

RECEIVED

District I  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720  
District II  
811 S. First St., Artesia, NM 88210  
Phone: (575) 748-1283 Fax: (575) 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 MAR 10 2020  
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>30-015-46400</b> | Pool Code<br><b>98220</b>                           | Pool Name<br><b>Purple Sage Wolfcamp</b> |
| Property Code<br><b>321633</b>    | Property Name<br><b>OXBOW CC "17_8" FEDERAL COM</b> | Well Number<br><b>37H</b>                |
| OGRID No.<br><b>16696</b>         | Operator Name<br><b>OXY USA INC.</b>                | Elevation<br><b>2936.1'</b>              |

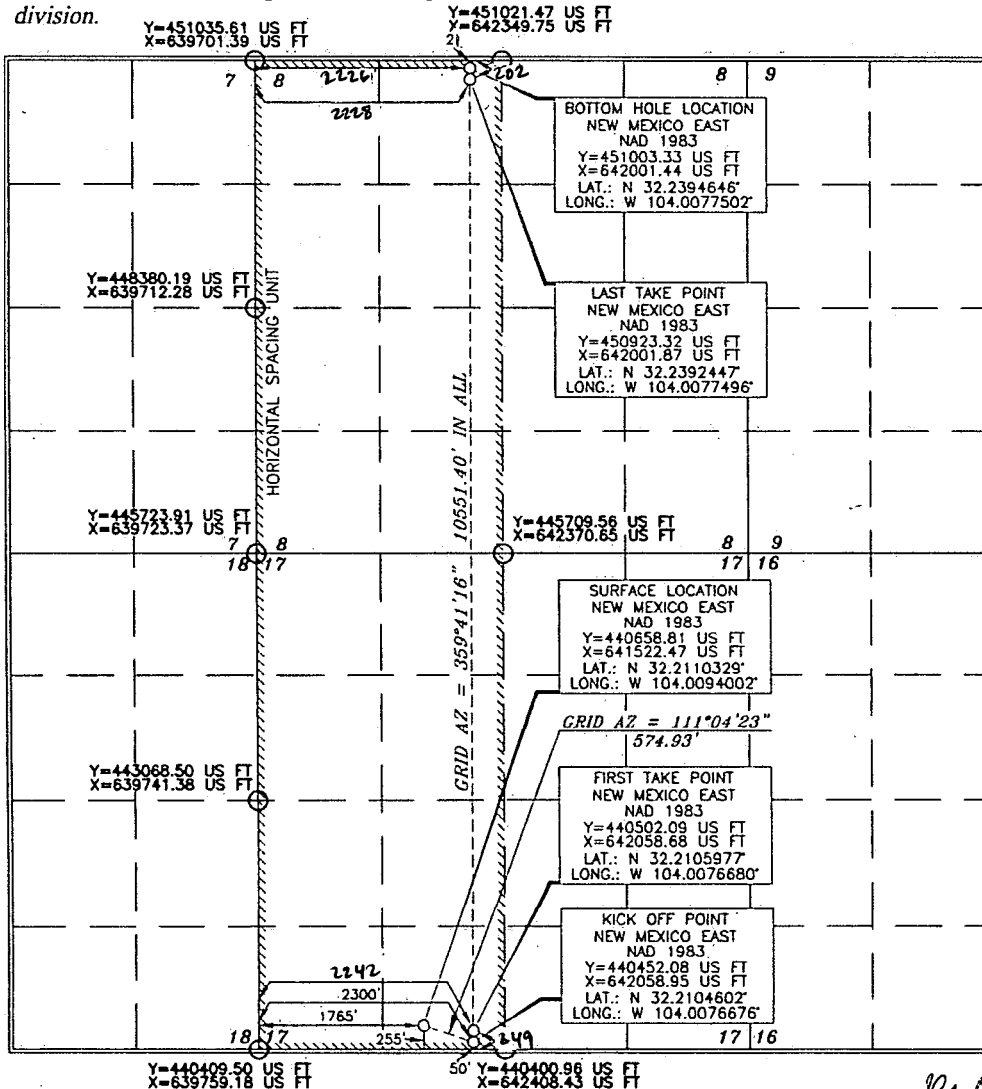
Surface Location

| UL or lot no. | Section | Township | Range             | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------------------|---------|---------------|------------------|---------------|----------------|--------|
| N             | 17      | 24 SOUTH | 29 EAST, N.M.P.M. |         | 255'          | SOUTH            | 1765'         | 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 |
|-------------------------------|-----------------------------|--------------------|-------------------|-----------------------------------------------------------------------|---------------|------------------|---------------|----------------|--------|
| C                             | 8                           | 24 SOUTH           | 29 EAST, N.M.P.M. |                                                                       | -20' 21       | NORTH            | -2300' 2226   | WEST           | EDDY   |
| Dedicated Acres<br><b>640</b> | Joint or Infill<br><b>Y</b> | Consolidation Code | Order No.         | <b>FTP- 249 FSL 2242 FWL</b><br><b>NSL-7944 LTP- 202 FNL 2228 FWL</b> |               |                  |               |                |        |

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: **3/9/20**  
 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 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: **DECEMBER 4, 2018**  
 Signature and Seal: *[Signature]*  
 Certificate Number: **15079**

Professional Land Surveyor

WO# 181204WL-C-XY (Rev. C) (KA)

RWP 4-28-20

**RECEIVED**

MAR 10 2020

Intent ☐ As Drilled ☒**EMNRD-OCDARTESIA**

|                                |                                             |                    |
|--------------------------------|---------------------------------------------|--------------------|
| API #<br>30-015-46400          |                                             |                    |
| Operator Name:<br>OXY USA INC. | Property Name:<br>OXBOW CC 17-8 FEDERAL COM | Well Number<br>37H |

Kick Off Point (KOP)

|                      |               |                 |              |     |                         |               |              |               |                |
|----------------------|---------------|-----------------|--------------|-----|-------------------------|---------------|--------------|---------------|----------------|
| UL<br>N              | Section<br>17 | Township<br>24S | Range<br>29E | Lot | Feet<br>264             | From N/S<br>S | Feet<br>2021 | From E/W<br>W | County<br>EDDY |
| Latitude<br>32.20960 |               |                 |              |     | Longitude<br>-104.00858 |               |              | NAD<br>NAD83  |                |

First Take Point (FTP)

|                      |               |                 |              |     |                         |               |              |               |                |
|----------------------|---------------|-----------------|--------------|-----|-------------------------|---------------|--------------|---------------|----------------|
| UL<br>N              | Section<br>17 | Township<br>24S | Range<br>29E | Lot | Feet<br>249             | From N/S<br>S | Feet<br>2242 | From E/W<br>W | County<br>EDDY |
| Latitude<br>32.21101 |               |                 |              |     | Longitude<br>-104.00786 |               |              | NAD<br>NAD83  |                |

Last Take Point (LTP)

|                      |              |                 |              |     |                         |               |              |               |                |
|----------------------|--------------|-----------------|--------------|-----|-------------------------|---------------|--------------|---------------|----------------|
| UL<br>C              | Section<br>8 | Township<br>24S | Range<br>29E | Lot | Feet<br>202             | From N/S<br>N | Feet<br>2228 | From E/W<br>W | County<br>EDDY |
| Latitude<br>32.23897 |              |                 |              |     | Longitude<br>-104.00780 |               |              | 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)

# Schlumberger

RECEIVED

MAR 10 2020

EMNRD-UCDARTESIA

January 30, 2020

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

Re:

S17, T24S, R29E Eddy, NM  
N 32.2110329 W -104.0094002

CLIENT: Oxy USA Incorporated  
WELL: Oxbow CC 17-8 Fed Com 37H  
FIELD: Purple Sage Wolfcamp

RIG: H&P 556  
COUNTY: Eddy  
API NO: 30-015-46400  
JOB NO: 19MLH0379

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> |
|-----------------------------------------|-----------------------------------------------|--------------------------|----------------------------------------|-----------------------|
| Cody Jacks<br>FE                        | Oxbow CC 17-8 Fed<br>Com 37H<br>Original Hole | 563.00 Ft<br>20688.00 Ft | January 2, 2020 to<br>January 18, 2020 | Extreme               |

