

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

RECEIVED
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 PLAT AS-DRILLED PLAT

| | | |
|--|---|---|
| ¹ API Number 30-015- 45772 | ² Pool Code 98220 | ³ Pool Name PURPLE SAGE; WOLFCAMP |
| ⁴ Property Code 98220 | ⁵ Property Name LONE WATIE 32 STATE | |
| ⁷ OGRID No. 005380 | ⁸ Operator Name XTO ENERGY, INC. | |
| | | ⁶ Well Number 168H |
| | | ⁹ Elevation 2,980' |

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 | 32 | 25 S | 29 E | | 336 | NORTH | 695 | EAST | EDDY |

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 |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| P | 32 | 25 S | 29 E | | 202 | SOUTH | 305 | EAST | EDDY |

| | | | |
|--------------------------------------|-------------------------------|----------------------------------|-------------------------|
| ¹² Dedicated Acres 320 | ¹³ Joint or Infill | ¹⁴ Consolidation Code | ¹⁵ 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.
NOTE: AS-DRILLED BOTTOM HOLE PLOTTED FROM DATA FURNISHED BY XTO ENERGY

16

SEC. 29 **SEC. 28** SURFACE LOCATION SURFACE LOCATION

NAD 83 NME NAD 27 NME
Y= 397,594.6 Y= 397,536.5
X= 644,529.7 X= 603,345.0
LAT.= 32.092629°N LAT.= 32.092504°N
LONG.= 104.000108°W LONG.= 103.999622°W

K.O.P. K.O.P.
MD=10,309' MD=10,309'

NAD 83 NME NAD 27 NME
Y= 397,829.5 Y= 397,771.4
X= 644,853.6 X= 603,668.9
LAT.= 32.093272°N LAT.= 32.093147°N
LONG.= 103.999059°W LONG.= 103.998574°W

FIRST TAKE POINT FIRST TAKE POINT
NAD 83 NME NAD 27 NME
Y= 397,362.8 Y= 397,304.7
X= 644,869.3 X= 603,684.6
LAT.= 32.091989°N LAT.= 32.091864°N
LONG.= 103.999014°W LONG.= 103.998528°W

CORNER COORDINATES TABLE
NAD 83 NME
A - Y= 397,933.6 N, X= 643,902.8 E
B - Y= 397,927.3 N, X= 645,225.4 E
C - Y= 395,276.7 N, X= 643,895.4 E
D - Y= 395,276.1 N, X= 645,222.7 E
E - Y= 392,616.1 N, X= 643,888.3 E
F - Y= 392,621.5 N, X= 645,220.8 E

CORNER COORDINATES TABLE
NAD 27 NME
A - Y= 397,875.5 N, X= 602,718.1 E
B - Y= 397,869.2 N, X= 604,040.7 E
C - Y= 395,218.7 N, X= 602,710.6 E
D - Y= 395,218.1 N, X= 604,037.9 E
E - Y= 392,558.1 N, X= 602,703.5 E
F - Y= 392,563.5 N, X= 604,035.9 E

LAST TAKE POINT LAST TAKE POINT
NAD 83 NME NAD 27 NME
Y= 392,966.4 Y= 392,908.4
X= 644,920.8 X= 603,736.0
LAT.= 32.079903°N LAT.= 32.079778°N
LONG.= 103.998891°W LONG.= 103.998406°W

BOTTOM HOLE LOCATION **BOTTOM HOLE LOCATION**
NAD 83 NME NAD 27 NME
Y= 392,822.5 Y= 392,764.5
X= 644,915.8 X= 603,731.0
LAT.= 32.079507°N LAT.= 32.079383°N
LONG.= 103.998909°W LONG.= 103.998424°W

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.

Cheryl Rowell 1/14/20
Signature Date

Cheryl Rowell
Printed Name

cheryl_rowell@xtoenergy.com
E-mail Address

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

1-14-2020
Date of Survey

Signature and Seal of Professional Surveyor:

MARK DILLON HARP
NEW MEXICO
23786
PROFESSIONAL SURVEYOR

MARK DILLON HARP 23786
Certificate Number RR/JC 2019010140

RECEIVED

JAN 16 2020

EMNRD-OCD ARTESIA

Intent As Drilled

| | | |
|-----------------------------------|---------------------------------------|---------------------|
| API # 30-015-45772 | | |
| Operator Name: XTO ENERGY INC. | Property Name: LONE WATIE 32 STATE | Well Number 168H |

