

District I  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (505) 393-6161 Fax: (505) 393-0720  
District II  
811 S. First St., Artesia, NM 88210  
Phone: (505) 748-1283 Fax: (505) 748-9720  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico  
Energy, Minerals & Natural Resources Department  
OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-102  
Revised August 1, 2011  
Submit one copy to appropriate  
District Office

☒ AMENDED REPORT  
(As-Drilled)

## WELL LOCATION AND ACREAGE DEDICATION PLAT

|                                   |                                                    |                                                 |
|-----------------------------------|----------------------------------------------------|-------------------------------------------------|
| API Number<br><b>30-015-45575</b> | Pool Code<br><b>50371</b>                          | Pool Name<br><b>Pierce Crossing Bone Spring</b> |
| Property Code<br><b>323065</b>    | Property Name<br><b>WIDTH CC "6-7" FEDERAL COM</b> | Well Number<br><b>16H</b>                       |
| OGRID No.<br><b>16696</b>         | Operator Name<br><b>OXY USA INC.</b>               | Elevation<br><b>2958.7'</b>                     |

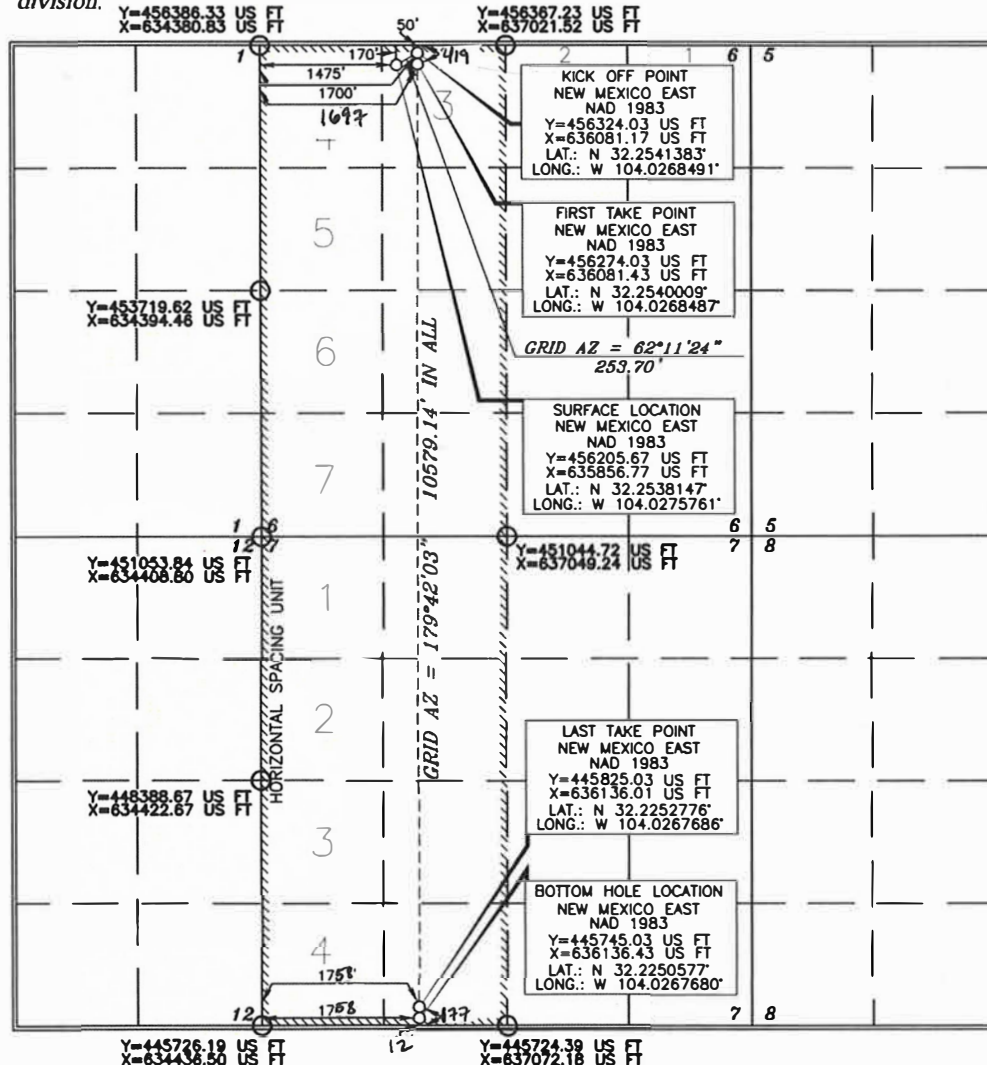
## Surface Location

| UL or lot no. | Section | Township | Range             | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------------------|---------|---------------|------------------|---------------|----------------|--------|
| 3             | 6       | 24 SOUTH | 29 EAST, N.M.P.M. |         | 170'          | NORTH            | 1475'         | WEST           | EDDY   |

## Bottom Hole Location If Different From Surface

| UL or lot no.                 | Section         | Township           | Range             | Lot Idn                                        | Feet from the  | North/South line | Feet from the           | East/West line | County |
|-------------------------------|-----------------|--------------------|-------------------|------------------------------------------------|----------------|------------------|-------------------------|----------------|--------|
| N                             | 7               | 24 SOUTH           | 29 EAST, N.M.P.M. |                                                | <del>202</del> | SOUTH            | <del>1700</del><br>1758 | WEST           | EDDY   |
| Dedicated Acres<br><b>640</b> | Joint or Infill | Consolidation Code | Order No.         | FTP- 419 FWL 1697 FWL<br>LTP- 177 FSL 1758 FWL |                |                  |                         |                |        |

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



## OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature *[Signature]* Date **3/16/20**  
Printed Name **Jana Mendiola**  
E-mail Address **jana.mendiola@oxy.com**

## SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date of Survey **FEBRUARY 28, 2019**  
Signature and Seal of Professional Surveyor *[Signature]*  
Professional Surveyor **15079**

