

Oilfield Services, Central U.S. Land  
Schlumberger Drilling and Measurements  
Drilling Group  
Geo-Market Area: South West Texas Basin  
7220 W I-H 20  
Midland, Texas 79706  
Phone : (432) 742-5400 (Main)  
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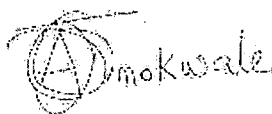
**Schlumberger**

Well Reference:

S29, 23S, 31E, Eddy NM  
N 32.26968 W -103.79446

I, Jude Omokwale certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of May 05, 2019 through June 14, 2019, conduct or supervise the taking of the TelePacer/SlimPulse & 3rd Party Corrected surveys from a depth of 796.00 feet to a depth of 22901.00 feet referenced to driller's depth; that the data is true, correct, complete and within the limitations of the tool as set forth by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I am authorized and qualified to make this report; that this survey was conducted at the request of Oxy USA Inc. for the Pure Gold MDP1 29-17 Fed Com 6H Well (Original Hole) API No. 30-015-45650 in New Mexico; and that I have reviewed this report and find that it conforms to the principals and procedures as set forth by Drilling & Measurements, a division of Schlumberger Technology Corporation.

By  
Jude Omokwale  
FS

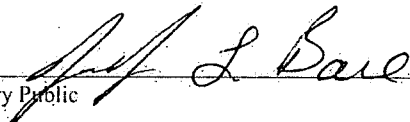


Subscribed and Sworn to before me this 6 day of 18 (month) 2019 (yr)

My Commission expires:

05-22-2023

Notary Public



(signature)

(County State)

Grady, OK

JODY LEON BARE  
Notary Public, State of Oklahoma  
Commission # 19005260  
My Commission Expires 05-22-2023

# Schlumberger

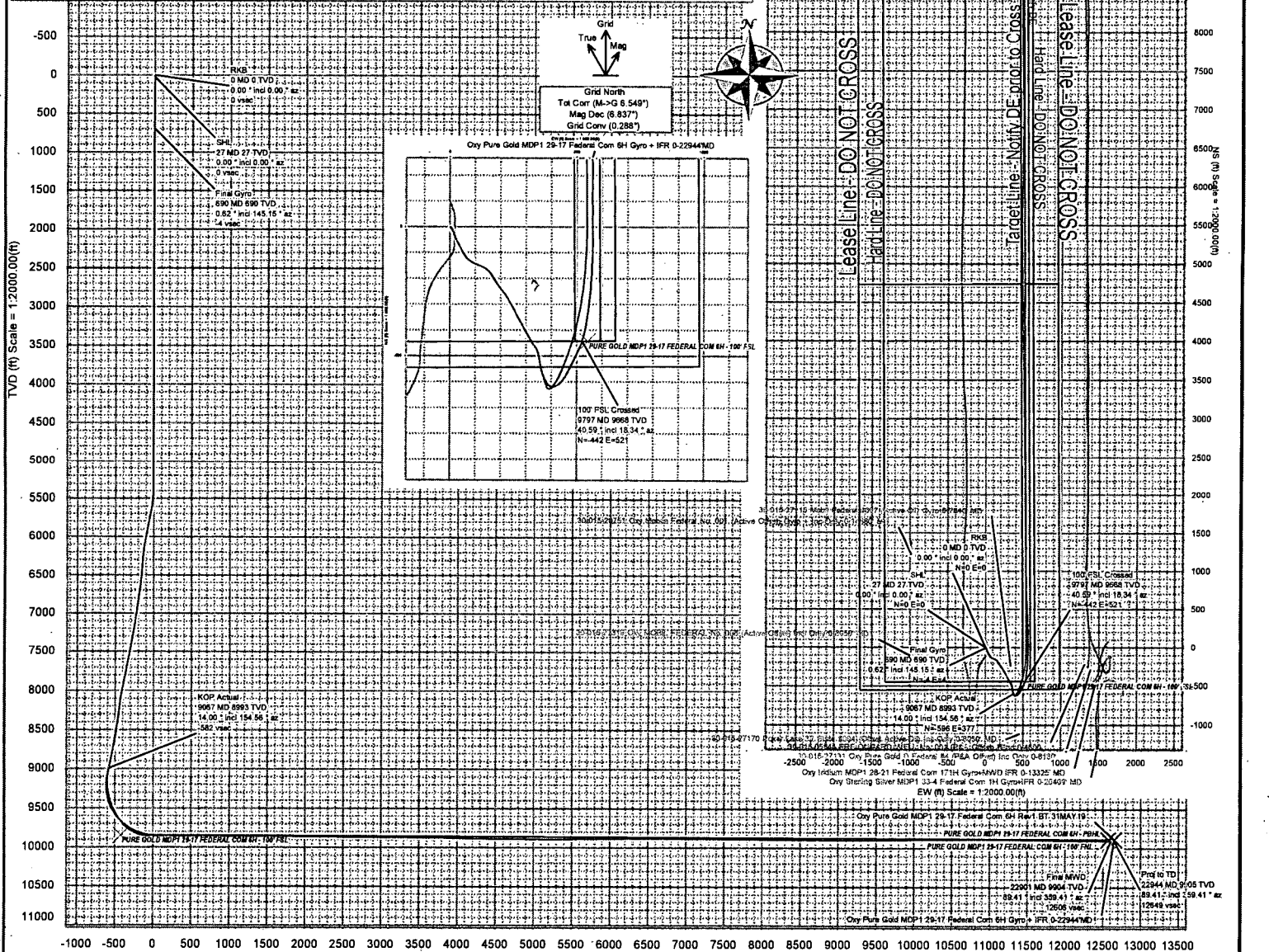
OXY



| Borehole:         | Well:                                   | Field:                  | Structure:                              |
|-------------------|-----------------------------------------|-------------------------|-----------------------------------------|
| Original Borehole | Oxy Pure Gold MDP1 29-17 Federal Com 6H | NM Eddy County (NAD 83) | Oxy Pure Gold MDP1 29-17 Federal Com 6H |

| Gravity & Magnetic Parameters |               |                                         |  | Surface Location    |                        |                        |  | Miscellaneous                                                |                                        |  |  |
|-------------------------------|---------------|-----------------------------------------|--|---------------------|------------------------|------------------------|--|--------------------------------------------------------------|----------------------------------------|--|--|
| Model: IFR1                   | Dip: 59.988°  | Date: 31-May-2019                       |  | Lat: N 32 16 19.84  | Northing: 462259.58RUS | Grid Conv: 0.2677°     |  | Slot: Oxy Pure Gold                                          | TVD Ref: RKB=26.5' (3388 ft above MSL) |  |  |
| MagDec: 6.837°                | FS: 47968.3nT | Gravity FS: 998.462mgal (9.80665 Based) |  | Lon: W 103 47 40.07 | Eastings: 707890.96RUS | Scale Fact: 0.99904056 |  | Pure Gold MDP1 29-17                                         |                                        |  |  |
|                               |               |                                         |  |                     |                        |                        |  | Federal Com 6H                                               |                                        |  |  |
|                               |               |                                         |  |                     |                        |                        |  | Oxy Pure Gold MDP1 29-17 Federal Com 6H Gyro + IFR 0-22944MD |                                        |  |  |

| Critical Points  |          |       |        |         |          |           |           |       |  |
|------------------|----------|-------|--------|---------|----------|-----------|-----------|-------|--|
| Critical Point   | MD       | INCL  | AZIM   | TVD     | VSEC     | N(+)/S(-) | E(+)/W(-) | DLS   |  |
| RKB              | 0.00     | 0.00  | 0.00   | 0.00    | 0.00     | 0.00      | 0.00      |       |  |
| SHL              | 26.50    | 0.00  | 0.00   | 26.50   | 0.00     | 0.00      | 0.00      | 0.00  |  |
| Final Gyro       | 690.40   | 0.62  | 145.15 | 690.37  | -4.22    | -4.36     | 3.75      | 0.37  |  |
| KOP Actual       | 9067.00  | 14.00 | 154.56 | 8993.48 | -582.19  | -596.35   | 377.39    | 0.92  |  |
| 100' FSL Crossed | 9797.00  | 40.59 | 18.34  | 9667.68 | -422.69  | -441.99   | 521.37    | 10.04 |  |
| 100' FNL Crossed | 22865.00 | 89.08 | 358.33 | 9903.70 | 12570.28 | 12562.51  | 442.08    | 3.14  |  |
| Final MWD        | 22901.00 | 89.41 | 359.41 | 9904.17 | 12606.22 | 12598.50  | 441.37    | 3.14  |  |
| Proj to TD       | 22944.00 | 89.41 | 359.41 | 9904.61 | 12649.17 | 12641.50  | 440.93    | 0.00  |  |



