



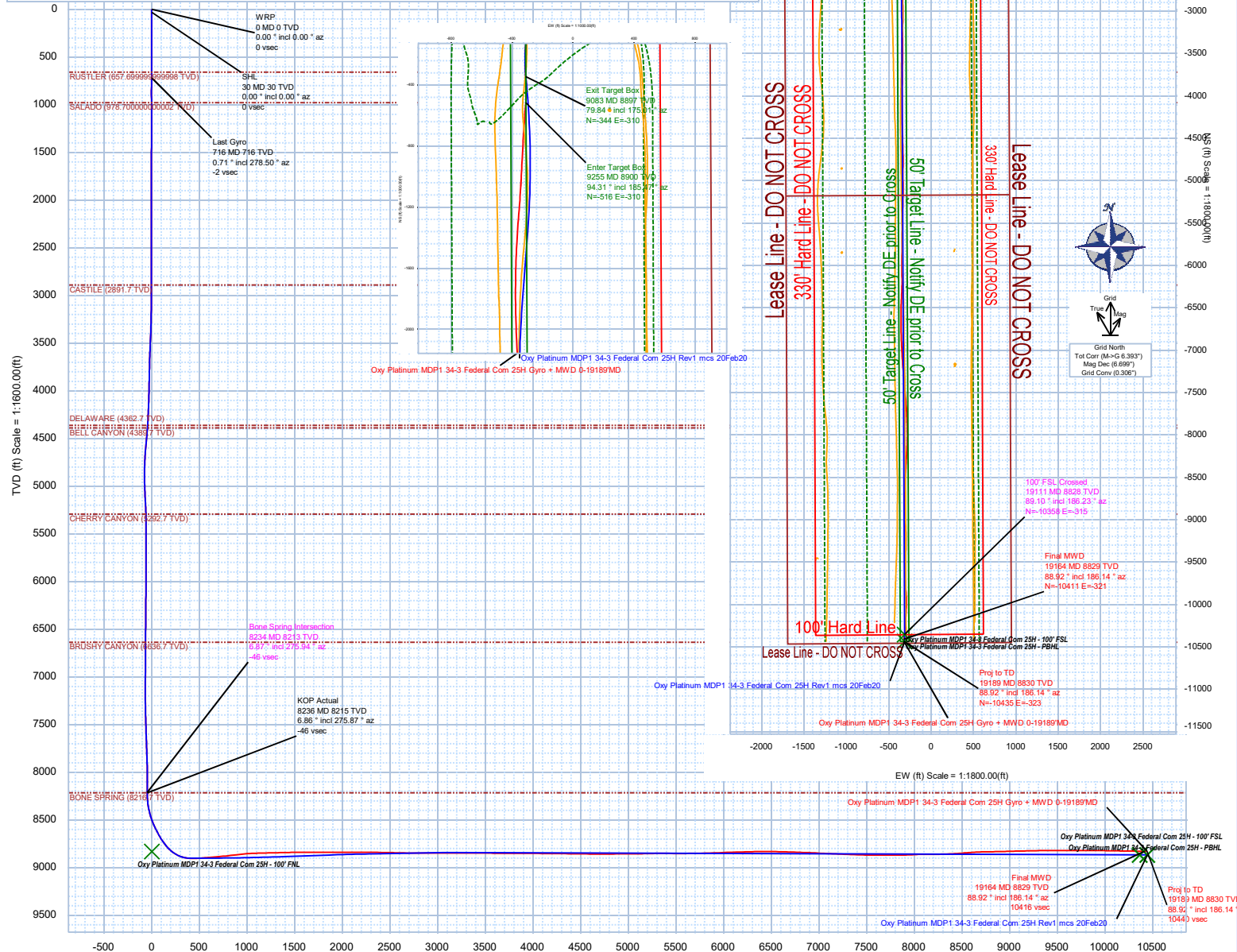
OXY



| Borehole:         | Well:                                  | Field:                  | Structure:                             |
|-------------------|----------------------------------------|-------------------------|----------------------------------------|
| Original Borehole | Oxy Platinum MDP1 34-3 Federal Com 25H | NM Eddy County (NAD 83) | Oxy Platinum MDP1 34-3 Federal Com 25H |

| Gravity & Magnetic Parameters |        |      |           | Surface Location |                            |      |                | Miscellaneous                                                     |              |             |            |
|-------------------------------|--------|------|-----------|------------------|----------------------------|------|----------------|-------------------------------------------------------------------|--------------|-------------|------------|
| Model:                        | IFR1   | Dip: | 5993°     | Date:            | 31-Jan-2020                | Lat: | N 32 16 4.39   | Northing:                                                         | 461663.368US | Grid Conv:  | 0.3061°    |
| MagDec:                       | 6.699° | FS:  | 47900.8nT | Gravity FS:      | 998.446mgn (9.80665 Based) | Lon: | W 103 45 36.10 | Easting:                                                          | 718537.858US | Scale Fact: | 0.99994505 |
|                               |        |      |           |                  |                            |      |                | Oxy Platinum MDP1 34-3 Federal Com 25H                            |              |             |            |
|                               |        |      |           |                  |                            |      |                | TVD Ref: RKB = 30(3472.7ft above MSL)                             |              |             |            |
|                               |        |      |           |                  |                            |      |                | Plan: Oxy Platinum MDP1 34-3 Federal Com 25H Gyro + MWD 0-19189MD |              |             |            |

| Critical Points          |          |       |        |         |          |           |           |       |
|--------------------------|----------|-------|--------|---------|----------|-----------|-----------|-------|
| Critical Point           | MD       | INCL  | AZIM   | TVD     | VSEC     | N(+)/S(-) | E(+)/W(-) | DLS   |
| WRP                      | 0.00     | 0.00  | 0.00   | 0.00    | 0.00     | 0.00      | 0.00      |       |
| SHL                      | 30.00    | 0.00  | 0.00   | 30.00   | 0.00     | 0.00      | 0.00      |       |
| Last Gyro                | 716.01   | 0.71  | 278.50 | 715.99  | -1.91    | 2.04      | -4.11     | 0.12  |
| Bone Spring Intersection | 8234.04  | 6.87  | 275.94 | 8213.20 | -46.40   | 54.35     | -264.75   | 0.87  |
| KOP Actual               | 8236.00  | 6.86  | 275.87 | 8215.15 | -46.42   | 54.37     | -264.98   | 0.87  |
| 100' FNL Crossed         | 8526.00  | 20.08 | 194.76 | 8498.20 | 0.78     | 8.09      | -296.55   | 8.59  |
| Exit Target Box          | 9083.00  | 79.84 | 175.01 | 8897.41 | 353.58   | -344.45   | -310.41   | 15.82 |
| Enter Target Box         | 9255.00  | 94.31 | 185.47 | 8899.62 | 524.66   | -515.63   | -309.59   | 2.81  |
| 100' FSL Crossed         | 19111.00 | 89.10 | 186.23 | 8828.43 | 10362.68 | -10357.90 | -314.87   | 0.47  |
| Final MWD                | 19164.00 | 88.92 | 186.14 | 8829.30 | 10415.51 | -10410.58 | -320.55   | 0.66  |
| Proj to TD               | 19189.00 | 88.92 | 186.14 | 8829.78 | 10440.44 | -10435.44 | -323.22   | 0.00  |



