

Schlumberger Services, Central U.S. Unit  
**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)  
Fax : (432) 742-5606 (Shared)

# Schlumberger

**NM OIL CONSERVATION  
ARTESIA DISTRICT**

30-015-44194

JUL 03 2018

Well Reference:

8, 19S, 29E, Eddy NM  
N 32.67030 W -104.09028

**RECEIVED**

I, Tyler Matthews certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of May 19, 2018 through June 01, 2018, conduct or supervise the taking of the TelePacer surveys from a depth of 8402.00 feet to a depth of 19214.00 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 WTP LP for the Turkey Track 9-10 State 33H Well (Original Hole) API No. 30-015-44194 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.

*Tyler Matthews*  
By  
Tyler Matthews  
FE

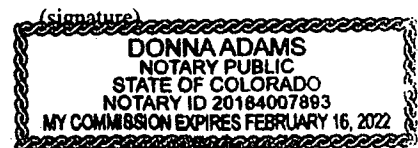
Subscribed and Sworn to before me this 26<sup>th</sup> day of June (month) 2018 (yr)

My Commission expires:

2-16-2022

Notary Public

Donna Adams  
Adams County Colorado  
(County State)



Drilling Services, Central U.S. Unit  
**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

June 26, 2018

**NM OIL CONSERVATION  
ARTESIA DISTRICT**

OXY USA WTP LP

**JUL 03 2018**

**RECEIVED**

Re:

8, 19S, 29E, Eddy NM  
N 32.67030 W -104.09028

CLIENT: OXY USA WTP LP  
WELL: Turkey Track 9-10 State 33H  
FIELD: Bone Spring

RIG: H&P 617  
COUNTY: Eddy  
API NO: 30-015-44194  
JOB NO: 18MLD2977

Enclosed, please find the original copy of the survey performed on the referenced well by Drilling & Measurements, a division of Schlumberger Technology Corporation (P-5 No. 754900).  
Other information required by your office is as follows.

| <u>Name &amp; Title of<br/>Surveyor</u> | <u>Drainhole Number</u>                         | <u>Surveyed Depths</u>       | <u>Dates Performed</u>          | <u>Type of Survey</u> |
|-----------------------------------------|-------------------------------------------------|------------------------------|---------------------------------|-----------------------|
| Tyler Matthews<br>FE                    | Turkey Track 9-10<br>State 33H<br>Original Hole | 8402.00 Ft to<br>19214.00 Ft | May 19, 2018 to<br>June 1, 2018 | TelePacer             |

If any other information is required, please contact the undersigned at the above letterhead and phone number.  
Sincerely,

Cody Nelms  
Field Service Manager

# Oxy Turkey Track 9-10 State 33H Gyro+MWD 0-19,258' Survey Geodetic Report (Def Survey)



|                                      |                                                                   |                                             |                              |
|--------------------------------------|-------------------------------------------------------------------|---------------------------------------------|------------------------------|
| <b>Report Date:</b>                  | June 01, 2018 - 10:14 AM                                          | <b>Survey / DLS Computation:</b>            | Minimum Curvature / Lubinski |
| <b>Client:</b>                       | OXY                                                               | <b>Vertical Section Azimuth:</b>            | 85.448 ° (Grid North)        |
| <b>Field:</b>                        | NM Eddy County (NAD 83)                                           | <b>Vertical Section Origin:</b>             | 0.000 ft. 0.000 ft           |
| <b>Structure / Slot:</b>             | Oxy Turkey Track 9-10 State 33H / Oxy Turkey Track 9-10 State 33H | <b>TVD Reference Datum:</b>                 | RKB=26.5'                    |
| <b>Well:</b>                         | Oxy Turkey Track 9-10 State 33H                                   | <b>TVD Reference Elevation:</b>             | 3406.100 ft above MSL        |
| <b>Borehole:</b>                     | Original Borehole                                                 | <b>Seabed / Ground Elevation:</b>           | 3379.600 ft above MSL        |
| <b>UWI / APH:</b>                    | Unknown / 30-015-44194                                            | <b>Magnetic Declination:</b>                | 7.393 °                      |
| <b>Survey Name:</b>                  | Oxy Turkey Track 9-10 State 33H Gyro+MWD 0-19,258'                | <b>Total Gravity Field Strength:</b>        | 998.5131mgN (9.80665 Based)  |
| <b>Survey Date:</b>                  | May 16, 2018                                                      | <b>Gravity Model:</b>                       | GARM                         |
| <b>Tort / AHD / DDI / ERD Ratio:</b> | 189.803 ° / 11457.432 ft / 6.673 / 1.287                          | <b>Total Magnetic Field Strength:</b>       | 48095.787 nT                 |
| <b>Coordinate Reference System:</b>  | NAD83 New Mexico State Plane, Eastern Zone, US Feet               | <b>Magnetic Dip Angle:</b>                  | 60.475 °                     |
| <b>Location Lat / Long:</b>          | N 32° 40' 13.06785", W 104° 5' 24.99365"                          | <b>Declination Date:</b>                    | May 16, 2018                 |
| <b>Location Grid N/E Y/X:</b>        | N 607670.620 RUS, E 616129.180 RUS                                | <b>Magnetic Declination Model:</b>          | HDGM 2018                    |
| <b>CRS Grid Convergence Angle:</b>   | 0.1312 °                                                          | <b>North Reference:</b>                     | Grid North                   |
| <b>Grid Scale Factor:</b>            | 0.9999155                                                         | <b>Grid Convergence Used:</b>               | 0.1312 °                     |
| <b>Version / Patch:</b>              | 2.10.720.0                                                        | <b>Total Corr Mag North-&gt;Grid North:</b> | 7.2614 °                     |
|                                      |                                                                   | <b>Local Coord Referenced To:</b>           | Well Head                    |