Intent ☐ As Drilled ☒

|                                |  |                                            |                    |
|--------------------------------|--|--------------------------------------------|--------------------|
| API #<br>30-015-43575          |  |                                            |                    |
| Operator Name:<br>OXY USA Inc. |  | Property Name:<br>Widfr CC 6-7 Federal Com | Well Number<br>16H |

Kick Off Point (KOP)

|                      |              |                 |              |     |                         |               |              |               |                |
|----------------------|--------------|-----------------|--------------|-----|-------------------------|---------------|--------------|---------------|----------------|
| UL<br>C              | Section<br>6 | Township<br>24S | Range<br>29E | Lot | Feet<br>88              | From N/S<br>N | Feet<br>1583 | From E/W<br>W | County<br>Eddy |
| Latitude<br>32.25404 |              |                 |              |     | Longitude<br>-104.02723 |               |              | NAD<br>NAD83  |                |

First Take Point (FTP)

|                      |              |                 |              |     |                         |               |              |               |                |
|----------------------|--------------|-----------------|--------------|-----|-------------------------|---------------|--------------|---------------|----------------|
| UL<br>C              | Section<br>6 | Township<br>24S | Range<br>29E | Lot | Feet<br>419             | From N/S<br>N | Feet<br>1697 | From E/W<br>W | County<br>Eddy |
| Latitude<br>32.25313 |              |                 |              |     | Longitude<br>-104.02686 |               |              | NAD<br>NAD83  |                |

Last Take Point (LTP)

|                      |              |                 |              |     |                         |               |              |               |                |
|----------------------|--------------|-----------------|--------------|-----|-------------------------|---------------|--------------|---------------|----------------|
| UL<br>N              | Section<br>7 | Township<br>24S | Range<br>29E | Lot | Feet<br>177             | From N/S<br>S | Feet<br>1758 | From E/W<br>W | County<br>Eddy |
| Latitude<br>32.22551 |              |                 |              |     | Longitude<br>-104.02676 |               |              | NAD<br>NAD83  |                |

Is this well the defining well for the Horizontal Spacing Unit? ☐

Is this well an infill well? ☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

|                |  |                |             |
|----------------|--|----------------|-------------|
| API #          |  |                |             |
| Operator Name: |  | Property Name: | Well Number |

KZ 06/29/2018

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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January 16, 2020

Oxy USA Incorporated  
5 Greenway Plaza, Suite 110  
Houston, TX 77046-0521

Re:

S6, T24S, R29E Eddy, NM  
N 32.2538161 W -104.0277378

CLIENT: Oxy USA Incorporated  
WELL: Width CC 6 7 Fed Com 16H  
FIELD: Pierce Crossing-Bone Spring

RIG: H&P 656  
COUNTY: Eddy  
API NO: 30-015-45575  
JOB NO: 19MLH0366

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> |
|-----------------------------------------|----------------------------------------------|--------------------------|-----------------------------------------|-----------------------|
| Kyle Bolyard<br>FE                      | Width CC 6 7 Fed<br>Com 16H<br>Original Hole | 540.00 Ft<br>17858.00 Ft | December 13, 2019 to<br>January 7, 2020 | SlimPulse             |



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)

**Schlumberger**

Well Reference:  
S6, T24S, R29E Eddy, NM  
N 32.2538161 W -104.0277378

I, Kyle Bolyard certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of December 13, 2019 through January 07, 2020, conduct or supervise the taking of the SlimPulse surveys from a depth of 540.00 feet to a depth of 17858.00 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 Incorporated for the Width CC 6 7 Fed Com 16H Well (Original Hole) API No. 30-015-45575 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  
Kyle Bolyard  
FE

*Kyle Bolyard*

Subscribed and Sworn to before me this 16 day of January (month) 2020 (yr)

My Commission expires:

6/14/23

Notary Public

*Comanche, Oklahoma*  
(County State)

(signature)







Vertical Section (ft) Azim = 178.47° Scale = 1:1600.00(ft) Origin = 0N/-S, 0E/-W



# Oxy Width CC 6-7 Federal Com 16H Gyro + MWD 0-17901'MD Survey

## Geodetic Report

(Def Survey)



Report Date: January 08, 2020 - 03:41 PM  
 Client: OXY  
 Field: NM Eddy County (NAD 83)  
 Structure / Slot: Oxy Width CC 6-7 Federal Com 16H / Oxy Width CC 6-7 Federal Com 16H  
 Well: Oxy Width CC 6-7 Federal Com 16H  
 Borehole: Original Borehole  
 UWI / API#: Unknown / 30-015-45575  
 Survey Name: Oxy Width CC 6-7 Federal Com 16H Gyro + MWD 0-17901'MD  
 Survey Date: December 12, 2019  
 Tort / AHD / DDI / ERD Ratio: 179.883 ° / 10767.136 ft / 6.664 / 1.431  
 Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet  
 Location Lat / Long: N 32° 15' 13.73303", W 104° 1' 39.27383"  
 Location Grid N/E Y/X: N 456205.670 rUS, E 635856.770 rUS  
 CRS Grid Convergence Angle: 0.1632 °  
 Grid Scale Factor: 0.99991932  
 Version / Patch: 2.10.782.0