Vertical Section (ft) Azim = 181.71° Scale = 1:1600.00(ft) Origin = 0N/-S, 0E/-W

# Oxy Platinum MDP1 34-3 Federal Com 25H Gyro + MWD 0-19189'MD

## Survey Geodetic Report

(Def Survey)



**Report Date:** February 25, 2020 - 01:16 PM  
**Client:** OXY  
**Field:** NM Eddy County (NAD 83)  
**Structure / Slot:** Oxy Platinum MDP1 34-3 Federal Com 25H / Oxy Platinum MDP1 34-3 Federal Com 25H  
**Well:** Oxy Platinum MDP1 34-3 Federal Com 25H  
**Borehole:** Original Borehole  
**UWI / API#:** Unknown / 30-015-46558  
**Survey Name:** Oxy Platinum MDP1 34-3 Federal Com 25H Gyro + MWD 0-19189'MD  
**Survey Date:** January 31, 2020  
**Tort / AHD / DDI / ERD Ratio:** 312.937 ° / 10849.621 ft / 6.864 / 1.219  
**Coordinate Reference System:** NAD83 New Mexico State Plane, Eastern Zone, US Feet  
**Location Lat / Long:** N 32° 16' 4.39038", W 103° 45' 36.10184"  
**Location Grid N/E Y/X:** N 461663.360 ftUS, E 718537.850 ftUS  
**CRS Grid Convergence Angle:** 0.3061 °  
**Grid Scale Factor:** 0.99994505  
**Version / Patch:** 2.10.782.0

**Survey / DLS Computation:** Minimum Curvature / Lubinski  
**Vertical Section Azimuth:** 181.714 ° (Grid North)  
**Vertical Section Origin:** 0.000 ft, 0.000 ft  
**TVD Reference Datum:** RKB = 30  
**TVD Reference Elevation:** 3472.700 ft above MSL  
**Seabed / Ground Elevation:** 3442.700 ft above MSL  
**Magnetic Declination:** 6.699 °  
**Total Gravity Field Strength:** 998.4462mgn (9.80665 Based)  
**Gravity Model:** GARM  
**Total Magnetic Field Strength:** 47900.800 nT  
**Magnetic Dip Angle:** 5993.000 °  
**Declination Date:** January 31, 2020  
**Magnetic Declination Model:** IFR1  
**North Reference:** Grid North  
**Grid Convergence Used:** 0.3061 °  
**Total Corr Mag North->Grid North:** 6.3929 °  
**Local Coord Referenced To:** Well Head