**NM OIL CONSERVATION  
ARTESIA DISTRICT**

**JUL 03 2018**

**RECEIVED**

| 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 ° ' ") |
|----------|------------|-------------|------------------|-------------|--------------|------------|------------|-------------------|--------------------|-------------------|-------------------------|--------------------------|
| RKB      | 0.00       | 0.00        | 0.00             | 0.00        | 0.00         | 0.00       | 0.00       | N/A               | 607670.62          | 616129.18         | N 32 40 13.07           | W 104 5 24.99            |
| SHL      | 26.50      | 0.00        | 0.00             | 26.50       | 0.00         | 0.00       | 0.00       | 0.00              | 607670.62          | 616129.18         | N 32 40 13.07           | W 104 5 24.99            |
|          | 33.50      | 1.56        | 4.64             | 33.50       | 0.02         | 0.09       | 0.01       | 22.29             | 607670.71          | 616129.19         | N 32 40 13.07           | W 104 5 24.99            |
|          | 125.50     | 1.55        | 359.58           | 125.47      | 0.30         | 2.59       | 0.10       | 0.15              | 607673.21          | 616129.28         | N 32 40 13.09           | W 104 5 24.99            |
|          | 217.50     | 0.57        | 304.62           | 217.45      | 0.04         | 4.09       | -0.29      | 1.42              | 607674.71          | 616128.89         | N 32 40 13.11           | W 104 5 25.00            |
|          | 310.50     | 0.84        | 268.92           | 310.44      | -1.00        | 4.34       | -1.35      | 0.54              | 607674.96          | 616127.83         | N 32 40 13.11           | W 104 5 25.01            |
|          | 402.50     | 1.21        | 257.44           | 402.43      | -2.63        | 4.12       | -2.97      | 0.46              | 607674.74          | 616126.21         | N 32 40 13.11           | W 104 5 25.03            |
|          | 493.50     | 1.13        | 238.21           | 493.41      | -4.38        | 3.44       | -4.67      | 0.44              | 607674.06          | 616124.51         | N 32 40 13.10           | W 104 5 25.05            |
|          | 525.50     | 1.12        | 234.55           | 525.40      | -4.93        | 3.09       | -5.19      | 0.23              | 607673.71          | 616123.99         | N 32 40 13.10           | W 104 5 25.05            |
|          | 619.50     | 1.03        | 230.64           | 619.39      | -6.41        | 2.02       | -6.60      | 0.12              | 607672.64          | 616122.58         | N 32 40 13.09           | W 104 5 25.07            |
|          | 714.50     | 0.84        | 230.33           | 714.37      | -7.69        | 1.03       | -7.79      | 0.20              | 607671.65          | 616121.39         | N 32 40 13.08           | W 104 5 25.08            |
|          | 808.50     | 0.17        | 218.28           | 808.37      | -8.34        | 0.48       | -8.41      | 0.72              | 607671.10          | 616120.77         | N 32 40 13.07           | W 104 5 25.09            |
|          | 903.50     | 0.03        | 198.88           | 903.37      | -8.45        | 0.35       | -8.50      | 0.15              | 607670.97          | 616120.68         | N 32 40 13.07           | W 104 5 25.09            |
|          | 997.50     | 0.02        | 195.93           | 997.37      | -8.46        | 0.31       | -8.52      | 0.01              | 607670.93          | 616120.66         | N 32 40 13.07           | W 104 5 25.09            |
|          | 1092.50    | 0.02        | 198.93           | 1092.37     | -8.48        | 0.28       | -8.53      | 0.00              | 607670.90          | 616120.65         | N 32 40 13.07           | W 104 5 25.09            |
|          | 1186.50    | 0.02        | 207.39           | 1186.37     | -8.49        | 0.25       | -8.54      | 0.00              | 607670.87          | 616120.64         | N 32 40 13.07           | W 104 5 25.09            |
|          | 1281.50    | 0.02        | 189.19           | 1281.37     | -8.51        | 0.22       | -8.55      | 0.01              | 607670.84          | 616120.63         | N 32 40 13.07           | W 104 5 25.09            |
|          | 1375.50    | 0.02        | 188.25           | 1375.37     | -8.51        | 0.19       | -8.55      | 0.00              | 607670.81          | 616120.63         | N 32 40 13.07           | W 104 5 25.09            |
|          | 1469.50    | 0.02        | 200.33           | 1469.37     | -8.52        | 0.15       | -8.56      | 0.00              | 607670.77          | 616120.62         | N 32 40 13.07           | W 104 5 25.09            |
|          | 1564.50    | 0.02        | 300.86           | 1564.37     | -8.54        | 0.15       | -8.58      | 0.03              | 607670.77          | 616120.60         | N 32 40 13.07           | W 104 5 25.09            |
|          | 1658.50    | 0.01        | 300.01           | 1658.37     | -8.56        | 0.16       | -8.60      | 0.01              | 607670.78          | 616120.58         | N 32 40 13.07           | W 104 5 25.09            |
|          | 1753.50    | 0.01        | 310.85           | 1753.37     | -8.58        | 0.17       | -8.62      | 0.00              | 607670.79          | 616120.56         | N 32 40 13.07           | W 104 5 25.09            |
|          | 1847.50    | 0.01        | 320.30           | 1847.37     | -8.59        | 0.18       | -8.63      | 0.00              | 607670.80          | 616120.55         | N 32 40 13.07           | W 104 5 25.09            |
|          | 1942.50    | 0.02        | 341.28           | 1942.37     | -8.60        | 0.20       | -8.64      | 0.01              | 607670.82          | 616120.54         | N 32 40 13.07           | W 104 5 25.09            |
|          | 2036.50    | 0.07        | 353.92           | 2036.37     | -8.60        | 0.28       | -8.65      | 0.05              | 607670.90          | 616120.53         | N 32 40 13.07           | W 104 5 25.09            |
