

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- 04/02/2021 |
| <sup>4</sup> API Number<br>30-015-46373                                                    | <sup>5</sup> Pool Name<br>Ingle Wells; Bone Spring     | <sup>6</sup> Pool Code<br>33740                                         |
| <sup>7</sup> Property Code: 326187                                                         | <sup>8</sup> Property Name: PRECIOUS 30-18 FEDERAL COM | <sup>9</sup> Well Number: 1H                                            |

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

| Ul or lot no.<br>D | Section<br>31 | Township<br>23S | Range<br>31E | Lot Idn | Feet from the<br>570 | North/South Line<br>NORTH | Feet from the<br>550 | East/West line<br>WEST | County<br>EDDY |
|--------------------|---------------|-----------------|--------------|---------|----------------------|---------------------------|----------------------|------------------------|----------------|
|--------------------|---------------|-----------------|--------------|---------|----------------------|---------------------------|----------------------|------------------------|----------------|

<sup>11</sup> Bottom Hole Location      FTP: 262' FSL 337' FWL      LTP: 2402' FSL 334' FWL

| UL or lot no.<br>L          | Section<br>18                                 | Township<br>23S | Range<br>31E                                 | Lot Idn | Feet from the<br>2620             | North/South line<br>SOUTH | Feet from the<br>343               | East/West line<br>WEST | County<br>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>12/09/2019 | <sup>22</sup> Ready Date<br>04/02/2021 | <sup>23</sup> TD<br>23204'M 10034'V | <sup>24</sup> PBDT<br>23170'M 9682'V | <sup>25</sup> Perforations<br>10260-22986' | <sup>26</sup> DHC, MC |
| <sup>27</sup> Hole Size               |                                        | <sup>28</sup> Casing & Tubing Size  |                                      | <sup>29</sup> Depth Set                    |                       |
| 17-1/2"                               |                                        | 13-3/8"                             |                                      | 460'                                       |                       |
| 12-1/4"                               |                                        | 9-5/8"                              |                                      | 4066'                                      |                       |
| 8-3/4"                                |                                        | 7-5/8"                              |                                      | 10274'                                     |                       |
| 6-3/4"                                |                                        | 5-1/2"                              |                                      | 23183'                                     |                       |
|                                       |                                        |                                     |                                      | <sup>30</sup> Sacks Cement                 |                       |
|                                       |                                        |                                     |                                      | 640                                        |                       |
|                                       |                                        |                                     |                                      | 1510                                       |                       |
|                                       |                                        |                                     |                                      | 942                                        |                       |
|                                       |                                        |                                     |                                      | 1041                                       |                       |

**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: 03/31/2021      Phone: 432-685-5936

OIL CONSERVATION DIVISION

Approved by:  
Kurt Simmons

Title:  
NMOCD, Santa Fe

Approval Date: 06/09/2021

RT C-104 EXPIRES 07/02/21

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: (505) 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  
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

WELL LOCATION AND ACREAGE DEDICATION AS-DRILLED PLAT

|                                         |                                             |                                                                   |
|-----------------------------------------|---------------------------------------------|-------------------------------------------------------------------|
| <sup>1</sup> API Number<br>30-015-46373 | <sup>2</sup> Pool Code<br>33740             | <sup>3</sup> Pool Name<br>INGLE WELLS; BONE SPRING                |
| <sup>4</sup> Property Code<br>326187    | Property Name<br>PRECIOUS 30-18 FEDERAL COM |                                                                   |
| <sup>7</sup> OGRID No.<br>16696         | <sup>8</sup> Operator Name<br>OXY USA INC.  | <sup>6</sup> Well Number<br>1H<br><sup>9</sup> Elevation<br>3347' |

<sup>10</sup> Surface Location

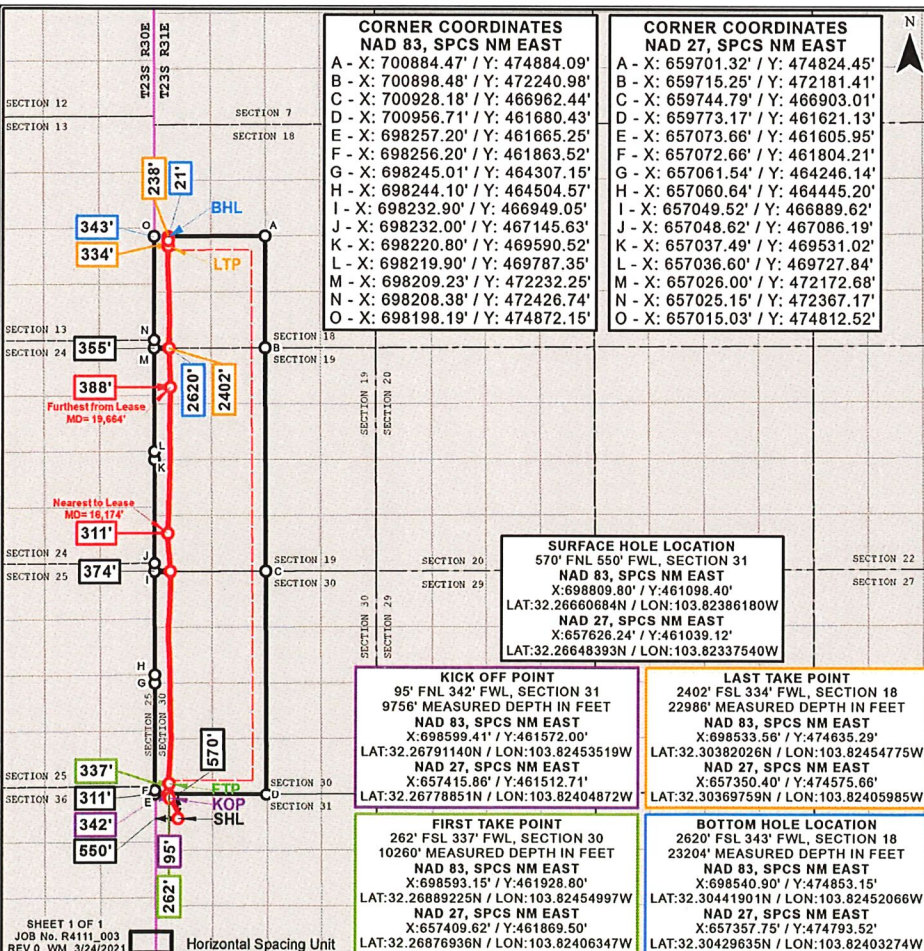
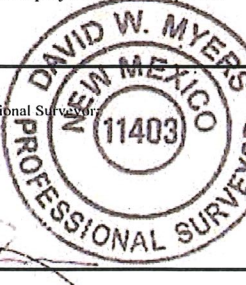
|                      |               |                 |              |         |                      |                           |                      |                        |                |
|----------------------|---------------|-----------------|--------------|---------|----------------------|---------------------------|----------------------|------------------------|----------------|
| UL or lot no.<br>L 1 | Section<br>31 | Township<br>23S | Range<br>31E | Lot Idn | Feet from the<br>570 | North/South line<br>NORTH | Feet from the<br>550 | East/West line<br>WEST | County<br>EDDY |
|----------------------|---------------|-----------------|--------------|---------|----------------------|---------------------------|----------------------|------------------------|----------------|

<sup>11</sup> Bottom Hole Location If Different From Surface

|                      |               |                 |              |         |                       |                           |                      |                        |                |
|----------------------|---------------|-----------------|--------------|---------|-----------------------|---------------------------|----------------------|------------------------|----------------|
| UL or lot no.<br>L 3 | Section<br>18 | Township<br>23S | Range<br>31E | Lot Idn | Feet from the<br>2620 | North/South line<br>SOUTH | Feet from the<br>343 | East/West line<br>WEST | County<br>EDDY |
|----------------------|---------------|-----------------|--------------|---------|-----------------------|---------------------------|----------------------|------------------------|----------------|

|                                         |                               |                                  |                         |
|-----------------------------------------|-------------------------------|----------------------------------|-------------------------|
| <sup>12</sup> Dedicated Acres<br>816.41 | <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.