| Comments  | MD<br>(ft) | Incl<br>(°) | Azim Grid<br>(°) | TVD<br>(ft) | VSEC<br>(ft) | NS<br>(ft) | EW<br>(ft) | DLS<br>(°/100ft) | Northing<br>(ftUS) | Easting<br>(ftUS) | Latitude<br>(N/S ° ' ") | Longitude<br>(E/W ° ' ") |
|-----------|------------|-------------|------------------|-------------|--------------|------------|------------|------------------|--------------------|-------------------|-------------------------|--------------------------|
| WRP       | 0.00       | 0.00        | 0.00             | 0.00        | 0.00         | 0.00       | 0.00       | N/A              | 461663.36          | 718537.85         | N 32 16                 | 4.39 W 103 45 36.10      |
| SHL       | 30.00      | 0.00        | 0.00             | 30.00       | 0.00         | 0.00       | 0.00       | 0.00             | 461663.36          | 718537.85         | N 32 16                 | 4.39 W 103 45 36.10      |
|           | 107.18     | 0.47        | 342.43           | 107.18      | -0.30        | 0.30       | -0.10      | 0.61             | 461663.66          | 718537.75         | N 32 16                 | 4.39 W 103 45 36.10      |
|           | 136.01     | 0.42        | 346.20           | 136.01      | -0.51        | 0.52       | -0.16      | 0.20             | 461663.88          | 718537.69         | N 32 16                 | 4.40 W 103 45 36.10      |
|           | 165.03     | 0.37        | 347.20           | 165.03      | -0.71        | 0.71       | -0.20      | 0.17             | 461664.07          | 718537.65         | N 32 16                 | 4.40 W 103 45 36.10      |
|           | 194.28     | 0.28        | 331.57           | 194.28      | -0.86        | 0.87       | -0.26      | 0.43             | 461664.23          | 718537.59         | N 32 16                 | 4.40 W 103 45 36.10      |
|           | 223.24     | 0.30        | 302.25           | 223.24      | -0.96        | 0.97       | -0.36      | 0.51             | 461664.33          | 718537.49         | N 32 16                 | 4.40 W 103 45 36.11      |
|           | 248.20     | 0.32        | 304.36           | 248.20      | -1.03        | 1.04       | -0.47      | 0.09             | 461664.40          | 718537.38         | N 32 16                 | 4.40 W 103 45 36.11      |
|           | 276.30     | 0.35        | 313.79           | 276.30      | -1.13        | 1.15       | -0.59      | 0.22             | 461664.51          | 718537.26         | N 32 16                 | 4.40 W 103 45 36.11      |
|           | 307.78     | 0.30        | 321.37           | 307.78      | -1.26        | 1.28       | -0.72      | 0.21             | 461664.64          | 718537.13         | N 32 16                 | 4.40 W 103 45 36.11      |
|           | 339.33     | 0.36        | 299.71           | 339.32      | -1.37        | 1.39       | -0.85      | 0.44             | 461664.75          | 718537.00         | N 32 16                 | 4.40 W 103 45 36.11      |
|           | 370.80     | 0.41        | 292.14           | 370.79      | -1.45        | 1.48       | -1.04      | 0.23             | 461664.84          | 718536.81         | N 32 16                 | 4.41 W 103 45 36.11      |
|           | 402.30     | 0.37        | 289.89           | 402.29      | -1.52        | 1.56       | -1.24      | 0.14             | 461664.92          | 718536.61         | N 32 16                 | 4.41 W 103 45 36.12      |
|           | 433.81     | 0.42        | 279.11           | 433.80      | -1.57        | 1.61       | -1.45      | 0.28             | 461664.97          | 718536.40         | N 32 16                 | 4.41 W 103 45 36.12      |
|           | 465.32     | 0.45        | 279.13           | 465.31      | -1.60        | 1.65       | -1.69      | 0.10             | 461665.01          | 718536.16         | N 32 16                 | 4.41 W 103 45 36.12      |
|           | 496.83     | 0.48        | 281.19           | 496.82      | -1.64        | 1.70       | -1.94      | 0.11             | 461665.06          | 718535.91         | N 32 16                 | 4.41 W 103 45 36.12      |
|           | 528.35     | 0.48        | 280.41           | 528.34      | -1.68        | 1.75       | -2.20      | 0.02             | 461665.11          | 718535.65         | N 32 16                 | 4.41 W 103 45 36.13      |
|           | 559.85     | 0.50        | 278.94           | 559.84      | -1.72        | 1.79       | -2.47      | 0.07             | 461665.15          | 718535.38         | N 32 16                 | 4.41 W 103 45 36.13      |
|           | 591.37     | 0.52        | 278.63           | 591.36      | -1.75        | 1.83       | -2.74      | 0.06             | 461665.19          | 718535.11         | N 32 16                 | 4.41 W 103 45 36.13      |
|           | 622.89     | 0.56        | 281.00           | 622.88      | -1.79        | 1.88       | -3.04      | 0.15             | 461665.24          | 718534.81         | N 32 16                 | 4.41 W 103 45 36.14      |
|           | 654.42     | 0.68        | 278.46           | 654.40      | -1.84        | 1.94       | -3.37      | 0.39             | 461665.30          | 718534.48         | N 32 16                 | 4.41 W 103 45 36.14      |
| Last Gyro | 685.92     | 0.69        | 276.05           | 685.90      | -1.88        | 1.99       | -3.75      | 0.10             | 461665.35          | 718534.10         | N 32 16                 | 4.41 W 103 45 36.15      |
|           | 716.01     | 0.71        | 278.50           | 715.99      | -1.91        | 2.04       | -4.11      | 0.12             | 461665.40          | 718533.74         | N 32 16                 | 4.41 W 103 45 36.15      |
|           | 854.00     | 0.05        | 61.79            | 853.98      | -2.04        | 2.19       | -4.90      | 0.54             | 461665.55          | 718532.95         | N 32 16                 | 4.41 W 103 45 36.16      |
|           | 945.00     | 0.11        | 235.76           | 944.98      | -2.01        | 2.16       | -4.94      | 0.18             | 461665.52          | 718532.91         | N 32 16                 | 4.41 W 103 45 36.16      |
|           | 1036.00    | 0.12        | 275.22           | 1035.98     | -1.97        | 2.12       | -5.11      | 0.09             | 461665.48          | 718532.74         | N 32 16                 | 4.41 W 103 45 36.16      |
|           | 1127.00    | 0.11        | 204.77           | 1126.98     | -1.89        | 2.05       | -5.24      | 0.15             | 461665.41          | 718532.61         | N 32 16                 | 4.41 W 103 45 36.16      |
|           | 1218.00    | 0.12        | 330.36           | 1217.98     | -1.89        | 2.05       | -5.32      | 0.22             | 461665.41          | 718532.53         | N 32 16                 | 4.41 W 103 45 36.16      |
|           | 1309.00    | 0.12        | 259.67           | 1308.98     | -1.95        | 2.12       | -5.46      | 0.15             | 461665.48          | 718532.39         | N 32 16                 | 4.41 W 103 45 36.17      |
|           | 1399.00    | 0.17        | 290.73           | 1398.98     | -1.98        | 2.15       | -5.68      | 0.10             | 461665.51          | 718532.17         | N 32 16                 | 4.41 W 103 45 36.17      |
|           | 1493.00    | 0.11        | 331.32           | 1492.98     | -2.10        | 2.28       | -5.85      | 0.12             | 461665.64          | 718532.00         | N 32 16                 | 4.41 W 103 45 36.17      |
|           | 1588.00    | 0.12        | 32.35            | 1587.97     | -2.27        | 2.44       | -5.85      | 0.12             | 461665.80          | 718532.01         | N 32 16                 | 4.41 W 103 45 36.17      |
|           | 1683.00    | 0.12        | 303.09           | 1682.97     | -2.40        | 2.58       | -5.88      | 0.18             | 461665.94          | 718531.98         | N 32 16                 | 4.42 W 103 45 36.17      |
|           | 1778.00    | 0.19        | 308.12           | 1777.97     | -2.55        | 2.73       | -6.08      | 0.07             | 461666.09          | 718531.77         | N 32 16                 | 4.42 W 103 45 36.17      |
|           | 1872.00    | 0.12        | 72.14            | 1871.97     | -2.67        | 2.86       | -6.11      | 0.29             | 461666.22          | 718531.74         | N 32 16                 | 4.42 W 103 45 36.17      |
|           | 1967.00    | 0.17        | 52.89            | 1966.97     | -2.80        | 2.97       | -5.90      | 0.07             | 461666.33          | 718531.95         | N 32 16                 | 4.42 W 103 45 36.17      |
|           | 2061.00    | 0.12        | 151.83           | 2060.97     | -2.80        | 2.97       | -5.75      | 0.24             | 461666.33          | 718532.10         | N 32 16                 | 4.42 W 103 45 36.17      |