Survey / DLS Computation: Minimum Curvature / Lubinski  
 Vertical Section Azimuth: 178.470 ° (Grid North)  
 Vertical Section Origin: 0.000 ft, 0.000 ft  
 TVD Reference Datum: RKB = 26.5'  
 TVD Reference Elevation: 2985.200 ft above MSL  
 Seabed / Ground Elevation: 2958.700 ft above MSL  
 Magnetic Declination: 6.957 °  
 Total Gravity Field Strength: 998.4716mgn (9.80665 Based)  
 Gravity Model: GARM  
 Total Magnetic Field Strength: 47857.100 nT  
 Magnetic Dip Angle: 59.976 °  
 Declination Date: December 12, 2019  
 Magnetic Declination Model: IFR1  
 North Reference: Grid North  
 Grid Convergence Used: 0.1632 °  
 Total Corr Mag North->Grid North: 6.7938 °  
 Local Coord Referenced To: Well Head

| Comments  | MD<br>(ft) | Incl<br>(°) | Azim Grid<br>(°) | TVD<br>(ft) | VSEC<br>(ft) | NS<br>(ft) | EW<br>(ft) | DLS<br>(°/100ft) | Northing<br>(ftUS) | Easting<br>(ftUS) | Latitude<br>(N/S ° ' ") | Longitude<br>(E/W ° ' ") |
|-----------|------------|-------------|------------------|-------------|--------------|------------|------------|------------------|--------------------|-------------------|-------------------------|--------------------------|
| WRP       | 0.00       | 0.00        | 0.00             | 0.00        | 0.00         | 0.00       | 0.00       | N/A              | 456205.67          | 635856.77         | N 32 15 13.73 W 104     | 1 39 27                  |
| SHL       | 26.50      | 0.00        | 0.00             | 26.50       | 0.00         | 0.00       | 0.00       | 0.00             | 456205.67          | 635856.77         | N 32 15 13.73 W 104     | 1 39 27                  |
|           | 57.10      | 0.12        | 22.28            | 57.10       | -0.03        | 0.03       | 0.01       | 0.39             | 456205.70          | 635856.78         | N 32 15 13.73 W 104     | 1 39 27                  |
|           | 85.20      | 0.24        | 34.15            | 85.20       | -0.10        | 0.11       | 0.06       | 0.44             | 456205.76          | 635856.83         | N 32 15 13.73 W 104     | 1 39 27                  |
|           | 111.40     | 0.14        | 48.92            | 111.40      | -0.17        | 0.17       | 0.11       | 0.42             | 456205.84          | 635856.88         | N 32 15 13.73 W 104     | 1 39 27                  |
|           | 141.40     | 0.19        | 51.60            | 141.40      | -0.22        | 0.23       | 0.18       | 0.17             | 456205.90          | 635856.95         | N 32 15 13.74 W 104     | 1 39 27                  |
|           | 170.80     | 0.28        | 43.70            | 170.80      | -0.30        | 0.31       | 0.27       | 0.32             | 456205.98          | 635857.04         | N 32 15 13.74 W 104     | 1 39 27                  |
|           | 197.90     | 0.38        | 38.38            | 197.90      | -0.42        | 0.43       | 0.37       | 0.39             | 456206.10          | 635857.14         | N 32 15 13.74 W 104     | 1 39 27                  |
|           | 228.30     | 0.51        | 26.50            | 228.30      | -0.61        | 0.63       | 0.49       | 0.52             | 456206.30          | 635857.26         | N 32 15 13.74 W 104     | 1 39 27                  |
|           | 254.80     | 0.61        | 23.82            | 254.80      | -0.85        | 0.86       | 0.60       | 0.39             | 456206.53          | 635857.37         | N 32 15 13.74 W 104     | 1 39 27                  |
|           | 284.20     | 0.60        | 24.51            | 284.20      | -1.13        | 1.15       | 0.73       | 0.04             | 456206.82          | 635857.50         | N 32 15 13.74 W 104     | 1 39 27                  |
|           | 315.80     | 0.65        | 20.61            | 315.79      | -1.44        | 1.46       | 0.86       | 0.21             | 456207.13          | 635857.63         | N 32 15 13.75 W 104     | 1 39 26                  |
|           | 347.30     | 0.77        | 23.00            | 347.29      | -1.80        | 1.83       | 1.00       | 0.39             | 456207.50          | 635857.77         | N 32 15 13.75 W 104     | 1 39 26                  |
|           | 378.80     | 0.87        | 22.53            | 378.79      | -2.21        | 2.24       | 1.18       | 0.32             | 456207.91          | 635857.95         | N 32 15 13.76 W 104     | 1 39 26                  |
|           | 410.40     | 0.82        | 20.81            | 410.38      | -2.64        | 2.67       | 1.35       | 0.18             | 456208.34          | 635858.12         | N 32 15 13.76 W 104     | 1 39 26                  |
|           | 421.20     | 0.85        | 16.07            | 421.18      | -2.79        | 2.82       | 1.40       | 0.70             | 456208.49          | 635858.17         | N 32 15 13.76 W 104     | 1 39 26                  |
| Last Gyro | 540.00     | 0.72        | 39.71            | 539.97      | -4.19        | 4.24       | 2.12       | 0.29             | 456209.91          | 635858.89         | N 32 15 13.77 W 104     | 1 39 25                  |
|           | 632.00     | 0.07        | 158.36           | 631.97      | -4.57        | 4.64       | 2.51       | 0.82             | 456210.31          | 635859.28         | N 32 15 13.78 W 104     | 1 39 24                  |
|           | 814.00     | 0.03        | 87.01            | 813.97      | -4.47        | 4.54       | 2.60       | 0.04             | 456210.21          | 635859.37         | N 32 15 13.78 W 104     | 1 39 24                  |
|           | 904.00     | 0.03        | 89.26            | 903.97      | -4.47        | 4.54       | 2.65       | 0.00             | 456210.21          | 635859.42         | N 32 15 13.78 W 104     | 1 39 24                  |
|           | 995.00     | 0.08        | 261.00           | 994.97      | -4.46        | 4.53       | 2.61       | 0.12             | 456210.20          | 635859.38         | N 32 15 13.78 W 104     | 1 39 24                  |
|           | 1176.00    | 0.03        | 44.29            | 1175.97     | -4.47        | 4.54       | 2.52       | 0.06             | 456210.21          | 635859.29         | N 32 15 13.78 W 104     | 1 39 24                  |