|                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <b>CORNER COORDINATES<br/>NAD 83, SPCS NM EAST</b><br>A - X: 700884.47' / Y: 474884.09'<br>B - X: 700898.48' / Y: 472240.98'<br>C - X: 700928.18' / Y: 466962.44'<br>D - X: 700956.71' / Y: 461680.43'<br>E - X: 698257.20' / Y: 461665.25'<br>F - X: 698256.20' / Y: 461863.52'<br>G - X: 698245.01' / Y: 464307.15'<br>H - X: 698244.10' / Y: 464504.57'<br>I - X: 698232.90' / Y: 466949.05'<br>J - X: 698232.00' / Y: 467145.63'<br>K - X: 698220.80' / Y: 469590.52'<br>L - X: 698219.90' / Y: 469787.35'<br>M - X: 698209.23' / Y: 472232.25'<br>N - X: 698208.38' / Y: 472426.74'<br>O - X: 698198.19' / Y: 474872.15' | <b>CORNER COORDINATES<br/>NAD 27, SPCS NM EAST</b><br>A - X: 659701.32' / Y: 474824.45'<br>B - X: 659715.25' / Y: 472181.41'<br>C - X: 659744.79' / Y: 466903.01'<br>D - X: 659773.17' / Y: 461621.13'<br>E - X: 657073.66' / Y: 461605.95'<br>F - X: 657072.66' / Y: 461804.21'<br>G - X: 657061.54' / Y: 464246.14'<br>H - X: 657060.64' / Y: 464445.20'<br>I - X: 657049.52' / Y: 466889.62'<br>J - X: 657048.62' / Y: 467086.19'<br>K - X: 657037.49' / Y: 469531.02'<br>L - X: 657036.60' / Y: 469727.84'<br>M - X: 657026.00' / Y: 472172.68'<br>N - X: 657025.15' / Y: 472367.17'<br>O - X: 657015.03' / Y: 474812.52' | <b><sup>17</sup> OPERATOR CERTIFICATION</b><br>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.<br><br>Signature:  Date: 03/31/21<br>JANA MENDIOLA<br>Printed Name<br>janalyn_mendiola@oxy.com<br>E-mail Address |
|                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>SURFACE HOLE LOCATION</b><br>570' FNL 550' FWL, SECTION 31<br>NAD 83, SPCS NM EAST<br>X: 698809.80' / Y: 461098.40'<br>LAT: 32.26660684N / LON: 103.82386180W<br>NAD 27, SPCS NM EAST<br>X: 657626.24' / Y: 461039.12'<br>LAT: 32.26648393N / LON: 103.82337540W                                                                                                                                                                                                                                                                                                                                                           | <b><sup>18</sup> SURVEYOR CERTIFICATION</b><br>I hereby certify that the well surface location shown on this plat was plotted from field notes of the as-staked surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Data used for underground measurements were provided by others for reference only and does not constitute field measurements performed by R-Squared Global.<br><br>MARCH 24, 2021<br>Date of Survey<br>Signature and Seal of Professional Surveyor: <br>Certificate Number: DAVID W. MYERS 11403                                                                                            |
|                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>KICK OFF POINT</b><br>95' FNL 342' FWL, SECTION 31<br>9756' MEASURED DEPTH IN FEET<br>NAD 83, SPCS NM EAST<br>X: 698599.41' / Y: 461572.00'<br>LAT: 32.26791140N / LON: 103.82453519W<br>NAD 27, SPCS NM EAST<br>X: 657415.86' / Y: 461512.71'<br>LAT: 32.26778851N / LON: 103.82404872W                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <b>LAST TAKE POINT</b><br>2402' FSL 334' FWL, SECTION 18<br>22986' MEASURED DEPTH IN FEET<br>NAD 83, SPCS NM EAST<br>X: 698533.56' / Y: 474635.29'<br>LAT: 32.30382026N / LON: 103.82454775W<br>NAD 27, SPCS NM EAST<br>X: 657350.40' / Y: 474575.66'<br>LAT: 32.30369759N / LON: 103.82405985W                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                                                                     | <b>FIRST TAKE POINT</b><br>262' FSL 337' FWL, SECTION 30<br>10260' MEASURED DEPTH IN FEET<br>NAD 83, SPCS NM EAST<br>X: 698593.15' / Y: 461928.80'<br>LAT: 32.26889225N / LON: 103.82454997W<br>NAD 27, SPCS NM EAST<br>X: 657409.62' / Y: 461869.50'<br>LAT: 32.26876936N / LON: 103.82406347W                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|                                                                                     | <b>BOTTOM HOLE LOCATION</b><br>2620' FSL 343' FWL, SECTION 18<br>23204' MEASURED DEPTH IN FEET<br>NAD 83, SPCS NM EAST<br>X: 698540.90' / Y: 474853.15'<br>LAT: 32.30441901N / LON: 103.82452066W<br>NAD 27, SPCS NM EAST<br>X: 657357.75' / Y: 474793.52'<br>LAT: 32.30429635N / LON: 103.82403274W                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

Distances/areas relative to NAD 83 Combined Scale Factor: 0.99977803 Convergence Angle: 00°16'32.419295"

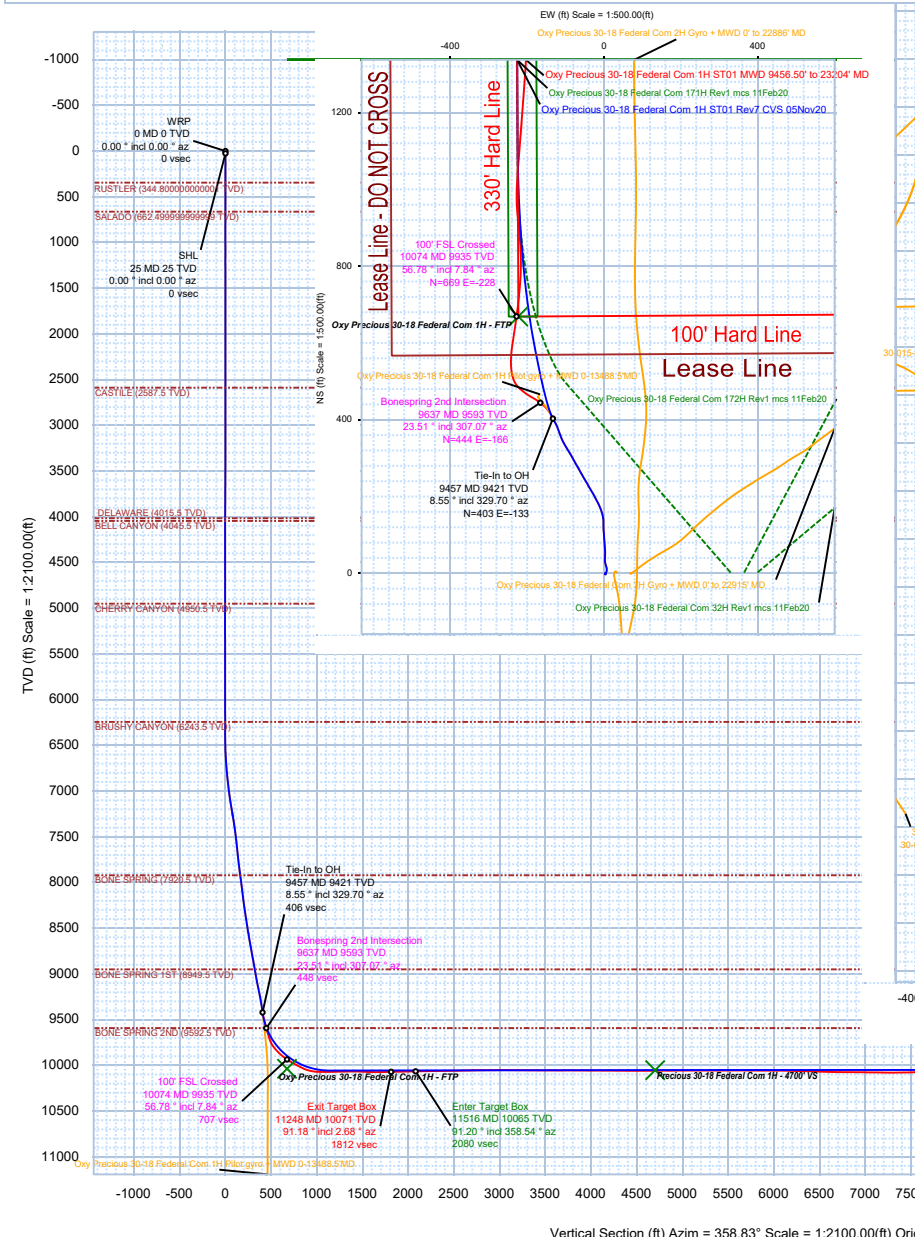
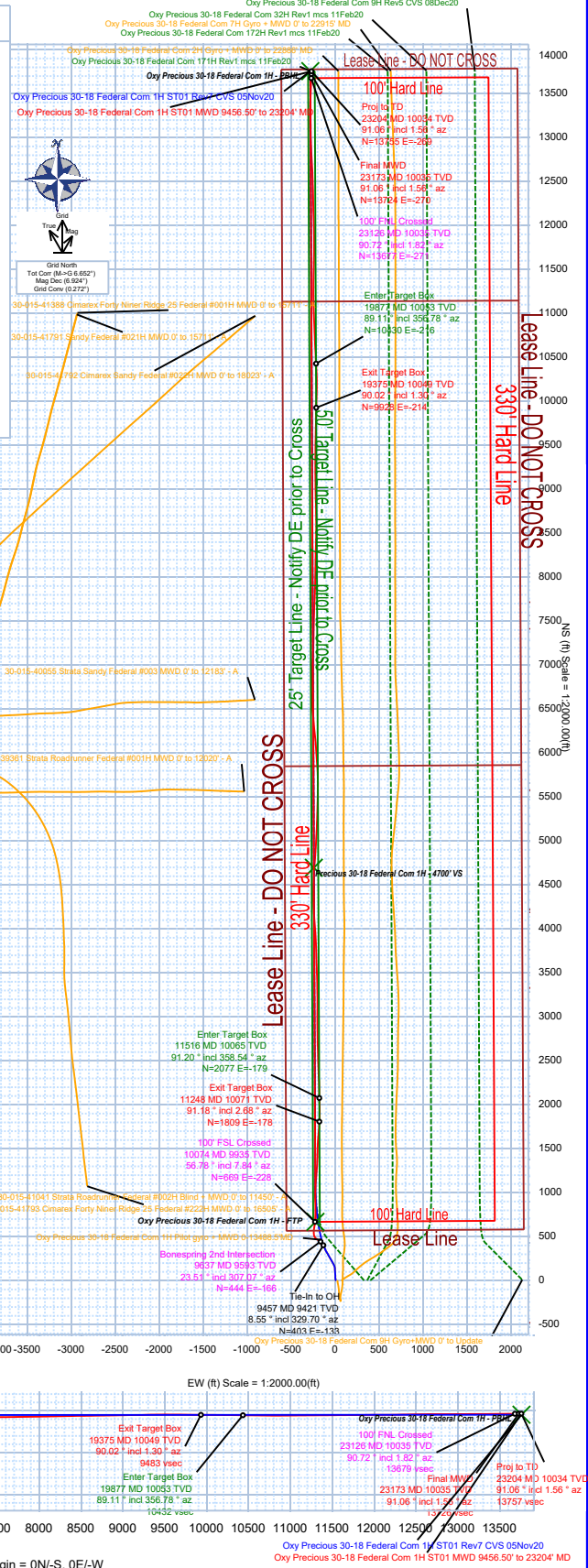