Vertical Section (ft) Azim = 2.09° Scale = 1:2000.00(ft) Origin = 0N/S, 0E/W

# Oxy Pure Gold MDP1 29-17 Federal Com 6H Gyro + IFR 0-22944'MD Survey Geodetic Report (Def Survey)



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Report Date:</b> June 17, 2019 - 03:21 PM<br><b>Client:</b> OXY<br><b>Field:</b> NM Eddy County (NAD 83)<br><b>Structure / Slot:</b> Oxy Pure Gold MDP1 29-17 Federal Com 6H / Oxy Pure Gold MDP1 29-17 Federal Com 6H<br><b>Well:</b> Oxy Pure Gold MDP1 29-17 Federal Com 6H<br><b>Borehole:</b> Original Borehole<br><b>UW / API#:</b> Unknown / 30-015-45650<br><b>Survey Name:</b> Oxy Pure Gold MDP1 29-17 Federal Com 6H Gyro + IFR 0-22944'MD<br><b>Survey Date:</b> May 02, 2019<br><b>Tort / AHD / DDI / ERD Ratio:</b> 295.917' / 14076.677' / 6.985' / 1.421<br><b>Coordinate Reference System:</b> NAD83 New Mexico State Plane, Eastern Zone, US Feet<br><b>Location Lat / Long:</b> N 32° 16' 10.83624", W 103° 47' 40.06930"<br><b>Location Grid N/E Y/X:</b> N 462259.580 NUS, E 707890.950 NUS<br><b>CRS Grid Convergence Angle:</b> 0.2877°<br><b>Grid Scale Factor:</b> 0.99994086<br><b>Version / Patch:</b> 2.10.760.0 | <b>Survey / DLS Computation:</b> Minimum Curvature / Lubinski<br><b>Vertical Section Azimuth:</b> 2.090° (Grid North)<br><b>Vertical Section Origin:</b> 0.000 ft, 0.000 ft<br><b>TVD Reference Datum:</b> RKB=26.5'<br><b>TVD Reference Elevation:</b> 3386.900 ft above MSL<br><b>Seabed / Ground Elevation:</b> 3360.400 ft above MSL<br><b>Magnetic Declination:</b> 6.837°<br><b>Total Gravity Field Strength:</b> 998.4519mgn (9.80665 Based)<br><b>Gravity Model:</b> GARM<br><b>Total Magnetic Field Strength:</b> 47968.900 nT<br><b>Magnetic Dip Angle:</b> 59.988°<br><b>Declination Date:</b> May 31, 2019<br><b>Magnetic Declination Model:</b> IFR1<br><b>North Reference:</b> Grid North<br><b>Grid Convergence Used:</b> 0.2877°<br><b>Total Corr Mag North-&gt;Grid North:</b> 6.5493°<br><b>Local Coord Referenced To:</b> Well Head | <b>Minimum Curvature / Lubinski</b><br>2.090° (Grid North)<br>0.000 ft, 0.000 ft<br>RKB=26.5'<br>3386.900 ft above MSL<br>3360.400 ft above MSL<br>6.837°<br>998.4519mgn (9.80665 Based)<br>GARM<br>47968.900 nT<br>59.988°<br>May 31, 2019<br>IFR1<br>Grid North<br>0.2877°<br>6.5493°<br>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>(ft/100ft) | Northing<br>(NUS) | Easting<br>(EUS) | Latitude<br>(N/S ° ' ") | Longitude<br>(E/W ° ' ") |
|------------|------------|-------------|------------------|-------------|--------------|------------|------------|-------------------|-------------------|------------------|-------------------------|--------------------------|
| RKB        | 0.00       | 0.00        | 0.00             | 0.00        | 0.00         | 0.00       | 0.00       | N/A               | 462259.58         | 707890.95        | N 32 16 10.84           | W 103 47 40.07           |
| SHL        | 26.50      | 0.00        | 0.00             | 26.50       | 0.00         | 0.00       | 0.00       | 0.00              | 462259.58         | 707890.95        | N 32 16 10.84           | W 103 47 40.07           |
|            | 58.80      | 0.53        | 116.18           | 58.80       | -0.06        | -0.07      | 0.13       | 1.64              | 462259.51         | 707891.08        | N 32 16 10.84           | W 103 47 40.07           |
|            | 111.30     | 0.61        | 150.39           | 111.30      | -0.40        | -0.42      | 0.49       | 0.66              | 462259.16         | 707891.44        | N 32 16 10.83           | W 103 47 40.06           |
|            | 201.70     | 0.54        | 159.66           | 201.69      | -1.20        | -1.23      | 0.88       | 0.13              | 462258.35         | 707891.83        | N 32 16 10.82           | W 103 47 40.06           |
|            | 288.30     | 0.48        | 142.49           | 288.29      | -1.86        | -1.90      | 1.24       | 0.19              | 462257.68         | 707892.19        | N 32 16 10.82           | W 103 47 40.05           |
|            | 383.00     | 0.48        | 136.81           | 382.99      | -2.44        | -2.51      | 1.75       | 0.05              | 462257.07         | 707892.70        | N 32 16 10.81           | W 103 47 40.05           |
|            | 477.80     | 0.40        | 128.54           | 477.78      | -2.92        | -3.00      | 2.28       | 0.11              | 462256.58         | 707893.23        | N 32 16 10.81           | W 103 47 40.04           |
|            | 572.40     | 0.59        | 128.75           | 572.38      | -3.41        | -3.51      | 2.92       | 0.20              | 462256.07         | 707893.87        | N 32 16 10.80           | W 103 47 40.04           |
|            | 667.10     | 0.56        | 138.99           | 667.07      | -4.03        | -4.17      | 3.60       | 0.11              | 462255.41         | 707894.55        | N 32 16 10.79           | W 103 47 40.03           |
| Final Gyro | 690.40     | 0.62        | 145.15           | 690.37      | -4.22        | -4.36      | 3.75       | 0.37              | 462255.22         | 707894.70        | N 32 16 10.79           | W 103 47 40.03           |
|            | 796.00     | 0.19        | 122.21           | 795.97      | -4.76        | -4.92      | 4.23       | 0.43              | 462254.66         | 707895.18        | N 32 16 10.79           | W 103 47 40.02           |
|            | 888.00     | 0.15        | 116.43           | 887.97      | -4.89        | -5.06      | 4.46       | 0.05              | 462254.53         | 707895.41        | N 32 16 10.79           | W 103 47 40.02           |
|            | 1073.00    | 0.13        | 107.57           | 1072.97     | -5.04        | -5.23      | 4.88       | 0.02              | 462254.35         | 707895.83        | N 32 16 10.78           | W 103 47 40.01           |
|            | 1257.00    | 0.18        | 125.71           | 1256.97     | -5.26        | -5.46      | 5.31       | 0.04              | 462254.12         | 707896.26        | N 32 16 10.78           | W 103 47 40.01           |
|            | 1350.00    | 0.05        | 210.87           | 1349.97     | -5.38        | -5.58      | 5.41       | 0.20              | 462254.00         | 707896.36        | N 32 16 10.78           | W 103 47 40.01           |
|            | 1442.00    | 0.05        | 285.54           | 1441.97     | -5.40        | -5.60      | 5.35       | 0.07              | 462253.98         | 707896.30        | N 32 16 10.78           | W 103 47 40.01           |
|            | 1537.00    | 0.05        | 302.23           | 1536.97     | -5.37        | -5.57      | 5.28       | 0.02              | 462254.01         | 707896.23        | N 32 16 10.78           | W 103 47 40.01           |
