

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)  
Fax : (432) 742-5606 (Shared)

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**Schlumberger**

June 26, 2019

OXY USA WTP LP  
PO BOX 4294  
Houston, TX 77210

Re:

4, 19S, 29E, EDDY NM  
N 32.69418 W -104.08794

CLIENT: OXY USA WTP LP  
WELL: Turkey Track 4-3 State 21H  
FIELD: Turkey Track; Bone Spring

RIG: H&P 556  
COUNTY: Eddy  
API NO: 30-015-44396  
JOB NO: 19MLH0191

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>  |
|-----------------------------------------|------------------------------------------------|------------------------------|----------------------------------|------------------------|
| Sarah Almohsen<br>FE                    | Turkey Track 4-3 State<br>21H<br>Original Hole | 3074.00 Ft to<br>18063.00 Ft | June 20, 2019 to<br>June 9, 2019 | TelePacer<br>SlimPulse |

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

Andrew Salomon  
Field Service Manager

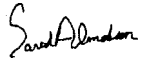
Oilfield Services, Central U.S. Land  
Schlumberger Drilling and Measurements  
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7220 W I-H 20  
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Well Reference:

4, 19S, 29E, EDDY NM  
N 32.69418 W -104.08794

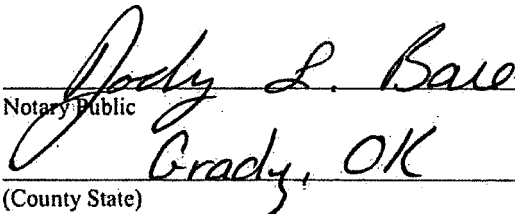
I, Sarah Almohsen certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of June 20, 2019 through June 09, 2019, conduct or supervise the taking of the TelePacer & SlimPulse surveys from a depth of 3074.00 feet to a depth of 18063.00 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 4-3 State 21H Well (Original Hole) API No. 30-015-44396 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.

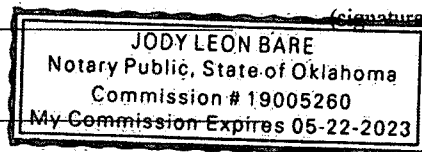
By   
Sarah Almohsen  
FE

Subscribed and Sworn to before me this 26 day of June (month) 2019 (yr)

My Commission expires:

05-22-2023

  
Notary Public  
Grady, OK  
(County State)

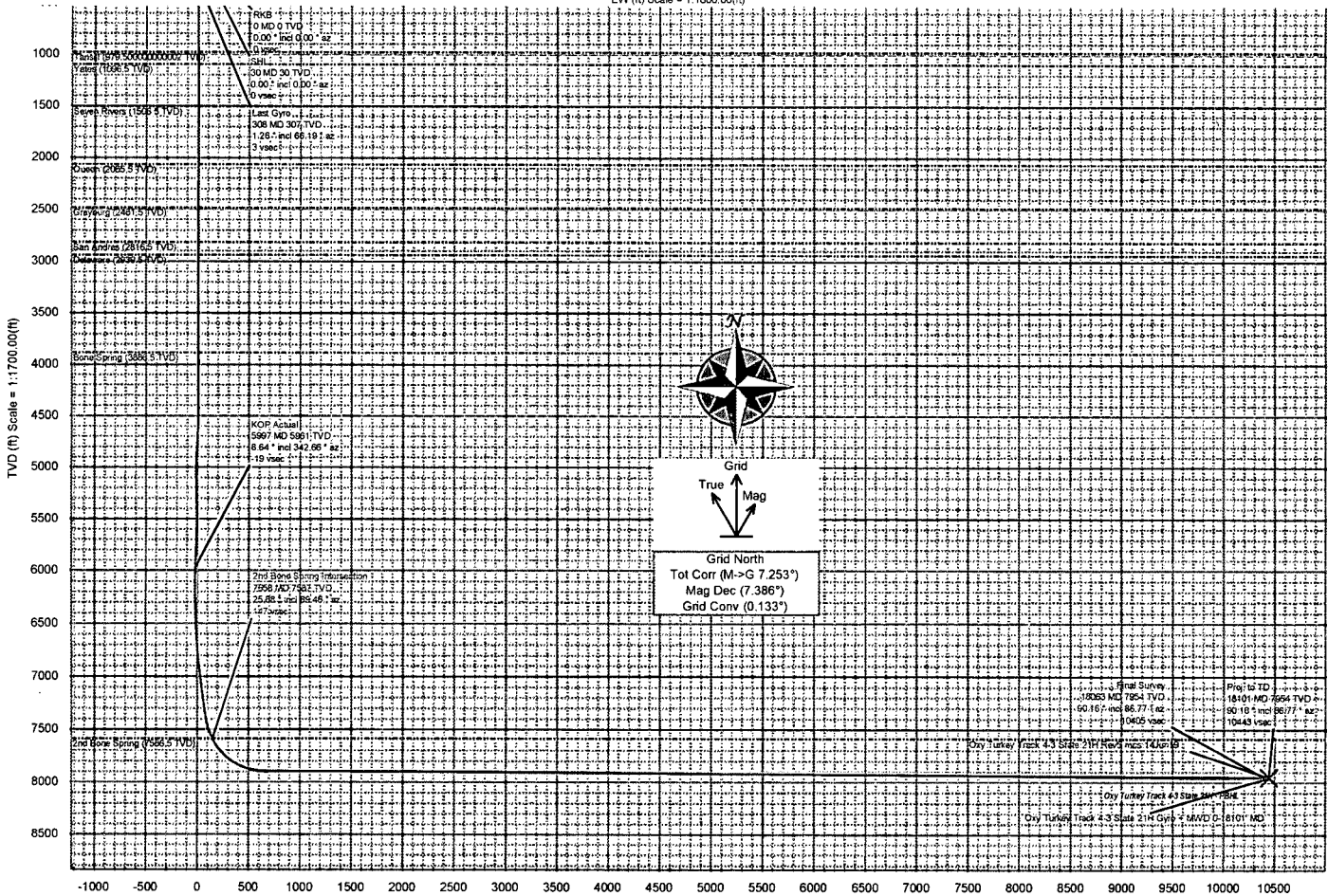
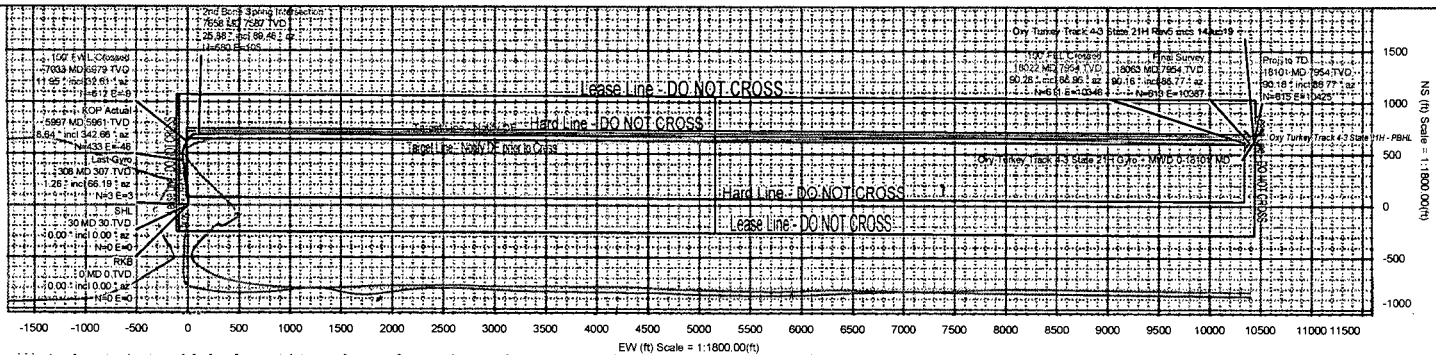


