

District I  
1625 N. French Dr., Hobbs, NM 88240

District II  
811 S. First St., Artesia, NM 88210

District III  
1000 Rio Brazos Rd., Aztec, NM 87410

District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals & Natural Resources

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-104  
Revised August 1, 2011

Submit one copy to appropriate District Office

☐ AMENDED REPORT

**I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT**

|                                                                                            |                                                       |                                                                         |
|--------------------------------------------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------------------------|
| <sup>1</sup> Operator name and Address<br>OXY USA INC.<br>P.O. BOX 50250 MIDLAND, TX 79710 |                                                       | <sup>2</sup> OGRID Number: 16696                                        |
|                                                                                            |                                                       | <sup>3</sup> Reason for Filing Code/ Effective Date -<br>RT- 04/21/2021 |
| <sup>4</sup> API Number<br>30-015-46320                                                    | <sup>5</sup> Pool Name<br>Ingle Wells; Bone Spring    | <sup>6</sup> Pool Code<br>33740                                         |
| <sup>7</sup> Property Code: 326149                                                         | <sup>8</sup> Property Name: Arkenstone 31 Federal Com | <sup>9</sup> Well Number: 6H                                            |

**II. <sup>10</sup> Surface Location**

| Ul or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South Line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| A             | 31      | 23S      | 31E   |         | 100           | NORTH            | 830           | EAST           | EDDY   |

<sup>11</sup> Bottom Hole Location      FTP: 362' FNL 676' FEL      LTP: 159' FSL 651' FEL

| UL or lot no.               | Section                                       | Township                                     | Range                             | Lot Idn                            | Feet from the                       | North/South line | Feet from the | East/West line | County |
|-----------------------------|-----------------------------------------------|----------------------------------------------|-----------------------------------|------------------------------------|-------------------------------------|------------------|---------------|----------------|--------|
| P                           | 6                                             | 24S                                          | 31E                               |                                    | 69                                  | SOUTH            | 652           | EAST           | EDDY   |
| <sup>12</sup> Lse Code<br>F | <sup>13</sup> Producing Method<br>Code :<br>F | <sup>14</sup> Gas Connection<br>Date:<br>TBD | <sup>15</sup> C-129 Permit Number | <sup>16</sup> C-129 Effective Date | <sup>17</sup> C-129 Expiration Date |                  |               |                |        |

**III. Oil and Gas Transporters**

| <sup>18</sup> Transporter<br>OGRID | <sup>19</sup> Transporter Name<br>and Address | <sup>20</sup> O/G/W |
|------------------------------------|-----------------------------------------------|---------------------|
| 237722                             | CENTURION PIPELINE L.P.                       | O                   |
| 151618                             | ENTERPRISE FIELD SERVICES LLC                 | G                   |

**IV. Well Completion Data**

|                                       |                                        |                                     |                                       |                                            |                       |
|---------------------------------------|----------------------------------------|-------------------------------------|---------------------------------------|--------------------------------------------|-----------------------|
| <sup>21</sup> Spud Date<br>12/30/2020 | <sup>22</sup> Ready Date<br>04/21/2021 | <sup>23</sup> TD<br>20496'M 10056'V | <sup>24</sup> PBTB<br>20463'M 10057'V | <sup>25</sup> Perforations<br>10345-20406' | <sup>26</sup> DHC, MC |
| <sup>27</sup> Hole Size               | <sup>28</sup> Casing & Tubing Size     | <sup>29</sup> Depth Set             | <sup>30</sup> Sacks Cement            |                                            |                       |
| 17-1/2"                               | 13-3/8"                                | 438'                                | 585                                   |                                            |                       |
| 12-1/4"                               | 9-5/8"                                 | 4211'                               | 1257                                  |                                            |                       |
| 8-3/4" x 8-1/2"                       | 5-1/2"                                 | 20476'                              | 3859                                  |                                            |                       |

**V. Well Test Data**

|                            |                                 |                         |                           |                             |                             |
|----------------------------|---------------------------------|-------------------------|---------------------------|-----------------------------|-----------------------------|
| <sup>31</sup> Date New Oil | <sup>32</sup> Gas Delivery Date | <sup>33</sup> Test Date | <sup>34</sup> Test Length | <sup>35</sup> Tbg. Pressure | <sup>36</sup> Csg. Pressure |
| <sup>37</sup> Choke Size   | <sup>38</sup> Oil               | <sup>39</sup> Water     | <sup>40</sup> Gas         |                             | <sup>41</sup> Test Method   |

<sup>42</sup> I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature: 

Printed name:  
JANA MENDIOLA

Title:  
REGULATORY SPECIALIST

E-mail Address:  
Janalyn\_mendiola@oxy.com

Date: 04/21/2021      Phone: 432-685-5936

OIL CONSERVATION DIVISION

Approved by: KURT SIMMONS

Title: NMOC, SANTA FE

Approval Date: 07/15/2021

RT C-104 EXPIRES 07/21/2021

Intent ☐ As Drilled ☐

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

## Kick Off Point (KOP)

|          |         |          |       |     |           |          |      |          |        |
|----------|---------|----------|-------|-----|-----------|----------|------|----------|--------|
| UL       | Section | Township | Range | Lot | Feet      | From N/S | Feet | From E/W | County |
| Latitude |         |          |       |     | Longitude |          |      |          | NAD    |

## First Take Point (FTP)

|          |         |          |       |     |           |          |      |          |        |
|----------|---------|----------|-------|-----|-----------|----------|------|----------|--------|
| UL       | Section | Township | Range | Lot | Feet      | From N/S | Feet | From E/W | County |
| Latitude |         |          |       |     | Longitude |          |      |          | NAD    |

## Last Take Point (LTP)

|          |         |          |       |     |           |          |      |          |        |
|----------|---------|----------|-------|-----|-----------|----------|------|----------|--------|
| UL       | Section | Township | Range | Lot | Feet      | From N/S | Feet | From E/W | County |
| Latitude |         |          |       |     | Longitude |          |      |          | NAD    |

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

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

Form C-102

## Energy, Minerals &amp; Natural Resources Department

Revised August 1, 2011

## OIL CONSERVATION DIVISION

Submit one copy to appropriate

District Office

1220 South St. Francis Dr.

Santa Fe, NM 87505

☒ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION AS-DRILLED PLAT

|                                         |                                            |                                                    |
|-----------------------------------------|--------------------------------------------|----------------------------------------------------|
| <sup>1</sup> API Number<br>30-015-46320 | <sup>2</sup> Pool Code<br>33740            | <sup>3</sup> Pool Name<br>INGLE WELLS; BONE SPRING |
| <sup>4</sup> Property Code<br>326149    | Property Name<br>ARKENSTONE 31 FEDERAL COM |                                                    |
| <sup>7</sup> OGRID No.<br>16696         | <sup>8</sup> Operator Name<br>OXY USA INC. | <sup>6</sup> Well Number<br>6H                     |
|                                         |                                            | <sup>9</sup> Elevation<br>3345'                    |

