercury), proceed Northwesterly on Jackass Flat Road 22.6 mi. to the intersection of roads 'F' and 'H' (1.3 mi. NW of a guard station): Turn West onto road 'H' proceeding 7.9 mi. to the west edge of Fortymile Wash. Turn South onto gravel road proceeding 1.95 mi. to bend at the bottom of a wash. Continue Northwesterly 3.67 mi.; 115 ft. E. of the centerline of the road, an aluminum disk cemented into bedrock stamped "48 TJS 1983".

9-1165 required ☐
9-1165 not required ☐

BM 49 TJS 1983 ACCUM. DISTANCE _____ k ELEV _____ m

Mercury, Nevada, from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. North of the guard station in Mercury), proceed Northwesterly on Jackass Flat Road 22.6 mi. to the intersection of roads 'F' and 'H' (1.3 mi. NW of a guard station); Turn West onto road 'H' proceeding 7.9 mi. to the west edge of Fortymile Wash. Turn South onto gravel road proceeding 1.95 mi. to bend at the bottom of a wash. Continue Northwesterly 3.4 mi.; 220 ft. W. of the centerline of the road, 6 ft. S. of a rock cairn, an aluminum disk cemented into bedrock stamped "49 TJS 1983".

BENCH MARK DESCRIPTIONS

9-1165 required ☐
9-1165 not required ☐

BM 50 TJS 1983 ACCUM. DISTANCE ____ k ELEV ____ m

Mercury, Nevada, from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. North of the guard station in Mercury), proceed Northwesterly on Jackass Flat Road 22.6 mi. to the intersection of roads 'F' and 'H' (1.3 mi. NW of a guard station); Turn West onto road 'H' proceeding 7.9 mi. to the west edge of Fortymile Wash. Turn South onto gravel road proceeding 1.95 mi. to bend at the bottom of a wash. Continue Northwesterly 3.0 mi.; 100 ft. E. of the centerline of the road, 8 ft. S. of a rock cairn, an aluminum disk cemented into bedrock stamped "50 TJS 1983".

9-1165 required ☐
9-1165 not required ☐

BM 51 TJS 1983 ACCUM. DISTANCE ____ k ELEV ____ m

Mercury, Nevada, from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. North of Guard Station in Mercury), proceed Northwesterly on Jackass Flat Road 22.6 mi. to the intersection of roads 'F' and 'H' (1.3 mi. NW of a guard station); Turn West onto road 'H' proceeding 7.9 mi. to the west edge of Fortymile Wash. Turn South onto gravel road proceeding 1.95 mi. to a bend at the bottom of a wash. Continue Northwesterly 2.7 mi.; 325 ft. E. of the centerline of the road, 6 ft. S. of a rock cairn, an aluminum disk cemented into bedrock stamped "51 TJS 1983".

BENCH MARK DESCRIPTIONS

9-1165 required ☐
9-1165 not required ☐

BM 52 TJS 1983 ACCUM. DISTANCE _____ k ELEV _____ m

Mercury, Nevada. from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. North of Guard Station in Mercury), proceed northwesterly on Jackass Flat Road 22.6 mi. to the intersection of roads 'F' and 'H' (1.3 mi. NW of a guard station; turn west onto road 'H'; proceed 7.9 mi. to the west edge of Fortymile Wash. Turn south onto gravel road 1.95 mi. to a bend at the bottom of a wash. Continue Northwesterly 2.4 mi.; 155 ft. W of the centerline of the road, 7 ft. S. of a rock cairn, an aluminum disk stamped "52 TJS 1983."

9-1165 required ☐
9-1165 not required ☐

BM 53 TJS ACCUM. DISTANCE _____ k ELEV _____ m

Mercury, Nevada, from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. North of Guard Station in Mercury), proceed northwesterly on Jackass Flat Road 22.6 mi. to the intersection of roads 'F' and 'H' (1.3 mi. NW of a guard station;) turn west onto road 'H'; proceed 7.9 mi. to the west edge of Fortymile Wash. Turn south onto gravel road 1.95 mi. to a bend at the bottom of a wash. Continue northwesterly 2.1 mi.; 85 ft. W of the centerline of the road, 6 ft. S. of a rock cairn, an aluminum disk stamped "53 TJS 1983."

BENCH MARK DESCRIPTIONS

9-1165 required ☐
9-1165 not required ☐

BM 54 TJS 1983 ACCUM. DISTANCE ____ k ELEV ____ m

Mercury, Nevada, from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. North of Guard Station in Mercury), proceed northwesterly on Jackass Flat Road 22.6 mi. to the intersection of roads 'F' and 'H' (1.3 mi. NW of a guard station; turn west onto road 'H'; proceed 7.9 mi. to the west edge of Fortymile Wahs. Turn south onto gravel road 1.95 mi. to a bend at the bottom of a wash. Continue Northwesterly 1.8 mi.; 39 ft. N of the centerline of the road, 6 ft. S. of a rock cairn, an aluminum disk cemented in rock stamped "54 TJS 1983."

9-1165 required ☐
9-1165 not required ☐

BM 55 TJS 1983 ACCUM. DISTANCE ____ k ELEV ____ m

Mercury, Nevada, from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of Guard Station in Mercury), proceed northwesterly on Jackass Flat Road 22.6 mi. to the intersection of roads 'F' and 'H' (1.3 mi NW of a guard station;) turn west onto road 'H'; proceed 7.9 mi. to the west edge of Fortymile Wash. Turn south onto gravel road 1.95 mi. to a bend at the bottom of a wash. Continue northwesterly 1.5 mi.; 300 ft. S. of the centerline of the road, 8 ft. S. of a rock cairn, an aluminum di stamped "55 TJS 1983."

BENCH MARK DESCRIPTIONS

9-1165 required ☐
9-1165 not required ☐

BM 56 TJS 1983 ACCUM. DISTANCE ____ k ELEV ____ m

Mercury, Nevada. from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 22.6 mi. to the intersection of roads 'F' and 'H' (1.3 mi. NW of a guard station); turn west onto road 'H'; proceed 7.9 mi. to the west edge of Fortymile Wash. Turn south onto gravel road 1.95 mi. to a bend at the bottom of a wash. Continue northwesterly 1.2 mi.; 276 ft. NW of the centerline of the road (166 ft. W of the centerline of an old road), 7 ft. E. of a rock cairn, an aluminum disk cemented into rock stamped "56 TJS 1983."

9-1165 required ☐
9-1165 not required ☐

BM 57 TJS 1983 ACCUM. DISTANCE ____ k ELEV ____ m

Mercury, Nevada. from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury) proceed northwesterly on Jackass Flat Road 22.6 mi. to the intersection of roads 'F' and 'H' (1.3 mi. NW of a guard station); turn west onto road 'H'; proceed 7.9 mi. to the west edge of Fortymile Wash. Turn south onto gravel road 1.95 mi. to a bend at the bottom of a wash. Continue northwesterly 0.9 miles; 176 ft. N. of the centerline of the road, 50 ft. SE of a large rock outcrop, 6 ft. E. of a rock cairn, an aluminum disk cemented into bedrock stamped "57 TJS 1983."

BENCH MARK DESCRIPTIONS

9-1165 required ☐
9-1165 not required ☐

BM 58 TJS 1983 ACCUM. DISTANCE ____ k ELEV ____ m

Mercury, Nevada, from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 22.6 mi. to the intersection of roads 'F' and 'H' (1.3 mi. NW of a guard station); turn west onto road 'H'; proceed 7.9 mi. to the west edge of Fortymile Wash. Turn south onto gravel road 1.95 mi. to a bend at the bottom of a wash. Continue northwesterly 0.6 mi.; 80 ft. N of the centerline of the road, 8 ft. S. of a rock cairn, an aluminum disk cemented into a large buried boulder stamped "58 TJS 1983."

9-1165 required ☐
9-1165 not required ☐

BM 59 TJS 1983 ACCUM. DISTANCE ____ k ELEV ____ m

Mercury, Nevada, from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 22.6 mi. to the intersection of roads 'F' and 'H' (1.3 mi. NW of a guard station); turn west onto road 'H'; proceed 7.9 mi. to the west edge of Fortymile Wash. Turn south onto gravel road 1.95 mi. to a bend at the bottom of a wash. Continue northwesterly 0.3 mi.; 166 ft. N. of the centerline of the road, 25 ft. E of the centerline of a spur road to a drill site, 6 ft. S. of a rock cairn, an aluminum disk cemented into bedrock stamped "59 TJS 1983."

BENCH MARK DESCRIPTIONS

9-1165 required
9-1165 not required

BM 60 TJS 1983 ACCUM. DISTANCE ____ k ELEV ____ m

Mercury, Nevada, from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 22.6 mi. to the intersection of roads 'F' and 'H'; (1.3 mi. NW of a guard station); turn west onto road 'H'; proceed 7.9 mi. to the west edge of Fortymile Wash. Turn south onto gravel road 1.9 mi near the north embankment of a wash, 161 ft. E. of the centerline of the road, 6 ft. S. of a rock cairn, an aluminum disk stamped "60 TJS 1983."

9-1165 required
9-1165 not required

BM 61 TJS 1983 ACCUM. DISTANCE ____ k ELEV ____ m

Mercury, Nevada, from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 22.6 mi. to the intersection of roads 'F' and 'H' (1.3 mi. NW of a guard station); turn west onto road 'H'; proceed 7.9 mi. to the west edge of Fortymile Wash. Turn south onto gravel road 1.6 mi.; 145 ft. E of the centerline of the road, 5 ft. S. of a rock cairn, an aluminum disk stamped "61 TJS 1983."

BENCH MARK DESCRIPTIONS

9-1165 required
9-1165 not required

BM 62 TJS 1983 ACCUM. DISTANCE ____ k ELEV ____ m

Mercury, Nevada. From the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 22.6 mi. to the intersection of roads 'F' and 'H' (1.3 mi. NW of a guard station); turn west onto road 'H'; proceed 7.9 mi. to the west edge of Fortymile Wash. Turn south onto gravel road and proceed 1.3 mi.: 183 ft. E of the centerline of the road, 5 ft. S. of a rock cairn, an aluminum disk stamped "62 TJS 1983."

9-1165 required
9-1165 not required

BM 63 TJS 1983 ACCUM. DISTANCE ____ k ELEV ____ m

Mercury, Nevada, from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 22.6 mi. to the intersection of roads 'F' and 'H' (1.3 mi. NW of a guard station); turn west onto road 'H'; proceed 7.9 mi. to the west edge of Fortymile Wash. Turn south onto gravel road and proceed 1.0 mi.: 214 ft. W. of the centerline of the road, 6 ft. S. of a rock cairn, an aluminum disk stamped "63 TJS 1983."

BENCH MARK DESCRIPTIONS

9-1165 required ☐
9-1165 not required ☐

BM 64 TJS 1983 ACCUM. DISTANCE _____ k ELEV _____ m

Mercury, Nevada, from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 22.6 mi. to the intersection of roads 'F' and 'H' (1.3 mi. NW of a guard station); turn west onto road 'H'; proceed 7.9 mi. to the west edge of Fortymile Wash. Turn south onto gravel road and proceed 0.7 mi.; 205 ft. W. of the centerline of the road, 4 ft. S. of a rock cairn, an aluminum disk stamped "64 TJS 1983."

9-1165 required ☐
9-1165 not required ☐

BM 65 TJS 1983 ACCUM. DISTANCE _____ k ELEV _____ m

Mercury, Nevada, from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 22.6 mi. to the intersection of roads 'F' and 'H' (1.3 mi. NW of a guard station); turn west onto road 'H'; proceed 7.9 mi. to the west edge of Fortymile Wash. Turn south onto gravel road and proceed 0.4 mi.' 330 ft. W of the centerline of the road, 8 ft. S of a rock cairn, an aluminum disk stamped "65 TJS 1983."

BENCH MARK DESCRIPTIONS

9-1165 required ☐
9-1165 not required ☐

BM 66 TJS 1983 ACCUM. DISTANCE ____ k ELEV ____ m

Mercury, Nevada, from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 22.6 mi. to the intersection of roads 'F' and 'H' (1.3 mi. NW of a guard station); turn west onto road 'H'; proceed 7.9 mi. to the west edge of Fortymile Wash. Turn South onto gravel road and proceed 0.1 mi. to the top of the embankment of wash; 265 ft. W. of the centerline of the road, 7 ft. S of a rock cairn, an aluminum disk stamped "66 TJS 1983."

9-1165 required ☐
9-1165 not required ☐

BM 67 TJS 1983 ACCUM. DISTANCE ____ k ELEV ____ m

Mercury, Nevada, from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 22.6 mi. to the intersection of roads 'F' and 'H' (1.3 mi. NW of a guard station); turn west onto road 'H' and proceed 7.2 mi. to a track road S. on the eastern embankment of Fortymile Wash; 350 ft. S. of the paved road, 147 ft. W. of the N/S track road, 90 ft. E of the embankment of Fortymile Wash, 8 ft. S. of a rock cairn, an aluminum disk stamped "67 TJS 1983."

BENCH MARK DESCRIPTIONS

9-1165 required ☐
9-1165 not required ☐

BM H&N D11 1956 ACCUM. DISTANCE _____ k ELEV _____ m

Mercury, Nevada, from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 22.6 mi. to the intersection of roads 'F' and 'H' (1.3 mi. NW of a guard station); turn west onto road 'H' and proceed 7.0 mi. to a track road south, about 300 ft. S. of the centerline of the paved road, 2 ft. north of a 4x4 post, a concrete post with a brass disk stamped "H&N BM D11 1956 3335.39."

9-1165 required ☐
9-1165 not required ☐

BM 68 TJS 1983 ACCUM. DISTANCE _____ k ELEV _____ m

Mercury, Nevada, from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 22.6 mi. to the intersection of roads 'F' and 'H' (1.3 mi. NW of a guard station); turn west onto road 'H' and proceed 6.65 mi. to a track road east. Turn east on track road 0.1 mi. OR: from same starting point, proceed northwesterly on Jackass Flat Road 21.3 mi. to intersection of roads 'C' and 'B'. Turn left (SW) on Road B 1.55 mi. to 2nd St. Turn right (NE) on 2nd St .5 mi. to a dirt road. Turn left and follow dirt road west 5.85 mi. 148 ft. S of the road, 9 ft. S. of a rock cairn, an aluminum disk stamped "68 TJS 1983."

BENCH MARK DESCRIPTIONS

9-1165 required ☐
9-1165 not required ☐

BM H&N D10 ACCUM. DISTANCE ____ k ELEV ____ m

Mercury, Nevada, from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 21.3 mi. to a guard station at the intersection of roads 'C' and 'E'. Turn left (SW) on Road E 1.55 mi. to 2nd St. Turn right (NE) on 2nd St 0.5 mi. to a dirt road. Turn left on dirt road and proceed 5.30 mi. 200 ft. N of road, 2 ft. S of a 4x4 post, a concrete post with a brass disk stamped "H&N BM D10 1956 3335.00"

9-1165 required ☐
9-1165 not required ☐

BM 69 TJS 1983 ACCUM. DISTANCE ____ k ELEV ____ m

Mercury, Nevada, from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 21.3 mi. to a guard station at the intersection of roads 'C' and 'E'. Turn left (SW) on Road E 1.55 mi. to 2nd St. Turn right (NE) on 2nd St. 0.5 mi. to a dirt road. Turn left on dirt road and proceed 5.0 mi. west. 165 ft. north of road, 6 ft. S of a rock cairn, an aluminum disk stamped "69 TJS 1983."

BENCH MARK DESCRIPTIONS

9-1165 required
9-1165 not required

BM D9 H&N ACCUM. DISTANCE ____ k ELEV ____ m

Mercury, Nevada. from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 21.3 mi. to a guard station at the intersection of roads 'C' and 'S'. Turn left (SW) on Road B 1.55 mi. to 2nd st. Turn right (NE) on 2nd St. 0.5 mi. to a dirt road. Turn left on dirt road and proceed 4.6 mi. west. 200 ft. N. of the road and 2 ft S of a 4x4 post, a concrete post with a brass disk stamped "H&N BM D9 1956 3345.45."

9-1165 required
9-1165 not required

BM 70 TJS 1983 ACCUM. DISTANCE ____ k ELEV ____ m

Mercury, Nevada, from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 21.3 mi. to a guard station at the intersection of roads 'C' and 'B'. Turn left (SW) on Road B 1.55 mi. to 2nd St. Turn right (NE) on 2nd St. 0.5 mi. to a dirt road. Turn left on dirt road and proceed 4.2 mi. west., 172 ft. N. of road, 4ft S. of a rock cairn, an aluminum disk stamped "70 TJS 1983."

BENCH MARK DESCRIPTIONS

9-1165 required ☐
9-1165 not required ☐

BM H&N D8 ACCUM. DISTANCE ____ k ELEV ____ m

Mercury, Nevada, from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 21.3 mi. to a guard station at the intersection of roads 'C' and 'B'. Turn left (SW) on Road B 1.55 mi. to 2nd St. Turn right (NE) on 2nd St. 0.5 mi. to a dirt road. Turn left on dirt road and proceed 3.9 miles west. 165 ft. N of road and 2 ft. S. of a 4x4 post. A concrete post with a brass disk stamped "H&N BM D8 1956 3361.36"

9-1165 required ☐
9-1165 not required ☐

BM H&N D7 ACCUM. DISTANCE ____ k ELEV ____ m

Mercury, Nevada, from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 21.3 mi. to a guard station at the intersection of roads 'C' and 'B'. Turn left (SW) on Road B 1.55 mi. to 2nd St. Turn right (NE) on 2nd St. 0.5 mi. to a dirt road. Turn left on dirt road and proceed 3.45 mi. west. 200 ft. north of road, 2 ft. S of a 4x4 post, a concrete post with a brass disk stamped "H&N BM D7 1956 3364.180"

BENCH MARK DESCRIPTIONS

9-1165 required ☐
9-1165 not required ☐

BM H2N D6 ACCUM. DISTANCE _____ k ELEV _____ m

Mercury, Nevada, from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 21.3 mi. to a guard station at the intersection of roads 'C' and 'B'. Turn left (SW) on Road B 1.55 mi. to 2nd St. Turn right (NE) on 2nd St. 0.5 mi. to a dirt road. Turn left on dirt road and proceed 2.9 mi. west. 200 ft. N of the road, 2 ft. S of a 4x4 post, a concrete post with a brass disk stamped "H2N BM D6 1956 3365.328."

9-1165 required ☐
9-1165 not required ☐

BM 71 TJS 1983 ACCUM. DISTANCE _____ k ELEV _____ m

Mercury, Nevada, from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 21.3 mi. to a guard station at the intersection of roads 'C' and 'B'. Turn left (SW) on Road B 1.55 mi. to 2nd St. Turn right (NE) on 2nd St. 0.5 mi. to a dirt road. Turn left on dirt road and proceed 2.5 mi. west. 130 ft. N of the road, 4 ft. S of a rock cairn, an aluminum disk stamped "71 TJS 1983."

BENCH MARK DESCRIPTIONS

9-1165 required ☐
9-1165 not required ☐

BM H&N D5 ACCUM. DISTANCE _____ k ELEV _____ m

Mercury, Nevada. From the intersection of Mercury highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 21.3 mi. to a guard station at the intersection of roads 'C' and 'B'. Turn left (SW) on Road B 1.55 mi. to 2nd St. Turn right (NE) on 2nd St. 0.5 mi. to a dirt road. Turn left on dirt road and proceed 2.0 miles west. 190 ft. N of the road, 2 ft. S of a 4x4 post, a concrete post with a brass disk stamped "H&N BM-D5 1956 3409.80"

9-1165 required ☐
9-1165 not required ☐

BM 72 TJS 1983 ACCUM. DISTANCE _____ k ELEV _____ m

Mercury, Nevada. From the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 21.3 mi. to a guard station at the intersection of roads 'C' and 'B'. Turn left (SW) on Road B 1.55 mi. to 2nd St. Turn right (NE) on 2nd St. 0.5 mi. to a dirt road. Turn left on dirt road and proceed 1.6 mi. west to a Y-road on the west side of a drain. BM is on a hillside south of the road, about 3400 ft. due west of and 65 ft higher than this Y-Rd intersection. 680 ft. N of track road going up the hill to a radio tower. 4 ft S of a rock cairn. An aluminum disk cemented in bedrock, stamped "72 TJS 1983."

BENCH MARK DESCRIPTIONS

9-1165 required ☐
9-1165 not required ☐

BM 73 TJS 1983 ACCUM. DISTANCE _____ k ELEV _____ m

Mercury, Nevada, from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 21.3 mi. to a guard station at the intersection of roads 'C' and 'B'. Turn left (SW) on Road B 1.55 mi. to 2nd St. Turn right (NE) on 2nd St. 0.5 mi. to a dirt road. Turn left on dirt road and proceed 1.6 mi. west to a Y-rd on the west bank of a wash. Proceed along right fork of road for 100 ft. BM is 100 ft. N of center of road, 4ft S of a rock cairn, an aluminum disk stamped "73 TJS 1983"

9-1165 required ☐
9-1165 not required ☐

BM R 333 (C&GS) ACCUM. DISTANCE _____ k ELEV _____ m

Mercury, Nevada. from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 21.3 mi. to a guard station at the intersection of roads 'C' and 'B'. Turn left (SW) on Road B 1.55 mi. to 2nd St. Turn right (NE) on 2nd St. 0.5 mi. to a dirt road. Turn left on dirt road and proceed 1.5 mi. to the bottom of a dry wash. Proceed north along the bottom of the wash about 1200 feet. 51 ft. E of the center of the wash in the top of a concrete post projecting 0.6 ft above the ground. A brass disk stamped R333 1952.

BENCH MARK DESCRIPTIONS

9-1165 required ☐
9-1165 not required ☐

BM F 333 (C&GS) ACCUM. DISTANCE _____ k ELEV _____ m

Mercury, Nevada, from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 21.3 mi. to a guard station at the intersection of roads 'C' and 'E'. Turn left (SW) on Road E 1.55 mi. to 2nd St. Turn right (NE) on 2nd St. 0.5 mi. to a dirt road. Turn left on dirt road and proceed 1.5 mi. to the bottom of a dry wash. Proceed south along the bottom of the wash 0.8 mi., 36 ft. E of the center of the wash, set in the top of a concrete post projecting 0.5 ft. above the ground. A brass disk, stamped F333 1952.

9-1165 required ☐
9-1165 not required ☐

BM H&N D4 ACCUM. DISTANCE _____ k ELEV _____ m

Mercury, Nevada, from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 21.3 mi. to a guard station at the intersection of roads 'C' and 'E'. Turn left (SW) on Road E 1.55 mi. to 2nd St. Turn right (NE) on 2nd St. 0.5 mi. to a dirt road. Turn left on dirt road and proceed 1.1 mi. west. 300 ft. N of the road, 3 ft. S of a 4x4 post. A concrete post with a brass disk stamped "H&N BM D4 1956 3392.91"

BENCH MARK DESCRIPTIONS

9-1165 required ☐
9-1165 not required ☐

BM 74 TJS ACCUM. DISTANCE ____ k ELEV ____ m

Mercury, Nevada, from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 21.3 mi. to a guard station at the intersection of roads 'C' and 'B'. Turn left (SW) on Road B 1.55 mi. to 2nd St. Turn right (NE) on 2nd St. 0.5 mi. to a dirt road. Turn left on dirt road and proceed 0.8 mi. west. 274 ft. north of the road, 4 ft. south of a rock cairn, an aluminum disk stamped "74 TJS 1983."