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:  
S33, T23S, R28E Eddy, NM  
N 32.260972 W -104.0973453

I, Cody Jacks certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of January 02, 2020 through January 18, 2020, conduct or supervise the taking of the Extreme surveys from a depth of 563.00 feet to a depth of 20688.00 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 Oxbow CC 17-8 Fed Com 37H Well (Original Hole) API No. 30-015-46400 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  
Cody Jacks  
FE

*Cody Jacks*

Subscribed and Sworn to before me this 30 day of January (month) 2020 (yr)

My Commission expires:

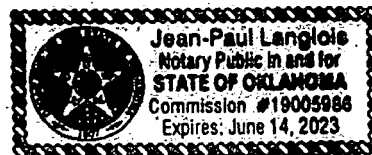
6/14/23

Notary Public

*Jean-Paul Langlois*

(signature)

(County State)



Schlumberger

OXY

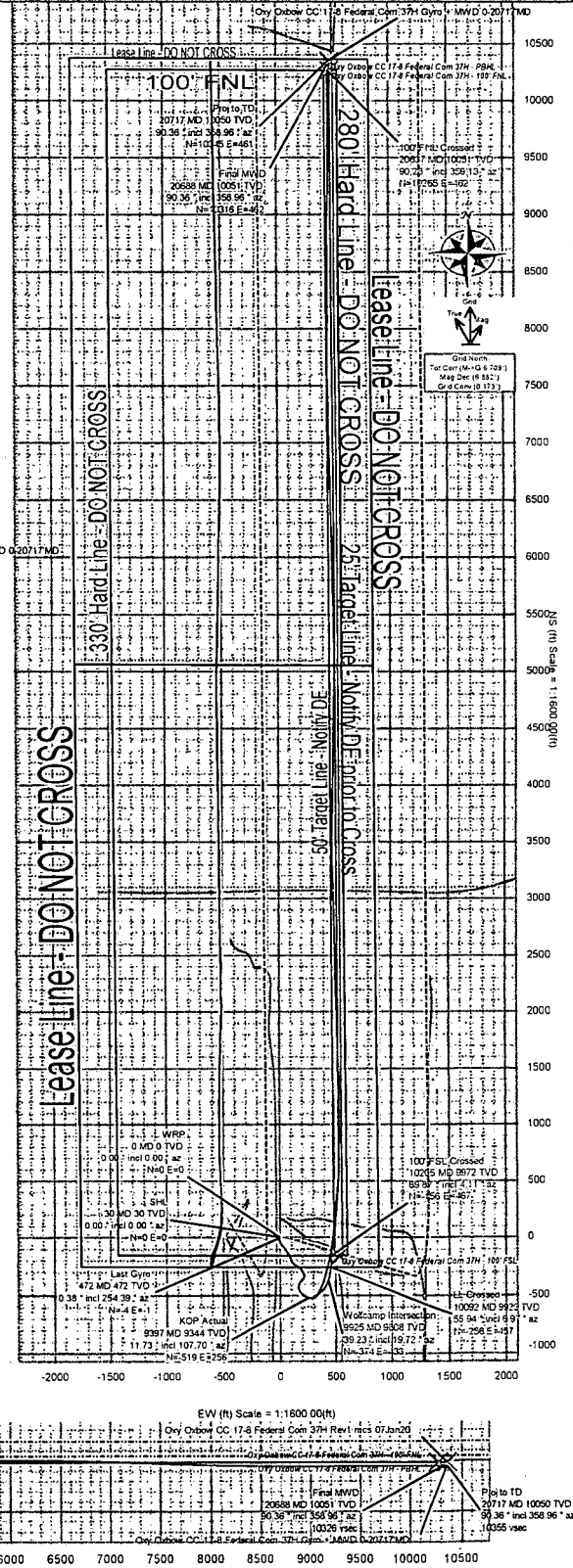
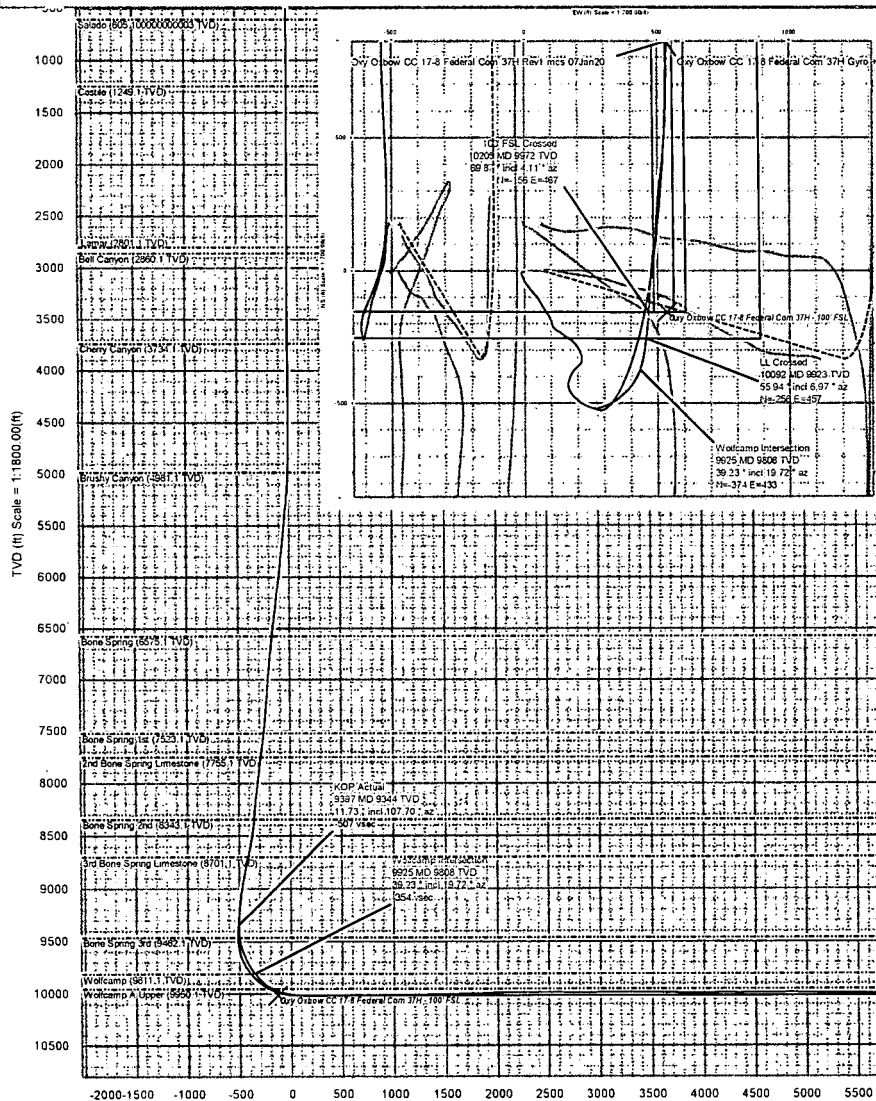


| Borehole:         | Well:                             | Field:                  | Structure:                        |
|-------------------|-----------------------------------|-------------------------|-----------------------------------|
| Original Borehole | Oxy Oxbow CC 17-8 Federal Com 37H | NM Eddy County (NAD 83) | Oxy Oxbow CC 17-8 Federal Com 37H |

| Gravity & Magnetic Parameters |        |      |         | Surface Location |                            |      |               | Miscellaneous                                                |              |             |            |
|-------------------------------|--------|------|---------|------------------|----------------------------|------|---------------|--------------------------------------------------------------|--------------|-------------|------------|
| Model:                        | IFR 1  | Dip: | 59.917° | Date:            | 31-Dec-2019                | Lat: | N 32 12 39.72 | Northing:                                                    | 440658.81RUS | Grid Conv:  | 0.1727°    |
| MagDec:                       | 6.882° | FS:  | 47841nT | Gravity FS:      | 998.467mgn (8.80665 Based) | Lon: | W 104 0 33.84 | Easting:                                                     | 641522.47RUS | Scale Fact: | 0.99992059 |
|                               |        |      |         |                  |                            |      |               | Plan: Oxy Oxbow CC 17-8 Federal Com 37H Gyro + MWD 0.20717MD |              |             |            |