|            | 1632.00    | 0.09        | 72.75            | 1631.97     | -5.33        | -5.52      | 5.31       | 0.13              | 462254.06         | 707896.26        | N 32 16 10.78           | W 103 47 40.01           |
|            | 1726.00    | 0.05        | 119.61           | 1725.97     | -5.32        | -5.52      | 5.42       | 0.07              | 462254.06         | 707896.37        | N 32 16 10.78           | W 103 47 40.01           |
|            | 1821.00    | 0.04        | 18.89            | 1820.97     | -5.31        | -5.51      | 5.47       | 0.07              | 462254.07         | 707896.42        | N 32 16 10.78           | W 103 47 40.01           |
|            | 1915.00    | 0.18        | 171.47           | 1914.97     | -5.42        | -5.63      | 5.50       | 0.23              | 462253.95         | 707896.45        | N 32 16 10.78           | W 103 47 40.01           |
|            | 2009.00    | 0.05        | 233.03           | 2008.97     | -5.59        | -5.80      | 5.49       | 0.17              | 462253.78         | 707896.44        | N 32 16 10.78           | W 103 47 40.01           |
|            | 2104.00    | 0.10        | 300.20           | 2103.97     | -5.58        | -5.78      | 5.38       | 0.10              | 462253.80         | 707896.33        | N 32 16 10.78           | W 103 47 40.01           |
|            | 2198.00    | 0.04        | 126.09           | 2197.97     | -5.56        | -5.76      | 5.34       | 0.15              | 462253.82         | 707896.29        | N 32 16 10.78           | W 103 47 40.01           |
|            | 2293.00    | 0.10        | 272.03           | 2292.97     | -5.58        | -5.78      | 5.28       | 0.14              | 462253.80         | 707896.23        | N 32 16 10.78           | W 103 47 40.01           |
|            | 2387.00    | 0.10        | 128.94           | 2386.97     | -5.63        | -5.82      | 5.26       | 0.20              | 462253.76         | 707896.21        | N 32 16 10.78           | W 103 47 40.01           |
|            | 2482.00    | 0.10        | 35.14            | 2481.97     | -5.61        | -5.81      | 5.38       | 0.15              | 462253.77         | 707896.33        | N 32 16 10.78           | W 103 47 40.01           |
|            | 2576.00    | 0.05        | 201.30           | 2575.97     | -5.58        | -5.78      | 5.41       | 0.16              | 462253.80         | 707896.36        | N 32 16 10.78           | W 103 47 40.01           |
|            | 2671.00    | 0.04        | 270.65           | 2670.97     | -5.62        | -5.82      | 5.36       | 0.05              | 462253.76         | 707896.31        | N 32 16 10.78           | W 103 47 40.01           |
|            | 2859.00    | 0.05        | 180.98           | 2858.97     | -5.70        | -5.90      | 5.29       | 0.03              | 462253.68         | 707896.24        | N 32 16 10.78           | W 103 47 40.01           |
|            | 2954.00    | 0.10        | 127.35           | 2953.97     | -5.79        | -5.99      | 5.36       | 0.09              | 462253.59         | 707896.31        | N 32 16 10.78           | W 103 47 40.01           |
|            | 3048.00    | 0.04        | 67.39            | 3047.97     | -5.83        | -6.03      | 5.45       | 0.09              | 462253.55         | 707896.40        | N 32 16 10.78           | W 103 47 40.01           |
|            | 3142.00    | 0.03        | 215.65           | 3141.97     | -5.83        | -6.04      | 5.47       | 0.07              | 462253.54         | 707896.42        | N 32 16 10.78           | W 103 47 40.01           |
|            | 3236.00    | 0.03        | 215.65           | 3235.97     | -5.87        | -6.08      | 5.44       | 0.00              | 462253.50         | 707896.39        | N 32 16 10.78           | W 103 47 40.01           |
|            | 3331.00    | 0.10        | 223.14           | 3330.97     | -5.96        | -6.16      | 5.37       | 0.07              | 462253.42         | 707896.32        | N 32 16 10.78           | W 103 47 40.01           |
|            | 3425.00    | 0.14        | 90.40            | 3424.97     | -6.01        | -6.22      | 5.43       | 0.23              | 462253.36         | 707896.38        | N 32 16 10.77           | W 103 47 40.01           |
|            | 3520.00    | 0.22        | 109.43           | 3519.97     | -6.07        | -6.28      | 5.72       | 0.10              | 462253.30         | 707896.67        | N 32 16 10.77           | W 103 47 40.00           |
|            | 3614.00    | 0.21        | 64.18            | 3613.97     | -6.04        | -6.26      | 6.04       | 0.18              | 462253.32         | 707896.99        | N 32 16 10.77           | W 103 47 40.00           |
|            | 3803.00    | 0.21        | 132.50           | 3802.97     | -6.10        | -6.35      | 6.61       | 0.12              | 462253.23         | 707897.56        | N 32 16 10.77           | W 103 47 39.99           |
|            | 3898.00    | 0.11        | 91.52            | 3897.97     | -6.21        | -6.47      | 6.83       | 0.15              | 462253.11         | 707897.78        | N 32 16 10.77           | W 103 47 39.99           |
|            | 3992.00    | 0.30        | 76.77            | 3991.96     | -6.15        | -6.41      | 7.16       | 0.21              | 462253.17         | 707898.11        | N 32 16 10.77           | W 103 47 39.99           |
|            | 4178.00    | 0.21        | 43.85            | 4177.96     | -5.76        | -6.06      | 7.87       | 0.09              | 462253.53         | 707898.82        | N 32 16 10.78           | W 103 47 39.98           |
|            | 4378.00    | 0.08        | 280.51           | 4377.96     | -5.47        | -5.77      | 7.99       | 0.13              | 462253.81         | 707898.93        | N 32 16 10.78           | W 103 47 39.98           |
|            | 4567.00    | 0.08        | 294.53           | 4566.96     | -5.40        | -5.69      | 7.74       | 0.01              | 462253.89         | 707898.69        | N 32 16 10.78           | W 103 47 39.98           |
|            | 4756.00    | 0.05        | 135.66           | 4755.96     | -5.41        | -5.69      | 7.67       | 0.07              | 462253.89         | 707898.62        | N 32 16 10.78           | W 103 47 39.98           |
|            | 4851.00    | 0.10        | 320.46           | 4850.96     | -5.37        | -5.66      | 7.65       | 0.16              | 462253.92         | 707898.60        | N 32 16 10.78           | W 103 47 39.98           |