Schlumberger

OXY



| Borehole:                     |          |       | Well:                          |             | Field:                     |             |               | Structure:                     |                                                       |
|-------------------------------|----------|-------|--------------------------------|-------------|----------------------------|-------------|---------------|--------------------------------|-------------------------------------------------------|
| Original Borehole             |          |       | Oxy Turkey Track 4-3 State 21H |             | NM Eddy County (NAD 83)    |             |               | Oxy Turkey Track 4-3 State 21H |                                                       |
| Gravity & Magnetic Parameters |          |       |                                |             | Surface Location           |             |               | Miscellaneous                  |                                                       |
| Model:                        | IFR1     | Dip:  | 60.521°                        | Date:       | 10-Jun-2019                | Lat:        | N 32 41 39.06 | Northing:                      | 616382.37RUS                                          |
| MagDec:                       | 7.386°   | FS:   | 48010.8nT                      | Gravity FS: | 998.516mgn (9.80665 Based) | Lon:        | W 104 5 16.60 | Easting:                       | 616826.8RUS                                           |
|                               |          |       |                                |             |                            | Grid Conv:  | 0.1325°       | Slot:                          | Oxy Turkey Track 4-3 State 21H                        |
|                               |          |       |                                |             |                            | Scale Fact: | 0.99991562    | TVD Ref:                       | RKB=30'(3444.8ft above MSL)                           |
|                               |          |       |                                |             |                            |             |               | Plan:                          | Oxy Turkey Track 4-3 State 21H Gyro + MWD 0-18101' MD |
| 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                           | 30.00    | 0.00  | 0.00                           | 30.00       | 0.00                       | 0.00        | 0.00          | 0.00                           |                                                       |
| Last Gyro                     | 307.50   | 1.26  | 66.19                          | 307.46      | 3.20                       | 2.74        | 3.04          | 0.24                           |                                                       |
| KOP Actual                    | 5997.00  | 8.64  | 342.66                         | 5961.04     | -19.42                     | 432.65      | -46.42        | 0.97                           |                                                       |
| 100' FWL Crossed              | 7033.00  | 11.95 | 32.61                          | 6979.49     | 29.01                      | 612.17      | -9.09         | 1.14                           |                                                       |
| 2nd Bone Spring Intersection  | 7658.43  | 25.88 | 89.46                          | 7586.50     | 147.06                     | 679.59      | 104.98        | 9.97                           |                                                       |
| 100' FEL Crossed              | 18022.41 | 90.28 | 86.96                          | 7954.21     | 10363.99                   | 610.75      | 10346.03      | 0.89                           |                                                       |
| Final Survey                  | 18063.00 | 90.16 | 86.77                          | 7954.05     | 10404.58                   | 612.98      | 10386.56      | 0.49                           |                                                       |
| Proj. to TD                   | 18101.00 | 90.16 | 86.77                          | 7953.94     | 10442.58                   | 615.12      | 10424.50      | 0.00                           |                                                       |



Vertical Section (ft) Azim = 86.43° Scale = 1:1700.00(ft) Origin = 0N/-S, 0E/-W

# Oxy Turkey Track 4-3 State 21H Gyro + MWD 0-18101' MD Survey Geodetic Report

(Def Survey)



Report Date: June 20, 2019 - 10:23 AM  
 Client: OXY  
 Field: NM Eddy County (NAD 83)  
 Structure / Slot: Oxy Turkey Track 4-3 State 21H / Oxy Turkey Track 4-3 State 21H  
 Well: Oxy Turkey Track 4-3 State 21H  
 Borehole: Original Borehole  
 UWI / API#: H&P556 / 30-015-44396  
 Survey Name: Oxy Turkey Track 4-3 State 21H Gyro + MWD 0-18101' MD  
 Survey Date: May 24, 2019  
 Tort / AHD / DDI / ERD Ratio: 188.792' / 11101.360 ft / 6.678' / 1.395  
 Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet  
 Location Lat / Long: N 32° 41' 39.05903", W 104° 5' 16.59692"  
 Location Grid N/E Y/X: N 616362.370 RUS, E 616826.800 RUS  
 CRS Grid Convergence Angle: 0.1325°  
 Grid Scale Factor: 0.99991562  
 Version / Patch: 2.10.760.0