9-1165 required ☐
9-1165 not required ☐

BM H&N D3 ACCUM. DISTANCE ____ k ELEV ____ m

Mercury, Nevada, from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 21.3 mi. to a guard station at the intersection of roads 'C' and 'B'. Turn left (SW) on Road B 1.55 mi. to 2nd St. Turn right (NE) on 2nd St. 0.5 mi. to a dirt road. Turn left on dirt road and proceed .45 mi. 225 ft. east of road, 2 ft. south of a 4x4 post, a concrete post with a brass disk stamped "H&H BM D3 1956 3396.14"

BENCH MARK DESCRIPTIONS

9-1165 required ☐
9-1165 not required ☐

BM 75 TJS 1983 ACCUM. DISTANCE ____ k ELEV ____ m

Mercury, Nevada, from the intersection of Mercury Highway and Jackass Flat road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 21.3 mi. to a guard station at the intersection of roads 'C' and 'B'. Turn left (SW) on Road B 1.55 mi. to 2nd St. Turn right (NE) on 2nd St. 0.1 mi., then left 0.2 mi., then right 0.05 mi to building 4919. BM is at the southwest corner of the building, cemented in the northwest corner of a concrete apron. An aluminum disk stamped "75 TJS 1983."

9-1165 required ☐
9-1165 not required ☐

BM H&N D2 ACCUM. DISTANCE ____ k ELEV ____ m

Mercury, Nevada, from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 19.2 mi. to a curve in the road and a track road NW. Turn left onto the track road and proceed NW 2.0 miles. 0.2 miles east of another paved road (Road B), 300 ft. N. of the track road, 2 ft. S of a 4x4 post, a concrete post with a brass disk stamped "H&N BM D2 1956 3398.18."

BENCH MARK DESCRIPTIONS

9-1165 required ☐
9-1165 not required ☐

BM 76 TJS 1983 ACCUM. DISTANCE ____ k ELEV ____ . ____ m

Mercury, Nevada. From the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 19.2 miles. to a track road NW at a curve in the highway. Turn left onto the track road, and proceed NW 1.65 miles. 166 ft north of the road, 6 ft south of a rock cairn, an aluminum disk stamped "76 TJS 1983."

.35

9-1165 required ☐
9-1165 not required ☐

BM HAN D1 ACCUM. DISTANCE ____ k ELEV ____ m

Mercury, Nevada, from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of a guard station in Mercury), proceed northwesterly on Jackass Flat Road 19.2 miles to a track road NW at a curve in the highway. Turn left onto the track road, and proceed NW 1.3 miles. 265 ft north of the road, 2 ft. south of a 4x4 post, a concrete post with a brass disk stamped "HAN BM D1 1956 3426.96."

.35

BENCH MARK DESCRIPTIONS

9-1165 required ☐
9-1165 not required ☐

BM 77 TJS 1983 ACCUM. DISTANCE _____ k ELEV _____ m

Mercury, Nevada, from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 19.2 miles to a track road NW at a curve in the highway. Turn left onto the track road, and proceed NW 0.95 miles. 257 ft north of the road, 8 ft south of a rock cairn, an aluminum disk stamped "77 TJS 1983.".

9-1165 required ☐
9-1165 not required ☐

BM H&N DA ACCUM. DISTANCE _____ k ELEV _____ m

Mercury, Nevada, from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi north of guard station in Mercury) proceed northwesterly on Jackass Flat Road 19.2 mi. to a track road NW at a curve in the highway. Turn left onto the track road, and proceed NW 0.60 miles. 180 ft north of the road, 2 ft. south of a 4x4 post, a concrete post with a brass disk stamped "H&N BM DA 1956 3456.29."

BENCH MARK DESCRIPTIONS

9-1165 required ☐
9-1165 not required ☐

BM 78 TJS 1983 ACCUM. DISTANCE ____ k ELEV ____ m

Mercury, Nevada, from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 19.2 mi. to a curve in the road. BM is 224 ft south of the SE end of the curve, and is in-line with a track road ~~NE~~. 7 ft. south of a rock cairn, an aluminum disk stamped "78 TJS 1983."

9-1165 required ☐
9-1165 not required ☐

BM 79 TJS 1983 ACCUM. DISTANCE ____ k ELEV ____ m

Mercury, Nevada, from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 18.55 miles. 155 ft south of the road. 6 ft south of a rock cairn, an aluminum disk stamped "79 TJS 1983."

BENCH MARK DESCRIPTIONS

9-1165 required [X]
9-1165 not required [ ]

BM H&N 24A ACCUM. DISTANCE ____ k ELEV ____ m

Mercury, Nevada, from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 17.85 miles. 90 ft. south of the road, 2 ft north of a 4x4 post, a concrete post with a brass disk stamped "H&N BM 24A 1956 3750.04."

9-1165 required [ ]
9-1165 not required [X]

BM 80 TJS 1983 ACCUM. DISTANCE ____ k ELEV ____ m

Mercury, Nevada, from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 17.4 miles. 138 ft south of the road, 6ft south of a rock cairn, an aluminum disk stamped "80 TJS 1983."

BENCH MARK DESCRIPTIONS

9-1165 required
9-1165 not required

BM H&N 23A ACCUM. DISTANCE k ELEV m

Mercury, Nevada, from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 16.95 miles. Near the south end of a curve in the road, 200 ft west of the road, 2 ft east of a 4x4 post, a concrete post with an a brass disk stamped "H&N BM 23A 1956 3871.55."

9-1165 required
9-1165 not required

BM 81 TJS 1983 ACCUM. DISTANCE k ELEV m

Mercury, Nevada, from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 16.65 miles. 200 ft west of the road, 5 ft south of a rock cairn, an aluminum disk stamped "81 TJS 1983."

BENCH MARK DESCRIPTIONS

9-1165 required [ ]
9-1165 not required [ ]

BM H&N 22A ACCUM. DISTANCE ____k ELEV ____m

Mercury, Nevada, from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 16.3 miles. 200 ft west of the road, 2 ft east of a 4x4 post, a concrete post with a brass disk stamped "H&N BM 22A 1956 3731.61."

9-1165 required [ ]
9-1165 not required [ ]

BM 82 TCS 1983 ACCUM. DISTANCE ____k ELEV ____m

Mercury, Nevada, from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 15.9 miles. 185 ft west of the road, 9 ft south of a rock cairn, an aluminum disk stamped "82 TCS 1983."

BENCH MARK DESCRIPTIONS

9-1165 required ☐
9-1165 not required ☐

BM H&N 21A ACCUM. DISTANCE _____ k ELEV _____ m

Mercury, Nevada, from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 15.4 miles. 200 ft west of road, near the north end of a curve, 2 ft east of a 4x4 post, a concrete post with a brass disk stamped "H&N BM 21A 1956 3543.34."

9-1165 required ☐
9-1165 not required ☐

BM 83 TJS 1983 ACCUM. DISTANCE _____ k ELEV _____ m

Mercury, Nevada, from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 14.9 miles. Near the southeast end of a curve, 139 ft south of the road, 230 ft west of a drain, 7 ft south of a rock cairn, an aluminum disk stamped "83 TJS 1983."

BENCH MARK DESCRIPTIONS

9-1165 required ☐
9-1165 not required ☐

BM 20A H&N ACCUM. DISTANCE _____ k ELEV _____ m

Mercury, Nevada. from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 14.2 miles. 200 ft. south of the road, one ft. north of a 4x4 post, a concrete post with a brass disk stamped "H&N BM 20A 1956 3452.96."

9-1165 required ☐
9-1165 not required ☐

BM 84 TJS 1983 ACCUM. DISTANCE _____ k ELEV _____ m

Mercury, Nevada. from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 13.8 miles. 127 ft. south of the road, 6 ft south of a rock cairn, an aluminum disk stamped "84 TJS 1983."

BENCH MARK DESCRIPTIONS

9-1165 required
9-1165 not required

BM 19A H&N ACCUM. DISTANCE ____ k ELEV ____ m

Mercury, Nevada, from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 13.6 miles. 215 ft. south of the road, 2 ft north of a 4x4 post, a concrete post with a brass disk stamped "H&N BM 19A 1956 3430.01"

9-1165 required
9-1165 not required

BM 85 TJS 1983 ACCUM. DISTANCE ____ k ELEV ____ m

Mercury, Nevada, from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 13.1 miles. 158 ft. south of the road, 6 ft. south of a rock cairn, an aluminum disk stamped "85 TJS 1983"

BENCH MARK DESCRIPTIONS

9-1165 required ☐
9-1165 not required ☐

BM 18 A H&N ACCUM. DISTANCE ____ k ELEV ____ m

Mercury, Nevada, from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 12.7 miles. 200 ft south of the road, 2 ft north of a 4x4 post, a concrete post with a brass disk stamped "H&H BM 18A 1956 3434.97"

9-1165 required ☐
9-1165 not required ☐

BM 86 TJS 1983 ACCUM. DISTANCE ____ k ELEV ____ m

Mercury, Nevada, from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 12.45 miles. 170 ft south of the road, 6 ft south of a rock cairn. an aluminim disk stamped "86 TJS 1983."

BENCH MARK DESCRIPTIONS

9-1165 required
9-1165 not required

BM 17 A H&N ACCUM. DISTANCE ____ k ELEV ____ m

Mercury, Nevada, from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 12.2 miles. 280 ft south of the road, 3 ft. north of a 4x4 post, a concrete post with a brass disk stamped "H&N BM 17A 1956 3427.95."

9-1165 required
9-1165 not required

BM 87 TJS 1983 ACCUM. DISTANCE ____ k ELEV ____ m

Mercury, Nevada. from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 11.75 miles. At a track road south: 273 ft south of the center of the track road intersection, an aluminum disk cemented in bedrock and stamped "87 TJS 1983."

BENCH MARK DESCRIPTIONS

9-1165 required ☐
9-1165 not required ☐

BM 16A H&N ACCUM. DISTANCE _____ k ELEV _____ m

Mercury, Nevada, from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 11.55 miles. 110 ft. south of the road, 2 ft north of a 4x4 post, a concrete post with a brass disk stamped "H&N BM 16A 1956 3476.13."

9-1165 required ☐
9-1165 not required ☐

BM _____ ACCUM. DISTANCE _____ k ELEV _____ m

BENCH MARK DESCRIPTIONS

9-1165 required
9-1165 not required

BM 1 PDI 1986 ACCUM. DISTANCE ____ k ELEV ____ m

Mercury, Nevada from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 10.75 miles, 0.4 mi. west of T-rd. north, 100 ft. south of highway, 6 ft. east of rock cairn, an aluminum disk stamped "1 PDI 1986".

9-1165 required
9-1165 not required

BM ____ ACCUM. DISTANCE ____ k ELEV ____ m

BENCH MARK DESCRIPTIONS

9-1165 required ☐
9-1165 not required ☐

BM 3 PDI 1986 ACCUM. DISTANCE _____ k ELEV _____ m

Mercury, Nevada from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 9.6 miles, at a curve on the top of a small rise, 130 ft. north of the highway, 2 ft. west of a rock cairn an aluminum disk stamped "3 PDI 1986".

9-1165 required ☐
9-1165 not required ☐

BM 2 PDI 1986 ACCUM. DISTANCE _____ k ELEV _____ m

Mercury, Nevada from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 10.2 miles, 0.15 mi. east of T-rd. north, 100 ft. south of the highway, 4 ft. west of rock cairn, an aluminum disk stamped "2 PDI 1986".

PAGE ____

BENCH MARK DESCRIPTIONS

9-1165 required ☐
9-1165 not required ☐

BM 14 A H&N ACCUM. DISTANCE ____ k ELEV ____ m

Mercury, Nevada from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 8.75 miles, 199 ft. north of the highway, 2 ft. south of 4 X 4 post, a concrete post with a brass disk stamped "H&N BM 14A 1956 3608.64".

9-1165 required ☐
9-1165 not required ☐

BM 15 A H&N ACCUM. DISTANCE ____ k ELEV ____ m

Mercury, Nevada from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 9.25 miles, 284 feet south of the highway, 4 ft. east of 4 X 4 post, a concrete post with a brass disk stamped "H&N BM 15A 1956 3669.14".

BENCH MARK DESCRIPTIONS

9-1165 required ☐
9-1165 not required ☐

BM 12 A H&N ACCUM. DISTANCE _____ k ELEV _____ m

Mercury, Nevada from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 7.55 miles, 276 ft. south of the highway, 3 ft. north of 4 X 4 post, a concrete post with a brass disk stamped "H&N BM 12A 1956 3505.66".

9-1165 required ☐
9-1165 not required ☐

BM 13 A H&N ACCUM. DISTANCE _____ k ELEV _____ m

Mercury, Nevada from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 8.25 miles, 209 ft. South of the highway, 3 ft north of 4 X 4 post, a concrete post with a brass disk stamped "H&N BM 13A 1956 3567.41".

BENCH MARK DESCRIPTIONS

9-1165 required ☐
9-1165 not required ☐

BM 4 PDI 1986 ACCUM. DISTANCE _____ k ELEV _____ m

Mercury, Nevada from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 6.35 miles, 107 ft. south of the highway, 4 ft. east of rock cairn, an aluminum disk stamped "4 PDI 1986".

9-1165 required ☐
9-1165 not required ☐

BM 11 A H&N ACCUM. DISTANCE _____ k ELEV _____ m

Mercury, Nevada from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 6.8 miles, 325 ft. south of the highway 3 ft. north of 4 X 4 post, a concrete post with a brass disk stamped "H&N BM 11A 1956 3467.13".

BENCH MARK DESCRIPTIONS

9-1165 required ☐
9-1165 not required ☐

BM 9 A H&N ACCUM. DISTANCE _____ k ELEV _____ m

Mercury, Nevada from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 5.5 miles, 213 ft. west of highway 2 ft. east of 4 X 4 post, a concrete post with a brass disk stamped "H&N BM 9A 1956 3361.11".

9-1165 required ☐
9-1165 not required ☐

BM 10 A H&N ACCUM. DISTANCE _____ k ELEV. _____ m

Mercury, Nevada from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 6.0 miles, at a cut bank in highway, 148 ft. southof the highway, 2 ft. west of 4 X 4 wood post, a concrete post with a brass disk stamped "H&N BM 10A 1956 3407.52".

BENCH MARK DESCRIPTIONS

9-1165 required ☐
9-1165 not required ☐

BM 7 A E&N ACCUM. DISTANCE _____ k ELEV _____ m

Mercury, Nevada from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 4.4 miles, 181ft. east of the highway, 2 ft. west of a 4 X 4 post, a concrete post with a brass disk stamped "E&N BM-7A 1956 3292.08".

9-1165 required ☐
9-1165 not required ☐

BM 8 A-E&N ACCUM. DISTANCE _____ k ELEV _____ m

Mercury, Nevada from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 5.0 miles, 214 ft. east of highway on small rise, 2 ft. west of 4 X 4 post, a concrete post with a brass disk stamped "E&N BM 8A 1956 3254.43".

BENCH MARK DESCRIPTIONS

9-1165 required ☐
9-1165 not required ☐

BM 5 FDI 1986 ACCUM. DISTANCE ____ k ELEV ____ m

Mercury, Nevada from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 4.4 miles to road junction, thence turn westerly (left) on road for 0.05 mi. to road junction, thence 0.01 mi. south along road, 123 ft. west of road, 16 ft. west of rock cairn, 0.1 mi. north of locked gates, an aluminum disk stamped "5 FDI 1986".

9-1165 required ☐
9-1165 not required ☐

BM 6 FDI 1986 ACCUM. DISTANCE ____ k ELEV ____ m

Mercury, Nevada from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 4.4 miles to road junction, thence turn westerly (left) on road for 0.05 mi. to road junction, thence 0.35 mi. south to locked gates, thence 0.5 mi. south along road, 88 ft. east of road, an aluminum disk stamped "6 FDI 1986".

BENCH MARK DESCRIPTIONS

9-1165 required ☐
9-1165 not required ☐

BM 7 PDI 1986 ACCUM. DISTANCE _____ k ELEV _____ m

Mercury, Nevada from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 4.4 miles to road junction, thence turn westerly (left) on road for 0.05 mi. to road junction, thence 0.35 mi. south to locked gates, thence 1.1 miles south along road, 104 ft. west of road, 4 ft west of rock cairn, an aluminum disk stamped "7 PDI 1986".

9-1165 required ☐
9-1165 not required ☐

BM 8 PDI 1986 ACCUM. DISTANCE _____ k ELEV _____ m

Mercury, Nevada from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 4.4 miles to road junction, thence turn westerly (left) on road 0.05 mi. to road junction, thence 0.35 mi. south to locked gates, thence 1.7 miles south along road, 83 ft. west of road, 8 ft. north of rock cairn, 26 ft. SE of old road, an aluminum disk stamped "8 PDI 1986".

BENCH MARK DESCRIPTIONS

9-1165 required ☐
9-1165 not required ☐

BM 9 FDI 1986 ACCUM. DISTANCE ____ k ELEV ____ m

Mercury, Nevada from the intersection of Mercury Highway and Jackass Flat Road (0.9 mi. north of guard station in Mercury), proceed northwesterly on Jackass Flat Road 4.4 miles to road junction, thence turn westerly (left) on road 0.05 mi. to road junction, thence 0.35 mi. south to locked gates, thence 2.45 miles south along road to locked gates, 84 ft. west of road, 18 ft north of trench barrier, 0.45 mi. north of road junction with S. H. 95, an aluminum disk stamped "9 FDI 1986".

9-1165 required ☐
9-1155 not required ☐

BM ____ ACCUM. DISTANCE ____ k ELEV ____ m

YUCCA MOUNTAIN PROJECT

NEVADA TEST SITE

FIELD ABSTRACT

PROJECT REPORT

SUBMITTED BY PHILL J. IBARRA

WINTER 1988

NEVADA TEST SITE GEODETIC SURVEYS
(Yucca Mountain Project)

The project consists of reobserving all level lines and the five quadrilaterals using first order, class I procedures and standards except: when the new forward run elevation difference for existing sections agreed with the most recent previous elevation difference within 5 mm times the square root of the section length in kilometers, the back run is eliminated.

Reverse direction leveling was done.

QUADRILATERALS

The following leveling was performed on the quadrilaterals:

Trench 1:	level all four sides
Trench 14:	Level all four sides
Solitario:	Level NE corner to NW corner
Yucca Ridge:	Level NE corner to NW corner
	Level SE corner to SW corner
Fran Ridge:	NE corner to NW corner

Measurements were taken with the Nikon ND 21. The tribracket was centered over the four marks at each quadrilateral. None of the tripods or tribrackets were moved until the observations were completed.

Measurements for the H.I. was taken measuring from the mark to the special tri-bracket H.I. plate to 1mm. This is a slope distance from the center of the mark to the edge of the plate.

Meteorological data at the instrument and reflector sites was taken. Temperature was taken at the instrument height.

Vertical angles were taken (near simultaneous) on all six lines. Angles were turned to signal lights mounted on the theodolite at the other end of the line.

DATA COLLECTION

Data collection for the leveling was done using the Hewlett-Packard 41 CV calculator. Data was printed using the HP printer, stapled to form 780513 and placed in a hard back folder. Leveling data is stored on cassett.

Data for trilateration is recorded on USGS Form 9-322.1c and Rocky Mountain Center Experimental Form 1980.

INSTRUMENTATION

The Jena NI 002 level, Jena tripod, Kern 0.5cm matched rods, HP 41 CV calculator, and turning plates are the primary leveling instruments used. Instruments used for the quadrilaterals consisted of the Nikon ND 2; (infrared), reflectors, wild tripods, tri-brackets, theodolite, and meteorological instruments.

The collimation was checked once a day for the first week and once a week thereafter.

SECURITY RESTRICTIONS

Two-thirds of the project falls on the Nevada Test Site. All personnel required security badging by the NTS. No problems were encountered in the process of completing the project.

FINAL PRODUCT

A control list of each bench mark with the length of the section and the difference of elevation between the marks is included.

Final product for the quadrilateral surveys consists of a control list for each quadrilateral. All materials involved with the relative lengths for the six sides and relative elevations went to the office with G. Perasso and will later be added to the final notes. Leveling notes are submitted with the rest of the project notes.

See the Final Abstract submitted for the difference of elevation for all marks and the quadrilaterals.

Submitted as project materials are: eight cassett tapes (2 abstract tapes and 5 field note tapes with duplicates), hard back notebook with print out of section notes, and abstract copies.

SUMMARY

The project went very well as a whole. Work days lost due to weather numbered 12. Days lost due to truck break down was minimal. It was only at the end of the project that time was lost.

The excellent field assistants and refinement of procedures over the years made this project one of the smoothest running operation since I have been involved with the program. It was an enjoyable project.

Philip Ibarra
Party Chief

United States Department of the Interior

GEOLOGICAL SURVEY
BOX 25046 M.S. 421
DENVER FEDERAL CENTER
DENVER, COLORADO 80225

IN REPLY REFER TO:
March 15, 1994

WBS 1.2.5.3
Information Only

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To STEVE Bodnar	From PAT McKinley
Co.	Co.
Dept.	Phone # 303 236 5731
Fax # (702) 794 7033	Fax #

Subject: NRC Data Request

RE: ltr to Dwight Shelor dated March 07, 1994

In response to Steve Bodnar's telephone call today, I am providing the following information about the subject data request.

	Data Tracking Number	
1)	GS930731174101.001	YMP Level Data: 11/90 - 7/91 Section Observations NNA.931214.0118
2)	GS930731174101.002	GPS Data, Calibrations for GPS Receivers NNA.931214.0120
3)	GS930731174101.003	1983-1988 Leveling Results, Quadrilateral Results NNA.931214.0123
4)	GS930731174101.005	YMP Level Data Geodetic Leveling and Section Observations NNA.931214.012 1992-1993

Data represented by the above four DTNs are in the ATDT and the CRF.

5)	GS931031174102.002	Geodolite data 1983-1984
6)	GS931031174102.003	Geodolite & GPS data 1993

Data in 5 and 6 will be in the CRF in 15 days. These data are from the Trilateration Network Centered on Yucca Mountain.

The following data are from the Southern Great Basin Seismic Network for 1980 - 1991.