## Critical Points

| Critical Point        | MD       | INCL  | AZIM   | TVD      | VSEC     | N(+)/S(-) | E(+)/W(-) | DLS   |
|-----------------------|----------|-------|--------|----------|----------|-----------|-----------|-------|
| WRP                   | 0.00     | 0.00  | 0.00   | 0.00     | 0.00     | 0.00      | 0.00      |       |
| SHL                   | 30.00    | 0.00  | 0.00   | 30.00    | 0.00     | 0.00      | 0.00      | 0.00  |
| Last Gyro             | 472.10   | 0.38  | 254.39 | 472.07   | -4.51    | -4.48     | -0.78     | 0.78  |
| KOP Actual            | 9397.00  | 11.73 | 107.70 | 9344.05  | -506.86  | -519.24   | 255.69    | 1.20  |
| Wolfcamp Intersection | 9925.23  | 39.23 | 19.72  | 9808.00  | -353.72  | -374.15   | 433.23    | 10.53 |
| LL Crossed            | 10092.00 | 55.94 | 6.97   | 9922.62  | -235.05  | -256.47   | 457.25    | 15.11 |
| 100' FSL Crossed      | 10204.50 | 69.87 | 4.11   | 9972.30  | -134.57  | -156.34   | 466.97    | 9.44  |
| 100' FNL Crossed      | 20637.00 | 90.28 | 359.13 | 10050.93 | 10275.19 | 10264.79  | 462.40    | 0.91  |
| Final MWD             | 20688.00 | 90.36 | 358.96 | 10050.66 | 10326.09 | 10315.78  | 461.53    | 0.32  |
| Proj to TD            | 20717.00 | 90.36 | 358.96 | 10050.48 | 10355.03 | 10344.78  | 461.01    | 0.00  |



Vertical Section (ft) Azim = 2.65° Scale = 1:1800.00(ft) Origin = 0N/-S, 0E/-W

# Oxy Oxbow CC 17-8 Federal Com 37H Gyro + MWD 0-20717' MD Survey

## Geodetic Report

(Non-Def Survey)



Report Date: January 18, 2020 - 02:06 PM  
 Client: OXY  
 Field: NM Eddy County (NAD 83)  
 Structure / Slot: Oxy Oxbow CC 17-8 Federal Com 37H / 37H  
 Well: Oxy Oxbow CC 17-8 Federal Com 37H  
 Borehole: Original Borehole  
 UWI / API#: Unknown / 30-015-46400  
 Survey Name: Oxy Oxbow CC 17-8 Federal Com 37H Gyro + MWD 0-20717 MD  
 Survey Date: December 20, 2019  
 Tort / AHD / DDI / ERD Ratio: 272.001' / 11650.379 ft / 6.815' / 1.158  
 Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet  
 Location Lat / Long: N 32° 12' 39.71850", W 104° 0' 33.84063"  
 Location Grid N/E Y/X: N 440658.810 NUS, E 641522.470 NUS  
 CRS Grid Convergence Angle: 0.1727°  
 Grid Scale Factor: 0.99992059  
 Version / Patch: 2.10.782.0