|            | 4945.00    | 0.06        | 248.69           | 4944.96     | -5.33        | -5.61      | 7.55       | 0.11              | 462253.97         | 707898.50        | N 32 16 10.78           | W 103 47 39.98           |
|            | 5039.00    | 0.08        | 201.81           | 5038.96     | -5.41        | -5.69      | 7.48       | 0.06              | 462253.89         | 707898.43        | N 32 16 10.78           | W 103 47 39.98           |
|            | 5228.00    | 0.09        | 95.33            | 5227.96     | -5.55        | -5.83      | 7.58       | 0.07              | 462253.75         | 707898.53        | N 32 16 10.78           | W 103 47 39.98           |
|            | 5322.00    | 0.09        | 130.48           | 5321.96     | -5.60        | -5.88      | 7.71       | 0.06              | 462253.70         | 707898.66        | N 32 16 10.78           | W 103 47 39.98           |
|            | 5417.00    | 0.26        | 141.05           | 5416.96     | -5.80        | -6.10      | 7.90       | 0.18              | 462253.48         | 707898.85        | N 32 16 10.78           | W 103 47 39.98           |
|            | 5511.00    | 5.34        | 161.41           | 5510.82     | -10.06       | -10.41     | 9.43       | 5.42              | 462249.17         | 707900.38        | N 32 16 10.73           | W 103 47 39.96           |
|            | 5606.00    | 9.64        | 160.31           | 5604.99     | -21.59       | -22.10     | 13.52      | 4.53              | 462237.49         | 707904.47        | N 32 16 10.62           | W 103 47 39.91           |
|            | 5700.00    | 12.89       | 155.89           | 5697.16     | -38.31       | -39.08     | 20.46      | 3.57              | 462220.50         | 707911.41        | N 32 16 10.45           | W 103 47 39.83           |
|            | 5888.00    | 12.40       | 151.57           | 5880.61     | -74.51       | -75.97     | 38.64      | 0.57              | 462183.61         | 707929.58        | N 32 16 10.08           | W 103 47 39.62           |
|            | 5983.00    | 12.66       | 149.40           | 5973.35     | -92.06       | -93.90     | 48.79      | 0.57              | 462165.68         | 707939.74        | N 32 16 9.90            | W 103 47 39.51           |
|            | 6077.00    | 12.69       | 148.42           | 6065.06     | -109.32      | -111.57    | 58.44      | 0.23              | 462148.02         | 707950.39        | N 32 16 9.73            | W 103 47 39.38           |
|            | 6266.00    | 13.39       | 116.03           | 6249.42     | -135.52      | -138.89    | 90.02      | 3.83              | 462120.70         | 707980.96        | N 32 16 9.46            | W 103 47 39.03           |
|            | 6361.00    | 13.25       | 110.20           | 6341.87     | -143.36      | -147.48    | 110.12     | 1.42              | 462112.11         | 708001.06        | N 32 16 9.37            | W 103 47 38.80           |
|            | 6550.00    | 10.24       | 125.33           | 6526.94     | -159.31      | -164.68    | 144.17     | 2.27              | 462094.91         | 708035.21        | N 32 16 9.20            | W 103 47 38.40           |
|            | 6644.00    | 9.56        | 138.93           | 6619.55     | -169.59      | -175.40    | 156.12     | 2.58              | 462084.19         | 708047.06        | N 32 16 9.09            | W 103 47 38.16           |
|            | 6739.00    | 9.38        | 148.87           | 6713.26     | -181.82      | -187.97    | 165.30     | 1.73              | 462071.62         | 708056.24        | N 32 16 8.97            | W 103 47 38.16           |
|            | 6833.00    | 9.83        | 148.43           | 6805.94     | -194.91      | -201.37    | 173.46     | 0.49              | 462058.23         | 708064.40        | N 32 16 8.84            | W 103 47 38.06           |
|            | 6927.00    | 10.52       | 144.14           | 6898.47     | -208.35      | -215.16    | 182.69     | 1.09              | 462044.43         | 708073.63        | N 32 16 8.70            | W 103 47 37.95           |
|            | 7116.00    | 12.02       | 141.68           | 7083.82     | -236.95      | -244.58    | 205.00     | 0.83              | 462015.01         | 708095.94        | N 32 16 8.41            | W 103 47 37.70           |
|            | 7305.00    | 12.58       | 148.29           | 7268.49     | -269.04      | -277.54    | 228.02     | 0.80              | 461982.06         | 708118.96        | N 32 16 8.08            | W 103 47 37.43           |
|            | 7399.00    | 12.34       | 149.69           | 7360.27     | -286.02      | -294.92    | 238.47     | 0.41              | 461964.68         | 708129.41        | N 32 16 7.91            | W 103 47 37.31           |
|            | 7493.00    | 12.06       | 151.59           | 7452.15     | -302.97      | -312.22    | 248.22     | 0.52              | 461947.37         | 708139.15        | N 32 16 7.73            | W 103 47 37.20           |
|            | 7682.00    | 13.02       | 151.64           | 7636.64     | -338.33      | -348.33    | 267.72     | 0.51              | 461911.27         | 708158.66        | N 32 16 7.38            | W 103 47 36.97           |
|            | 7776.00    | 12.96       | 150.81           | 7728.24     | -356.47      | -366.85    | 277.89     | 0.21              | 461892.76         | 708168.83        | N 32 16 7.19            | W 103 47 36.85           |
|            | 7871.00    | 13.77       | 150.37           | 7820.66     | -375.19      | -385.97    | 288.68     | 0.86              | 461873.63         | 708179.61        | N 32 16 7.00            | W 103 47 36.73           |
|            | 8059.00    | 13.25       | 151.77           | 8003.46     | -412.71      | -424.30    | 310.13     | 0.29              | 461835.31         | 708201.06        | N 32 16 6.62            | W 103 47 36.48           |
|            | 8154.00    | 10.99       | 148.32           | 8096.34     | -429.58      | -441.54    | 320.14     | 2.46              | 461818.06         | 708211.07        | N 32 16 6.45            | W 103 47 36.37           |
|            | 8248.00    | 8.55        | 145.46           | 8188.97     | -442.63      | -454.93    | 328.81     | 2.65              | 461804.68         | 708219.74        | N 32 16 6.32            | W 103 47 36.27           |
|            | 8342.00    | 8.17        | 142.21           | 8281.97     | -453.37      | -465.96    | 336.86     | 0.64              | 461793.65         | 708227.79        | N 32 16 6.21            | W 103 47 36.17           |
|            | 8437.00    | 8.79        | 1555.            |             |              |            |            |                   |                   |                  |                         |                          |