Survey / DLS Computation: Minimum Curvature / Lubinski  
 Vertical Section Azimuth: 86.433° (Grid North)  
 Vertical Section Origin: 0.000 ft, 0.000 ft  
 TVD Reference Datum: RKB=30'  
 TVD Reference Elevation: 3444.800 ft above MSL  
 Seabed / Ground Elevation: 3414.800 ft above MSL  
 Magnetic Declination: 7.386°  
 Total Gravity Field Strength: 998.5152mgn (9.80665 Based)  
 Gravity Model: GARM  
 Total Magnetic Field Strength: 48010.800 nT  
 Magnetic Dip Angle: 60.521°  
 Declination Date: June 10, 2019  
 Magnetic Declination Model: IFR1  
 North Reference: Grid North  
 Grid Convergence Used: 0.1325°  
 Total Corr Mag North->Grid North: 7.2535°  
 Local Coord Referenced To: Well Head

| Comments            | MD<br>(ft) | Incl<br>(°) | Azim Grid<br>(°) | TVD<br>(ft) | VSEC<br>(ft) | NS<br>(ft) | EW<br>(ft) | DLS<br>(ft/100ft) | Northing<br>(RUS) | Easting<br>(RUS) | Latitude<br>(N/S ° ' ") | Longitude<br>(E/W ° ' ") |
|---------------------|------------|-------------|------------------|-------------|--------------|------------|------------|-------------------|-------------------|------------------|-------------------------|--------------------------|
| RKB                 | 0.00       | 0.00        | 0.00             | 0.00        | 0.00         | 0.00       | 0.00       | 0.00              | 616362.37         | 616826.80        | N 32 41 39.06           | W 104 5 16.60            |
| SHL                 | 30.00      | 0.00        | 0.00             | 30.00       | 0.00         | 0.00       | 0.00       | 0.00              | 616362.37         | 616826.80        | N 32 41 39.06           | W 104 5 16.60            |
|                     | 101.60     | 0.53        | 7.65             | 101.60      | 0.06         | 0.33       | 0.04       | 0.74              | 616362.70         | 616826.84        | N 32 41 39.06           | W 104 5 16.60            |
|                     | 131.00     | 0.84        | 26.73            | 131.00      | 0.20         | 0.66       | 0.16       | 1.30              | 616363.03         | 616826.96        | N 32 41 39.07           | W 104 5 16.60            |
|                     | 187.60     | 1.13        | 48.29            | 187.59      | 0.85         | 1.40       | 0.76       | 0.82              | 616363.77         | 616827.56        | N 32 41 39.07           | W 104 5 16.59            |
|                     | 244.40     | 1.34        | 60.66            | 244.38      | 1.89         | 2.10       | 1.76       | 0.60              | 616364.47         | 616828.56        | N 32 41 39.08           | W 104 5 16.58            |
| Last Gyro           | 307.50     | 1.26        | 66.19            | 307.46      | 3.20         | 2.74       | 3.04       | 0.24              | 616365.11         | 616829.84        | N 32 41 39.09           | W 104 5 16.56            |
|                     | 373.00     | 0.58        | 64.85            | 372.95      | 4.19         | 3.17       | 4.00       | 1.04              | 616365.54         | 616830.80        | N 32 41 39.09           | W 104 5 16.55            |
|                     | 553.00     | 0.06        | 275.01           | 552.95      | 4.94         | 3.56       | 4.73       | 0.35              | 616365.93         | 616831.53        | N 32 41 39.09           | W 104 5 16.54            |
|                     | 583.00     | 0.11        | 40.21            | 582.95      | 4.94         | 3.59       | 4.73       | 0.51              | 616365.96         | 616831.53        | N 32 41 39.09           | W 104 5 16.54            |
|                     | 673.00     | 0.14        | 208.48           | 672.95      | 4.95         | 3.56       | 4.73       | 0.28              | 616365.93         | 616831.53        | N 32 41 39.09           | W 104 5 16.54            |
|                     | 765.00     | 0.06        | 251.35           | 764.95      | 4.84         | 3.44       | 4.63       | 0.11              | 616365.81         | 616831.43        | N 32 41 39.09           | W 104 5 16.54            |
|                     | 855.00     | 0.11        | 107.31           | 854.95      | 4.87         | 3.40       | 4.67       | 0.18              | 616365.77         | 616831.47        | N 32 41 39.09           | W 104 5 16.54            |
|                     | 1036.00    | 0.11        | 81.28            | 1035.95     | 5.21         | 3.38       | 5.01       | 0.03              | 616365.75         | 616831.81        | N 32 41 39.09           | W 104 5 16.54            |
|                     | 1126.00    | 0.06        | 311.93           | 1125.95     | 5.26         | 3.42       | 5.06       | 0.17              | 616365.79         | 616831.86        | N 32 41 39.09           | W 104 5 16.54            |
|                     | 1219.00    | 0.11        | 114.19           | 1218.95     | 5.31         | 3.42       | 5.11       | 0.18              | 616365.79         | 616831.90        | N 32 41 39.09           | W 104 5 16.54            |
|                     | 1310.00    | 0.11        | 133.51           | 1309.95     | 5.44         | 3.32       | 5.25       | 0.04              | 616365.69         | 616832.05        | N 32 41 39.09           | W 104 5 16.54            |
|                     | 1401.00    | 0.11        | 139.33           | 1400.95     | 5.56         | 3.19       | 5.37       | 0.01              | 616365.56         | 616832.17        | N 32 41 39.09           | W 104 5 16.53            |
|                     | 1496.00    | 0.11        | 103.15           | 1495.95     | 5.70         | 3.10       | 5.52       | 0.07              | 616365.47         | 616832.32        | N 32 41 39.09           | W 104 5 16.53            |
|                     | 1590.00    | 0.11        | 87.45            | 1589.95     | 5.88         | 3.09       | 5.69       | 0.03              | 616365.46         | 616832.49        | N 32 41 39.09           | W 104 5 16.53            |
|                     | 1685.00    | 0.11        | 331.08           | 1684.95     | 5.93         | 3.17       | 5.74       | 0.20              | 616365.54         | 616832.54        | N 32 41 39.09           | W 104 5 16.53            |
|                     | 1875.00    | 0.11        | 17.58            | 1874.95     | 5.92         | 3.51       | 5.71       | 0.05              | 616365.88         | 616832.51        | N 32 41 39.09           | W 104 5 16.53            |
|                     | 2064.00    | 0.11        | 161.65           | 2063.95     | 6.03         | 3.51       | 5.82       | 0.11              | 616365.88         | 616832.62        | N 32 41 39.09           | W 104 5 16.53            |
|                     | 2158.00    | 0.11        | 127.04           | 2157.95     | 6.12         | 3.37       | 5.92       | 0.07              | 616365.74         | 616832.72        | N 32 41 39.09           | W 104 5 16.53            |
|                     | 2253.00    | 0.11        | 88.92            | 2252.95     | 6.28         | 3.31       | 6.08       | 0.08              | 616365.68         | 616832.88        | N 32 41 39.09           | W 104 5 16.53            |
|                     | 2347.00    | 0.11        | 25.30            | 2346.95     | 6.41         | 3.40       | 6.21       | 0.12              | 616365.77         | 616833.01        | N 32 41 39.09           | W 104 5 16.52            |
|                     | 2442.00    | 0.14        | 44.77            | 2441.95     | 6.54         | 3.56       | 6.33       | 0.05              | 616365.93         | 616833.13        | N 32 41 39.09           | W 104 5 16.52            |
|                     | 2537.00    | 0.06        | 358.78           | 2536.94     | 6.63         | 3.69       | 6.42       | 0.11              | 616366.06         | 616833.21        | N 32 41 39.10           | W 104 5 16.52            |
|                     | 2631.00    | 0.23        | 194.70           | 2630.94     | 6.58         | 3.56       | 6.37       | 0.31              | 616365.93         | 616833.17        | N 32 41 39.09           | W 104 5 16.52            |
|                     | 2726.00    | 0.11        | 356.61           | 2725.94     | 6.52         | 3.47       | 6.31       | 0.35              | 616365.84         | 616833.11        | N 32 41 39.09           | W 104 5 16.52            |
|                     | 2821.00    | 0.11        | 168.29           | 2820.94     | 6.53         | 3.47       | 6.33       | 0.23              | 616365.84         | 616833.12        | N 32 41 39.09           | W 104 5 16.52            |
|                     | 2896.00    | 0.06        | 332.43           | 2895.94     | 6.52         | 3.43       | 6.32       | 0.22              | 616365.80         | 616833.12        | N 32 41 39.09           | W 104 5 16.52            |
|                     | 3074.00    | 0.45        | 343.89           | 3073.94     | 6.33         | 4.19       | 6.08       | 0.22              | 616366.56         | 616832.88        | N 32 41 39.10           | W 104 5 16.53            |
|                     | 3138.00    | 0.93        | 11.60            | 3137.94     | 6.41         | 4.94       | 6.12       | 0.89              | 616367.31         | 616832.92        | N 32 41 39.11           | W 104 5 16.53            |
|                     | 3233.00    | 2.12        | 4.95             | 3232.90     | 6.88         | 7.44       | 6.43       | 1.26              | 616369.81         | 616833.23        | N 32 41 39.13           | W 104 5 16.52            |