|           | 1267.00    | 0.05        | 38.70            | 1266.97     | -4.52        | 4.59       | 2.56       | 0.02             | 456210.26          | 635859.33         | N 32 15 13.78 W 104     | 1 39 24                  |
|           | 1357.00    | 0.14        | 234.55           | 1356.97     | -4.49        | 4.56       | 2.49       | 0.21             | 456210.23          | 635859.26         | N 32 15 13.78 W 104     | 1 39 24                  |
|           | 1448.00    | 0.05        | 95.10            | 1447.97     | -4.42        | 4.49       | 2.44       | 0.20             | 456210.16          | 635859.21         | N 32 15 13.78 W 104     | 1 39 25                  |
|           | 1538.00    | 0.12        | 101.11           | 1537.97     | -4.40        | 4.47       | 2.57       | 0.08             | 456210.14          | 635859.34         | N 32 15 13.78 W 104     | 1 39 24                  |
|           | 1629.00    | 0.03        | 226.07           | 1628.97     | -4.36        | 4.43       | 2.65       | 0.15             | 456210.10          | 635859.42         | N 32 15 13.78 W 104     | 1 39 24                  |
|           | 1727.00    | 0.08        | 315.45           | 1726.97     | -4.39        | 4.46       | 2.58       | 0.09             | 456210.13          | 635859.35         | N 32 15 13.78 W 104     | 1 39 24                  |
|           | 1822.00    | 0.07        | 347.34           | 1821.97     | -4.50        | 4.57       | 2.52       | 0.04             | 456210.24          | 635859.29         | N 32 15 13.78 W 104     | 1 39 24                  |
|           | 1917.00    | 0.08        | 219.39           | 1916.97     | -4.51        | 4.57       | 2.47       | 0.14             | 456210.24          | 635859.24         | N 32 15 13.78 W 104     | 1 39 24                  |
|           | 2012.00    | 0.12        | 274.50           | 2011.97     | -4.47        | 4.53       | 2.33       | 0.10             | 456210.20          | 635859.10         | N 32 15 13.78 W 104     | 1 39 25                  |
|           | 2107.00    | 0.14        | 186.30           | 2106.97     | -4.36        | 4.42       | 2.22       | 0.19             | 456210.09          | 635858.99         | N 32 15 13.78 W 104     | 1 39 25                  |
|           | 2202.00    | 0.14        | 119.25           | 2201.97     | -4.19        | 4.25       | 2.30       | 0.16             | 456209.92          | 635859.07         | N 32 15 13.78 W 104     | 1 39 25                  |
|           | 2297.00    | 0.14        | 132.12           | 2296.97     | -4.05        | 4.12       | 2.49       | 0.03             | 456209.78          | 635859.26         | N 32 15 13.77 W 104     | 1 39 24                  |
|           | 2391.00    | 0.17        | 233.93           | 2390.97     | -3.89        | 3.96       | 2.46       | 0.26             | 456209.63          | 635859.23         | N 32 15 13.77 W 104     | 1 39 25                  |
|           | 2486.00    | 0.39        | 148.78           | 2485.97     | -3.53        | 3.60       | 2.52       | 0.43             | 456209.27          | 635859.29         | N 32 15 13.77 W 104     | 1 39 24                  |
|           | 2581.00    | 0.22        | 303.39           | 2580.97     | -3.35        | 3.42       | 2.53       | 0.63             | 456209.09          | 635859.30         | N 32 15 13.77 W 104     | 1 39 24                  |
|           | 2676.00    | 0.37        | 234.98           | 2675.97     | -3.29        | 3.34       | 2.13       | 0.37             | 456209.01          | 635858.90         | N 32 15 13.77 W 104     | 1 39 25                  |
|           | 2771.00    | 0.31        | 125.93           | 2770.96     | -2.96        | 3.02       | 2.09       | 0.58             | 456208.69          | 635858.86         | N 32 15 13.76 W 104     | 1 39 25                  |
|           | 2866.00    | 0.08        | 83.49            | 2865.96     | -2.81        | 2.87       | 2.36       | 0.27             | 456208.54          | 635859.13         | N 32 15 13.76 W 104     | 1 39 25                  |
|           | 3056.00    | 0.08        | 27.42            | 3055.96     | -2.94        | 3.01       | 2.55       | 0.04             | 456208.68          | 635859.32         | N 32 15 13.76 W 104     | 1 39 24                  |
|           | 3151.00    | 0.10        | 19.39            | 3150.96     | -3.07        | 3.14       | 2.61       | 0.02             | 456208.81          | 635859.38         | N 32 15 13.76 W 104     | 1 39 24                  |
|           | 3246.00    | 0.03        | 142.85           | 3245.96     | -3.13        | 3.20       | 2.65       | 0.13             | 456208.87          | 635859.42         | N 32 15 13.76 W 104     | 1 39 24                  |
|           | 3341.00    | 0.08        | 166.74           | 3340.96     | -3.05        | 3.12       | 2.68       | 0.06             | 456208.79          | 635859.45         | N 32 15 13.76 W 104     | 1 39 24                  |
|           | 3436.00    | 0.12        | 259.57           | 3435.96     | -2.97        | 3.04       | 2.60       | 0.16             | 456208.71          | 635859.37         | N 32 15 13.76 W 104     | 1 39 24                  |
|           | 3531.00    | 0.03        | 276.97           | 3530.96     | -2.95        | 3.02       | 2.48       | 0.10             | 456208.69          | 635859.25         | N 32 15 13.76 W 104     | 1 39 24                  |
|           | 3626.00    | 0.05        | 55.46            | 3625.96     | -2.98        | 3.05       | 2.49       | 0.08             | 456208.72          | 635859.26         | N 32 15 13.76 W 104     | 1 39 24                  |
|           | 3721.00    | 0.14        | 171.19           | 3720.96     | -2.89        | 2.96       | 2.54       | 0.18             | 456208.63          | 635859.31         | N 32 15 13.76 W 104     | 1 39 24                  |
|           | 3816.00    | 0.15        | 218.25           | 3815.96     | -2.68        | 2.74       | 2.48       | 0.12             | 456208.41          | 635859.25         | N 32 15 13.76 W 104     | 1 39 24                  |
