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

| [1] Operator name and Address | [2] OGRID Number: 16696 |
|---|---|
| OXY USA INC.<br>P.O. BOX 50250 MIDLAND, TX 79710 | [3] Reason for Filing Code/ Effective Date -<br>RT- 04/21/2021 |

| [4] API Number | [5] Pool Name | [6] Pool Code |
|---|---|---|
| 30–015-47433 | WC-015 G-08 S233135D; WOLFCAMP | 98236 |
| [7] Property Code: 326058 | [8] Property Name: Vanadium 32 State | [9] Well Number: 171H |

## II. [10] 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 | 765 | EAST | EDDY |

## [11] Bottom Hole Location FTP: 381’ FNL 696’ FWL LTP: 126’ FSL 676’ FWL

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---|---|---|---|---|---|---|---|---|---|
| M | 32 | 23S | 31E | | 20 | SOUTH | 677 | WEST | EDDY |

| [12] Lse Code | [13] Producing Method Code : | [14] Gas Connection Date: | [15] C-129 Permit Number | [16] C-129 Effective Date | [17] C-129 Expiration Date |
|---|---|---|---|---|---|
| S | F | TBD | | | |

## III. Oil and Gas Transporters

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

## IV. Well Completion Data

| [21] Spud Date | [22] Ready Date | [23] TD | [24] PBTD | [25] Perforations | [26] DHC, MC |
|---|---|---|---|---|---|
| 12/29/2020 | 04/21/2021 | 16733’M 11482’V | 16700’M 11482’V | 11847-16627’ | |

| [27] Hole Size | [28] Casing & Tubing Size | [29] Depth Set | [30] Sacks Cement |
|---|---|---|---|
| 17-1/2” | 13-3/8” | 438’ | 585 |
| 12-1/4” | 9-5/8” | 4201’ | 1257 |
| 6-3/4” | 5-1/2” | 16715’ | 500 |
| | | | |

## V. Well Test Data

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

[42] 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: NMOCD, SANTA FE

Approval Date: 06/10/2021

RT C-103 EXPIRES 07/21/2021

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr,. Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
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

| [1] API Number | [2] Pool Code | [3] Pool Name |
|---|---|---|
| 30-015-46463 | 33740 | INGLE WELLS; BONE SPRING |

| [4] Property Code | Property Name | [6] Well Number |
|---|---|---|
| 326187 | PRECIOUS 30-18 FEDERAL COM | 10H |

| [7] OGRID No. | [8] Operator Name | [9] Elevation |
|---|---|---|
| 16696 | OXY USA INC. | 3347' |

[10] Surface Location

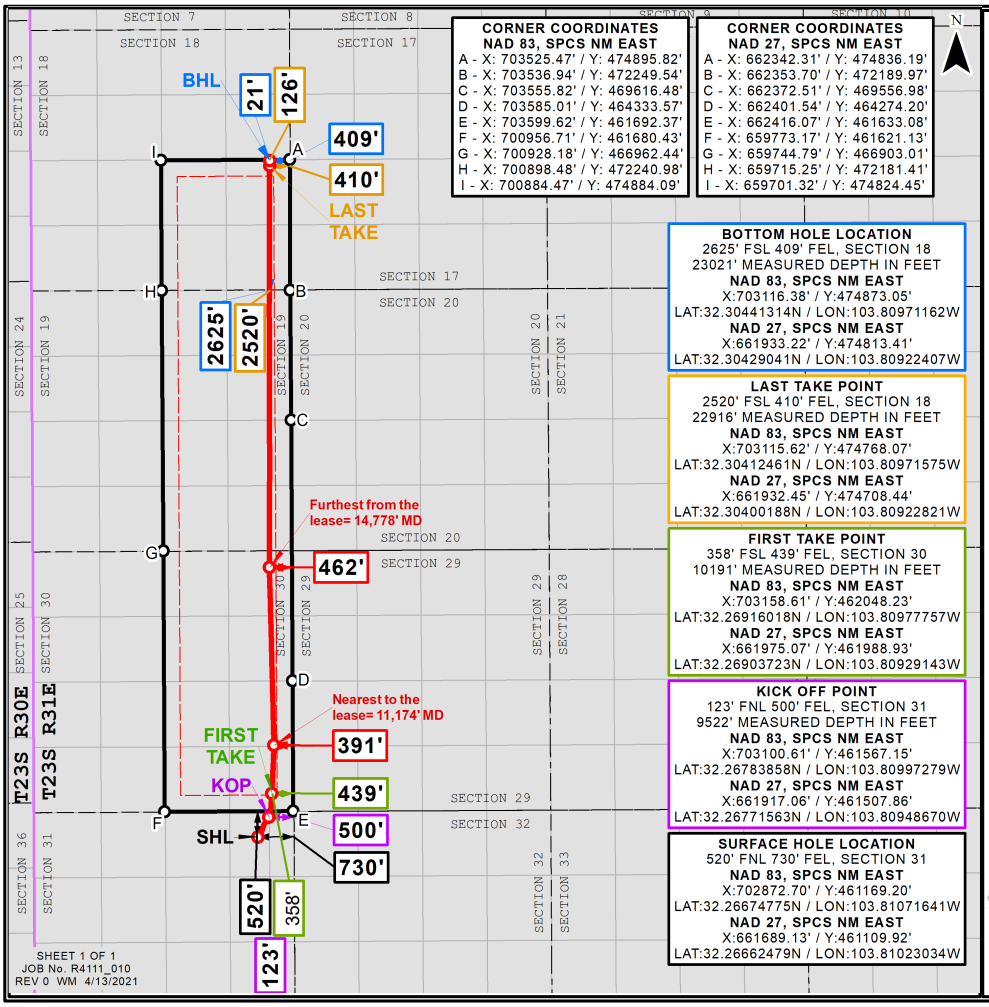
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---|---|---|---|---|---|---|---|---|---|
| A | 31 | 23S | 31E | | 520 | NORTH | 730 | EAST | EDDY |

[11] [11] 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 |
|---|---|---|---|---|---|---|---|---|---|
| I | 18 | 23S | 31E | | 2625 | SOUTH | 409 | EAST | EDDY |

| [12] Dedicated Acres | [13] Joint or Infill | [14] Consolidation Code | [15] Order No. |
|---|---|---|---|
| 800.0 | | | |

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.




**CORNER COORDINATES NAD 83, SPCS NM EAST**
A - X: 703525.47' / Y: 474895.82'
B - X: 703536.94' / Y: 472249.54'
C - X: 703555.82' / Y: 469616.48'
D - X: 703585.01' / Y: 464333.57'
E - X: 703599.62' / Y: 461692.37'
F - X: 700956.71' / Y: 461680.43'
G - X: 700928.18' / Y: 466962.44'
H - X: 700898.48' / Y: 472240.98'
I - X: 700884.47' / Y: 474884.09'

**CORNER COORDINATES NAD 27, SPCS NM EAST**
A - X: 662342.31' / Y: 474836.19'
B - X: 662353.70' / Y: 472189.97'
C - X: 662372.51' / Y: 469556.98'
D - X: 662401.54' / Y: 464274.20'
E - X: 662416.07' / Y: 461633.08'
F - X: 659773.17' / Y: 461621.13'
G - X: 659744.79' / Y: 466903.01'
H - X: 659715.25' / Y: 472181.41'
I - X: 659701.32' / Y: 474824.45'

**BOTTOM HOLE LOCATION**
2625' FSL 409' FEL, SECTION 18
23021' MEASURED DEPTH IN FEET
**NAD 83, SPCS NM EAST**
X:703116.38' / Y:474873.05'
LAT:32.30441314N / LON:103.80971162W
**NAD 27, SPCS NM EAST**
X:661933.22' / Y:474813.41'
LAT:32.30429041N / LON:103.80922407W

**LAST TAKE POINT**
2520' FSL 410' FEL, SECTION 18
22916' MEASURED DEPTH IN FEET
**NAD 83, SPCS NM EAST**
X:703115.62' / Y:474768.07'
LAT:32.30412461N / LON:103.80971575W
**NAD 27, SPCS NM EAST**
X:661932.45' / Y:474708.44'
LAT:32.30400188N / LON:103.80922821W

**FIRST TAKE POINT**
358' FSL 439' FEL, SECTION 30
10191' MEASURED DEPTH IN FEET
**NAD 83, SPCS NM EAST**
X:703158.61' / Y:462048.23'
LAT:32.26916018N / LON:103.80977757W
**NAD 27, SPCS NM EAST**
X:661975.07' / Y:461988.93'
LAT:32.26903723N / LON:103.80929143W

**KICK OFF POINT**
123' FNL 500' FEL, SECTION 31
9522' MEASURED DEPTH IN FEET
**NAD 83, SPCS NM EAST**
X:703100.61' / Y:461567.15'
LAT:32.26783858N / LON:103.80997279W
**NAD 27, SPCS NM EAST**
X:661917.06' / Y:461507.86'
LAT:32.26771563N / LON:103.80948670W

**SURFACE HOLE LOCATION**
520' FNL 730' FEL, SECTION 31
**NAD 83, SPCS NM EAST**
X:702872.70' / Y:461169.20'
LAT:32.26674775N / LON:103.81071641W
**NAD 27, SPCS NM EAST**
X:661689.13' / Y:461109.92'
LAT:32.26662479N / LON:103.81023034W

## [17] OPERATOR CERTIFICATION

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

Signature — Date: 04/15/2021

JANA MENDIOLA
Printed Name

janalyn_mendiola@oxy.com
E-mail Address

## [18] SURVEYOR CERTIFICATION

*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.*

APRIL 14, 2021
Date of Survey

Signature and Seal of Professional Surveyor:

DAVID W. MYERS NEW MEXICO 11403 PROFESSIONAL SURVEYOR

Certificate Number
DAVID W. MYERS 11403

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

Horizontal Spacing Unit

# OXY

Schlumberger

| Borehole: | Well: | Field: | Structure: |
|---|---|---|---|
| Original Borehole | Oxy Precious 30-18 Federal Com 10H | NM Eddy County (NAD 83) | Oxy Precious 30-18 Federal Com 5H & 6H & 10H |

**Gravity & Magnetic Parameters**

| | | | | | |
|---|---|---|---|---|---|
| Model: | IFR1 | Dip: | 59.988° | Date: | 14-Dec-2020 |
| MagDec: | 6.92° | FS: | 47815.6nT | Gravity FS: | 998.452mgn (9.80665 Based) |