<sup>10</sup> Surface Location

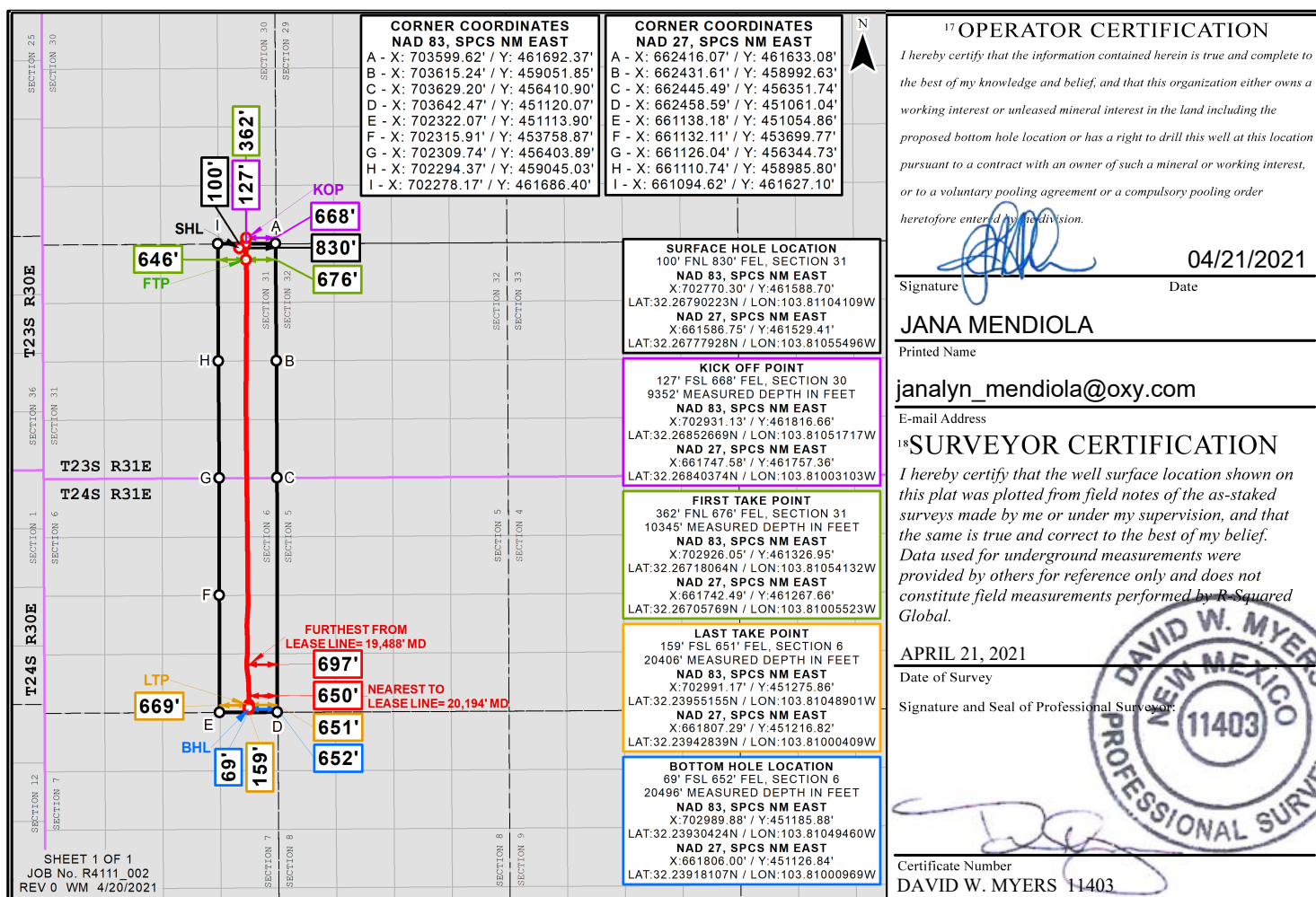
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| A             | 31      | 23S      | 31E   |         | 100           | NORTH            | 830           | EAST           | EDDY   |

<sup>11</sup> 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 |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| P             | 6       | 24S      | 31E   |         | 69            | SOUTH            | 652           | EAST           | EDDY   |

|                                         |                               |                                  |                         |
|-----------------------------------------|-------------------------------|----------------------------------|-------------------------|
| <sup>12</sup> Dedicated Acres<br>320.22 | <sup>13</sup> Joint or Infill | <sup>14</sup> Consolidation Code | <sup>15</sup> Order No. |
|-----------------------------------------|-------------------------------|----------------------------------|-------------------------|

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.



Distances/areas relative to NAD 83 Combined Scale Factor: 0.99977803 Convergence Angle: 00°16'32.4192950"

☐ Horizontal Spacing Unit



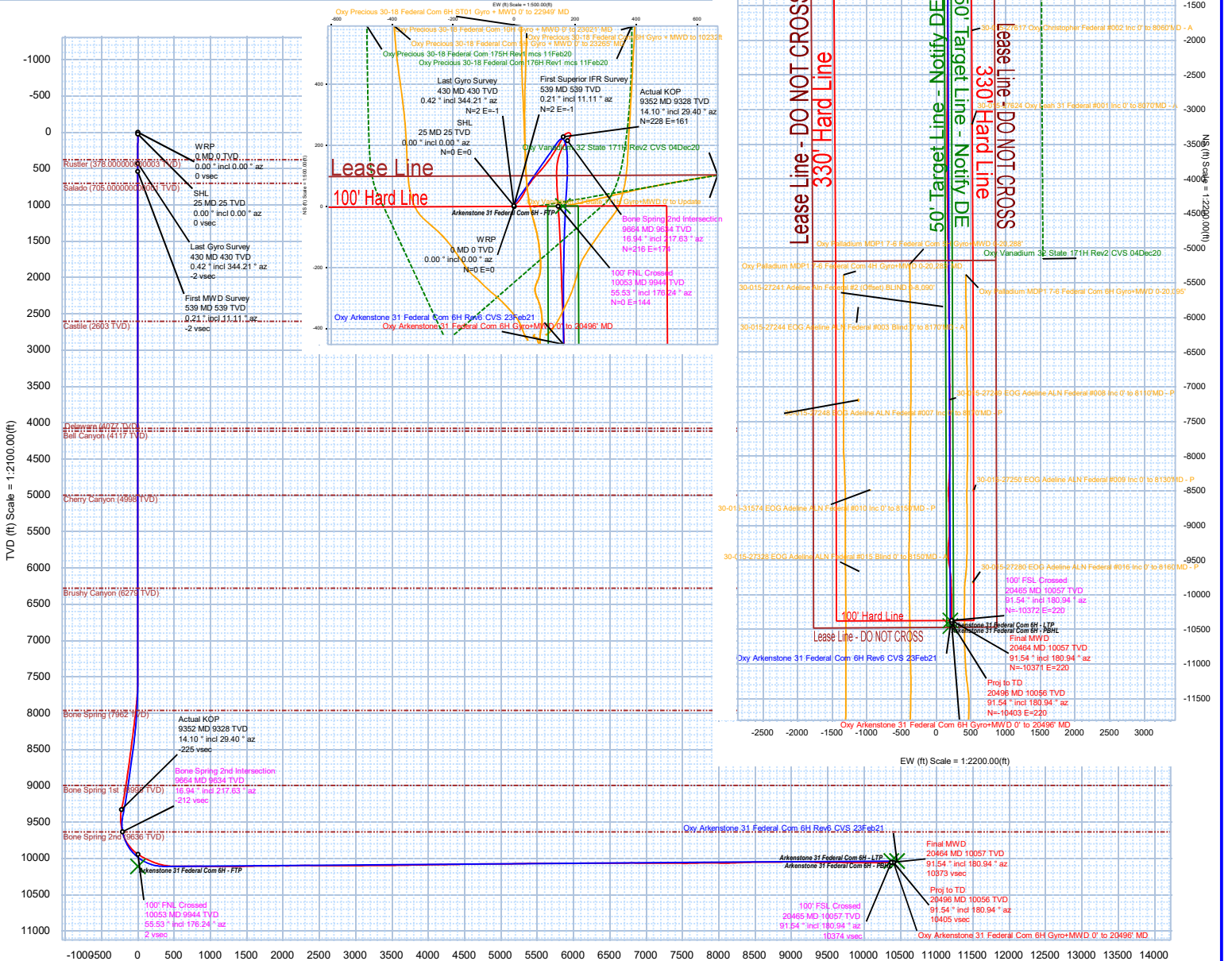
# OXY



|                              |                              |                         |                                  |
|------------------------------|------------------------------|-------------------------|----------------------------------|
| <b>Borehole:</b>             | <b>Well:</b>                 | <b>Field:</b>           | <b>Structure:</b>                |
| Arkenstone 31 Federal Com 6H | Arkenstone 31 Federal Com 6H | NM Eddy County (NAD 83) | Oxy Arkenstone 31 Federal Com 6H |