|          | 2131.50    | 0.08        | 355.26           | 2131.37     | -8.60        | 0.40       | -8.66      | 0.01              | 607671.02          | 616120.52         | N 32 40 13.07           | W 104 5 25.09            |
|          | 2226.50    | 0.09        | 355.22           | 2226.37     | -8.60        | 0.54       | -8.67      | 0.01              | 607671.16          | 616120.51         | N 32 40 13.07           | W 104 5 25.10            |
|          | 2320.50    | 0.06        | 353.16           | 2320.37     | -8.61        | 0.68       | -8.69      | 0.03              | 607671.28          | 616120.49         | N 32 40 13.07           | W 104 5 25.10            |
|          | 2415.50    | 0.01        | 142.85           | 2415.37     | -8.60        | 0.71       | -8.69      | 0.07              | 607671.33          | 616120.49         | N 32 40 13.08           | W 104 5 25.10            |
|          | 2509.50    | 0.01        | 141.34           | 2509.37     | -8.59        | 0.69       | -8.68      | 0.00              | 607671.31          | 616120.50         | N 32 40 13.07           | W 104 5 25.10            |
|          | 2604.50    | 0.01        | 157.68           | 2604.37     | -8.59        | 0.68       | -8.67      | 0.00              | 607671.30          | 616120.51         | N 32 40 13.07           | W 104 5 25.10            |
|          | 2698.50    | 0.01        | 189.21           | 2698.37     | -8.59        | 0.66       | -8.67      | 0.01              | 607671.28          | 616120.51         | N 32 40 13.07           | W 104 5 25.10            |
|          | 2793.50    | 0.01        | 230.46           | 2793.37     | -8.60        | 0.65       | -8.67      | 0.01              | 607671.27          | 616120.51         | N 32 40 13.07           | W 104 5 25.10            |
|          | 2887.50    | 0.01        | 229.25           | 2887.37     | -8.61        | 0.64       | -8.69      | 0.00              | 607671.26          | 616120.49         | N 32 40 13.07           | W 104 5 25.10            |
|          | 2981.50    | 0.01        | 223.45           | 2981.37     | -8.62        | 0.63       | -8.70      | 0.00              | 607671.25          | 616120.48         | N 32 40 13.07           | W 104 5 25.10            |
|          | 3076.50    | 0.01        | 208.92           | 3076.37     | -8.63        | 0.61       | -8.71      | 0.00              | 607671.23          | 616120.47         | N 32 40 13.07           | W 104 5 25.10            |
|          | 3170.50    | 0.18        | 3.46             | 3170.37     | -8.62        | 0.75       | -8.70      | 0.20              | 607671.37          | 616120.48         | N 32 40 13.08           | W 104 5 25.10            |
|          | 3265.50    | 0.21        | 4.63             | 3265.37     | -8.57        | 1.08       | -8.68      | 0.03              | 607671.70          | 616120.50         | N 32 40 13.08           | W 104 5 25.10            |
|          | 3359.50    | 0.24        | 3.01             | 3359.37     | -8.51        | 1.44       | -8.66      | 0.03              | 607672.06          | 616120.52         | N 32 40 13.08           | W 104 5 25.09            |
|          | 3454.50    | 1.18        | 39.30            | 3454.36     | -7.81        | 2.40       | -8.03      | 1.05              | 607673.02          | 616121.15         | N 32 40 13.09           | W 104 5 25.09            |
|          | 3548.50    | 2.81        | 43.91            | 3548.30     | -5.41        | 4.81       | -5.81      | 1.74              | 607675.43          | 616123.37         | N 32 40 13.12           | W 104 5 25.06            |
|          | 3643.50    | 4.45        | 46.73            | 3643.11     | -0.80        | 9.01       | -1.52      | 1.74              | 607679.63          | 616127.66         | N 32 40 13.16           | W 104 5 25.01            |
|          | 3737.50    | 6.19        | 47.35            | 3736.70     | 6.04         | 14.85      | -4.87      | 1.85              | 607685.57          | 616134.05         | N 32 40 13.22           | W 104 5 24.94            |
|          | 3832.50    | 8.02        | 47.03            | 3830.96     | 15.26        | 22.94      | 13.48      | 1.93              | 607693.55          | 616142.66         | N 32 40 13.29           | W 104 5 24.84            |
|          | 3926.50    | 9.34        | 45.61            | 3923.89     | 26.26        | 32.74      | 23.73      | 1.42              | 607703.36          | 616152.91         | N 32 40 13.39           | W 104 5 24.72            |
|          | 4021.50    | 11.25       | 40.90            | 4017.35     | 38.78        | 45.14      | 35.31      | 2.20              | 607715.76          | 616164.49         | N 32 40 13.51           | W 104 5 24.58            |
|          | 4115.50    | 13.87       | 36.64            | 4109.10     | 52.74        | 61.11      | 48.04      | 2.95              | 607731.73          | 616177.22         | N 32 40 13.67           | W 104 5 24.43            |
|          | 4210.50    | 15.36       | 29.42            | 4201.03     | 67.27        | 81.21      | 61.02      | 2.47              | 607751.83          | 616190.19         | N 32 40 13.87           | W 104 5 24.28            |
|          | 4305.50    | 15.14       | 17.84            | 4292.71     | 79.03        | 103.99     | 71.00      | 3.21              | 607774.60          | 616200.18         | N 32 40 14.10           | W 104 5 24.16            |
|          | 4399.50    | 14.87       | 10.76            | 4383.51     | 86.89        | 127.52     | 77.01      | 1.97              | 607798.13          | 616206.19         | N 32 40 14.33           | W 104 5 24.09            |
|          | 4494.50    | 14.56       | 9.85             | 4475.39     | 93.08        | 151.26     | 81.33      | 0.41              | 607821.87          | 616210.51         | N 32 40 14.56           | W 104 5 24.04            |