Survey / DLS Computation: Minimum Curvature / Lubinski  
 Vertical Section Azimuth: 2.551° (Grid North)  
 Vertical Section Origin: 0.000 ft, 0.000 ft  
 TVD Reference Datum: RKB = 30ft  
 TVD Reference Elevation: 2966.100 ft above MSL  
 Seabed / Ground Elevation: 2936.100 ft above MSL  
 Magnetic Declination: 6.882°  
 Total Gravity Field Strength: 998.4674mgn (9.80665 Based)  
 Gravity Model: GARM  
 Total Magnetic Field Strength: 47841.000 nT  
 Magnetic Dip Angle: 59.917°  
 Declination Date: December 31, 2019  
 Magnetic Declination Model: IFR 1  
 North Reference: Grid North  
 Grid Convergence Used: 0.1727°  
 Total Corr Mag North->Grid North: 6.7093°  
 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>(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               | 440658.81          | 641522.47         | N 32 12 39.72 W 104     | 0 33.84                  |
| SHL       | 30.00      | 0.00        | 0.00             | 30.00       | 0.00         | 0.00       | 0.00       | 0.00              | 440658.81          | 641522.47         | N 32 12 39.72 W 104     | 0 33.84                  |
|           | 117.20     | 0.54        | 210.08           | 117.20      | -0.36        | -0.36      | -0.21      | 0.62              | 440658.45          | 641522.26         | N 32 12 39.71 W 104     | 0 33.84                  |
|           | 200.00     | 0.75        | 180.40           | 199.99      | -1.25        | -1.24      | -0.41      | 0.47              | 440657.57          | 641522.06         | N 32 12 39.71 W 104     | 0 33.85                  |
|           | 285.90     | 0.94        | 185.60           | 285.88      | -2.52        | -2.50      | -0.48      | 0.24              | 440656.31          | 641521.99         | N 32 12 39.69 W 104     | 0 33.85                  |
| Last Gyro | 381.00     | 0.69        | 176.64           | 380.97      | -3.87        | -3.85      | -0.52      | 0.29              | 440654.96          | 641521.95         | N 32 12 39.68 W 104     | 0 33.85                  |
|           | 472.10     | 0.38        | 254.39           | 472.07      | -4.51        | -4.48      | -0.78      | 0.78              | 440654.33          | 641521.69         | N 32 12 39.67 W 104     | 0 33.85                  |
|           | 563.00     | 0.01        | 181.36           | 562.97      | -4.56        | -4.56      | -1.07      | 0.41              | 440654.25          | 641521.40         | N 32 12 39.67 W 104     | 0 33.85                  |
|           | 653.00     | 0.02        | 280.04           | 652.97      | -4.61        | -4.57      | -1.09      | 0.03              | 440654.24          | 641521.38         | N 32 12 39.67 W 104     | 0 33.85                  |
|           | 745.00     | 0.04        | 26.43            | 744.97      | -4.58        | -4.54      | -1.09      | 0.05              | 440654.27          | 641521.38         | N 32 12 39.67 W 104     | 0 33.85                  |
|           | 836.00     | 0.06        | 16.78            | 835.97      | -4.51        | -4.46      | -1.06      | 0.02              | 440654.35          | 641521.41         | N 32 12 39.67 W 104     | 0 33.85                  |
|           | 928.00     | 0.04        | 140.52           | 927.97      | -4.49        | -4.44      | -1.02      | 0.10              | 440654.37          | 641521.45         | N 32 12 39.67 W 104     | 0 33.85                  |
|           | 1019.00    | 0.03        | 86.22            | 1018.97     | -4.51        | -4.47      | -0.98      | 0.04              | 440654.34          | 641521.49         | N 32 12 39.67 W 104     | 0 33.85                  |
|           | 1109.00    | 0.02        | 88.15            | 1108.97     | -4.50        | -4.46      | -0.94      | 0.01              | 440654.35          | 641521.53         | N 32 12 39.67 W 104     | 0 33.85                  |
|           | 1199.00    | 0.07        | 5.93             | 1198.97     | -4.45        | -4.41      | -0.92      | 0.08              | 440654.40          | 641521.55         | N 32 12 39.67 W 104     | 0 33.85                  |
|           | 1290.00    | 0.22        | 319.96           | 1289.97     | -4.26        | -4.22      | -1.03      | 0.20              | 440654.59          | 641521.44         | N 32 12 39.68 W 104     | 0 33.85                  |
|           | 1380.00    | 0.19        | 284.74           | 1379.97     | -4.10        | -4.05      | -1.28      | 0.14              | 440654.76          | 641521.19         | N 32 12 39.68 W 104     | 0 33.86                  |
|           | 1471.00    | 0.50        | 273.58           | 1470.97     | -4.07        | -3.99      | -1.82      | 0.35              | 440654.82          | 641520.85         | N 32 12 39.68 W 104     | 0 33.86                  |
|           | 1562.00    | 0.78        | 266.43           | 1561.96     | -4.13        | -4.00      | -2.84      | 0.32              | 440654.81          | 641519.93         | N 32 12 39.68 W 104     | 0 33.87                  |
|           | 1653.00    | 0.68        | 261.06           | 1652.95     | -4.30        | -4.12      | -3.99      | 0.13              | 440654.69          | 641518.48         | N 32 12 39.68 W 104     | 0 33.89                  |
|           | 1748.00    | 0.60        | 270.59           | 1747.95     | -4.43        | -4.20      | -5.04      | 0.14              | 440654.61          | 641517.43         | N 32 12 39.68 W 104     | 0 33.90                  |
|           | 1843.00    | 0.87        | 274.60           | 1842.94     | -4.43        | -4.14      | -6.26      | 0.29              | 440654.67          | 641516.21         | N 32 12 39.68 W 104     | 0 33.91                  |
|           | 1937.00    | 1.07        | 262.23           | 1936.93     | -4.56        | -4.20      | -7.84      | 0.31              | 440654.61          | 641514.63         | N 32 12 39.68 W 104     | 0 33.93                  |
|           | 2032.00    | 1.06        | 282.41           | 2031.91     | -4.57        | -4.13      | -9.58      | 0.39              | 440654.68          | 641512.89         | N 32 12 39.68 W 104     | 0 33.95                  |
|           | 2126.00    | 0.24        | 123.35           | 2125.91     | -4.53        | -4.06      | -10.26     | 1.37              | 440654.75          | 641512.21         | N 32 12 39.68 W 104     | 0 33.96                  |
|           | 2221.00    | 0.12        | 189.77           | 2220.91     | -4.73        | -4.26      | -10.11     | 0.23              | 440654.55          | 641512.36         | N 32 12 39.68 W 104     | 0 33.96                  |
|           | 2316.00    | 0.07        | 106.17           | 2315.91     | -4.84        | -4.38      | -10.08     | 0.14              | 440654.43          | 641512.39         | N 32 12 39.68 W 104     | 0 33.96                  |
|           | 2410.00    | 0.24        | 204.65           | 2409.91     | -5.03        | -4.57      | -10.10     | 0.28              | 440654.24          | 641512.37         | N 32 12 39.67 W 104     | 0 33.96                  |
|           | 2504.00    | 0.18        | 214.63           | 2503.91     | -5.34        | -4.87      | -10.27     | 0.07              | 440653.94          | 641512.20         | N 32 12 39.67 W 104     | 0 33.96                  |
|           | 2599.00    | 0.14        | 169.20           | 2598.91     | -5.58        | -5.11      | -10.33     | 0.14              | 440653.70          | 641512.14         | N 32 12 39.67 W 104     | 0 33.96                  |
|           | 2693.00    | 0.41        | 163.85           | 2692.90     | -6.01        | -5.55      | -10.22     | 0.29              | 440653.27          | 641512.25         | N 32 12 39.66 W 104     | 0 33.96                  |
|           | 2788.00    | 0.49        | 209.74           | 2787.90     | -6.70        | -6.22      | -10.32     | 0.38              | 440652.59          | 641512.15         | N 32 12 39.66 W 104     | 0 33.96                  |
|           | 2882.00    | 0.19        | 279.19           | 2881.90     | -7.04        | -6.55      | -10.68     | 0.49              | 440652.26          | 641511.79         | N 32 12 39.65 W 104     | 0 33.97                  |
|           | 2977.00    | 0.05        | 180.91           | 2976.90     | -7.06        | -6.56      | -10.83     | 0.21              | 440652.25          | 641511.64         | N 32 12 39.65 W 104     | 0 33.97                  |
|           | 3072.00    | 0.09        | 178.47           | 3071.90     | -7.17        | -6.68      | -10.83     | 0.04              | 440652.13          | 641511.64         | N 32 12 39.65 W 104     | 0 33.97                  |
|           | 3166.00    | 0.05        | 168.09           | 3165.90     | -7.29        | -6.79      | -10.82     | 0.04              | 440652.02          | 641511.65         | N 32 12 39.65 W 104     | 0 33.97                  |