OXY



|                                    |  |             |  |                                        |  |                     |  |                         |  |                        |  |                                                     |  |                                       |  |               |  |  |  |
|------------------------------------|--|-------------|--|----------------------------------------|--|---------------------|--|-------------------------|--|------------------------|--|-----------------------------------------------------|--|---------------------------------------|--|---------------|--|--|--|
| Borehole:                          |  |             |  | Well:                                  |  |                     |  | Field:                  |  |                        |  | Structure:                                          |  |                                       |  |               |  |  |  |
| Precious 30-18 Federal Com 1H ST01 |  |             |  | Oxy Precious 30-18 Federal Com 1H      |  |                     |  | NM Eddy County (NAD 83) |  |                        |  | Oxy Precious 30-18 Federal Com 1H                   |  |                                       |  |               |  |  |  |
| Gravity & Magnetic Parameters      |  |             |  |                                        |  |                     |  | Surface Location        |  |                        |  | NAD83 New Mexico State Plane, Eastern Zone, US Feet |  |                                       |  | Miscellaneous |  |  |  |
| Model: IFR1                        |  | Dip: 59.98° |  | Date: 24-Dec-2020                      |  | Lat: N 32 15 59.78  |  | Northing: 461098.4HUS   |  | Grid Conv: 0.272°      |  | Slot: 18 Federal Com                                |  | TVD Ref: RKB = 25(3371.8ft above MSL) |  |               |  |  |  |
| MagDec: 6.924°                     |  | FS: 47793nT |  | Gravity FS: 998.451mgn (9.80665 Based) |  | Lon: W 103 49 25.90 |  | Easting: 698809.8HUS    |  | Scale Fact: 0.99993749 |  | Plan: Oxy Precious 30-18 Federal Com 1H ST01        |  | MWD 9456.50' to 23204' MD             |  |               |  |  |  |

| Critical Points             |          |       |        |          |          |           |           |
|-----------------------------|----------|-------|--------|----------|----------|-----------|-----------|
| Critical Point              | MD       | INCL  | AZIM   | TVD      | VSEC     | N(°)/S(-) | E(°)/W(-) |
| Tie-In to OH                | 9456.50  | 8.55  | 329.70 | 9420.73  | 424.29   | 402.93    | -132.94   |
| Bonespring 2nd Intersection | 9636.77  | 23.51 | 307.07 | 9592.50  | 473.81   | 444.23    | -165.57   |
| 100' FSL Crossed            | 10074.00 | 56.78 | 7.84   | 9935.01  | 706.62   | 668.96    | -227.64   |
| Exit Target Box             | 11248.00 | 91.18 | 2.68   | 10070.85 | 1772.23  | 1809.09   | -178.47   |
| Enter Target Box            | 11516.00 | 91.20 | 358.54 | 10065.49 | 2026.42  | 2076.90   | -179.14   |
| Exit Target Box             | 19375.00 | 90.02 | 1.30   | 10048.61 | 9482.99  | 9928.12   | -214.05   |
| Enter Target Box            | 19877.00 | 89.11 | 356.78 | 10052.79 | 9959.46  | 10429.85  | -216.15   |
| 100' FNL Crossed            | 23126.00 | 90.72 | 1.82   | 10035.35 | 13056.06 | 13676.80  | -271.13   |
| Final MWD                   | 23173.00 | 91.06 | 1.56   | 10034.62 | 13100.17 | 13723.77  | -269.74   |
| Proj to TD                  | 23204.00 | 91.06 | 1.56   | 10034.05 | 13129.28 | 13754.75  | -268.90   |



Schlumberger



# Oxy Precious 30-18 Federal Com 1H ST01 MWD 9456.50' to 23204' MD Survey Geodetic Report (Def Survey)

**Report Date:** January 04, 2021 - 03:09 PM  
**Client:** OXY  
**Field:** NM Eddy County (NAD 83)  
**Structure / Slot:** Oxy Precious 30-18 Federal Com 1H / Oxy Precious 30-18 Federal Com 1H  
**Well:** Oxy Precious 30-18 Federal Com 1H  
**Borehole:** Precious 30-18 Federal Com 1H ST01  
**UWI / API#:** Unknown / 30-015-46373  
**Survey Name:** Oxy Precious 30-18 Federal Com 1H ST01 MWD 9456.50' to 23204' MD  
**Survey Date:** November 17, 2020  
**Tort / AHD / DDI / ERD Ratio:** 308.541' / 13870.425 ft / 6.994 / 1.376  
**Coordinate Reference System:** NAD83 New Mexico State Plane, Eastern Zone, US Feet  
**Location Lat / Long:** N 32° 15' 59.78461", W 103° 49' 25.90247"  
**Location Grid N/E Y/X:** N 461098.400 RUS, E 698809.800 RUS  
**CRS Grid Convergence Angle:** 0.2720 °  
**Grid Scale Factor:** 0.99993749  
**Version / Patch:** 2.10.824.0