**Surface Location** NAD83 New Mexico State Plane, Eastern Zone, US Feet

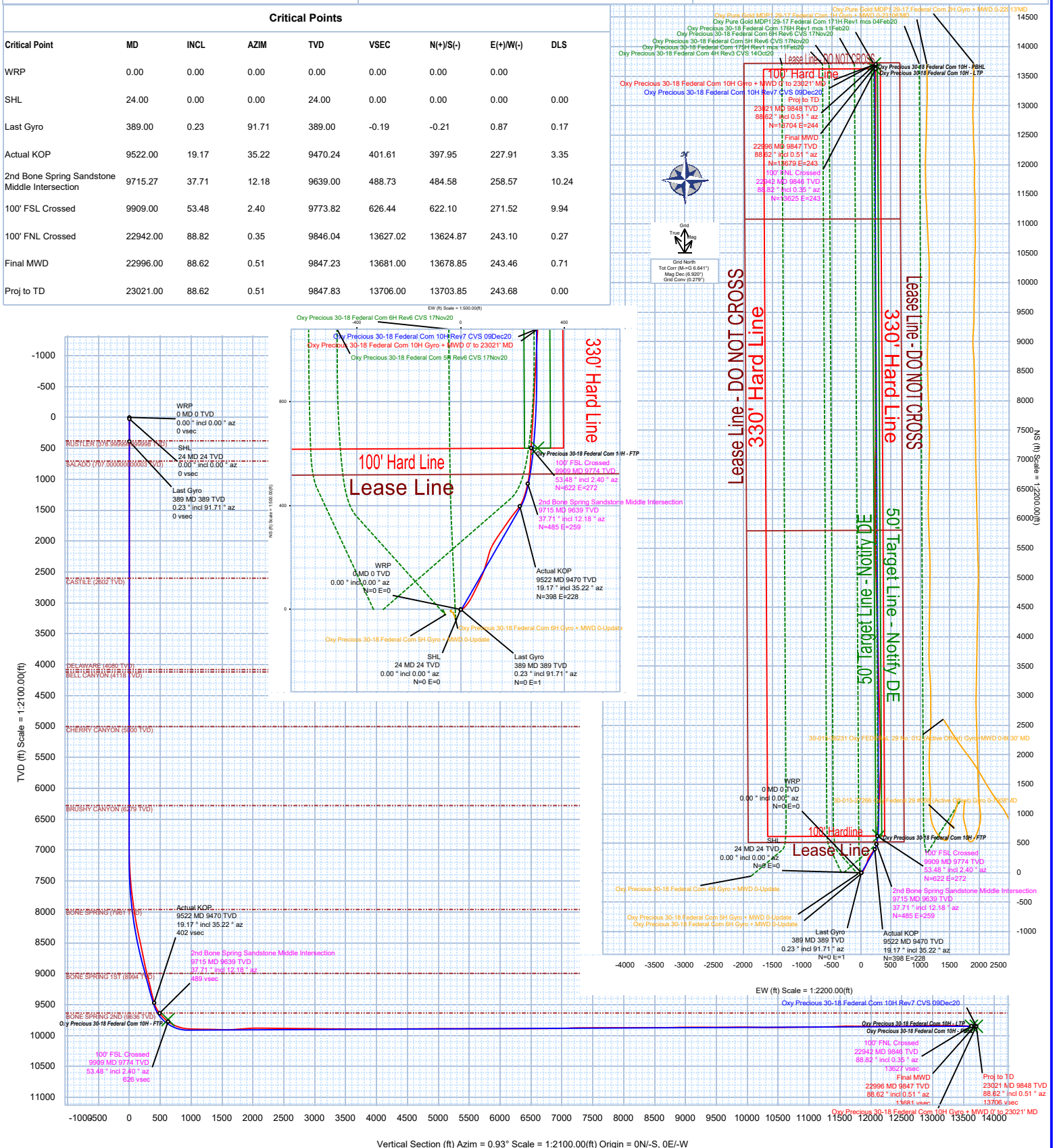
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Lat: | N 32 16 0.29 | Northing: | 461169.2ftUS | Grid Conv: | 0.279° | | |
| Lon: | W 103 48 38.58 | Easting: | 702872.7ftUS | Scale Fact: | 0.99993898 | | |

**Miscellaneous**

| | | | |
|---|---|---|---|
| Slot: | Oxy Precious 30-18 Federal Com 10H | TVD Ref: | RKB = 24'(3371ft above MSL) |
| Plan: | Oxy Precious 30-18 Federal Com 10H Gyro + MWD 0' to 23021' 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 | 24.00 | 0.00 | 0.00 | 24.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Last Gyro | 389.00 | 0.23 | 91.71 | 389.00 | -0.19 | -0.21 | 0.87 | 0.17 |
| Actual KOP | 9522.00 | 19.17 | 35.22 | 9470.24 | 401.61 | 397.95 | 227.91 | 3.35 |
| 2nd Bone Spring Sandstone Middle Intersection | 9715.27 | 37.71 | 12.18 | 9639.00 | 488.73 | 484.58 | 258.57 | 10.24 |
| 100' FSL Crossed | 9909.00 | 53.48 | 2.40 | 9773.82 | 626.44 | 622.10 | 271.52 | 9.94 |
| 100' FNL Crossed | 22942.00 | 88.82 | 0.35 | 9846.04 | 13627.02 | 13624.87 | 243.10 | 0.27 |
| Final MWD | 22996.00 | 88.62 | 0.51 | 9847.23 | 13681.00 | 13678.85 | 243.46 | 0.71 |
| Proj to TD | 23021.00 | 88.62 | 0.51 | 9847.83 | 13706.00 | 13703.85 | 243.68 | 0.00 |



Schlumberger

# Oxy Precious 30-18 Federal Com 10H Gyro + MWD 0' to 23021' MD Survey
## Geodetic Report
(Def Survey)

| | | | |
|---|---|---|---|
| **Report Date:** | December 21, 2020 - 02:38 PM | **Survey / DLS Computation:** | Minimum Curvature / Lubinski |
| **Client:** | OXY | **Vertical Section Azimuth:** | 0.933 ° (Grid North) |
| **Field:** | NM Eddy County (NAD 83) | **Vertical Section Origin:** | 0.000 ft, 0.000 ft |
| **Structure / Slot:** | Oxy Precious 30-18 Federal Com 5H & 6H & 10H / Oxy Precious 30-18 Federal Com 10H | **TVD Reference Datum:** | RKB = 24' |
| **Well:** | Oxy Precious 30-18 Federal Com 10H | **TVD Reference Elevation:** | 3371.000 ft above MSL |
| **Borehole:** | Original Borehole | **Seabed / Ground Elevation:** | 3347.000 ft above MSL |
| **UWI / API#:** | Unknown / 30-015-46463 | **Magnetic Declination:** | 6.920 ° |
| **Survey Name:** | Oxy Precious 30-18 Federal Com 10H Gyro + MWD 0' to 23021' MD | **Total Gravity Field Strength:** | 998.4522mgn (9.80665 Based) |
| **Survey Date:** | March 09, 2020 | **Gravity Model:** | GARM |
| **Tort / AHD / DDI / ERD Ratio:** | 220.592 ° / 13796.261 ft / 6.850 / 1.393 | **Total Magnetic Field Strength:** | 47815.600 nT |
| **Coordinate Reference System:** | NAD83 New Mexico State Plane, Eastern Zone, US Feet | **Magnetic Dip Angle:** | 59.988 ° |
| **Location Lat / Long:** | N 32° 16' 0.29190", W 103° 48' 38.57907" | **Declination Date:** | December 14, 2020 |
| **Location Grid N/E Y/X:** | N 461169.200 ftUS, E 702872.700 ftUS | **Magnetic Declination Model:** | IFR1 |
| **CRS Grid Convergence Angle:** | 0.2790 ° | **North Reference:** | Grid North |
| **Grid Scale Factor:** | 0.99993898 | **Grid Convergence Used:** | 0.2800 ° |
| **Version / Patch:** | 2.10.824.0 | **Total Corr Mag North->Grid North:** | 6.6400 ° |
| | | **Local Coord Referenced To:** | Well Head |