|                     | 3330.00    | 3.18        | 6.53             | 3329.80     | 7.61         | 11.90      | 6.89       | 1.10              | 616374.27         | 616833.69        | N 32 41 39.18           | W 104 5 16.52            |
|                     | 3423.00    | 4.45        | 6.52             | 3422.59     | 8.70         | 18.05      | 7.59       | 1.37              | 616380.42         | 616834.39        | N 32 41 39.24           | W 104 5 16.51            |
|                     | 3614.00    | 6.73        | 358.00           | 3612.67     | 10.30        | 36.60      | 8.04       | 1.27              | 616398.97         | 616834.84        | N 32 41 39.42           | W 104 5 16.50            |
|                     | 3707.00    | 7.73        | 356.37           | 3704.93     | 10.44        | 48.29      | 7.45       | 1.10              | 616410.65         | 616834.25        | N 32 41 39.54           | W 104 5 16.51            |
|                     | 3897.00    | 9.03        | 352.30           | 3892.90     | 9.36         | 75.82      | 4.65       | 0.75              | 616438.18         | 616831.45        | N 32 41 39.81           | W 104 5 16.54            |
|                     | 3993.00    | 9.55        | 351.41           | 3987.64     | 8.11         | 91.16      | 2.45       | 0.56              | 616453.52         | 616829.25        | N 32 41 39.96           | W 104 5 16.57            |
|                     | 4184.00    | 10.19       | 350.58           | 4175.81     | 5.00         | 123.49     | -2.68      | 0.34              | 616485.85         | 616824.12        | N 32 41 40.28           | W 104 5 16.62            |
|                     | 4280.00    | 10.14       | 4.23             | 4270.32     | 5.28         | 140.30     | -3.45      | 2.50              | 616502.66         | 616823.35        | N 32 41 40.45           | W 104 5 16.63            |
|                     | 4376.00    | 10.11       | 3.19             | 4364.82     | 7.42         | 157.14     | -2.36      | 0.19              | 616519.50         | 616824.44        | N 32 41 40.61           | W 104 5 16.62            |
|                     | 4472.00    | 10.21       | 352.01           | 4459.33     | 7.76         | 173.98     | -3.07      | 2.05              | 616536.34         | 616823.73        | N 32 41 40.78           | W 104 5 16.63            |
|                     | 4567.00    | 10.12       | 347.38           | 4552.84     | 5.79         | 190.46     | -6.07      | 0.87              | 616552.82         | 616820.74        | N 32 41 40.94           | W 104 5 16.66            |
|                     | 4662.00    | 10.10       | 338.30           | 4646.37     | 1.89         | 206.35     | -10.97     | 1.68              | 616568.70         | 616815.83        | N 32 41 41.10           | W 104 5 16.72            |
|                     | 4758.00    | 10.25       | 339.55           | 4740.86     | -3.21        | 222.17     | -17.07     | 0.28              | 616584.52         | 616809.74        | N 32 41 41.26           | W 104 5 16.79            |
|                     | 4854.00    | 10.16       | 339.11           | 4835.34     | -8.21        | 238.09     | -23.07     | 0.12              | 616600.44         | 616803.73        | N 32 41 41.42           | W 104 5 16.86            |
|                     | 4949.00    | 10.26       | 343.24           | 4928.84     | -12.64       | 254.02     | -28.50     | 0.78              | 616616.36         | 616798.31        | N 32 41 41.57           | W 104 5 16.92            |
|                     | 5139.00    | 10.36       | 3.42             | 5115.83     | -14.42       | 287.28     | -32.36     | 1.89              | 616649.63         | 616794.44        | N 32 41 41.90           | W 104 5 16.97            |
|                     | 5235.00    | 10.24       | 3.64             | 5210.29     | -12.30       | 304.42     | -31.30     | 0.13              | 616666.76         | 616795.50        | N 32 41 42.07           | W 104 5 16.95            |
|                     | 5330.00    | 10.28       | 2.39             | 5303.77     | -10.36       | 321.31     | -30.41     | 0.24              | 616683.65         | 616796.39        | N 32 41 42.24           | W 104 5 16.94            |
|                     | 5426.00    | 10.39       | 4.28             | 5398.21     | -8.29        | 338.50     | -29.41     | 0.37              | 616700.84         | 616797.39        | N 32 41 42.41           | W 104 5 16.93            |
|                     | 5522.00    | 10.09       | 353.97           | 5492.69     | -7.47        | 355.50     | -29.65     | 1.93              | 616717.84         | 616797.16        | N 32 41 42.58           | W 104 5 16.93            |
|                     | 5618.00    | 10.03       | 350.65           | 5587.21     | -8.68        | 372.11     | -31.89     | 0.61              | 616734.45         | 616794.92        | N 32 41 42.74           | W 104 5 16.96            |
|                     | 5714.00    | 9.48        | 349.79           | 5681.82     | -10.43       | 388.14     | -34.65     | 0.59              | 616750.48         | 616792.16        | N 32 41 42.90           | W 104 5 16.99            |
|                     | 5802.00    | 9.56        | 342.92           | 5867.24     | -15.87       | 418.30     | -41.98     | 0.61              | 616780.64         | 616784.83        | N 32 41 43.20           | W 104 5 17.08            |
|                     | 5997.00    | 8.64        | 342.66           | 5961.04     | -19.42       | 432.65     | -46.42     | 0.97              | 616794.99         | 616780.38        | N 32 41 43.34           | W 104 5 17.13            |
|                     | 6093.00    | 7.70        | 348.43           | 6056.07     | -22.03       | 445.84     | -49.86     | 1.30              | 616808.17         | 616776.94        | N 32 41 43.47           | W 104 5 17.17            |
|                     | 6189.00    | 8.99        | 358.14           | 6151.06     | -22.70       | 459.64     | -51.39     | 1.99              | 616821.97         | 616775.41        | N 32 41 43.61           | W 104 5 17.19            |
|                     | 6380.00    | 11.58       | 6.83             | 6338.98     | -18.80       | 493.59     | -49.60     | 1.58              | 616855.92         | 616777.21        | N 32 41 43.94           | W 104 5 17.16            |
|                     | 6475.00    | 10.43       | 8.24             | 6432.23     | -15.32       | 511.57     | -47.23     | 1.24              | 616873.90         | 616779.57        | N 32 41 44.12           | W 104 5 17.14            |
|                     | 6570.00    | 9.57        | 13.47            | 6525.79     | -11.24       | 527.76     | -44.16     | 1.32              | 616890.09         | 616782.64        | N 32 41 44.28           | W 104 5 17.10            |
|                     | 6666.00    | 9.86        | 16.17            | 6620.42     | -6.13        | 543.42     | -40.01     | 0.56              | 616905.74         | 616786.79        | N 32 41 44.44           | W 104 5 17.05            |
|                     | 6762.00    | 11.51       | 18.60            | 6714.75     | 0.26         | 560.39     | -34.67     | 1.78              | 616922.71         | 616792.14        | N 32 41 44.60           | W 104 5 16.99            |
|                     | 6856.00    | 12.69       | 24.25            | 6806.66     | 8.62         | 578.70     | -27.43     | 1.78              | 616941.02         | 616799.37        | N 32 41 44.79           | W 104 5 16.90            |
|                     | 6952.00    | 12.59       | 29.47            | 6900.34     | 19.24        | 597.42     | -17.96     | 1.19              | 616959.74         | 616808.85        | N 32 41 44.97           | W 104 5 16.79            |
| 100' FWL<br>Crossed | 7033.00    | 11.95       | 32.61            | 6979.49     | 29.01        | 612.17     | -9.09      | 1.14              | 616974.48         | 616817.71        | N 32 41 45.12           | W 104 5 16.69            |
|                     | 7047.00    |             |                  |             |              |            |            |                   |                   |                  |                         |                          |
|                     | 7143.00    | 11.89       | 33.19            | 6993.19     | 30.72        | 614.59     | -7.53      | 1.14              | 616976.91         | 616819.27        | N 32 41 45.14           | W 104 5 16.67            |
|                     | 7143.00    | 11.89       | 34.93            | 7087.14     | 42.77        | 630.94     | 3.53       | 0.38              | 616993.26         | 616830.33        | N 32 41 45.30           | W 104 5 16.54            |
|                     | 7238.00    | 11.09       | 36.83            | 7180.23     | 54.78        | 646.28     | 14.61      | 0.93              | 617008.59         | 616841.41        | N 32 41 45.45           | W 104 5 16.41            |
|                     | 7334.00    | 10.29       | 44.02            | 7274.57     | 67.10        | 659.83     | 26.10      | 1.62              | 617022.15         | 616852.90        | N 32 41 45.59           | W 104 5 16.27            |
|                     | 7398.00    | 9.86        | 47.54            | 7337.58     | 75.58        | 667.64     | 34.1       |                   |                   |                  |                         |                          |