**Survey / DLS Computation:** Minimum Curvature / Lubinski  
**Vertical Section Azimuth:** 341.500 ° (Grid North)  
**Vertical Section Origin:** 0.000 ft, 0.000 ft  
**TVD Reference Datum:** RKB = 25  
**TVD Reference Elevation:** 3371.800 ft above MSL  
**Seabed / Ground Elevation:** 3346.800 ft above MSL  
**Magnetic Declination:** 6.924 °  
**Total Gravity Field Strength:** 998.4515mgn (9.80665 Based)  
**Gravity Model:** GARM  
**Total Magnetic Field Strength:** 47793.000 nT  
**Magnetic Dip Angle:** 59.980 °  
**Declination Date:** December 24, 2020  
**Magnetic Declination Model:** IFR1  
**North Reference:** Grid North  
**Grid Convergence Used:** 0.2700 °  
**Total Corr Mag North->Grid North:** 6.6540 °  
**Local Coord Referenced To:** Well Head

| Comments          | MD<br>(ft) | Incl<br>(°) | Azim Grid<br>(°) | TVD<br>(ft) | VSEC<br>(ft) | NS<br>(ft) | EW<br>(ft) | DLS<br>(°/100ft) | Closure<br>(ft) | Closure<br>Azimuth<br>(°) | 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                      | 461098.40          | 698809.80         | N 32 15 59.78           | W 103 49 25.90           |
| SHL               | 25.00      | 0.00        | 0.00             | 25.00       | 0.00         | 0.00       | 0.00       | 0.00             | 0.00            | 0.00                      | 461098.40          | 698809.80         | N 32 15 59.78           | W 103 49 25.90           |
| First Gyro Survey | 97.00      | 0.11        | 31.75            | 97.00       | 0.04         | 0.06       | 0.04       | 0.15             | 0.07            | 31.75                     | 461098.46          | 698809.84         | N 32 15 59.79           | W 103 49 25.90           |
|                   | 184.00     | 0.29        | 97.88            | 184.00      | 0.00         | 0.10       | 0.30       | 0.30             | 0.31            | 71.54                     | 461098.50          | 698810.10         | N 32 15 59.79           | W 103 49 25.90           |
|                   | 266.00     | 0.52        | 95.53            | 266.00      | -0.24        | 0.04       | 0.87       | 0.28             | 0.88            | 87.69                     | 461098.44          | 698810.67         | N 32 15 59.78           | W 103 49 25.89           |
|                   | 360.00     | 0.75        | 100.65           | 359.99      | -0.72        | -0.12      | 1.80       | 0.25             | 1.91            | 93.59                     | 461098.28          | 698811.70         | N 32 15 59.78           | W 103 49 25.88           |
| Last Gyro Survey  | 458.00     | 0.48        | 124.82           | 457.99      | -1.36        | -0.47      | 2.87       | 0.38             | 2.91            | 99.35                     | 461097.93          | 698812.67         | N 32 15 59.78           | W 103 49 25.87           |
| First MWD Survey  | 590.50     | 0.18        | 326.43           | 590.48      | -1.60        | -0.62      | 3.21       | 0.49             | 3.27            | 100.86                    | 461097.78          | 698813.01         | N 32 15 59.78           | W 103 49 25.87           |
|                   | 682.50     | 0.10        | 204.70           | 682.48      | -1.52        | -0.57      | 3.10       | 0.27             | 3.15            | 100.40                    | 461097.83          | 698812.90         | N 32 15 59.78           | W 103 49 25.87           |
|                   | 772.50     | 0.11        | 136.67           | 772.48      | -1.66        | -0.70      | 3.12       | 0.13             | 3.20            | 102.67                    | 461097.70          | 698812.92         | N 32 15 59.78           | W 103 49 25.87           |
|                   | 863.50     | 0.16        | 81.42            | 863.48      | -1.76        | -0.75      | 3.31       | 0.15             | 3.39            | 102.72                    | 461097.65          | 698813.11         | N 32 15 59.78           | W 103 49 25.86           |
|                   | 954.50     | 0.26        | 271.35           | 954.48      | -1.76        | -0.73      | 3.39       | 0.24             | 3.47            | 102.11                    | 461097.67          | 698813.19         | N 32 15 59.78           | W 103 49 25.86           |
|                   | 1046.50    | 0.11        | 299.66           | 1046.48     | -1.68        | -0.68      | 3.26       | 0.07             | 3.33            | 101.81                    | 461097.72          | 698813.06         | N 32 15 59.78           | W 103 49 25.86           |
|                   | 1138.50    | 0.10        | 217.26           | 1138.48     | -1.66        | -0.70      | 3.14       | 0.15             | 3.22            | 102.62                    | 461097.70          | 698812.94         | N 32 15 59.78           | W 103 49 25.87           |
|                   | 1231.50    | 0.14        | 63.80            | 1231.48     | -1.69        | -0.72      | 3.19       | 0.25             | 3.27            | 102.66                    | 461097.68          | 698812.99         | N 32 15 59.78           | W 103 49 25.87           |
|                   | 1322.50    | 0.11        | 112.36           | 1322.48     | -1.73        | -0.73      | 3.37       | 0.12             | 3.44            | 101.75                    | 461097.70          | 698813.17         | N 32 15 59.78           | W 103 49 25.86           |
|                   | 1413.50    | 0.14        | 0.73             | 1413.48     | -1.69        | -0.62      | 3.45       | 0.23             | 3.51            | 100.23                    | 461097.78          | 698813.25         | N 32 15 59.78           | W 103 49 25.86           |
|                   | 1508.50    | 0.10        | 285.57           | 1508.48     | -1.53        | -0.48      | 3.37       | 0.16             | 3.41            | 98.18                     | 461097.92          | 698813.17         | N 32 15 59.78           | W 103 49 25.86           |
|                   | 1602.50    | 0.06        | 4.49             | 1602.48     | -1.44        | -0.41      | 3.30       | 0.11             | 3.33            | 97.15                     | 461097.99          | 698813.10         | N 32 15 59.78           | W 103 49 25.86           |
|                   | 1697.50    | 0.04        | 137.63           | 1697.48     | -1.42        | -0.39      | 3.33       | 0.10             | 3.35            | 96.67                     | 461098.01          | 698813.13         | N 32 15 59.78           | W 103 49 25.86           |
|                   | 1792.50    | 0.11        | 41.70            | 1792.48     | -1.41        | -0.35      | 3.41       | 0.13             | 3.43            | 95.78                     | 461098.05          | 698813.21         | N 32 15 59.78           | W 103 49 25.86           |
|                   | 1887.50    | 0.16        | 6.20             | 1887.48     | -1.24        | -0.15      | 3.48       | 0.10             | 3.49            | 92.39                     | 461098.25          | 698813.28         | N 32 15 59.78           | W 103 49 25.86           |
|                   | 1981.50    | 0.04        | 200.01           | 1981.48     | -1.15        | -0.04      | 3.48       | 0.21             | 3.48            | 90.71                     | 461098.36          | 698813.28         | N 32 15 59.78           | W 103 49 25.86           |
|                   | 2076.50    | 0.11        | 89.86            | 2076.48     | -1.20        | -0.07      | 3.56       | 0.14             | 3.56            | 91.16                     | 461098.33          | 698813.36         | N 32 15 59.78           | W 103 49 25.86           |
|                   | 2171.50    | 0.06        | 179.13           | 2171.48     | -1.27        | -0.12      | 3.65       | 0.13             | 3.65            | 91.91                     | 461098.28          | 698813.45         | N 32 15 59.78           | W 103 49 25.86           |
|                   | 2266.50    | 0.11        | 93.66            | 2266.48     | -1.36        | -0.18      | 3.74       | 0.13             | 3.75            | 92.71                     | 461098.22          | 698813.54         | N 32 15 59.78           | W 103 49 25.86           |
|                   | 2360.50    | 0.10        | 327.45           | 2360.48     | -1.31        | -0.11      | 3.79       | 0.20             | 3.79            | 91.72                     | 461098.29          | 698813.59         | N 32 15 59.78           | W 103 49 25.86           |
|                   | 2455.50    | 0.11        | 340.44           | 2455.48     | -1.14        | 0.04       | 3.71       | 0.03             | 3.71            | 89.35                     | 461098.44          | 698813.51         | N 32 15 59.78           | W 103 49 25.86           |
|                   | 2550.50    | 0.06        | 136.86           | 2550.48     | -1.09        | 0.09       | 3.72       | 0.18             | 3.72            | 88.59                     | 461098.49          | 698813.52         | N 32 15 59.78           | W 103 49 25.86           |
|                   | 2645.50    | 0.11        | 76.64            | 2645.48     | -1.15        | 0.08       | 3.84       | 0.10             | 3.84            | 88.86                     | 461098.48          | 698813.64         | N 32 15 59.78           | W 103 49 25.86           |
|                   | 2740.50    | 0.06        | 336.52           | 2740.48     | -1.10        | 0.14       | 3.91       | 0.14             | 3.91            | 87.90                     | 461098.54          | 698813.71         | N 32 15 59.79           | W 103 49 25.86           |
|                   | 2834.50    | 0.11        | 118.50           | 2834.48     | -1.12        | 0.15       | 3.97       | 0.17             | 3.97            | 87.90                     | 461098.55          | 698813.77         | N 32 15 59.79           | W 103 49 25.86           |