| Comments | MD (ft) | Incl (°) | Azim Grid (°) | TVD (ft) | VSEC (ft) | NS (ft) | EW (ft) | DLS (°/100ft) | Closure (ft) | Closure Azimuth (°) | Northing (ftUS) | Easting (ftUS) | Latitude (N/S ° ' ") | Longitude (E/W ° ' ") |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WRP | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | N/A | 0.00 | 0.00 | 461169.20 | 702872.70 | N 32 16 0.29 | W 103 48 38.58 |
| SHL | 24.00 | 0.00 | 0.00 | 24.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 461169.20 | 702872.70 | N 32 16 0.29 | W 103 48 38.58 |
| | 118.00 | 0.28 | 74.13 | 118.00 | 0.07 | 0.06 | 0.22 | 0.30 | 0.23 | 74.13 | 461169.26 | 702872.92 | N 32 16 0.29 | W 103 48 38.58 |
| | 218.00 | 0.17 | 160.08 | 218.00 | 0.00 | -0.01 | 0.51 | 0.32 | 0.51 | 91.11 | 461169.19 | 702873.21 | N 32 16 0.29 | W 103 48 38.57 |
| | 318.00 | 0.12 | 108.08 | 318.00 | -0.17 | -0.18 | 0.66 | 0.13 | 0.68 | 105.48 | 461169.02 | 702873.36 | N 32 16 0.29 | W 103 48 38.57 |
| Last Gyro | 389.00 | 0.23 | 91.71 | 389.00 | -0.19 | -0.21 | 0.87 | 0.17 | 0.89 | 103.52 | 461168.99 | 702873.57 | N 32 16 0.29 | W 103 48 38.57 |
| | 496.50 | 0.15 | 120.14 | 496.50 | -0.27 | -0.29 | 1.21 | 0.11 | 1.24 | 103.34 | 461168.91 | 702873.91 | N 32 16 0.29 | W 103 48 38.57 |
| | 587.50 | 0.08 | 78.10 | 587.50 | -0.31 | -0.33 | 1.37 | 0.12 | 1.41 | 103.64 | 461168.87 | 702874.07 | N 32 16 0.29 | W 103 48 38.56 |
| | 771.50 | 0.06 | 274.15 | 771.50 | -0.28 | -0.30 | 1.40 | 0.08 | 1.43 | 102.06 | 461168.90 | 702874.10 | N 32 16 0.29 | W 103 48 38.56 |
| | 863.50 | 0.12 | 97.36 | 863.50 | -0.28 | -0.31 | 1.45 | 0.20 | 1.48 | 102.01 | 461168.89 | 702874.15 | N 32 16 0.29 | W 103 48 38.56 |
| | 954.50 | 0.13 | 100.41 | 954.50 | -0.31 | -0.34 | 1.65 | 0.01 | 1.68 | 101.65 | 461168.86 | 702874.35 | N 32 16 0.29 | W 103 48 38.56 |
| | 1046.50 | 0.17 | 189.05 | 1046.50 | -0.46 | -0.49 | 1.73 | 0.23 | 1.80 | 105.93 | 461168.71 | 702874.43 | N 32 16 0.29 | W 103 48 38.56 |
| | 1137.50 | 0.05 | 92.44 | 1137.50 | -0.60 | -0.63 | 1.75 | 0.20 | 1.85 | 109.79 | 461168.57 | 702874.44 | N 32 16 0.29 | W 103 48 38.56 |
| | 1229.50 | 0.05 | 41.72 | 1229.50 | -0.57 | -0.60 | 1.81 | 0.05 | 1.91 | 108.31 | 461168.60 | 702874.51 | N 32 16 0.29 | W 103 48 38.56 |
| | 1320.50 | 0.10 | 97.45 | 1320.50 | -0.55 | -0.58 | 1.92 | 0.09 | 2.00 | 106.84 | 461168.62 | 702874.62 | N 32 16 0.29 | W 103 48 38.56 |
| | 1412.50 | 0.05 | 34.03 | 1412.50 | -0.52 | -0.56 | 2.02 | 0.10 | 2.09 | 105.43 | 461168.64 | 702874.72 | N 32 16 0.29 | W 103 48 38.56 |
| | 1504.50 | 0.05 | 92.20 | 1504.50 | -0.49 | -0.53 | 2.08 | 0.05 | 2.15 | 104.17 | 461168.67 | 702874.78 | N 32 16 0.29 | W 103 48 38.55 |
| | 1596.50 | 0.10 | 184.96 | 1596.50 | -0.57 | -0.61 | 2.11 | 0.12 | 2.20 | 106.02 | 461168.59 | 702874.81 | N 32 16 0.29 | W 103 48 38.55 |
| | 1690.50 | 0.07 | 195.29 | 1690.50 | -0.71 | -0.74 | 2.09 | 0.04 | 2.22 | 109.58 | 461168.46 | 702874.79 | N 32 16 0.28 | W 103 48 38.55 |
| | 1785.50 | 0.05 | 243.09 | 1785.50 | -0.79 | -0.82 | 2.04 | 0.05 | 2.20 | 111.87 | 461168.38 | 702874.74 | N 32 16 0.28 | W 103 48 38.56 |
| | 1880.50 | 0.07 | 126.96 | 1880.50 | -0.84 | -0.87 | 2.05 | 0.11 | 2.23 | 113.06 | 461168.33 | 702874.75 | N 32 16 0.28 | W 103 48 38.56 |
| | 1974.50 | 0.07 | 105.58 | 1974.50 | -0.89 | -0.92 | 2.15 | 0.03 | 2.34 | 113.22 | 461168.28 | 702874.85 | N 32 16 0.28 | W 103 48 38.55 |
| | 2069.50 | 0.04 | 295.66 | 2069.50 | -0.89 | -0.92 | 2.18 | 0.12 | 2.36 | 113.00 | 461168.28 | 702874.88 | N 32 16 0.28 | W 103 48 38.55 |
| | 2163.50 | 0.02 | 351.60 | 2163.50 | -0.86 | -0.89 | 2.14 | 0.04 | 2.32 | 112.61 | 461168.31 | 702874.84 | N 32 16 0.28 | W 103 48 38.55 |
| | 2258.50 | 0.01 | 37.29 | 2258.50 | -0.84 | -0.87 | 2.15 | 0.02 | 2.32 | 112.06 | 461168.33 | 702874.85 | N 32 16 0.28 | W 103 48 38.55 |
| | 2352.50 | 0.10 | 99.40 | 2352.50 | -0.84 | -0.88 | 2.23 | 0.10 | 2.40 | 111.45 | 461168.32 | 702874.93 | N 32 16 0.28 | W 103 48 38.55 |
| | 2447.50 | 0.05 | 60.62 | 2447.50 | -0.83 | -0.87 | 2.35 | 0.07 | 2.51 | 110.32 | 461168.33 | 702875.05 | N 32 16 0.28 | W 103 48 38.55 |
| | 2542.50 | 0.12 | 149.78 | 2542.50 | -0.90 | -0.94 | 2.44 | 0.14 | 2.61 | 111.01 | 461168.26 | 702875.14 | N 32 16 0.28 | W 103 48 38.55 |
| | 2636.50 | 0.02 | 42.84 | 2636.50 | -0.97 | -1.01 | 2.50 | 0.14 | 2.69 | 112.00 | 461168.19 | 702875.20 | N 32 16 0.28 | W 103 48 38.55 |
| | 2731.50 | 0.05 | 143.87 | 2731.50 | -0.99 | -1.03 | 2.53 | 0.06 | 2.74 | 112.13 | 461168.17 | 702875.23 | N 32 16 0.28 | W 103 48 38.55 |
| | 2826.50 | 0.17 | 200.75 | 2826.50 | -1.15 | -1.20 | 2.51 | 0.16 | 2.78 | 115.49 | 461168.00 | 702875.21 | N 32 16 0.28 | W 103 48 38.55 |
| | 3015.50 | 0.02 | 266.11 | 3015.50 | -1.42 | -1.46 | 2.38 | 0.09 | 2.79 | 121.57 | 461167.74 | 702875.08 | N 32 16 0.28 | W 103 48 38.55 |
| | 3110.50 | 0.15 | 50.07 | 3110.50 | -1.34 | -1.38 | 2.46 | 0.18 | 2.82 | 119.37 | 461167.82 | 702875.15 | N 32 16 0.28 | W 103 48 38.55 |
| | 3205.50 | 0.07 | 340.67 | 3205.50 | -1.21 | -1.25 | 2.53 | 0.15 | 2.82 | 116.23 | 461167.95 | 702875.23 | N 32 16 0.28 | W 103 48 38.55 |
| | 3300.50 | 0.30 | 164.05 | 3300.50 | -1.39 | -1.43 | 2.58 | 0.39 | 2.95 | 119.02 | 461167.77 | 702875.28 | N 32 16 0.28 | W 103 48 38.55 |
| | 3394.50 | 0.47 | 172.67 | 3394.49 | -2.01 | -2.05 | 2.70 | 0.19 | 3.39 | 127.24 | 461167.15 | 702875.40 | N 32 16 0.27 | W 103 48 38.55 |
| | 3489.50 | 0.07 | 166.72 | 3489.49 | -2.45 | -2.49 | 2.76 | 0.42 | 3.72 | 132.09 | 461166.71 | 702875.46 | N 32 16 0.27 | W 103 48 38.55 |
| | 3584.50 | 0.23 | 203.31 | 3584.49 | -2.68 | -2.72 | 2.70 | 0.19 | 3.83 | 135.28 | 461166.48 | 702875.40 | N 32 16 0.26 | W 103 48 38.55 |
| | 3679.50 | 0.12 | 217.96 | 3679.49 | -2.94 | -2.98 | 2.56 | 0.12 | 3.93 | 139.30 | 461166.22 | 702875.26 | N 32 16 0.26 | W 103 48 38.55 |
| | 3773.50 | 0.20 | 221.89 | 3773.49 | -3.14 | -3.18 | 2.39 | 0.09 | 3.98 | 143.04 | 461166.02 | 702875.09 | N 32 16 0.26 | W 103 48 38.55 |
| | 3868.50 | 0.23 | 230.06 | 3868.49 | -3.39 | -3.42 | 2.13 | 0.05 | 4.03 | 148.06 | 461165.78 | 702874.83 | N 32 16 0.26 | W 103 48 38.55 |
| | 3963.50 | 0.30 | 311.96 | 3963.49 | -3.35 | -3.38 | 1.80 | 0.37 | 3.83 | 151.92 | 461165.82 | 702874.50 | N 32 16 0.26 | W 103 48 38.56 |
| | 4057.50 | 0.02 | 250.72 | 4057.49 | -3.19 | -3.22 | 1.60 | 0.31 | 3.60 | 153.52 | 461165.98 | 702874.30 | N 32 16 0.26 | W 103 48 38.56 |
| | 4117.50 | 0.08 | 258.84 | 4117.49 | -3.21 | -3.23 | 1.55 | 0.10 | 3.59 | 154.33 | 461165.97 | 702874.25 | N 32 16 0.26 | W 103 48 38.56 |
| | 4310.00 | 0.22 | 246.37 | 4309.99 | -3.39 | -3.41 | 1.08 | 0.07 | 3.57 | 162.36 | 461165.79 | 702873.78 | N 32 16 0.26 | W 103 48 38.57 |
| | 4405.00 | 0.24 | 238.41 | 4404.99 | -3.57 | -3.58 | 0.75 | 0.04 | 3.66 | 168.23 | 461165.62 | 702873.45 | N 32 16 0.26 | W 103 48 38.57 |