|           | 3911.00    | 0.08        | 358.86           | 3910.96     | -2.65        | 2.71       | 2.40       | 0.23             | 456208.38          | 635859.17         | N 32 15 13.76 W 104     | 1 39 25                  |
|           | 4006.00    | 0.00        | 6.79             | 4005.96     | -2.71        | 2.78       | 2.40       | 0.08             | 456208.45          | 635859.17         | N 32 15 13.76 W 104     | 1 39 25                  |
|           | 4101.00    | 0.10        | 273.11           | 4100.96     | -2.72        | 2.78       | 2.32       | 0.11             | 456208.45          | 635859.09         | N 32 15 13.76 W 104     | 1 39 25                  |
|           | 4196.00    | 0.03        | 265.87           | 4195.96     | -2.73        | 2.79       | 2.21       | 0.07             | 456208.46          | 635858.98         | N 32 15 13.76 W 104     | 1 39 25                  |
|           | 4291.00    | 0.30        | 159.11           | 4290.96     | -2.49        | 2.55       | 2.28       | 0.33             | 456208.22          | 635859.05         | N 32 15 13.76 W 104     | 1 39 25                  |
|           | 4386.00    | 0.22        | 185.39           | 4385.96     | -2.07        | 2.14       | 2.35       | 0.15             | 456207.81          | 635859.12         | N 32 15 13.75 W 104     | 1 39 25                  |
|           | 4481.00    | 0.11        | 158.86           | 4480.96     | -1.81        | 1.87       | 2.36       | 0.14             | 456207.54          | 635859.13         | N 32 15 13.75 W 104     | 1 39 25                  |
|           | 4670.00    | 0.05        | 268.91           | 4669.96     | -1.64        | 1.70       | 2.35       | 0.07             | 456207.37          | 635859.12         | N 32 15 13.75 W 104     | 1 39 25                  |
|           | 4765.00    | 0.08        | 91.43            | 4764.96     | -1.63        | 1.70       | 2.37       | 0.14             | 456207.37          | 635859.14         | N 32 15 13.75 W 104     | 1 39 25                  |
|           | 4860.00    | 0.30        | 209.60           | 4859.96     | -1.42        | 1.48       | 2.31       | 0.36             | 456207.15          | 635859.08         | N 32 15 13.75 W 104     | 1 39 25                  |
|           | 4955.00    | 0.14        | 202.55           | 4954.96     | -1.10        | 1.16       | 2.15       | 0.17             | 456206.83          | 635858.92         | N 32 15 13.74 W 104     | 1 39 25                  |
|           | 5050.00    | 0.14        | 102.38           | 5049.96     | -0.97        | 1.02       | 2.22       | 0.23             | 456206.69          | 635858.99         | N 32 15 13.74 W 104     | 1 39 25                  |
|           | 5145.00    | 0.14        | 248.26           | 5144.96     | -0.90        | 0.96       | 2.22       | 0.28             | 456206.63          | 635858.99         | N 32 15 13.74 W 104     | 1 39 25                  |
|           | 5240.00    | 0.15        | 164.94           | 5239.96     | -0.74        | 0.79       | 2.15       | 0.20             | 456206.46          | 635858.92         | N 32 15 13.74 W 104     | 1 39 25                  |
|           | 5300.00    | 0.32        | 241.11           | 5300.05     | -0.58        | 0.64       | 2.02       | 0.53             | 456206.31          | 635858.79         | N 32 15 13.74 W 104     | 1 39 25                  |
|           | 5335.00    | 0.25        | 131.00           | 5334.96     | -0.49        | 0.54       | 1.99       | 1.34             | 456206.21          | 635858.76         | N 32 15 13.74 W 104     | 1 39 25                  |
|           | 5430.00    | 0.32        | 275.06           | 5429.96     | -0.38        | 0.43       | 1.88       | 0.57             | 456206.10          | 635858.65         | N 32 15 13.74 W 104     | 1 39 25                  |
|           | 5525.00    | 0.34        | 44.81            | 5524.96     | -0.60        | 0.65       | 1.82       | 0.63             | 456206.32          | 635858.59         | N 32 15 13.74 W 104     | 1 39 25                  |
|           | 5620.00    | 1.29        | 72.35            | 5619.95     | -1.09        | 1.17       | 3.04       | 1.05             | 456206.84          | 635859.81         | N 32 15 13.74 W 104     | 1 39 24                  |
|           | 5715.00    | 2.21        | 73.67            | 5714.90     | -1.86        | 2.01       | 5.81       | 0.97             | 456207.68          | 635862.58         | N 32 15 13.75 W 104     | 1 39 21                  |
|           | 5810.00    | 2.85        | 75.96            | 5809.81     | -2.84        | 3.10       | 9.86       | 0.68             | 456207.75          | 635866.63         | N 32 15 13.76 W 104     | 1 39 16                  |
|           | 5905.00    | 3.53        | 82.01            | 5904.66     | -3.68        | 4.08       | 15.05      | 0.80             | 456209.75          | 635871.82         | N 32 15 13.77 W 104     | 1 39 10                  |
|           | 6000.00    | 4.26        | 72.61            | 5999.44     | -4.97        | 5.54       | 21.31      | 1.02             | 456211.21          | 635878.08         | N 32 15 13.79 W 104     | 1 39 03                  |
|           | 6095.00    | 5.72        | 61.30            | 6094.08     | -8.10        | 8.87       | 28.83      | 1.85             | 456214.54          | 635885.60         | N 32 15 13.82 W 104     | 1 38 94                  |
|           | 6190.00    | 6.88        | 53.34            | 6188.51     | -13.53       | 14.54      | 37.55      | 1.53             | 456220.21          | 635894.32         | N 32 15 13.88 W 104     | 1 38 84                  |
|           | 6285.00    | 8.76        | 51.26            | 6282.02     | -21.18       | 22.47      | 47.76      | 2.00             | 456228.14          | 635904.52         | N 32 15 13.95 W 104     | 1 38 72                  |
|           | 6380.00    | 9.55        | 45.68            | 6376.41     | -30.91       | 32.50      | 59.04      | 1.25             | 456238.17          | 635915.80         |                         |                          |