| Gravity & Magnetic Parameters |        |      |           | Surface Location |                            |  |  | NAD83 New Mexico State Plane, Eastern Zone, US Feet |                |           |             | Miscellaneous                                                                                                                             |            |  |  |
|-------------------------------|--------|------|-----------|------------------|----------------------------|--|--|-----------------------------------------------------|----------------|-----------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------|------------|--|--|
| Model:                        | IFR1   | Dip: | 59.95°    | Date:            | 06-Feb-2021                |  |  | Lat:                                                | N 32 16 4.45   | Northing: | 461588.7HUS | Grid Conv:                                                                                                                                | 0.2788°    |  |  |
| MagDec:                       | 6.851° | FS:  | 47778.4nT | Gravity FS:      | 998.452mgn (9.80665 Based) |  |  | Lon:                                                | W 103 48 39.75 | Easting:  | 702770.3HUS | Scale Fact:                                                                                                                               | 0.99993894 |  |  |
|                               |        |      |           |                  |                            |  |  |                                                     |                |           |             | Slot: Arkenstone 31 Federal Com 6H    TVD Ref: RKB(3370.1ft above MSL)<br>Plan: Oxy Arkenstone 31 Federal Com 6H Gyro+MWD 0' to 20496' MD |            |  |  |

| 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                          | 25.00    | 0.00  | 0.00   | 25.00    | 0.00     | 0.00      | 0.00      | 0.00  |
| Last Gyro Survey             | 430.00   | 0.42  | 344.21 | 429.99   | -1.83    | 1.81      | -1.07     | 0.31  |
| First MWD Survey             | 539.00   | 0.21  | 11.11  | 538.99   | -2.42    | 2.39      | -1.14     | 0.23  |
| Actual KOP                   | 9352.00  | 14.10 | 29.40  | 9327.93  | -224.81  | 227.96    | 160.83    | 1.16  |
| Bone Spring 2nd Intersection | 9663.57  | 16.94 | 217.63 | 9634.10  | -212.41  | 215.82    | 174.40    | 11.46 |
| 100' FNL Crossed             | 10053.00 | 55.53 | 176.24 | 9944.19  | 2.35     | 0.44      | 144.13    | 8.77  |
| Final MWD                    | 20464.00 | 91.54 | 180.94 | 10057.10 | 10373.15 | -10370.83 | 220.10    | 12.21 |
| 100' FSL Crossed             | 20465.00 | 91.54 | 180.94 | 10057.07 | 10374.15 | -10371.83 | 220.09    | 0.00  |
| Proj to TD                   | 20496.00 | 91.54 | 180.94 | 10056.24 | 10405.12 | -10402.82 | 219.58    | 0.00  |



Vertical Section (ft) Azim = 178.89° Scale = 1:2100.00(ft) Origin = 0N/-S, 0E/-W

Schlumberger



## Oxy Arkenstone 31 Federal Com 6H Gyro+MWD 0' to 20496' MD Survey

### Geodetic Report

(Def Survey)

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Report Date:</b> March 08, 2021 - 11:24 AM<br><b>Client:</b> OXY<br><b>Field:</b> NM Eddy County (NAD 83)<br><b>Structure / Slot:</b> Oxy Arkenstone 31 Federal Com 6H / Arkenstone 31 Federal Com 6H<br><b>Well:</b> Arkenstone 31 Federal Com 6H<br><b>Borehole:</b> Arkenstone 31 Federal Com 6H<br><b>UWI / API#:</b> Unknown / 30-015-46320<br><b>Survey Name:</b> Oxy Arkenstone 31 Federal Com 6H Gyro+MWD 0' to 20496' MD<br><b>Tort / AHD / DDI / ERD Ratio:</b> 301.261' / 10985.944 ft / 6.827' / 1.086<br><b>Coordinate Reference System:</b> NAD83 New Mexico State Plane, Eastern Zone, US Feet<br><b>Location Lat / Long:</b> N 32° 16' 4.44803", W 103° 48' 39.74792"<br><b>Location Grid N/E Y/X:</b> N 461588.700 RUS, E 702770.300 RUS<br><b>CRS Grid Convergence Angle:</b> 0.2788 °<br><b>Grid Scale Factor:</b> 0.99993894<br><b>Version / Patch:</b> 2.10.825.0 | <b>Survey / DLS Computation:</b> Minimum Curvature / Lubinski<br><b>Vertical Section Azimuth:</b> 178.893 ° (Grid North)<br><b>Vertical Section Origin:</b> 0.000 ft, 0.000 ft<br><b>TVD Reference Datum:</b> RKB<br><b>TVD Reference Elevation:</b> 3370.100 ft above MSL<br><b>Seabed / Ground Elevation:</b> 3345.100 ft above MSL<br><b>Magnetic Declination:</b> 6.851 °<br><b>Total Gravity Field Strength:</b> 998.4524mgN (9.80665 Based)<br><b>Gravity Model:</b> GARM<br><b>Total Magnetic Field Strength:</b> 47778.400 nT<br><b>Magnetic Dip Angle:</b> 59.950 °<br><b>Declination Date:</b> February 06, 2021<br><b>Magnetic Declination Model:</b> IFR1<br><b>North Reference:</b> Grid North<br><b>Grid Convergence Used:</b> 0.2800 °<br><b>Total Corr Mag North-&gt;Grid North:</b> 6.5710 °<br><b>Local Coord Referenced To:</b> Well Head |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|