| | 4498.00 | 0.23 | 162.05 | 4497.99 | -3.85 | -3.86 | 0.64 | 0.31 | 3.92 | 170.62 | 461165.34 | 702873.34 | N 32 16 0.25 | W 103 48 38.57 |
| | 4592.00 | 0.23 | 276.33 | 4591.99 | -4.01 | -4.02 | 0.51 | 0.41 | 4.05 | 172.79 | 461165.18 | 702873.21 | N 32 16 0.25 | W 103 48 38.57 |
| | 4686.00 | 0.22 | 114.65 | 4685.99 | -4.07 | -4.08 | 0.49 | 0.47 | 4.11 | 173.21 | 461165.12 | 702873.19 | N 32 16 0.25 | W 103 48 38.57 |
| | 4780.00 | 0.21 | 325.54 | 4779.99 | -4.00 | -4.01 | 0.55 | 0.44 | 4.05 | 172.16 | 461165.19 | 702873.25 | N 32 16 0.25 | W 103 48 38.57 |
| | 4874.00 | 0.19 | 78.39 | 4873.99 | -3.83 | -3.84 | 0.61 | 0.35 | 3.88 | 171.00 | 461165.36 | 702873.31 | N 32 16 0.25 | W 103 48 38.57 |
| | 4967.00 | 0.18 | 59.36 | 4966.98 | -3.72 | -3.73 | 0.88 | 0.07 | 3.83 | 166.67 | 461165.47 | 702873.58 | N 32 16 0.25 | W 103 48 38.57 |
| | 5061.00 | 0.20 | 131.63 | 5060.98 | -3.75 | -3.76 | 1.13 | 0.24 | 3.93 | 163.24 | 461165.44 | 702873.83 | N 32 16 0.25 | W 103 48 38.57 |
| | 5155.00 | 0.19 | 138.57 | 5154.98 | -3.97 | -3.99 | 1.36 | 0.03 | 4.22 | 161.19 | 461165.21 | 702874.06 | N 32 16 0.25 | W 103 48 38.56 |
| | 5249.00 | 0.22 | 13.79 | 5248.98 | -3.91 | -3.93 | 1.51 | 0.39 | 4.21 | 159.05 | 461165.27 | 702874.21 | N 32 16 0.25 | W 103 48 38.56 |
| | 5343.00 | 0.23 | 320.09 | 5342.98 | -3.59 | -3.61 | 1.43 | 0.22 | 3.88 | 158.44 | 461165.59 | 702874.13 | N 32 16 0.26 | W 103 48 38.56 |
| | 5437.00 | 0.21 | 84.66 | 5436.98 | -3.43 | -3.45 | 1.48 | 0.41 | 3.75 | 156.82 | 461165.75 | 702874.18 | N 32 16 0.26 | W 103 48 38.56 |
| | 5530.00 | 0.18 | 284.62 | 5529.98 | -3.37 | -3.40 | 1.51 | 0.41 | 3.72 | 156.10 | 461165.80 | 702874.21 | N 32 16 0.26 | W 103 48 38.56 |
| | 5625.00 | 0.22 | 171.40 | 5624.98 | -3.52 | -3.54 | 1.39 | 0.35 | 3.80 | 158.58 | 461165.66 | 702874.09 | N 32 16 0.26 | W 103 48 38.56 |
| | 5718.00 | 0.23 | 171.89 | 5717.98 | -3.88 | -3.90 | 1.44 | 0.01 | 4.16 | 159.72 | 461165.30 | 702874.14 | N 32 16 0.25 | W 103 48 38.56 |
| | 5813.00 | 0.21 | 148.98 | 5812.98 | -4.21 | -4.24 | 1.56 | 0.09 | 4.52 | 159.82 | 461164.96 | 702874.26 | N 32 16 0.25 | W 103 48 38.56 |
| | 5907.00 | 0.19 | 29.71 | 5906.98 | -4.22 | -4.25 | 1.72 | 0.37 | 4.59 | 157.92 | 461164.95 | 702874.42 | N 32 16 0.25 | W 103 48 38.56 |
| | 6001.00 | 0.21 | 15.51 | 6000.98 | -3.92 | -3.95 | 1.85 | 0.06 | 4.36 | 154.93 | 461165.25 | 702874.55 | N 32 16 0.25 | W 103 48 38.56 |
| | 6095.00 | 0.20 | 326.38 | 6094.98 | -3.62 | -3.65 | 1.80 | 0.18 | 4.07 | 153.70 | 461165.55 | 702874.50 | N 32 16 0.26 | W 103 48 38.56 |
| | 6188.00 | 0.20 | 156.61 | 6187.98 | -3.63 | -3.66 | 1.78 | 0.43 | 4.07 | 154.11 | 461165.54 | 702874.48 | N 32 16 0.26 | W 103 48 38.56 |
| | 6281.00 | 0.22 | 25.48 | 6280.98 | -3.62 | -3.65 | 1.92 | 0.41 | 4.12 | 152.27 | 461165.55 | 702874.62 | N 32 16 0.26 | W 103 48 38.56 |
| | 6376.00 | 0.20 | 293.72 | 6375.98 | -3.39 | -3.42 | 1.85 | 0.32 | 3.89 | 151.64 | 461165.78 | 702874.55 | N 32 16 0.26 | W 103 48 38.56 |
| | 6470.00 | 0.23 | 192.77 | 6469.98 | -3.51 | -3.54 | 1.65 | 0.35 | 3.91 | 154.94 | 461165.66 | 702874.35 | N 32 16 0.26 | W 103 48 38.56 |
| | 6563.00 | 0.21 | 144.60 | 6562.98 | -3.83 | -3.86 | 1.71 | 0.19 | 4.22 | 156.08 | 461165.34 | 702874.41 | N 32 16 0.25 | W 103 48 38.56 |
| | 6655.00 | 0.24 | 27.89 | 6654.98 | -3.79 | -3.83 | 1.90 | 0.42 | 4.27 | 153.60 | 461165.37 | 702874.60 | N 32 16 0.25 | W 103 48 38.56 |
| | 6750.00 | 0.19 | 142.61 | 6749.98 | -3.74 | -3.77 | 2.09 | 0.38 | 4.31 | 151.05 | 461165.43 | 702874.79 | N 32 16 0.25 | W 103 48 38.55 |
| | 6843.00 | 0.23 | 354.71 | 6842.98 | -3.68 | -3.71 | 2.16 | 0.43 | 4.30 | 149.75 | 461165.49 | 702874.86 | N 32 16 0.26 | W 103 48 38.55 |
| | 6938.00 | 0.14 | 359.90 | 6937.98 | -3.37 | -3.41 | 2.15 | 0.10 | 4.03 | 147.77 | 461165.79 | 702874.85 | N 32 16 0.26 | W 103 48 38.55 |
| | 7031.00 | 0.93 | 39.55 | 7030.97 | -2.67 | -2.71 | 2.63 | 0.89 | 3.77 | 135.89 | 461166.49 | 702875.33 | N 32 16 0.26 | W 103 48 38.55 |
| | 7125.00 | 2.36 | 52.43 | 7124.93 | -0.87 | -0.94 | 4.65 | 1.56 | 4.74 | 101.45 | 461168.26 | 702877.35 | N 32 16 0.28 | W 103 48 38.53 |
| | 7219.00 | 3.87 | 49.25 | 7218.79 | 2.45 | 2.31 | 8.58 | 1.62 | 8.89 | 74.94 | 461171.51 | 702881.28 | N 32 16 0.31 | W 103 48 38.48 |
| | 7313.00 | 4.53 | 47.17 | 7312.54 | 7.13 | 6.90 | 13.71 | 0.72 | 15.35 | 63.27 | 461176.10 | 702886.41 | N 32 16 0.36 | W 103 48 38.42 |
| | 7406.00 | 5.34 | 39.48 | 7405.19 | 13.05 | 12.74 | 19.15 | 1.12 | 23.01 | 56.37 | 461181.94 | 702891.85 | N 32 16 0.42 | W 103 48 38.36 |
| | 7501.00 | 5.98 | 37.46 | 7499.73 | 20.49 | 20.08 | 24.98 | 0.71 | 32.05 | 51.20 | 461189.28 | 702897.67 | N 32 16 0.49 | W 103 48 38.29 |
| | 7594.00 | 6.73 | 33.77 | 7592.16 | 28.96 | 28.46 | 30.95 | 0.92 | 42.04 | 47.40 | 461197.65 | 702903.65 | N 32 16 0.57 | W 103 48 38.22 |
| | 7688.00 | 7.49 | 31.00 | 7685.43 | 38.89 | 38.29 | 37.17 | 0.89 | 53.36 | 44.15 | 461207.48 | 702909.87 | N 32 16 0.67 | W 103 48 38.14 |
| | 7781.00 | 8.49 | 27.95 | 7777.53 | 50.25 | 49.55 | 43.51 | 1.17 | 65.94 | 41.29 | 461218.74 | 702916.21 | N 32 16 0.78 | W 103 48 38.07 |
| | 7874.00 | 8.48 | 26.49 | 7869.51 | 62.55 | 61.75 | 49.78 | 0.23 | 79.32 | 38.88 | 461230.94 | 702922.48 | N 32 16 0.90 | W 103 48 38.00 |
| | 7968.00 | 9.07 | 26.42 | 7962.41 | 75.49 | 74.59 | 56.17 | 0.63 | 93.37 | 36.98 | 461243.78 | 702928.87 | N 32 16 1.03 | W 103 48 37.92 |
| | 8062.00 | 10.30 | 25.91 | 8055.07 | 89.80 | 88.78 | 63.14 | 1.31 | 108.95 | 35.42 | 461257.98 | 702935.84 | N 32 16 1.17 | W 103 48 37.84 |
| | 8157.00 | 10.92 | 25.38 | 8148.44 | 105.69 | 104.55 | 70.71 | 0.66 | 126.22 | 34.07 | 461273.74 | 702943.40 | N 32 16 1.32 | W 103 48 37.75 |
| | 8252.00 | 11.38 | 24.71 | 8241.65 | 122.46 | 121.20 | 78.48 | 0.50 | 144.39 | 32.93 | 461290.39 | 702951.18 | N 32 16 1.49 | W 103 48 37.66 |
| | 8345.00 | 12.77 | 21.32 | 8332.59 | 140.49 | 139.11 | 86.06 | 1.68 | 163.57 | 31.74 | 461308.30 | 702958.75 | N 32 16 1.66 | W 103 48 37.57 |
| | 8439.00 | 13.22 | 17.65 | 8424.19 | 160.52 | 159.03 | 93.09 | 1.00 | 184.27 | 30.34 | 461328.22 | 702965.79 | N 32 16 1.86 | W 103 48 37.49 |
| | 8533.00 | 12.58 | 16.61 | 8515.81 | 180.67 | 179.08 | 99.28 | 0.72 | 204.76 | 29.00 | 461348.27 | 702971.97 | N 32 16 2.06 | W 103 48 37.41 |
| | 8626.00 | 11.98 | 15.65 | 8606.69 | 199.76 | 198.08 | 104.78 | 0.68 | 224.08 | 27.88 | 461367.27 | 702977.47 | N 32 16 2.25 | W 103 48 37.35 |
| | 8719.00 | 11.94 | 15.62 | 8697.67 | 218.40 | 216.64 | 109.97 | 0.04 | 242.95 | 26.91 | 461385.82 | 702982.66 | N 32 16 2.43 | W 103 48 37.29 |
| | 8813.00 | 12.20 | 24.11 | 8789.60 | 236.94 | 235.07 | 116.65 | 1.91 | 262.42 | 26.39 | 461404.26 | 702989.34 | N 32 16 2.61 | W 103 48 37.21 |
| | 8907.00 | 14.12 | 30.30 | 8881.13 | 256.06 | 254.04 | 126.49 | 2.53 | 283.79 | 26.47 | 461423.22 | 702999.18 | N 32 16 2.80 | W 103 48 37.09 |