|          | 4588.50    | 14.75       | 11.03            | 4566.33     | 99.23        | 174.65     | 85.64      | 0.38              | 607845.26          | 616214.82         | N 32 40 14.79           | W 104 5 23.99            |
|          | 4683.50    | 14.77       | 14.51            | 4658.20     | 106.44       | 198.24     | 90.99      | 0.93              | 607868.85          | 616220.16         | N 32 40 15.03           | W 104 5 23.92            |
|          | 4778.50    | 14.80       | 17.61            | 4750.06     | 114.97       | 221.53     | 97.70      | 0.83              | 607892.13          | 616226.87         | N 32 40 15.26           | W 104 5 23.84            |
|          | 4872.50    | 14.81       | 20.57            | 4840.94     | 124.60       | 244.23     | 105.55     | 0.80              | 607914.82          | 616234.72         | N 32 40 15.48           | W 104 5 23.75            |
|          | 4967.50    | 14.38       | 23.57            | 4932.87     | 135.32       | 266.41     | 114.53     | 0.92              | 607937.00          | 616243.70         | N 32 40 15.70           | W 104 5 23.65            |
|          | 5061.50    | 13.76       | 26.28            | 5024.05     | 146.55       | 287.13     | 124.15     | 0.96              | 607957.72          | 616253.32         | N 32 40 15.91           | W 104 5 23.53            |
|          | 5156.50    | 13.71       | 28.03            | 5116.34     | 158.40       | 307.20     | 134.44     | 0.44              | 607977.79          | 616263.61         | N 32 40 16.10           | W 104 5 23.41            |
|          | 5250.50    | 13.78       | 27.47            | 5207.65     | 170.33       | 326.96     | 144.84     | 0.16              | 607997.55          | 616274.01         | N 32 40 16.30           | W 104 5 23.29            |
|          | 5345.50    | 13.53       | 27.61            | 5299.96     | 182.25       | 346.85     | 155.21     | 0.27              | 608017.44          | 616284.38         | N 32 40 16.50           | W 104 5 23.17            |
|          | 5440.50    | 13.09       | 28.11            | 5392.41     | 193.97       | 366.18     | 165.43     | 0.48              | 608036.77          | 616294.60         | N 32 40 16.69           | W 104 5 23.05            |
|          | 5534.50    | 12.85       | 28.30            | 5484.01     | 205.39       | 384.78     | 175.40     | 0.26              | 608055.36          | 616304.57         | N 32 40 16.87           | W 104 5 22.93            |
|          | 5629.50    | 12.61       | 28.66            | 5578.68     | 216.80       | 403.18     | 185.38     | 0.27              | 608073.76          | 616314.55         | N 32 40 17.05           | W 104 5 22.81            |
|          | 5723.50    | 12.38       | 28.75            | 5668.45     | 227.95       | 421.02     | 195.15     | 0.25              | 608091.60          | 616324.31         | N 32 40 17.23           | W 104 5 22.70            |
|          | 5818.50    | 12.12       | 28.03            | 5761.29     | 238.91       | 438.75     | 204.74     | 0.32              | 608109.33          | 616333.90         | N 32 40 17.40           | W 104 5 22.59            |
|          | 5912.50    | 11.87       | 27.21            | 5853.23     | 249.31       | 456.06     | 213.79     | 0.32              | 608126.64          | 616342.96         | N 32 40 17.58           | W 104 5 22.48            |
|          | 6007.50    | 11.53       | 26.39            | 5946.26     | 259.34       | 473.25     | 222.48     | 0.40              | 608143.83          | 616351.64         | N 32 40 17.75           | W 104 5 22.38            |
|          | 6101.50    | 10.99       | 25.81            | 6038.45     | 268.70       | 489.73     | 230.56     | 0.59              | 608160.31          | 616359.72         | N 32 40 17.91           | W 104 5 22.28            |
|          | 6196.50    | 10.27       | 25.79            | 6131.82     | 277.55       | 505.51     | 238.19     | 0.76              | 608176.09          | 616367.35         | N 32 40 18.06           | W 104 5 22.19            |
|          | 6290.50    | 9.69        | 26.22            | 6224.40     | 285.83       | 520.15     | 245.33     | 0.62              | 608190.73          | 616374.49         | N 32 40 18.21           | W 104 5 22.11            |
|          | 6385.50    | 8.58        | 26.05            | 6318.19     | 293.53       | 533.69     | 251.97     | 1.17              | 608204.26          | 616381.13         | N 32 40 18.34           | W 104 5 22.03            |
|          | 6479.50    | 7.51        | 23.20            | 6411.28     | 299.96       | 545.64     | 257.47     | 1.21              | 608216.21          | 616386.83         | N 32 40 18.46           | W 104 5 21.97            |
|          | 6574.50    | 7.24        | 19.98            | 6505.48     | 305.34       | 556.97     | 261.96     | 0.52              | 608227.54          | 616391.12         | N 32 40 18.57           | W 104 5 21.91            |
|          | 6669.50    | 7.10        | 17.45            | 6599.74     | 310.02       | 568.20     | 265.77     | 0.36              | 608238.77          | 616394.93         | N 32 40 18.68           | W 104 5 21.87            |
|          | 6763.50    | 6.62        | 16.63            | 6693.06     | 314.16       | 578.93     | 269.06     | 0.52              | 608249.50          | 616398.22         | N 32 40 18.79           | W 104 5 21.83            |
|          | 6858.50    | 6.22        | 14.81            | 6787.47     | 317.84       | 589.15     | 271.94     | 0.47              | 608259.72          | 616401.10         | N 32 40 18.89           | W 104 5 21.80            |
|          | 6952.50    | 5.66        | 13.40            | 6880.93     | 321.06       | 598.90     | 274.40     | 0.23              | 608269.47          | 616403.55         | N 32 40 18.99           | W 104 5 21.77            |
|          | 7047.50    | 5.00        | 12.90            | 6975.44     | 323.97       | 608.22     | 276.50     | 0.59              | 608278.78          | 616405.73         | N 32 40 19.08           |                          |