|           | 2156.00    | 0.12        | 280.65           | 2155.97     | -2.73        | 2.90       | -5.80      | 0.23             | 461666.26          | 718532.05         | N 32 16                 | 4.42 W 103 45 36.17      |
|           | 2250.00    | 0.11        | 293.22           | 2249.97     | -2.77        | 2.96       | -5.98      | 0.03             | 461666.31          | 718531.87         | N 32 16                 | 4.42 W 103 45 36.17      |
|           | 2345.00    | 0.07        | 131.99           | 2344.97     | -2.77        | 2.95       | -6.02      | 0.19             | 461666.31          | 718531.83         | N 32 16                 | 4.42 W 103 45 36.17      |
|           | 2440.00    | 0.16        | 334.15           | 2439.97     | -2.85        | 3.03       | -6.03      | 0.24             | 461666.39          | 718531.82         | N 32 16                 | 4.42 W 103 45 36.17      |
|           | 2534.00    | 0.12        | 348.80           | 2533.97     | -3.06        | 3.25       | -6.11      | 0.06             | 461666.61          | 718531.74         | N 32 16                 | 4.42 W 103 45 36.17      |
|           | 2629.00    | 0.11        | 9.85             | 2628.97     | -3.25        | 3.43       | -6.11      | 0.05             | 461666.79          | 718531.74         | N 32 16                 | 4.42 W 103 45 36.17      |
|           | 2723.00    | 0.17        | 276.24           | 2722.97     | -3.35        | 3.54       | -6.24      | 0.22             | 461666.90          | 718531.61         | N 32 16                 | 4.43 W 103 45 36.17      |
|           | 2817.00    | 0.11        | 62.36            | 2816.97     | -3.41        | 3.60       | -6.29      | 0.29             | 461666.96          | 718531.56         | N 32 16                 | 4.43 W 103 45 36.17      |
|           | 2912.00    | 0.16        | 344.13           | 2911.97     | -3.58        | 3.77       | -6.25      | 0.18             | 461667.13          | 718531.60         | N 32 16                 | 4.43 W 103 45 36.17      |
|           | 3007.00    | 0.19        | 253.30           | 3006.97     | -3.65        | 3.85       | -6.44      | 0.26             | 461667.21          | 718531.41         | N 32 16                 | 4.43 W 103 45 36.18      |
|           | 3102.00    | 0.45        | 49.63            | 3101.97     | -3.85        | 4.04       | -6.30      | 0.66             | 461667.40          | 718531.55         | N 32 16                 | 4.43 W 103 45 36.18      |
|           | 3291.00    | 1.63        | 26.32            | 3290.94     | -6.80        | 6.93       | -4.55      | 0.65             | 461670.29          | 718533.30         | N 32 16                 | 4.46 W 103 45 36.15      |
|           | 3386.00    | 2.42        | 18.75            | 3385.88     | -9.94        | 10.05      | -3.30      | 0.88             | 461673.40          | 718534.55         | N 32 16                 | 4.49 W 103 45 36.14      |
|           | 3480.00    | 2.67        | 15.81            | 3479.78     | -13.96       | 14.03      | -2.07      | 0.30             | 461677.39          | 718535.78         | N 32 16                 | 4.53 W 103 45 36.13      |
|           | 3575.00    | 2.56        | 29.77            | 3574.69     | -17.98       | 18.00      | -0.41      | 0.68             | 461681.36          | 718537.44         | N 32 16                 | 4.57 W 103 45 36.11      |
|           | 3670.00    | 2.08        | 53.75            | 3669.61     | -20.91       | 20.86      | 2.03       | 1.13             | 461684.22          | 718539.88         | N 32 16                 | 4.60 W 103 45 36.08      |
|           | 3764.00    | 1.69        | 42.77            | 3763.56     | -23.01       | 22.89      | 4.35       | 0.56             | 461686.25          | 718542.20         | N 32 16                 | 4.62 W 103 45 36.05      |
|           | 3859.00    | 1.20        | 20.68            | 3858.53     | -25.01       | 24.85      | 5.65       | 0.77             | 461688.21          | 718543.50         | N 32 16                 | 4.64 W 103 45 36.03      |
|           | 3953.00    | 1.25        | 350.76           | 3952.51     | -26.94       | 26.78      | 5.83       | 0.67             | 461690.14          | 718543.68         | N 32 16                 | 4.66 W 103 45 36.03      |
|           | 4048.00    | 1.99        | 317.58           | 4047.47     | -29.14       | 29.02      | 4.56       | 1.23             | 461692.38          | 718542.41         | N 32 16                 | 4.68 W 103 45 36.05      |
|           | 4143.00    | 2.81        | 315.58           | 4142.39     | -31.94       | 31.90      | 1.81       | 0.87             | 461695.26          | 718539.66         | N 32 16                 | 4.71 W 103 45 36.08      |
|           | 4237.00    | 4.05        | 310.72           | 4236.22     | -35.63       | 35.71      | -2.32      | 1.35             | 461699.07          | 718535.53         | N 32 16                 | 4.74 W 103 45 36.13      |
|           | 4332.00    | 6.11        | 306.29           | 4330.84     | -40.61       | 40.90      | -8.93      | 2.21             | 461704.25          | 718528.92         | N 32 16                 | 4.80 W 103 45 36.20      |
|           | 4364.00    | 7.00        | 302.12           | 4362.63     | -42.56       | 42.94      | -11.96     | 3.15             | 461706.30          | 718525.89         | N 32 16                 | 4.82 W 103 45 36.24      |
|           | 4506.00    | 11.35       | 300.37           | 4502.78     | -53.65       | 54.61      | -31.35     | 3.07             | 461717.97          | 718506.50         | N 32 16                 | 4.93 W 103 45 36.46      |
|           | 4600.00    | 12.28       | 297.27           | 4594.79     | -62.40       | 63.87      | -48.22     | 1.20             | 461727.22          | 718489.63         | N 32 16                 | 5.02 W 103 45 36.66      |
|           | 4695.00    | 11.54       | 289.31           | 4687.75     | -69.63       | 71.64      | -66.17     | 1.89             | 461735.00          | 718471.69         | N 32 16                 | 5.10 W 103 45 36.87      |
|           | 4790.00    | 11.58       | 280.24           | 4780.83     | -73.91       | 76.48      | -84.52     | 1.91             | 461739.83          | 718453.33         | N 32 16                 | 5.15 W 103 45 37.08      |
|           | 4884.00    | 10.91       | 271.57           | 4873.03     | -75.29       | 78.40      | -102.70    | 1.93             | 461741.75          | 718435.16         | N 32 16                 | 5.17 W 103 45 37.29      |
|           | 4979.00    | 9.54        | 263.33           | 4966.53     | -74.12       | 77.73      | -119.51    | 2.11             | 461741.09          | 718418.35         | N 32 16                 | 5.17 W 103 45 37.49      |
|           | 5074.00    | 8.47        | 255.00           | 5060.36     | -70.96       | 75.00      | -134.08    | 1.77             | 461738.36          | 718403.77         | N 32 16                 | 5.14 W 103 45 37.66      |
|           | 5168.00    | 7.51        | 248.27           | 5153.45     | -66.53       | 70.94      | -146.48    | 1.42             | 461734.29          | 718391.38         | N 32 16                 | 5.10 W 103 45 37.80      |
|           | 5263.00    | 5.18        | 243.54           | 5247.86     | -62.03       | 66.73      | -156.09    | 2.51             | 461730.08          | 718381.77         | N 32 16                 | 5.06 W 103 45 37.92      |
|           | 5358.00    | 2.05        | 242.45           | 5342.66     | -59.17       | 64.03      | -161.43    | 3.30             | 461727.39          | 718376.43         | N 32 16                 | 5.03 W 103 45 37.98      |
|           | 5452.00    | 0.05        | 317.84           | 5436.64     | -58.38       | 63.28      | -162.95    | 2.17             | 461726.64          | 718374.91         | N 32 16                 | 5.03 W 103 45 38.00      |
|           | 5547.00    | 0.04        | 341.33           | 5531.64     | -58.44       | 63.35      | -162.99    | 0.02             | 461726.70          | 718374.87         | N 32 16                 | 5.03 W 103 45 38.00      |
|           | 5642.00    | 0.04        | 43.05            | 5626.64     | -58.50       | 63.40      | -162.98    | 0.04             | 461726.76          | 718374.88         | N 32 16                 | 5.03 W 103 45 38.00      |
|           | 5736.00    | 0.05        | 310.68           | 5720.64     | -58.55       | 63.45      | -162.99    | 0.07             | 461726.81          | 718374.87         | N 32 16                 | 5.03 W 103 45 38.00      |
|           | 5830.00    | 0.23        | 26.98            | 5814.64     | -58.75       | 63.65      | -1         |                  |                    |                   |                         |                          |