|                   | 2929.50    | 0.10        | 226.66           | 2929.48     | -1.22        | 0.04       | 3.99       | 0.18             | 3.99            | 89.36                     | 461098.44          | 698813.79         | N 32 15 59.78           | W 103 49 25.86           |
|                   | 3024.50    | 0.11        | 105.89           | 3024.48     | -1.31        | 0.01       | 4.01       | 0.19             | 4.01            | 90.53                     | 461098.36          | 698813.81         | N 32 15 59.78           | W 103 49 25.86           |
|                   | 3119.50    | 0.17        | 238.78           | 3119.48     | -1.39        | -0.14      | 3.98       | 0.27             | 3.98            | 91.94                     | 461098.26          | 698813.78         | N 32 15 59.78           | W 103 49 25.86           |
|                   | 3213.50    | 0.05        | 140.64           | 3213.48     | -1.46        | -0.24      | 3.89       | 0.20             | 3.90            | 93.52                     | 461098.16          | 698813.69         | N 32 15 59.78           | W 103 49 25.86           |
|                   | 3308.50    | 0.35        | 117.01           | 3308.48     | -1.71        | -0.40      | 4.17       | 0.32             | 4.19            | 95.52                     | 461098.00          | 698813.97         | N 32 15 59.78           | W 103 49 25.85           |
|                   | 3403.50    | 0.13        | 139.05           | 3403.48     | -2.01        | -0.62      | 4.50       | 0.25             | 4.54            | 97.79                     | 461097.78          | 698814.30         | N 32 15 59.78           | W 103 49 25.85           |
|                   | 3497.50    | 0.04        | 105.87           | 3497.48     | -2.13        | -0.71      | 4.60       | 0.11             | 4.66            | 98.72                     | 461097.69          | 698814.40         | N 32 15 59.78           | W 103 49 25.85           |
|                   | 3592.50    | 0.30        | 182.74           | 3592.48     | -2.36        | -0.96      | 4.62       | 0.31             | 4.72            | 101.77                    | 461097.44          | 698814.42         | N 32 15 59.77           | W 103 49 25.85           |
|                   | 3687.50    | 0.61        | 200.56           | 3687.48     | -3.00        | -1.69      | 4.43       | 0.35             | 4.74            | 110.81                    | 461096.72          | 698814.23         | N 32 15 59.77           | W 103 49 25.85           |
|                   | 3782.50    | 0.21        | 118.87           | 3782.47     | -3.53        | -2.24      | 4.41       | 0.65             | 4.95            | 116.96                    | 461096.16          | 698814.21         | N 32 15 59.76           | W 103 49 25.85           |
|                   | 3877.50    | 0.21        | 140.41           | 3877.47     | -3.82        | -2.46      | 4.67       | 0.08             | 5.28            | 117.78                    | 461095.94          | 698814.47         | N 32 15 59.76           | W 103 49 25.85           |
|                   | 3949.50    | 0.57        | 175.02           | 3949.47     | -4.29        | -2.92      | 4.79       | 0.58             | 5.61            | 121.38                    | 461095.48          | 698814.59         | N 32 15 59.76           | W 103 49 25.85           |
|                   | 4149.50    | 0.14        | 54.57            | 4149.47     | -5.44        | -4.04      | 4.57       | 0.26             | 6.49            | 126.47                    | 461094.86          | 698814.36         | N 32 15 59.74           | W 103 49 25.84           |
|                   | 4245.50    | 0.10        | 98.79            | 4245.47     | -5.57        | -4.11      | 5.26       | 0.06             | 6.68            | 128.00                    | 461094.29          | 698815.06         | N 32 15 59.74           | W 103 49 25.84           |
|                   | 4340.50    | 0.21        | 258.66           | 4340.47     | -5.59        | -4.16      | 5.18       | 0.32             | 6.64            | 128.79                    | 461094.24          | 698814.98         | N 32 15 59.74           | W 103 49 25.84           |
|                   | 4529.50    | 0.34        | 315.55           | 4529.47     | -5.04        | -3.83      | 4.44       | 0.15             | 5.86            | 130.74                    | 461094.57          | 698814.24         | N 32 15 59.75           | W 103 49 25.85           |
|                   | 4624.50    | 0.32        | 331.95           | 4624.46     | -4.55        | -3.44      | 4.06       | 0.02             | 5.32            | 130.32                    | 461094.96          | 698813.85         | N 32 15 59.75           | W 103 49 25.86           |
|                   | 4719.50    | 0.16        | 226.40           | 4719.46     | -4.37        | -3.35      | 3.77       | 0.37             | 5.04            | 131.63                    | 461095.05          | 698813.57         | N 32 15 59.75           | W 103 49 25.86           |
|                   | 4813.50    | 0.21        | 226.32           | 4813.46     | -4.50        | -3.46      | 3.55       | 0.05             | 5.03            | 135.92                    | 461094.94          | 698813.35         | N 32 15 59.75           | W 103 49 25.86           |
|                   | 4908.50    | 0.23        | 220.42           | 4908.46     | -4.67        | -3.82      | 3.30       | 0.03             | 5.05            | 139.22                    | 461094.58          | 698813.10         | N 32 15 59.75           | W 103 49 25.86           |
|                   | 5003.50    | 0.16        | 205.49           | 5003.46     | -4.87        | -4.09      | 3.12       | 0.09             | 5.14            | 142.67                    | 461094.31          | 698812.92         | N 32 15 59.74           | W 103 49 25.87           |
|                   | 5098.50    | 0.27        | 131.41           | 5098.46     | -5.16        | -4.36      | 3.23       | 0.29             | 5.42            | 143.46                    | 461094.04          | 698813.03         | N 32 15 59.74           | W 103 49 25.87           |
|                   | 5192.50    | 0.08        | 27.66            | 5192.46     | -5.30        | -4.45      | 3.43       | 0.32             | 5.61            | 142.38                    | 461093.96          | 698813.23         | N 32 15 59.74           | W 103 49 25.86           |
|                   | 5287.50    | 0.13        | 25.53            | 5287.46     | -5.18        | -4.29      | 3.50       | 0.29             | 5.54            | 140.76                    | 461094.11          | 698813.07         | N 32 15 59.74           | W 103 49 25.86           |
|                   | 5382.50    | 0.19        | 3.46             | 5382.46     | -4.96        | -4.03      | 3.56       | 0.09             | 5.38            | 138.59                    | 461094.37          | 698813.36         | N 32 15 59.74           | W 103 49 25.86           |
|                   | 5477.50    | 0.15        | 317.00           | 5477.46     | -4.70        | -3.79      | 3.48       | 0.15             | 5.14            | 137.39                    | 461094.61          | 698813.28         | N 32 15 59.75           | W 103 49 25.86           |
|                   | 5571.50    | 0.13        | 269.59           | 5571.46     | -4.55        | -3.70      | 3.29       | 0.12             | 4.95            | 138.31                    | 461094.70          | 698813.09         | N 32 15 59.75           | W 103 49 25.86           |
|                   | 5666.50    | 0.11        | 231.88           | 5666.46     | -4.55        | -3.75      | 3.11       | 0.08             | 4.88            | 140.34                    | 461094.65          | 698812.91         | N 32 15 59.75           | W 103 49 25.87           |
|                   | 5761.50    | 0.08        | 310.25           | 5761.46     | -4.52        | -3.77      | 2.99       | 0.13             | 4.81            | 141.56                    | 461094.63          | 698812.79         | N 32 15 59.75           | W 103 49 25.87           |
|                   | 5856.50    | 0.21        | 275.17           | 5856.46     | -4.39        | -3.71      | 2.77       | 0.16             | 4.63            | 143.27                    | 461094.69          | 698812.67         | N 32 15 59.75           | W 103 49 25.87           |
|                   | 5951.50    | 0.29        | 282.57           | 5951.46     | -4.20        | -3.64      | 2.36       | 0.09             | 4.34            | 147.08                    | 461094.76          | 698812.16         | N 32 15 59.75           | W 103 49 25.88           |
|                   | 6045.50    | 0.22        | 297.30           | 6045.46     | -3.95        | -3.51      | 1.96       | 0.10             | 4.02            | 150.77                    | 461094.89          | 698811.76         | N 32 15 59.75           | W 103 49 25.88           |
|                   | 6140.50    | 0.09        | 324.57           | 6140.46     | -3.75        | -3.37      | 1.76       | 0.15             | 3.80            | 152.41                    | 461095.03          | 698811.56         | N 32 15 59.75           | W 103 49 25.88           |
|                   | 6235.50    | 0.09        | 339.73           | 6235.46     | -3.61        | -3.24      | 1.69       | 0.02             | 3.65            | 152.42                    | 461095.1.66        |                   |                         |                          |