| 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 ° ' ") |
|---------------------------------|------------|-------------|------------------|-------------|--------------|------------|------------|------------------|--------------------|-------------------|-------------------------|--------------------------|
| KOP Actual                      | 6665.00    | 10.85       | 43.47            | 6656.66     | -66.67       | 69.25      | 95.50      | 0.36             | 456274.91          | 635952.27         | N 32 15 14.42 W 104     | 1 38.16                  |
|                                 | 6760.00    | 10.36       | 44.12            | 6750.04     | -78.97       | 81.87      | 107.60     | 0.53             | 456287.53          | 635964.36         | N 32 15 14.54 W 104     | 1 38.02                  |
|                                 | 6806.00    | 10.34       | 49.80            | 6795.29     | -84.44       | 87.50      | 113.63     | 2.22             | 456293.17          | 635970.40         | N 32 15 14.60 W 104     | 1 37.95                  |
|                                 | 6949.00    | 6.28        | 78.25            | 6936.82     | -93.85       | 97.39      | 131.11     | 3.96             | 456303.05          | 635987.87         | N 32 15 14.69 W 104     | 1 37.74                  |
|                                 | 7044.00    | 13.06       | 115.08           | 7030.49     | -89.96       | 93.89      | 145.95     | 9.32             | 456299.55          | 636002.70         | N 32 15 14.66 W 104     | 1 37.57                  |
|                                 | 7139.00    | 20.65       | 142.44           | 7121.48     | -71.55       | 76.01      | 165.94     | 11.36            | 456281.67          | 636022.70         | N 32 15 14.48 W 104     | 1 37.34                  |
| 100' FNL<br>Crossed             | 7165.00    | 19.72       | 148.96           | 7145.89     | -64.02       | 68.61      | 171.00     | 9.35             | 456274.28          | 636027.75         | N 32 15 14.41 W 104     | 1 37.28                  |
|                                 | 7234.00    | 18.56       | 168.41           | 7211.14     | -43.06       | 47.86      | 179.21     | 9.35             | 456253.53          | 636035.97         | N 32 15 14.20 W 104     | 1 37.19                  |
|                                 | 7329.00    | 24.11       | 171.09           | 7299.59     | -8.90        | 13.85      | 185.26     | 5.93             | 456219.52          | 636042.02         | N 32 15 13.86 W 104     | 1 37.12                  |
|                                 | 7424.00    | 36.63       | 172.62           | 7381.40     | 38.72        | -33.61     | 191.93     | 13.20            | 456172.06          | 636048.69         | N 32 15 13.40 W 104     | 1 37.04                  |
|                                 | 7519.00    | 51.73       | 170.20           | 7449.33     | 104.21       | -98.85     | 201.98     | 15.99            | 456106.83          | 636058.73         | N 32 15 12.75 W 104     | 1 36.93                  |
|                                 |            |             |                  |             |              |            |            |                  |                    |                   |                         |                          |
| 1st Bone Spring<br>Intersection | 7528.31    | 53.30       | 170.41           | 7455.00     | 111.52       | -106.13    | 203.22     | 16.99            | 456099.55          | 636059.98         | N 32 15 12.68 W 104     | 1 36.91                  |
|                                 | 7614.00    | 67.79       | 172.06           | 7497.03     | 185.35       | -179.69    | 214.49     | 16.99            | 456026.00          | 636071.24         | N 32 15 11.95 W 104     | 1 36.78                  |
|                                 | 7708.00    | 88.18       | 177.34           | 7516.50     | 276.58       | -270.73    | 222.77     | 22.37            | 455934.96          | 636079.52         | N 32 15 11.05 W 104     | 1 36.69                  |
|                                 | 7779.00    | 89.69       | 176.91           | 7517.82     | 347.55       | -341.63    | 226.33     | 2.21             | 455864.07          | 636083.08         | N 32 15 10.35 W 104     | 1 36.65                  |
|                                 | 7821.00    | 88.49       | 176.00           | 7518.49     | 389.52       | -383.54    | 228.93     | 3.59             | 455822.16          | 636085.68         | N 32 15 9.93 W 104      | 1 36.62                  |
|                                 | 7916.00    | 89.07       | 175.89           | 7520.51     | 484.40       | -478.28    | 235.64     | 0.62             | 455727.43          | 636092.39         | N 32 15 8.99 W 104      | 1 36.55                  |
|                                 | 8106.00    | 90.00       | 178.44           | 7522.05     | 674.33       | -668.02    | 245.04     | 1.43             | 455537.70          | 636101.79         | N 32 15 7.12 W 104      | 1 36.44                  |
|                                 | 8266.00    | 89.97       | 180.32           | 7522.10     | 864.30       | -858.00    | 247.10     | 0.99             | 455347.74          | 636103.84         | N 32 15 5.24 W 104      | 1 36.43                  |
|                                 | 8485.00    | 89.93       | 179.82           | 7522.27     | 1053.22      | -1047.00   | 246.86     | 0.27             | 455158.75          | 636103.61         | N 32 15 3.37 W 104      | 1 36.43                  |
|                                 | 8578.00    | 89.66       | 179.58           | 7522.60     | 1146.20      | -1140.00   | 247.35     | 0.39             | 455065.76          | 636104.10         | N 32 15 2.45 W 104      | 1 36.43                  |
|                                 | 8764.00    | 90.07       | 179.39           | 7523.04     | 1332.17      | -1325.99   | 249.02     | 0.24             | 454879.79          | 636105.77         | N 32 15 0.61 W 104      | 1 36.42                  |