| Comments                           | MD<br>(ft) | Incl<br>(°) | Azim Grid<br>(°) | TVD<br>(ft) | VSEC<br>(ft) | NS<br>(ft) | EW<br>(ft) | DLS<br>(°/100ft) | Northing<br>(ftUS) | Easting<br>(ftUS) | Latitude<br>(N/S ° ' '') | Longitude<br>(E/W ° ' '') |
|------------------------------------|------------|-------------|------------------|-------------|--------------|------------|------------|------------------|--------------------|-------------------|--------------------------|---------------------------|
| 2nd Bone<br>Spring<br>Intersection | 7658.43    | 25.88       | 89.46            | 7586.50     | 147.06       | 679.59     | 104.98     | 9.97             | 617041.90          | 616931.77         | N 32 41 45.78 W 104      | 5 15.35                   |
|                                    | 7696.00    | 29.57       | 88.13            | 7619.75     | 164.51       | 679.97     | 122.45     | 9.97             | 617042.28          | 616949.24         | N 32 41 45.78 W 104      | 5 15.15                   |
|                                    | 7791.00    | 40.42       | 88.64            | 7697.46     | 218.88       | 681.47     | 176.83     | 11.43            | 617043.78          | 617003.61         | N 32 41 45.80 W 104      | 5 14.51                   |
|                                    | 7886.00    | 50.66       | 88.83            | 7763.91     | 286.54       | 682.95     | 244.53     | 10.78            | 617045.27          | 617071.31         | N 32 41 45.81 W 104      | 5 13.72                   |
|                                    | 7980.00    | 60.54       | 87.89            | 7816.95     | 363.96       | 685.21     | 321.96     | 10.54            | 617047.52          | 617148.73         | N 32 41 45.83 W 104      | 5 12.81                   |
|                                    | 8075.00    | 67.67       | 88.59            | 7858.41     | 449.32       | 687.82     | 407.33     | 7.53             | 617050.13          | 617234.09         | N 32 41 45.86 W 104      | 5 11.81                   |
|                                    | 8169.00    | 76.80       | 92.63            | 7887.23     | 538.44       | 686.79     | 496.67     | 10.34            | 617049.10          | 617323.43         | N 32 41 45.84 W 104      | 5 10.77                   |
|                                    | 8264.00    | 87.35       | 91.47            | 7900.47     | 631.92       | 683.44     | 590.54     | 11.38            | 617045.75          | 617417.29         | N 32 41 45.81 W 104      | 5 9.67                    |
|                                    | 8338.00    | 91.41       | 88.81            | 7901.27     | 705.74       | 683.26     | 664.52     | 6.56             | 617045.57          | 617491.26         | N 32 41 45.80 W 104      | 5 8.80                    |
|                                    | 8423.00    | 92.19       | 86.01            | 7898.60     | 790.67       | 687.10     | 749.38     | 3.42             | 617049.41          | 617576.12         | N 32 41 45.84 W 104      | 5 7.81                    |
|                                    | 8518.00    | 90.57       | 86.32            | 7896.32     | 885.64       | 693.45     | 844.14     | 1.74             | 617055.76          | 617670.86         | N 32 41 45.90 W 104      | 5 6.70                    |
|                                    | 8613.00    | 89.85       | 86.40            | 7895.97     | 980.64       | 699.48     | 938.94     | 0.76             | 617061.79          | 617765.66         | N 32 41 45.96 W 104      | 5 5.59                    |
|                                    | 8709.00    | 89.95       | 87.92            | 7896.13     | 1076.63      | 704.24     | 1034.82    | 1.59             | 617066.55          | 617861.53         | N 32 41 46.00 W 104      | 5 4.47                    |
|                                    | 8901.00    | 89.88       | 92.28            | 7896.42     | 1268.19      | 703.90     | 1226.78    | 2.27             | 617066.21          | 618053.47         | N 32 41 46.00 W 104      | 5 2.22                    |
|                                    | 8996.00    | 89.95       | 92.38            | 7896.56     | 1362.69      | 700.04     | 1321.70    | 0.13             | 617062.35          | 618148.38         | N 32 41 45.95 W 104      | 5 1.11                    |
|                                    | 9092.00    | 90.19       | 92.21            | 7896.44     | 1458.18      | 696.19     | 1417.62    | 0.31             | 617058.50          | 618244.30         | N 32 41 45.91 W 104      | 4 59.99                   |
|                                    | 9185.00    | 89.95       | 91.80            | 7896.33     | 1550.74      | 692.94     | 1510.56    | 0.51             | 617055.25          | 618337.23         | N 32 41 45.88 W 104      | 4 58.90                   |
|                                    | 9279.00    | 89.92       | 91.87            | 7896.44     | 1644.33      | 689.93     | 1604.51    | 0.08             | 617052.24          | 618431.18         | N 32 41 45.85 W 104      | 4 57.80                   |
|                                    | 9370.00    | 90.26       | 91.83            | 7896.29     | 1734.92      | 686.99     | 1695.47    | 0.38             | 617049.30          | 618522.12         | N 32 41 45.82 W 104      | 4 56.74                   |
|                                    | 9461.00    | 89.99       | 91.98            | 7896.09     | 1825.50      | 683.97     | 1786.42    | 0.34             | 617046.28          | 618613.06         | N 32 41 45.79 W 104      | 4 55.67                   |
|                                    | 9552.00    | 90.12       | 91.70            | 7896.01     | 1916.10      | 681.05     | 1877.37    | 0.34             | 617043.36          | 618704.01         | N 32 41 45.75 W 104      | 4 54.61                   |
|                                    | 9642.00    | 90.50       | 91.61            | 7895.52     | 2005.72      | 678.45     | 1967.33    | 0.93             | 617040.76          | 618793.96         | N 32 41 45.73 W 104      | 4 53.56                   |
|                                    | 9733.00    | 89.68       | 90.03            | 7895.38     | 2096.45      | 677.14     | 2058.32    | 1.46             | 617039.46          | 618884.94         | N 32 41 45.71 W 104      | 4 52.49                   |
|                                    | 9823.00    | 89.33       | 89.89            | 7896.16     | 2186.28      | 677.21     | 2148.31    | 0.42             | 617039.52          | 618974.93         | N 32 41 45.71 W 104      | 4 51.44                   |