7)	GS900983117411.005	OFR 87-596 in the CRF and submitted to the TDB NNA.870821.0046
8)	GS900983117411.006	OFR 87-408 in the CRF and submitted to the TDB HQS.880517.1409
9)	GS900983117411.003	OFR 83-669 in the CRF and submitted to the TDB NNA.890523.0102
10)	GS900983117411.001	OFR 81-1086 in the CRF and submitted to the TDB NNA.870518.0068
11)	GS920983117412.032	OFR 91-572 in the CRF and submitted to the TDB NNA.920.408.0001
12)	GS920983117412.022	OFR 92-340 in the CRF and submitted to the TDB NNA.920629.0129
13)	GS920983117412.014	OFR 91-367in the CRF and submitted to the TDB NNA.920213.0219

INFORMATION ONLY

YMP Level Data 11/90 - 07/91
Section Observations

FORWARD - BACK

PAGE 1

FROM BM S16 RESET (101102) TO BM 1 JD 1952

101102 D167
102103 D103
326.0000 ***
LEVEL NI002 460673
ROD A KERN 314765
ROD B KERN 314764

LINE 1
SECTION 101102
DATE TIME 90112803
STATE/MAN "NY LIN"
TEMP IN °F"
ROD d 6
ROD CM UNIT 0.5
SKY,WIND(†,V) "0 NW5"
452.474
34038.32420
28578.26930
67822.73281
456.458
30959.28510
29726.27200
68985.78214
464.468
26588.23980
26157.23710
65489.65844
494.478
27862.25580
27392.25820
66648.67123
511.491
29668.27630
25881.23610
65148.69130
497.483
30958.28410
26102.23650
65368.78223
514.482
31794.29020
23348.28600
62620.71064
530.507
29736.27310
26256.23700
65529.69085
523.500
31661.29280
26558.24188
65817.78927

498.581
32715.30830
26516.23850
65785.71988
514.502
33703.31119
26586.23990
65853.72973
515.495
34864.32220
27523.24890
66786.74131
514.515
32655.29950
24550.21830
63819.71925
528.523
32364.29710
25962.23490
65228.71628
533.508
32768.30280
23362.20730
62630.72832
534.529
32452.29890
23641.21060
62908.71724
536.526
33434.30893
21643.19180
60912.72781
544.521
33388.30810
25256.22690
64529.72657
517.530
33529.31090
26328.23910
65681.72799
527.526
32940.30290
24779.22000
64054.72213
533.529
34286.31450
24688.21870
63958.73559
535.537
34611.31980
25862.23250
65138.73877
522.540
33493.30790
25134.22420
64414.72774

548.543
35000.32210
25234.22450
64511.74276
567.541
35868.33089
26147.23339
65428.75146
543.535
34457.31690
29353.26490
68638.73733
562.556
30513.29190
28189.26780
67453.69775
558.543
36932.35850
19835.17960
58299.76194
"Σ10" ***
675.180 ***
675.480 ***
1936.580 ***
1936.680 ***
1.351 ***
9.6830 ***
29 ***

11-28-90@0850
PEG TEST
C = -0.001 mm/m
Rejected

FORWARD - BACK PAGE ____

FROM BM S16 RESET 1978 TO BM IJD 1952
101 → 102

EMDIR
101102 D143
455.0000 ***

LEVEL HI002 460673
ROD A KERN 314765
ROD B KERN 314764

LINE 1
SECTION 101102
DATE TIME 91020109
STATE/MAN *NV LIN*
TEMP IN :F*
ROD d 0
ROD CM UNIT 0.5
SKY,WIND(t,V) -3.E-1
434.454
38044.34900
25927.22780
65191.77304
428.439
27474.24050
26781.23300
65963.66732
448.448
28392.24700
26966.23280
66232.67644
438.446
29781.25990
26022.22300
65282.68957
448.453
31321.28240
24676.21660
63933.78573
457.461
31871.28900
24289.21210
63473.71140
466.469
30267.27290
21216.18490

38130.27500
28484.25780
67744.69393
487.484
34639.31820
21585.18700
68754.73885
489.496
30261.27830
21713.19250
68969.69519
494.492
29643.26800
22709.20890
61973.68904
499.500
33813.30260
23232.20380
62494.72270
499.502
29910.27210
20005.17390
59265.69165
528.515
33340.30790
23327.20800
62592.72601
521.518
33794.30910
24208.21450
63474.73061
512.514
32545.30100
24845.22200
64105.71810
524.526
32218.29610
25573.23110
64838.71485
528.535
34396.31650
24088.21210
63351.73662
541.536
32388.29690
23703.21130
62973.71654
536.544
32413.29640
23680.20840

02-01-91
PEGTEST @ 16:40
COLL = -0.02 mm/m

33435.30850
24304.21
63567.72700
543.551
31947.29100
23231.20200
62492.71210
560.562
33896.30450
27620.24390
66891.73167
583.589
28179.26630
11783.10280
50965.67439
Σ10 ***
670.400 ***
670.300 ***
1975.760 ***
19.5.450 ***
1.341 ***
9.6780 ***

FORWARD (BACK)

PAGE ___

FROM BM 1JD 1952 TO BM 516 RESET 1973

102 → 101

102101 I:83

415.6606 ***

LEVEL HI002 460673

ROD A KERN 314765

ROD B KERN 314764

LINE 1

SECTION 102101

DATE TIME 90113012

STATE/MAN "HV LIN"

TEMP IN "F"

ROD d e

ROD CM UNIT 0.5

SKY,WIND(T,V) "0 SE10"

630.654
16883.15299
37272.35710
76533.56143
608.625
29699.26729
31470.28466
70745.68974
603.604
25437.22696
34729.32899
74085.64719
613.622
24714.21803
33802.30100
72278.63966
614.602
26475.23520
37201.34399
76473.65752
638.624
27246.24599
35777.32920
75057.66522
626.618
24015.21210
35295.32520
74573.63292
617.618
27499.24510
35981.32956
75263.66777
622.622
26998.24200
36156.33490
75429.66276
616.618
27826.25010
36165.33469
75445.67103

622.618
27060.24296
37075.34298
76363.66348
634.623
25917.22898
35929.32990
75285.65196
608.618
25816.22190
35783.32810
75064.64294
614.618
27585.24990
34762.31779
74042.67268
620.612
25874.22750
38990.35920
78275.65154
616.612
30617.27610
34117.31000
73394.69892
626.622
25085.21980
35578.32310
74858.64367
619.616
27137.24005
33133.30056
72489.66416
621.617
27588.24300
36118.33000
75393.66760
618.616
31268.28250
31565.28690
70836.70542
620.616
29469.26480
34222.31120
73489.68741

616.616
30849.27630
28876.24890
67352.70125
625.624
29485.26380
30958.27850
70235.68663
616.622
25278.23060
39469.37250
78735.64540
"E10" ***
676.600 ***
675.900 ***
-1935.630 ***
-1935.710 ***
1.353 ***
-9.6784 ***
24 ***

11-30-90
@ 1100

PEG TEST

e = -0.02mm/m

Form 780513

FORWARD - BACK

PAGE 2

FROM BM LWD 1952 TO BM 1 TJS

(102103)

LEVEL HI002 460673
ROD A KERN 314765
ROD B KERN 314764

LINE 1
SECTION 102103
DATE TIME 9011281
STATE/MAN "NV LIN"
TEMP IN "F"
ROD d 6
ROD CM UNIT 6.5
SKY,WIND(↑,V) "0 SW5"

	543.562
	23130.21120
	21601.19630
	60867.62391
	560.575
	40935.38310
	21051.18420
	60321.80202
	576.568
	40439.37890
	18724.16120
	58000.79717
	572.562
	41396.38600
	18343.15620
	57618.80670
	560.555
	39928.37490
	18004.15410
	57275.79200
	598.573
	43343.40810
	17927.15580
	57202.82618
	575.565
	44769.41890
	15566.12810
	54844.84044
	562.564
	46327.43530
	13482.10580
	52754.85596

	558.556
	46878.43720
	14676.11710
	53951.86151
	584.581
	45918.43100
	11498.08500
	50775.85195
	558.566
	50882.47930
	21656.18790
	60931.90160
	583.583
	50360.47450
	14637.11790
	53911.89638
"Σ10"	***
318.600	***
317.200	***
3071.406	***
3071.330	***
0.636	***
15.3508	***
12	***

Form 780513

FORWARD - (BACK)

PAGE ____

FROM CM 1 TJS 103 → TO BM 1 JD 1952 102

```
104103  D119
998999  D063
103102  D127
        285.0000    ***
LEVEL NI002  460673
ROD A KERN  314765
ROD B KERN  314764

LINE    1
  SECTION    103102
    DATE TIME  98112913
      STATE/MAN "HV LIN"
        TEMP IN     "F"
              ROD d   6
     ROD CM UNIT   0.5
SKY,WIND(T,V) "3.E-1 "
              562.560
            14219.11830
            41691.39410
            80964.53494
               592.600
            21106.18490
            46874.44118
            86152.60381
               560.566
            14495.11880
            46318.43900
            85594.53775
               584.585
            17586.15050
            44585.41980
            83782.56861
               573.577
            15543.12700
            46922.44110
            86208.54824
               584.585
            17863.14680
            44148.41600
            83419.56341
               571.579
            18158.15090
            41083.33690
            81157.57423
               580.580
            20085.17750
            44655.42230
            83928.59361
               576.576
            22949.28520
            40814.38540
            88089.62227
               589.585
            20163.17910
            39964.37720
            79236.59433
               582.588
            19773.17390
            41734.39250
            81818.59845
               588.585
            22198.19710
            40882.38390
            80875.61461
               583.578
            21748.19518
            38982.36690
            78254.61818
               596.600
            27885.26990
            20843.19980
            60183.67140
           "Σ10"    ***
          318.000   ***
          319.800   ***
        -3071.720   ***
        -3071.790   ***
            0.638   ***
          -15.3588  ***
               14   ***
```

FORWARD - BACK

PAGE ____

FROM BM 1 TJS 103 → TO BM 2 TJS 104

EMDIR

103104 D167
104105 D167
262.0000 ***
LEVEL NI002 460673
ROD A KERN 314765
ROD B KERN 314764

LINE 1
SECTION 103104
DATE TIME 90120389
STATE/MAN "NV LIN"
TEMP IN °F"
ROD d 0
ROD CM UNIT 0.5
SKY,WIND(†,V) "3.E-1 "
487.478
46193.43580
17816.14390
56277.85455
483.501
48826.37750
12957.10490
52223.79287
505.512
46783.44020
18927.13400
50196.86053
506.527
45322.42890
12890.10550
52155.84585
508.522
48891.45540
18535.16100
57798.87359
520.523
45793.43750
14558.12590
53822.85858
524.526
47876.45780
12982.10780
52253.87144
530.518
48299.46810
11678.13810
50943.87567
529.538
47855.44920
14285.12030
53554.86323
525.538
47439.45830
13188.15470
52450.06700

522.571
48298.45750
13632.11156
52900.87559
535.548
46448.43850
17849.14550
56322.85721
537.547
42985.48450
17837.15190
57113.82176
534.552
44732.42410
12283.10850
51552.84002
536.548
47815.45590
13134.10710
52485.87884
538.552
47112.44620
13768.11380
53834.86361
536.562
45659.43420
14163.11900
53429.84924
535.553
49492.46820
12389.14920
51659.88761
541.558
41877.38820
19454.17230
58719.88345
536.555
45163.42820
22524.20150
61791.84431
572.569
48314.45710
25983.23410
65174.87580
550.589
49839.48950
20250.19450
59507.89095
573.614
35117.34300
24111.23230
63370.74375
556.565
25850.24110
21281.20240
60538.64300

"Σ10" ***
517.100 ***
516.900 ***
6930.950 ***
6930.930 ***
1.034 ***
34.6547 ***
24 ***

12-3-90 @ 8:15 AM
PEG TEST
C=.00221 m/h

FORWARD (BACK) PAGE ____

FROM BM ~~ENTRANCE 2 TJS~~ 104 → TO BM 1 TJS 103

104103 B151
447.0000 ***
LEVEL NI002 468673
ROD A KERN 314765
ROD B KERN 314764

LINE 1
SECTION 104103
DATE TIME 90112909
STATE/MAN "MY LIN"
TEMP IN °F"
ROD d 0
ROD CM UNIT 0.5
SKY,WIND(†,V) "0 MS"

439.440
14046.11410
54838.52310
74098.33306
466.443
23988.21280
48346.45850
67607.43250
457.453
16420.13890
44806.42300
64071.35687
458.454
28426.18000
42966.40595
62233.39690
464.458
10583.07820
50200.47480
69469.29852
459.454
11473.08720
49520.46810
68795.30744
454.451
12374.09620
50178.47310
69449.31640
482.496
17424.15860
46005.44300
65266.36686
482.492
19966.18550
41809.40330
61073.39226
484.494
24588.23330
37521.36290
56778.43849
496.494
25594.24220
36961.35600
56222.44853
485.495
24343.22950
37518.36120
56776.43599
489.489
23772.22410
37632.36380
56893.43033
489.494
22886.21610
38779.37550
58839.42865
490.492
23588.22610
36587.35780
55844.42842
489.487
23874.21990
38810.37620
58869.42333
502.498
22936.21880
38489.37310
57666.42193
506.509
21501.20320
39025.37876
58281.40759
507.510
19885.18490
40672.39390
59931.39142
507.504
19408.18010
43454.41900
62715.38667
502.499
17744.16210
43116.41700
62375.37004
512.508
16963.15470
42533.40980
61793.36228
520.513
17634.15920
44730.42980
63991.36900
532.515
16704.14680
44169.42010
63434.35971
547.542
14580.12220
46371.44000
65640.33852
541.539
16399.14230
46185.43910
65372.35662
531.535
16729.14650
44146.42050
63419.36001
550.560
17680.15190
41413.39092
60686.36956
553.565
23984.22946
34597.33520
53765.43243
548.564
24225.23350
32832.32000
52091.43483
"Σ10" ***
513.900 ***
515.700 ***
-6931.210 ***
-6931.250 ***
1.030 ***
-34.6562 ***
30 ***

11-29-90 @ 0830
PEG TEST
C = -0.004 mm/m

Form 780513

FORWARD - BACK PAGE ____

FROM BM 2TJS TO BM 3TJS

104 → 105

LEVEL N1002 468673
ROD A KERN 314765
ROD B KERN 314764

LINE 1
SECTION 184185
DATE TIME 98120312
STATE/MAH "NV LIN"
TEMP IN "F"
ROD d 8
ROD CK UNIT 8.5
SKY,WIND(†,V) "3.E-1 "
579.596
34696.32120
48453.37980
79724.73968
621.683
46786.44298
14968.12310
54237.86054
589.686
43591.41320
17956.15920
57225.82861
587.594
43189.40680
17185.14710
56378.82462
576.588
44933.42410
17000.14510
56270.84205
587.592
47216.44420
12767.15488
52043.86493
588.594
44829.42490
11945.14290
51219.84183
573.573
47475.45780
13369.11810
52632.86739
572.584
45325.43900
15358.13890
54620.84587
583.587
42188.39190
33554.30700
72824.81457
584.585
38842.36090
18374.16310
57642.77303
584.594
44488.42550
15168.13890
54424.83671
577.588
46032.44230
12868.11280
52135.85299
585.590
51237.49580
15647.14010
54910.90581
586.583
43779.42250
16559.14910
55823.83039
579.588
48222.46320
15219.13390
54481.87497
588.583
48353.37540
32852.29910
72129.79630
575.575
41964.40310
15949.14489
55286.81226
583.578
46483.44980
14769.13080
54032.85742
571.568
43348.41680
20442.18790
59704.82608
594.596
44458.42290
16353.14290
55621.83726
604.600
46069.43560
17356.14980
56628.85338
584.590
48846.47890
20898.18900
59355.88185
587.587
49579.48216
13713.12550
52972.88839
585.593
43620.42990
22077.21386
61335.82873
588.595
48230.39380
23123.22210
62380.79489
"Σ10" ***
490.580 ***
490.600 ***
6718.640 ***
6718.610 ***
0.981 ***
33.5931 ***
26 ***

Form 780513

FORWARD - BACK PAGE ____

FROM BM 3TJS 105 → TO BM 2TJS 104

LEVEL NI002 460673
ROD A KERN 314765
ROD B KERN 314765

LINE 1
SECTION 105104
DATE TIME 98120411
STATE/MAH "MV LIN"
TEMP IN °F"
ROD d 6
ROD CM UNIT 0.5
SKY,WIND(↑,V) "1 S1"

568.578
20393.18710
51234.49590
90584.59661
566.570
11796.13140
48688.47250
87948.51859
575.564
16836.15520
48829.39590
80898.56897
564.565
14782.13450
46100.44899
85360.54045
562.575
14949.13990
37337.36220
76598.54205
566.576
17565.15350
46322.44090
85591.56837
579.595
14335.12350
51245.49260
90507.53593
576.591
12382.10510
43057.41180
82324.51647
572.586
30898.28350
36108.33780
75377.78171
568.592
14762.12550
50403.48230
89675.54029
570.598

12520.10410
49564.47380
88831.51783
583.590
10748.12510
53115.51190
92379.50016
592.602
13211.10780
50233.47850
89585.52481
584.601
13620.11180
37819.34520
76291.52891
608.610
31462.29350
32862.30790
72132.70730
613.616
18203.16280
49961.48110
89230.57469
616.612
13453.14780
49733.48220
88994.52713
622.622
11710.10100
44128.42580
83396.50974
618.613
18736.16110
42144.39490
81418.58008
628.623
16810.14300
47996.45480
87266.56076
604.612
16476.13910
44150.41510
83423.55744
612.619
19301.17210
41753.39650
81021.58567
620.621
22251.19610
47513.44750
86781.61524
624.615

42086.40820
37735.36510
76995.81345
615.618
26093.24900
36474.35390
75732.65351
612.608
24178.22830
35694.34380
74955.63436
"Σ10" ***
484.600 ***
484.200 ***
-6718.460 ***
-6718.670 ***
0.969 ***
-33.5928 ***
26 ***

Form 780513

FORWARD - BACK PAGE ____

FROM BM 3TJS TO BM 2JD

105 → 106

```
                ENDIR
105106  D143
106107  D143
107108  D127
        181.0000    ***
          1.0000    CL%
          0.0000    ***
LEVEL NI002  460673
ROD A KERH  314764
ROD B KERH  314764

LINE   1
 SECTION   105106
    DATE TIME  90120589
    STATE/MAN "MV LIM"
      TEMP IN    "F"
             ROD d   0
     ROD CM UNIT   0.5
 SKY,WIND(t,V) "3.E-1 "
             476.496
          19916.18790
          48587.47460
          87756.59164
             475.502
          11758.12820
          49593.48240
          88846.51010
             466.474
          13289.11780
          46906.45320
          86162.52543
             468.469
          12745.11190
          41479.39950
          80731.51999
             475.474
          10844.11980
          45825.43820
          84276.50094
             474.470
          14857.13220
          48388.46820
          87643.54106
             470.467
          19393.17760
          39757.38139
          79008.58648
             463.471
          15819.13390
          42468.39990
          81721.55071
             464.467
          15428.12250
          43386.48210
          82634.54678
             487.501
          21836.17970
          43582.48490
          82752.60285
             498.512
          21967.18790
          38477.27320
          69738.61221
             512.526
          29613.26450
          32157.26990
          71411.68868
             518.532
          28625.25420
          25784.26530
          68958.67880
             528.548
          35634.32490
          28932.25790
          68187.74891
             512.518
          35245.32820
          24482.21120
          63659.74583
             515.523
          33470.30790
          30131.27410
          69386.72726
             525.533
          33555.31640
          27849.25800
          67187.72883
             543.552
          32780.31120
          28863.26410
          67320.72036
        "Σ10"    ***
      398.980    ***
      401.000    ***
    -2747.520    ***
    -2747.550    ***
        0.000    ***
    -13.7377    ***
           18    ***
```

12-5-90 @ 8:40 A.M.
PEG TEST
C = 0.00

Form 780513

FORWARD - PACK

PAGE ____

FROM BM 2JD / 106 TO BM 3TJS → / 105

EMDIR

106105 D167
105104 D167
262.0000 ***
LEVEL HI062 468673
ROD A KERN 314765
ROD B KERN 314765

LINE 1
SECTION 106105
DATE TIME 90120409
STATE/MAH "NV LIN"
TEMP IN "F"
ROD d 0
ROD CM UNIT 0.5
SKY,WIND(†,V) "3.E-1 "
478.496
25492.22390
34358.31300
73617.64747
462.484
26854.23200
31469.28490
70731.65319
584.500
25830.22000
36136.33240
75483.64300
517.525
29869.26020
34166.31220
73437.68330
510.524
26419.23310
28581.25350
67856.65689
505.510
33413.30290
29634.26500
68906.72686
528.532
31315.28500
28307.25390
67577.70587
536.550
38136.35650
21835.19410
61104.77407
542.554
35707.33880
18695.16810
57959.74974
552.558
37432.35190
28975.18710
68246.76706
534.545
40589.38240
17474.15050
56749.79861
512.531
44804.42410
16412.14000
55684.84076
519.534
45245.43010
18479.16250
57758.84512
512.532
44914.43100
16188.14310
55445.84180
518.534
44486.42730
16675.14950
55944.83755
512.522
45295.44080
14316.13220
53579.84554
545.546
52221.51150
10887.11810
50146.91482
548.568
55311.54400
11595.10500
50853.94569
"Σ10" ***
406.500 ***
406.100 ***
2747.590 ***
2747.560 ***
0.813 ***
13.7379 ***
18 ***

12-4-90 @ 8:00A.M.
PEC TEST
C = 0.00

Form 700512

FORWARD - BACK PAGE ____

FROM BM 2JD 106 → TO BM 4TJS 107

LEVEL NI002 460673
ROD A KERN 314764
ROD B KERN 314764

LINE 1
SECTION 106107
DATE TIME 90120511
STATE/MAH "NV LIN"
TEMP IN °F"
ROD d 8
ROD CM UNIT 8.5
SKY,WIND(t,V) "3.E-1 "
565.587
35571.32698
28342.25518
67607.74841
572.588
35548.32600
23149.20128
62415.74813
577.582
37616.34798
24321.21498
63596.76894
576.582
37267.34818
21813.17898
60286.76542
586.592
36885.32958
23598.20488
62875.75367
601.596
38553.35578
24293.21899
63578.77831
604.682
37332.34148
23584.20418
62863.76683
613.686
38938.35788
20804.17718
60081.78212
608.616
39867.36188
23748.20878
63029.78349
632.634
38748.35898
23326.20538
62682.78816
636.639
39255.36218
23283.20246
62564.78537
648.644
40539.37658
21861.18138
60358.79814
668.661
36885.33648
24598.21328
63877.76166
656.656
37318.34238
22919.19798
62199.76597
678.684
38367.35098
16169.12758
55458.77651
671.668
33928.31488
23315.20918
62581.73281
674.689
33228.31618
20889.26518
67355.72486
685.692
33131.30818
23178.20888
62442.72486
"Σ18" ***
513.488 ***
513.388 ***
2485.588 ***
2485.698 ***
1.827 ***
12.4282 ***
18 ***

Form 780513

FORWARD - BACK PAGE ____

FROM BM 4TJS TO BM 2JD

107 → 106

LEVEL HI002 460673
ROD A KERN 314765
ROD B KERN 314764

LINE 1
SECTION 107106
DATE TIME 98120614
STATE/MAN "HV LIN"
TEMP IN °F"
ROD d 0
ROD CM UNIT 0.5
SKY,WIND(↑,V) "0 S5"
603.603
23877.28008
32256.29140
71536.62360
613.618
22889.28540
40469.38818
79744.62885
635.618
26162.23610
37288.34820
76554.65436
634.627
22628.19840
36383.33618
75657.61985
616.618
25138.22500
36984.34290
76262.64417
688.612
26358.23590
36636.33920
75914.65633
620.614
23108.20503
40693.37980
79970.62372
600.606
22271.19200
38986.35910
78178.61546
616.634
24345.21559
38633.35910
77983.63618
653.649
23502.28710
38856.36888
78131.62774
651.659
23381.28720
37933.35370
77200.62650
647.634
23614.20940
37654.34940
76925.62884
622.614
25381.22910
35662.33150
74935.64651
608.618
26829.23690
36886.33720
75354.65381
624.626
25599.22650
36959.34080
76239.64878
614.612
22995.20020
37909.35000
77183.62267
616.611
25313.22750
37266.34690
76488.64586
604.603
24397.21910
35825.33480
75895.63667
606.613
27246.24720
36675.34890
75949.66515
604.606
28485.26690
31333.29770
78594.67748
"Σ10" ***
516.200 ***
514.200 ***
-2485.000 ***
-2485.180 ***
1.030 ***
-12.4257 ***
20 ***

Form 780513

FORWARD - BACK PAGE ____

FROM BM 4TJS 107 → TO BM 5TJS 108

LEVEL NI002 468673
ROD A KERN 314764
ROD B KERN 314764

LINE 1
SECTION 107108
DATE TIME 90128514
STATE/MAN "NV LIN"
TEMP IN "F"
ROD d 6
ROD CM UNIT 8.5
SKY,WIND(†,V) "3.E-1 "
688.703
36834.33930
22715.19950
61994.76118
678.698
38710.35890
25266.22300
64551.77991
707.712
36577.35810
23757.21000
63040.77858
691.699
39065.36520
24041.21610
63317.78339
692.694
35966.33030
24350.21350
63631.75242
690.689
38544.35580
24018.21160
63299.77825
679.676
38116.35120
21878.17890
60363.77400
683.685
39452.36370
21949.18890
61234.78738
682.684
38237.35310
22938.20010
62219.77520
688.689
38745.36000
22149.19310
61431.78024
702.700
39559.36510
21555.18500
60835.78841
690.690
39528.36610
22627.19660
61903.78300
676.676
37834.34780
22878.19890
62148.77114
698.684
36592.34810
23557.21210
62828.75864
683.681
39285.36240
22728.19600
62005.78482
678.674
39841.36710
28788.17690
60866.79120
678.678
41748.38690
28520.17290
59797.81017
668.669
40476.37450
22374.19410
61649.79751
657.658
43188.40150
21878.18190
60355.82459
658.647
36458.34810
26547.24280
65818.75722
Σ10 ***
569.800 ***
566.900 ***
3197.460 ***
3197.500 ***
1.137 ***
15.9874 ***
20 ***

Note: ↓ Reject Blunder!