| Comments | MD       | Incl  | Azim  | Grd     | TVD     | VSEC   | NS      | EW    | OLS       | Nothing   | Eastng                      | Latitude | Longitude |
|----------|----------|-------|-------|---------|---------|--------|---------|-------|-----------|-----------|-----------------------------|----------|-----------|
|          | 7141.50  | 6.12  | 10.76 | 7068.96 | 328.65  | 617.53 | 278.51  | 0.70  | 608288.10 | 616407.67 | N 32 40 18.17 W 104 5 21.72 |          |           |
|          | 7236.50  | 6.27  | 9.01  | 7163.41 | 329.20  | 627.63 | 280.27  | 0.25  | 608298.20 | 616408.43 | N 32 40 18.27 W 104 5 21.76 |          |           |
|          | 7256.50  | 5.95  | 10.00 | 7257.87 | 331.65  | 637.60 | 281.94  | 0.35  | 608308.17 | 616411.02 | N 32 40 18.37 W 104 5 21.80 |          |           |
|          | 7425.50  | 5.43  | 11.33 | 7351.40 | 334.09  | 646.78 | 283.66  | 0.57  | 608317.33 | 616412.62 | N 32 40 18.48 W 104 5 21.86 |          |           |
|          | 7520.50  | 5.72  | 10.86 | 7444.95 | 338.58  | 655.82 | 285.44  | 0.31  | 608326.38 | 616414.59 | N 32 40 18.55 W 104 5 21.94 |          |           |
|          | 7615.50  | 5.69  | 13.43 | 7540.48 | 339.29  | 665.05 | 287.42  | 0.27  | 608335.61 | 616416.58 | N 32 40 18.64 W 104 5 21.91 |          |           |
|          | 7709.50  | 5.39  | 15.84 | 7634.04 | 342.27  | 673.63 | 288.71  | 0.40  | 608344.39 | 616418.61 | N 32 40 18.73 W 104 5 21.95 |          |           |
|          | 7804.50  | 5.23  | 20.65 | 7728.94 | 345.67  | 682.17 | 292.45  | 0.50  | 608352.73 | 616421.19 | N 32 40 18.81 W 104 5 21.99 |          |           |
|          | 7893.50  | 5.18  | 28.34 | 7822.25 | 349.80  | 689.92 | 300.58  | 0.74  | 608360.46 | 616423.67 | N 32 40 18.89 W 104 5 22.01 |          |           |
|          | 8002.50  | 5.19  | 35.68 | 7916.85 | 354.90  | 697.18 | 305.96  | 0.70  | 608367.18 | 616426.13 | N 32 40 18.96 W 104 5 22.06 |          |           |
|          | 8162.50  | 5.35  | 46.14 | 8010.47 | 361.04  | 705.67 | 308.16  | 1.63  | 608374.23 | 616431.31 | N 32 40 19.06 W 104 5 21.39 |          |           |
|          | 8278.50  | 7.96  | 72.24 | 8198.16 | 369.12  | 713.64 | 314.43  | 2.51  | 608379.72 | 616434.78 | N 32 40 19.16 W 104 5 21.59 |          |           |
|          | 8373.00  | 8.63  | 65.11 | 8293.45 | 381.25  | 717.64 | 325.64  | 1.65  | 608384.20 | 616437.93 | N 32 40 19.26 W 104 5 21.39 |          |           |
|          | 8402.00  | 15.03 | 65.52 | 8322.02 | 398.96  | 721.60 | 328.76  | 1.63  | 608392.16 | 616439.58 | N 32 40 19.36 W 104 5 21.07 |          |           |
|          | 8406.00  | 22.50 | 63.86 | 8411.02 | 429.51  | 728.80 | 331.76  | 2.22  | 608397.18 | 616442.93 | N 32 40 19.46 W 104 5 20.85 |          |           |
|          | 8491.00  | 36.38 | 82.82 | 8496.41 | 427.00  | 733.46 | 327.87  | 10.09 | 608404.01 | 616443.26 | N 32 40 19.57 W 104 5 20.61 |          |           |
|          | 8689.00  | 36.38 | 76.81 | 8575.37 | 521.60  | 742.70 | 464.12  | 8.26  | 608413.28 | 616445.89 | N 32 40 19.67 W 104 5 19.84 |          |           |
|          | 8720.00  | 46.48 | 71.42 | 8646.53 | 565.05  | 750.16 | 524.37  | 11.30 | 608420.71 | 616447.98 | N 32 40 20.01 W 104 5 18.84 |          |           |
|          | 8874.00  | 56.08 | 68.55 | 8706.27 | 653.60  | 765.34 | 559.14  | 10.45 | 608435.69 | 616450.58 | N 32 40 20.41 W 104 5 17.94 |          |           |
|          | 8889.00  | 62.25 | 70.54 | 8733.96 | 723.01  | 813.78 | 669.53  | 6.78  | 608444.33 | 616458.66 | N 32 40 20.82 W 104 5 17.13 |          |           |