| Comments                                  | MD<br>(ft) | Incl<br>(°) | Azim Grid<br>(°) | TVD<br>(ft) | VSEC<br>(ft) | NS<br>(ft) | EW<br>(ft) | DLS<br>(°/100ft) | Northing<br>(ftUS) | Easting<br>(ftUS) | Latitude<br>(N/S ° ' ") | Longitude<br>(E/W ° ' ") |
|-------------------------------------------|------------|-------------|------------------|-------------|--------------|------------|------------|------------------|--------------------|-------------------|-------------------------|--------------------------|
|                                           | 6019.00    | 0.35        | 1.37             | 6003.64     | -59.68       | 64.57      | -162.75    | 0.08             | 461727.93          | 718375.11         | N 32 16 5.04 W          | 103 45 37.99             |
|                                           | 6114.00    | 0.37        | 1.42             | 6098.63     | -60.27       | 65.17      | -162.74    | 0.02             | 461728.53          | 718375.12         | N 32 16 5.04 W          | 103 45 37.99             |
|                                           | 6208.00    | 0.41        | 4.06             | 6192.63     | -60.91       | 65.81      | -162.71    | 0.05             | 461729.17          | 718375.15         | N 32 16 5.05 W          | 103 45 37.99             |
|                                           | 6303.00    | 0.43        | 1.93             | 6287.63     | -61.61       | 66.51      | -162.67    | 0.03             | 461729.86          | 718375.19         | N 32 16 5.06 W          | 103 45 37.99             |
|                                           | 6397.00    | 0.49        | 31.50            | 6381.63     | -62.31       | 67.20      | -162.45    | 0.26             | 461730.56          | 718375.41         | N 32 16 5.06 W          | 103 45 37.99             |
|                                           | 6492.00    | 0.49        | 21.40            | 6476.62     | -63.05       | 67.93      | -162.09    | 0.09             | 461731.28          | 718375.77         | N 32 16 5.07 W          | 103 45 37.99             |
|                                           | 6587.00    | 0.54        | 23.56            | 6571.62     | -63.84       | 68.71      | -161.76    | 0.06             | 461732.07          | 718376.10         | N 32 16 5.08 W          | 103 45 37.98             |
|                                           | 6681.00    | 0.36        | 24.38            | 6665.62     | -64.53       | 69.39      | -161.46    | 0.19             | 461732.74          | 718376.40         | N 32 16 5.09 W          | 103 45 37.98             |
|                                           | 6776.00    | 0.44        | 308.03           | 6760.61     | -65.02       | 69.89      | -161.63    | 0.52             | 461733.24          | 718376.23         | N 32 16 5.09 W          | 103 45 37.98             |
|                                           | 6870.00    | 0.63        | 296.44           | 6854.61     | -65.45       | 70.34      | -162.37    | 0.23             | 461733.69          | 718375.49         | N 32 16 5.09 W          | 103 45 37.99             |
|                                           | 6965.00    | 0.66        | 288.72           | 6949.60     | -65.83       | 70.75      | -163.36    | 0.10             | 461734.10          | 718374.50         | N 32 16 5.10 W          | 103 45 38.00             |
|                                           | 7060.00    | 0.83        | 283.24           | 7044.60     | -66.13       | 71.08      | -164.55    | 0.19             | 461734.44          | 718373.31         | N 32 16 5.10 W          | 103 45 38.01             |
|                                           | 7154.00    | 0.86        | 275.30           | 7138.59     | -66.31       | 71.30      | -165.91    | 0.13             | 461734.66          | 718371.95         | N 32 16 5.10 W          | 103 45 38.03             |
|                                           | 7258.00    | 2.81        | 268.30           | 7242.53     | -66.20       | 71.30      | -169.24    | 1.88             | 461734.65          | 718368.62         | N 32 16 5.10 W          | 103 45 38.07             |
|                                           | 7353.00    | 3.51        | 253.96           | 7337.38     | -65.18       | 70.42      | -174.36    | 1.11             | 461733.78          | 718363.50         | N 32 16 5.10 W          | 103 45 38.13             |
|                                           | 7448.00    | 4.15        | 248.58           | 7432.17     | -62.94       | 68.37      | -180.35    | 0.77             | 461731.72          | 718357.51         | N 32 16 5.08 W          | 103 45 38.20             |
|                                           | 7542.00    | 4.38        | 249.08           | 7525.91     | -60.22       | 65.84      | -186.87    | 0.25             | 461729.20          | 718350.99         | N 32 16 5.05 W          | 103 45 38.27             |
|                                           | 7637.00    | 4.91        | 248.50           | 7620.60     | -57.22       | 63.06      | -194.04    | 0.56             | 461726.41          | 718343.82         | N 32 16 5.02 W          | 103 45 38.36             |
|                                           | 7731.00    | 5.79        | 252.18           | 7714.19     | -54.05       | 60.13      | -202.30    | 1.00             | 461723.49          | 718335.56         | N 32 16 5.00 W          | 103 45 38.45             |
|                                           | 7826.00    | 7.69        | 257.15           | 7808.53     | -50.85       | 57.25      | -213.06    | 2.09             | 461720.61          | 718324.80         | N 32 16 4.97 W          | 103 45 38.58             |
|                                           | 7921.00    | 7.71        | 257.90           | 7902.67     | -47.73       | 54.50      | -225.49    | 0.11             | 461717.86          | 718312.37         | N 32 16 4.94 W          | 103 45 38.72             |
|                                           | 8015.00    | 7.32        | 263.84           | 7995.87     | -45.41       | 52.54      | -237.61    | 0.92             | 461715.89          | 718300.25         | N 32 16 4.92 W          | 103 45 38.87             |
|                                           | 8110.00    | 7.18        | 276.50           | 8090.11     | -45.07       | 52.56      | -249.53    | 1.68             | 461715.92          | 718288.34         | N 32 16 4.92 W          | 103 45 39.00             |
|                                           | 8205.00    | 7.09        | 277.01           | 8184.38     | -46.11       | 53.95      | -261.24    | 0.12             | 461717.30          | 718276.62         | N 32 16 4.94 W          | 103 45 39.14             |
| Bone Spring<br>Intersection<br>KOP Actual | 8234.04    | 6.87        | 275.94           | 8213.20     | -46.40       | 54.35      | -264.75    | 0.87             | 461717.70          | 718273.11         | N 32 16 4.94 W          | 103 45 39.18             |
|                                           | 8236.00    | 6.86        | 275.87           | 8215.15     | -46.42       | 54.37      | -264.98    | 0.87             | 461717.73          | 718272.88         | N 32 16 4.94 W          | 103 45 39.18             |
|                                           | 8287.00    | 6.40        | 247.29           | 8265.82     | -45.46       | 53.58      | -270.64    | 6.46             | 461716.94          | 718267.23         | N 32 16 4.93 W          | 103 45 39.25             |
|                                           | 8382.00    | 11.79       | 213.51           | 8359.65     | -35.01       | 43.43      | -280.89    | 7.76             | 461706.79          | 718256.97         | N 32 16 4.83 W          | 103 45 39.37             |
|                                           | 8476.00    | 16.70       | 203.22           | 8450.75     | -14.27       | 23.00      | -291.53    | 5.86             | 461686.36          | 718246.34         | N 32 16 4.63 W          | 103 45 39.50             |
| 100' FNL<br>Crossed                       | 8526.00    | 20.08       | 194.76           | 8498.20     | 0.78         | 8.09       | -296.55    | 8.59             | 461671.45          | 718241.32         | N 32 16 4.49 W          | 103 45 39.56             |
|                                           | 8571.00    | 23.37       | 189.26           | 8540.00     | 17.16        | -8.19      | -299.96    | 8.59             | 461655.17          | 718237.91         | N 32 16 4.33 W          | 103 45 39.60             |
|                                           | 8666.00    | 27.63       | 181.97           | 8625.75     | 57.90        | -48.84     | -303.75    | 5.56             | 461614.53          | 718234.12         | N 32 16 3.92 W          | 103 45 39.64             |
|                                           | 8760.00    | 32.53       | 184.62           | 8707.06     | 104.97       | -95.84     | -306.54    | 5.40             | 461567.52          | 718231.33         | N 32 16 3.46 W          | 103 45 39.68             |
|                                           | 8855.00    | 41.49       | 185.59           | 8782.85     | 161.99       | -152.74    | -311.67    | 9.45             | 461510.63          | 718226.20         | N 32 16 2.90 W          | 103 45 39.74             |
|                                           | 8898.00    | 46.78       | 182.96           | 8813.70     | 191.89       | -182.58    | -313.87    | 13.02            | 461480.79          | 718224.00         | N 32 16 2.60 W          | 103 45 39.77             |
|                                           | 8950.00    | 54.87       | 180.41           | 8846.53     | 232.16       | -222.84    | -315.00    | 16.01            | 461440.53          | 718222.87         | N 32 16 2.20 W          | 103 45 39.78             |
|                                           | 9044.00    | 72.42       | 177.20           | 8888.10     | 315.93       | -306.70    | -313.07    | 18.92            | 461356.68          | 718224.80         | N 32 16 1.37 W          | 103 45 39.77             |
|                                           | 9080.00    | 79.37       | 174.94           | 8896.87     | 350.65       | -341.51    | -310.67    | 20.24            | 461321.87          | 718227.20         | N 32 16 1.03 W          | 103 45 39.74             |