|                                    | 9916.00    | 89.19       | 89.12            | 7897.36     | 2279.14      | 678.01     | 2241.30    | 0.84             | 617040.32          | 619067.91         | N 32 41 45.72 W 104      | 4 50.35                   |
|                                    | 10007.00   | 89.71       | 89.88            | 7898.23     | 2370.00      | 678.80     | 2332.29    | 1.01             | 617041.12          | 619158.89         | N 32 41 45.72 W 104      | 4 49.29                   |
|                                    | 10109.00   | 90.09       | 90.24            | 7898.55     | 2551.64      | 678.51     | 2514.29    | 0.29             | 617040.93          | 619340.87         | N 32 41 45.71 W 104      | 4 47.16                   |
|                                    | 10372.00   | 89.50       | 89.64            | 7899.20     | 2734.29      | 678.81     | 2697.29    | 0.46             | 617041.12          | 619523.86         | N 32 41 45.71 W 104      | 4 45.02                   |
|                                    | 10464.00   | 89.50       | 89.55            | 7900.00     | 2826.15      | 679.46     | 2789.28    | 0.10             | 617041.77          | 619615.84         | N 32 41 45.72 W 104      | 4 43.94                   |
|                                    | 10555.00   | 89.54       | 89.58            | 7900.77     | 2917.01      | 680.15     | 2880.28    | 0.05             | 617042.46          | 619706.83         | N 32 41 45.72 W 104      | 4 42.87                   |
|                                    | 10650.00   | 89.74       | 89.27            | 7901.67     | 3011.88      | 681.10     | 2975.27    | 0.37             | 617043.41          | 619801.81         | N 32 41 45.73 W 104      | 4 41.78                   |
|                                    | 10744.00   | 89.54       | 89.55            | 7902.40     | 3105.75      | 682.07     | 3069.26    | 0.49             | 617044.38          | 619895.80         | N 32 41 45.74 W 104      | 4 40.66                   |
|                                    | 10933.00   | 89.64       | 89.39            | 7903.42     | 3294.48      | 683.82     | 3258.25    | 0.10             | 617046.13          | 620084.77         | N 32 41 45.75 W 104      | 4 38.45                   |
|                                    | 11028.00   | 89.74       | 91.42            | 7903.94     | 3389.24      | 683.14     | 3353.24    | 0.14             | 617045.46          | 620217.95         | N 32 41 45.74 W 104      | 4 37.34                   |
|                                    | 11123.00   | 89.71       | 91.46            | 7904.39     | 3483.88      | 680.76     | 3446.21    | 0.05             | 617043.07          | 620274.71         | N 32 41 45.71 W 104      | 4 36.23                   |
|                                    | 11217.00   | 89.47       | 91.31            | 7905.07     | 3577.53      | 678.49     | 3542.18    | 0.30             | 617040.80          | 620368.67         | N 32 41 45.69 W 104      | 4 35.13                   |
|                                    | 11312.00   | 89.61       | 91.53            | 7905.83     | 3672.16      | 676.13     | 3637.15    | 0.27             | 617038.44          | 620463.63         | N 32 41 45.66 W 104      | 4 34.02                   |
|                                    | 11407.00   | 89.33       | 91.49            | 7906.71     | 3766.79      | 673.63     | 3732.11    | 0.30             | 617035.94          | 620558.59         | N 32 41 45.61 W 104      | 4 32.91                   |
|                                    | 11501.00   | 89.71       | 91.50            | 7907.50     | 3860.42      | 671.18     | 3826.07    | 0.40             | 617033.49          | 620652.54         | N 32 41 45.58 W 104      | 4 31.81                   |
|                                    | 11596.00   | 89.44       | 91.31            | 7908.20     | 3955.06      | 668.85     | 3921.04    | 0.35             | 617031.16          | 620747.50         | N 32 41 45.58 W 104      | 4 30.70                   |
|                                    | 11690.00   | 89.44       | 91.13            | 7909.12     | 4048.72      | 666.85     | 4015.02    | 0.19             | 617029.16          | 620841.47         | N 32 41 45.56 W 104      | 4 29.60                   |
|                                    | 11785.00   | 89.57       | 91.39            | 7909.94     | 4143.38      | 664.76     | 4109.99    | 0.31             | 617027.07          | 620936.44         | N 32 41 45.54 W 104      | 4 28.49                   |
|                                    | 11879.00   | 89.40       | 91.59            | 7910.78     | 4237.01      | 662.31     | 4203.96    | 0.28             | 617024.63          | 621030.39         | N 32 41 45.51 W 104      | 4 27.39                   |
|                                    | 11974.00   | 89.40       | 91.34            | 7911.78     | 4331.64      | 659.88     | 4298.92    | 0.26             | 617022.20          | 621125.35         | N 32 41 45.49 W 104      | 4 26.28                   |
|                                    | 12069.00   | 89.40       | 91.37            | 7912.77     | 4426.29      | 657.64     | 4393.89    | 0.03             | 617019.95          | 621220.31         | N 32 41 45.46 W 104      | 4 25.16                   |
|                                    | 12163.00   | 89.50       | 91.13            | 7913.68     | 4519.95      | 655.59     | 4487.86    | 0.28             | 617017.90          | 621314.27         | N 32 41 45.44 W 104      | 4 24.06                   |
|                                    | 12258.00   | 89.44       | 91.31            | 7914.55     | 4614.62      | 653.56     | 4582.83    | 0.20             | 617015.88          | 621409.24         | N 32 41 45.42 W 104      | 4 22.95                   |
|                                    | 12353.00   | 89.54       | 91.30            | 7915.40     | 4709.27      | 651.40     | 4677.81    | 0.11             | 617013.71          | 621504.20         | N 32 41 45.39 W 104      | 4 21.84                   |
|                                    | 12447.00   | 89.50       | 91.53            | 7916.19     | 4802.91      | 649.08     | 4771.77    | 0.25             | 617011.39          | 621598.16         | N 32 41 45.37 W 104      | 4 20.74                   |
|                                    | 12542.00   | 89.61       | 91.55            | 7916.93     | 4897.53      | 646.53     | 4866.74    | 0.12             | 617008.84          | 621693.12         | N 32 41 45.34 W 104      | 4 19.63                   |
|                                    | 12637.00   | 89.44       | 91.53            | 7917.71     | 4992.15      | 643.97     | 4961.70    | 0.18             | 617006.29          | 621788.07         | N 32 41 45.31 W 104      | 4 18.52                   |