| Comments            | MD<br>(ft) | Incl<br>(°) | Azim Grid<br>(°) | TVD<br>(ft) | VSEC<br>(ft) | NS<br>(ft) | EW<br>(ft) | DLS<br>(ft/100ft) | Northing<br>(ftUS) | Easting<br>(ftUS) | Latitude<br>(N/S ° ' ") | Longitude<br>(E/W ° ' ") |
|---------------------|------------|-------------|------------------|-------------|--------------|------------|------------|-------------------|--------------------|-------------------|-------------------------|--------------------------|
| KOP Actual          | 8531.00    | 9.85        | 167.27           | 8468.70     | -479.22      | -492.27    | 348.79     | 2.33              | 461767.34          | 708239.71         | N 32 16 5.95 W          | 103 47 36.04             |
|                     | 8626.00    | 10.44       | 168.70           | 8562.22     | -495.45      | -508.64    | 352.26     | 0.68              | 461750.97          | 708243.19         | N 32 16 5.79 W          | 103 47 36.00             |
|                     | 8720.00    | 10.58       | 171.70           | 8654.64     | -512.23      | -525.53    | 355.18     | 0.60              | 461734.08          | 708246.11         | N 32 16 5.62 W          | 103 47 35.96             |
|                     | 8814.00    | 11.75       | 168.25           | 8746.86     | -530.01      | -543.44    | 358.37     | 1.43              | 461716.18          | 708249.30         | N 32 16 5.44 W          | 103 47 35.93             |
|                     | 8909.00    | 12.33       | 162.29           | 8839.78     | -548.94      | -562.57    | 363.43     | 1.44              | 461697.04          | 708252.36         | N 32 16 5.25 W          | 103 47 35.87             |
|                     | 8980.00    | 13.53       | 157.28           | 8908.98     | -563.62      | -577.45    | 368.94     | 2.31              | 461682.15          | 708259.87         | N 32 16 5.10 W          | 103 47 35.81             |
|                     | 9067.00    | 14.00       | 154.56           | 8993.48     | -582.19      | -596.35    | 377.39     | 0.92              | 461663.27          | 708268.32         | N 32 16 4.92 W          | 103 47 35.71             |
|                     | 9162.00    | 12.52       | 130.57           | 9086.01     | -598.80      | -613.43    | 390.16     | 5.95              | 461646.18          | 708281.09         | N 32 16 4.75 W          | 103 47 35.56             |
|                     | 9256.00    | 13.15       | 83.42            | 9177.91     | -603.54      | -618.85    | 408.57     | 10.86             | 461640.77          | 708299.50         | N 32 16 4.69 W          | 103 47 35.35             |
|                     | 9349.00    | 15.60       | 52.30            | 9268.12     | -593.93      | -609.98    | 429.01     | 8.60              | 461649.64          | 708319.93         | N 32 16 4.78 W          | 103 47 35.11             |
|                     | 9444.00    | 17.85       | 34.84            | 9359.13     | -573.42      | -590.13    | 447.49     | 5.82              | 461669.48          | 708338.42         | N 32 16 4.87 W          | 103 47 34.89             |
|                     | 9538.00    | 21.11       | 28.84            | 9447.72     | -546.11      | -563.41    | 463.94     | 3.98              | 461696.21          | 708354.86         | N 32 16 5.24 W          | 103 47 34.70             |
|                     | 9631.00    | 29.28       | 25.87            | 9531.80     | -510.29      | -528.21    | 481.87     | 8.89              | 461731.40          | 708372.89         | N 32 16 5.59 W          | 103 47 34.49             |
|                     | 9726.00    | 35.79       | 26.89            | 9611.85     | -463.76      | -482.49    | 504.70     | 6.88              | 461777.12          | 708395.62         | N 32 16 6.04 W          | 103 47 34.22             |
| 100' FSL<br>Crossed | 9797.00    | 40.59       | 18.34            | 9667.68     | -422.69      | -441.99    | 521.37     | 10.04             | 461817.61          | 708412.29         | N 32 16 6.44 W          | 103 47 34.02             |
|                     | 9820.00    | 42.26       | 15.93            | 9684.93     | -407.99      | -427.45    | 525.85     | 10.04             | 461832.15          | 708416.77         | N 32 16 6.58 W          | 103 47 33.97             |
|                     | 9915.00    | 51.68       | 8.51             | 9749.73     | -339.74      | -359.68    | 540.18     | 11.43             | 461899.92          | 708431.09         | N 32 16 7.25 W          | 103 47 33.80             |
|                     | 10009.00   | 62.14       | 6.52             | 9800.98     | -261.44      | -281.70    | 550.38     | 11.27             | 461977.89          | 708441.30         | N 32 16 8.02 W          | 103 47 33.68             |
|                     | 10103.00   | 75.30       | 3.60             | 9835.03     | -174.17      | -194.65    | 557.99     | 14.29             | 462064.94          | 708448.90         | N 32 16 8.88 W          | 103 47 33.58             |
|                     | 10198.00   | 88.31       | 1.41             | 9848.54     | -80.35       | -100.91    | 562.06     | 13.88             | 462158.67          | 708452.97         | N 32 16 9.81 W          | 103 47 33.53             |
|                     | 10255.00   | 89.52       | 359.64           | 9849.62     | -23.39       | -43.93     | 562.58     | 3.76              | 462215.65          | 708453.50         | N 32 16 10.37 W         | 103 47 33.52             |
|                     | 10282.00   | 89.93       | 359.87           | 9849.75     | 3.59         | -16.93     | 562.47     | 1.74              | 462242.65          | 708453.38         | N 32 16 10.64 W         | 103 47 33.52             |
|                     | 10376.00   | 89.79       | 359.16           | 9849.98     | 97.50        | 77.06      | 561.67     | 0.77              | 462336.64          | 708452.59         | N 32 16 11.57 W         | 103 47 33.52             |
|                     | 10472.00   | 89.55       | 1.44             | 9850.53     | 193.44       | 173.06     | 562.17     | 2.39              | 462432.62          | 708453.09         | N 32 16 12.52 W         | 103 47 33.51             |
|                     | 10566.00   | 89.59       | 357.36           | 9851.24     | 287.32       | 267.03     | 561.19     | 4.34              | 462526.59          | 708452.10         | N 32 16 13.45 W         | 103 47 33.52             |
|                     | 10660.00   | 89.48       | 356.74           | 9852.00     | 380.95       | 360.90     | 556.35     | 0.67              | 462620.46          | 708447.27         | N 32 16 14.38 W         | 103 47 33.57             |
|                     | 10758.00   | 89.14       | 357.24           | 9853.18     | 478.55       | 458.76     | 551.21     | 0.62              | 462718.31          | 708442.12         | N 32 16 15.35 W         | 103 47 33.62             |
|                     | 10851.00   | 89.42       | 357.21           | 9854.35     | 571.21       | 551.64     | 546.70     | 0.30              | 462811.19          | 708437.62         | N 32 16 16.27 W         | 103 47 33.67             |
|                     | 10944.00   | 89.48       | 357.69           | 9855.24     | 663.90       | 644.54     | 542.57     | 0.52              | 462904.08          | 708433.48         | N 32 16 17.19 W         | 103 47 33.71             |
|                     | 11037.00   | 89.21       | 357.47           | 9856.31     | 756.61       | 737.45     | 538.64     | 0.37              | 462996.99          | 708429.56         | N 32 16 18.11 W         | 103 47 33.75             |
|                     | 11130.00   | 89.55       | 357.06           | 9857.31     | 849.27       | 830.34     | 534.20     | 0.57              | 463089.87          | 708425.12         | N 32 16 19.03 W         | 103 47 33.80             |
|                     | 11224.00   | 89.62       | 359.84           | 9857.99     | 943.07       | 924.30     | 531.66     | 2.96              | 463183.82          | 708422.58         | N 32 16 19.96 W         | 103 47 33.82             |