| Exit Target Box                           | 9083.00    | 79.84       | 175.01           | 8897.41     | 353.58       | -344.45    | -310.41    | 15.82            | 461318.93          | 718227.46         | N 32 16 1.00 W          | 103 45 39.74             |
|                                           | 9139.00    | 88.62       | 176.21           | 8903.04     | 408.93       | -399.95    | -306.15    | 15.82            | 461263.44          | 718231.72         | N 32 16 0.45 W          | 103 45 39.69             |
|                                           | 9234.00    | 93.72       | 185.53           | 8901.09     | 503.76       | -494.78    | -307.59    | 11.18            | 461168.61          | 718230.28         | N 32 15 59.51 W         | 103 45 39.71             |
| Enter Target<br>Box                       | 9255.00    | 94.31       | 185.47           | 8899.62     | 524.66       | -515.63    | -309.59    | 2.81             | 461147.76          | 718228.28         | N 32 15 59.30 W         | 103 45 39.74             |
|                                           | 9273.00    | 94.81       | 185.41           | 8898.19     | 542.57       | -533.49    | -311.29    | 2.81             | 461129.90          | 718226.58         | N 32 15 59.13 W         | 103 45 39.76             |
|                                           | 9343.00    | 94.69       | 183.67           | 8892.39     | 612.24       | -603.03    | -316.81    | 2.48             | 461060.36          | 718221.05         | N 32 15 58.44 W         | 103 45 39.83             |
|                                           | 9436.00    | 94.48       | 184.06           | 8884.96     | 704.88       | -695.52    | -323.06    | 0.48             | 460967.88          | 718214.81         | N 32 15 57.53 W         | 103 45 39.91             |
|                                           | 9528.00    | 96.22       | 183.00           | 8876.38     | 796.42       | -786.94    | -328.70    | 2.21             | 460876.46          | 718209.17         | N 32 15 56.62 W         | 103 45 39.98             |
|                                           | 9621.00    | 97.39       | 182.85           | 8865.36     | 888.75       | -879.17    | -333.42    | 1.27             | 460784.24          | 718204.45         | N 32 15 55.71 W         | 103 45 40.04             |
|                                           | 9713.00    | 94.67       | 182.83           | 8855.70     | 980.21       | -970.54    | -332.95    | 2.96             | 460692.88          | 718199.92         | N 32 15 54.80 W         | 103 45 40.10             |
|                                           | 9806.00    | 92.34       | 183.30           | 8850.01     | 1073.00      | -1063.22   | -337.91    | 2.56             | 460600.20          | 718194.96         | N 32 15 53.89 W         | 103 45 40.16             |
|                                           | 9898.00    | 91.19       | 184.00           | 8847.18     | 1164.91      | -1154.99   | -348.77    | 1.46             | 460508.43          | 718189.10         | N 32 15 52.98 W         | 103 45 40.24             |
|                                           | 9991.00    | 91.11       | 184.74           | 8845.31     | 1257.79      | -1247.70   | -355.85    | 0.80             | 460415.73          | 718182.02         | N 32 15 52.06 W         | 103 45 40.32             |
|                                           | 10082.00   | 91.28       | 183.90           | 8843.42     | 1348.67      | -1338.42   | -362.70    | 0.94             | 460325.01          | 718175.17         | N 32 15 51.17 W         | 103 45 40.41             |
|                                           | 10175.00   | 91.11       | 183.39           | 8841.48     | 1441.60      | -1431.21   | -368.62    | 0.58             | 460232.23          | 718169.26         | N 32 15 50.25 W         | 103 45 40.48             |
|                                           | 10267.00   | 90.75       | 181.97           | 8839.98     | 1533.57      | -1523.10   | -372.92    | 1.59             | 460140.35          | 718164.96         | N 32 15 49.34 W         | 103 45 40.54             |
|                                           | 10359.00   | 90.07       | 181.33           | 8839.32     | 1625.57      | -1615.06   | -375.56    | 1.01             | 460048.39          | 718162.31         | N 32 15 48.43 W         | 103 45 40.58             |
|                                           | 10452.00   | 89.75       | 180.59           | 8839.47     | 1718.56      | -1708.04   | -377.12    | 0.87             | 459955.41          | 718160.75         | N 32 15 47.51 W         | 103 45 40.60             |
|                                           | 10545.00   | 89.97       | 179.71           | 8839.70     | 1811.52      | -1801.04   | -377.37    | 0.98             | 459862.42          | 718160.50         | N 32 15 46.59 W         | 103 45 40.61             |
|                                           | 10638.00   | 90.19       | 178.54           | 8839.57     | 1904.43      | -1894.03   | -375.95    | 1.28             | 459769.44          | 718161.93         | N 32 15 45.67 W         | 103 45 40.60             |
|                                           | 10730.00   | 90.25       | 178.28           | 8839.22     | 1996.27      | -1985.99   | -373.39    | 0.29             | 459677.48          | 718164.48         | N 32 15 44.76 W         | 103 45 40.57             |
|                                           | 10822.00   | 90.01       | 177.21           | 8839.01     | 2088.05      | -2077.92   | -369.77    | 1.19             | 459585.56          | 718168.10         | N 32 15 43.85 W         | 103 45 40.54             |
|                                           | 10915.00   | 89.88       | 177.46           | 8839.10     | 2180.78      | -2170.82   | -365.45    | 0.30             | 459492.66          | 718172.42         | N 32 15 42.93 W         | 103 45 40.49             |
|                                           | 11008.00   | 89.47       | 177.99           | 8839.62     | 2273.55      | -2263.74   | -361.76    | 0.72             | 459399.74          | 718176.11         | N 32 15 42.01 W         | 103 45 40.46             |
|                                           | 11101.00   | 89.10       | 177.75           | 8840.78     | 2366.34      | -2356.67   | -358.30    | 0.47             | 459306.82          | 718179.57         | N 32 15 41.09 W         | 103 45 40.42             |
|                                           | 11193.00   | 89.61       | 177.77           | 8841.82     | 2458.11      | -2448.60   | -354.71    | 0.55             | 459214.90          | 718183.16         | N 32 15 40.18 W         | 103 45 40.38             |
|                                           | 11287.00   | 87.85       | 177.18           | 8843.90     | 2551.83      | -2542.48   | -350.57    | 1.97             | 459121.03          | 718187.30         | N 32 15 39.25 W         | 103 45 40.34             |
|                                           | 11380.00   | 89.41       | 177.21           | 8846.13     | 2644.51      | -2635.34   | -346.02    | 1.68             | 459028.17          | 718191.85         | N 32 15 38.33 W         | 103 45 40.30             |
|                                           | 11473.00   | 89.46       | 177.65           | 8847.04     | 2737.24      | -2728.24   | -341.85    | 0.48             | 458935.28          | 718196.02         | N 32 15 37.41 W         | 103 45 40.25             |
|                                           | 11566.00   | 89.21       | 178.24           | 8848.12     | 2830.03      | -2821.17   | -338.51    | 0.69             | 458842.35          | 718199.36         | N 32 15 36.49 W         | 103 45 40.22             |
|                                           | 11658.00   | 89.73       | 177.95           | 8848.97     | 2921.85      | -2913.12   | -335.45    | 0.65             | 458750.41          | 718202.42         | N 32 15 35.58 W         | 103 45 40.19             |
|                                           | 11750.00   | 91.15       | 180.47           | 8848.27     | 3013.75      | -3005.10   | -334.19    | 3.14             | 458658.44          | 718203.68         | N 32 15 34.67 W         | 103 45 40.18             |
|                                           | 11845.00   | 90.17       | 180.45           | 8847.17     | 3108.72      | -3100.09   | -334.95    | 1.03             | 458563.45          | 718202.92         | N 32 15 33.73 W         | 103 45 40.20             |
|                                           | 11939.00   | 89.99       | 181.08           | 8847.04     | 3202.70      | -3194.08   | -336.20    | 0.70             | 458469.47          | 718201.67         | N 32 15 32.80 W         | 103 45 40.22             |
|                                           | 12034.00   | 89.66       | 180.39           | 8847.33     | 3297.69      | -3289.07   | -337.42    | 0.81             | 458374.48          | 718200.45         | N 32 15 31.86 W         | 103 45 40.24             |
|                                           | 12128.00   | 89.54       | 180.07           | 8847.99     | 3391.65      | -3383.06   | -337.80    | 0.36             | 458280.49          | 718200.07         | N 32 15 30.93 W         | 103 45 40.25             |
|                                           | 12223.00   | 90.25       | 179.83           | 8848.16     | 3486.61      | -3478.06   | -337.72    | 0.79             | 458185.49          | 718200.15         | N 32 15 29.99 W         | 103 45 40.25             |
|                                           | 12318.00   | 88.23       | 180.36           | 8849.42     | 3581.56      | -3573.05   | -337.87    | 2.20             | 458090.51          | 718200.00         | N 32 15 29.05 W         | 103 45 40.26             |
|                                           | 12411.00   | 90.63       | 180.69           | 8850.35     | 3674.52      | -3666.03   | -338.73    | 2.60             | 457997.53          | 718199.14         | N 32 15 28.13 W         | 103 45                   |