|           | 3261.00    | 0.07        | 235.18           | 3260.90     | -7.36        | -6.87      | -10.86     | 0.07              | 440651.94          | 641511.61         | N 32 12 39.65 W 104     | 0 33.97                  |
|           | 3355.00    | 0.12        | 274.90           | 3354.90     | -7.39        | -6.89      | -11.01     | 0.08              | 440651.92          | 641511.47         | N 32 12 39.65 W 104     | 0 33.97                  |
|           | 3450.00    | 0.21        | 222.82           | 3449.90     | -7.52        | -7.01      | -11.22     | 0.17              | 440651.80          | 641511.25         | N 32 12 39.65 W 104     | 0 33.97                  |
|           | 3545.00    | 0.10        | 240.01           | 3544.90     | -7.70        | -7.18      | -11.41     | 0.12              | 440651.63          | 641511.06         | N 32 12 39.65 W 104     | 0 33.97                  |
|           | 3639.00    | 0.14        | 335.08           | 3638.90     | -7.64        | -7.12      | -11.53     | 0.19              | 440651.69          | 641510.94         | N 32 12 39.65 W 104     | 0 33.98                  |
|           | 3734.00    | 0.29        | 326.37           | 3733.90     | -7.35        | -6.81      | -11.71     | 0.16              | 440652.00          | 641510.76         | N 32 12 39.65 W 104     | 0 33.98                  |
|           | 3829.00    | 0.18        | 14.41            | 3828.90     | -7.01        | -6.47      | -11.81     | 0.23              | 440652.34          | 641510.66         | N 32 12 39.65 W 104     | 0 33.98                  |
|           | 3923.00    | 0.17        | 31.18            | 3922.90     | -6.74        | -6.21      | -11.70     | 0.06              | 440652.61          | 641510.77         | N 32 12 39.66 W 104     | 0 33.98                  |
|           | 4018.00    | 0.09        | 336.53           | 4017.90     | -6.55        | -6.02      | -11.66     | 0.15              | 440652.79          | 641510.81         | N 32 12 39.66 W 104     | 0 33.98                  |
|           | 4112.00    | 0.04        | 277.23           | 4111.90     | -6.48        | -5.94      | -11.72     | 0.08              | 440652.87          | 641510.75         | N 32 12 39.66 W 104     | 0 33.98                  |
|           | 4207.00    | 0.09        | 102.75           | 4206.90     | -6.49        | -5.96      | -11.68     | 0.14              | 440652.85          | 641510.79         | N 32 12 39.66 W 104     | 0 33.98                  |
|           | 4301.00    | 0.06        | 76.47            | 4300.90     | -6.49        | -5.96      | -11.56     | 0.05              | 440652.85          | 641510.91         | N 32 12 39.66 W 104     | 0 33.98                  |
|           | 4396.00    | 0.15        | 274.25           | 4395.90     | -6.47        | -5.94      | -11.64     | 0.22              | 440652.87          | 641510.83         | N 32 12 39.66 W 104     | 0 33.98                  |
|           | 4490.00    | 0.16        | 243.71           | 4489.90     | -6.53        | -5.99      | -11.88     | 0.09              | 440652.82          | 641510.59         | N 32 12 39.66 W 104     | 0 33.98                  |
|           | 4585.00    | 0.08        | 277.56           | 4584.90     | -6.59        | -6.04      | -12.06     | 0.11              | 440652.77          | 641510.59         | N 32 12 39.66 W 104     | 0 33.98                  |
|           | 4680.00    | 0.02        | 351.79           | 4679.90     | -6.57        | -6.01      | -12.13     | 0.08              | 440652.77          | 641510.41         | N 32 12 39.66 W 104     | 0 33.98                  |
|           | 4774.00    | 0.10        | 28.76            | 4773.90     | -6.48        | -5.93      | -12.09     | 0.09              | 440652.80          | 641510.34         | N 32 12 39.66 W 104     | 0 33.98                  |
|           | 4869.00    | 0.25        | 175.64           | 4868.90     | -6.61        | -6.06      | -12.04     | 0.36              | 440652.75          | 641510.43         | N 32 12 39.66 W 104     | 0 33.98                  |
|           | 4964.00    | 1.94        | 178.22           | 4963.87     | -8.42        | -7.87      | -11.97     | 1.78              | 440650.94          | 641510.50         | N 32 12 39.64 W 104     | 0 33.98                  |
|           | 5058.00    | 3.56        | 171.46           | 5057.76     | -12.87       | -12.35     | -11.49     | 1.75              | 440646.46          | 641510.98         | N 32 12 39.60 W 104     | 0 33.97                  |
|           | 5153.00    | 4.96        | 159.44           | 5152.50     | -19.54       | -19.11     | -9.61      | 1.74              | 440639.70          | 641512.86         | N 32 12 39.53 W 104     | 0 33.95                  |
|           | 5247.00    | 6.37        | 155.80           | 5246.04     | -27.93       | -27.68     | -6.04      | 1.55              | 440631.14          | 641516.43         | N 32 12 39.44 W 104     | 0 33.91                  |
|           | 5342.00    | 6.23        | 151.13           | 5340.47     | -37.02       | -37.00     | -1.39      | 0.56              | 440621.82          | 641521.08         | N 32 12 39.35 W 104     | 0 33.86                  |
|           | 5436.00    | 6.31        | 147.97           | 5433.90     | -45.62       | -45.84     | 3.81       | 0.38              | 440612.97          | 641526.28         | N 32 12 39.26 W 104     | 0 33.80                  |
|           | 5531.00    | 7.18        | 144.50           | 5528.25     | -54.58       | -55.10     | 10.02      | 1.01              | 440603.71          | 641532.49         | N 32 12 39.17 W 104     | 0 33.73                  |
|           | 5625.00    | 6.99        | 142.90           | 5621.53     | -63.60       | -64.45     | 16.89      | 0.29              | 440594.37          | 641539.36         | N 32 12 39.08 W 104     | 0 33.65                  |
|           | 5720.00    | 7.51        | 141.48           | 5715.77     | -72.71       | -73.91     | 24.24      | 0.58              | 440584.90          | 641546.71         | N 32 12 38.99 W 104     | 0 33.56                  |
|           | 5814.00    | 8.56        | 138.69           | 5808.85     | -82.37       | -83.98     | 32.68      | 1.19              | 440574.84          | 641555.15         | N 32 12 38.89 W 104     | 0 33.46                  |
|           | 5909.00    | 8.38        | 138.35           | 5902.81     | -92.42       | -94.46     | 41.95      | 0.20              | 440564.36          | 641564.42         | N 32 12 38.78 W 104     | 0 33.36                  |
|           | 6003.00    | 8.69        | 144.39           | 5995.77     | -102.90      | -105.35    | 50.64      | 1.01              | 440553.47          | 641573.10         | N 32 12 38.67 W 104     | 0 33.25                  |
|           | 6098.00    | 8.90        | 151.01           | 6089.66     | -114.79      | -117.61    | 58.38      | 1.09              | 440541.21          | 641580.84         | N 32 12 38.55 W 104     | 0 33.17                  |
|           | 6193.00    | 8.92        | 149.72           | 6183.51     | -127.23      | -130.40    | 65.65      | 0.21              | 440528.42          | 641588.12         | N 32 12 38.43 W 104     | 0 33.08                  |
|           | 6287.00    | 8.31        | 146.19           | 6276.45     | -138.81      | -142.34    | 73.11      | 0.86              | 440516.48          | 641595.57         | N 32 12 38.31 W 104     | 0 32.99                  |
|           | 6382.00    | 8.25        | 146.57           | 6370.46     | -149.84      | -153.73    | 80.68      | 0.09              | 440505.09          | 641603.15         | N 32 12 38.19 W 104     | 0 32.91                  |
|           | 6476.00    | 7.45        | 147.30           | 6463.58     | -160.26      | -164.49    | 87.69      | 0.86              | 440494.34          | 641610.15         | N 32 12 38.09 W 104     | 0 32.83                  |
|           | 6571.00    | 7.08        | 152.74           | 6557.81     | -170.35      | -174.88    | 93.70      | 0.82              | 440483.95          | 641616.16         | N 32 12 37.99 W 104     | 0 32.76                  |
|           | 6666.00    | 6.51        | 157.97           | 6652.15     | -180.32      | -185.07    | 98.40      | 0.89              | 440473.75          | 641620.86         | N 32 12 37.88 W 104     | 0 32.70                  |
|           | 6760.00    | 6.52        | 164.30           | 6745.54     | -190.23      | -195.15    | 101.85     | 0.76              | 440463.68          | 641624.31         | N 32 12 37.78 W 104     | 0 32.66                  |
|           | 6855.00    | 5.39        | 164.99           | 6840.03     | -199.60      | -          |            |                   |                    |                   |                         |                          |