|                                    | 12731.00   | 89.44       | 91.64            | 7918.63     | 5085.77      | 641.37     | 5055.66    | 0.12             | 617003.69          | 621882.02         | N 32 41 45.29 W 104      | 4 17.42                   |
|                                    | 12826.00   | 89.64       | 91.48            | 7919.39     | 5180.38      | 638.79     | 5150.62    | 0.27             | 617001.10          | 621976.98         | N 32 41 45.26 W 104      | 4 16.31                   |
|                                    | 12920.00   | 89.68       | 91.45            | 7919.95     | 5274.02      | 636.38     | 5244.59    | 0.05             | 616998.70          | 622070.94         | N 32 41 45.23 W 104      | 4 15.21                   |
|                                    | 13015.00   | 89.57       | 89.63            | 7920.57     | 5368.77      | 635.49     | 5339.58    | 1.92             | 616997.80          | 622165.92         | N 32 41 45.22 W 104      | 4 14.10                   |
|                                    | 13110.00   | 89.44       | 89.26            | 7921.40     | 5463.63      | 636.41     | 5434.57    | 0.41             | 616998.72          | 622260.90         | N 32 41 45.23 W 104      | 4 12.99                   |
|                                    | 13205.00   | 89.54       | 89.58            | 7922.24     | 5558.50      | 637.37     | 5529.56    | 0.35             | 616999.69          | 622355.88         | N 32 41 45.23 W 104      | 4 11.88                   |
|                                    | 13299.00   | 89.44       | 89.05            | 7923.08     | 5652.38      | 638.49     | 5623.55    | 0.57             | 617000.81          | 622449.86         | N 32 41 45.24 W 104      | 4 10.78                   |
|                                    | 13394.00   | 89.50       | 89.49            | 7923.96     | 5747.26      | 639.70     | 5718.54    | 0.47             | 617002.02          | 622544.84         | N 32 41 45.25 W 104      | 4 9.66                    |
|                                    | 13489.00   | 89.47       | 89.48            | 7924.81     | 5842.12      | 640.56     | 5813.53    | 0.03             | 617002.87          | 622639.83         | N 32 41 45.26 W 104      | 4 8.55                    |
|                                    | 13583.00   | 89.50       | 89.75            | 7925.66     | 5935.97      | 641.19     | 5907.52    | 0.29             | 617003.50          | 622733.81         | N 32 41 45.26 W 104      | 4 7.45                    |
|                                    | 13678.00   | 89.50       | 89.53            | 7926.48     | 6030.82      | 641.79     | 6002.52    | 0.23             | 617004.10          | 622828.80         | N 32 41 45.27 W 104      | 4 6.34                    |
|                                    | 13773.00   | 89.47       | 89.08            | 7927.34     | 6125.69      | 642.94     | 6097.51    | 0.47             | 617005.25          | 622923.78         | N 32 41 45.28 W 104      | 4 5.23                    |
|                                    | 13868.00   | 89.64       | 89.45            | 7928.08     | 6220.58      | 644.16     | 6192.50    | 0.43             | 617006.47          | 623018.76         | N 32 41 45.29 W 104      | 4 4.12                    |
|                                    | 13962.00   | 89.61       | 89.40            | 7928.69     | 6314.45      | 645.10     | 6286.49    | 0.06             | 617007.42          | 623112.75         | N 32 41 45.29 W 104      | 4 3.02                    |
|                                    | 14056.00   | 89.61       | 89.53            | 7929.33     | 6408.31      | 645.98     | 6380.48    | 0.14             | 617008.29          | 623206.73         | N 32 41 45.30 W 104      | 4 1.92                    |
|                                    | 14151.00   | 89.54       | 89.58            | 7930.04     | 6503.17      | 646.72     | 6475.48    | 0.09             | 617009.03          | 623301.72         | N 32 41 45.31 W 104      | 4 0.81                    |
|                                    | 14246.00   | 89.64       | 89.73            | 7930.72     | 6598.02      | 647.29     | 6570.47    | 0.19             | 617009.60          | 623396.71         | N 32 41 45.31 W 104      | 5 9.70                    |
|                                    | 14340.00   | 89.54       | 89.19            | 7931.39     | 6691.88      | 648.17     | 6664.47    | 0.58             | 617010.49          | 623490.69         | N 32 41 45.31 W 104      | 5 8.60                    |
|                                    | 14529.00   | 89.61       | 89.92            | 7932.79     | 6880.59      | 649.64     | 6853.46    | 0.39             | 617011.96          | 623584.66         | N 32 41 45.32 W 104      | 5 6.38                    |
|                                    | 14624.00   | 89.57       | 89.64            | 7933.47     | 6975.43      | 650.01     | 6948.45    | 0.30             | 617012.32          | 623678.65         | N 32 41 45.32 W 104      | 5 5.27                    |
|                                    | 14813.00   | 89.61       | 89.78            | 7934.82     | 7164.12      | 650.96     | 7137.44    | 0.08             | 617013.28          | 623772.63         | N 32 41 45.33 W 104      | 5 3.06                    |
|                                    | 14907.00   | 89.68       | 89.29            | 7935.40     | 7257.98      | 651.73     | 7231.44    | 0.53             | 617014.04          | 624057.61         | N 32 41 45.33 W 104      | 5 1.96                    |
|                                    | 15097.00   | 89.54       | 89.47            | 7936.70     | 7447.72      | 653.78     | 7421.42    | 0.12             | 617016.10          | 624247.58         | N 32 41 45.35 W 104      | 5 3.974                   |
|                                    | 15191.00   | 89.50       | 89.11            | 7937.49     | 7541.60      | 654.95     | 7515.41    | 0.39             | 617017.26          | 624341.56         | N 32 41 45.36 W 104      | 5 3.4864                  |
|                                    | 15286.00   | 89.61       | 89.57            | 7938.22     | 7636.47      | 656.04     | 7610.40    | 0.50             | 617018.35          | 624436.55         | N 32 41 45.37 W 104      | 5 3.4753                  |
|                                    | 15381.00   | 89.54       | 89.45            | 7938.93     | 7731.34      | 656.85     | 7705.40    | 0.15             | 6170               |                   |                          |                           |