| Comments | MD (ft) | Incl (°) | Azim Grid (°) | TVD (ft) | VSEC (ft) | NS (ft) | EW (ft) | DLS (°/100ft) | Closure (ft) | Closure Azimuth (°) | Northing (ftUS) | Easting (ftUS) | Latitude (N/S ° ' ") | Longitude (E/W ° ' ") |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 9000.00 | 16.00 | 32.81 | 8970.93 | 276.84 | 274.61 | 139.16 | 2.14 | 307.86 | 26.87 | 461443.79 | 703011.85 | N 32 16 3.00 | W 103 48 36.94 |
| | 9093.00 | 18.01 | 35.35 | 9059.86 | 299.58 | 297.11 | 154.43 | 2.30 | 334.84 | 27.46 | 461466.29 | 703027.12 | N 32 16 3.22 | W 103 48 36.76 |
| | 9186.00 | 15.86 | 34.35 | 9148.82 | 322.05 | 319.33 | 169.92 | 2.33 | 361.72 | 28.02 | 461488.51 | 703042.61 | N 32 16 3.44 | W 103 48 36.58 |
| | 9280.00 | 15.50 | 34.67 | 9239.33 | 343.22 | 340.26 | 184.31 | 0.39 | 386.97 | 28.44 | 461509.44 | 703057.00 | N 32 16 3.65 | W 103 48 36.41 |
| | 9374.00 | 17.55 | 37.40 | 9329.44 | 365.07 | 361.86 | 200.06 | 2.33 | 413.48 | 28.94 | 461531.03 | 703072.75 | N 32 16 3.86 | W 103 48 36.23 |
| | 9468.00 | 17.75 | 38.77 | 9419.01 | 387.78 | 384.29 | 217.64 | 0.49 | 441.64 | 29.53 | 461553.46 | 703090.33 | N 32 16 4.08 | W 103 48 36.02 |
| Actual KOP | 9522.00 | 19.17 | 35.22 | 9470.24 | 401.61 | 397.95 | 227.91 | 3.35 | 458.59 | 29.80 | 461567.12 | 703100.60 | N 32 16 4.22 | W 103 48 35.90 |
| | 9616.00 | 28.85 | 18.91 | 9556.09 | 436.05 | 432.13 | 244.22 | 12.40 | 496.36 | 29.47 | 461601.30 | 703116.90 | N 32 16 4.56 | W 103 48 35.71 |
| | 9709.00 | 37.19 | 12.80 | 9634.02 | 485.00 | 480.86 | 257.74 | 9.65 | 545.58 | 28.19 | 461650.03 | 703130.43 | N 32 16 5.04 | W 103 48 35.55 |
| *2nd Bone Spring Sandstone Middle Intersection* | *9715.27* | *37.71* | *12.18* | *9639.00* | *488.73* | *484.58* | *258.57* | *10.24* | *549.25* | *28.08* | *461653.75* | *703131.25* | *N 32 16 5.07* | *W 103 48 35.54* |
| | 9803.00 | 45.28 | 4.86 | 9704.70 | 546.26 | 541.99 | 266.89 | 10.24 | 604.13 | 26.22 | 461711.15 | 703139.57 | N 32 16 5.64 | W 103 48 35.44 |
| | 9898.00 | 52.41 | 2.15 | 9767.19 | 617.66 | 613.33 | 271.17 | 7.81 | 670.60 | 23.85 | 461782.49 | 703143.85 | N 32 16 6.35 | W 103 48 35.39 |
| *100' FSL Crossed* | *9909.00* | *53.48* | *2.40* | *9773.82* | *626.44* | *622.10* | *271.52* | *9.94* | *678.77* | *23.58* | *461791.26* | *703144.20* | *N 32 16 6.43* | *W 103 48 35.38* |
| | 9990.00 | 61.41 | 4.07 | 9817.37 | 694.60 | 690.20 | 275.41 | 9.94 | 743.12 | 21.75 | 461859.36 | 703148.09 | N 32 16 7.11 | W 103 48 35.33 |
| | 10084.00 | 70.84 | 2.95 | 9855.37 | 780.37 | 775.90 | 280.64 | 10.09 | 825.10 | 19.88 | 461945.05 | 703153.32 | N 32 16 7.96 | W 103 48 35.27 |
| | 10178.00 | 78.09 | 2.90 | 9880.53 | 870.82 | 866.29 | 285.25 | 7.71 | 912.05 | 18.23 | 462035.44 | 703157.94 | N 32 16 8.85 | W 103 48 35.21 |
| | 10272.00 | 87.78 | 3.26 | 9892.08 | 963.93 | 959.33 | 290.26 | 10.32 | 1002.28 | 16.83 | 462128.47 | 703162.95 | N 32 16 9.77 | W 103 48 35.14 |
| | 10353.00 | 88.22 | 3.15 | 9894.91 | 1044.82 | 1040.16 | 294.79 | 0.56 | 1081.12 | 15.82 | 462209.29 | 703167.47 | N 32 16 10.57 | W 103 48 35.09 |
| | 10551.00 | 89.46 | 3.02 | 9898.91 | 1242.63 | 1237.82 | 305.44 | 0.63 | 1274.95 | 13.86 | 462406.95 | 703178.12 | N 32 16 12.53 | W 103 48 34.95 |
| | 10645.00 | 88.79 | 2.80 | 9900.35 | 1336.57 | 1331.69 | 310.21 | 0.75 | 1367.35 | 13.11 | 462500.81 | 703182.89 | N 32 16 13.45 | W 103 48 34.89 |
| | 10738.00 | 87.90 | 2.28 | 9903.04 | 1429.49 | 1424.56 | 314.33 | 1.11 | 1458.83 | 12.44 | 462593.67 | 703187.01 | N 32 16 14.37 | W 103 48 34.84 |
| | 10832.00 | 88.78 | 2.19 | 9905.76 | 1523.42 | 1518.45 | 318.00 | 0.94 | 1551.39 | 11.83 | 462687.55 | 703190.68 | N 32 16 15.30 | W 103 48 34.79 |
| | 10926.00 | 91.15 | 2.24 | 9905.82 | 1617.39 | 1612.37 | 321.63 | 2.52 | 1644.14 | 11.28 | 462781.47 | 703194.31 | N 32 16 16.23 | W 103 48 34.74 |
| | 11022.00 | 94.35 | 2.64 | 9901.21 | 1713.24 | 1708.16 | 325.71 | 3.36 | 1738.94 | 10.80 | 462877.25 | 703198.39 | N 32 16 17.18 | W 103 48 34.69 |
| | 11121.00 | 94.73 | 0.76 | 9893.37 | 1811.91 | 1806.80 | 328.64 | 1.93 | 1836.45 | 10.31 | 462975.89 | 703201.32 | N 32 16 18.15 | W 103 48 34.65 |
| | 11215.00 | 93.95 | 359.50 | 9886.26 | 1905.63 | 1900.53 | 328.85 | 1.57 | 1928.77 | 9.82 | 463069.61 | 703201.53 | N 32 16 19.08 | W 103 48 34.64 |
| | 11308.00 | 92.03 | 358.82 | 9881.41 | 1998.46 | 1993.39 | 327.49 | 2.19 | 2020.11 | 9.33 | 463162.46 | 703200.17 | N 32 16 20.00 | W 103 48 34.65 |
| | 11402.00 | 89.75 | 358.47 | 9879.95 | 2092.36 | 2087.34 | 325.27 | 2.45 | 2112.54 | 8.86 | 463256.41 | 703197.95 | N 32 16 20.93 | W 103 48 34.67 |
| | 11496.00 | 89.31 | 358.55 | 9880.72 | 2186.28 | 2181.31 | 322.82 | 0.48 | 2205.07 | 8.42 | 463350.37 | 703195.50 | N 32 16 21.86 | W 103 48 34.70 |
| | 11590.00 | 89.26 | 358.79 | 9881.89 | 2280.20 | 2275.28 | 320.64 | 0.26 | 2297.76 | 8.02 | 463444.33 | 703193.32 | N 32 16 22.79 | W 103 48 34.72 |
| | 11683.00 | 89.21 | 359.23 | 9883.14 | 2373.13 | 2368.25 | 319.04 | 0.48 | 2389.65 | 7.67 | 463537.30 | 703191.72 | N 32 16 23.71 | W 103 48 34.73 |
| | 11777.00 | 89.64 | 358.55 | 9884.08 | 2467.07 | 2462.23 | 317.21 | 0.86 | 2482.58 | 7.34 | 463631.28 | 703189.89 | N 32 16 24.64 | W 103 48 34.74 |
| | 11871.00 | 89.68 | 358.55 | 9884.64 | 2560.99 | 2556.20 | 314.84 | 0.04 | 2575.51 | 7.02 | 463725.24 | 703187.52 | N 32 16 25.57 | W 103 48 34.77 |
| | 11965.00 | 89.27 | 358.35 | 9885.50 | 2654.89 | 2650.16 | 312.29 | 0.49 | 2668.50 | 6.72 | 463819.19 | 703184.97 | N 32 16 26.50 | W 103 48 34.79 |
| | 12155.00 | 89.45 | 358.33 | 9887.62 | 2844.69 | 2840.07 | 306.79 | 0.10 | 2856.59 | 6.17 | 464009.09 | 703179.47 | N 32 16 28.38 | W 103 48 34.84 |
| | 12250.00 | 89.38 | 358.06 | 9888.59 | 2939.57 | 2935.02 | 303.80 | 0.29 | 2950.70 | 5.91 | 464104.03 | 703176.48 | N 32 16 29.32 | W 103 48 34.87 |
| | 12344.00 | 89.38 | 358.50 | 9889.61 | 3033.47 | 3028.97 | 300.98 | 0.47 | 3043.89 | 5.67 | 464197.98 | 703173.66 | N 32 16 30.25 | W 103 48 34.90 |
| | 12439.00 | 89.25 | 359.21 | 9890.74 | 3128.40 | 3123.94 | 299.08 | 0.76 | 3138.23 | 5.47 | 464292.95 | 703171.76 | N 32 16 31.19 | W 103 48 34.92 |
| | 12533.00 | 89.79 | 359.00 | 9891.53 | 3222.35 | 3217.93 | 297.61 | 0.62 | 3231.66 | 5.28 | 464386.92 | 703170.29 | N 32 16 32.12 | W 103 48 34.93 |
| | 12628.00 | 89.54 | 358.36 | 9892.09 | 3317.27 | 3312.90 | 295.42 | 0.72 | 3326.05 | 5.10 | 464481.89 | 703168.10 | N 32 16 33.06 | W 103 48 34.95 |
| | 12722.00 | 89.75 | 358.21 | 9892.67 | 3411.17 | 3406.86 | 292.61 | 0.27 | 3419.40 | 4.91 | 464575.84 | 703165.29 | N 32 16 33.99 | W 103 48 34.98 |
| | 12817.00 | 89.66 | 358.58 | 9893.16 | 3506.07 | 3501.82 | 289.95 | 0.40 | 3513.80 | 4.73 | 464670.80 | 703162.63 | N 32 16 34.93 | W 103 48 35.00 |
| | 12912.00 | 89.71 | 359.01 | 9893.68 | 3601.01 | 3596.79 | 287.95 | 0.46 | 3608.30 | 4.58 | 464765.77 | 703160.63 | N 32 16 35.87 | W 103 48 35.02 |
| | 13007.00 | 89.75 | 358.54 | 9894.13 | 3695.94 | 3691.77 | 285.92 | 0.50 | 3702.83 | 4.43 | 464860.74 | 703158.60 | N 32 16 36.81 | W 103 48 35.04 |
| | 13105.00 | 89.65 | 358.45 | 9894.64 | 3793.85 | 3789.74 | 283.35 | 0.14 | 3800.31 | 4.28 | 464958.70 | 703156.03 | N 32 16 37.78 | W 103 48 35.06 |
| | 13199.00 | 89.82 | 358.45 | 9895.08 | 3887.76 | 3883.70 | 280.80 | 0.18 | 3893.84 | 4.14 | 465052.66 | 703153.48 | N 32 16 38.71 | W 103 48 35.09 |
| | 13294.00 | 90.26 | 358.61 | 9895.01 | 3982.67 | 3978.67 | 278.37 | 0.49 | 3988.39 | 4.00 | 465147.62 | 703151.05 | N 32 16 39.65 | W 103 48 35.11 |
| | 13388.00 | 90.29 | 358.45 | 9894.56 | 4076.59 | 4072.64 | 275.95 | 0.17 | 4081.98 | 3.88 | 465241.58 | 703148.64 | N 32 16 40.58 | W 103 48 35.13 |
| | 13483.00 | 90.22 | 358.03 | 9894.14 | 4171.48 | 4167.59 | 273.04 | 0.45 | 4176.53 | 3.75 | 465336.53 | 703145.72 | N 32 16 41.52 | W 103 48 35.16 |
| | 13577.00 | 90.33 | 358.39 | 9893.68 | 4265.38 | 4261.54 | 270.10 | 0.40 | 4270.09 | 3.63 | 465430.48 | 703142.78 | N 32 16 42.45 | W 103 48 35.19 |
| | 13672.00 | 90.44 | 358.32 | 9893.05 | 4360.28 | 4356.50 | 267.37 | 0.14 | 4364.70 | 3.51 | 465525.43 | 703140.06 | N 32 16 43.39 | W 103 48 35.22 |
| | 13766.00 | 90.42 | 358.36 | 9892.34 | 4454.18 | 4450.46 | 264.65 | 0.05 | 4458.32 | 3.40 | 465619.38 | 703137.33 | N 32 16 44.32 | W 103 48 35.24 |
| | 13861.00 | 90.30 | 358.30 | 9891.74 | 4549.08 | 4545.42 | 261.88 | 0.14 | 4552.96 | 3.30 | 465714.33 | 703134.57 | N 32 16 45.26 | W 103 48 35.27 |
| | 13955.00 | 90.32 | 358.75 | 9891.23 | 4643.00 | 4639.39 | 259.46 | 0.48 | 4646.63 | 3.20 | 465808.29 | 703132.15 | N 32 16 46.19 | W 103 48 35.29 |
| | 14050.00 | 90.55 | 358.69 | 9890.51 | 4737.92 | 4734.36 | 257.34 | 0.25 | 4741.35 | 3.11 | 465903.26 | 703130.02 | N 32 16 47.13 | W 103 48 35.31 |
| | 14144.00 | 90.10 | 358.77 | 9889.98 | 4831.85 | 4828.33 | 255.26 | 0.49 | 4835.08 | 3.03 | 465997.23 | 703127.94 | N 32 16 48.06 | W 103 48 35.33 |
| | 14238.00 | 90.54 | 358.44 | 9889.46 | 4925.77 | 4922.30 | 252.97 | 0.59 | 4928.80 | 2.94 | 466091.19 | 703125.65 | N 32 16 48.99 | W 103 48 35.35 |
| | 14333.00 | 90.19 | 358.03 | 9888.85 | 5020.66 | 5017.26 | 250.04 | 0.57 | 5023.48 | 2.85 | 466186.14 | 703122.73 | N 32 16 49.93 | W 103 48 35.38 |
| | 14427.00 | 90.14 | 358.27 | 9888.58 | 5114.55 | 5111.21 | 247.01 | 0.26 | 5117.17 | 2.77 | 466280.09 | 703119.69 | N 32 16 50.86 | W 103 48 35.41 |