| 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 ° ' ") |
|--------------------------|------------|-------------|------------------|-------------|--------------|------------|------------|------------------|--------------------|-------------------|-------------------------|--------------------------|
|                          | 7327.00    | 9.07        | 124.47           | 7307.62     | -238.00      | -245.25    | 151.23     | 0.40             | 440413.58          | 641673.69         | N 32 12 37.29 W 104     | 0 32.09                  |
|                          | 7421.00    | 9.49        | 124.96           | 7400.39     | -246.05      | -253.89    | 163.69     | 0.45             | 440404.94          | 641686.15         | N 32 12 37.20 W 104     | 0 31.94                  |
|                          | 7516.00    | 9.87        | 128.54           | 7494.03     | -255.00      | -263.45    | 176.48     | 0.75             | 440395.38          | 641698.94         | N 32 12 37.11 W 104     | 0 31.80                  |
|                          | 7610.00    | 9.79        | 138.72           | 7586.66     | -265.48      | -274.48    | 188.05     | 1.85             | 440384.36          | 641710.51         | N 32 12 37.00 W 104     | 0 31.66                  |
|                          | 7705.00    | 9.42        | 145.34           | 7680.33     | -277.48      | -286.94    | 197.80     | 1.23             | 440371.89          | 641720.26         | N 32 12 36.87 W 104     | 0 31.55                  |
|                          | 7800.00    | 8.97        | 151.86           | 7774.11     | -290.03      | -299.87    | 205.72     | 1.19             | 440358.97          | 641728.17         | N 32 12 36.75 W 104     | 0 31.46                  |
|                          | 7894.00    | 8.34        | 158.85           | 7867.05     | -302.56      | -312.69    | 211.64     | 1.30             | 440346.15          | 641734.09         | N 32 12 36.62 W 104     | 0 31.39                  |
|                          | 7989.00    | 6.66        | 168.66           | 7961.23     | -314.21      | -324.51    | 215.20     | 2.22             | 440334.32          | 641737.66         | N 32 12 36.50 W 104     | 0 31.35                  |
|                          | 8084.00    | 6.73        | 182.71           | 8055.59     | -325.13      | -335.48    | 216.02     | 1.72             | 440323.36          | 641738.48         | N 32 12 36.39 W 104     | 0 31.34                  |
|                          | 8178.00    | 7.55        | 203.33           | 8148.88     | -336.41      | -346.65    | 213.32     | 2.84             | 440312.19          | 641735.77         | N 32 12 36.28 W 104     | 0 31.37                  |
|                          | 8273.00    | 7.43        | 229.28           | 8243.09     | -346.47      | -356.39    | 206.19     | 3.53             | 440302.45          | 641728.64         | N 32 12 36.19 W 104     | 0 31.45                  |
|                          | 8280.00    | 7.37        | 226.16           | 8250.04     | -347.11      | -357.00    | 205.52     | 5.80             | 440301.84          | 641727.98         | N 32 12 36.18 W 104     | 0 31.46                  |
|                          | 8374.00    | 7.14        | 230.61           | 8343.28     | -355.40      | -364.88    | 196.66     | 0.65             | 440293.96          | 641719.11         | N 32 12 36.10 W 104     | 0 31.56                  |
|                          | 8469.00    | 9.12        | 221.61           | 8437.33     | -365.20      | -374.26    | 187.10     | 2.47             | 440284.58          | 641709.55         | N 32 12 36.01 W 104     | 0 31.68                  |
|                          | 8564.00    | 10.42       | 209.13           | 8530.96     | -378.75      | -387.39    | 177.91     | 2.61             | 440271.45          | 641700.37         | N 32 12 35.88 W 104     | 0 31.78                  |
|                          | 8658.00    | 12.14       | 202.55           | 8623.14     | -395.66      | -403.95    | 169.98     | 2.28             | 440254.89          | 641692.44         | N 32 12 35.72 W 104     | 0 31.88                  |
|                          | 8753.00    | 12.82       | 187.55           | 8715.92     | -415.56      | -423.63    | 164.77     | 3.48             | 440235.22          | 641687.22         | N 32 12 35.52 W 104     | 0 31.94                  |
|                          | 8848.00    | 12.57       | 165.15           | 8808.66     | -435.93      | -444.08    | 166.03     | 5.16             | 440214.76          | 641688.49         | N 32 12 35.32 W 104     | 0 31.92                  |
|                          | 8942.00    | 12.27       | 145.68           | 8900.50     | -453.67      | -462.23    | 174.29     | 4.45             | 440196.62          | 641696.74         | N 32 12 35.14 W 104     | 0 31.83                  |
|                          | 9037.00    | 12.99       | 134.69           | 8993.21     | -468.89      | -478.08    | 187.57     | 2.64             | 440180.77          | 641710.03         | N 32 12 34.98 W 104     | 0 31.67                  |
|                          | 9131.00    | 13.52       | 130.73           | 9084.71     | -482.74      | -492.68    | 203.41     | 1.12             | 440166.17          | 641725.86         | N 32 12 34.84 W 104     | 0 31.49                  |
|                          | 9226.00    | 13.50       | 119.41           | 9177.10     | -494.58      | -505.37    | 221.49     | 2.78             | 440153.48          | 641743.94         | N 32 12 34.71 W 104     | 0 31.28                  |
|                          | 9277.00    | 12.73       | 112.61           | 9226.77     | -499.18      | -510.45    | 231.86     | 3.38             | 440148.40          | 641754.31         | N 32 12 34.66 W 104     | 0 31.16                  |
|                          | 9397.00    | 11.73       | 107.70           | 9344.05     | -506.86      | -519.24    | 255.69     | 1.20             | 440139.61          | 641778.14         | N 32 12 34.57 W 104     | 0 30.88                  |
|                          | 9492.00    | 19.87       | 76.25            | 9435.54     | -504.80      | -518.34    | 280.65     | 12.15            | 440140.51          | 641803.10         | N 32 12 34.58 W 104     | 0 30.59                  |
|                          | 9586.00    | 25.77       | 64.87            | 9522.18     | -490.75      | -505.85    | 314.72     | 7.81             | 440153.00          | 641837.16         | N 32 12 34.70 W 104     | 0 30.20                  |
|                          | 9681.00    | 30.85       | 52.38            | 9605.87     | -465.34      | -482.17    | 352.77     | 8.19             | 440176.68          | 641875.21         | N 32 12 34.94 W 104     | 0 29.75                  |
|                          | 9776.00    | 32.87       | 42.68            | 9686.60     | -429.83      | -448.33    | 389.56     | 5.79             | 440210.52          | 641912.00         | N 32 12 35.27 W 104     | 0 29.32                  |
|                          | 9870.00    | 36.04       | 27.70            | 9764.24     | -385.15      | -405.00    | 419.77     | 9.60             | 440253.84          | 641942.21         | N 32 12 35.70 W 104     | 0 28.97                  |
| Wolfcamp<br>Intersection | 9925.23    | 39.23       | 19.72            | 9808.00     | -353.72      | -374.15    | 432.23     | 10.53            | 440284.59          | 641955.66         | N 32 12 36.00 W 104     | 0 28.81                  |
|                          | 9965.00    | 41.82       | 14.65            | 9838.24     | -328.71      | -349.47    | 440.83     | 10.53            | 440309.36          | 641983.26         | N 32 12 36.25 W 104     | 0 28.72                  |
|                          | 10060.00   | 51.16       | 7.86             | 9903.61     | -260.69      | -281.99    | 453.93     | 11.10            | 440376.84          | 641976.37         | N 32 12 36.91 W 104     | 0 28.57                  |
| LL Crossed               | 10092.00   | 55.94       | 6.97             | 9922.62     | -235.05      | -256.47    | 457.25     | 15.11            | 440402.36          | 641979.68         | N 32 12 37.17 W 104     | 0 28.53                  |
|                          | 10155.00   | 65.37       | 5.47             | 9953.46     | -180.30      | -201.94    | 463.16     | 15.11            | 440456.89          | 641985.59         | N 32 12 37.71 W 104     | 0 28.46                  |
| 100' FSL<br>Crossed      | 10204.50   | 69.87       | 4.11             | 9972.30     | -134.57      | -156.34    | 466.97     | 9.44             | 440502.48          | 641989.40         | N 32 12 38.16 W 104     | 0 28.41                  |
|                          | 10249.00   | 73.92       | 2.95             | 9986.13     | -92.29       | -114.13    | 469.57     | 9.44             | 440544.69          | 641992.00         | N 32 12 38.58 W 104     | 0 28.38                  |
|                          | 10344.00   | 82.26       | 4.45             | 10005.72    | 0.56         | -21.46     | 475.58     | 8.91             | 440637.35          | 641998.01         | N 32 12 39.49 W 104     | 0 28.31                  |
|                          | 10439.00   | 86.30       | 5.60             | 10015.19    | 94.99        | 72.68      | 483.86     | 4.42             | 440731.49          | 642006.29         | N 32 12 40.42 W 104     | 0 28.21                  |
|                          | 10531.00   | 87.99       | 5.39             | 10019.77    | 186.76       | 164.14     | 492.66     | 1.85             | 440822.94          | 642015.09         | N 32 12 41.33 W 104     | 0 28.10                  |
|                          | 10623.00   | 91.52       | 4.33             | 10020.16    | 278.67       | 255.80     | 500.45     | 4.01             | 440914.59          | 642022.88         | N 32 12 42.23 W 104     | 0 28.01                  |
|                          | 10715.00   | 91.02       | 7.26             | 10018.12    | 370.50       | 347.29     | 509.74     | 3.23             | 441006.08          | 642032.17         | N 32 12 43.14 W 104     | 0 27.90                  |
|                          | 10807.00   | 90.47       | 5.72             | 10016.93    | 462.28       | 438.69     | 520.14     | 1.78             | 441097.47          | 642042.56         | N 32 12 44.04 W 104     | 0 27.77                  |
|                          | 10898.00   | 90.46       | 3.68             | 10016.19    | 553.22       | 529.38     | 527.59     | 2.24             | 441188.15          | 642050.02         | N 32 12 44.94 W 104     | 0 27.68                  |
|                          | 10991.00   | 90.58       | 1.43             | 10015.34    | 646.21       | 622.28     | 531.74     | 2.42             | 441281.04          | 642054.16         | N 32 12 45.86 W 104     | 0 27.63                  |
|                          | 11084.00   | 90.34       | 0.63             | 10014.60    | 739.17       | 715.26     | 533.41     | 0.90             | 441374.01          | 642055.83         | N 32 12 46.78 W 104     | 0 27.61                  |
|                          | 11179.00   | 90.40       | 0.47             | 10013.98    | 834.10       | 810.25     | 534.32     | 0.18             | 441469.00          | 642056.75         | N 32 12 47.72 W 104     | 0 27.59                  |
|                          | 11273.00   | 90.35       | 1.23             | 10013.37    | 928.05       | 904.24     | 535.71     | 0.81             | 441562.98          | 642058.14         | N 32 12 48.65 W 104     | 0 27.57                  |
|                          | 11368.00   | 90.93       | 1.15             | 10012.31    | 1023.01      | 999.21     | 537.69     | 0.62             | 441657.94          | 642060.11         | N 32 12 49.59 W 104     | 0 27.55                  |