|                     | 11317.00   | 89.93       | 359.83           | 9858.36     | 1036.00      | 1017.30    | 531.39     | 0.33              | 463276.81          | 708422.31         | N 32 16 20.88 W         | 103 47 33.82             |
|                     | 11409.00   | 90.03       | 359.83           | 9858.39     | 1127.93      | 1109.30    | 531.12     | 0.11              | 463368.81          | 708422.04         | N 32 16 21.79 W         | 103 47 33.82             |
|                     | 11503.00   | 90.03       | 358.71           | 9858.34     | 1221.81      | 1203.29    | 529.92     | 1.19              | 463462.79          | 708420.84         | N 32 16 22.72 W         | 103 47 33.83             |
|                     | 11597.00   | 90.14       | 359.22           | 9858.20     | 1315.67      | 1297.27    | 528.22     | 0.56              | 463556.77          | 708419.14         | N 32 16 23.65 W         | 103 47 33.84             |
|                     | 11690.00   | 90.31       | 359.41           | 9857.84     | 1408.56      | 1390.26    | 527.11     | 0.27              | 463649.76          | 708418.03         | N 32 16 24.57 W         | 103 47 33.85             |
|                     | 11783.00   | 89.79       | 359.72           | 9857.76     | 1501.47      | 1483.26    | 526.41     | 0.65              | 463742.75          | 708417.32         | N 32 16 25.49 W         | 103 47 33.85             |
|                     | 11876.00   | 89.62       | 359.08           | 9858.23     | 1594.37      | 1576.25    | 525.43     | 0.71              | 463835.74          | 708416.35         | N 32 16 26.41 W         | 103 47 33.86             |
|                     | 11969.00   | 89.35       | 359.19           | 9859.07     | 1687.24      | 1669.24    | 524.03     | 0.31              | 463928.72          | 708414.95         | N 32 16 27.33 W         | 103 47 33.87             |
|                     | 12063.00   | 89.52       | 358.58           | 9860.00     | 1781.09      | 1763.22    | 522.20     | 0.67              | 464022.69          | 708413.12         | N 32 16 28.26 W         | 103 47 33.88             |
|                     | 12156.00   | 89.93       | 359.44           | 9861.26     | 1873.94      | 1856.19    | 520.59     | 1.12              | 464115.66          | 708411.51         | N 32 16 29.18 W         | 103 47 33.90             |
|                     | 12249.00   | 89.21       | 359.41           | 9862.77     | 1966.83      | 1949.17    | 519.66     | 0.30              | 464208.64          | 708410.58         | N 32 16 30.10 W         | 103 47 33.90             |
|                     | 12343.00   | 89.72       | 0.37             | 9863.64     | 2060.75      | 2043.17    | 519.48     | 1.16              | 464302.62          | 708410.40         | N 32 16 31.03 W         | 103 47 33.90             |
|                     | 12436.00   | 89.17       | 359.84           | 9864.54     | 2153.69      | 2136.16    | 519.65     | 0.82              | 464395.61          | 708410.57         | N 32 16 31.95 W         | 103 47 33.89             |
|                     | 12529.00   | 89.00       | 0.23             | 9866.03     | 2246.62      | 2229.15    | 519.71     | 0.46              | 464488.60          | 708410.62         | N 32 16 32.87 W         | 103 47 33.89             |
|                     | 12623.00   | 89.89       | 0.28             | 9867.10     | 2340.57      | 2323.14    | 520.12     | 0.74              | 464582.58          | 708411.04         | N 32 16 33.80 W         | 103 47 33.88             |
|                     | 12809.00   | 89.59       | 358.60           | 9868.27     | 2526.36      | 2509.12    | 518.31     | 0.90              | 464678.55          | 708409.22         | N 32 16 35.64 W         | 103 47 33.89             |
|                     | 12902.00   | 89.52       | 359.49           | 9868.99     | 2619.22      | 2602.11    | 516.76     | 0.96              | 464768.53          | 708407.67         | N 32 16 36.56 W         | 103 47 33.90             |
|                     | 12996.00   | 89.59       | 359.32           | 9869.72     | 2713.12      | 2696.10    | 515.78     | 0.20              | 464855.52          | 708406.70         | N 32 16 37.49 W         | 103 47 33.90             |
|                     | 13089.00   | 89.42       | 358.59           | 9870.53     | 2805.97      | 2789.08    | 514.08     | 0.81              | 464948.49          | 708405.00         | N 32 16 38.41 W         | 103 47 33.92             |
|                     | 13182.00   | 90.00       | 359.68           | 9871.00     | 2898.85      | 2882.07    | 512.68     | 1.33              | 465041.47          | 708403.60         | N 32 16 39.33 W         | 103 47 33.93             |
|                     | 13275.00   | 89.52       | 359.99           | 9871.39     | 2991.77      | 2975.07    | 512.41     | 0.61              | 465134.46          | 708403.33         | N 32 16 40.25 W         | 103 47 33.93             |
|                     | 13368.00   | 89.97       | 358.65           | 9871.80     | 3084.66      | 3068.06    | 511.31     | 1.52              | 465227.45          | 708402.23         | N 32 16 41.17 W         | 103 47 33.93             |
|                     | 13462.00   | 89.55       | 358.79           | 9872.20     | 3178.50      | 3162.03    | 509.21     | 0.47              | 465321.42          | 708400.13         | N 32 16 42.10 W         | 103 47 33.95             |
|                     | 13555.00   | 89.31       | 359.42           | 9873.12     | 3271.37      | 3255.01    | 507.76     | 0.72              | 465415.40          | 708398.67         | N 32 16 43.02 W         | 103 47 33.96             |
|                     | 13648.00   | 89.48       | 359.78           | 9874.10     | 3364.27      | 3348.01    | 507.11     | 0.43              | 465509.38          | 708398.03         | N 32 16 43.94 W         | 103 47 33.97             |
|                     | 13742.00   | 89.86       | 358.82           | 9874.81     | 3458.16      | 3442.00    | 505.96     | 1.04              | 465603.36          | 708396.88         | N 32 16 44.87 W         | 103 47 33.97             |
|                     | 13836.00   | 89.90       | 359.01           | 9875.52     | 3551.87      | 3535.96    | 504.44     | 0.16              | 465697.32          | 708393.36         | N 32 16 45.71 W         | 103 47 34.00             |
|                     | 14021.00   | 89.21       | 357.97           | 9876.25     | 3736.68      | 3720.92    | 499.99     | 1.34              | 465791.37          | 708390.91         | N 32 16 47.63 W         | 103 47 34.03             |
|                     | 14115.00   | 89.04       | 358.49           | 9877.68     | 3830.46      | 3814.87    | 497.08     | 0.58              | 465885.34          | 708388.00         | N 32 16 48.56 W         | 103 47 34.06             |
|                     | 14208.00   | 89.00       | 357.93           | 9879.27     | 3923.23      | 3907.81    | 494.18     | 0.60              | 465979.31          | 708385.10         | N 32 16 49.48 W         | 103 47 34.08             |
|                     | 14301.00   | 88.90       | 359.39           | 9880.98     | 4016.05      | 4000.77    | 492.00     | 1.57              | 466073.28          | 708382.92         | N 32 16 50.40 W         | 103 47 34.10             |
|                     | 14396.00   | 88.59       | 357.99           | 9883.06     | 4110.85      | 4095.72    | 489.83     | 1.51              | 466167.25          | 708380.75         | N 32 16 51.34 W         | 103 47 34.12             |
|                     | 14490.00   | 89.48       | 358.58           | 9884.64     | 4204.63      | 4189.66    | 487.02     | 1.14              | 466261.22          | 708377.94         | N 32 16 52.27 W         | 103 47 34.15             |
|                     | 14585.00   | 89.28       | 0.51             | 9885.67     | 4299.53      | 4284.65    | 486.27     | 2.04              | 4663555.1          |                   |                         |                          |