|          | 9063.00  | 80.49 | 80.19 | 8807.28 | 909.07  | 861.39 | 843.37  | 8.34  | 608453.36 | 616461.99 | N 32 40 21.57 W 104 5 15.16 |          |           |
|          | 9158.00  | 89.10 | 85.86 | 8815.80 | 1002.47 | 872.71 | 934.16  | 10.95 | 608455.39 | 616472.47 | N 32 40 21.68 W 104 5 14.12 |          |           |
|          | 9415.00  | 89.44 | 85.60 | 8815.80 | 1166.46 | 884.65 | 1098.70 | 0.26  | 608455.39 | 616472.47 | N 32 40 21.68 W 104 5 14.12 |          |           |
|          | 9510.00  | 89.72 | 86.19 | 8816.58 | 1260.45 | 891.65 | 1193.45 | 0.69  | 608456.19 | 616472.76 | N 32 40 21.68 W 104 5 11.01 |          |           |
|          | 9604.00  | 89.66 | 87.39 | 8819.08 | 1354.42 | 896.91 | 1287.30 | 1.28  | 608456.19 | 616472.76 | N 32 40 21.68 W 104 5 11.01 |          |           |
|          | 9703.00  | 89.44 | 87.31 | 8820.57 | 1543.30 | 905.24 | 1476.11 | 0.15  | 608456.19 | 616472.76 | N 32 40 21.68 W 104 5 11.01 |          |           |
|          | 9888.00  | 89.44 | 87.31 | 8821.42 | 1639.24 | 909.49 | 1664.90 | 0.14  | 608456.19 | 616472.76 | N 32 40 21.68 W 104 5 11.01 |          |           |
|          | 10077.00 | 88.60 | 86.77 | 8824.04 | 1827.19 | 919.02 | 1759.51 | 0.18  | 608456.19 | 616472.76 | N 32 40 21.68 W 104 5 11.01 |          |           |
|          | 10171.00 | 88.55 | 87.34 | 8825.56 | 1921.09 | 923.85 | 1853.61 | 0.33  | 608456.19 | 616472.76 | N 32 40 21.68 W 104 5 11.01 |          |           |
|          | 10266.00 | 88.66 | 88.22 | 8826.21 | 2016.83 | 927.83 | 1946.54 | 0.93  | 608456.19 | 616472.76 | N 32 40 21.68 W 104 5 11.01 |          |           |
|          | 10360.00 | 88.38 | 88.22 | 8827.00 | 2109.83 | 929.36 | 2042.52 | 1.45  | 608456.19 | 616472.76 | N 32 40 21.68 W 104 5 11.01 |          |           |
|          | 10454.00 | 89.44 | 89.24 | 8827.98 | 2204.60 | 930.36 | 2137.50 | 0.33  | 608456.19 | 616472.76 | N 32 40 21.68 W 104 5 11.01 |          |           |
|          | 10643.00 | 89.50 | 89.24 | 8829.72 | 2392.17 | 932.65 | 2325.48 | 0.07  | 608456.19 | 616472.76 | N 32 40 21.68 W 104 5 11.01 |          |           |
|          | 10728.00 | 89.38 | 89.32 | 8830.65 | 2486.94 | 933.75 | 2420.47 | 0.13  | 608456.19 | 616472.76 | N 32 40 21.68 W 104 5 11.01 |          |           |
|          | 10822.00 | 89.55 | 89.38 | 8831.52 | 2580.72 | 934.82 | 2514.46 | 0.19  | 608456.19 | 616472.76 | N 32 40 21.68 W 104 5 11.01 |          |           |
|          | 10927.00 | 89.38 | 90.03 | 8832.41 | 2679.06 | 935.30 | 2609.46 | 0.71  | 608456.19 | 616472.76 | N 32 40 21.68 W 104 5 11.01 |          |           |
|          | 11021.00 | 89.55 | 91.29 | 8833.29 | 2769.96 | 934.82 | 2703.44 | 0.12  | 608456.19 | 616472.76 | N 32 40 21.68 W 104 5 11.01 |          |           |
|          | 11116.00 | 89.50 | 91.39 | 8834.08 | 2868.55 | 932.00 | 2798.41 | 0.12  | 608456.19 | 616472.76 | N 32 40 21.68 W 104 5 11.01 |          |           |
|          | 11209.00 | 89.55 | 91.28 | 8834.85 | 2968.56 | 929.83 | 2893.39 | 0.13  | 608456.19 | 616472.76 | N 32 40 21.68 W 104 5 11.01 |          |           |
|          | 11300.00 | 89.50 | 91.38 | 8835.60 | 3068.58 | 927.72 | 2988.36 | 0.12  | 608456.19 | 616472.76 | N 32 40 21.68 W 104 5 11.01 |          |           |
|          | 11391.00 | 89.38 | 91.47 | 8836.49 | 3167.08 | 925.46 | 3073.33 | 0.18  | 608456.19 | 616472.76 | N 32 40 21.68 W 104 5 11.01 |          |           |
|          | 11573.00 | 89.55 | 91.18 | 8838.19 | 3318.11 | 921.23 | 3253.27 | 0.26  | 608456.19 | 616472.76 | N 32 40 21.68 W 104 5 11.01 |          |           |
|          | 11664.00 | 89.61 | 91.42 | 8838.86 | 3408.64 | 919.16 | 3346.24 | 0.20  | 608456.19 | 616472.76 | N 32 40 21.68 W 104 5 11.01 |          |           |