|                          | 11463.00   | 91.14       | 359.94           | 10010.59    | 1117.93      | 1094.19    | 538.59     | 1.29             | 441752.91          | 642061.02         | N 32 12 50.53 W 104     | 0 27.53                  |
|                          | 11557.00   | 90.91       | 358.86           | 10008.91    | 1211.76      | 1188.17    | 537.61     | 1.17             | 441846.88          | 642060.03         | N 32 12 51.46 W 104     | 0 27.54                  |
|                          | 11652.00   | 91.28       | 358.65           | 10007.09    | 1306.53      | 1283.13    | 535.54     | 0.45             | 441941.84          | 642057.97         | N 32 12 52.40 W 104     | 0 27.56                  |
|                          | 11746.00   | 90.30       | 358.09           | 10005.80    | 1400.25      | 1377.08    | 532.87     | 1.20             | 442035.78          | 642055.30         | N 32 12 53.33 W 104     | 0 27.59                  |
|                          | 11841.00   | 91.70       | 358.60           | 10004.14    | 1494.97      | 1472.02    | 530.13     | 1.57             | 442130.71          | 642052.55         | N 32 12 54.27 W 104     | 0 27.62                  |
|                          | 11935.00   | 91.19       | 358.48           | 10001.77    | 1588.70      | 1565.96    | 527.73     | 0.56             | 442224.65          | 642050.16         | N 32 12 55.20 W 104     | 0 27.64                  |
|                          | 12030.00   | 91.42       | 358.63           | 9999.61     | 1683.43      | 1660.91    | 525.34     | 0.29             | 442319.58          | 642047.76         | N 32 12 56.14 W 104     | 0 27.67                  |
|                          | 12125.00   | 91.69       | 358.30           | 9997.03     | 1778.14      | 1755.84    | 522.79     | 0.45             | 442414.51          | 642045.22         | N 32 12 57.08 W 104     | 0 27.69                  |
|                          | 12219.00   | 91.77       | 358.57           | 9994.19     | 1871.84      | 1849.76    | 520.23     | 0.30             | 442508.42          | 642042.65         | N 32 12 58.01 W 104     | 0 27.72                  |
|                          | 12314.00   | 91.42       | 358.75           | 9991.55     | 1966.58      | 1944.70    | 518.01     | 0.41             | 442603.35          | 642040.43         | N 32 12 58.95 W 104     | 0 27.74                  |
|                          | 12409.00   | 91.35       | 358.28           | 9989.25     | 2061.30      | 2039.64    | 515.54     | 0.50             | 442698.28          | 642037.97         | N 32 12 59.89 W 104     | 0 27.77                  |
|                          | 12509.00   | 90.51       | 358.58           | 9986.18     | 2249.76      | 2228.54    | 510.37     | 0.47             | 442887.17          | 642032.80         | N 32 13 1.75 W 104      | 0 27.82                  |
|                          | 12693.00   | 89.45       | 358.13           | 9986.22     | 2344.49      | 2323.50    | 507.64     | 1.21             | 442982.12          | 642030.07         | N 32 13 2.69 W 104      | 0 27.85                  |
|                          | 12883.00   | 89.55       | 358.73           | 9987.87     | 2533.97      | 2513.42    | 502.43     | 0.32             | 443172.03          | 642024.86         | N 32 13 4.57 W 104      | 0 27.90                  |
|                          | 12978.00   | 89.38       | 359.04           | 9988.76     | 2628.76      | 2608.40    | 500.59     | 0.37             | 443267.00          | 642023.02         | N 32 13 5.51 W 104      | 0 27.92                  |
|                          | 13073.00   | 89.57       | 358.79           | 9989.63     | 2723.55      | 2703.38    | 498.79     | 0.33             | 443361.97          | 642021.22         | N 32 13 6.45 W 104      | 0 27.94                  |
|                          | 13167.00   | 89.90       | 358.64           | 9990.07     | 2817.33      | 2797.35    | 496.68     | 0.39             | 443455.93          | 642019.11         | N 32 13 7.38 W 104      | 0 27.96                  |
|                          | 13262.00   | 90.57       | 358.70           | 9989.68     | 2912.10      | 2892.33    | 494.47     | 0.71             | 443550.90          | 642016.90         | N 32 13 8.32 W 104      | 0 27.98                  |
|                          | 13357.00   | 90.93       | 358.38           | 9988.43     | 3006.85      | 2987.29    | 492.05     | 0.51             | 443645.85          | 642014.48         | N 32 13 9.26 W 104      | 0 28.01                  |
|                          | 13451.00   | 90.39       | 358.39           | 9987.35     | 3100.58      | 3081.24    | 489.40     | 0.57             | 443739.80          | 642011.83         | N 32 13 10.19 W 104     | 0 28.04                  |
|                          | 13546.00   | 90.72       | 358.23           | 9986.43     | 3195.30      | 3176.20    | 486.60     | 0.39             | 443834.75          | 642009.03         | N 32 13 11.13 W 104     | 0 28.07                  |
|                          | 13641.00   | 89.89       | 357.39           | 9985.92     | 3289.96      | 3271.12    | 482.97     | 1.24             | 443929.67          | 642005.40         | N 32 13 12.07 W 104     | 0 28.10                  |
|                          | 13736.00   | 89.54       | 358.72           | 9986.40     | 3384.65      | 3366.07    | 479.75     | 1.45             | 444024.60          | 642002.18         | N 32 13 13.01 W 104     | 0 28.14                  |
|                          | 13830.00   | 89.22       | 359.97           | 9987.41     | 3478.49      | 3460.05    | 478.67     | 1.37             | 444118.58          | 642001.11         | N 32 13 13.94 W 104     | 0 28.15                  |
|                          | 13925.00   | 89.20       | 0.64             | 9988.72     | 3573.40      | 3555.04    | 479.18     | 0.71             | 444213.56          | 642001.61         | N 32 13 14.88 W 104     | 0 28.14                  |
|                          | 14020.00   | 88.91       | 0.65             | 9990.29     | 3668.33      | 3650.02    | 480.25     | 0.31             | 444308.54          | 642002.68         | N 32 13 15.82 W 104     | 0 28.12                  |
|                          | 14115.00   | 88.62       | 1.18             | 9992.34     | 3763.26      | 3744.99    | 481.77     | 0.64             | 444403.49          | 642004.20         | N 32 13 16.76 W 104     | 0 28.10                  |
|                          | 14209.00   | 90.84       | 1.22             | 9992.78     | 3857.23      | 3838.96    | 483.73     | 2.36             | 444497.46          | 642006.17         | N 32 13 17.69 W 104     | 0 28.08                  |
|                          | 14304.00   | 89.57       | 1.72             | 9992.44     | 3952.20      | 3933.93    | 486.17     | 1.44             | 444592.42          | 642008.60         | N 32 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 ° ' ") |
|---------------------|------------|-------------|------------------|-------------|--------------|------------|------------|------------------|--------------------|-------------------|-------------------------|--------------------------|
|                     | 17994.00   | 88.04       | 0.01             | 10030.38    | 7635.05      | 7622.40    | 449.80     | 0.94             | 448280.59          | 641972.23         | N 32 13 55.13 W 104     | 0 28.34                  |
|                     | 18184.00   | 88.19       | 0.89             | 10036.63    | 7824.79      | 7812.30    | 450.96     | 0.37             | 448470.47          | 641973.39         | N 32 13 57.01 W 104     | 0 28.32                  |
|                     | 18373.00   | 88.90       | 1.11             | 10041.43    | 8013.64      | 8001.21    | 453.92     | 0.44             | 448659.37          | 641976.36         | N 32 13 58.88 W 104     | 0 28.28                  |
|                     | 18468.00   | 87.92       | 1.84             | 10044.06    | 8108.58      | 8096.14    | 456.37     | 1.29             | 448754.29          | 641978.80         | N 32 13 59.82 W 104     | 0 28.24                  |
|                     | 18657.00   | 89.42       | 358.41           | 10048.45    | 8297.32      | 8285.06    | 456.78     | 1.98             | 448943.19          | 641979.21         | N 32 14 1.69 W 104      | 0 28.23                  |
|                     | 18846.00   | 89.05       | 359.74           | 10050.97    | 8485.93      | 8474.01    | 453.73     | 0.73             | 449132.13          | 641976.16         | N 32 14 3.56 W 104      | 0 28.26                  |
|                     | 19035.00   | 89.20       | 359.78           | 10053.86    | 8674.66      | 8662.99    | 452.94     | 0.08             | 449321.09          | 641975.37         | N 32 14 5.43 W 104      | 0 28.26                  |
|                     | 19224.00   | 89.51       | 359.97           | 10055.99    | 8863.43      | 8851.97    | 452.52     | 0.19             | 449510.06          | 641974.96         | N 32 14 7.30 W 104      | 0 28.26                  |
|                     | 19413.00   | 90.34       | 2.28             | 10056.23    | 9052.35      | 9040.92    | 456.23     | 1.30             | 449699.00          | 641978.67         | N 32 14 9.17 W 104      | 0 28.21                  |
|                     | 19603.00   | 90.17       | 0.96             | 10055.39    | 9242.31      | 9230.84    | 461.61     | 0.70             | 449888.90          | 641984.04         | N 32 14 11.04 W 104     | 0 28.14                  |
|                     | 19792.00   | 90.32       | 0.25             | 10054.58    | 9431.19      | 9419.83    | 463.60     | 0.38             | 450077.87          | 641986.03         | N 32 14 12.91 W 104     | 0 28.11                  |
|                     | 19987.00   | 90.04       | 359.75           | 10054.28    | 9526.09      | 9514.83    | 463.60     | 0.60             | 450172.86          | 641986.03         | N 32 14 13.85 W 104     | 0 28.11                  |
|                     | 20076.00   | 90.36       | 359.16           | 10053.62    | 9714.79      | 9703.81    | 461.80     | 0.36             | 450361.83          | 641984.24         | N 32 14 15.72 W 104     | 0 28.12                  |
|                     | 20265.00   | 90.04       | 0.55             | 10052.96    | 9903.56      | 9892.81    | 461.33     | 0.75             | 450550.81          | 641983.76         | N 32 14 17.60 W 104     | 0 28.12                  |
|                     | 20359.00   | 90.34       | 0.04             | 10052.65    | 9997.48      | 9986.81    | 461.81     | 0.63             | 450644.80          | 641984.24         | N 32 14 18.53 W 104     | 0 28.11                  |
|                     | 20454.00   | 90.41       | 0.80             | 10052.03    | 10092.40     | 10081.80   | 462.51     | 0.80             | 450739.79          | 641984.94         | N 32 14 19.47 W 104     | 0 28.10                  |
| 100' FNL<br>Crossed | 20637.00   | 90.28       | 359.13           | 10050.93    | 10275.19     | 10264.79   | 462.40     | 0.91             | 450922.76          | 641984.83         | N 32 14 21.28 W 104     | 0 28.10                  |
|                     | 20644.00   | 90.27       | 359.07           | 10050.90    | 10282.18     | 10271.79   | 462.29     | 0.91             | 450929.76          | 641984.72         | N 32 14 21.35 W 104     | 0 28.10                  |
| Final MWD           | 20688.00   | 90.36       | 358.96           | 10050.66    | 10326.09     | 10315.78   | 461.53     | 0.32             | 450973.75          | 641983.97         | N 32 14 21.78 W 104     | 0 28.11                  |
| Proj to TD          | 20717.00   | 90.36       | 358.96           | 10050.48    | 10355.03     | 10344.78   | 461.01     | 0.00             | 451002.74          | 641983.44         | N 32 14 22.07 W 104     | 0 28.11                  |