| 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>(RUS) | Easting<br>(RUS) | Latitude<br>(N/S ° ' '') | Longitude<br>(E/W ° ' '') |
|--------------------------------|------------|-------------|------------------|-------------|--------------|------------|------------|-----------------|-----------------|---------------------------|-------------------|------------------|--------------------------|---------------------------|
| Bonespring 2nd<br>Intersection | 9636.77    | 23.51       | 307.07           | 9592.50     | 473.81       | 444.23     | -165.57    | 9.90            | 474.08          | 339.56                    | 461542.60         | 698644.24        | N 32 16 4.19             | W 103 49 27.81            |
|                                | 9694.00    | 28.00       | 299.09           | 9644.05     | 493.16       | 457.65     | -186.44    | 9.90            | 494.17          | 337.83                    | 461556.02         | 698623.37        | N 32 16 4.32             | W 103 49 28.05            |
|                                | 9787.00    | 27.46       | 313.02           | 9726.46     | 528.16       | 482.92     | -221.23    | 6.98            | 531.18          | 335.39                    | 461581.29         | 698588.59        | N 32 16 4.57             | W 103 49 28.45            |
|                                | 9885.00    | 39.32       | 354.36           | 9809.17     | 579.10       | 529.98     | -241.12    | 25.58           | 582.26          | 335.54                    | 461628.35         | 698568.70        | N 32 16 5.04             | W 103 49 28.68            |
|                                | 9980.00    | 48.25       | 9.01             | 9877.86     | 640.16       | 595.24     | -238.51    | 14.17           | 641.25          | 338.16                    | 461693.60         | 698571.30        | N 32 16 5.69             | W 103 49 28.65            |
| 100' FSL Crossed               | 10074.00   | 56.78       | 7.84             | 9935.01     | 706.62       | 668.96     | -227.64    | 9.13            | 706.63          | 341.21                    | 461767.32         | 698582.18        | N 32 16 6.41             | W 103 49 28.52            |
|                                | 10168.00   | 61.46       | 4.80             | 9983.25     | 779.83       | 749.11     | -218.81    | 5.70            | 780.42          | 343.72                    | 461847.47         | 698591.00        | N 32 16 7.21             | W 103 49 28.41            |
|                                | 10262.00   | 62.97       | 358.15           | 10027.11    | 857.94       | 832.18     | -216.71    | 6.46            | 859.93          | 345.40                    | 461930.53         | 698593.10        | N 32 16 8.03             | W 103 49 28.38            |
|                                | 10356.00   | 77.05       | 353.08           | 10059.18    | 943.40       | 919.99     | -223.62    | 15.81           | 946.77          | 346.34                    | 462018.33         | 698586.20        | N 32 16 8.90             | W 103 49 28.46            |
|                                | 10450.00   | 88.41       | 3.29             | 10071.09    | 1012.91      | 1050.99    | -226.46    | 16.19           | 1047.91         | 347.40                    | 462104.22         | 698583.36        | N 32 16 9.62             | W 103 49 28.48            |
|                                | 10508.00   | 90.01       | 4.37             | 10071.89    | 1086.06      | 1070.77    | -222.58    | 3.33            | 1093.66         | 348.26                    | 462169.10         | 698587.23        | N 32 16 10.39            | W 103 49 28.44            |
|                                | 10650.00   | 91.61       | 4.34             | 10069.88    | 1216.90      | 1212.34    | -211.80    | 1.13            | 1230.70         | 350.09                    | 462310.66         | 698598.01        | N 32 16 11.79            | W 103 49 28.30            |
|                                | 10743.00   | 90.91       | 3.96             | 10067.83    | 1302.70      | 1305.08    | -205.07    | 0.86            | 1321.09         | 351.07                    | 462403.39         | 698604.74        | N 32 16 12.71            | W 103 49 28.22            |
|                                | 10836.00   | 90.10       | 1.67             | 10067.01    | 1389.33      | 1397.95    | -200.51    | 2.61            | 1412.26         | 351.84                    | 462496.26         | 698609.31        | N 32 16 13.63            | W 103 49 28.16            |
|                                | 10929.00   | 87.27       | 1.23             | 10069.15    | 1476.72      | 1490.89    | -198.15    | 3.08            | 1504.00         | 352.43                    | 462589.19         | 698611.66        | N 32 16 14.55            | W 103 49 28.13            |
|                                | 11021.00   | 86.36       | 3.12             | 10072.83    | 1562.72      | 1582.74    | -194.67    | 2.26            | 1594.67         | 352.99                    | 462681.04         | 698615.15        | N 32 16 15.45            | W 103 49 28.08            |
|                                | 11113.00   | 90.95       | 5.83             | 10073.56    | 1647.40      | 1674.44    | -187.49    | 4.24            | 1684.91         | 353.61                    | 462772.73         | 698622.32        | N 32 16 16.36            | W 103 49 27.99            |
|                                | 11206.00   | 91.28       | 2.81             | 10071.75    | 1733.10      | 1767.15    | -180.48    | 3.27            | 1776.34         | 354.17                    | 462865.44         | 698629.33        | N 32 16 17.28            | W 103 49 27.91            |
| Exit Target Box                | 11248.00   | 91.18       | 2.68             | 10070.85    | 1772.23      | 1809.09    | -178.47    | 0.38            | 1817.87         | 354.37                    | 462907.38         | 698631.34        | N 32 16 17.69            | W 103 49 27.85            |
|                                | 11298.00   | 91.07       | 2.53             | 10069.87    | 1818.87      | 1859.03    | -176.20    | 0.38            | 1867.36         | 354.59                    | 462957.31         | 698633.61        | N 32 16 18.19            | W 103 49 27.88            |
|                                | 11390.00   | 91.03       | 358.10           | 10068.18    | 1905.97      | 1950.99    | -175.21    | 4.16            | 1958.84         | 354.87                    | 463049.27         | 698634.60        | N 32 16 19.16            | W 103 49 27.84            |
| Enter Target Box               | 11483.00   | 91.37       | 357.77           | 10066.23    | 1994.81      | 2043.93    | -178.08    | 1.06            | 2051.67         | 355.02                    | 463142.19         | 698631.74        | N 32 16 20.02            | W 103 49 27.86            |
|                                | 11516.00   | 91.20       | 358.54           | 10065.49    | 2026.42      | 2076.90    | -179.14    | 2.39            | 2084.61         | 355.07                    | 463175.17         | 698630.67        | N 32 16 20.34            | W 103 49 27.87            |
|                                | 11576.00   | 90.90       | 359.94           | 10064.39    | 2083.55      | 2136.88    | -179.93    | 2.39            | 2144.45         | 355.19                    | 463235.15         | 698629.88        | N 32 16 20.94            | W 103 49 27.89            |
|                                | 11669.00   | 91.04       | 358.04           | 10062.82    | 2172.24      | 2229.85    | -181.57    | 2.05            | 2237.23         | 355.34                    | 463328.11         | 698628.24        | N 32 16 21.86            | W 103 49 27.88            |
|                                | 11761.00   | 90.71       | 356.94           | 10061.41    | 2260.66      | 2321.75    | -185.60    | 1.25            | 2329.16         | 355.63                    | 463420.00         | 698624.21        | N 32 16 22.77            | W 103 49 27.94            |
|                                | 11853.00   | 91.06       | 358.28           | 10059.99    | 2349.04      | 2413.66    | -187.73    | 1.51            | 2421.08         | 355.51                    | 463511.90         | 698620.37        | N 32 16 23.68            | W 103 49 27.98            |
|                                | 11946.00   | 91.13       | 358.50           | 10058.21    | 2438.01      | 2506.60    | -192.05    | 0.25            | 2513.95         | 355.42                    | 463604.84         | 698617.76        | N 32 16 24.60            | W 103 49 28.00            |
|                                | 12039.00   | 90.87       | 356.57           | 10056.59    | 2526.92      | 2599.56    | -194.43    | 0.29            | 2606.82         | 355.72                    | 463697.79         | 698615.39        | N 32 16 25.52            | W 103 49 28.05            |
|                                | 12132.00   | 91.42       | 358.44           | 10054.73    | 2615.83      | 2692.51    | -196.85    | 0.61            | 2699.70         | 355.82                    | 463790.74         | 698612.96        | N 32 16 26.44            | W 103 49 28.02            |
|                                | 12224.00   | 90.64       | 359.24           | 10053.08    | 2703.64      | 2784.47    | -198.72    | 1.21            | 2791.56         | 355.92                    | 463882.69         | 698611.10        | N 32 16 27.35            | W 103 49 28.08            |
|                                | 12317.00   | 90.59       | 359.05           | 10051.69    | 2877.46      | 2972.26    | -200.10    | 1.42            | 2884.41         | 356.02                    | 463975.57         | 698609.71        | N 32 16 28.27            | W 103 49 28.05            |
|                                | 12410.00   | 90.25       | 359.91           | 10051.88    | 2980.71      | 2970.45    | -200.95    | 0.93            | 2977.24         | 356.13                    | 464068.66         | 698608.87        | N 32 16 29.19            | W 103 49 28.06            |
|                                | 12503.00   | 89.77       | 0.58             | 10051.87    | 2968.78      | 3063.45    | -200.55    | 0.89            | 3070.01         | 356.25                    | 464161.66         | 698609.26        | N 32 16 30.11            | W 103 49 28.07            |
|                                | 12595.00   | 89.39       | 0.25             | 10052.54    | 3055.81      | 3155.45    | -199.88    | 0.55            | 3161.77         | 356.38                    | 464253.64         | 698609.93        | N 32 16 31.02            | W 103 49 28.06            |
|                                | 12688.00   | 89.48       | 359.00           | 10053.38    | 3144.19      | 3248.44    | -200.49    | 1.36            | 3254.62         | 356.47                    | 464346.63         | 698609.32        | N 32 16 31.94            | W 103 49 28.06            |
|                                | 12780.00   | 89.57       | 358.88           | 10054.14    | 3231.96      | 3340.42    | -202.19    | 1.18            | 3346.54         | 356.54                    | 464438.61         | 698607.62        | N 32 16 32.85            | W 103 49 28.07            |
|                                | 12873.00   | 89.98       | 358.40           | 10054.67    | 3320.83      | 3433.39    | -204.40    | 0.88            | 3439.47         | 356.64                    | 464530.51         | 698605.71        | N 32 16 33.77            | W 103 49 28.09            |
|                                | 12965.00   | 89.65       | 357.95           | 10055.05    | 3408.96      | 3525.35    | -207.33    | 0.55            | 3531.44         | 356.63                    | 464623.52         | 698602.48        | N 32 16 34.68            | W 103 49 28.12            |
|                                | 13059.00   | 89.87       | 358.25           | 10055.44    | 3499.04      | 3619.29    | -210.45    | 0.40            | 3625.41         | 356.67                    | 464717.46         | 698599.37        | N 32 16 35.61            | W 103 49 28.15            |
|                                | 13152.00   | 90.28       | 358.45           | 10055.32    | 3588.04      | 3712.25    | -213.13    | 0.49            | 3718.37         | 356.71                    | 464810.41         | 698596.69        | N 32 16 36.53            | W 103 49 28.18            |
|                                | 13245.00   | 89.62       | 357.70           | 10055.40    | 3677.18      | 3805.20    | -216.25    | 1.07            | 3811.34         | 356.75                    | 464903.35         | 698593.56        | N 32 16 37.45            | W 103 49 28.21            |
|                                | 13338.00   | 89.35       | 357.67           | 10055.99    | 3766.09      | 3895.09    | -220.72    | 0.38            | 3904.33         | 356.76                    | 465000.24         | 698589.10        | N 32 16 38.37            | W 103 49 28.24            |
|                                | 13431.00   | 89.63       | 355.96           | 10056.58    | 3856.87      | 3990.90    | -226.60    | 0.89            | 3997.33         | 356.85                    | 465098.04         | 698585.36        | N 32 16 39.29            | W 103 49 28.32            |
|                                | 13523.00   | 89.71       | 355.70           | 10057.11    | 3945.70      | 4082.66    | -233.29    | 0.30            | 4089.32         | 356.73                    | 465190.79         | 698587.53        | N 32 16 40.19            | W 103 49 28.39            |
|                                | 13616.00   | 89.79       | 356.32           | 10057.51    | 4035.74      | 4175.43    | -239.76    | 0.67            | 4182.31         | 356.71                    | 465273.56         | 698587.06        | N 32 16 41.11            | W 103 49 28.46            |
|                                | 13711.00   | 89.51       | 357.57           | 10058.09    | 4127.30      | 4270.29    | -244.82    | 1.35            | 4277.30         | 356.72                    | 465368.42         | 698586.99        | N 32 16 42.05            | W 103 49 28.52            |
|                                | 13804.00   | 89.62       | 359.83           | 10058.80    | 4216.13      | 4363.26    | -246.93    | 0.43            | 4370.24         | 356.76                    | 465461.38         | 698586.88        | N 32 16 42.97            | W 103 49 28.54            |
|                                | 13899.00   | 90.73       | 1.63             | 10059.24    | 4306.84      | 4458.24    | -245.73    | 1.89            | 4465.01         | 356.79                    | 465554.09         | 698586.99        | N 32 16 43.88            | W 103 49 28.52            |
|                                | 13993.00   | 89.27       | 2.06             | 10059.34    | 4393.97      | 4552.20    | -242.71    | 0.74            | 4558.66         | 356.95                    | 465650.30         | 698587.10        | N 32 16 44.84            | W 103 49 28.48            |
|                                | 14088.00   | 90.25       | 3.35             | 10058.91    | 4482.53      | 4647.09    | -238.23    | 1.36            | 4653.19         | 357.07                    | 465745.19         | 698587.59        | N 32 16 45.78            | W 103 49 28.42            |
|                                | 14182.00   | 90.51       | 4.21             | 10058.28    | 4569.51      | 4740.88    | -232.03    | 0.96            | 4746.55         | 357.20                    | 465838.97         | 698587.78        | N 32 16 46.71            | W 103 49 28.34            |
|                                | 14277.00   | 89.80       | 3.68             | 10058.03    | 4657.32      | 4835.65    | -225.50    | 0.93            | 4840.91         | 357.33                    | 465933.74         | 698588.32        | N 32 16 47.64            | W 103 49 28.26            |
|                                | 14371.00   | 89.94       | 3.74             | 10057.48    | 4744.34      | 4929.45    | -219.41    | 1.13            | 4934.43         | 357.45                    | 466027.54         | 698590.40        | N 32 16 48.57            | W 103 49 28.19            |
|                                | 14466.00   | 89.80       | 3.07             | 10056.82    | 4832.48      | 5024.28    | -213.77    | 1.20            | 5028.85         | 357.56                    | 466122.36         | 698590.67        | N 32 16 49.47            | W 103 49 28.11            |
|                                | 14560.00   | 90.02       | 2.52             | 10056.85    | 4920.06      | 5118.17    | -209.19    | 0.59            | 5122.44         | 357.66                    | 466216.24         | 698600.63        | N 32 16 50.44            | W 103 49 28.06            |
|                                | 14654.00   | 89.95       | 2.09             | 10056.88    | 5007.93      | 5212.09    | -205.41    | 0.46            | 5216.14         | 357.74                    | 466310.16         | 698604.01        | N 32 16 51.37            | W 103 49 28.01            |
|                                | 14749.00   | 90.09       | 1.68             | 10056.85    | 5096.98      | 5307.04    | -202.28    | 0.84            | 5310.90         | 357.82                    | 466405.10         | 698607.53        | N 32 16 52.31            | W 103 49 27.97            |
|                                | 14843.00   | 90.24       | 1.43             | 10056.57    | 5185.28      | 5401.01    | -199.73    | 0.31            | 5404.70         | 357.88                    | 466499.06         | 698610.08        | N 32 16 53.24            | W 103 49 27.93            |
|                                | 14938.00   | 90.35       | 1.41             | 10056.09    | 5274.59      | 5496.98    | -196.42    | 0.12            | 5498.52         | 357.94                    | 466594.02         | 698612.44        | N 32 16 54.16            | W 103 49 27.89            |
|                                | 15032.00   | 90.06       | 0.73             | 10055.75    | 5363.16      | 5589.96    | -195.62    | 0.79            | 5593.38         | 358.00                    | 466688.00         | 698614.19        | N 32 16 55.11            | W 103 49 27.87            |
|                                | 15127.00   | 89.23       | 359.39           | 10056.34    | 5453.22      | 5684.95    | -195.62    | 1.66            | 5688.31         | 358.03                    | 466782.99         | 698614.29        | N 32 16 56.05            | W 103 49 27.87            |
|                                | 15221.00   | 89.94       | 357.12           | 10057.02    | 5543.22      | 5778.90    | -198.39    | 2.53            | 5782.30         | 358.03                    | 466876.93         | 698611.43        | N 32 16 56.98            | W 103 49 27.89            |
|                                | 15316.00   | 89.79       | 356.06           | 10057.24    | 5634.94      | 5873.73    | -204.04    | 1.13            | 5877.27         | 358.01                    | 466971.75         | 698605.78        | N 32 16 57.91            | W 103 49 27.95            |
|                                | 15410.00   | 89.58       | 356.14           | 10057.76    | 5725.90      | 5967.51    | -210.43    | 0.27            | 5970.22         | 357.98                    | 467065.53         | 6985             |                          |                           |