|                                 | 8949.00    | 90.45       | 180.68           | 7522.20     | 1517.09      | -1510.99   | 248.91     | 0.73             | 454694.81          | 636105.66         | N 32 14 58.77 W 104     | 1 36.43                  |
|                                 | 9135.00    | 89.38       | 181.84           | 7522.48     | 1702.87      | -1696.94   | 244.82     | 0.85             | 454508.87          | 636101.57         | N 32 14 56.93 W 104     | 1 36.48                  |
|                                 | 9320.00    | 90.00       | 181.90           | 7523.48     | 1887.54      | -1881.83   | 238.78     | 0.34             | 454323.99          | 636095.53         | N 32 14 55.11 W 104     | 1 36.56                  |
|                                 | 9413.00    | 89.76       | 182.32           | 7523.67     | 1980.35      | -1974.77   | 235.36     | 0.52             | 454231.06          | 636092.11         | N 32 14 54.19 W 104     | 1 36.60                  |
|                                 | 9599.00    | 90.14       | 180.33           | 7523.83     | 2166.11      | -2160.71   | 231.06     | 1.09             | 454045.14          | 636087.81         | N 32 14 52.35 W 104     | 1 36.66                  |
|                                 | 9784.00    | 91.10       | 180.80           | 7521.83     | 2350.97      | -2345.69   | 229.23     | 0.58             | 453860.18          | 636085.99         | N 32 14 50.52 W 104     | 1 36.68                  |
|                                 | 9972.00    | 90.72       | 181.99           | 7518.85     | 2538.70      | -2533.60   | 224.66     | 0.66             | 453672.27          | 636081.41         | N 32 14 48.66 W 104     | 1 36.74                  |
|                                 | 10162.00   | 90.62       | 180.10           | 7516.62     | 2728.49      | -2723.55   | 221.19     | 1.00             | 453482.34          | 636077.95         | N 32 14 46.78 W 104     | 1 36.79                  |
|                                 | 10352.00   | 90.83       | 180.00           | 7514.22     | 2918.40      | -2913.54   | 221.03     | 0.12             | 453292.37          | 636077.78         | N 32 14 44.90 W 104     | 1 36.80                  |
|                                 | 10541.00   | 90.52       | 179.90           | 7511.99     | 3107.32      | -3102.52   | 221.19     | 0.17             | 453103.40          | 636077.94         | N 32 14 43.03 W 104     | 1 36.80                  |
|                                 | 10636.00   | 90.76       | 180.62           | 7510.93     | 3202.27      | -3197.52   | 220.76     | 0.80             | 453008.42          | 636077.51         | N 32 14 42.09 W 104     | 1 36.81                  |
|                                 | 10826.00   | 90.10       | 180.11           | 7509.51     | 3392.16      | -3387.50   | 219.55     | 0.44             | 452818.45          | 636076.30         | N 32 14 40.21 W 104     | 1 36.83                  |
|                                 | 11016.00   | 89.76       | 179.74           | 7509.74     | 3582.10      | -3577.50   | 219.80     | 0.26             | 452628.46          | 636076.55         | N 32 14 38.33 W 104     | 1 36.83                  |
|                                 | 11206.00   | 89.90       | 180.31           | 7510.30     | 3772.03      | -3767.50   | 219.72     | 0.31             | 452438.48          | 636076.47         | N 32 14 36.45 W 104     | 1 36.84                  |
|                                 | 11396.00   | 90.00       | 180.28           | 7510.47     | 3961.93      | -3957.50   | 218.74     | 0.05             | 452248.50          | 636075.49         | N 32 14 34.57 W 104     | 1 36.86                  |
|                                 | 11491.00   | 90.03       | 180.08           | 7510.44     | 4056.89      | -4052.50   | 218.44     | 0.21             | 452153.51          | 636075.19         | N 32 14 33.63 W 104     | 1 36.86                  |
|                                 | 11586.00   | 90.21       | 180.69           | 7510.25     | 4151.83      | -4147.50   | 217.80     | 0.67             | 452058.52          | 636074.55         | N 32 14 32.69 W 104     | 1 36.88                  |
|                                 | 11776.00   | 90.45       | 180.65           | 7509.15     | 4341.69      | -4337.48   | 215.58     | 0.13             | 451868.55          | 636072.33         | N 32 14 30.81 W 104     | 1 36.91                  |
|                                 | 11871.00   | 89.97       | 180.69           | 7508.80     | 4436.62      | -4432.47   | 214.47     | 0.51             | 451773.56          | 636071.22         | N 32 14 29.87 W 104     | 1 36.92                  |
|                                 | 12061.00   | 89.86       | 180.78           | 7509.08     | 4626.47      | -4622.46   | 212.03     | 0.07             | 451583.60          | 636068.78         | N 32 14 27.99 W 104     | 1 36.96                  |
|                                 | 12251.00   | 89.86       | 178.62           | 7509.55     | 4816.41      | -4812.44   | 213.03     | 1.14             | 451393.63          | 636069.78         | N 32 14 26.11 W 104     | 1 36.95                  |
|                                 | 12441.00   | 89.93       | 178.51           | 7509.90     | 5006.41      | -5002.38   | 217.78     | 0.07             | 451203.70          | 636074.54         | N 32 14 24.23 W 104     | 1 36.90                  |
|                                 | 12536.00   | 90.14       | 178.62           | 7509.84     | 5101.41      | -5097.35   | 220.16     | 0.25             | 451108.74          | 636076.92         | N 32 14 23.29 W 104     | 1 36.88                  |
|                                 | 12726.00   | 90.28       | 179.16           | 7509.14     | 5291.41      | -5287.31   | 223.84     | 0.29             | 450918.79          | 636080.60         | N 32 14 21.41 W 104     | 1 36.84                  |
|                                 | 12821.00   | 89.72       | 178.48           | 7509.14     | 5386.40      | -5382.29   | 225.80     | 0.93             | 450823.82          | 636082.55         | N 32 14 20.47 W 104     | 1 36.82                  |