Form 780513

FORWARD - BACK PAGE ____

FROM BM 4TJS 107 TO BM 5TJS to 108

LEVEL NI002 460673
ROD A KERN 314765
ROD B KERN 314764

LINE 1
SECTION 107108
DATE TIME 91013114
STATE/MAN "HV LIN"
TEMP IN "F"
ROD d
ROD CM UNIT 0.
SKY,WIND(†,V) "100 S"
604.61
33685.311
22278.197
61547.72955
600.607
39185.35910
20541.17180
59817.78462
595.594
33936.31830
22476.19600
61749.73210
583.590
41406.37860
22591.19080
61864.80682
577.585
37188.33590
20554.16810
59025.76458
578.580
39140.35610
21084.17610
60357.78412
573.577
40211.36800
20223.1671
59501.794
577.5
38208.35000
21551.18390
60812.77472
575.580
39812.36680
39737.36480
19955.16690
59223.79010
571.573
39854.35980
21610.18480
60877.78321
570.575
38724.35410
22851.19680
62122.77990
572.575
39614.36510
22020.19000
61289.78885
573.577
39814.35970
22995.20000
62264.78278
569.573
41296.38000
18336.14980
57602.88566
568.571
39405.36500
19377.16270
58641.78668
565.566
38717.35720
20747.17740
60011.77986
560.564
39435.37180
24584.22350
63844.78693
559.561
33615.32581
27861.25851
66315.72871
559.551
38797.38271
30311.29981
69562.78047
"E18" ***
573.000 ***
573.200 ***
3200.200 ***
3200.386 ***
1.14E ***
16.0017 ***

FORWARD - BACK

PAGE ____

FROM BM 5TJS 108 → TO BM 4TJS 107

LEVEL NI082 460673
ROD A KERN 314765
ROD B KERN 314764

LINE 1
SECTION 188107
DATE TIME 90120611
STATE/NAM "NY LIN"
TEMP IN "F"
ROD d 0
ROD CM UNIT 0.5
SKY,WIND(T,V) "0 S1"

560.570
23263.20100
38577.35400
77855.62545
543.556
28557.17510
40796.37590
80074.59837
546.553
18071.15020
39152.36290
78426.57345
547.552
20449.17510
40360.37420
79626.59710
553.552
20703.17840
37397.34380
76672.59974
559.562
23378.20350
39959.37010
79233.62650
557.562
21187.18020
36788.33550
76056.60456
567.570
23290.20390
38599.35690
77875.62561
570.562
23910.21180
40008.37200
79278.63179
555.557
22243.19420
38972.36190
78242.61515
581.571
22680.19810
39199.36300
78474.61954
588.587
23385.20300
39308.36290
78577.62662
568.566
21967.18680
41013.37790
80290.61242
582.589
23556.20510
39555.36530
78828.62829
594.597
24331.21380
38264.35310
77544.63609
582.598
24843.21610
38485.35330
77764.64123
579.574
21029.17890
40089.36790
79366.60381
590.598
22878.19690
39854.35920
78331.62143
578.602
26505.23890
37827.35200
77105.65783
590.612
28992.27980
33880.32790
73136.68251
"Σ10" ***
571.000 ***
570.300 ***
-3200.650 ***
-3200.758 ***
1.141 ***
-16.8035 ***
20 ***

Form 780513

FORWARD - BACK (SPUR #2)

PAGE ____

FROM BM 5 TJS / 108 → TO BM 7 TJS / 109

108189 D223
375.0000 ***
XEQ J
LBL J

LEVEL N1008 468673
ROD A KERN 314765
ROD B KERN 314764

LINE 2
SECTION 108189
DATE TIME 90121012
STATE/MAN "NV LIH"
TEMP IN "F"
ROD d C
ROD CM UNIT 0.5
SKY,WIND(↑,V) "9 S1"

588.593
33729.30828
24960.21890
44221.52995
586.593
35286.32460
28202.25410
47478.54558
600.602
31513.28690
31058.28208
50317.50779
600.612
33473.30510
33132.30320
52485.52743
600.616
33983.31100
31686.28830
50959.53257
598.596
22951.20030
23127.20239
42404.42224
622.631
34843.32010
30569.27700
49844.54117
582.602
29615.26900
32843.30110
52112.48881
596.614
33923.30990
32589.29530
51783.53190

588.612
25355.22350
27459.24600
46735.44630
578.596
36258.33410
22463.19690
41742.55532
592.608
35898.32190
35709.32000
54985.54376
612.610
29191.26500
13263.10590
32537.48466
616.624
34006.31500
32692.30026
51963.53275
602.610
37743.34710
33471.30420
52748.57023
602.630
34857.32590
13749.11510
33817.54126
605.615
49744.47890
13074.11270
32337.69811
618.628
46220.46870
20583.19180
39845.67479
608.625
47476.45310
10828.12860
30094.66739
606.618
48589.39290
18292.16910
37553.59850
602.628
48494.47310
14522.13420
33786.67753
610.628
46385.45200
14819.13710
34079.65564
628.634
45958.44480
12251.10910
31513.65214
629.646
44289.42890
11200.12610
30461.63469

608.626
47147.45790
16649.15350
35910.66404
634.645
48402.46810
14637.12900
33900.67664
626.645
48085.46150
11397.13110
30662.67266
630.668
49323.47486
11190.12940
30465.68597
630.658
49081.47080
11072.12830
30341.68274
630.641
49897.47610
11894.10210
31161.68360
637.647
47822.46170
16263.14450
35519.67079
626.659
47775.45980
15974.14190
35235.67037
626.658
49367.47640
11274.12840
30532.68629
635.652
49092.47520
13004.11640
32265.68265

DECEMBER 10, 1990 @ 9:30
PEG TEST
COU.= -0.01 MM/M

CONT.→

Form 780513

FORWARD - BACK PAGE ____

FROM BM 5TJS TO BM 7TJS

108 → 109

(CONTINUED)

628.644	622.634	
46883.45690	47527.47688	
13172.11958	13166.12588	
32428.66859	32419.66773	
627.648	611.613	
49154.47758	46653.46228	
11234.12468	17281.16749	
38494.68414	36534.65985	
614.626	593.595	
48475.47618	49101.48889	
15681.14848	27563.27188	
34858.67731	46815.68352	
647.660	586.596	
48282.46978	48996.48428	
11214.10858	12497.12889	
38481.67545	31748.68246	
633.632	"Σ18.8" ***	
49589.48298	841.388 ***	
17448.16288	839.188 ***	
36783.68768	11476.988 ***	
632.638	11476.588 ***	
45845.45838	1.688 ***	
12258.11418	57.3837 ***	
31513.65188	48 ***	
619.652		
36493.35168		
11152.12268		
38412.55752		
626.636		
48935.47988		
13422.12458		
32688.68193		
648.658		
46679.45458		
18219.11338		
29479.65938		
631.634		
49736.48918		
19224.18948		
29478.68992		

Form 780513

FORWARD - BACK (GPAR #2) PAGE ____

FROM BM 7TJS 109 TO BM 5TJS 108

EMDIR

109188 D263
107188 D143
198.0000 ***
LEVEL HI002 468673
ROD A KERN 314765
ROD B KERN 314764

LINE 2
SECTION 109188
DATE TIME 9101310:
STATE/MAN *HV LIN*
TEMP IN *F*
ROD d
ROD CM UNIT 0.5
SKY,WIND(t,V) *1 55*
453.446
14639.11510
48224.36940
79470.53886
458.456
13371.12600
48976.48300
88225.52621
446.447
11138.18380
44171.43318
83420.58387
458.464
13325.12780
45895.44500
84344.52575
492.490
11189.10110
49382.48320
88634.50439
466.482
10918.10050
47512.46780
86762.50170
469.485
15981.15130
47512.46800
86763.55270
479.488
13282.12460
48375.47410
87627.52456
498.507
13265.11990
48429.39890
79682.52510

587.501
11874.10390
47454.46190
86787.51126
488.492
10681.11460
42618.41710
81871.49933
514.504
13520.12490
47980.46830
87233.52770
519.534
13491.12200
47842.45720
86298.52747
536.540
12756.11750
45386.44390
84568.52812
544.547
16415.15110
46284.45080
85468.55674
538.562
10288.11780
49886.47580
88263.49545
529.553
14110.12510
41960.48390
81218.53371
544.555
13782.11800
49816.47110
88279.52966
549.577
19138.18180
42585.41410
81843.58393
555.574
15620.14510
41799.48499
81855.54874
538.542
13748.12310
41375.39990
88632.53008
554.556
16544.15210
43567.42180
92824.55800

01-31-91
pegtest @ 16:50
coil = .-002y mm/m
CONT. →

Form 780513

FORWARD - BACK PAGE ____

FROM BM 7TJS 109 -> TO BM 5TJS 108

(CONTINUED)

543.550	588.597
15311.14000	14906.12720
43965.42720	29503.27230
83222.54571	68767.54247
582.594	609.606
15900.14590	32270.29750
41830.40390	38649.36330
81088.55154	77916.71539
572.583	613.624
17500.16240	35581.32690
42026.40720	35524.32600
81283.56763	74790.74860
566.584	616.635
17862.15020	23615.20510
43304.42110	33562.38390
82560.56322	72838.62892
575.600	602.622
16202.15150	29966.26390
45281.44230	43429.39890
84534.55456	82701.69235
585.598	602.610
19509.18320	25390.21610
49307.47950	35189.31610
88565.58765	74470.64675
577.589	612.635
19314.17910	39015.35590
49254.48000	34092.38490
88511.58572	73375.78296
600.616	617.637
13106.12210	31368.27600
40823.39710	26638.22930
80878.52361	65900.70647
616.610	637.656
12725.11500	26920.23890
49456.48300	31552.28500
88712.51979	70838.66201
602.626	616.646
14722.12230	29655.25890
47692.45300	30334.26620
86956.53983	69602.68920
590.597	622.642
13191.11020	29835.25840
40531.39190	30833.26820
79791.52440	69300.68310
600.626	607.632
14765.13400	27819.24600
47087.45500	33542.30360
86344.54024	72822.67097
596.610	597.610
16900.15400	27411.25190
45432.44060	32582.30410
84690.56104	71849.66677
	602.606
	23489.21200
	29836.27530
	69101.62759

590.602	
28971.27450	
30298.28650	
69561.68231	
"Σ10"	***
870.000	***
870.700	***
-11477.020	***
-11476.930	***
1.742	***
-57.3849	***
50	***

FORWARD - BACK PAGE ____

FROM BM STJS TO BM 3JD

108 → 110

LEVEL NI002 460673
ROD A KERN 314765
ROD B KERN 314764

LINE 1
SECTION 108110
DATE TIME 90121313
STATE/MAN "HV LIN"
TEMP IN "F"
ROD d 6
ROD CM UNIT 6.5
SKY,WIND(↑,V) "1 S5"
492.587
36788.33890
22032.19100
61283.75952
487.469
36490.33420
19973.16760
59221.75743
496.503
41614.38410
21527.18490
60785.80872
490.492
41071.37860
20223.17110
59480.80327
484.490
40541.37250
17105.13810
56360.79799
488.484
42888.39410
21996.18680
61251.82135
486.483
40136.36790
19139.15690
58393.79367
491.492
42437.38880
19275.15790
58535.81694
487.486
42687.39310
19844.15660
58293.81938
483.490
43205.39620
19613.16040
58866.82457
485.499
42560.39080
18964.15410
58217.81808
479.482
44008.40580
17833.14400
57084.83256
488.494
42537.39100
21688.18200
60935.81786
488.486
41246.37700
20423.17020
59676.80497
482.485
42391.38710
18480.14690
57728.81644
475.478
42115.38690
17139.13630
56389.81365
475.477
41064.37790
17178.13950
56428.80312
479.483
40469.37890
17316.14710
56568.79718
"ΣI9" ***
590.000 ***
589.780 ***
3952.810 ***
3952.000 ***
1.180 ***
19.7600 ***
18 ***

Form 780513

FORWARD - BACK PAGE ____

FROM BM 3JD TO BM 5TJS

110 → 108

ENDIR

110108 D143
108107 D127
107106 D127
197.0000 ***
XEQ J
LBL J

LEVEL HI002 460673
ROD A KERH 314765
ROD B KERH 314764

LINE 1
SECTION 110108
DATE TIME 90120609
STATE/MAN "NV LIN"
TEMP IN "F"
ROD d 8
ROD CM UNIT 8.5
SKY,WIND(↑,V) "8 S1"
478.492
16412.13290
44579.41370
83841.55675
482.493
19904.16590
43188.39830
82448.59161
493.506
18351.14910
41284.37890
80478.57619
488.500
20460.17220
41444.38200
80715.59730
501.512
20203.16850
41254.37890
80529.59475
497.503
22075.18710
40726.37350
79985.61339
497.500
17282.13900
43157.39700
82419.56462
497.500
18924.15530
42525.39200
81788.58192
496.498
20579.17220
41355.38000
80618.59841
493.500
18945.15520
43695.40190
82961.58206
507.510
18911.15660
40762.37480
80030.58177
501.509
18910.15640
40227.37130
79491.58174
520.527
20367.16920
41503.37940
80772.59639
530.525
16754.13020
42288.38610
81557.56028
547.543
20596.17310
42325.39000
81593.59869
537.538
20719.17490
40798.37550
80072.59988
545.531
23691.20510
40242.37010
79517.62968
532.546
20635.17780
37682.34790
76880.59989
-Σ10 ***
588.100 ***
587.900 ***
-3952.280 ***
-3952.330 ***
1.176 ***
-19.7615 ***
18 ***

12-06-70 @ 8:45 A.M.
PEGTEST
C = -.0037

Form 780513

FORWARD - (BACK) CSPUR #2) PAGE ____

FROM BM 7TJS 109 → TO BM 3JD 1952 110

EMDIR
109110 D263
335.0000 ***
XEQ J
LBL J
LEVEL HI802 468673
ROD A KERN 314765
ROD B KERN 314764

LINE 2
SECTION 109110
DATE TIME 91010812
STATE/MAN "NV LIH"
TEMP IN °F"
ROD 1 0
ROD CM UNIT 0.5
SKY,WIND(T,V) "1 S3"
531.516
33336.38188
48887.44758
87271.72596
588.523
16421.13618
32533.29898
71881.55684
544.535
25728.23128
46483.43698
85758.64984
535.548
38629.27948
46476.43618
85746.69897
534.558
20944.28888
47491.46588
86745.68199
526.541
14476.12828
49872.47458
88328.53734
535.544
18279.16989
49611.48358
88878.57538
548.552
15855.13528
48195.46778
87458.54315
532.545
15864.15128
46136.45258
85391.55117
531.550
18189.17318
41551.48718
88883.57441
541.568
16651.15488
48689.47358
87867.55987
548.535
14752.14888
43428.42738
82681.54886
526.528
13495.12618
44729.43958
83982.52747
536.541
11688.12518
47827.46838
87883.58862
529.527
17294.16578
49317.48688
88568.56548
525.523
11184.10358
43267.42588
82519.58357
548.535
19259.18268
46246.45988
85582.58513
528.529
11882.10138
49819.48778
89873.58257
523.518
13712.12798
49253.48398
88584.52966
541.545
12649.11688
47275.46268
86532.51983
541.533
13915.12988
45838.44988
85882.53178
546.538
13388.12398
44769.43828
84826.52555
537.548
14755.13748
49765.48638
89815.54818

01-09-91
PEGTEST @ 18.30
COLL = -0.02 mm/m
CONT.→

Form 780513

FORWARD - BACK

PAGE ____

FROM BM 7715 109 → TO BM 310 1952 110

(CONTINUED)

519.516
14976.13460
49805.48468
89063.54239
527.532
15763.13858
48569.38608
79830.55821
532.524
12422.14818
37115.34728
76379.51688
536.536
10191.13299
47488.44880
86678.49466
526.525
13378.10490
49938.47258
89208.52645
534.526
19452.16488
48836.45918
88183.58723
529.531
28339.17388
29451.26348
68718.59686
522.524
27368.24298
26486.23418
65679.66637
516.516
42788.48528
14859.11748
53322.82044
417.427
21682.18588
38413.27298
69676.68864
419.427
33538.38118
23986.28398
63244.72789
422.427
39851.34888
33413.36489
72674.78313
426.431
31593.28618
25842.22118
64383.78852

426.431
37086.33828
26898.22928
65352.76351
434.444
37561.34388
23985.28898
63165.76825
444.437
29925.26698
24824.28818
63291.69189
435.448
33283.29888
24798.21248
64653.72467
445.448
33893.38318
25888.22398
65158.73153
463.456
32894.38338
27917.25398
67172.72149
478.463
34158.32898
23558.21318
62815.73483
461.468
38126.28618
17831.16328
57886.69378
"Σ10" ***
868.588 ***
878.188 ***
-7524.338 ***
-7524.438 ***
1.739 ***
-37.6219 ***
44 ***

Form 780513

FORWARD - BACK PAGE ____

FROM BM 3JD 1952 TO BM 6TJS

110 → 111

LEVEL HI002 468673
ROD A KERN 314765
ROD B KERN 314764

LINE 1
SECTION 110111
DATE TIME 91010709
STATE/MRH "MV LIN"
TEMP IN °F"
ROD d 8
ROD CM UNIT" 0.5
SKY,WIND(↑,V) "75 S5"

472.469	459.461
33317.38398	44117.46798
24026.21118	22888.18718
63296.72587	61342.83379
488.474	475.476
39852.35928	41844.38418
28659.17788	17123.13658
59927.78325	56386.81118
469.466	485.479
42751.39598	45123.41768
16673.13488	18238.14888
55945.82818	57498.84389
478.469	477.472
42214.39888	48858.37418
17339.14898	20769.17488
56687.81479	68843.88119
468.466	468.472
41378.38888	41835.38588
19184.15758	16128.12818
58373.88644	55394.81118
474.474	498.482
39447.36218	42684.39988
20248.17828	22851.19438
59511.78716	61389.81945
476.471	482.486
42229.38958	34662.33298
19884.15788	28136.26618
58347.81493	67391.73916
474.475	486.497
43687.40588	33121.32878
20878.16788	25867.24618
59349.82953	65122.72377
467.467	"Σ18" ***
41487.38258	532.788 ***
19131.15958	534.388 ***
58396.88751	3699.868 ***
463.464	3699.728 ***
42778.39498	1.867 ***
15872.12598	18.4998 ***
55139.82836	18 ***

01-07-91
PEG TEST @ 17.25
COLL = -0.0/mm/m

Form 780513

FORWARD - (BACK) PAGE ____

FROM BM 6TJS TO BM 3JD

111 → 110

LEVEL HI002 468673
ROD A KERN 314765
ROD B KERN 314764

LINE 1
SECTION 111110
DATE TIME 98121511
STATE/MAH "MY LIN"
TEMP IN °F"
ROD d 8
ROD CM UNIT 8.5
SKY,WIND(†,V) "1 SE5"
492.496
22735.28050
38388.35670
77552.61989
581.584
17436.14110
41688.38260
80942.56694
495.488
15991.12590
40849.36530
79381.55245
498.498
20959.17600
41781.38380
81830.68286
486.487
16156.12690
45086.41790
84340.55411
487.492
16647.13110
40252.36770
79587.55901
487.489
18818.15320
45458.41320
84711.58070
501.582
17582.14090
43668.40050
82917.56836
508.494
19489.15990
42969.39610
82216.58731
508.498
17106.13610
43162.39650
82417.56357
495.498

18918.15580
42713.39200
81966.58175
482.492
20412.16870
41794.38350
81845.59667
474.476
18961.15410
43717.40300
82978.58213
474.486
17356.13980
45184.41710
84354.56684
502.501
20497.17580
49781.37720
80827.59745
482.583
22949.19410
35452.31890
74788.62196
-218 ***
533.888 ***
533.600 ***
-3699.620 ***
-3699.550 ***
1.867 ***
-18.4979 ***
16 ***

Form 780513

FORWARD - BACK PAGE ____

FROM BM 6TJS TO BM CRATER FLAT AZ. MARK

111 → 112

LEVEL HI002 460673
ROD A KERH 314765
ROD B KERH 314764

LINE 1
SECTION 111112
DATE TIME 91010711
STATE/MRN "HV LIH"
TEMP IN "F"
ROD d 0
ROD CM UNIT 0.5
SKY,WIND(†,V) "100 S5"

483.491	472.473
41445.38380	39155.36820
18885.15720	19143.16000
58158.80713	58408.78420
476.485	464.468
41470.38190	41734.38680
22399.19890	19014.16000
61667.88739	58276.81081
484.492	466.469
36925.34000	37737.34380
18475.15320	20186.16810
57742.76188	59451.77002
473.477	483.486
43581.40010	37519.34520
18862.15390	21102.18280
58134.82851	60362.76788
478.487	482.489
39751.36450	43098.39850
18920.15800	21441.18140
58187.79017	60783.82361
478.473	489.486
44079.40780	39252.36820
17865.13580	19088.16820
55325.83341	58341.78512
466.468	"Σ18" ***
42118.39280	489.980 ***
20053.17280	487.780 ***
59313.81378	3329.438 ***
472.480	3329.580 ***
40829.37830	0.978 ***
20081.17900	16.6473 ***
59334.80089	16 ***
476.484	
39915.36890	
21009.18000	
60274.79176	
477.482	
39809.36710	
19759.16680	
59018.79871	