| 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 ° ' ") |
|------------------|------------|-------------|------------------|-------------|--------------|------------|------------|------------------|-----------------|---------------------------|--------------------|-------------------|-------------------------|--------------------------|
|                  | 22016.00   | 90.63       | 358.23           | 10040.94    | 11999.76     | 12567.74   | -256.76    | 0.35             | 12570.37        | 358.83                    | 4739665.33         | 698553.05         | N 32 18 4.15            | W 103 49 28.20           |
|                  | 22111.00   | 89.97       | 357.08           | 10040.45    | 12091.01     | 12662.66   | -260.65    | 1.40             | 12665.34        | 358.82                    | 4737670.24         | 698549.17         | N 32 18 5.09            | W 103 49 28.24           |
|                  | 22205.00   | 90.20       | 356.83           | 10040.31    | 12181.61     | 12756.53   | -265.64    | 0.36             | 12759.29        | 358.81                    | 473854.11          | 698544.17         | N 32 18 6.02            | W 103 49 28.29           |
|                  | 22300.00   | 90.13       | 356.77           | 10040.03    | 12273.24     | 12851.38   | -270.95    | 0.10             | 12854.24        | 358.79                    | 473948.95          | 698538.87         | N 32 18 6.96            | W 103 49 28.35           |
|                  | 22394.00   | 90.29       | 357.24           | 10039.69    | 12363.82     | 12945.25   | -275.86    | 0.53             | 12948.19        | 358.78                    | 474042.82          | 698533.96         | N 32 18 7.89            | W 103 49 28.40           |
|                  | 22488.00   | 90.01       | 357.12           | 10039.44    | 12454.32     | 13039.14   | -280.48    | 0.32             | 13042.15        | 358.77                    | 474136.70          | 698529.33         | N 32 18 8.82            | W 103 49 28.45           |
|                  | 22583.00   | 90.83       | 358.33           | 10038.75    | 12545.53     | 13134.06   | -284.25    | 1.54             | 13137.13        | 358.76                    | 474231.61          | 698525.56         | N 32 18 9.76            | W 103 49 28.49           |
|                  | 22677.00   | 89.99       | 0.45             | 10038.07    | 12634.98     | 13228.04   | -285.26    | 2.43             | 13231.12        | 358.76                    | 474325.59          | 698524.56         | N 32 18 10.69           | W 103 49 28.49           |
|                  | 22772.00   | 90.05       | 1.67             | 10038.04    | 12724.49     | 13323.02   | -283.50    | 1.29             | 13326.04        | 358.78                    | 474420.57          | 698526.32         | N 32 18 11.63           | W 103 49 28.47           |
|                  | 22867.00   | 90.70       | 1.97             | 10037.42    | 12813.58     | 13417.97   | -280.48    | 0.75             | 13420.91        | 358.80                    | 474515.51          | 698529.34         | N 32 18 12.57           | W 103 49 28.43           |
|                  | 23055.00   | 90.21       | 2.21             | 10035.93    | 12989.56     | 13605.84   | -273.62    | 0.29             | 13608.59        | 358.85                    | 474703.36          | 698536.19         | N 32 18 14.43           | W 103 49 28.34           |
| 100' FNL Crossed | 23126.00   | 90.72       | 1.82             | 10035.35    | 13056.06     | 13676.80   | -271.13    | 0.91             | 13679.48        | 358.86                    | 474774.31          | 698538.69         | N 32 18 15.13           | W 103 49 28.30           |
| Final MWD        | 23173.00   | 91.06       | 1.56             | 10034.62    | 13100.17     | 13723.77   | -269.74    | 0.91             | 13726.42        | 358.87                    | 474821.28          | 698540.07         | N 32 18 15.59           | W 103 49 28.29           |
| Proj to TD       | 23204.00   | 91.06       | 1.56             | 10034.05    | 13129.28     | 13754.75   | -268.90    | 0.00             | 13757.38        | 358.88                    | 474852.27          | 698540.92         | N 32 18 15.90           | W 103 49 28.27           |