| | 14522.00 | 89.40 | 357.78 | 9888.96 | 5209.43 | 5206.15 | 243.73 | 0.93 | 5211.85 | 2.68 | 466375.02 | 703116.42 | N 32 16 51.79 | W 103 48 35.44 |
| | 14617.00 | 89.85 | 358.29 | 9889.58 | 5304.30 | 5301.09 | 240.48 | 0.72 | 5306.54 | 2.60 | 466469.96 | 703113.16 | N 32 16 52.73 | W 103 48 35.48 |
| | 14711.00 | 90.19 | 359.12 | 9889.55 | 5398.23 | 5395.07 | 238.35 | 0.95 | 5400.33 | 2.53 | 466563.93 | 703111.04 | N 32 16 53.66 | W 103 48 35.50 |
| | 14805.00 | 90.01 | 0.01 | 9889.39 | 5492.20 | 5489.06 | 237.64 | 0.97 | 5494.20 | 2.48 | 466657.92 | 703110.32 | N 32 16 54.59 | W 103 48 35.50 |
| | 14900.00 | 89.78 | 359.87 | 9889.56 | 5587.19 | 5584.06 | 237.54 | 0.28 | 5589.11 | 2.44 | 466752.91 | 703110.22 | N 32 16 55.53 | W 103 48 35.50 |
| | 14995.00 | 90.05 | 0.13 | 9889.70 | 5682.18 | 5679.06 | 237.54 | 0.39 | 5684.03 | 2.40 | 466847.90 | 703110.22 | N 32 16 56.47 | W 103 48 35.49 |
| | 15090.00 | 89.95 | 359.84 | 9889.70 | 5777.16 | 5774.06 | 237.51 | 0.32 | 5778.94 | 2.36 | 466942.90 | 703110.20 | N 32 16 57.41 | W 103 48 35.48 |
| | 15184.00 | 90.07 | 359.80 | 9889.68 | 5871.15 | 5868.06 | 237.22 | 0.13 | 5872.85 | 2.31 | 467036.89 | 703109.90 | N 32 16 58.34 | W 103 48 35.48 |
| | 15279.00 | 90.19 | 359.87 | 9889.47 | 5966.13 | 5963.06 | 236.95 | 0.15 | 5967.77 | 2.28 | 467131.88 | 703109.63 | N 32 16 59.28 | W 103 48 35.48 |
| | 15372.00 | 90.39 | 0.44 | 9889.00 | 6059.12 | 6056.06 | 237.20 | 0.65 | 6060.70 | 2.24 | 467224.88 | 703109.88 | N 32 17 0.20 | W 103 48 35.47 |
| | 15467.00 | 90.07 | 359.83 | 9888.62 | 6154.11 | 6151.06 | 237.42 | 0.73 | 6155.64 | 2.21 | 467319.87 | 703110.11 | N 32 17 1.14 | W 103 48 35.46 |
| | 15561.00 | 90.49 | 0.72 | 9888.16 | 6248.10 | 6245.05 | 237.87 | 1.05 | 6249.58 | 2.18 | 467413.86 | 703110.56 | N 32 17 2.07 | W 103 48 35.45 |
| | 15656.00 | 89.98 | 359.70 | 9887.77 | 6343.09 | 6340.05 | 238.22 | 1.20 | 6344.52 | 2.15 | 467508.85 | 703110.90 | N 32 17 3.01 | W 103 48 35.44 |
| | 15751.00 | 90.17 | 359.15 | 9887.64 | 6438.06 | 6435.04 | 237.27 | 0.61 | 6439.42 | 2.11 | 467603.84 | 703109.95 | N 32 17 3.95 | W 103 48 35.45 |
| | 15846.00 | 90.14 | 0.06 | 9887.39 | 6533.03 | 6530.04 | 236.61 | 0.96 | 6534.33 | 2.08 | 467698.83 | 703109.30 | N 32 17 4.89 | W 103 48 35.45 |
| | 15940.00 | 90.30 | 0.18 | 9887.03 | 6627.02 | 6624.04 | 236.81 | 0.21 | 6628.27 | 2.05 | 467792.82 | 703109.49 | N 32 17 5.83 | W 103 48 35.44 |
| | 16035.00 | 90.35 | 0.23 | 9886.49 | 6722.01 | 6719.04 | 237.15 | 0.07 | 6723.22 | 2.02 | 467887.81 | 703109.83 | N 32 17 6.76 | W 103 48 35.44 |
| | 16131.00 | 90.39 | 359.92 | 9885.87 | 6818.00 | 6815.04 | 237.27 | 0.33 | 6819.17 | 1.99 | 467983.81 | 703109.96 | N 32 17 7.71 | W 103 48 35.43 |
| | 16226.00 | 90.50 | 0.24 | 9885.13 | 6912.98 | 6910.03 | 237.41 | 0.36 | 6914.11 | 1.97 | 468078.80 | 703110.09 | N 32 17 8.65 | W 103 48 35.42 |
| | 16321.00 | 90.37 | 0.35 | 9884.41 | 7007.97 | 7005.03 | 237.90 | 0.18 | 7009.07 | 1.95 | 468173.79 | 703110.58 | N 32 17 9.59 | W 103 48 35.41 |
| | 16416.00 | 93.73 | 1.90 | 9881.01 | 7102.90 | 7099.93 | 239.76 | 3.89 | 7103.98 | 1.93 | 468268.69 | 703112.44 | N 32 17 10.53 | W 103 48 35.38 |
| | 16510.00 | 91.73 | 1.07 | 9876.53 | 7196.78 | 7193.79 | 242.19 | 2.30 | 7197.87 | 1.93 | 468362.54 | 703114.88 | N 32 17 11.46 | W 103 48 35.35 |
| | 16605.00 | 89.95 | 359.65 | 9875.14 | 7291.76 | 7288.77 | 242.79 | 2.40 | 7292.81 | 1.91 | 468457.51 | 703115.47 | N 32 17 12.40 | W 103 48 35.34 |
| | 16700.00 | 90.79 | 0.30 | 9874.53 | 7386.74 | 7383.77 | 242.75 | 1.12 | 7387.76 | 1.88 | 468552.50 | 703115.43 | N 32 17 13.34 | W 103 48 35.33 |
| | 16795.00 | 90.16 | 359.82 | 9873.74 | 7481.73 | 7478.76 | 242.85 | 0.83 | 7482.71 | 1.86 | 468647.49 | 703115.53 | N 32 17 14.28 | W 103 48 35.33 |
| | 16890.00 | 90.12 | 359.87 | 9873.51 | 7576.71 | 7573.76 | 242.59 | 0.07 | 7577.65 | 1.83 | 468742.49 | 703115.27 | N 32 17 15.22 | W 103 48 35.32 |
| | 16985.00 | 90.25 | 0.29 | 9873.20 | 7671.70 | 7668.76 | 242.72 | 0.46 | 7672.60 | 1.81 | 468837.48 | 703115.41 | N 32 17 16.16 | W 103 48 35.32 |
| | 17080.00 | 90.35 | 359.84 | 9872.70 | 7766.69 | 7763.76 | 242.83 | 0.49 | 7767.56 | 1.79 | 468932.47 | 703115.51 | N 32 17 17.10 | W 103 48 35.31 |
| | 17175.00 | 90.02 | 359.78 | 9872.40 | 7861.67 | 7858.76 | 242.51 | 0.35 | 7862.50 | 1.77 | 469027.46 | 703115.20 | N 32 17 18.04 | W 103 48 35.31 |
| | 17270.00 | 90.12 | 359.78 | 9872.28 | 7956.65 | 7953.76 | 242.15 | 0.11 | 7957.44 | 1.74 | 469122.46 | 703114.83 | N 32 17 18.98 | W 103 48 35.31 |
| | 17365.00 | 90.02 | 359.46 | 9872.16 | 8051.62 | 8048.76 | 241.52 | 0.35 | 8052.38 | 1.72 | 469217.45 | 703114.20 | N 32 17 19.92 | W 103 48 35.31 |
| | 17460.00 | 90.09 | 359.76 | 9872.07 | 8146.60 | 8143.75 | 240.87 | 0.32 | 8147.32 | 1.69 | 469312.44 | 703113.56 | N 32 17 20.86 | W 103 48 35.31 |
| | 17555.00 | 90.14 | 359.96 | 9871.88 | 8241.58 | 8238.75 | 240.64 | 0.22 | 8242.27 | 1.67 | 469407.43 | 703113.32 | N 32 17 21.80 | W 103 48 35.31 |
| | 17650.00 | 90.13 | 359.87 | 9871.66 | 8336.56 | 8333.75 | 240.50 | 0.10 | 8337.22 | 1.65 | 469502.43 | 703113.18 | N 32 17 22.74 | W 103 48 35.30 |
| | 17745.00 | 89.90 | 359.59 | 9871.63 | 8431.54 | 8428.75 | 240.05 | 0.38 | 8432.17 | 1.63 | 469597.42 | 703112.74 | N 32 17 23.68 | W 103 48 35.30 |
| | 17840.00 | 89.96 | 359.89 | 9871.75 | 8526.52 | 8523.75 | 239.62 | 0.32 | 8527.12 | 1.61 | 469692.41 | 703112.31 | N 32 17 24.62 | W 103 48 35.30 |
| | 17935.00 | 90.33 | 359.76 | 9871.51 | 8621.50 | 8618.75 | 239.33 | 0.41 | 8622.07 | 1.59 | 469787.41 | 703112.01 | N 32 17 25.56 | W 103 48 35.30 |
| | 18030.00 | 90.15 | 359.96 | 9871.11 | 8716.49 | 8713.75 | 239.10 | 0.28 | 8717.03 | 1.57 | 469882.40 | 703111.78 | N 32 17 26.50 | W 103 48 35.30 |
| | 18125.00 | 91.53 | 0.53 | 9869.72 | 8811.47 | 8808.73 | 239.50 | 1.57 | 8811.99 | 1.56 | 469977.38 | 703112.19 | N 32 17 27.44 | W 103 48 35.29 |
| | 18220.00 | 91.40 | 0.16 | 9867.29 | 8906.43 | 8903.70 | 240.08 | 0.41 | 8906.94 | 1.54 | 470072.34 | 703112.76 | N 32 17 28.38 | W 103 48 35.28 |
| | 18315.00 | 90.40 | 359.94 | 9865.80 | 9001.41 | 8998.69 | 240.16 | 1.08 | 9001.89 | 1.53 | 470167.32 | 703112.84 | N 32 17 29.32 | W 103 48 35.27 |
| | 18410.00 | 90.22 | 0.18 | 9865.28 | 9096.39 | 9093.69 | 240.26 | 0.32 | 9096.86 | 1.51 | 470262.31 | 703112.94 | N 32 17 30.26 | W 103 48 35.26 |
| | 18505.00 | 90.08 | 359.94 | 9865.03 | 9191.38 | 9188.69 | 240.36 | 0.29 | 9191.83 | 1.50 | 470357.31 | 703113.04 | N 32 17 31.20 | W 103 48 35.26 |
| | 18600.00 | 90.02 | 359.94 | 9864.95 | 9286.37 | 9283.69 | 240.26 | 0.06 | 9286.80 | 1.48 | 470452.30 | 703112.94 | N 32 17 32.14 | W 103 48 35.25 |
| | 18695.00 | 88.81 | 358.67 | 9865.92 | 9381.32 | 9378.67 | 239.11 | 1.85 | 9381.72 | 1.46 | 470547.28 | 703111.79 | N 32 17 33.08 | W 103 48 35.26 |
| | 18790.00 | 90.16 | 359.78 | 9866.78 | 9476.27 | 9473.65 | 237.82 | 1.84 | 9476.64 | 1.44 | 470642.26 | 703110.51 | N 32 17 34.02 | W 103 48 35.27 |
| | 18885.00 | 90.07 | 359.95 | 9866.58 | 9571.25 | 9568.65 | 237.60 | 0.20 | 9571.60 | 1.42 | 470737.25 | 703110.28 | N 32 17 34.96 | W 103 48 35.27 |
| | 18979.00 | 90.47 | 0.18 | 9866.14 | 9665.24 | 9662.65 | 237.70 | 0.49 | 9665.58 | 1.41 | 470831.24 | 703110.39 | N 32 17 35.89 | W 103 48 35.26 |
| | 19074.00 | 90.80 | 359.83 | 9865.09 | 9760.22 | 9757.65 | 237.71 | 0.51 | 9760.54 | 1.40 | 470926.23 | 703110.40 | N 32 17 36.83 | W 103 48 35.26 |
| | 19168.00 | 90.62 | 359.98 | 9863.92 | 9854.20 | 9851.64 | 237.56 | 0.25 | 9854.50 | 1.38 | 471020.22 | 703110.24 | N 32 17 37.76 | W 103 48 35.25 |
| | 19263.00 | 90.13 | 0.12 | 9863.30 | 9949.19 | 9946.64 | 237.64 | 0.54 | 9949.48 | 1.37 | 471115.21 | 703110.32 | N 32 17 38.70 | W 103 48 35.25 |
| | 19358.00 | 87.66 | 359.82 | 9865.13 | 10044.15 | 10041.61 | 237.59 | 2.62 | 10044.42 | 1.36 | 471210.18 | 703110.27 | N 32 17 39.64 | W 103 48 35.24 |
| | 19452.00 | 89.96 | 0.02 | 9867.09 | 10138.11 | 10135.59 | 237.46 | 2.46 | 10138.37 | 1.34 | 471304.15 | 703110.14 | N 32 17 40.57 | W 103 48 35.24 |
| | 19547.00 | 87.79 | 359.41 | 9868.95 | 10233.06 | 10230.56 | 236.99 | 2.37 | 10233.30 | 1.33 | 471399.11 | 703109.67 | N 32 17 41.51 | W 103 48 35.24 |
| | 19641.00 | 90.40 | 0.08 | 9870.44 | 10327.02 | 10324.54 | 236.57 | 2.87 | 10327.25 | 1.31 | 471493.09 | 703109.25 | N 32 17 42.44 | W 103 48 35.24 |
| | 19736.00 | 90.74 | 359.92 | 9869.49 | 10422.00 | 10419.53 | 236.57 | 0.40 | 10422.22 | 1.30 | 471588.08 | 703109.25 | N 32 17 43.38 | W 103 48 35.23 |
| | 19831.00 | 89.78 | 359.15 | 9869.06 | 10516.97 | 10514.53 | 235.80 | 1.30 | 10517.17 | 1.28 | 471683.06 | 703108.48 | N 32 17 44.32 | W 103 48 35.24 |
| | 19925.00 | 91.58 | 0.03 | 9867.94 | 10610.94 | 10608.51 | 235.12 | 2.13 | 10611.12 | 1.27 | 471777.05 | 703107.81 | N 32 17 45.25 | W 103 48 35.24 |
| | 20020.00 | 90.38 | 0.20 | 9866.32 | 10705.91 | 10703.50 | 235.32 | 1.28 | 10706.08 | 1.26 | 471872.02 | 703108.00 | N 32 17 46.19 | W 103 48 35.23 |
| | 20114.00 | 90.70 | 0.11 | 9865.43 | 10799.90 | 10797.49 | 235.57 | 0.35 | 10800.06 | 1.25 | 471966.01 | 703108.25 | N 32 17 47.12 | W 103 48 35.22 |
| | 20208.00 | 90.66 | 0.04 | 9864.32 | 10893.88 | 10891.49 | 235.69 | 0.09 | 10894.04 | 1.24 | 472060.00 | 703108.38 | N 32 17 48.05 | W 103 48 35.22 |
| | 20301.00 | 89.76 | 0.21 | 9863.98 | 10986.87 | 10984.48 | 235.90 | 0.98 | 10987.02 | 1.23 | 472152.99 | 703108.58 | N 32 17 48.97 | W 103 48 35.21 |