|          | 11756.00 | 89.44 | 91.26 | 8839.62 | 3500.14 | 916.83 | 3438.21 | 0.28  | 608456.19 | 616472.76 | N 32 40 21.68 W 104 5 11.01 |          |           |
|          | 11848.00 | 89.55 | 91.29 | 8840.43 | 3591.63 | 914.80 | 3521.16 | 0.16  | 608456.19 | 616472.76 | N 32 40 21.68 W 104 5 11.01 |          |           |
|          | 11930.00 | 89.50 | 91.27 | 8841.19 | 3682.18 | 912.77 | 3612.16 | 0.06  | 608456.19 | 616472.76 | N 32 40 21.68 W 104 5 11.01 |          |           |
|          | 12020.00 | 89.55 | 90.33 | 8841.94 | 3772.78 | 911.50 | 3703.14 | 1.02  | 608456.19 | 616472.76 | N 32 40 21.68 W 104 5 11.01 |          |           |
|          | 12123.00 | 89.55 | 89.36 | 8842.67 | 3865.50 | 912.75 | 3803.13 | 0.06  | 608456.19 | 616472.76 | N 32 40 21.68 W 104 5 11.01 |          |           |
|          | 12215.00 | 89.50 | 89.26 | 8843.43 | 3957.28 | 912.75 | 3893.13 | 0.06  | 608456.19 | 616472.76 | N 32 40 21.68 W 104 5 11.01 |          |           |
|          | 12399.00 | 89.50 | 89.26 | 8844.96 | 4049.54 | 914.98 | 3983.13 | 0.06  | 608456.19 | 616472.76 | N 32 40 21.68 W 104 5 11.01 |          |           |
|          | 12493.00 | 89.55 | 90.33 | 8846.53 | 4143.64 | 916.55 | 4073.10 | 1.15  | 608456.19 | 616472.76 | N 32 40 21.68 W 104 5 11.01 |          |           |
|          | 12682.00 | 89.55 | 91.40 | 8847.26 | 4239.37 | 916.55 | 4163.08 | 0.23  | 608456.19 | 616472.76 | N 32 40 21.68 W 104 5 11.01 |          |           |
|          | 12777.00 | 89.61 | 91.19 | 8847.96 | 4329.94 | 912.88 | 4253.05 | 0.26  | 608456.19 | 616472.76 | N 32 40 21.68 W 104 5 11.01 |          |           |
|          | 12872.00 | 89.44 | 91.37 | 8848.75 | 4417.95 | 910.86 | 4343.05 | 0.13  | 608456.19 | 616472.76 | N 32 40 21.68 W 104 5 11.01 |          |           |
|          | 12966.00 | 89.44 | 91.25 | 8849.67 | 4504.46 | 908.71 | 4433.05 | 0.24  | 608456.19 | 616472.76 | N 32 40 21.68 W 104 5 11.01 |          |           |
|          | 13156.00 | 89.89 | 91.28 | 8850.78 | 4592.88 | 902.39 | 4523.05 | 0.12  | 608456.19 | 616472.76 | N 32 40 21.68 W 104 5 11.01 |          |           |
|          | 13250.00 | 90.00 | 91.32 | 8850.87 | 4684.47 | 902.39 | 4613.05 | 0.08  | 608456.19 | 616472.76 | N 32 40 21.68 W 104 5 11.01 |          |           |
|          | 13345.00 | 90.06 | 91.34 | 8850.77 | 4770.52 | 898.11 | 4703.05 | 0.13  | 608456.19 | 616472.76 | N 32 40 21.68 W 104 5 11.01 |          |           |
|          | 13534.00 | 90.00 | 91.20 | 8850.87 | 4858.98 | 896.48 | 4793.05 | 0.13  | 608456.19 | 616472.76 | N 32 40 21.68 W 104 5 11.01 |          |           |
|          | 13629.00 | 89.94 | 91.18 | 8850.77 | 4946.99 | 896.48 | 4883.05 | 0.19  | 608456.19 | 616472.76 | N 32 40 21.68 W 104 5 11.01 |          |           |
|          | 13723.00 | 89.84 | 89.50 | 8850.83 | 5035.45 | 894.33 | 4973.05 | 0.31  | 608456.19 | 616472.76 | N 32 40 21.68 W 104 5 11.01 |          |           |
|          | 13818.00 | 90.11 | 89.45 | 8850.45 | 5124.95 | 896.48 | 5063.05 | 0.17  | 608456.19 | 616472.76 | N 32 40 21.68 W 104 5 11.01 |          |           |
|          | 13913.00 | 90.34 | 89.26 | 8850.17 | 5214.95 | 898.11 | 5153.05 | 0.21  | 608456.19 | 616472.76 | N 32 40 21.68 W 104 5 11.01 |          |           |
|          | 14007.00 | 90.00 | 89.42 | 8850.17 | 5304.95 | 898.11 | 5243.05 | 0.40  | 608456.19 | 616472.76 | N 32 40 21.68 W 104 5 11.01 |          |           |
|          | 14102.00 | 90.11 | 89.33 | 8850.94 |         |        |         |       |           |           |                             |          |           |