| Comments         | MD<br>(ft) | Incl<br>(°) | Azim<br>Grid<br>(°) | TVD<br>(ft) | VSEC<br>(ft) | NS<br>(ft) | EW<br>(ft) | DLS<br>(°/100ft) | Closure<br>(ft) | Closure<br>Azimuth | 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              | 0.00            | 0.00               | 461588.70          | 702770.30         | N 32 16 4.45            | W 103 48 39.75           |
| SHL              | 25.00      | 0.00        | 0.00                | 25.00       | 0.00         | 0.00       | 0.00       | 0.00             | 0.00            | 0.00               | 461588.70          | 702770.30         | N 32 16 4.45            | W 103 48 39.75           |
|                  | 66.00      | 0.10        | 297.24              | 66.00       | -0.02        | 0.02       | -0.03      | 0.24             | 0.04            | 297.24             | 461588.72          | 702770.27         | N 32 16 4.45            | W 103 48 39.75           |
|                  | 94.00      | 0.10        | 308.59              | 94.00       | -0.04        | 0.04       | -0.07      | 0.07             | 0.08            | 300.51             | 461588.74          | 702770.23         | N 32 16 4.45            | W 103 48 39.75           |
|                  | 126.00     | 0.23        | 316.27              | 126.00      | -0.11        | 0.11       | -0.14      | 0.41             | 0.18            | 307.52             | 461588.81          | 702770.16         | N 32 16 4.45            | W 103 48 39.75           |
|                  | 154.00     | 0.22        | 339.44              | 154.00      | -0.20        | 0.20       | -0.20      | 0.32             | 0.28            | 315.14             | 461588.90          | 702770.10         | N 32 16 4.45            | W 103 48 39.75           |
|                  | 182.00     | 0.32        | 346.19              | 182.00      | -0.33        | 0.32       | -0.23      | 0.37             | 0.40            | 324.13             | 461589.02          | 702770.07         | N 32 16 4.45            | W 103 48 39.75           |
|                  | 210.00     | 0.29        | 330.25              | 210.00      | -0.47        | 0.46       | -0.29      | 0.32             | 0.54            | 328.03             | 461589.16          | 702770.01         | N 32 16 4.45            | W 103 48 39.75           |
|                  | 238.00     | 0.42        | 334.61              | 238.00      | -0.62        | 0.62       | -0.37      | 0.47             | 0.72            | 329.19             | 461589.32          | 702769.93         | N 32 16 4.45            | W 103 48 39.75           |
|                  | 272.00     | 0.44        | 332.99              | 272.00      | -0.85        | 0.84       | -0.48      | 0.07             | 0.97            | 330.39             | 461589.54          | 702769.82         | N 32 16 4.46            | W 103 48 39.75           |
|                  | 304.00     | 0.42        | 325.24              | 304.00      | -1.06        | 1.05       | -0.60      | 0.19             | 1.21            | 330.16             | 461589.75          | 702769.70         | N 32 16 4.46            | W 103 48 39.75           |
|                  | 335.00     | 0.39        | 325.32              | 335.00      | -1.24        | 1.23       | -0.73      | 0.10             | 1.43            | 329.41             | 461589.93          | 702769.57         | N 32 16 4.46            | W 103 48 39.76           |
|                  | 367.00     | 0.41        | 322.76              | 366.99      | -1.43        | 1.41       | -0.86      | 0.08             | 1.65            | 328.68             | 461590.11          | 702769.44         | N 32 16 4.46            | W 103 48 39.76           |
|                  | 398.00     | 0.42        | 330.69              | 397.99      | -1.62        | 1.60       | -0.98      | 0.19             | 1.88            | 328.45             | 461590.30          | 702769.32         | N 32 16 4.46            | W 103 48 39.76           |
|                  | 430.00     | 0.42        | 344.21              | 429.99      | -1.83        | 1.81       | -1.07      | 0.31             | 2.11            | 329.44             | 461590.51          | 702769.23         | N 32 16 4.47            | W 103 48 39.76           |
| Last Gyro Survey | 539.00     | 0.21        | 11.11               | 538.99      | -2.42        | 2.39       | -1.14      | 0.23             | 2.65            | 334.52             | 461591.09          | 702769.16         | N 32 16 4.47            | W 103 48 39.76           |
| First MWD Survey | 652.00     | 0.18        | 332.73              | 651.99      | -2.78        | 2.75       | -1.18      | 0.12             | 3.00            | 336.77             | 461591.45          | 702769.12         | N 32 16 4.48            | W 103 48 39.76           |
|                  | 743.00     | 0.17        | 192.13              | 742.99      | -2.77        | 2.75       | -1.28      | 0.36             | 3.03            | 335.11             | 461591.45          | 702769.02         | N 32 16 4.48            | W 103 48 39.76           |
|                  | 834.00     | 0.19        | 73.04               | 833.99      | -2.68        | 2.66       | -1.16      | 0.34             | 2.90            | 336.45             | 461591.36          | 702769.14         | N 32 16 4.47            | W 103 48 39.76           |
|                  | 926.00     | 0.19        | 321.17              | 925.99      | -2.85        | 2.83       | -1.11      | 0.34             | 3.04            | 338.55             | 461591.53          | 702769.19         | N 32 16 4.48            | W 103 48 39.76           |
|                  | 1019.00    | 0.18        | 47.48               | 1018.99     | -3.06        | 3.04       | -1.10      | 0.27             | 3.24            | 340.15             | 461591.74          | 702769.20         | N 32 16 4.48            | W 103 48 39.76           |
|                  | 1109.00    | 0.21        | 166.61              | 1108.99     | -3.00        | 2.98       | -0.96      | 0.37             | 3.13            | 342.20             | 461591.68          | 702769.34         | N 32 16 4.48            | W 103 48 39.76           |
|                  | 1201.00    | 0.20        | 0.78                | 1200.99     | -2.99        | 2.98       | -0.92      | 0.44             | 3.11            | 342.90             | 461591.68          | 702769.38         | N 32 16 4.48            | W 103 48 39.76           |
|                  | 1292.00    | 0.19        | 152.09              | 1291.99     | -3.02        | 3.00       | -0.84      | 0.42             | 3.12            | 344.32             | 461591.70          | 702769.46         | N 32 16 4.48            | W 103 48 39.76           |
|                  | 1384.00    | 0.21        | 195.19              | 1383.99     | -2.72        | 2.70       | -0.82      | 0.16             | 2.82            | 343.22             | 461591.40          | 702769.48         | N 32 16 4.47            | W 103 48 39.76           |
|                  | 1479.00    | 0.19        | 269.48              | 1478.99     | -2.55        | 2.53       | -1.02      | 0.25             | 2.73            | 338.11             | 461591.23          | 702769.28         | N 32 16 4.47            | W 103 48 39.76           |
|                  | 1574.00    | 0.16        | 312.52              | 1573.99     | -2.65        | 2.62       | -1.27      | 0.14             | 2.92            | 334.10             | 461591.32          | 702769.03         | N 32 16 4.47            | W 103 48 39.76           |
|                  | 1668.00    | 0.18        | 319.84              | 1667.99     | -2.85        | 2.82       | -1.47      | 0.03             | 3.18            | 332.57             | 461591.52          | 702768.83         | N 32 16 4.48            | W 103 48 39.76           |
|                  | 1763.00    | 0.20        | 231.85              | 1762.99     | -2.87        | 2.84       | -1.69      | 0.28             | 3.30            | 329.17             | 461591.54          | 702768.61         | N 32 16 4.48            | W 103 48 39.77           |
|                  | 1857.00    | 0.21        | 257.11              | 1856.99     | -2.74        | 2.70       | -1.99      | 0.10             | 3.35            | 323.59             | 461591.40          | 702768.31         | N 32 16 4.47            | W 103 48 39.77           |
|                  | 1952.00    | 0.19        | 245.98              | 1951.99     | -2.64        | 2.60       | -2.30      | 0.05             | 3.47            | 318.42             | 461591.30          | 702768.00         | N 32 16 4.47            | W 103 48 39.77           |
|                  | 2141.00    | 0.17        | 299.39              | 2140.99     | -2.66        | 2.61       | -2.83      | 0.09             | 3.85            | 312.61             | 461591.31          | 702767.47         | N 32 16 4.47            | W 103 48 39.78           |
|                  | 2236.00    | 0.19        | 235.60              | 2235.98     | -2.65        | 2.59       | -3.09      | 0.20             | 4.03            | 309.96             | 461591.29          | 702767.21         | N 32 16 4.47            | W 103 48 39.78           |
|                  | 2331.00    | 0.18        | 238.74              | 2330.98     | -2.48        | 2.42       | -3.34      | 0.01             | 4.13            | 305.89             | 461591.12          | 702766.96         | N 32 16 4.47            | W 103 48 39.79           |
|                  | 2426.00    | 0.18        | 258.45              | 2425.98     | -2.38        | 2.31       | -3.62      | 0.06             | 4.29            | 302.59             | 461591.01          | 702766.68         | N 32 16 4.47            | W 103 48 39.79           |
|                  | 2520.00    | 0.19        | 256.34              | 2519.98     | -2.32        | 2.25       | -3.91      | 0.01             | 4.51            | 299.85             | 461590.95          | 702766.39         | N 32 16 4.47            | W 103 48 39.79           |
|                  | 2615.00    | 0.19        | 337.22              | 2614.98     | -2.43        | 2.35       | -4.13      | 0.26             | 4.75            | 299.70             | 461591.05          | 702766.17         | N 32 16 4.47            | W 103 48 39.80           |
|                  | 2709.00    | 0.18        | 173.64              | 2708.98     | -2.43        | 2.35       | -4.17      | 0.39             | 4.79            | 299.41             | 461591.05          | 702766.13         | N 32 16 4.47            | W 103 48 39.80           |
|                  | 2804.00    | 0.24        | 336.15              | 2803.98     | -2.47        | 2.39       | -4.24      | 0.44             | 4.86            | 299.38             | 461591.09          | 702766.06         | N 32 16 4.47            | W 103 48 39.80           |
|                  | 2899.00    | 0.13        | 195.31              | 2898.98     | -2.55        | 2.46       | -4.35      | 0.37             | 4.99            | 299.55             | 461591.16          | 702765.96         | N 32 16 4.47            | W 103 48 39.80           |
|                  | 2993.00    | 0.16        | 93.37               | 2992.98     | -2.43        | 2.35       | -4.24      | 0.24             | 4.85            | 299.01             | 461591.05          | 702766.06         | N 32 16 4.47            | W 103 48 39.80           |
|                  | 3088.00    | 0.06        | 165.01              | 3087.98     | -2.38        | 2.30       | -4.10      | 0.16             | 4.70            | 299.28             | 461591.00          | 702766.20         | N 32 16 4.47            | W 103 48 39.80           |
|                  | 3183.00    | 0.20        | 60.78               | 3182.98     | -2.41        | 2.33       | -3.94      | 0.23             | 4.58            | 300.60             | 461591.03          | 702766.36         | N 32 16 4.47            | W 103 48 39.79           |
|                  | 3278.00    | 0.15        | 268.94              | 3277.98     | -2.48        | 2.41       | -3.92      | 0.36             | 4.60            | 301.57             | 461591.11          | 702766.38         | N 32 16 4.47            | W 103 48 39.79           |
|                  | 3372.00    | 0.07        | 34.53               | 3371.98     | -2.53        | 2.45       | -4.01      | 0.21             | 4.70            | 301.46             | 461591.15          | 702766.29         | N 32 16 4.47            | W 103 48 39.79           |
|                  | 3466.00    | 0.24        | 310.92              | 3465.98     | -2.71        | 2.63       | -4.13      | 0.26             | 4.89            | 302.51             | 461591.33          | 702766.17         | N 32 16 4.47            | W 103 48 39.80           |
|                  | 3562.00    | 0.15        | 268.31              | 3561.98     | -2.84        | 2.76       | -4.40      | 0.17             | 5.20            | 302.06             | 461591.46          | 702765.90         | N 32 16 4.48            | W 103 48 39.80           |
|                  | 3656.00    | 0.35        | 160.34              | 3655.98     | -2.57        | 2.48       | -4.43      | 0.45             | 5.08            | 299.28             | 461591.18          | 702765.87         | N 32 16 4.47            | W 103 48 39.80           |
|                  | 3751.00    | 0.12        | 371.61              | 3750.98     | -2.12        | 2.04       | -4.26      | 0.14             | 4.73            | 295.60             | 461590.74          | 702766.04         | N 32 16 4.47            | W 103 48 39.80           |
|                  | 3845.00    | 0.20        | 207.27              | 3844.98     | -1.81        | 1.73       | -4.27      | 0.19             | 4.61            | 292.05             | 461590.43          | 702766.03         | N 32 16 4.47            | W 103 48 39.80           |
|                  | 3940.00    | 0.15        | 358.58              | 3939.98     | -1.79        | 1.71       | -4.35      | 0.36             | 4.67            | 291.42             | 461590.41          | 702765.95         | N 32 16 4.47            | W 103 48 39.80           |
|                  | 4035.00    | 0.13        | 233.17              | 4034.98     | -1.85        | 1.77       | -4.44      | 0.26             | 4.78            | 291.70             | 461590.47          | 702765.86         | N 32 16 4.47            | W 103 48 39.80           |
|                  | 4114.00    | 0.18        | 172.92              | 4113.98     | -1.68        | 1.59       | -4.49      | 0.20             | 4.77            | 289.47             | 461590.29          | 702765.81         | N 32 16 4.46            | W 103 48 39.80           |
|                  | 4307.00    | 0.10        | 38.60               | 4306.98     | -1.50        | 1.42       | -4.35      | 0.13             | 4.58            | 288.07             | 461590.12          | 702765.95         | N 32 16 4.46            | W 103 48 39.80           |
|                  | 4338.00    | 0.08        | 119.10              | 4337.99     | -1.51        | 1.43       | -4.32      | 0.38             | 4.55            | 288.34             | 461590.13          | 702765.98         | N 32 16 4.46            | W 103 48 39.80           |
|                  | 4433.00    | 0.07        | 56.68               | 4432.98     | -1.51        | 1.43       | -4.21      | 0.08             | 4.45            | 288.76             | 461590.13          | 702766.09         | N 32 16 4.46            | W 103 48 39.80           |
|                  | 4528.00    | 0.08        | 162.50              | 4527.98     | -1.48        | 1.40       | -4.14      | 0.13             | 4.37            | 288.66             | 461590.10          | 702766.16         | N 32 16 4.46            | W 103 48 39.80           |
|                  | 4623.00    | 0.10        | 75.28               | 4622.98     | -1.43        | 1.36       | -4.04      | 0.13             | 4.26            | 288.56             | 461590.06          | 702766.26         | N 32 16 4.46            | W 103 48 39.79           |
|                  | 4718.00    | 0.07        | 351.37              | 4717.98     | -1.51        | 1.43       | -3.97      | 0.12             | 4.22            | 289.88             | 461590.13          | 702766.33         | N 32 16 4.46            | W 103 48 39.79           |
|                  | 4812.00    | 0.09        | 209.69              | 4811.98     | -1.50        | 1.43       | -4.01      | 0.16             | 4.26            | 289.58             | 461590.13          | 702766.29         | N 32 16 4.46            | W 103 48 39.79           |
|                  | 4906.00    | 0.10        | 507.51              | 4905.98     | -1.34        | 1.26       | -3.96      | 0.07             | 4.16            | 287.63             | 461589.96          | 702766.34         | N 32 16 4.46            | W 103 48 39.79           |
|                  | 5001.00    | 0.09        | 118.27              | 5000.98     | -1.28        | 1.20       | -3.83      | 0.02             | 4.02            | 287.43             | 461589.90          | 702766.47         | N 32 16 4.46            | W 103 48 39.79           |
|                  | 5190.00    | 0.08        | 194.24              | 5189.98     | -1.18        | 1.10       | -3.78      | 0.11             | 3.94            | 286.28             | 461589.80          | 702766.52         | N 32 16 4.46            | W 103 48 39.79           |
|                  | 5285.00    | 0.08        | 179.14              | 5284.98     | -1.05        | 0.97       | -3.80      | 0.02             | 3.92            | 284.38             | 461589.67          | 702766.50         | N 32 16 4.46            | W 103 48 39.79           |
|                  | 5379.00    | 0.08        | 359.55              | 5378.98     | -1.05        | 0.97       | -3.80      | 0.17             | 3.92            | 284.39             | 461589.67          | 702766.50         | N 32 16 4.46            | W 103 48 39.79           |
|                  | 5474.00    | 0.07        | 305.32              | 5473.98     | -1.15        | 1.07       | -3.85      | 0.07             | 3.99            | 285.60             | 461589.77          | 702766.4          |                         |                          |