| Comments | MD (ft) | Incl (°) | Azim Grid (°) | TVD (ft) | VSEC (ft) | NS (ft) | EW (ft) | DLS (°/100ft) | Closure (ft) | Closure Azimuth (°) | Northing (ftUS) | Easting (ftUS) | Latitude (N/S ° ' ") | Longitude (E/W ° ' ") |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 20395.00 | 90.28 | 0.01 | 9863.94 | 11080.86 | 11078.48 | 236.08 | 0.59 | 11081.00 | 1.22 | 472246.99 | 703108.76 | N 32 17 49.90 | W 103 48 35.20 |
| | 20490.00 | 91.54 | 0.11 | 9862.44 | 11175.83 | 11173.47 | 236.18 | 1.33 | 11175.97 | 1.21 | 472341.97 | 703108.86 | N 32 17 50.84 | W 103 48 35.19 |
| | 20585.00 | 90.91 | 359.76 | 9860.40 | 11270.80 | 11268.45 | 236.07 | 0.76 | 11270.92 | 1.20 | 472436.94 | 703108.75 | N 32 17 51.78 | W 103 48 35.19 |
| | 20680.00 | 91.26 | 0.01 | 9858.61 | 11365.76 | 11363.43 | 235.88 | 0.45 | 11365.88 | 1.19 | 472531.91 | 703108.56 | N 32 17 52.72 | W 103 48 35.19 |
| | 20774.00 | 93.89 | 0.76 | 9854.38 | 11459.66 | 11457.32 | 236.51 | 2.91 | 11459.77 | 1.18 | 472625.80 | 703109.19 | N 32 17 53.65 | W 103 48 35.17 |
| | 20869.00 | 92.36 | 0.06 | 9849.20 | 11554.51 | 11552.18 | 237.19 | 1.77 | 11554.61 | 1.18 | 472720.65 | 703109.87 | N 32 17 54.59 | W 103 48 35.16 |
| | 20964.00 | 89.27 | 359.29 | 9847.85 | 11649.46 | 11647.15 | 236.65 | 3.35 | 11649.56 | 1.16 | 472815.62 | 703109.33 | N 32 17 55.53 | W 103 48 35.16 |
| | 21059.00 | 89.64 | 359.85 | 9848.76 | 11744.43 | 11742.15 | 235.93 | 0.71 | 11744.52 | 1.15 | 472910.61 | 703108.62 | N 32 17 56.47 | W 103 48 35.16 |
| | 21154.00 | 89.72 | 0.44 | 9849.29 | 11839.42 | 11837.14 | 236.17 | 0.63 | 11839.50 | 1.14 | 473005.60 | 703108.86 | N 32 17 57.41 | W 103 48 35.16 |
| | 21249.00 | 89.45 | 0.32 | 9849.97 | 11934.41 | 11932.14 | 236.80 | 0.31 | 11934.49 | 1.14 | 473100.59 | 703109.49 | N 32 17 58.35 | W 103 48 35.14 |
| | 21345.00 | 89.36 | 0.38 | 9850.97 | 12030.40 | 12028.13 | 237.39 | 0.11 | 12030.47 | 1.13 | 473196.57 | 703110.08 | N 32 17 59.30 | W 103 48 35.13 |
| | 21440.00 | 90.22 | 0.55 | 9851.32 | 12125.40 | 12123.13 | 238.16 | 0.92 | 12125.47 | 1.13 | 473291.56 | 703110.85 | N 32 18 0.24 | W 103 48 35.12 |
| | 21535.00 | 90.77 | 0.66 | 9850.50 | 12220.39 | 12218.12 | 239.16 | 0.59 | 12220.46 | 1.12 | 473386.55 | 703111.85 | N 32 18 1.18 | W 103 48 35.10 |
| | 21630.00 | 90.26 | 359.86 | 9849.65 | 12315.38 | 12313.11 | 239.60 | 1.00 | 12315.44 | 1.11 | 473481.54 | 703112.28 | N 32 18 2.12 | W 103 48 35.09 |
| | 21725.00 | 91.05 | 359.99 | 9848.56 | 12410.36 | 12408.11 | 239.47 | 0.84 | 12410.42 | 1.11 | 473576.52 | 703112.16 | N 32 18 3.06 | W 103 48 35.08 |
| | 21821.00 | 90.66 | 0.05 | 9847.13 | 12506.34 | 12504.09 | 239.50 | 0.41 | 12506.39 | 1.10 | 473672.51 | 703112.19 | N 32 18 4.01 | W 103 48 35.08 |
| | 21916.00 | 90.28 | 359.84 | 9846.35 | 12601.32 | 12599.09 | 239.41 | 0.46 | 12601.37 | 1.09 | 473767.50 | 703112.10 | N 32 18 4.95 | W 103 48 35.07 |
| | 22011.00 | 91.40 | 0.39 | 9844.95 | 12696.30 | 12694.08 | 239.60 | 1.31 | 12696.34 | 1.08 | 473862.48 | 703112.29 | N 32 18 5.89 | W 103 48 35.07 |
| | 22106.00 | 90.54 | 359.82 | 9843.35 | 12791.27 | 12789.06 | 239.78 | 1.09 | 12791.31 | 1.07 | 473957.46 | 703112.46 | N 32 18 6.83 | W 103 48 35.06 |
| | 22201.00 | 91.85 | 0.09 | 9841.37 | 12886.24 | 12884.04 | 239.70 | 1.41 | 12886.27 | 1.07 | 474052.43 | 703112.39 | N 32 18 7.77 | W 103 48 35.06 |
| | 22296.00 | 91.49 | 0.49 | 9838.60 | 12981.19 | 12979.00 | 240.18 | 0.57 | 12981.22 | 1.06 | 474147.38 | 703112.87 | N 32 18 8.71 | W 103 48 35.04 |
| | 22390.00 | 90.78 | 0.58 | 9836.73 | 13075.17 | 13072.98 | 241.06 | 0.76 | 13075.20 | 1.06 | 474241.35 | 703113.75 | N 32 18 9.64 | W 103 48 35.03 |
| | 22485.00 | 89.24 | 359.97 | 9836.72 | 13170.16 | 13167.97 | 241.52 | 1.74 | 13170.19 | 1.05 | 474336.34 | 703114.20 | N 32 18 10.58 | W 103 48 35.02 |
| | 22580.00 | 88.90 | 359.99 | 9838.26 | 13265.13 | 13262.96 | 241.48 | 0.36 | 13265.16 | 1.04 | 474431.32 | 703114.17 | N 32 18 11.52 | W 103 48 35.01 |
| | 22674.00 | 88.70 | 359.90 | 9840.23 | 13359.10 | 13356.94 | 241.39 | 0.23 | 13359.12 | 1.04 | 474525.30 | 703114.08 | N 32 18 12.45 | W 103 48 35.01 |
| | 22768.00 | 88.64 | 0.43 | 9842.41 | 13453.06 | 13450.91 | 241.67 | 0.57 | 13453.08 | 1.03 | 474619.26 | 703114.35 | N 32 18 13.38 | W 103 48 35.00 |
| | 22863.00 | 88.89 | 0.55 | 9844.46 | 13548.04 | 13545.89 | 242.48 | 0.29 | 13548.06 | 1.03 | 474714.23 | 703115.16 | N 32 18 14.32 | W 103 48 34.99 |
| *100' FNL Crossed* | *22942.00* | *88.82* | *0.35* | *9846.04* | *13627.02* | *13624.87* | *243.10* | *0.27* | *13627.04* | *1.02* | *474793.21* | *703115.78* | *N 32 18 15.10* | *W 103 48 34.97* |
| | 22958.00 | 88.80 | 0.31 | 9846.37 | 13643.02 | 13640.86 | 243.19 | 0.27 | 13643.03 | 1.02 | 474809.20 | 703115.87 | N 32 18 15.26 | W 103 48 34.97 |
| Final MWD | 22996.00 | 88.62 | 0.51 | 9847.23 | 13681.00 | 13678.85 | 243.46 | 0.71 | 13681.02 | 1.02 | 474847.19 | 703116.15 | N 32 18 15.63 | W 103 48 34.97 |
| Proj to TD | 23021.00 | 88.62 | 0.51 | 9847.83 | 13706.00 | 13703.85 | 243.68 | 0.00 | 13706.01 | 1.02 | 474872.18 | 703116.37 | N 32 18 15.88 | W 103 48 34.96 |