Form 780513

FORWARD - BACK PAGE ____

FROM BM CRATER FLAT AZ. TO BM 6TJS

112 → 111

112111 D143
111110 D127
108110 D119
285.0000 ***
LEVEL HI002 468673
ROD A KERN 314765
ROD B KERN 314764

LINE 1
SECTION 112111
DATE TIME 9012130S
STATE/MAN "NV LIN"
TEMP IN "F"
ROD d 6
ROD CM UNIT 8.5
SKY,WIND(T,V),"1 SE15"
460.467
13878.10710
38852.35730
78094.53110
462.477
19483.16450
41082.38100
80321.58727
478.492
22429.19620
37315.34580
76558.61674
479.487
21276.18160
37719.34690
76962.60521
482.497
18339.15190
43059.39740
82299.57586
487.484
22198.19000
40985.37890
80235.61449
478.493
21469.18420
39629.36500
78883.60720
459.462
21583.18590
40122.37210
79376.60833
490.493
19147.16090
41388.38230
80558.58399
495.492
20239.17210
42923.40110
82178.59492
486.498
20632.17810
41865.39110
81120.59885
486.467
20444.17410
40724.37600
79976.59696
487.473
21793.18810
41258.38190
80588.61043
486.485
18635.15500
42349.39190
81604.57885
490.497
18911.15990
40276.37200
79529.58164
490.501
23236.20630
32870.29360
71329.62542
505.499
27461.26260
31523.30340
70773.66710
484.493
26438.24650
37534.35900
76786.65680
Σ10 ***
500.600 ***
499.500 ***
-3329.510 ***
-3329.650 ***
1.000 ***
-16.6479 ***
18 ***

12-13-90 @ 8:30A.M.
PEGTEST
COLL = +0.01 m/m

Form 780513

FORWARD - BACK PAGE ____

FROM BM CRATER FLAT AZ. MARK TO BM 9715

112 → 113

LEVEL HI002 468673
ROD A KERN 314765
ROD B KERN 314764

LINE 1
SECTION 112113
DATE TIME 91010713
STATE/MAN "NV LIN"
TEMP IN "F"
ROD d 0
ROD CM UNIT 0.5
SKY,WIND(↑,V) "75 S5"
476.478
19259.17810
26566.24290
65838.58524
495.589
33887.29620
35438.32890
74681.72257
486.492
40913.38590
22256.19910
61515.88170
488.486
32131.28410
37357.33610
75635.71404
484.486
27483.23930
29854.26210
69123.66669
482.489
26687.23110
37879.33450
76346.65953
483.488
35866.31690
35239.31820
74510.74341
478.483
26418.23800
38688.35190
77873.65579
488.488
21805.17610
36193.32810
75459.68272
482.487
31837.28780
48279.37810
79544.70302

492.486
11458.18170
49974.48720
89227.58713
501.500
13374.12830
41946.48610
81282.52630
496.494
21465.17910
38128.34690
77399.68738
488.492
26312.22790
44559.41080
83826.65582
482.483
29483.26150
42254.38920
81515.68749
492.482
25946.23610
10415.12530
49673.65287
490.492
42825.42150
12635.11810
51886.82073
490.490
48243.47190
17515.16480
56769.87499
472.474
43916.41560
31646.29280
78988.83175
484.498
38424.35960
10933.13480
58196.77684
"Σ10" ***
524.188 ***
525.388 ***
-444.948 ***
-444.960 ***
1.849 ***
-2.2248 ***
28 ***

Form 780513

FORWARD - (BACK) PAGE ____

FROM BM 8TJ5 TO BM CRATER FLAT Az. MARK

113 → 112

LEVEL NI002 460673
ROD A KERN 314765
ROD B KERN 314764

LINE 1
SECTION 113112
DATE TIME 91010915
STATE/MAN "MY LIN"
TEMP IN °F"
ROD d 0
ROD CM UNIT 0.5
SKY,WIND(†,V) "1 S5"
486.490
10476.14520
30481.26380
69754.49744
492.487
13910.13320
42289.41520
81541.53163
474.480
16312.15320
47088.46120
86263.55566
474.478
14873.14130
43564.42770
82817.54125
485.484
20855.16500
18904.15600
58176.59327
490.483
30710.27420
17078.13610
56353.69982
484.484
34431.31200
22382.19130
61658.73697
492.494
34633.31990
18735.15990
58881.73982
488.481
49879.48420
12741.11310
51997.89135
477.478
48235.47110
17515.16480
56768.87488
489.483
34469.31020
27300.24010
66567.73735
476.483
40963.37610
24005.20700
63270.88230
477.480
36638.33300
26503.23890
65764.75899
475.476
26751.23210
23384.19720
62651.66815
476.474
31239.27910
28233.25000
67585.78512
478.476
32519.29000
25133.21600
64488.71798
484.474
33651.30000
48189.36510
79462.72922
474.470
23387.21590
36695.34830
75958.62570
484.471
36416.34480
28496.26390
67760.75682
469.467
30686.27690
25009.22850
64281.69958
"Σ18" ***
518.000 ***
519.700 ***
445.890 ***
445.840 ***
1.830 ***
2.2253 ***
20 ***

Form 780513

FORWARD - BACK PAGE ____

FROM BM 8TJS TO BM 9TJS

113 → 114

LEVEL NI002 460673.
ROD A KERN 314765
ROD B KERN 314764

LINE 1
SECTION 113114
DATE TIME 91010715
STATE/MRN "MV LIH"
TEMP IN "F"
ROD d 0
ROD CM UNIT 0.5
SKY,WIND(†,V) "75 S5"

486.484
11172.14060
46762.43630
86825.58434
489.492
38883.27610
37638.34480
76982.78868
484.485
38266.26980
34766.31480
74839.69535
492.486
28578.17990
48971.46430
88229.59834
492.490
11265.13150
45864.43750
85124.58523
494.492
39171.37830
18811.12090
58864.78426
482.478
31774.28290
42884.39290
82073.71841
482.451
42452.39390
32064.79180
71325.01716
483.479
24412.21980
34247.31880
73588.63676
482.476
49512.48830
16294.14750
55550.88766

477.475
29892.26110
32289.23480
71561.69161
479.478
33257.29690
38217.26680
69482.72519
478.474
22992.19380
27980.24480
67242.62253
478.475
25781.22820
36084.32410
75269.64962
478.472
26892.23230
27882.24100
67148.66155
478.474
15675.11840
27289.23470
66478.54943
478.478
36293.32478
33419.29690
72687.75561
488.477
19937.15810
43985.39810
83171.59287
472.478
37677.33890
37982.34150
77164.76939
478.468
27544.26670
26160.25210
65414.66798
474.477
30128.26930
24256.21830
63527.69484
488.481
29458.26260
46128.42890
85397.68730
503.490
12820.17610
28794.15810
68083.52109
494.501
31487.29380
37281.35250
76545.78674

"818" ***
728.000 ***
728.260 ***
-1385.690 ***
-1385.738 ***
1.456 ***
-6.5286 ***
24 ***

Form 780513

FORWARD - (BACK) PAGE ____

FROM BM 97JS TO BM 87JS

114 → 113

LEVEL NI002 468673
ROD A KERN 314765
ROD B KERN 314764

LINE 1
SECTION 114113
DATE TIME 91010913
STATE/MAN "STATE,"
TEMP IN °F"
ROD d 0
ROD CM UNIT 0.5
SKY,WIND(t,V) "1 S5"
491.494
36632.33518
43608.40310
82876.75398
489.487
34407.31910
34755.32180
74817.73674
476.479
26275.24690
14179.12700
53437.65530
488.498
48589.46860
23184.21520
62442.87848
481.480
26983.23800
37855.34760
77123.66250
492.489
32898.28760
21518.18110
60781.71356
485.486
19674.16410
17463.14360
56725.58939
473.472
32915.29720
18748.15570
58083.72180
497.479
34889.31746
32681.29590
71942.74152
490.481
18687.15190
21046.17500
68383.57947

489.488
39958.36580
35272.31730
74533.79224
492.485
37161.33780
25465.22100
64724.76424
488.480
33173.29720
31387.27910
70650.72441
480.478
36911.33530
28815.25570
(3888.76172
478.489
26956.23490
30883.26530
69352.66220
474.476
35148.32590
36178.33610
75439.74484
475.477
14822.13380
48864.46510
87328.54676
476.478
41937.39890
31430.28510
78687.81197
488.479
31538.28890
41275.37710
88537.78795
492.489
47133.42680
46861.42190
86135.86410
473.479
49235.46930
18586.12620
49845.88496
488.488
38678.35710
25329.22260
64595.77933
482.473
35879.31580
18889.15410
58148.74342

585.514
34576.32260
27879.25690
67138.73838
498.491
34642.33650
26216.25210
65468.73896
498.496
35618.34880
24373.23660
63624.74871
"Σ10" ***
720.100 ***
720.200 ***
1385.510 ***
1385.890 ***
1.440 ***
6.5285 ***
26 ***

Form 780513

FORWARD - BACK (SPUR #2) PAGE ____

FROM BM 9TJS TO BM 10TJS

114 → 115

EMDIR
114115 D143
115116 D263
198 ***

SN
LEVEL NI002 460673
ROD A KERN 314765
ROD B KERN 314764

LINE 2
SECTION 114115
DATE TIME 91011009
STATE/MAN "MV LIN"
TEMP IN °F"
ROD d 0
ROD CM UNIT 0.0
SKY,WIND(†,V) "3.E-1 "
429.439
42994.39698
17274.14110
56554.82275
433.436
38188.35358
22158.19198
61429.77468
460.452
39121.35960
28161.17090
59442.78397
448.444
41893.38690
28223.17100
59580.81167
428.437
39477.36100
22279.18800
61558.78752
424.432
42845.38810
13854.16250
52332.81320
438.451
41774.38400
17192.13790
56468.81052
438.446
41166.37980
28978.17750
68256.88444
436.445
44019.40790
27338.24100
66614.83300
447.465
43867.40210
31471.27750
70755.83154
449.475
40953.37310
25397.21790
64674.88229
446.451
38743.35520
27762.24610
67843.78825
467.484
37987.34980
24941.21800
64216.77181
483.497
26443.24090
28738.18490
59999.65714
481.485
48941.46660
11453.13610
58721.88210
486.516
48812.47580
11153.12280
58412.88070
484.518
47379.46550
14688.13840
53864.86632
478.507
47883.46800
11308.10240
58566.87138
"Σ18" ***
492.700 ***
491.100 ***
3921.250 ***
3921.170 ***
0.984 ***
19.6861 ***
18 ***

01-10-91
PEG TEST @ 16:43
COLL = -0.02 mm/m

Form 780513

FORWARD - BACK (SPUR #2) PAGE ____

FROM BM 10TJS 115 TO BM 9TJS to 114

EMDIR
115114 D143
118119 D103
119120 D119
229 ***

XEQ J
LBL J

LEVEL NI002 468673
ROD A KERN 314765
ROD B KERN 314764

LINE 2
SECTION 115114
DATE TIME 91013009
STATE/MAH "HV LIN"
TEMP IN °F"
ROD d 0
ROD CM UNIT 0.5
SKY,WIND(t,V) "0 S5"
468.454
14676.13690
43007.41990
82255.53924
447.466
12123.10720
47298.45710
86546.51373
439.464
16170.14980
49770.48510
89816.55421
453.463
15716.14390
40462.39220
79712.54962
448.480
16712.15140
40194.39730
79444.55960
466.508
26503.24210
27635.25390
63877.65751

464.50
17145.13450
37326.33800
76574.56391
474.489
25794.22790
31846.28720
71897.65848
495.526
21259.18110
40482.37450
79657.68515
482.496
32781.29720
48341.37200
79598.72832
468.480
28879.23910
45874.41080
84326.67336
477.478
18583.15210
41317.38800
80577.57844
486.493
17229.13690
44272.40690
83544.56498
478.480
13820.10310
43878.40380
83140.53880
488.494
18461.14730
38416.34610
77679.57726
503.500
17375.13710
42554.38916
81828.56642
503.587
28206.16320
39788.35810
79861.59476
522.492
12453.16210
47424.39450
82694.51719

585.000 ***
586.600 ***
-3921.890 ***
-3921.870 ***
1.812 ***
-19.6854 ***
18 ***

01-30-91 @ 17:02
PEGTEST
COLL = -.00141 mm/m

Form 780513

FORWARD - BACK

PAGE ____

FROM BM 9 TJS 114 TO BM 11 TJS to 116

LEVEL HI002 460673
ROD A KERN 314765
ROD B KERN 314764

LINE 1
SECTION 114116
DATE TIME 91011811
STATE/MAN "MV LIN"
TEMP IN "F"
ROD d 0
ROD CM UNIT 0.5
SKY,WIND(↑,V) "0 S5"

538.545
36011.32580
29665.26850
68925.75269
568.563
23829.28580
39387.35930
78562.63889
569.551
19356.15940
36493.33110
75749.58616
578.562
22124.18710
37121.33780
76380.61380
535.551
19560.15990
40863.37250
80122.58819
564.568
18282.14780
40858.37390
80124.57547
571.567
21246.17910
38494.35210
77760.68508
591.576
23612.28250
35567.32090
74835.62880
579.570
16683.13810
36807.33360
76080.55875
682.578
22002.18550
41882.38300
81847.61252
552.553
24066.28720
40691.37250
79958.63335
562.565
23354.19960
32827.29320
72888.62620
558.569
27526.23810
35136.31400
74486.66800
600.595
37341.34890
28399.25870
67666.76610
585.594
36911.33510
22894.18780
61353.76173
554.574
39712.36350
22978.19640
62239.78977
545.544
27941.24190
27877.23990
67141.67281
554.568
24402.20980
27399.23890
66660.63660
614.612
24861.22580
28429.18210
59693.64121
566.587
33924.31880
38282.28250
69542.73179
"Σ10" ***
658.700 ***
657.900 ***
-1424.180 ***
-1424.190 ***
1.317 ***
-7.1209 ***
20 ***

Form 780513

FORWARD - (BACK)

PAGE ____

FROM BM 11TJS TO BM 9TJS

116 → 114

```
                    ENDIR
116114  D143
114113  D167
113112  D143
        141.0000    ***
                    XEQ J
                    LBL J

LEVEL NI002  460673
ROD A KERH  314765
ROD B KERH  314764

LINE   1
  SECTION   116114
    DATE TIME  91010910
     STATE/MAN "NV LIN"
       TEMP IN     "F"
           ROD d   0
     ROD CM UNIT   0.5
  SKY,WIND(T,V) "75 S3"
              466.467
          31499.28200
          39889.35710
          78347.78760
              468.462
          31583.28110
          28435.25110
          67695.78842
              452.461
          34372.38800
          38268.34730
          77528.73629
              468.464
          33158.29480
          48313.36780
          79579.72421
              456.454
          28689.17130
          36274.32790
          75538.59950
              453.461
          22414.13630
          33953.38010
          73215.61681
              466.462
          30178.26410
          26485.22610
          65747.69429
              463.468
          32898.29110
          23796.28180
          63855.72151
              478.472
          48494.36900
          23369.19850
          62632.79758
              479.481
          42368.38910
          22381.18890
          61564.81636
              479.482
          37688.33810
          16183.12220
          57446.16871
              478.474
          35368.31790
          23272.19780
          62531.74619
              472.476
          39565.36140
          20466.16890
          59727.78830
              482.483
          41474.38000
          19494.16890
          58753.88731
              480.485
          40279.36820
          19917.16550
          59179.79542
              464.470
          37933.34290
          22328.18710
          61574.77198
              473.485
          38392.34900
          18262.14610
          57524.77649
              482.472
          28162.26370
          22557.28950
          61812.67416
              478.481
          29953.28180
          28648.26690
          67983.69284
              479.496
          27532.25120
          30875.27730
          69330.66790

                                    "ΣIO"    ***
                                  655.000    ***
                                  655.000    ***
                                 1424.180    ***
                                 1424.200    ***
                                    1.310    ***
                                   7.1210    ***
                                       20    ***
```

01-07-91
PEC TEST @ 8:40
COLL=-0.01 mm/m

Form 780513

FORWARD - (BACK) (SPUR M2) PAGE ____

FROM BM 10 TJS TO BM 11 TJS

115 To 116

115116 B183
415.0000 ***

LEVEL HI002 468673
ROD A KERN 314765
ROD B KERN 314764

LINE 2
SECTION 115116
DATE TIME 91011011
STATE/MAN "NV LIN"
TEMP IN "F"
ROD J 0
ROD CM UNIT 0.5
SXY,WIKB(T,V) "3.E-1 "
490.589
11147.18848
44987.43958
64243.38407
512.528
15820.14288
43369.42558
62624.34277
487.588
18565.17698
44547.43588
63882.37828
486.582
14842.13828
44841.42998
63299.34897
491.498
12985.11348
40670.39158
59929.32247
482.495
14399.12848
42916.40488
62182.33669
496.587
19949.17358
43442.41188
62718.39228
542.532
19888.16958
44316.41488
63586.39875
523.532
17184.14588
47371.44618
66645.36382
550.553
19913.16638
44117.40658
63390.39181
548.543
14149.18978
49514.46298
68787.33419
541.524
19838.16598
40014.36918
59292.39128
553.536
17394.14248
35859.32848
54338.36672
534.555
22635.28898
47553.44898
66827.41987
550.569
22962.28228
40084.37488
59353.42235
544.547
25390.22698
28642.25928
47918.44663
542.548
18775.15598
39919.36788
59286.38862
512.536
14863.11698
38553.35338
57836.34142
567.588
21393.19288
33887.31918
53154.48668
551.576
28845.27978
32915.32898
52171.48899
550.551
23766.21358
36512.34838
55783.43836
544.558
25497.22858
39178.35698
58457.44781
558.568
27544.24628
33498.38598
52775.46821
555.579
23195.19838
31499.28228
50782.42474
555.562
38299.27898
37768.34488
57852.49583
558.568
28135.25888
38415.27218
49695.47412
543.562
31733.28838
38886.28818
58168.51811
541.556
28919.26828
31298.28498
50578.48198
548.556
26824.23898
29478.26488
48752.46899
560.568
25893.23138
31078.28388
50357.45167
543.548
21435.18838
34232.30788
53518.48719
544.556
28188.25888
34128.31798
53481.47456
"Σ18" ***
880.288 ***
883.888 ***
-5344.988 ***
-5344.918 ***
1.683 ***
-26.7245 ***
32 ***

Form 780513

FORWARD BACK PAGE ____

FROM BM 1+TJS TO BM ~~B TJS~~ M

116 to 117

LEVEL NI002 468673
ROD A KERN 314765
ROD B KERN 314764

LINE 1
SECTION 116117
DATE TIME 91012509
STATE/MAN "NV LIN"
TEMP IN "NV"
ROD d 0
ROD CM UNIT 0.5
SKY,WIND(t,V) "0 S2"
508.512
44629.41698
17923.14940
37179.63887
496.506
39838.35798
15743.12618
35807.58381
511.507
36551.33488
27898.24618
47153.55817
518.498
37511.34288
22954.19718
42221.56776
522.512
37624.34328
31917.28698
51185.56887
517.519
25428.23348
48657.46518
67916.44685
531.516
46188.44618
13996.12298
33255.65356
534.517
25126.21798
35986.32648
55179.44394
536.526
32933.29528
36388.33118
55661.52211
526.516
35358.31638
31924.28888
51282.54626
526.518
39385.35318
33525.29518
52887.58589
528.525
23632.28328
45567.42898
64838.42898
512.522
45968.43798
24778.22798
44832.65233
526.528
34391.31528
44799.42898
64865.53668
548.535
34393.31888
37297.33778
56566.53668
542.532
26999.24198
38465.27538
49732.46264
563.562
38181.27428
32468.29878
51732.49368
538.553
32685.31498
38748.29718
50884.51868
"818" ***
515.168 ***
513.588 ***
647.478 ***
647.388 ***
1.829 ***
3.2371 ***
18 ***

01-25-91 @ 0910
Peg Test
Coll = -0.01 mm/m

Form 780513

FORWARD - (PACK) PAGE ____

FROM BM 12TJS TO BM 11TJS

117 to 116

```
                    ENDIR
117116 ,D119
114116 ,D143
        334.0000    ***



                    XEQ J
                    LBL J
LEVEL NI002  468673
ROD A KERN  314765
ROD B KERN  314764

LINE  1
 SECTION  117116
   DATE TIME  91011889
    STATE/MAN "MV LIN"
      TEMP IN     "F"
             ROD d   0
    POD CM UNIT   8.5
  SKY,WIND(↑,V) "8 S3"
            483.487
          28099.24748
          19799.16418
          59862.67367
            478.494
          36787.33998
          24925.22118
          64191.76853
            492.494
          38738.25418
          26664.23228
          65935.78888
            504.511
          24226.28788
          29695.26148
          68968.63488
            525.528
          10947.14298
          35888.32588
          75855.58282
            544.534
          43734.48118
          26451.22818
          65695.82975
            558.538
          25843.21498
          33376.29818
          72627.64294
            554.536
          29295.25788
          29011.25578
          68264.68545
            516.541
          30783.27428
          28712.25518
          67962.78834
            541.532
          37692.34188
          36638.33188
          75897.76958
            551.548
          21831.17258
          23123.19498
          62375.68279
            514.519
          34118.38588
          41888.38258
          81059.73361
            552.555
          16867.12328
          45199.41318
          64454.55326
            548.553
          18411.15888
          35411.31988
          74667.57666
            535.535
          27648.26238
          32386.38958
          71559.66982
            552.554
          21778.19798
          48168.38298
          79412.61828
        "Σ18"    ***
      518.888    ***
      589.588    ***
     -646.978    ***
     -647.848    ***
        1.828    ***
       -3.2358   ***
           16    ***
```

01-18-91

PEG TEST @ 16:00

Coll. = -0.02 m/m

Form 780513

FORWARD - BACK PAGE ____

FROM BM 12 TJS 117 TO BM 13 TJS 118

```
                    ENDIR
117118  D127
116117  D143
              326  ***
                   XEQ J

                 486+LBL J
                    FC? 87
                    FIX 8
                "PRINT SEC ?"
                   PROMPT
PRINT SEC ?
LEVEL NI002  468673
ROD A KERH  314765
ROD B KERH  314764

LINE   1
  SECTION   117118
    DATE TIME  91812512
     STATE/MAN "HV LIN"
       TEMP IN    "F"
          ROD d   0
     ROD CM UNIT  0.5
 SKY,WIND(t,V) "3.E-1 "
             552.572
          30698.27100
          24785.21200
          64055.69963
             556.555
          32646.29300
          28871.24610
          67348.71920
             566.537
          36475.32910
          20155.16410
          59438.75754
             548.550
          23753.21090
          48138.45510
          87411.63021
             560.552
          31688.28480
          28861.25810
          68124.70954
             575.566
          38148.35870
          16115.14010
          55384.77484
             588.571
          38855.35690
          18685.13810
          49870.78125
             587.588
          49232.46230
          12369.15280
          51635.88500
             587.583
          37777.34610
          22899.19880
          62173.77849
             590.585
          49324.46680
          12942.18100
          52213.88590
             570.565
          49857.45700
          15812.12510
          55887.88333
             576.574
          41617.38290
          29322.25990
          68682.80893
             579.578
          29882.25480
          11207.14590
          58485.68279
             586.586
          46685.43590
          13395.18250
          52668.85957
             562.552
          48766.45680
          13587.18430
          52775.88836
             568.555
          43435.41880
          18483.16170
          57749.82786
             586.578
          42674.48190
          18641.16110
          57910.81947
             570.568
          43688.41210
          14739.12310
          54885.82942
        "Σ10"  ***
       534.000  ***
       533.000  ***
      3534.500  ***
      3534.410  ***
         1.867  ***
       17.6723  ***
            18  ***
```