| Comments                     | MD<br>(ft) | Incl<br>(°) | Azim Grid<br>(°) | TVD<br>(ft) | VSEC<br>(ft) | NS<br>(ft) | EW<br>(ft) | DLS<br>(°/100ft) | Closure<br>(ft) | Closure<br>Azimuth<br>(°) | Northing<br>(ftUS) | Easting<br>(ftUS) | Latitude<br>(N/S ° ' ") | Longitude<br>(E/W ° ' ") |
|------------------------------|------------|-------------|------------------|-------------|--------------|------------|------------|------------------|-----------------|---------------------------|--------------------|-------------------|-------------------------|--------------------------|
| Actual KOP                   | 8878.00    | 10.20       | 37.05            | 8863.81     | -144.80      | 146.96     | 110.18     | 1.61             | 183.67          | 36.56                     | 461735.65          | 702880.47         | N 32 16 5.90            | W 103 48 38.46           |
|                              | 8973.00    | 9.75        | 35.12            | 8957.38     | -157.90      | 160.25     | 119.88     | 0.59             | 200.12          | 36.80                     | 461748.94          | 702890.17         | N 32 16 6.03            | W 103 48 38.34           |
|                              | 9068.00    | 11.18       | 32.20            | 9050.80     | -172.09      | 174.62     | 129.41     | 1.60             | 217.35          | 36.54                     | 461763.31          | 702899.70         | N 32 16 6.17            | W 103 48 38.23           |
|                              | 9162.00    | 12.11       | 30.58            | 9142.86     | -188.10      | 190.82     | 139.29     | 1.05             | 236.25          | 36.13                     | 461779.51          | 702909.58         | N 32 16 6.33            | W 103 48 38.11           |
|                              | 9257.00    | 13.02       | 30.30            | 9235.58     | -205.71      | 208.64     | 149.75     | 0.96             | 256.82          | 35.67                     | 461797.33          | 702920.05         | N 32 16 6.51            | W 103 48 37.99           |
|                              | 9352.00    | 14.10       | 29.40            | 9327.93     | -224.81      | 227.96     | 160.83     | 1.16             | 278.99          | 35.20                     | 461816.65          | 702931.12         | N 32 16 6.70            | W 103 48 37.86           |
|                              | 9442.00    | 10.96       | 71.23            | 9415.95     | -236.98      | 240.49     | 174.35     | 10.40            | 296.88          | 35.96                     | 461828.98          | 702944.64         | N 32 16 6.82            | W 103 48 37.70           |
|                              | 9537.00    | 7.84        | 163.12           | 9510.09     | -233.37      | 236.98     | 184.83     | 14.38            | 300.54          | 37.95                     | 461825.67          | 702955.12         | N 32 16 6.78            | W 103 48 37.58           |
|                              | 9635.00    | 13.76       | 220.67           | 9606.55     | -218.19      | 221.70     | 179.15     | 11.82            | 285.04          | 38.94                     | 461810.38          | 702949.44         | N 32 16 6.63            | W 103 48 37.65           |
|                              | 9663.57    | 16.94       | 217.63           | 9634.10     | -212.41      | 215.82     | 174.40     | 11.46            | 277.48          | 38.94                     | 461804.51          | 702944.69         | N 32 16 6.58            | W 103 48 37.70           |
| Bone Spring 2nd Intersection | 9730.00    | 24.42       | 213.57           | 9696.21     | -193.54      | 196.69     | 160.88     | 11.46            | 254.10          | 39.28                     | 461785.38          | 702931.17         | N 32 16 6.39            | W 103 48 37.86           |
|                              | 9825.00    | 22.11       | 197.02           | 9780.02     | -152.77      | 155.58     | 144.21     | 12.90            | 212.14          | 42.83                     | 461744.27          | 702914.50         | N 32 16 5.98            | W 103 48 38.06           |
|                              | 9919.00    | 40.67       | 179.10           | 9855.75     | -97.73       | 171.00     | 138.59     | 12.66            | 121.48          | 54.15                     | 461689.12          | 702909.28         | N 32 16 4.46            | W 103 48 38.12           |
|                              | 10014.00   | 52.11       | 176.11           | 9921.17     | -29.09       | 31.84      | 142.03     | 12.25            | 145.56          | 77.36                     | 461620.54          | 702912.32         | N 32 16 4.74            | W 103 48 38.09           |
|                              | 10053.00   | 55.53       | 176.24           | 9944.19     | 2.35         | 0.44       | 144.13     | 8.77             | 144.13          | 89.83                     | 461589.14          | 702914.42         | N 32 16 4.45            | W 103 48 38.07           |
|                              | 10109.00   | 60.44       | 176.41           | 9973.87     | 49.77        | -46.93     | 147.17     | 8.77             | 154.47          | 107.69                    | 461541.77          | 702917.46         | N 32 16 3.98            | W 103 48 38.04           |
|                              | 10204.00   | 64.71       | 177.63           | 10017.62    | 134.02       | -131.12    | 151.53     | 4.64             | 200.39          | 130.87                    | 461457.59          | 702921.82         | N 32 16 3.14            | W 103 48 37.99           |
|                              | 10299.00   | 69.06       | 178.53           | 10054.90    | 221.37       | -218.42    | 154.45     | 4.66             | 267.51          | 144.74                    | 461370.29          | 702924.74         | N 32 16 2.28            | W 103 48 37.96           |
|                              | 10394.00   | 89.65       | 180.63           | 10109.94    | 311.63       | -308.65    | 157.57     | 6.13             | 340.54          | 152.96                    | 461280.07          | 702927.86         | N 32 16 1.39            | W 103 48 37.93           |
|                              | 10489.00   | 83.21       | 177.63           | 10102.45    | 404.78       | -401.74    | 161.50     | 8.84             | 432.98          | 158.10                    | 461186.99          | 702931.79         | N 32 16 0.47            | W 103 48 37.89           |
| 100' FNL Crossed             | 10584.00   | 89.71       | 178.74           | 10108.31    | 499.54       | -496.46    | 164.50     | 6.94             | 523.00          | 161.67                    | 461092.27          | 702934.79         | N 32 15 59.53           | W 103 48 37.86           |
|                              | 10679.00   | 89.84       | 178.57           | 10108.68    | 594.54       | -591.43    | 166.73     | 0.23             | 614.48          | 164.26                    | 460997.31          | 702937.02         | N 32 15 58.59           | W 103 48 37.84           |
|                              | 10774.00   | 89.83       | 179.47           | 10108.96    | 689.54       | -686.42    | 168.35     | 0.95             | 706.76          | 166.22                    | 460902.33          | 702938.64         | N 32 15 57.65           | W 103 48 37.83           |
|                              | 10869.00   | 89.64       | 180.38           | 10109.39    | 784.52       | -781.41    | 168.48     | 0.98             | 799.37          | 167.83                    | 460807.34          | 702938.77         | N 32 15 56.71           | W 103 48 37.83           |
|                              | 10964.00   | 89.65       | 180.63           | 10109.98    | 879.48       | -876.41    | 167.94     | 0.26             | 892.30          | 169.17                    | 460712.35          | 702937.93         | N 32 15 55.77           | W 103 48 37.85           |
|                              | 11059.00   | 89.77       | 180.35           | 10110.46    | 974.44       | -971.40    | 166.83     | 0.32             | 985.62          | 170.26                    | 460617.36          | 702937.12         | N 32 15 54.83           | W 103 48 37.86           |
|                              | 11154.00   | 89.12       | 179.97           | 10111.38    | 1069.42      | -1066.40   | 166.56     | 0.79             | 1079.33         | 171.12                    | 460522.37          | 702936.85         | N 32 15 53.89           | W 103 48 37.87           |
|                              | 11249.00   | 89.92       | 180.55           | 10112.18    | 1164.38      | -1161.39   | 166.13     | 1.04             | 1173.21         | 171.86                    | 460427.38          | 702936.42         | N 32 15 52.95           | W 103 48 37.88           |
|                              | 11343.00   | 90.26       | 179.73           | 10112.03    | 1258.36      | -1255.39   | 165.90     | 0.94             | 1266.30         | 172.47                    | 460333.39          | 702936.19         | N 32 15 52.02           | W 103 48 37.89           |
|                              | 11438.00   | 90.36       | 180.60           | 10111.52    | 1353.34      | -1350.39   | 165.63     | 0.92             | 1360.51         | 173.01                    | 460238.40          | 702935.92         | N 32 15 51.08           | W 103 48 37.90           |
| Final MWD                    | 11534.00   | 90.72       | 180.45           | 10110.25    | 1449.29      | -1446.37   | 164.76     | 0.84             | 1452.73         | 173.50                    | 460142.42          | 702935.05         | N 32 15 50.13           | W 103 48 37.91           |