| 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 ° ' ") |
|--------------|------------|-------------|------------------|-------------|--------------|------------|------------|------------------|--------------------|-------------------|-------------------------|--------------------------|
|              | 18472.00   | 89.55       | 91.63            | 8895.30     | 10189.50     | 869.77     | 10152.50   | 0.56             | 608540.31          | 626280.80         | N 32 40 21.43 W 104     | 3 26.20                  |
|              | 18553.00   | 89.44       | 91.71            | 8896.01     | 10270.02     | 867.41     | 10233.46   | 0.17             | 608537.95          | 626361.75         | N 32 40 21.40 W 104     | 3 25.25                  |
|              | 18647.00   | 89.55       | 91.14            | 8896.84     | 10363.51     | 865.07     | 10327.43   | 0.62             | 608535.62          | 626455.71         | N 32 40 21.38 W 104     | 3 24.16                  |
|              | 18837.00   | 89.52       | 91.41            | 8898.38     | 10552.52     | 860.84     | 10517.37   | 0.14             | 608531.39          | 626645.64         | N 32 40 21.33 W 104     | 3 21.93                  |
|              | 18931.00   | 89.55       | 91.24            | 8899.15     | 10648.02     | 858.67     | 10611.34   | 0.18             | 608529.22          | 626739.61         | N 32 40 21.31 W 104     | 3 20.83                  |
|              | 19028.00   | 89.50       | 91.41            | 8899.93     | 10740.52     | 856.47     | 10706.32   | 0.19             | 608527.02          | 626834.57         | N 32 40 21.28 W 104     | 3 19.72                  |
|              | 19120.00   | 89.78       | 90.43            | 8900.52     | 10834.09     | 854.96     | 10800.30   | 1.08             | 608525.51          | 626928.55         | N 32 40 21.26 W 104     | 3 18.62                  |
| Final MWD    | 19214.00   | 89.61       | 89.06            | 8901.02     | 10927.82     | 855.38     | 10894.30   | 1.47             | 608525.93          | 627022.53         | N 32 40 21.27 W 104     | 3 17.52                  |
| Survey       | 19258.00   | 89.61       | 89.06            | 8901.32     | 10971.73     | 856.11     | 10938.29   | 0.00             | 608526.65          | 627066.52         | N 32 40 21.27 W 104     | 3 17.01                  |
| Proj. to Bit |            |             |                  |             |              |            |            |                  |                    |                   |                         |                          |

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 Turkey<br>Track 9-10 State 33H Gyro+MWD<br>0-19,258' |
|             | 1    | 26.500          | 26.500        | Act Stns         | 30.000    | 30.000                  | NAL_NSG+MSHOT-Depth Only | Original Borehole / Oxy Turkey<br>Track 9-10 State 33H Gyro+MWD<br>0-19,258' |
|             | 1    | 26.500          | 8373.000      | Act Stns         | 30.000    | 30.000                  | NAL_NSG+MSHOT            | Original Borehole / Oxy Turkey<br>Track 9-10 State 33H Gyro+MWD              |
|             | 1    | 8373.000        | 19258.000     | Act Stns         | 30.000    | 30.000                  | NAL_MWD_IFR1+MS          | Original Borehole / Oxy Turkey<br>Track 9-10 State 33H Gyro+MWD              |

...Oxy Turkey Track 9-10 State 33H\Original Borehole\Oxy Turkey Track 9-10 State 33H Gyro+MWD 0-19,258'