| Comments   | MD<br>(ft) | Incl<br>(°) | Azlm Grid<br>(°) | TVD<br>(ft) | VSEC<br>(ft) | NS<br>(ft) | EW<br>(ft) | DLS<br>(°/100ft) | Northing<br>(ft) | Easting<br>(ft) | Latitude<br>(N/S ° ' ")      | Longitude<br>(E/W ° ' ") |
|------------|------------|-------------|------------------|-------------|--------------|------------|------------|------------------|------------------|-----------------|------------------------------|--------------------------|
|            | 18654.00   | 89.38       | 359.39           | 9894.14     | 8364.37      | 8352.82    | 469.05     | 0.63             | 470611.89        | 708359.87       | N 32 17 33.46 W 103 47 34.12 |                          |
|            | 18748.00   | 89.69       | 358.91           | 9894.91     | 8458.24      | 8446.80    | 467.65     | 0.61             | 470705.87        | 708358.57       | N 32 17 34.39 W 103 47 34.13 |                          |
|            | 18843.00   | 89.55       | 358.01           | 9895.54     | 8553.05      | 8541.77    | 465.10     | 0.96             | 470800.82        | 708356.02       | N 32 17 35.33 W 103 47 34.15 |                          |
|            | 18938.00   | 89.21       | 358.17           | 9896.56     | 8647.81      | 8636.71    | 461.93     | 0.40             | 470895.76        | 708352.86       | N 32 17 36.27 W 103 47 34.18 |                          |
|            | 19032.00   | 89.48       | 359.21           | 9897.64     | 8741.64      | 8730.68    | 459.79     | 1.14             | 470989.72        | 708350.71       | N 32 17 37.20 W 103 47 34.20 |                          |
|            | 19127.00   | 89.93       | 358.46           | 9898.13     | 8836.48      | 8825.65    | 457.85     | 0.92             | 471084.69        | 708348.78       | N 32 17 38.14 W 103 47 34.22 |                          |
|            | 19222.00   | 90.17       | 0.03             | 9898.05     | 8931.36      | 8920.64    | 456.60     | 1.67             | 471179.68        | 708347.52       | N 32 17 39.08 W 103 47 34.23 |                          |
|            | 19317.00   | 89.96       | 358.32           | 9897.94     | 9026.23      | 9015.63    | 455.23     | 1.81             | 471274.66        | 708346.16       | N 32 17 40.02 W 103 47 34.24 |                          |
|            | 19411.00   | 88.93       | 358.39           | 9898.85     | 9120.03      | 9109.59    | 452.54     | 1.10             | 471368.61        | 708343.46       | N 32 17 40.95 W 103 47 34.26 |                          |
|            | 19506.00   | 90.24       | 359.08           | 9899.54     | 9214.86      | 9204.56    | 450.44     | 1.56             | 471463.57        | 708341.36       | N 32 17 41.89 W 103 47 34.28 |                          |
|            | 19601.00   | 90.79       | 358.87           | 9898.68     | 9309.72      | 9299.54    | 448.74     | 0.62             | 471558.55        | 708339.66       | N 32 17 42.83 W 103 47 34.30 |                          |
|            | 19696.00   | 90.51       | 1.08             | 9897.60     | 9404.64      | 9394.53    | 448.70     | 2.34             | 471653.53        | 708339.62       | N 32 17 43.77 W 103 47 34.29 |                          |
|            | 19790.00   | 90.41       | 2.82             | 9896.85     | 9498.63      | 9488.46    | 451.90     | 1.85             | 471747.46        | 708342.82       | N 32 17 44.70 W 103 47 34.25 |                          |
|            | 19885.00   | 90.72       | 1.83             | 9895.91     | 9593.63      | 9583.38    | 455.75     | 1.09             | 471842.37        | 708346.67       | N 32 17 45.64 W 103 47 34.20 |                          |
|            | 19980.00   | 90.69       | 2.79             | 9894.74     | 9688.62      | 9678.29    | 459.58     | 1.01             | 471937.28        | 708350.50       | N 32 17 46.58 W 103 47 34.15 |                          |
|            | 20075.00   | 90.65       | 3.18             | 9893.63     | 9783.60      | 9773.16    | 464.53     | 0.41             | 472032.14        | 708355.45       | N 32 17 47.52 W 103 47 34.09 |                          |
|            | 20170.00   | 90.99       | 1.14             | 9892.27     | 9878.58      | 9868.08    | 468.11     | 2.18             | 472127.05        | 708359.03       | N 32 17 48.46 W 103 47 34.04 |                          |
|            | 20265.00   | 90.86       | 0.25             | 9890.74     | 9973.54      | 9963.06    | 469.26     | 0.95             | 472222.03        | 708360.18       | N 32 17 49.40 W 103 47 34.02 |                          |
|            | 20360.00   | 91.51       | 358.69           | 9888.78     | 10068.42     | 10058.03   | 468.38     | 1.78             | 472316.99        | 708359.30       | N 32 17 50.34 W 103 47 34.02 |                          |
|            | 20455.00   | 89.24       | 359.46           | 9888.15     | 10163.28     | 10153.01   | 466.85     | 2.52             | 472411.97        | 708357.77       | N 32 17 51.28 W 103 47 34.04 |                          |
|            | 20550.00   | 89.89       | 0.14             | 9888.87     | 10258.20     | 10248.00   | 466.51     | 0.99             | 472506.96        | 708357.44       | N 32 17 52.22 W 103 47 34.03 |                          |
|            | 20645.00   | 89.96       | 0.27             | 9889.00     | 10353.15     | 10343.00   | 466.85     | 0.16             | 472601.95        | 708357.18       | N 32 17 53.16 W 103 47 34.03 |                          |
|            | 20740.00   | 89.83       | 0.57             | 9889.17     | 10448.11     | 10438.00   | 467.55     | 0.34             | 472696.94        | 708358.47       | N 32 17 54.10 W 103 47 34.01 |                          |
|            | 20835.00   | 89.58       | 359.34           | 9889.66     | 10543.04     | 10533.00   | 467.48     | 1.32             | 472791.93        | 708358.40       | N 32 17 55.04 W 103 47 34.01 |                          |
|            | 20930.00   | 91.72       | 0.18             | 9888.58     | 10637.95     | 10627.98   | 467.08     | 2.42             | 472886.91        | 708358.00       | N 32 17 55.98 W 103 47 34.01 |                          |
|            | 21025.00   | 90.17       | 359.50           | 9887.02     | 10732.86     | 10722.97   | 466.81     | 1.78             | 472981.89        | 708357.73       | N 32 17 56.92 W 103 47 34.00 |                          |
|            | 21120.00   | 90.07       | 0.00             | 9886.82     | 10827.78     | 10817.96   | 466.40     | 0.54             | 473076.88        | 708357.32       | N 32 17 57.86 W 103 47 34.00 |                          |
|            | 21215.00   | 89.21       | 358.98           | 9887.42     | 10922.68     | 10912.96   | 465.55     | 1.40             | 473171.87        | 708356.47       | N 32 17 58.80 W 103 47 34.01 |                          |
|            | 21309.00   | 90.55       | 359.15           | 9887.61     | 11016.54     | 11006.94   | 464.02     | 1.44             | 473265.85        | 708354.94       | N 32 17 59.73 W 103 47 34.02 |                          |
|            | 21404.00   | 90.20       | 359.50           | 9886.99     | 11111.43     | 11101.93   | 462.90     | 0.52             | 473360.83        | 708353.82       | N 32 18 0.67 W 103 47 34.03  |                          |
|            | 21499.00   | 87.93       | 358.69           | 9888.54     | 11206.28     | 11196.90   | 461.40     | 2.54             | 473455.80        | 708352.32       | N 32 18 1.61 W 103 47 34.04  |                          |
|            | 21593.00   | 89.58       | 0.40             | 9890.58     | 11300.16     | 11290.87   | 460.65     | 2.53             | 473549.76        | 708351.58       | N 32 18 2.54 W 103 47 34.04  |                          |
|            | 21688.00   | 89.89       | 359.76           | 9891.02     | 11395.10     | 11385.87   | 460.79     | 0.75             | 473644.75        | 708351.71       | N 32 18 3.48 W 103 47 34.03  |                          |
|            | 21783.00   | 89.21       | 359.82           | 9891.77     | 11490.02     | 11480.86   | 460.44     | 0.72             | 473739.74        | 708351.36       | N 32 18 4.42 W 103 47 34.03  |                          |
|            | 21878.00   | 89.41       | 0.04             | 9892.91     | 11584.94     | 11575.86   | 460.32     | 0.31             | 473834.73        | 708351.24       | N 32 18 5.36 W 103 47 34.03  |                          |
|            | 21973.00   | 89.10       | 359.61           | 9894.15     | 11679.86     | 11670.85   | 460.03     | 0.56             | 473929.71        | 708350.95       | N 32 18 6.30 W 103 47 34.03  |                          |
|            | 22068.00   | 88.48       | 358.88           | 9896.15     | 11774.72     | 11765.82   | 458.78     | 1.01             | 474024.68        | 708349.70       | N 32 18 7.24 W 103 47 34.04  |                          |
|            | 22258.00   | 89.14       | 359.58           | 9900.10     | 11964.44     | 11955.76   | 456.23     | 0.51             | 474214.61        | 708347.15       | N 32 18 9.11 W 103 47 34.05  |                          |
|            | 22448.00   | 89.52       | 359.14           | 9902.32     | 12154.21     | 12145.73   | 454.11     | 0.31             | 474404.57        | 708345.03       | N 32 18 10.99 W 103 47 34.07 |                          |
|            | 22637.00   | 90.68       | 358.65           | 9901.99     | 12342.91     | 12334.69   | 450.46     | 0.67             | 474593.52        | 708341.38       | N 32 18 12.86 W 103 47 34.10 |                          |
|            | 22827.00   | 88.73       | 357.19           | 9902.97     | 12532.40     | 12524.55   | 443.57     | 1.28             | 474783.36        | 708334.49       | N 32 18 14.74 W 103 47 34.17 |                          |
| 100' FNL   | 22865.00   | 89.08       | 358.33           | 9903.70     | 12570.28     | 12562.51   | 442.08     | 3.14             | 474821.33        | 708333.00       | N 32 18 15.12 W 103 47 34.18 |                          |
| Crossed    |            |             |                  |             |              |            |            |                  |                  |                 |                              |                          |
| Final MWD  | 22901.00   | 89.41       | 359.41           | 9904.17     | 12606.22     | 12598.50   | 441.37     | 3.14             | 474857.31        | 708332.29       | N 32 18 15.48 W 103 47 34.19 |                          |
| Proj to TD | 22944.00   | 89.41       | 359.41           | 9904.61     | 12649.17     | 12641.50   | 440.93     | 0.00             | 474900.31        | 708331.85       | N 32 18 15.90 W 103 47 34.19 |                          |