|                              | 11629.00   | 91.54       | 180.53           | 10108.02    | 1544.22      | -1541.34   | 164.76     | 0.82             | 1550.04         | 173.93                    | 460047.44          | 702934.24         | N 32 15 49.19           | W 103 48 37.93           |
|                              | 11723.00   | 91.18       | 179.80           | 10105.79    | 1638.17      | -1635.32   | 163.68     | 0.47             | 1643.49         | 174.28                    | 459953.49          | 702933.97         | N 32 15 48.26           | W 103 48 37.93           |
|                              | 11818.00   | 91.27       | 180.78           | 10103.76    | 1733.12      | -1730.29   | 163.20     | 1.04             | 1737.97         | 174.61                    | 459858.52          | 702933.49         | N 32 15 47.32           | W 103 48 37.95           |
|                              | 11913.00   | 88.23       | 179.01           | 10104.18    | 1828.09      | -1825.28   | 163.37     | 3.70             | 1832.57         | 174.89                    | 459763.54          | 702933.66         | N 32 15 46.38           | W 103 48 37.95           |
|                              | 12008.00   | 92.25       | 179.82           | 10103.78    | 1923.07      | -1920.25   | 164.34     | 4.32             | 1927.27         | 175.11                    | 459668.57          | 702934.63         | N 32 15 45.44           | W 103 48 37.94           |
|                              | 12103.00   | 92.72       | 180.28           | 10102.97    | 2018.03      | -2015.23   | 164.26     | 3.75             | 2015.23         | 175.54                    | 459574.59          | 702934.66         | N 32 15 44.44           | W 103 48 37.95           |
|                              | 12198.00   | 92.32       | 180.14           | 10102.11    | 2112.99      | -2110.21   | 163.91     | 2.79             | 2116.57         | 175.56                    | 459478.62          | 702934.20         | N 32 15 43.56           | W 103 48 37.96           |
|                              | 12293.00   | 90.63       | 180.75           | 10099.67    | 2207.91      | -2205.17   | 163.18     | 1.89             | 2211.20         | 175.77                    | 459383.67          | 702933.47         | N 32 15 42.62           | W 103 48 37.97           |
|                              | 12388.00   | 90.10       | 180.44           | 10099.06    | 2302.87      | -2300.17   | 162.19     | 0.65             | 2305.88         | 175.97                    | 459288.68          | 702932.48         | N 32 15 41.68           | W 103 48 37.99           |
| 100' FSL Crossed             | 12482.00   | 89.09       | 180.41           | 10099.73    | 2396.83      | -2394.16   | 161.49     | 0.77             | 2399.60         | 176.14                    | 459194.69          | 702931.78         | N 32 15 40.75           | W 103 48 38.00           |
|                              | 12577.00   | 89.79       | 180.43           | 10100.65    | 2491.79      | -2489.15   | 160.80     | 1.04             | 2494.34         | 176.30                    | 459099.70          | 702931.09         | N 32 15 39.81           | W 103 48 38.02           |
|                              | 12672.00   | 89.78       | 180.18           | 10101.01    | 2586.76      | -2584.15   | 160.29     | 0.26             | 2589.12         | 176.45                    | 459004.71          | 702930.58         | N 32 15 38.87           | W 103 48 38.03           |
|                              | 12767.00   | 90.85       | 180.45           | 10101.94    | 2681.75      | -2679.15   | 160.15     | 0.21             | 2683.94         | 176.50                    | 458910.44          | 702930.44         | N 32 15 37.94           | W 103 48 38.03           |
|                              | 12862.00   | 90.15       | 180.35           | 10101.32    | 2773.72      | -2771.52   | 159.87     | 0.50             | 2777.75         | 176.40                    | 458815.73          | 702930.16         | N 32 15 37.00           | W 103 48 38.04           |
|                              | 12957.00   | 90.18       | 180.84           | 10101.04    | 2871.68      | -2869.14   | 158.87     | 0.51             | 2873.54         | 176.83                    | 458719.74          | 702929.16         | N 32 15 36.05           | W 103 48 38.06           |
|                              | 13052.00   | 89.73       | 180.72           | 10101.12    | 2966.63      | -2964.13   | 157.58     | 0.49             | 2968.32         | 176.96                    | 458624.75          | 702927.87         | N 32 15 35.11           | W 103 48 38.08           |
|                              | 13147.00   | 91.10       | 180.34           | 10100.43    | 3061.53      | -3059.13   | 156.70     | 1.50             | 3063.14         | 177.07                    | 458529.77          | 702926.99         | N 32 15 34.17           | W 103 48 38.10           |
|                              | 13242.00   | 90.37       | 180.22           | 10099.22    | 3155.55      | -3153.12   | 156.24     | 0.79             | 3156.98         | 177.16                    | 458435.78          | 702926.53         | N 32 15 33.24           | W 103 48 38.11           |
|                              | 13336.00   | 90.45       | 180.46           | 10098.96    | 3249.51      | -3246.11   | 155.86     | 0.64             | 3251.49         | 177.17                    | 458340.72          | 702925.97         | N 32 15 32.30           | W 103 48 38.12           |
| 100' FSL Crossed             | 13431.00   | 90.20       | 180.53           | 10098.63    | 3345.48      | -3343.11   | 154.86     | 0.16             | 3346.69         | 177.35                    | 458245.80          | 702925.15         | N 32 15 31.36           | W 103 48 38.13           |
|                              | 13526.00   | 90.91       | 180.39           | 10097.71    | 3440.44      | -3438.10   | 154.09     | 0.76             | 3441.55         | 177.43                    | 458150.82          | 702924.39         | N 32 15 30.42           | W 103 48 38.15           |
|                              | 13621.00   | 91.10       | 179.76           | 10096.05    | 3535.40      | -3533.09   | 153.97     | 0.69             | 3536.44         | 177.50                    | 458055.84          | 702924.26         | N 32 15 29.48           | W 103 48 38.16           |
|                              | 13716.00   | 90.88       | 178.83           | 10094.41    | 3630.38      | -3628.06   | 155.14     | 1.01             | 3631.38         | 177.55                    | 457960.87          | 702925.43         | N 32 15 28.54           | W 103 48 38.15           |
|                              | 13810.00   | 91.37       | 179.55           | 10092.56    | 3724.36      | -3722.04   | 156.47     | 0.93             | 3725.32         | 177.59                    | 457866.90          | 702926.76         | N 32 15 27.61           | W 103 48 38.14           |
|                              | 13905.00   | 91.26       | 179.73           | 10091.34    | 3819.34      | -3817.02   | 156.25     | 0.67             | 3820.32         | 177.62                    | 457771.92          | 702927.38         | N 32 15 26.67           | W 103 48 38.13           |
|                              | 13999.00   | 90.97       | 179.69           | 10089.82    | 3913.32      | -3911.01   | 155.79     | 0.51             | 3914.18         | 177.69                    | 457677.94          | 702927.88         | N 32 15 25.74           | W 103 48 38.13           |
|                              | 14094.00   | 90.79       | 179.86           | 10088.36    | 4008.30      | -4006.00   | 155.96     | 0.26             | 4009.11         | 177.74                    | 457582.95          | 702928.25         | N 32 15 24.80           | W 103 48 38.14           |
|                              | 14189.00   | 91.52       | 178.94           | 10086.45    | 4103.28      | -4100.97   | 158.96     | 1.24             | 4104.05         | 177.78                    | 457487.99          | 702929.25         | N 32 15 23.86           | W 103 48 38.13           |
|                              | 14284.00   | 89.63       | 180.03           | 10085.49    | 4198.26      | -4195.96   | 159.81     | 2.30             | 4199.00         | 177.82                    | 457393.01          | 702930.10         | N 32 15 22.92           | W 103 48 38.12           |
| 100' FSL Crossed             | 14379.00   | 91.03       | 178.93           | 10084.95    | 4293.25      | -4290.95   | 160.67     | 1.87             | 4293.96         | 177.86                    | 457298.02          | 702930.96         | N 32 15 21.98           | W 103 48 38.12           |
|                              | 14474.00   | 91.25       | 179.53           | 10083.06    | 4388.23      | -4385.92   | 161.95     | 0.61             | 4389.05         | 177.89                    | 457203.06          | 702932.24         | N 32 15 21.04           | W 103 48 38.11           |
|                              | 14569.00   | 90.70       | 179.35           | 10081.44    | 4483.21      | -4480.90   | 162.94     | 0.61             | 4483.86         | 177.92                    | 457108.08          | 702933.17         | N 32 15 20.10           | W 103 48 38.11           |
|                              | 14664.00   | 91.00       | 179.00           | 10080.03    | 4578.20      | -4575.88   | 164.25     | 0.49             | 4578.83         | 177.94                    | 457013.11          | 702934.54         | N 32 15 19.16           | W                        |