Form 780513

FORWARD - BACK

PAGE ____

FROM BM 13TJS 118 TO BM 12TJS 117

01-24-91
peg rest @ 1640
coll. = +0.01

Form 780513

FORWARD - BACK PAGE ____

FROM BM 13TJS 118 TO BM 14TJS 119

LEVEL Hi... 468673
ROD A KERN 314765
ROD B KERN 314764

LINE 1
SECTION 118119
DATE TIME 91013012
STATE/MAN "NV LIN"
TEMP IN "F"
ROD d 0
ROD CM UNIT 8.5
SKY.WIND(t,V) "3.E-1 "
558.561
23243.20890
38094.34790
77367.62514
524.535
36984.33630
34984.31630
74184.76268
542.553
25215.22950
21594.19310
60861.64484
561.553
43551.40490
11918.14720
51183.8281
548.5
43937.415
17475.158
56747.832
552.5
43345.48
15057.12
54326.82
545.
43828.48
18766.18
58835.82280
564.556
46565.43680
18359.13280
49671.85840

[illegible]
12183.14598
51450.89282
568.560
42633.39990
29911.27280
69182.81986
527.545
46868.44630
15070.12960
54335.86126
518.537
40591.39860
21795.28110
61856.79847
"E18" ***
384.400 ***
385.800 ***
2388.29E ***
2388.33E ***
8.618 ***
9416 ***
12 ***

FORWARD - (BACK)

PAGE ____

FROM BM 14 TJS 119 TO BM 13 TJS 118

LEVEL [illegible]
ROD A KERN [illegible]
ROD B KERN [illegible]

LINE [illegible]
SECTION [illegible]
DATE TIME [illegible]
STATE/RAIN [illegible]
[illegible]
ROD d 0
ROD CM UNIT 0.5
SKY,WIND(1,V) 0 S5
578.586
12647.15113
43911.46883
89989.51517
552.574
10743.13178
43534.47732
88982.54015
550.535
10363.10870
43795.45150
89978.61654
550.586
10374.13413
43573.47849
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

[illegible]
33863.38620
73177.35638
386.6[illegible]
[illegible]
[illegible]
[illegible]
562.514
38745.27989
78532.27424
[illegible]
-210* ***
295.540 ***
297.643 ***
-2333.130 ***
-2333.113 ***
0.393 ***
-11.9497 ***
10 ***

Form 780513

FORWARD - BACK PAGE ____

FROM BM 14TJS TO BM 15TJS

119 to 120

```
LEVEL N1002  468673
ROD A KERN  314765
ROD B KERN  314764

LINE   1
  SECTION   119120
     DATE TIME  91013014
      STATE/MAN "MY LIN"
        TEMP IN     "F"
              ROD d   0
       ROD CM UNIT   8.5
  SKY,WIND(T,V)  "3.E-1"
               545.552
          43150.48700
          15402.13010
          54668.82413
               538.558
          46590.43690
          26264.23390
          65537.85864
               536.558
          48185.45290
          11456.14290
          58725.87377
               537.532
          48853.47000
          13772.11890
          53835.88114
               537.552
          49888.47810
          14562.12430
          53823.89070
               543.535
          47721.45280
          10148.12420
          49113.86984
               562.558
          44138.41580
          10548.17100
```

```
          49883.46980
          11427.14180
          50693.89869
               537.542
          48661.46490
          12138.18110
          51391.87927
               540.532
          43334.41490
          15863.14110
          55125.82595
               541.548
          39115.38180
          23371.22300
          62626.78370
               551.552
          34783.34110
          27623.27100
          66877.74012
          218*    ***
       250.100    ***
       249.500    ***
      3514.700    ***
      3514.670    ***
         .500    ***
           '4    ***
           12    ***
```

FORWARD - BACK PAGE ____

FROM BM 15TJS 120 TO BM 14TJS to 119

LEVEL N:[illegible] 468673
ROD A KERN 314765
ROD B KERN 314764

LINE 1
SECTION 28119
DATE TIME 81812414
STATE/HOT HWY LIN
TEMP IN °F
ROD d 9
ROD CM UNIT A.5
SKY,WIND(T,V) °0 S5°
578.532
16576.13209
49-11.47209
63963.49839
587.577
13093.10549
49424.47639
68632.52771
579.537
11032.13773
43859.46993
99130.59345
371.597
14582.12399
46442.44150
63798.53944
576.579
13136.16173
43781.47619
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]
[illegible]

38165.28119
63425.58227
568.568
.3370.14219
44493.49909
63772.58143
565.565
16915.15009
41979.39819
61242.56173
556.564
18792.17433
44169.37419
[illegible]
562.577
[illegible]
[illegible]
[illegible]
216° ***
257.[illegible] ***
263.399 ***
-3514.6[illegible] ***
-3514.493 ***
0.537 ***
-17.[illegible] ***

Form 780513

FORWARD - BACK PAGE ____

FROM BM 15TJS 120 TO BM 16TJS 121

```
                    ENDIR
 120121  D103
 121122  D103
 122123  D103
 123124  D103
         188.0000    ***


LEVEL HI082  460673
ROD A KERH  314765
ROD B KERH  314764

LINE    1
 SECTION    120121
    DATE TIME  91020508
   STATE/MAH "MV LIH"
     TEMP IH     "F"
             ROD d   0
      ROD CM UNIT   0.5
 SKY,WIND(T,V) "1 S2"
            546.552
          44676.42588
          19268.17110
          58514.83925
            525.531
          19644.16300
          27917.24710
          67173.58896
            538.534
          48411.47210
          18097.11130
          47347.87661
            534.544
          47375.45980
          14958.13510
          54211.86626
            538.552
          47858.45290
          16681.14730
          55851.86304
            578.596
          42938.46036
          18664.12520
          49915.82177
            582.608
          48692.46288
          15494.13810
          54751.87951
            594.618
          47848.45280
          18854.13500
          58185.87182
            604.628
          46287.44100
          17887.15000
          56339.85541
            595.626
          48142.38810
          19434.17990
          58686.79395
            580.579
          39888.38520
          21919.20680
          61178.79130
            592.608
          37163.36200
          25351.24420
          64602.76415
         "218"    ***
        221.000    ***
        221.900    ***
       3004.620    ***
       3004.590    ***
          8.443    ***
         15.8230    ***
             12    ***
```

02-05-91
PEGTEST @ 16:00
COLL = -.00175 mm/m

Form 780513

FORWARD - BACK PAGE ____

FROM BM 16 TJS TO BM 15 TJS

121 to 120

```
121120  0:23
118119  1967
                  485   ***
LEVEL N1002  488878
ROD A KERN   714765
ROD B KERN   714764

LINE   1
 SECTION    111120
    DATE TIME  91012905
     STATE/MAN "HV LIN"
       TEMP IN     °F"
              ROD S   ?
      ROD C" UNIT   .5
   SKY         .°0 ER"
             385.389
          -1173.11790
          46040.45580
          87290.53525
             374.394
          16765.13130
          49488.46758
          88663.49816
             360.384
          10020.12850
          49588.46800
          89755.49269
             364.362
          14819.12630
          49866.46880
          89381.54055
             352.3**
          11213.13870
          49887.45329
          [illegible]49.30455
             367.399
```

```
11597.13290
45496.43653
84742.5084?
   371.3**
-387.10732
22533.2489.
67774.5363(
   380.40?
23285.21100
44976.42869
84225.62458
   371.396
33683.22546
38957.35700
76285.629??
 °218°   ***
234.628   ***
234.582   ***
-3004.618   ***
-3204.558   ***
  0.469   ***
-15.0234   ***
```

01-29-91 @ 16:56

PEG TEST
CoLL = -.00362 mm/m

FORWARD - BACK PAGE ____

FROM BM 16TJS 121 TO BM 17TJS to 122

LEVEL HI002 460673
ROD A KERH 314765
ROD B KERH 314764

LINE 1
SECTION 121122
DATE TIME 91020509
STATE/MAH "NV LIH"
TEMP IN "F"
ROD d 0
ROD CM UNIT 0.5
SKY,WIND(†,V) "1 W3"

616.626		
47290.44790		
21382.18710		
60639.86547		
618.634		
39480.36600		
18695.15820		
57955.78740		
626.642		
46141.43800		
15527.13400		
54781.85396		
622.632		
48955.46470	686.596	
16493.14800	48636.47590	
55751.88216	13718.12770	
628.638	52970.87890	
48843.46120	598.595	
11874.14600	48418.46690	
51137.88104	18257.16480	
635.646	57512.87671	
48322.45890	577.594	
14865.11550	35978.34940	
53327.87581	24772.23850	
628.645	64824.75234	
48387.45620	"Σ18"	***
13759.11200	267.700	***
53021.87651	267.600	***
618.632	3332.338	***
47735.45290	3332.338	***
12627.10030	0.535	***
51887.86991	16.6617	***
614.625	12	***
43975.40930		
37758.34630		
77017.83233		

Form 780513

FORWARD - (BACK) PAGE ____

FROM BM 17TJS TO BM 16TJS
122 to 121

```
                EMDIR
122121  D183
123122  D183
124123  D183
125124  D183
        180.0000    ***


LEVEL N1002  460673
ROD A KERN  314765
ROD B KERN  314764

LINE    1
  SECTION    122121
     DATE TIME  91020408
      STATE/MAH "NV LIN"
        TEMP IN     "F"
             ROD d   0
       ROD CM UNIT   0.5
  SKY,WIND(t,V) "0 N10"
             530.537
          17895.15840
          40081.38890
          79340.57151
             524.518
          21417.18690
          45811.42890
          85069.60674
             552.543
          18093.14410
          48981.45500
          88239.57354
             540.560
          11030.13820
          49733.47000
          88999.58299
             562.574
          13918.11590
          46213.43710
          85470.53177
             538.562
          12845.18150
          49245.46580
          88507.52188
             566.577
          10826.13650
          49374.46490
          88637.58892
```

```
             524.551
          14625.11990
          47157.44520
          86419.53882
             522.541
          11596.14200
          47927.45110
          87189.50861
             533.560
          20002.18420
          42014.40390
          81270.59258
             539.563
          33633.32120
          36812.35380
          76069.72089
             542.559
          23057.21830
          38858.37690
          78113.62313
        "Σ10"    ***
      284.300    ***
      283.500    ***
    -3332.690    ***
    -3332.640    ***
        0.568    ***
    -16.6633    ***
           12    ***
```

02-04-91
Pretest @ 15:50
coll = -.0027 mm/m

Form 780513

FORWARD - BACK PAGE ____

FROM BM 17 TJS 122 TO BM 18 TJS to 123

LEVEL NI002 460673
ROD A KERH 314765
ROD B KERH 314764

LINE 1
SECTION 122123
DATE TIME 91020518
STATE/MAN "NV LIN"
TEMP IN °F"
ROD d 0
ROD CM UNIT 0.5
SKY,WIND(†,V) "2.E-1 "
583.597
46892.44090
11794.14390
51058.86153
594.612
44487.41490
11418.14460
50681.83752
642.672
48462.46050
10696.12820
49956.87719
632.659
49859.47380
11806.14220
51869.89125
630.667
45674.43390
12007.14200
51272.84935
612.638
48036.45310
10826.13510
50888.87298
616.632
45978.43840
14270.12190
53534.85239
660.688
42514.39800
11466.14200
50734.81780
656.678
42198.39450
19767.17030
59030.81456

664.668
48538.37780
29513.26770
68776.79806
656.672
38976.36950
11898.12780
50356.78238
653.666
39984.39000
20773.19600
60027.79242
"Σ18" ***
-282.780 ***
283.980 ***
-3581.480 ***
3581.620 ***
0.567 ***
17.9878 ***
12 ***

Form 780513

FORWARD - (BACK)

PAGE ____

FROM BM 18 TJS 123 TO BM 17 TJS 122

LEVEL HI002 460673
ROD A KERN 314765
ROD B KERN 314764

LINE 1
SECTION 123122
DATE TIME 91020409
STATE/MAN "NV LIH"
TEMP IN °F"
ROD d 0
ROD CM UNIT 0.5
SKY,WIND(↑,V) "0 H5"

573.592		587.626	
12486.10000		12264.10280	
49496.46910		48687.46680	
88760.51749		87949.51522	
578.604		595.628	
26333.23790		15204.13980	
47035.44410		45168.43780	
86300.65600		84427.54463	
588.604		593.632	
25912.22700		31366.29320	
44793.41520		46252.44250	
84063.65179		85516.70628	
583.604		600.632	
10883.13840		18489.16880	
46649.43740		37998.36210	
85910.58149		77256.57751	
596.634		"Σ10"	***
11839.14190		276.900	***
49194.46780		280.400	***
88461.51103		-3581.720	***
588.614		-3581.690	***
13989.11290		0.557	***
49019.46300		-17.9885	***
88285.53250		12	***
587.620			
11218.13610			
47751.45190			
87818.58483			
598.624			
12582.10000			
48615.46090			
87876.51767			

Form 780513

FORWARD - BACK PAGE ____

FROM BM 19TJS 123 TO BM 19TJS to 124

LEVEL NI002 458673
ROD A KERN 314765
ROD B KERN 314764

LINE 1
SECTION 123124
DATE TIME 91828512
STATE/MSN "MV LIN"
TEMP IN °F"
ROD d 0
ROD CM UNIT 0.5
SKY,WIND(t,V) "5.E-2 "
672.685
49283.46500
13776.11088
53842.88474
659.671
49337.46680
15427.12780
54692.88607
654.658
47695.45200
16493.13800
55762.86961
666.668
41562.39870
20550.18130
59814.88831
650.656
48938.46800
18452.16190
57715.88200
656.672
38161.35810
11985.14290
51249.77425
656.698
49282.46900
18141.12500
49402.88543
644.675
44348.41970
19114.16910
58376.83689

652.664
40398.38280
23868.21130
62329.79650
652.660
38871.37200
28176.26360
67436.78131
664.672
41086.38920
12362.18480
51626.68273
652.665
39929.38818
23774.22600
63829.79185
"Σ10" ***
259.680 ***
268.180 ***
3154.040 ***
3154.170 ***
0.520 ***
15.7705 ***
12 ***

Form 780513

FORWARD - (BACK) PAGE ____

FROM BM 19TJS 124 TO BM 18TJS 123

LEVEL HI082 460673
ROD A KERN 314765
ROD B KERN 314764

LINE 1
SECTION 124123
DATE TIME 91020411
STATE/MAN "NV LIN"
TEMP IN °F"
ROD d 0
ROD CM UNIT 0.5
SKY,WIND(†,V) "1.E-1 "

646.658		
24936.22998		
43358.41368		
82620.64208		
	647.668	
643.658	16135.14298	
33862.38488	45837.43888	
35283.32698	85898.55395	
74554.72338	634.646	
641.658	17962.15128	
18561.14128	48951.46288	
32193.28588	68214.57229	
71468.49839	652.674	
626.668	16423.14828	
15888.12958	45294.42688	
47575.44698	84559.55691	
86843.55873	647.672	
618.658	17486.15198	
10883.12518	43427.41188	
48863.45588	82694.56755	
87328.49351	"Σ18" ***	
616.648	297.288 ***	
13992.11308	295.688 ***	
45611.42898	-3154.898 ***	
84878.53258	-3153.918 ***	
648.669	0.593 ***	
15476.12298	-15.7788 ***	
47928.44918	12 ***	
87202.54749		
646.673		
17189.15688		
48994.39688		
80252.56449		

Form 780513

FORWARD - BACK PAGE ____

FROM BM 197JS 124 TO BM 207JS to 125

124125 D183
125126 D119
374.0000 ***

LEVEL NI882 468673
ROD A KERH 314765
ROD B KERH 314764

LINE 1
SECTION 124125
DATE TIME 91020808
STATE/MAH "NV LIH"
TEMP IH °F"
ROD d 0
ROD CM UNIT 0.5
SKY,WIND(T,V) "2.E-1 "
512.537
47251.44810
18413.15898
57649.86491
515.541
41782.38700
11238.14810
50475.81020
517.539
44880.42870
16148.14270
55395.84124
521.540
45168.42700
17922.15300
57166.84412
572.567
35824.37340
16023.13590
55267.75867
567.574
45624.43330
13989.11600
53154.84871
576.590

42873.40110
22386.19690
61564.82128
579.602
45862.42210
16418.13790
55670.84317
547.577
39279.35700
10041.13510
49295.78533
554.556
48626.46170
40889.38290
80141.87877
"Σ10" ***
-258.600 ***
-257.000 ***
2538.620 ***
2538.640 ***
0.516 ***
12.6532 ***
10 ***

02-08-91
PEGTEST @ 15:50
CoLL = ±0.01 mm/m

Form 780513

FORWARD - (BACK) PAGE ____

FROM BM 20 TJS 125 TO BM 19 TJS to 124

LEVEL N1082 468673
ROD A KERH 314765
ROD B KERH 314764

LINE 1
SECTION 125124
DATE TIME 91020413
STATE/MAN "NV LIN"
TEMP IN °F"
ROD d 0
ROD CM UNIT 8.5
SKY,WIND(↑,Y) "3.E-1 "

682.686	686.701	
32745.29740	12424.18810	
49490.46510	38560.36100	
88770.72022	77819.51688	
675.670	691.690	
21800.19290	22254.28500	
37842.34410	39455.37830	
76315.61071	78712.61511	
679.677	"Σ10"	***
13981.18930	255.300	***
45221.42290	253.700	***
84489.53253	-2538.398	***
682.694	-2538.428	***
28531.17510	8.589	***
43885.48860	-12.6528	***
83155.59804	10	***
688.689		
15856.13810		
43285.41190		
82546.55114		
682.682		
18727.15390		
47682.44320		
86954.58800		
686.678		
12911.18190		
49404.46740		
88669.52172		
696.692		
15222.13200		
45466.43280		
84729.54481		

Form 780513

FORWARD - BACK PAGE ____

FROM BM 20TJS 125 TO BM 21TJS 126 ±0

LEVEL H1002 468673
ROD A KERN 314765
ROD B KERN 314764

LINE 1
SECTION 125126
DATE TIME 91020809
STATE/MAN "HY LIN"
TEMP IN "F"
ROD d 0
ROD CM UNIT 0.5
SKY,WIND(t,V) "0 W2"

587.600
49487.47698
16357.14500
55613.88743
686.612
48452.45888
11178.13710
58437.87715
585.596
37532.34490
26286.23390
65547.76790
592.592
38753.35820
19398.16500
58656.78016
663.607
49844.46900
10145.13010
49410.89106
624.686
42193.39710
30752.28160
70814.31455
629.618
27895.25210
32149.30410
71407.66354
618.622
27426.25410
40911.39630
80170.66686
626.643
25866.23650
27124.25600
66379.64321
607.635
41081.39010
21146.19100
60397.80334

624.647
37784.35610
28186.18200
59444.77044
622.658
49862.47488
11169.12530
58426.88319
654.673
40677.47920
16266.15389
55522.87929
624.658
43572.42760
12823.11920
52076.82826
620.639
48478.47470
15635.14610
54891.87733
671.686
47755.45190
17620.15260
56885.87021
"Σ18" ***
318.000 ***
309.900 ***
3331.120 ***
3331.180 ***
0.619 ***
16.6558 ***
-16 ***

Form 780513

FORWARD - (BACK) PAGE ____

FROM BM 21 TJS 126 TO BM 20 TJS to 125

```
                ENDIR
126125  D111
127126  D111
128127  D143
          229    ***


                XEQ J
                LBL J
LEVEL NI002  468673
ROD A KERN  314765
ROD B KERN  314764

LINE    1
  SECTION    126125
    DATE TIME  91020708
     STATE/MAN "MY LIN"
       TEMP IN     "F"
             ROD d  0
      ROD CM UNIT   0.5
  SKY,WIND(X,Y) "0 NI0"
             496.580
          20053.17880
          48947.46810
          88199.59387
             582.580
          20138.18720
          47666.46390
          86916.59388
             585.510
          15391.14400
          43877.48910
          89127.54643
             516.531
          14888.13320
          48232.47420
          87482.53338
             526.537
          11779.16700
          45843.44700
          85896.51030
             548.564
          14016.11230
          41191.38300
          88444.53269
             546.560
          17769.15690
          48391.38180
          79643.57021
             556.572
          36776.35580
          24378.23890
          63629.76829
             568.585
          48226.38760
          29666.28260
          68921.79480
             585.611
          31398.29310
          28114.26130
          67371.78652
             578.596
          30452.28100
          38931.36690
          78194.69713
             566.591
          15298.13800
          47662.45320
          86916.54548
             572.593
          16693.13710
          42388.39420
          81658.55956
             568.592
          26887.23910
          36753.33720
          76020.66870
             568.587
          12314.15250
          49577.46580
          88845.51580
             568.584
          12786.11080
          49412.47980
          88667.51959
        "Σ10"    ***
      383.400    ***
      382.000    ***
    -3331.320    ***
    -3331.370    ***
        0.685    ***
    -16.6567     ***
           16    ***
```

02-07-91
PEGTEST @ 15:56
COLL = -0.01 mm/m

Form 780513

FORWARD - BACK

PAGE ____

FROM BM 21TJS 126 TO BM 22TJS 127

LEVEL NI002 460673
ROD A KERN 314765
ROD B KERN 314764

LINE 1
SECTION 126127
DATE TIME 91021510
STATE/MAN "MV LIN"
TEMP IN °F"
ROD d 0
ROD CM UNIT 0.5
SKY,WIND(↑,V) "100 S5"

637.650
48646.45820
11008.13790
50269.87911
642.656
35935.33250
15322.12510
54589.75201
664.683
46100.43490
18952.16400
58215.85368
672.686
44225.41690
20134.17480
59402.83491
663.678
41549.37890
10466.13810
49744.80826
665.693
45713.43680
15641.13460
54938.84983
664.694
46423.44080
15396.13100
54667.85696
675.694
44834.41450
27057.24486
66326.83305
679.696
26981.25490
37706.36310
76967.66163
664.685
17538.16520
42690.41530
81946.56795

679.653
32896.31000
13681.11810
52868.72161
657.676
46291.45180
18383.11260
49568.85546
687.705
43582.43000
15563.14800
54756.82834
700.701
49183.48100
18536.17480
57793.88440
713.705
44496.41500
33814.30230
72284.83770
685.701
35361.34840
26581.26100
65834.74613
"Σ10" ***
311.200 ***
318.700 ***
3169.630 ***
3169.750 ***
0.622 ***
15.8485 ***
.16 ***