Survey Type: Def Survey

Survey Error Model: ISCWSA Rev 0 \*\*\* 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           | 26.500        | 1/98.425         | 30.000    | 30.000                  | NAL_NSG+MSHOT-Depth Only | Original Borehole / Oxy Pure Gold<br>MDP1 29-17 Federal Com 6H<br>Gyro + IFR 0-22944'MD |
|             | 1    | 26.500          | 26.500        | Act Stns         | 30.000    | 30.000                  | NAL_NSG+MSHOT-Depth Only | Original Borehole / Oxy Pure Gold<br>MDP1 29-17 Federal Com 6H<br>Gyro + IFR 0-22944'MD |
|             | 1    | 26.500          | 690.400       | Act Stns         | 30.000    | 30.000                  | NAL_NSG+MSHOT            | Original Borehole / Oxy Pure Gold<br>MDP1 29-17 Federal Com 6H                          |
|             | 1    | 690.400         | 22944.000     | Act Stns         | 30.000    | 30.000                  | NAL_MWD_IFR1+MS          | Original Borehole / Oxy Pure Gold<br>MDP1 29-17 Federal Com 6H                          |

...Original Borehole/Oxy Pure Gold MDP1 29-17 Federal Com 6H Gyro + IFR 0-22944'MD

# Schlumberger

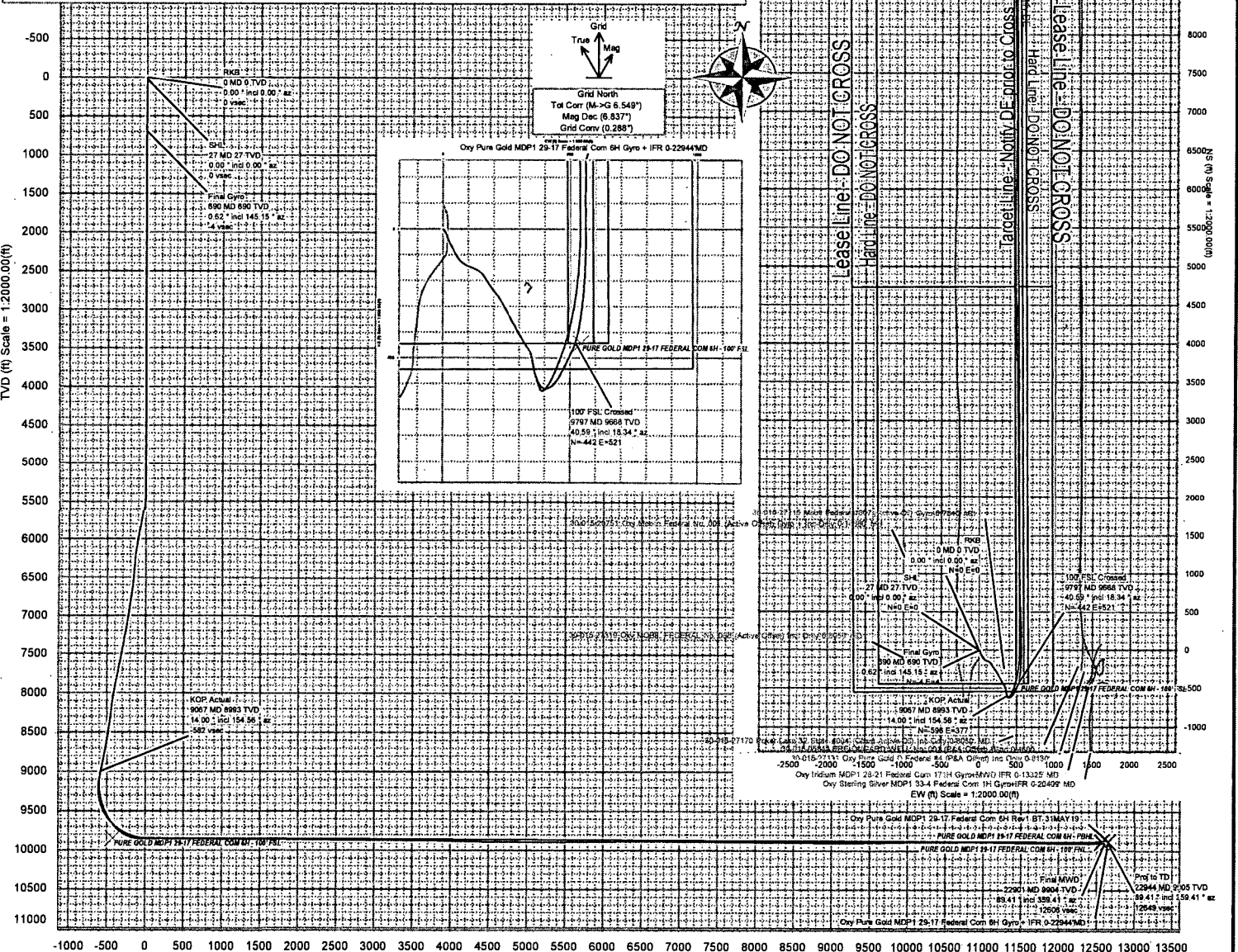
OXY



| Borehole:         | Well:                                   | Field:                  | Structure:                              |
|-------------------|-----------------------------------------|-------------------------|-----------------------------------------|
| Original Borehole | Oxy Pure Gold MDP1 29-17 Federal Com 6H | NM Eddy County (NAD 83) | Oxy Pure Gold MDP1 29-17 Federal Com 6H |

| Gravity & Magnetic Parameters |               |                                         |  | Surface Location    |                         |                       |  | Miscellaneous                                                      |                                        |  |  |
|-------------------------------|---------------|-----------------------------------------|--|---------------------|-------------------------|-----------------------|--|--------------------------------------------------------------------|----------------------------------------|--|--|
| Model: IFR1                   | Dip: 89.98°   | Date: 31-May-2019                       |  | Lat: N 32 16 16.64  | Northings: 462259.680US | Grid Conv: 0.2877     |  | Slot: Oxy Pure Gold MDP1 29-17                                     | TVD Ref: RKB=26.5' (3386.98 above MSL) |  |  |
| MagDec: 6.837°                | FS: 47948.9nT | Gravity FS: 988.462mgal (9.80665 Based) |  | Lon: W 103 47 40.97 | Eastings: 707890.960US  | Scale Fact: 0.9994086 |  | Plan: Oxy Pure Gold MDP1 29-17 Federal Com 6H Gyro + IFR 0-22944MD |                                        |  |  |

| Critical Points  |          |       |        |         |          |          |          |       |  |
|------------------|----------|-------|--------|---------|----------|----------|----------|-------|--|
| Critical Point   | MD       | INCL  | AZIM   | TVD     | VSEC     | N(°)S(-) | E(°)W(-) | DLS   |  |
| RKB              | 0.00     | 0.00  | 0.00   | 0.00    | 0.00     | 0.00     | 0.00     |       |  |
| SHL              | 26.50    | 0.00  | 0.00   | 26.50   | 0.00     | 0.00     | 0.00     | 0.00  |  |
| Final Gyro       | 690.40   | 0.62  | 145.15 | 690.37  | -4.22    | -4.36    | 3.75     | 0.37  |  |
| KOP Actual       | 9067.00  | 14.00 | 154.56 | 8993.48 | -582.19  | -596.35  | 377.39   | 0.92  |  |
| 100' FSL Crossed | 9797.00  | 40.59 | 18.34  | 9667.68 | -422.69  | -441.99  | 521.37   | 10.04 |  |
| 100' FNL Crossed | 22865.00 | 89.08 | 358.33 | 9903.70 | 12570.28 | 12562.51 | 442.08   | 3.14  |  |
| Final MWD        | 22901.00 | 89.41 | 359.41 | 9904.17 | 12606.22 | 12598.50 | 441.37   | 3.14  |  |
| Proj to TD       | 22944.00 | 89.41 | 359.41 | 9904.61 | 12649.17 | 12641.50 | 440.93   | 0.00  |  |



Vertical Section (ft) Azim = 2.09° Scale = 1:2000.00(ft) Origin = 0N-S, 0E-W