| Comments                               | MD<br>(ft)                                           | Incl<br>(°)     | Azim Grid<br>(°) | TVD<br>(ft)      | VSEC<br>(ft)      | NS<br>(ft)              | EW<br>(ft)                | DLS<br>(°/100ft)                                                                                  | Closure<br>(ft) | Closure<br>Azimuth<br>(°) | Northing<br>(ftUS) | Easting<br>(ftUS) | Latitude<br>(N/S ° ' ") | Longitude<br>(E/W ° ' ") |
|----------------------------------------|------------------------------------------------------|-----------------|------------------|------------------|-------------------|-------------------------|---------------------------|---------------------------------------------------------------------------------------------------|-----------------|---------------------------|--------------------|-------------------|-------------------------|--------------------------|
| Survey Error Model:<br>Survey Program: | ISCWSA Rev 3 *** 3-D 95.000% Confidence 2.7955 sigma |                 |                  |                  |                   |                         |                           |                                                                                                   |                 |                           |                    |                   |                         |                          |
| Description                            | Part                                                 | MD From<br>(ft) | MD To<br>(ft)    | EOU Freq<br>(ft) | Hole Size<br>(in) | Casing Diameter<br>(in) | Survey Tool Type          | Borehole / Survey                                                                                 |                 |                           |                    |                   |                         |                          |
|                                        | 1                                                    | 0.000           | 25.000           | 1/98.425         | 26.400            | 26.400                  | GYD_GC+DROP+OH-Depth Only | Arkenstone 31 Federal Com 6H /<br>Oxy Arkenstone 31 Federal Com<br>6H Gyro+MWD 0' to 20496' MD    |                 |                           |                    |                   |                         |                          |
|                                        | 1                                                    | 25.000          | 25.000           | Act Stns         | 26.400            | 26.400                  | GYD_GC+DROP+OH-Depth Only | Arkenstone 31 Federal Com 6H /<br>Oxy Arkenstone 31 Federal Com<br>6H Gyro+MWD 0' to 20496' MD    |                 |                           |                    |                   |                         |                          |
|                                        | 1                                                    | 25.000          | 430.000          | Act Stns         | 26.400            | 26.400                  | GYD_GC+DROP+OH            | Arkenstone 31 Federal Com 6H /<br>Oxy Arkenstone 31 Federal Com<br>Arkenstone 31 Federal Com 6H / |                 |                           |                    |                   |                         |                          |
|                                        | 1                                                    | 430.000         | 20496.000        | Act Stns         | 26.400            | 26.400                  | A010Mb_MWD+IFR1+SAG+MS    | Oxy Arkenstone 31 Federal Com<br>6H Gyro+MWD 0' to 20496' MD                                      |                 |                           |                    |                   |                         |                          |