| 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 ° ' ") |
|----------|------------|-------------|------------------|-------------|--------------|------------|------------|------------------|--------------------|-------------------|-------------------------|--------------------------|
|----------|------------|-------------|------------------|-------------|--------------|------------|------------|------------------|--------------------|-------------------|-------------------------|--------------------------|

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<br>(in) | Casing Diameter<br>(in) | Survey Tool Type         | Borehole / Survey                                                               |
|-------------|------|-----------------|---------------|------------------|-------------------|-------------------------|--------------------------|---------------------------------------------------------------------------------|
|             | 1    | 0.000           | 30.000        | 1/98.425         | 30.000            | 30.000                  | NAL_NSG+MSHOT-Depth Only | Original Borehole / Oxy Turkey<br>Track 4-3 State 21H Gyro + MWD<br>0-18101' MD |
|             | 1    | 30.000          | 30.000        | Act Stns         | 30.000            | 30.000                  | NAL_NSG+MSHOT-Depth Only | Original Borehole / Oxy Turkey<br>Track 4-3 State 21H Gyro + MWD<br>0-18101' MD |
|             | 1    | 30.000          | 307.500       | Act Stns         | 30.000            | 30.000                  | NAL_NSG+MSHOT            | Original Borehole / Oxy Turkey<br>Track 4-3 State 21H Gyro + MWD                |
|             | 1    | 307.500         | 18101.000     | Act Stns         | 30.000            | 30.000                  | NAL_MWD_IFR1+MS          | Original Borehole / Oxy Turkey<br>Track 4-3 State 21H Gyro + MWD                |