Form 780513

FORWARD - BACK PAGE ____

FROM BM 22 TJS TO BM 21 TJS
127 ±0 126

LEVEL NI002 460673
ROD A KERN 314765
ROD B KERN 314764

LINE 1
SECTION 127126
DATE TIME 91020709
STATE/MAN "NV LIN"
TEMP IN °F"
ROD d 0
ROD CM UNIT 0.5
SKY,WIND(t,V) "0 H4"

575.592	658.666
38954.36410	13386.10600
39545.37020	49366.46550
78814.78224	88634.52657
688.633	664.678
18994.17530	10864.13480
45425.44000	47341.44620
84686.58254	86689.50128
656.662	650.644
16813.15080	12882.10010
46027.45190	35159.22390
85281.55267	74435.52155
684.633	646.668
12783.12000	16357.13200
48645.47910	47793.44550
87898.52038	87868.55637
684.616	612.636
11258.10190	15611.12620
43239.42810	38883.35650
82494.50513	78158.54883
614.639	635.664
21277.19950	21938.19800
38357.28980	39704.37780
69613.60532	78972.61201
642.669	649.664
40595.39450	10871.13010
15926.14820	46929.44510
55183.79950	86197.50137
653.669	"Σ10" ***
38254.36650	313.700 ***
26634.25130	315.900 ***
65894.77515	-3179.350 ***
620.639	-3170.440 ***
25115.22590	0.630 ***
41214.38800	-15.8520 ***
80482.64383	16 ***

Form 780513

FORWARD - BACK PAGE ____

FROM BM 21 TJS 126 TO BM 22 TJS 127

LEVEL H1082 460673
ROD A KERN 286382
ROD B KERN 286361

LINE 1
SECTION 126127
DATE TIME 91031211
STATE/MAH "NV LIN"
TEMP IN "F"
ROD d 0
ROD CM UNIT 64.0
SKY,WIND(t,V) "1 S16"
535.549
49134.46580
11919.14520
51179.88395
554.584
42323.39490
22589.19790
61854.81587
541.548
49883.46780
16479.13380
55742.89866
554.581
44498.41710
21858.18210
60318.83758
562.588
40966.37800
12840.15130
51385.88228
536.553
47686.45580
13389.11110
52566.86860
558.581
49844.47110
15197.12520
54456.89184
582.598
41158.38290
34432.31420
73698.88111
585.613
21698.19720
45888.44000
85137.68944
549.565
25408.23890
21686.19410
68868.64666
558.588
48867.47410
15623.14850
54874.87258
574.593
43969.43420
18812.18290
58862.83220
558.555
42688.41910
27512.26850
66760.81931
546.555
42354.41310
13478.12220
52738.81686
544.552
38754.37810
26811.25210
66866.78888
577.587
32845.38580
26392.24698
65644.71296
"Σ18" ***
320.388 ***
321.888 ***
3178.940 ***
3178.878 ***
0.642 ***
15.8545 ***
16 ***

Form 780513

FORWARD - (BACK)

PAGE ____

FROM BM 22 TJS / 127 TO BM 21 TJS / 126

LEVEL NI002 468673
ROD A KERN 206382
ROD B KERN 206361

LINE 1
SECTION 127126
DATE TIME 91031210
STATE/MAN "MV LIN"
TEMP IN "F"
ROD d 0
ROD CM UNIT 64.8
SKY,NIMB(1,V) "0 S8"

514.522
29349.27589
32599.38720
71855.68608
549.562
26347.24890
41736.48388
88991.65602
585.528
21845.20910
42912.42048
82167.61096
588.524
20819.19488
43863.43140
83115.59271
514.531
22048.21588
48263.39838
79511.61297
583.511
17787.17118
42893.42198
82146.56958
537.535
18953.12898
39669.37648
78929.58214
538.550
43789.42498
16881.14938
55335.87962
533.548
36942.35510
26943.25520
66194.76196
588.538
26668.23418
49878.46498
89136.65926

522.541
18774.18420
49287.47838
88466.58838
516.534
15839.12798
43378.41278
82638.54294
528.559
17698.15718
42155.48818
81413.56945
533.568
26836.24258
43425.48828
82688.66183
528.536
18526.16818
43618.41888
82872.57785
526.546
20335.18498
43568.41628
82824.59593
516.548
25952.23318
38288.35698
77546.65211
528.541
11444.13568
46767.44518
86827.58783
"Σ18" ***
313.988 ***
314.788 ***
-3178.448 ***
-3178.518 ***
0.629 ***
-15.8524 ***
18 ***

Form 780513

FORWARD - BACK PAGE ____

FROM BM 22TJS 127 TO BM 23TJS 128

LEVEL NI002 469673
ROD A KERN 206382
ROD B KERN 206361

LINE 1
SECTION 127128
DATE TIME 91031213
STATE/MAN "NV LIN"
TEMP IN °F"
ROD d 0
ROD CH LMIT 64.0
SKY,WIND(†,V) "95 S10"

563.576
42483.41000
18081.16650
57256.81736
556.561
43974.42890
12426.18580
51678.83228
566.577
44884.43210
15539.13910
54792.84135
575.581
44856.43890
18482.16790
57657.84111
562.588
45999.44700
11746.18550
58995.85250
555.568
43497.42850
14484.13830
53735.82658
562.562
43989.43180
18110.17320
57368.83241
578.569
46655.45520
16992.15720
56241.85985
578.576
48413.46220
13186.18910
52365.87668

565.579
46121.44860
18585.16420
57843.85376
575.577
43599.41320
18358.16120
57615.82853
559.562
43435.41280
18347.16890
57683.82689
575.586
42389.40210
21597.19580
60853.81646
568.566
38235.36510
27778.26820
67836.77490
577.586
14885.12580
38916.36580
78178.54863
567.588
36887.28530
42843.40450
82188.78142
568.578
43162.40580
13314.18780
52572.82420
568.588
46348.45810
13345.12190
52688.85680
569.591
44783.43780
18558.11430
49885.84836
558.565
47662.46940
15686.14820
54939.86912
564.572
47879.47200
11681.18910
58853.87130
536.564
45877.44390
20851.20350
60182.84328

°Σ10°	***
336.700	***
336.200	***
5284.700	***
5284.470	***
8.673	***
26.4229	***
22	***

Form 780513

FORWARD - (BACK) PAGE ____

FROM BM 23 TJS 128 TO BM 22 TJS to 127

EXHIR

128127 D143
127126 D143
126127 D127
127128 D143

36 ***

LEVEL NI082 460673
ROD A KERN 206382
ROD B KERN 206361

LINE 1
SECTION 128127
DATE TIME 91031208
STATE/MAN "MV LIN"
TEMP IN °F"
ROD d 0
ROD CM UNIT 64.0
SKY,WIND(†,V) ;0 S2"

478.474
12267.11358
45779.44848
85828.51517
582.485
16871.15418
47443.46798
86692.55323
475.475
15690.14988
43642.43018
82892.54939
458.498
15146.14648
48642.48198
79893.54396
480.588
13870.12288
48361.47478
87615.52324
480.498
13828.12668
45423.44288
84677.53881
457.474
21228.19898
42997.48698
82251.68483
459.485
46854.44398
26746.25928
65994.85386
457.488
48447.47158
26569.25418
65822.87788
488.518
35549.33988
37281.35598
76451.74882
498.538
17573.14618
47589.44528
86761.56823
476.588
11974.14958
46563.43529
85823.51238
586.588
16889.14588
45746.43498
84997.56143
490.511
12733.18618
49765.47598
89822.51987
495.524
19279.17968
49685.48398
88931.58529
469.512
19685.18758
48857.47258
87389.58937
587.535
12147.11488
50015.49128
89267.51398
589.536
12248.18758
41412.48888
80663.51494
512.534
18969.17798
38995.37788
78248.58222
523.558
15386.13698
43587.41888
82761.54645
586.542
12884.11388
39296.37758
78548.52141

528.538
15179.13388
45357.43618
84614.54431
"218" ***
315.488 ***
314.988 ***
-5284.178 ***
-5284.888 ***
'8.638 ***
-26.4286 ***
22 ***

03-12-91
pegtest @ ~~15.08~~ 16.01
COLL=.001 m/m

Form 790512

FORWARD - BACK PAGE ____

FROM BM 22TJS / 127 TO BM 23 TJS / 128

LEVEL NI002 468673
ROD A KERN 314765
ROD B KERN 314764

LINE 1
SECTION 127128
DATE TIME 91021912
STATE/MAN "NV LIN"
TEMP IN "F"
ROD d 0
ROD CM UNIT 0.5
SKY,WIND(↑,V) "2.E-1 "

	648.652
	47449.45648
	14812.12198
	53278.86712
	648.642
	46763.44918
	16167.14258
	55434.86825
	636.644
	46774.44688
	16383.14398
	55658.86846
	654.669
	43889.42288
	14225.12458
	53489.83872
	646.652
	44957.43898
	19758.18738
	59814.84212
	646.662
	49998.49288
	20129.19488
	59388.89251
	656.672
	49341.48208
	16996.15888
	56254.88688
	666.666
	49951.48188
	11737.13568
	51884.89217
	646.647
	48754.46598
	17921.15918
	57187.88824
	642.643
	48388.45428
	13666.18628
	52939.87654
	664.686
	43328.41838
	17615.15488
	56878.82592
	662.671
	46393.43488
	17111.14388
	56386.85671
	643.654
	35268.32488
	28385.25568
	67578.74532
	655.654
	22486.28388
	35161.32998
	74424.21745
	668.664
	25264.23518
	28153.26488
	67412.64525
	692.692
	49195.46488
	11812.14588
	51877.88464
	681.782
	49375.48588
	11645.18858
	58897.88629
	678.693
	48937.48198
	11715.18978
	58978.88189
	687.788
	49612.48938
	14877.14118
	54132.88866
	699.788
	48248.39728
	20427.19988
	59688.79493
"ΣΙΘ"	***
337.388	***
336.888	***
5284.518	***
5284.568	***
0.673	***
26.4227	***
28	***

Form 780513

FORWARD - (BACK)

PAGE ____

FROM BM 23 TJS / 128 TO BM 22 TJS / 127

LEVEL HI002 468673
ROD A KERN 314765
ROD B KERN 314764

LINE 1
SECTION 128127
DATE TIME 91020712
STATE/MAN "NV LIN"
TEMP IN "F"
ROD d 0
ROD CM UNIT 0.5
SKY,WIND(↑,V) "0 S10"

686.699	673.688
11521.18920	13728.18610
49408.48860	49248.46180
88662.58775	88525.53800
665.718	664.676
16283.15580	15282.12530
49588.48900	49936.47190
88841.55459	89283.54472
688.700	658.662
14775.14190	11235.13510
45933.45360	49386.47110
85340.54186	88658.58499
664.670	663.679
13850.12070	14724.13620
46318.45240	47195.45980
85576.52306	86454.53983
664.706	699.711
16908.16250	14215.13430
45564.45010	44448.43740
84818.56162	83694.53468
669.696	675.685
18345.16900	18116.11810
32822.38400	46531.45450
71289.57608	85787.49372
668.696	687.693
39387.36820	18189.12300
44248.41690	49976.47620
83526.78660	89237.49443
648.671	688.686
38982.36980	18427.12590
12967.18980	49848.47600
52235.78251	89113.49691
687.688	674.690
33488.31888	28698.19280
43718.41358	41881.48520
82998.72668	81142.59949
667.677	691.704
18258.15598	17826.16350
44455.41888	44479.43818
83738.57534	83733.57885
	"Σ10" ***
	321.288 ***
	321.188 ***
	-5279.688 ***
	-5279.698 ***
	8.642 ***
	-26.3982 ***
	28 ***

Rejected

Form 780513

FORWARD - BACK PAGE ____

FROM BM 23 TJS 128 TO BM 24 TJS 1983 to 129

```
                    EMDIR
128129 D103
129130 D103
132131 D103
        285.0000   ***
                   XEQ J
                   LBL J
LEVEL HI002  460673
ROD A KERH  314765
ROD B KERH  314764

LINE  1
 SECTION  128129
   DATE TIME  91022008
    STATE/MAH "HV LIN"
     TEMP IH    "F"
          ROD d   0
   ROD CM UNIT   0.5
 SKY,WIND(t,V) "0 S3"
          568.562
        36773.34470
        29996.27610
        69258.76829
          564.579
        39112.35790
        31134.28600
        70392.77368
          569.593
        30713.28350
        19473.17100
        59732.69973
          571.606
        39494.36500
        31644.28800
        70901.78753
          600.613
        33875.31420
        40089.37610
        79270.73135
          584.616
        41957.40100
        33105.31100
        72364.81212
          603.624
        42527.39510
        16311.13450
        55582.81794
          624.635
        43867.41070
        13813.11100
        52273.82327
          606.638
        49247.46700
        12188.14480
        51451.88514
          604.636
        48364.46200
        18638.16420
        57897.87625
          612.655
        49391.48610
        12163.18890
        51423.89147
          626.674
        47042.45570
        10880.12260
        58139.86296
          626.648
        43848.41920
        22902.21950
        62157.82294
          603.638
        28821.28480
        31385.31000
        70635.68073
       "Σ10"   ***
      275.100  ***
      275.100  ***
     2500.820  ***
     2500.749  ***
        0.550  ***
     12.5039   ***
          14   ***
```

02-20-91
PEG TEST @ 15:58
COLL=.00171 mm/m

Form 780513

FORWARD - (BACK)

PAGE ____

FROM BM 24 TJS 129 TO BM 23 TJS to 128

```
                    ENDIR
129128  D103
126127  D119
        374.8800    ***

LEVEL NI002  468673
ROD A KERN  314765
ROD B KERN  314764

LINE    1
  SECTION    129123
     DATE TIME  91021508
      STATE/MAN "NV LIN"
        TEMP IN    "F"
            ROD d   8
    ROD CM UNIT   0.5
  SKY,WIND(↑,V)  "1 W5"
             593.595
        21848.19790
        47027.45000
        86282.61103
             600.593
        11979.14290
        47664.45290
        86017.51234
             599.594
        15844.14180
        49444.47710
        88695.55097
             595.593
        14972.13720
        45933.44650
        85188.54225
             588.594
        33297.31520
        16144.14410
        55397.72548
             604.600
        12922.15610
        49691.47000
        88945.52174
             608.608
        22209.19439
        38934.36140
        78198.61461
             612.616
        29838.26590
        28876.25510
        67330.68292
             618.620
        23483.20700
        41815.38110
        80268.62658
             618.614
        15348.12090
        44986.41810
        84242.54594
             631.632
        23228.20110
        25535.22500
        64797.62491
             626.624
        11447.13880
        51170.48500
        90436.50715
       "Σ18"    ***
    282.500     ***
    283.700     ***
  -2500.920     ***
  -2500.900     ***
      0.566     ***
    -12.5046    ***
         12     ***
```

02-15-91
PEGTEST @ 16:08
COLL = -0.01 mm/m

Form 780513

FORWARD - BACK PAGE ____

FROM BM 24TJS 1993 / 129 TO BM 25TJS / 130

LEVEL NI002 460673
ROD A KERN 314765
ROD B KERN 314764

LINE 1
SECTION 129130
DATE TIME 91022810
STATE/MAN "KV LIN"
TEMP IN "F"
ROD d 0
ROD CM UNIT 0.5
SKY,WIND(†,V) "0 S3"

659.688	47178.44990
27127.24940	10699.12710
14681.12300	49961.86435
53941.66382	673.700
664.670	49720.47598
45270.44090	12551.10250
14094.13000	51817.88981
53349.84527	660.709
676.687	49874.46210
46039.44100	10917.13510
11854.10100	50185.88342
51114.85296	689.701
692.700	45824.44290
47618.46040	19443.10010
19840.10090	58697.85882
59098.86873	685.694
676.687	41719.41170
49749.48310	18358.17600
11881.12499	57613.80971
50263.89007	676.706
663.689	27011.26740
47289.45740	28079.27690
17490.16130	67331.66262
56747.86547	"Σ18" ***
672.698	227.900 ***
42767.40900	228.400 ***
17588.15700	3981.270 ***
56770.82027	3981.810 ***
667.689	0.456 ***
49516.47400	19.9857 ***
11259.13400	14 ***
50522.88777	
658.675	

Form 780513

FORWARD - BACK

PAGE ____

FROM BM 25TJS 130 TO BM 24TJS 1983 to 129

LEVEL H1882 460673
ROD A KERN 314765
ROD B KERN 314764

LINE 1
SECTION 130129
DATE TIME 91021910
STATE/MRH "MY LIN"
TEMP IN °F"
ROD d 0
ROD CM UNIT 0.5
SKY,WIND(†,V) "0 W5"

566.593	608.639
14207.11560	13082.11030
44435.41800	49217.47250
83700.53469	88478.52340
561.588	604.632
28860.18510	12191.10980
37883.34630	38419.37260
76339.60119	77674.51445
568.586	618.626
11229.12910	10489.11810
43259.41400	47858.45600
82518.58488	86316.49745
576.594	614.628
12604.11550	20146.19040
46484.45660	43371.42290
85932.51853	82626.59402
587.618	614.624
10859.11790	24238.22750
49262.48210	26914.25590
88514.58113	66173.63498
588.611	"Σ10" ***
10521.11660	216.200 ***
47816.45820	215.700 ***
86273.49777	-3988.950 ***
587.622	-3981.860 ***
13742.11920	0.432 ***
38448.36600	-19.9050 ***
77700.53000	14 ***
623.642	
20582.18960	
48269.46520	
87531.59759	
599.644	
13790.12200	
47128.45680	
86389.53849	

Form 780513

FORWARD - BACK PAGE ____

FROM BM 25 TJS 130 TO BM 26 TJS 131

LEVEL HI002 468673
ROD A KERN 314765
ROD B KERN 314764

LINE 1
SECTION 130131
DATE TIME 91022110
STATE/MAN "HV LIN"
TEMP IN "F"
ROD d 0
ROD CM UNIT 0.5
SKY,WIND(↑,V) "3.E-1 "

	686.704
	37870.35110
	21987.19200
	61256.77143
	712.721
	26208.24150
	46569.44590
	85831.65472
	672.674
	23648.28310
	15864.12700
	55134.62914
	676.669
	49258.47700
	19726.18110
	58986.88528
	672.685
	32617.38700
	25812.23790
	65879.71882
	708.711
	49119.46810
	18892.13800
	58165.88390
	698.725
	49866.47890
	15718.13600
	54978.88327
	708.708
	46486.44400
	17243.15240
	56582.85747

	681.692
	47252.44640
	19236.16610
	58499.86514
	701.716
	41212.38900
	16753.14400
	56815.80477
	696.734
	49974.47080
	21395.18590
	68665.85241
	706.718
	46084.44810
	14853.12790
	54110.85346
"Σ10"	***
273.000	***
271.800	***
2527.460	***
2527.530	***
0.545	***
12.6375	***
12	***

Form 780513

FORWARD - (BACK)

PAGE ____

FROM BM 26TJS / 131 TO BM 25 TJS / 130

```
                    EMDIR
131130  D183
130129  D183
127128  D127
        261.0000    ***
                   XEQ J
                   LBL J
LEVEL NI002  460673
ROD A KERN  314765
ROD B KERN  314764

LINE    1
  SECTION    131130
     DATE TIME  91021900
      STATE/MAN "MY LIN"
        TEMP IN     "F"
              ROD d   0
       ROD CM UNIT   8.5
 SKY,WIND(t,V) "2.E-1 "
               512.528
             19897.17210
             38471.36000
             77725.59148
                518.534
             10818.13110
             45311.42910
             84561.58871
                515.548
             19871.18630
             39447.38190
             78697.59121
                534.568
             17993.15000
             44757.41700
             84011.57248
                536.559
             11786.14450
             49989.47210
             89242.51039
                542.568
             16359.13800
             48942.46500
             88197.55610
                531.547
             19014.17690
             45965.44480
             85215.58265
                548.560
             18425.12620
             32293.29910
             71556.49687
                540.564
             26065.23730
             46946.44720
             86286.65324
                543.551
             11386.13480
             43588.41420
             82843.58562
                579.580
             39485.38200
             18850.17500
             58187.78737
                554.576
             39546.37910
             25655.23900
             64909.78802
                568.592
             24100.22310
             42497.40790
             81752.63357
                570.583
             28282.27390
             24976.23910
             64229.67532
            "Σ10"    ***
          275.900    ***
          276.600    ***
        -2527.400    ***
        -2527.470    ***
            0.553    ***
          -12.6372   ***
               14    ***
```

02-19-91
pcg test @ 16:30
COLL= 1.00323 mg/m

Form 780513

FORWARD - BACK PAGE ____

FROM BM 26 TJS 131 TO BM 27 TJS to 132

LEVEL HI002 460673
ROD A KERN 314765
ROD B KERN 314764

LINE 1
SECTION 131132
DATE TIME 91022113
STATE/MAN "HV LIH"
TEMP IN "F"
ROD d 0
ROD CM UNIT 0.5
SKY,WIND(t,V) "3.E-1 "
696.720
41532.39300
24190.21790
63454.80793
721.737
36733.33810
20435.17410
59706.76805
712.727
49468.45990
39900.36650
79172.88738
708.726
39566.36420
16071.12890
55333.78831
720.704
49408.45810
11550.15020
50827.88680
699.722
48825.47150
18825.17310
58882.88033

708.715
48524.47200
21548.20000
60809.87782
709.743
38441.37560
17970.17160
57224.77696
"Σ18" ***
189.600 ***
189.100 ***
1820.080 ***
1820.010 ***
0.379 ***
9.1002 ***
8 ***

Form 780513

FORWARD - (PACK)

PAGE ____

FROM BM 27TJS 132 TO BM 26TJS to 131

LEVEL NI002 460673
ROD A KERN 314765
ROD B KERN 314764

LINE 1
SECTION 132131
DATE TIME 91022813
STATE/MAN "NV LIN"
TEMP IN "F"
ROD d 0
ROD CM UNIT 0.5
SKY,WIND(†,V) "1.E-1 "

716.758	718.706
10164.11400	11962.14590
48373.46930	38327.27790
87629.49420	69593.51233
701.744	701.714
14292.13400	23161.21580
41616.40820	32847.31130
80372.53547	72108.62419
694.738	706.704
16496.13900	19545.17950
49930.47200	42315.40600
69197.55766	81577.58805
712.722	704.705
16119.13800	21235.20880
24244.21910	33961.32810
63514.55387	73216.68492
727.729	"Σ10" ***
28798.26980	176.000 ***
23457.26750	178.400 ***
67720.68852	-1820.860 ***
687.697	-1820.890 ***
29919.27800	0.354 ***
41619.39520	-9.1004 ***
80885.69181	10 ***

FORWARD - BACK PAGE ____

FROM BM 27 TJS 132 TO BM 28 TJS 133

EMDIR
132133 D103
135134 D103
390.0000 ***

LEVEL HI002 468673
ROD A KERN 314765
ROD B KERN 314764

LINE 1
SECTION 132133
DATE TIME 91022209
STATE/MAN "HV_LIN"
TEMP IN "F"
ROD d 0
ROD CM UNIT 0.5
SKY,WIND(T,V) "1 S2"
588.594
13852.12120
32545.30800
71792.53101
606.603
43701.48400
13756.10520
53008.82956
604.608
47868.44700
11064.14050
50319.87115
599.600
48338.46000
10942.13360
50197.87593
596.602
48846.47480
17130.15620
56382.88097
596.600
41871.39880
16815.14830
56869.81123
596.597
41350.38700
11989.14620
51247.88611
598.602
48318.46840
22084.20710
61335.87572
600.604
47753.46110
26185.24510
65439.87809
594.598
49408.48100
11242.12600
50496.88662
606.607
47515.45890
12597.11890
51850.86771
596.606
47139.46090
15532.14660
54782.86392
"Σ10" ***
231.900 ***
230.400 ***
3240.700 ***
3240.850 ***
8.462 ***
16.2039 ***
12 ***