**District I**

1625 N. French Dr., Hobbs, NM 88240  
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**District II**

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**District III**

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**District IV**

1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

ACKNOWLEDGMENTS

Action 25068

**ACKNOWLEDGMENTS**

|                                                                    |                                                    |
|--------------------------------------------------------------------|----------------------------------------------------|
| Operator:<br>OXY USA INC<br>P.O. Box 4294<br>Houston, TX 772104294 | OGRID:<br>16696                                    |
|                                                                    | Action Number:<br>25068                            |
|                                                                    | Action Type:<br>[C-104] Completion Packet (C-104C) |

**ACKNOWLEDGMENTS**

|                          |                                                                                                                    |
|--------------------------|--------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> | I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.     |
| <input type="checkbox"/> | I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion. |

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**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
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**Santa Fe, NM 87505**

CONDITIONS

Action 25068

## CONDITIONS

|                                                                    |                                                    |
|--------------------------------------------------------------------|----------------------------------------------------|
| Operator:<br>OXY USA INC<br>P.O. Box 4294<br>Houston, TX 772104294 | OGRID:<br>16696                                    |
|                                                                    | Action Number:<br>25068                            |
|                                                                    | Action Type:<br>[C-104] Completion Packet (C-104C) |

## CONDITIONS

| Created By | Condition                                                                                                                  | Condition Date |
|------------|----------------------------------------------------------------------------------------------------------------------------|----------------|
| ksimmons   | RT C-104 EXPIRES 07/21/2021. Submit all drilling, casing, and completion/frac sundries and completion report as available. | 7/15/2021      |