| Comments            | MD<br>(ft) | Incl<br>(°) | Azim Grid<br>(°) | TVD<br>(ft) | VSEC<br>(ft) | NS<br>(ft) | EW<br>(ft) | DLS<br>(°/100ft) | Northing<br>(ftUS) | Easting<br>(ftUS) | Latitude<br>(N/S ° ' ") | Longitude<br>(E/W ° ' ") |
|---------------------|------------|-------------|------------------|-------------|--------------|------------|------------|------------------|--------------------|-------------------|-------------------------|--------------------------|
|                     | 15442.00   | 88.08       | 179.29           | 8836.86     | 6703.65      | -6696.01   | -355.67    | 1.53             | 454967.73          | 718182.20         | N 32 14 58.15           | W 103 45 40.66           |
|                     | 15537.00   | 87.81       | 178.46           | 8840.27     | 6798.48      | -6790.93   | -353.81    | 0.92             | 454872.81          | 718184.06         | N 32 14 57.21           | W 103 45 40.64           |
|                     | 15631.00   | 88.08       | 178.02           | 8843.64     | 6892.24      | -6884.83   | -350.93    | 0.55             | 454778.93          | 718186.94         | N 32 14 56.28           | W 103 45 40.62           |
|                     | 15726.00   | 87.08       | 177.41           | 8847.65     | 6986.93      | -6979.66   | -347.14    | 1.23             | 454684.09          | 718190.73         | N 32 14 55.35           | W 103 45 40.58           |
|                     | 15821.00   | 87.62       | 176.59           | 8852.04     | 7081.50      | -7074.43   | -342.17    | 1.03             | 454589.33          | 718195.70         | N 32 14 54.41           | W 103 45 40.53           |
|                     | 15915.00   | 87.57       | 175.84           | 8855.99     | 7174.99      | -7168.14   | -335.97    | 0.80             | 454495.62          | 718201.89         | N 32 14 53.48           | W 103 45 40.46           |
|                     | 16010.00   | 87.12       | 175.25           | 8860.39     | 7269.33      | -7262.75   | -328.60    | 0.78             | 454401.02          | 718209.27         | N 32 14 52.54           | W 103 45 40.38           |
|                     | 16105.00   | 88.27       | 174.92           | 8864.21     | 7363.62      | -7357.33   | -320.47    | 1.26             | 454306.45          | 718217.40         | N 32 14 51.61           | W 103 45 40.29           |
|                     | 16200.00   | 88.04       | 174.79           | 8867.27     | 7457.89      | -7451.89   | -311.96    | 0.28             | 454211.89          | 718225.91         | N 32 14 50.67           | W 103 45 40.20           |
|                     | 16389.00   | 90.72       | 175.80           | 8869.31     | 7645.68      | -7640.23   | -296.46    | 1.52             | 454023.57          | 718241.41         | N 32 14 48.81           | W 103 45 40.03           |
|                     | 16484.00   | 88.93       | 176.42           | 8869.60     | 7740.22      | -7735.00   | -290.01    | 1.99             | 453928.80          | 718247.86         | N 32 14 47.87           | W 103 45 39.96           |
|                     | 16579.00   | 90.73       | 177.92           | 8869.88     | 7834.91      | -7829.88   | -285.32    | 2.47             | 453833.92          | 718252.54         | N 32 14 46.93           | W 103 45 39.91           |
|                     | 16673.00   | 92.42       | 178.41           | 8867.30     | 7928.69      | -7923.79   | -282.31    | 1.87             | 453740.02          | 718255.55         | N 32 14 46.00           | W 103 45 39.88           |
|                     | 16768.00   | 92.66       | 180.24           | 8863.09     | 8023.51      | -8018.69   | -281.19    | 1.94             | 453645.13          | 718256.67         | N 32 14 45.06           | W 103 45 39.87           |
|                     | 16862.00   | 89.69       | 182.58           | 8861.16     | 8117.47      | -8112.62   | -283.51    | 4.02             | 453551.20          | 718254.36         | N 32 14 44.13           | W 103 45 39.91           |
|                     | 16957.00   | 90.28       | 182.81           | 8861.19     | 8212.46      | -8207.52   | -287.97    | 0.67             | 453456.31          | 718249.89         | N 32 14 43.19           | W 103 45 39.97           |
|                     | 17051.00   | 92.69       | 183.70           | 8858.75     | 8306.39      | -8301.33   | -293.31    | 2.73             | 453362.51          | 718244.56         | N 32 14 42.26           | W 103 45 40.03           |
|                     | 17146.00   | 92.39       | 183.22           | 8854.54     | 8401.25      | -8396.06   | -299.04    | 0.60             | 453267.78          | 718238.83         | N 32 14 41.33           | W 103 45 40.11           |
|                     | 17241.00   | 94.16       | 183.48           | 8849.11     | 8496.05      | -8490.74   | -304.58    | 1.88             | 453173.10          | 718233.29         | N 32 14 40.39           | W 103 45 40.18           |
|                     | 17336.00   | 94.45       | 179.72           | 8841.98     | 8590.77      | -8585.42   | -307.22    | 3.96             | 453078.43          | 718230.64         | N 32 14 39.45           | W 103 45 40.21           |
|                     | 17431.00   | 92.49       | 181.90           | 8836.23     | 8685.57      | -8680.22   | -308.57    | 3.08             | 452983.63          | 718229.30         | N 32 14 38.52           | W 103 45 40.23           |
|                     | 17525.00   | 90.55       | 181.17           | 8833.74     | 8779.53      | -8774.15   | -311.08    | 2.20             | 452889.71          | 718226.78         | N 32 14 37.59           | W 103 45 40.27           |
|                     | 17620.00   | 90.76       | 179.76           | 8832.65     | 8874.50      | -8869.14   | -311.85    | 1.50             | 452794.73          | 718226.01         | N 32 14 36.65           | W 103 45 40.28           |
|                     | 17715.00   | 92.11       | 175.65           | 8830.27     | 8969.21      | -8964.01   | -308.05    | 4.55             | 452699.86          | 718229.81         | N 32 14 35.71           | W 103 45 40.25           |
|                     | 17810.00   | 91.29       | 177.33           | 8827.45     | 9063.77      | -9058.79   | -302.24    | 1.97             | 452605.09          | 718235.63         | N 32 14 34.77           | W 103 45 40.18           |
|                     | 17904.00   | 91.46       | 178.23           | 8825.20     | 9157.52      | -9152.69   | -298.60    | 0.97             | 452511.19          | 718239.27         | N 32 14 33.84           | W 103 45 40.15           |
|                     | 17999.00   | 91.03       | 179.74           | 8823.13     | 9252.39      | -9247.65   | -296.92    | 1.65             | 452416.24          | 718240.95         | N 32 14 32.90           | W 103 45 40.13           |
|                     | 18188.00   | 89.77       | 184.99           | 8821.81     | 9441.30      | -9436.41   | -304.71    | 2.86             | 452227.48          | 718233.15         | N 32 14 31.03           | W 103 45 40.24           |
|                     | 18283.00   | 89.88       | 177.87           | 8822.10     | 9536.24      | -9531.32   | -307.08    | 7.50             | 452132.58          | 718230.78         | N 32 14 30.09           | W 103 45 40.27           |
|                     | 18378.00   | 89.85       | 181.05           | 8822.33     | 9631.16      | -9626.31   | -306.19    | 3.35             | 452037.60          | 718231.68         | N 32 14 29.15           | W 103 45 40.27           |
|                     | 18473.00   | 90.60       | 177.70           | 8821.95     | 9726.06      | -9721.28   | -305.15    | 3.61             | 451942.63          | 718232.72         | N 32 14 28.21           | W 103 45 40.26           |
|                     | 18567.00   | 90.27       | 175.17           | 8821.24     | 9819.65      | -9815.09   | -299.31    | 2.71             | 451848.83          | 718238.56         | N 32 14 27.29           | W 103 45 40.20           |
|                     | 18662.00   | 89.50       | 177.41           | 8821.43     | 9914.22      | -9909.89   | -293.16    | 2.49             | 451754.04          | 718244.71         | N 32 14 26.35           | W 103 45 40.13           |
|                     | 18756.00   | 88.97       | 181.13           | 8822.69     | 10008.11     | -10003.85  | -291.96    | 4.00             | 451660.08          | 718245.90         | N 32 14 25.42           | W 103 45 40.12           |
|                     | 18851.00   | 89.02       | 184.09           | 8824.35     | 10103.07     | -10098.73  | -296.29    | 3.12             | 451565.21          | 718241.58         | N 32 14 24.48           | W 103 45 40.18           |
|                     | 18946.00   | 89.16       | 181.15           | 8825.86     | 10198.04     | -10193.61  | -300.63    | 3.10             | 451470.33          | 718237.24         | N 32 14 23.54           | W 103 45 40.24           |
|                     | 19040.00   | 89.08       | 186.57           | 8827.31     | 10291.93     | -10287.35  | -306.95    | 5.77             | 451376.60          | 718230.91         | N 32 14 22.61           | W 103 45 40.32           |
| 100' FSL<br>Crossed | 19111.00   | 89.10       | 186.23           | 8828.43     | 10362.68     | -10357.90  | -314.87    | 0.47             | 451306.05          | 718223.00         | N 32 14 21.92           | W 103 45 40.41           |
|                     | 19135.00   | 89.11       | 186.12           | 8828.81     | 10386.60     | -10381.75  | -317.45    | 0.47             | 451282.20          | 718220.42         | N 32 14 21.68           | W 103 45 40.44           |
| Final MWD           | 19164.00   | 88.92       | 186.14           | 8829.30     | 10415.51     | -10410.58  | -320.55    | 0.66             | 451253.37          | 718217.32         | N 32 14 21.39           | W 103 45 40.48           |
| Proj to TD          | 19189.00   | 88.92       | 186.14           | 8829.78     | 10440.44     | -10435.44  | -323.22    | 0.00             | 451228.52          | 718214.65         | N 32 14 21.15           | W 103 45 40.51           |