**Survey Type:** Def Survey

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

| Description | Part | MD From (ft) | MD To (ft) | EOU Freq (ft) | Hole Size (in) | Casing Diameter (in) | Survey Tool Type | Borehole / Survey |
|---|---|---|---|---|---|---|---|---|
| | 1 | 0.000 | 24.000 | 1/98.425 | 26.400 | 26.400 | GYD_GC+DROP+OH-Depth Only | Original Borehole / Oxy Precious 30-18 Federal Com 10H Gyro + MWD 0' to 23021' MD |
| | 1 | 24.000 | 24.000 | Act Stns | 26.400 | 26.400 | GYD_GC+DROP+OH-Depth Only | Original Borehole / Oxy Precious 30-18 Federal Com 10H Gyro + MWD 0' to 23021' MD |
| | 1 | 24.000 | 389.000 | Act Stns | 26.400 | 26.400 | GYD_GC+DROP+OH | Original Borehole / Oxy Precious 30-18 Federal Com 10H Gyro + |
| | 1 | 389.000 | 4117.500 | Act Stns | 26.400 | 26.400 | B001Mb_MWD+HRGM | Original Borehole / Oxy Precious 30-18 Federal Com 10H Gyro + |
| | 1 | 4117.500 | 23021.000 | Act Stns | 26.400 | 26.400 | A010Mb_MWD+IFR1+SAG+MS | Original Borehole / Oxy Precious 30-18 Federal Com 10H Gyro + MWD 0' to 23021' MD |

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

| | |
|---|---|
| Operator:<br>OXY USA INC<br>P.O. Box 4294<br>Houston, TX 772104294 | OGRID:<br>16696 |
| | Action Number:<br>24273 |
| | Action Type:<br>[C-104] Completion Packet (C-104C) |

**ACKNOWLEDGMENTS**

| | |
|---|---|
| ☐ | I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion. |
| ☐ | I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion. |

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CONDITIONS

Action 24273

## CONDITIONS

| | |
|---|---|
| Operator:<br>OXY USA INC<br>P.O. Box 4294<br>Houston, TX 772104294 | OGRID:<br>16696 |
| | Action Number:<br>24273 |
| | Action Type:<br>[C-104] Completion Packet (C-104C) |

**CONDITIONS**

| Created By | Condition | Condition Date |
|---|---|---|
| ksimmons | RT C-104 EXPIRES 07/15/2021 | 6/10/2021 |