|                                 | 13011.00   | 90.14       | 178.44           | 7509.37     | 5576.40      | -5572.22   | 230.91     | 0.22             | 450633.91          | 636087.66         | N 32 14 18.59 W 104     | 1 36.77                  |
|                                 | 13201.00   | 90.31       | 177.58           | 7508.63     | 5766.39      | -5762.11   | 237.50     | 0.46             | 450444.04          | 636094.26         | N 32 14 16.71 W 104     | 1 36.70                  |
|                                 | 13391.00   | 90.76       | 177.50           | 7506.85     | 5956.36      | -5951.92   | 245.66     | 0.24             | 450254.24          | 636102.41         | N 32 14 14.83 W 104     | 1 36.61                  |
|                                 | 13581.00   | 90.48       | 177.40           | 7504.80     | 6146.32      | -6141.72   | 254.11     | 0.16             | 450064.46          | 636110.86         | N 32 14 12.95 W 104     | 1 36.52                  |
|                                 | 13771.00   | 90.41       | 177.77           | 7503.32     | 6336.29      | -6331.55   | 262.12     | 0.20             | 449874.65          | 636118.87         | N 32 14 11.07 W 104     | 1 36.43                  |
|                                 | 13961.00   | 90.41       | 177.84           | 7501.96     | 6526.27      | -6521.40   | 269.40     | 0.04             | 449684.81          | 636126.14         | N 32 14 9.20 W 104      | 1 36.35                  |
|                                 | 14151.00   | 90.34       | 177.92           | 7500.72     | 6716.26      | -6711.27   | 276.42     | 0.06             | 449494.96          | 636133.17         | N 32 14 7.32 W 104      | 1 36.28                  |
|                                 | 14340.00   | 90.21       | 179.36           | 7499.81     | 6905.25      | -6900.21   | 280.91     | 0.76             | 449306.03          | 636137.66         | N 32 14 5.45 W 104      | 1 36.23                  |
|                                 | 14530.00   | 90.34       | 180.63           | 7498.90     | 7095.18      | -7090.20   | 280.93     | 0.67             | 449116.05          | 636137.67         | N 32 14 3.57 W 104      | 1 36.24                  |
|                                 | 14625.00   | 90.69       | 181.26           | 7498.05     | 7190.08      | -7185.19   | 279.36     | 0.76             | 449021.08          | 636136.11         | N 32 14 2.63 W 104      | 1 36.26                  |
|                                 | 14815.00   | 91.44       | 180.18           | 7494.52     | 7379.90      | -7375.13   | 276.97     | 0.69             | 448831.15          | 636133.72         | N 32 14 0.75 W 104      | 1 36.29                  |
|                                 | 15005.00   | 90.48       | 180.18           | 7491.33     | 7569.79      | -7565.10   | 276.37     | 0.51             | 448641.19          | 636133.12         | N 32 13 58.87 W 104     | 1 36.31                  |
|                                 | 15195.00   | 90.07       | 178.89           | 7490.42     | 7759.75      | -7755.09   | 277.92     | 0.71             | 448451.22          | 636134.66         | N 32 13 56.99 W 104     | 1 36.30                  |
|                                 | 15385.00   | 90.65       | 177.87           | 7489.23     | 7949.74      | -7945.01   | 283.29     | 0.62             | 448261.32          | 636140.03         | N 32 13 55.11 W 104     | 1 36.24                  |
|                                 | 15480.00   | 90.34       | 179.14           | 7488.41     | 8044.73      | -8039.97   | 285.77     | 1.38             | 448166.36          | 636142.51         | N 32 13 54.17 W 104     | 1 36.21                  |
|                                 | 15575.00   | 90.62       | 179.80           | 7487.61     | 8139.72      | -8134.96   | 286.65     | 0.75             | 448071.38          | 636143.39         | N 32 13 53.23 W 104     | 1 36.21                  |
|                                 | 15765.00   | 90.41       | 180.91           | 7485.90     | 8329.60      | -8324.95   | 285.47     | 0.59             | 447881.41          | 636142.21         | N 32 13 51.35 W 104     | 1 36.23                  |
|                                 | 15860.00   | 90.69       | 180.68           | 7484.99     | 8424.52      | -8419.93   | 284.15     | 0.38             | 447786.43          | 636140.90         | N 32 13 50.41 W 104     | 1 36.24                  |
|                                 | 16050.00   | 90.55       | 179.59           | 7482.93     | 8614.42      | -8609.92   | 283.70     | 0.58             | 447596.46          | 636140.45         | N 32 13 48.53 W 104     | 1 36.26                  |
|                                 | 16240.00   | 90.34       | 179.70           | 7481.46     | 8804.38      | -8800.38   | 284.88     | 0.12             | 447406.49          | 636141.63         | N 32 13 46.65 W 104     | 1 36.25                  |
|                                 | 16335.00   | 90.38       | 179.59           | 7480.86     | 8899.36      | -8894.91   | 285.47     | 0.12             | 447311.50          | 636142.21         | N 32 13 45.71 W 104     | 1 36.25                  |
|                                 | 16524.00   | 90.52       | 180.01           | 7479.38     |              |            |            |                  |                    |                   |                         |                          |

| 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 ° ' ") |
|----------|------------|-------------|------------------|-------------|--------------|------------|------------|------------------------|----------------------------------------------------------------------------------|-------------------|-------------------------|--------------------------|
|          |            | 1           | 7234.000         | 17901.000   | Act Stns     | 26.400     | 26.400     | A010Mb_MWD+IFR1+SAG+MS | Original Borehole / Oxy Width CC<br>6-7 Federal Com 16H Gyro +<br>MWD 0-17901'MD |                   |                         |                          |