Survey Type: Non-Def Survey

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

| Description | Part | MD From<br>(ft) | MD To<br>(ft) | EOU Freq<br>(ft) | Hole Size Casing Diameter<br>(in) | Survey Tool Type          | Borehole / Survey                                                                 |
|-------------|------|-----------------|---------------|------------------|-----------------------------------|---------------------------|-----------------------------------------------------------------------------------|
|             | 1    | 0.000           | 30.000        | 1/98.425         | 26.400                            | GYD_GC+DROP+OH-Depth Only | Original Borehole / Oxy Oxbow<br>CC 17-8 Federal Com 37H Gyro +<br>MWD 0-20717'MD |
|             | 1    | 30.000          | 30.000        | Act Stns         | 26.400                            | GYD_GC+DROP+OH-Depth Only | Original Borehole / Oxy Oxbow<br>CC 17-8 Federal Com 37H Gyro +<br>MWD 0-20717'MD |
|             | 1    | 30.000          | 20717.000     | Act Stns         | 26.400                            | GYD_GC+DROP+OH            | Original Borehole / Oxy Oxbow<br>CC 17-8 Federal Com 37H Gyro +                   |

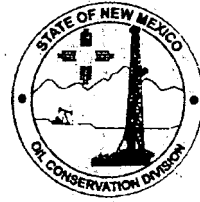
State of New Mexico  
Energy, Minerals and Natural Resources Department

Michelle Lujan Grisham  
Governor

Sarah Cottrell Propst  
Cabinet Secretary

Todd E. Leahy, JD, PhD  
Deputy Cabinet Secretary

Adrienne E. Sandoval, Director  
Oil Conservation Division



October 10, 2019

Ms. Jana Mendiola  
[janalyn\\_mendiola@oxy.com](mailto:janalyn_mendiola@oxy.com)

NON-STANDARD LOCATION

Administrative Order NSL-7944

Oxy USA, Inc. [OGRID 16696]  
Oxbow CC 17 8 Federal Com Well No. 037H  
API No. 30-015-PENDING

**Proposed Location**

|                  | <u>Footages</u>    | <u>Unit/Lot</u> | <u>Sec.</u> | <u>Twsp</u> | <u>Range</u> | <u>County</u> |
|------------------|--------------------|-----------------|-------------|-------------|--------------|---------------|
| Surface          | 255 FSL & 1763 FWL | N               | 17          | 24S         | 29E          | Eddy          |
| First Take Point | 100 FSL & 2300 FWL | N               | 17          | 24S         | 29E          | Eddy          |
| Last Take Point  | 100 FNL & 2300 FWL | C               | 8           | 24S         | 29E          | Eddy          |
| Terminus         | 20 FNL & 2300 FWL  | C               | 8           | 24S         | 29E          | Eddy          |

**Proposed Horizontal Gas Units**

| <u>Description</u> | <u>Acres</u> | <u>Pool</u>                 | <u>Pool Code</u> |
|--------------------|--------------|-----------------------------|------------------|
| W2 of Section 17   | 640          | Purple Sage; Wolfcamp (GAS) | 98220            |
| W2 of Section 8    |              |                             |                  |

Reference is made to your application received on September 18, 2019.

You have requested to complete this horizontal well as a gas well described above in the referenced pool or formation. This well is governed by special rules for the Purple Sage; Wolfcamp (Gas) Pool of and provides for 320-acre units, with wells located at least 330 feet from a unit outer boundary.

This well's completed interval is as close as 100 feet to the northern and southern edge of the horizontal spacing unit. Encroachment will impact the following tracts.

Section 20, encroachment to the NW/4

Section 5, encroachment to the SW/4

The Division understands you have given notice of this application to all operators or owners who are "affected persons," as defined in Paragraph (8) Subsection A of 19.15.2.7 NMAC, in all adjoining units towards which the proposed location encroaches.

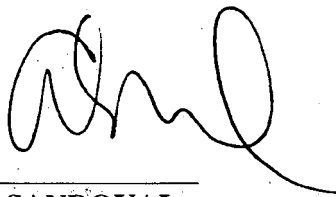
Division understands you seek this unorthodox location as an efficient spacing of your horizontal wells, thereby preventing waste within the Wolfcamp formation underlying the W2 of Section 17 and Section 8.

Your application has been filed under Subsection 6 of Paragraph of Section (C) of 19.15.16.15 NMAC, 19.15.15.13 NMAC and Paragraph (2) of Subsection A of 19.15.4.12 NMAC.

Per Subsection B of 19.15.15.13 NMAC, Division approves this unorthodox location.

The above approvals are subject to your following all other applicable Division rules.

Jurisdiction of this case is retained for the entry of further orders as Division deems necessary.



**ADRIENNE E. SANDOVAL**  
Division Director

AES/lrl

cc: Oil Conservation Division – Artesia District Office  
Bureau of Land Management – Carlsbad Field Office