Survey Type: Def Survey

Survey Error Model: ISCWSA Rev 3 \*\*\* 3-D 95.000% Confidence 2.7955 sigma  
Survey Program:

| Description | Part | MD From<br>(ft) | MD To<br>(ft) | EOU Freq<br>(ft) | Hole Size | Casing Diameter<br>(in) | Survey Tool Type          | Borehole / Survey                                                                      |
|-------------|------|-----------------|---------------|------------------|-----------|-------------------------|---------------------------|----------------------------------------------------------------------------------------|
|             | 1    | 0.000           | 30.000        | 1/98.425         | 26.400    | 26.400                  | GYD_GC+DROP+OH-Depth Only | Original Borehole / Oxy Platinum<br>MDP1 34-3 Federal Com 25H<br>Gyro + MWD 0-19189'MD |
|             | 1    | 30.000          | 30.000        | Act Stns         | 26.400    | 26.400                  | GYD_GC+DROP+OH-Depth Only | Original Borehole / Oxy Platinum<br>MDP1 34-3 Federal Com 25H<br>Gyro + MWD 0-19189'MD |
|             | 1    | 30.000          | 716.010       | Act Stns         | 26.400    | 26.400                  | GYD_GC+DROP+OH            | Original Borehole / Oxy Platinum<br>MDP1 34-3 Federal Com 25H<br>Gyro + MWD 0-19189'MD |
|             | 1    | 716.010         | 8236.000      | Act Stns         | 26.400    | 26.400                  | A010Mb_MWD+IFR1+SAG+MS    | Original Borehole / Oxy Platinum<br>MDP1 34-3 Federal Com 25H<br>Gyro + MWD 0-19189'MD |
|             | 1    | 8236.000        | 8760.000      | Act Stns         | 26.400    | 26.400                  | B001Mb_MWD+HRGM           | Original Borehole / Oxy Platinum<br>MDP1 34-3 Federal Com 25H                          |
|             | 1    | 8760.000        | 9080.000      | Act Stns         | 26.400    | 26.400                  | A010Mb_MWD+IFR1+SAG+MS    | Original Borehole / Oxy Platinum<br>MDP1 34-3 Federal Com 25H<br>Gyro + MWD 0-19189'MD |
|             | 1    | 9080.000        | 9273.000      | Act Stns         | 26.400    | 26.400                  | B001Mb_MWD+HRGM           | Original Borehole / Oxy Platinum<br>MDP1 34-3 Federal Com 25H                          |
|             | 1    | 9273.000        | 19189.000     | Act Stns         | 26.400    | 26.400                  | A010Mb_MWD+IFR1+SAG+MS    | Original Borehole / Oxy Platinum<br>MDP1 34-3 Federal Com 25H<br>Gyro + MWD 0-19189'MD |

...Original Borehole\Oxy Platinum MDP1 34-3 Federal Com 25H Gyro + MWD 0-19189'MD