Survey Type: 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<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 | Pilot_RKB 25' / Oxy Precious 30-18<br>Federal Com 1H Pilot gyro + MWD<br>0-13488.5MD                        |
|             | 1    | 25.000          | 25.000        | Act Stns         | 26.400            | 26.400                  | GYD_GC+DROP+OH-Depth Only | Pilot_RKB 25' / Oxy Precious 30-18<br>Federal Com 1H Pilot gyro + MWD<br>0-13488.5MD                        |
|             | 1    | 25.000          | 458.000       | Act Stns         | 26.400            | 26.400                  | GYD_GC+DROP+OH            | Pilot_RKB 25' / Oxy Precious 30-18<br>Federal Com 1H Pilot gyro + MWD<br>Pilot_RKB 25' / Oxy Precious 30-18 |
|             | 1    | 458.000         | 9456.500      | Act Stns         | 26.400            | 26.400                  | A010Mb_MWD+IFR1+SAG+MS    | Federal Com 1H Pilot gyro + MWD<br>0-13488.5MD                                                              |
|             | 1    | 9456.500        | 9694.000      | Act Stns         | 26.400            | 26.400                  | B001Mb_MWD+HRGM           | Precious 30-18 Federal Com 1H<br>ST01 / Oxy Precious 30-18 Federal                                          |
|             | 1    | 9694.000        | 23204.000     | Act Stns         | 26.400            | 26.400                  | A010Mb_MWD+IFR1+SAG+MS    | Precious 30-18 Federal Com 1H<br>ST01 / Oxy Precious 30-18 Federal<br>Com 1H ST01 MWD 9456.50' to           |

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

**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 Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**

1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 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 22494

**ACKNOWLEDGMENTS**

|                                                                    |                                                    |
|--------------------------------------------------------------------|----------------------------------------------------|
| Operator:<br>OXY USA INC<br>P.O. Box 4294<br>Houston, TX 772104294 | OGRID:<br>16696                                    |
|                                                                    | Action Number:<br>22494                            |
|                                                                    | 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. |

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**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**

CONDITIONS  
  
Action 22494

CONDITIONS

|                                                                        |                                                        |
|------------------------------------------------------------------------|--------------------------------------------------------|
| Operator:<br><br>OXY USA INC<br>P.O. Box 4294<br>Houston, TX 772104294 | OGRID:<br><br>16696                                    |
|                                                                        | Action Number:<br><br>22494                            |
|                                                                        | Action Type:<br><br>[C-104] Completion Packet (C-104C) |

CONDITIONS

| Created By | Condition                                                                                         | Condition Date |
|------------|---------------------------------------------------------------------------------------------------|----------------|
| ksimmons   | RT C-104 EXPIRES 07/02/2021; Submit completion sundry and completion report as soon as available. | 6/9/2021       |