02-22-91
Pegtest @ 16:10
Coll = -0.01 mm/m

Form 780513

FORWARD - (BACK)

PAGE ____

FROM BM 28 TJS 133 TO BM 27 TJS to 132

EMDIR

133132 D103
130131 D103
131132 B103
134133 D103
180 ***

LEVEL NI002 460673
ROD A KERN 314765
ROD B KERN 314764

LINE 1
SECTION 133132
DATE TIME 91022108
STATE/MAN "HV LIN"
TEMP IN °F"
ROD d 0
ROD CM UNIT 0.5
SKY,WIND(↑,V) "2.E-1 "
536.550
16335.15700
47320.46700
86569.55586
558.576
18133.16720
49043.47520
68293.57386
618.612
15200.12950
49485.47110
88736.54458
620.620
17733.14570
49704.46700
88951.56985
619.648
11891.14100
45088.42700
84344.51148
622.632
14710.11930
49954.47300
89220.53974
628.657
17190.15580
49670.47930
88927.56446
624.645
19384.17000
45187.42820
84452.58648
634.656
14019.12100
49183.47160
88445.53276
632.635
14347.12410
49032.47090
88286.53599
642.657
21757.20190
36488.34870
75745.61812
636.650
19938.18500
33541.32260
72796.59194
648.655
44272.43000
32593.31190
71851.83529
680.689
33388.32810
16874.15420
55326.72632
"Σ10" ***
246.400 ***
247.100 ***
-3240.730 ***
-3240.760 ***
0.494 ***
-16.2837 ***
14 ***

02-21-91
pgtest @ 16.11 A.M.
COLL = 0.00 mm/m

Form 780513

FORWARD - BACK PAGE ____

FROM BM 28 TJS 133 TO BM 29 TJS to 134

LEVEL NI002 468673
ROD A KERN 314765
ROD B KERN 314764

LINE 1
SECTION 133134
DATE TIME 91822513
STATE/MAN "NY LIN"
TEMP IN °F"
ROD d 0
ROD CM UNIT 0.5
SKY,WIND(T,V) "0 S2"

665.678
39466.37410
27109.25100
66377.78731
657.682
37329.35110
41796.39460
81064.76594
668.697
38713.36200
10774.13300
50847.77984
638.660
43505.41530
14779.12780
54838.82765
648.683
49837.47800
13209.11380
52470.89096
614.635
46429.44600
11958.10000
51215.85689
634.646
45646.43880
14298.12300
53546.84907
637.658
43775.41790
11538.13400
50880.83035
658.681
42182.39900
26469.24320
65734.81448

671.689
48225.45790
18138.12450
49391.87489
666.700
48946.48190
12646.11890
51899.88199
646.685
48754.47260
20547.19150
59802.88812
675.684
40978.40410
28915.28280
68168.88221
643.674
39858.39410
23284.22800
62535.79109
"ΣI0" ***
237.200 ***
237.900 ***
3461.910 ***
3461.930 ***
0.475 ***
17.3096 ***
14 ***

Form 780513

FORWARD - (BACK) PAGE ____

FROM BM 29 TJS 134 TO BM 28 TJS 133

LEVEL HI002 460673
ROD A KERN 314765
ROD B KERN 314764

LINE 1
SECTION 134133
DATE TIME 91022114
STATE/MAN "NY LIN"
TEMP IN "F"
ROD d 8
ROD CM UNIT 0.5
SKY,WIND(t,V) "3.E-1 "

708.733		
19511.18270		
45070.43730		
84324.58770		
725.729		
17589.16080		726.732
46689.45200		14517.12820
85949.56850		42333.48540
731.748		81594.53779
18581.17550		718.745
48531.47550		12338.15210
87785.57840		40861.38060
710.712		80124.51606
17137.16010		711.730
45002.43720		28632.26900
84258.56393		39579.37890
711.732		78839.67889
15746.14670		704.736
34922.33890		23002.28540
74177.55002		32602.38100
712.734		71867.62268
24229.22290		725.754
49325.46300		22381.21310
87582.63487		35504.34410
710.730		74757.61635
12673.10580		"Σ10" ***
41464.39580		233.800 ***
80726.51936		233.700 ***
704.728		-3461.810 ***
10623.12690		-3461.630 ***
48859.46800		0.468 ***
88125.49890		-17.3086 ***
704.714		14 ***
13016.11100		
46415.44460		
85677.52276		

Form 780513

FORWARD - BACK PAGE ____

FROM BM 29TJS TO BM 30TJS

134 TO 135

LEVEL HI002 460673
ROD A KERN 314765
ROD B KERN 314764

LINE 1
SECTION 134135
DATE TIME 91022515
STATE/MAN "MV LIN"
TEMP IN "F"
ROD d 0
ROD CM UNIT 0.5
SKY,WINDC↑,V) "0 S2"
644.680
39755.37690
16977.14790
56237.79815
664.690
42184.39490
32746.30110
72009.81451
645.693
49231.46710
20867.18400
68134.88493
644.663
45867.43700
16988.14750
56171.85127
668.678
45093.42910
15136.12990
54481.84354
656.656
29274.26190
21668.18630
68940.68545
638.652
44823.41210
10133.12810
49483.83296
656.671
49721.47400
14517.12210
53776.88984

672.686
47146.44810
17834.15700
57099.86412
649.686
33967.31890
10995.12820
50263.73136
"Σ10" ***
236.000 ***
233.500 ***
2483.000 ***
2483.000 ***
0.470 ***
12.4190 ***
10 ***

Form 780513

FORWARD - (BACK) PAGE ____

FROM BM 30TJS / 135 TO BM 29 TJS / 134

LEVEL HI002 460673
ROD A KERH 314765
ROD B KERH 314764

LINE 1
SECTION 135134
DATE TIME 91022210
STATE/MAN "HV LIN"
TEMP IN °F"
ROD d 0
ROD CM UNIT 0.5
SKY,WIND(†,V) "I S5"

	624.630	634.642
	12147.15610	30759.28850
	47857.43520	39789.37790
	86326.51417	79846.70818
	602.610	633.646
	15196.12790	24749.23490
	49931.47600	37752.36380
	89191.54454	77008.64002
	624.629	636.648
	10082.12700	29867.29240
	48143.45400	29868.28500
	87406.49344	68319.69121
	628.634	"Σ10" ***
	10079.13000	239.100 ***
	37651.34650	237.800 ***
	76917.49344	-2483.600 ***
	603.635	-2483.740 ***
	27238.23920	0.477 ***
	49284.45900	-12.4186 ***
	88470.66506	10 ***
	626.639	
	10769.13260	
	49245.46810	
	88511.50032	
	627.637	
	12170.15030	
	43584.48570	
	82850.51432	

Form 780513

FORWARD - BACK PAGE ____

FROM BM 30 TJS 135 TO BM 31 TJS to 136

EMDIR

135136 D103
495.0000 ***

LEVEL NI002 460673
ROD A KERN 314765
ROD B KERN 314764

LINE 1
SECTION 135136
DATE TIME 91822515
STATE/MAN "NV LIN"
TEMP IN °F"
ROD d 8
ROD CM UNIT 8.5
SKY,WIND(t,V) "8 SI"
655.686
41452.39090
14526.12280
53798.88721
653.663
49383.46710
18103.12810
49366.88650
679.674
49875.46700
18610.12880
49871.88331
656.661
45748.43000
18828.16100
58085.85013
652.668
45979.43800
13464.11400
52729.85245
644.654
49569.47810
18549.12200
49803.88825
641.652
48541.46870
18940.17280
58280.87793
641.657
49928.48280
17637.16000
56895.89190
638.649
41892.39780
15614.13610
54873.81147
657.667
46737.44480
11223.13490
50484.85997
642.654
47215.45600
13253.11650
52588.86470
628.636
47924.46680
12213.18780
51463.87173
622.635
41351.39980
14469.13090
53724.88687
626.635
44375.43480
28233.19170
59484.83631
624.636
42634.40940
27838.26210
67091.81887
622.634
45428.44810
23438.23000
62689.84682
"Σ18" ***
285.500 ***
285.700 ***
4843.810 ***
4843.840 ***
0.571 ***
24.2151 ***
16 ***

02-25-91
pegrest @ 16:30
coll = -.00485 mm/m

Form 780513

FORWARD - (BACK) PAGE ____

FROM BM 31TJS 136 TO BM 30TJS 135

LEVEL NI002 460673
ROD A KERN 314765
ROD B KERN 314764

LINE 1
SECTION 136135
DATE TIME 91022511
STATE/MAN "MV LIN"
TEMP IN "F"
ROD d 0
ROD CM UNIT 0.5
SKY,WINDC↑,V> "0 S2"
582.610
24471.23500
38813.37880
78069.63725
596.599
19533.18000
47889.46210
87143.58789
596.600
14643.13480
43857.42630
83109.53896
610.612
17017.15400
45981.44450
85154.56275
586.626
13421.12150
48825.47490
88079.52678
606.623
15154.13500
46586.44990
85763.54410
600.614
13147.10710
48591.46210
87855.52410
642.646
17312.14850
47633.45080
86898.56573
609.626
10234.11840
41981.40250
81239.49491
606.616
15217.13910
47769.46410
87025.54477

622.644
12332.10580
47922.46160
87183.51597
604.622
13538.11000
42564.40040
81823.52800
610.636
18376.15820
50806.47650
89272.57643
596.622
17924.15850
48802.45810
87264.57186
656.649
14063.12190
46762.44730
86818.53315
650.660
12839.10580
48503.38200
79759.52893
"Σ10" ***
285.200 ***
287.100 ***
-4843.030 ***
-4842.950 ***
0.572 ***
-24.2150 ***
16 ***

Form 780513

FORWARD - BACK PAGE ____

FROM BM 31 TJS / 136 TO BM 32 TJS / 137

```
                ENDIR
136137  D103
137138  D103
138139  D127
139140  D143
            116    ***
                XEQ J
                LBL J
LEVEL N1882  460673
ROD A KERN  314765
ROD B KERN  314764

LINE   1
 SECTION   136137
   DATE TIME  91022709
    STATE/MAH "NY LIN"
      TEMP IN     "F"
           ROD d   0
     ROD CM UNIT   0.5
  SRY,WINB(1,V) "1 S2"
            541.545
          38911.35950
          11856.14790
          51103.78158
            554.560
          49279.45720
          14624.11020
          53872.88526
            565.573
          48933.45610
          18569.13810
          49819.88187
            551.558
          47377.46188
          19389.18280
          58561.86627
            571.575
          45311.43690
          11034.12720
          58286.84562
            552.556
          44926.43760
          15814.14580
          55866.84178
            551.557
          48928.47480
          13371.12080
          52623.88171
            556.565
          48674.47480
          17488.16280
          56741.87926
            567.578
          38336.37550
          27755.27060
          67886.77586
            572.573
          29675.29160
          19182.18610
          58351.68925
         "Σ18"    ***
        173.200   ***
        173.980   ***
       2794.210   ***
       2794.180   ***
          0.347   ***
         13.9710  ***
             18   ***
```

02-27-91
pegTest @ 16.15
Coll = -.0048 mm/m

Form 780513

FORWARD - (BACK)

PAGE ____

FROM BM 32 TJS / 137 TO BM 31 TJS / 136

LEVEL HI002 460673
ROD A KERN 314765
ROD B KERN 314764

LINE 1
SECTION 137136
DATE TIME 91022510
STATE/MAN "NV LIN"
TEMP IN "F"
ROD d 0
ROD CM UNIT 0.5
SKY,WIND(†,V) "0 S2"
545.565
21372.18810
46986.44390
86166.60627
543.571
13955.15898
46864.44020
85319.53213
566.585
11939.14380
46185.43700
85445.51281
572.586
14535.16890
48452.45970
87712.53793
560.573
10862.13210
46076.43620
85334.50120
585.589
10121.12020
48949.46990
88206.49376
584.582
15813.14580
49844.47760
88297.55063
583.599
15427.14580
48054.39090
79306.54670

684.622
20188.19510
38438.37880
77690.59359
583.595
33502.33220
36882.36500
76131.72752
"Σ10" ***
165.100 ***
165.800 ***
-2794.160 ***
-2794.240 ***
0.331 ***
-13.9710 ***
10 ***

Form 780513

FORWARD - BACK PAGE

FROM BM 32 TJS 137 TO BM 33 TJS to 138

LEVEL NI002 468673
ROD A KERN 314765
ROD B KERN 314764

LINE 1
SECTION 137138
DATE TIME 91022710
STATE/MAH "MY LIN"
TEMP IN "F"
ROD d 0
ROD CM UNIT 0.5
SKY,WIND(t,V) "1 S2"
575.583
45932.43840
14334.11480
53590.85191
571.584
48414.38340
13451.11200
52713.79672
587.594
48100.45240
14245.11500
53585.87357
573.573
44242.41000
14031.10890
53290.83500
575.577
44736.41500
10845.13290
49302.83965
598.592
43864.42500
10882.12100
50137.83119
575.590
49015.48100
14211.13130
53462.88267
595.598
37489.36970
23700.23310
62951.76741
"Σ10" ***
168.100 ***
168.800 ***
2388.630 ***
2388.620 ***
0.337 ***
11.9431 ***
8 ***

Form 780513

FORWARD - (BACK) PAGE ____

FROM BM 33 TJS 138 TO BM 32 TJS to 137

EMDIR

138137 D103
137136 D103
136135 D119
133134 D111
134135 D103
51 ***

LEVEL HI002 468673
ROD A KERN 314765
ROD B KERN 314764

LINE 1
SECTION 138137
DATE TIME 91022509
STATE/MAH "NV LIN"
TEMP IN "F"
ROD d 0
ROD CM UNIT 0.5
SKY,WIND(↑,V) "0 S2"
528.526
15381.14320
48288.47180
87541.54552
527.557
14399.11010
42227.38800
81492.53662
534.550
23179.28890
44248.41920
83584.62438
535.545
25458.22780
45174.42500
84431.64719
552.568
16072.13310
47131.44500
86390.55329
556.573
13081.10300
45134.42310
84391.52258
540.559
11536.10300
45373.44260
84627.50790
532.558
10261.11690
50499.49020
89751.49517
"Σ10" ***
172.600 ***
171.100 ***
-2388.670 ***
-2388.620 ***
0.344 ***
-11.9432 ***
8 ***

Form 780513

FORWARD - BACK PAGE ____

FROM BM 33TJS 138 TO BM 34TJS to 137

LEVEL N1082 468673
ROD A KERN 314765
ROD B KERN 314764

LINE 1
SECTION 138139
DATE TIME 91022711
STATE/MAH "NV LIN"
TEMP IN "F"
ROD d 0
ROD CM UNIT 0.5
SKY,WIND(t,V) "1 S10"

593.684	624.632	
46563.43720	47625.45410	
25388.22350	12881.10750	
64565.85820	52859.86884	
582.586	681.614	
37726.35100	45748.43580	
31767.29380	12848.10780	
71826.76988	52186.85809	
576.583	599.684	
46588.44330	48898.39280	
33789.31480	15661.14810	
72978.85765	54914.79345	
589.592	594.598	
38988.28900	49511.48680	
34484.32510	15492.14580	
73741.78240	54744.88762	
593.686	577.585	
14776.12690	27294.26980	
41551.39380	22356.22810	
88812.54033	61686.66544	
682.598	"Σ10" ***	
37418.34390	294.880 ***	
10818.12890	294.880 ***	
49288.76683	2695.970 ***	
590.681	2695.950 ***	
45694.42710	8.589 ***	
15238.12280	13.4798 ***	
54491.84953	14 ***	
585.686		
47864.45250		
11487.14890		
58751.87123		
618.620		
47665.44520		
13153.16210		
52418.86929		

Form 780513

FORWARD - BACK PAGE ____

FROM BM 34TJS 139 TO BM 33TJS 138

LEVEL NI002 460673
ROD A KERN 314765
ROD B KERN 314764

LINE 1
SECTION 139133
DATE TIME 91022615
STATE/MAN "HV LIN"
TEMP IN °F"
ROD d 0
ROD CM UNIT 0.5
SKY,WIND(t,V) "3.E-1 "
679.644
17552.16590
49498.48460
88744.56884
632.656
15238.14450
47396.46470
86649.54483
633.641
13613.11410
49931.47790
89192.52875
628.638
22602.28610
59371.37510
78629.61861
611.628
17431.15450
47993.45810
87255.56692
621.626
18762.17600
48270.39850
79522.58817
616.624
13620.11190
49852.46710
88311.52877
610.603
12709.11090
48273.46580
87530.51967
608.626
18032.15010
41602.38590
80863.57226
634.636
11393.14990
48856.45290
88124.50659
608.609
28321.25420
19958.17100
59223.67585
608.618
35265.32810
33724.31150
72985.74530
604.624
37603.34400
13769.10300
53030.76866
597.603
31079.29590
33119.31620
72378.78336
"Σ10" ***
295.600 ***
296.500 ***
-2695.920 ***
-2695.870 ***
0.592 ***
-13.4795 ***
14 ***

Form 780513

FORWARD - BACK PAGE ____

FROM BM 34TJS 139 TO BM 35TJS to 140

LEVEL HI002 468673
ROD A KERN 314765
ROD B KERN 314764

LINE 1
SECTION 139140
DATE TIME 91022713
STATE/MAN "HV LIN"
TEMP IN "F"
ROD d 0
ROD CM UNIT 0.5
SKY,WIND(t,V) "1 S5"

585.596
42684.48530
35358.33210
74604.81935
584.596
48886.45500
24951.22480
64208.87342
579.598
47297.45600
23858.22298
63104.86551
584.600
45867.42798
25847.23430
65102.84325
575.582
43837.41850
12458.18380
51715.83896
571.580
46261.44400
16396.14590
55647.85515
571.576
46110.44200
11772.13690
51827.85362
571.572
47839.45800
10673.12680
49924.97892
565.566
46319.44710
20123.18680
59373.85570
558.560
45420.43590
15975.14190
55226.84670
559.560
46263.44550
12411.18880
51664.85513
558.560
47693.45680
14218.12120
53461.86941
558.558
49533.47500
15374.13500
54625.88783
564.565
39532.38100
11853.10310
51101.78778
560.562
49582.47640
14193.12280
53441.88754
560.561
42618.40400
17376.14980
56628.81870
558.560
43285.41880
13115.11790
52368.82534
555.558
46687.45330
11883.10400
51852.85938
555.558
46472.45200
13572.12320
52821.85724
554.559
44793.44100
18580.18100
57831.84044
"Σ18" ***
349.380 ***
348.880 ***
5754.160 ***
5754.158 ***
0.697 ***
28.7780 ***
20 ***

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FROM BM 35 TJS 140 TO BM 34 TJS to 139

LEVEL HI002 460673
ROD A KERN 314765
ROD B KERN 314764

LINE 1
SECTION 140139
DATE TIME 91022614
STATE/MAH "NV LIN"
TEMP IN °F"
ROD d 0
ROD CM UNIT 0.5
SKY,WIND(t,V) "1 S5"

630.648
14664.14090
49292.48680
88543.53917
619.640
19814.18290
35741.35080
74994.58269
606.640
19549.18880
44846.44060
84899.59800
637.648
25835.24810
48195.47100
87449.65089
645.665
15382.13910
44518.43000
83779.54642
630.668
19720.17310
47018.44790
86283.58985
645.678
20236.19080
39386.33140
78641.59493
622.647
16600.15120
44829.43410
84088.55858
616.630
16695.15250
42800.41390
82059.55950

639.652
18219.16880
43230.41840
82488.57479
636.650
16779.14950
47046.45290
86305.56040
638.646
15860.13520
45576.43990
84833.54317
642.665
14348.12500
43543.41650
82805.53605
635.668
12843.10660
48508.46510
87765.52105
634.662
14810.12400
44469.42610
83728.53269
626.650
15969.14400
43828.42440
83084.55224
643.645
11155.13600
48911.46350
88171.50416
636.656
12059.10080
47280.45230
86548.51314
643.651
17557.15199
47090.44790
86352.56922
641.683
16373.14290
47015.44930
86277.55636

639.672
36744.34420
29828.26640
68269.76092
650.646
21996.20710
34035.32810
73293.61249
"Σ10" ***
343.680 ***
344.700 ***
-5753.810 ***
-5753.920 ***
0.688 ***
-28.7693 ***
22 ***

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FROM BM 35 TJS 140 TO BM 36 TJS 141

LEVEL NI002 460673
ROD A KERN 314765
ROD B KERN 314764

LINE 1
SECTION 140141
DATE TIME 91022715
STATE/MAN "NV LIN"
TEMP IN °F"
ROD d 0
ROD CM UNIT 0.5
SKY,WIND(t,V) "1 S5"

558.552	547.548
23528.22780	46444.44710
35858.34960	18755.17000
75107.62775	58001.85594
548.549	546.548
29382.27580	42972.41880
10106.11950	14252.13820
49355.68632	53501.82218
548.558	544.545
42833.40710	47431.46380
27642.26380	14368.13380
66892.81281	53617.86676
547.548	544.544
34983.33710	47419.46180
38324.37820	13556.12410
77574.74232	52301.86664
549.548	544.545
23584.22650	46988.46090
35363.34550	14678.13680
74613.62831	53924.86227
547.549	542.543
45984.43580	48780.47910
10285.12440	11762.10900
49538.85235	51011.88830
545.546	543.543
43344.41620	43321.43870
10535.16720	25217.24900
57786.82591	64465.82568
548.547	"Σ10" ***
45565.44130	198.900 ***
15995.14510	200.000 ***
55242.84814	3338.290 ***
558.558	3338.130 ***
42433.40750	0.399 ***
15658.14100	16.6911 ***
54907.81679	16 ***

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FROM BM 36 TJS 141 TO BM 35 TJS to 140

LEVEL NI802 460673
ROD A KERN 314765
ROD B KERN 314764

LINE 1
SECTION 141140
DATE TIME 91022611
STATE/MAN "NV LIN"
TEMP IN "F"
ROD d 0
ROD CM UNIT 0.5
SKY,WIND(t,V) "3.E-1 "
639.656
13885.11540
48008.46620
87263.52341
615.634
13397.12320
45040.44110
84293.52652
622.642
15400.13650
49066.47090
88325.54656
629.637
12163.10490
46239.44500
85499.51423
618.620
11300.13300
44351.42250
83613.50560
636.659
16879.13500
47918.45310
87183.55340
641.658
14660.17260
48285.45530
87551.53921
635.635
14318.13526
41785.41030
81038.53570
664.644
13573.10600
49735.46899
88995.52831
648.677
19606.17590
28536.26550
67854.58366
634.644
26816.25820
48828.47730
88080.66070
656.698
22586.22100
28932.28550
68183.61835
"Σ10" ***
208.300 ***
199.400 ***
-3338.000 ***
-3333.120 ***
0.400 ***
-16.6903 ***
12 ***

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