Kick Off Point (KOP)

| UL | Section | Township | Range | Lot | Feet | From N/S | Feet | From E/W | County |
|-----------------------|---------|----------|-------|-----|-------------------------|----------|------|----------|-----------|
| A | 32 | 25S | 29E | | 100 | N | 372 | E | Eddy |
| Latitude 32.093272 | | | | | Longitude 103.999059 | | | | NAD 83 |

First Take Point (FTP)

| UL | Section | Township | Range | Lot | Feet | From N/S | Feet | From E/W | County |
|-----------------------|---------|----------|-------|-----|-------------------------|----------|------|----------|-----------|
| A | 32 | 25S | 29E | | 566 | N | 356 | E | Eddy |
| Latitude 32.091989 | | | | | Longitude 103.999014 | | | | NAD 83 |

Last Take Point (LTP)

| UL | Section | Township | Range | Lot | Feet | From N/S | Feet | From E/W | County |
|-----------------------|---------|----------|-------|-----|-------------------------|----------|------|----------|-----------|
| P | 32 | 25S | 29E | | 346 | S | 300 | E | Eddy |
| Latitude 32.079903 | | | | | Longitude 103.998891 | | | | NAD 83 |

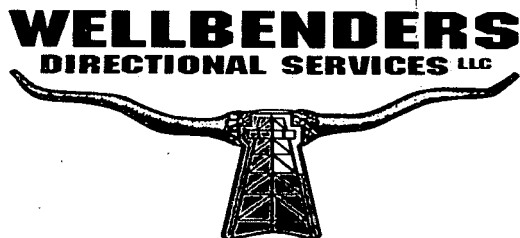
↳ 330
↳ 280 OK,

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

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 |



State of New Mexico
County of Eddy

I, Jeremy Esqueda, certify that: I am employed by WellBenders Directional Services LLC; that I did on the day(s) of May 17, 2019 through May 24, 2019 conduct or supervise the taking of MWD Directional Survey from a depth of 205 feet to a depth of 10,155 feet; that the data is true, correct, complete and within the limitations of the tool as set forth by WellBenders Directional Services LLC; that I am authorized and qualified to make this report; that this survey was conducted at the request of XTO Energy Inc. for the State of New Mexico; Well: Lone Waite 32 State 168H in Eddy County; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by WellBenders Directional Services LLC.

Jeremy Esqueda
Sign Name

Jeremy Esqueda
MWD Manager
Digitally Signed by Jeremy Esqueda

Quintana Energy Services

11390 FM 830

Willis, TX 77318

Phone: (936) 856-4332

Fax: (936)-856-8678



Survey Certification Sheet

| Company | Job Number | Date |
|------------------|------------|-----------|
| XTO Energy, Inc. | WT-190725 | 6/18/2019 |

| Lease | Well Name | County & State |
|--------------------|---------------------------|-----------------|
| SEC 32, T25S, R29E | Lone Watie 32 State #168H | Eddy County, NM |

| API No. | Survey Depth Range | Survey Type |
|--------------|-----------------------------|-------------|
| 30-015-45772 | 10155 feet to 15689 feet MD | MWD |

| Sidetrack Information | Directional Supervisor/Surveyor |
|---------------------------|---------------------------------|
| Click here to enter text. | Jeff Newton |

Certification Statement

The data and calculations for this survey have been checked by me and conform to the standards and procedures set forth by Quintana Energy Services (QES). This report represents a true and correct directional survey of this well based on the original data obtained at the well site. Wellbore coordinates are calculated using minimum curvature.

Christopher Hughes

Digitally signed by Christopher Hughes
DN: cn=Christopher Hughes, o=QES, ou,
email=chrish@qeslp.com, c=US
Date: 2019.07.17 09:05:21 -05'00'

Christopher Hughes
MWD Compliance Manager
Quintana Energy Services



Survey Report



| | | | |
|-----------|---------------------------|------------------------------|------------------------------------|
| Company: | XTO ENERGY, INC. | Local Co-ordinate Reference: | Well Lone Watie 32 State #168H |
| Project: | Eddy County, NM | TVD Reference: | KB=23' @ 3003.0usft (Nabors M7507) |
| Site: | Sec 32, T25S, R29E | MD Reference: | KB=23' @ 3003.0usft (Nabors M7507) |
| Well: | Lone Watie 32 State #168H | North Reference: | Grid |
| Wellbore: | Wellbore #1 | Survey Calculation Method: | Minimum Curvature |
| Design: | Wellbore #1 | Database: | EDM 5000.1 Single User Db |

| | | | |
|-------------|--------------------------------------|---------------|----------------|
| Project | Eddy County, NM | | |
| Map System: | US State Plane 1927 (Exact solution) | System Datum: | Mean Sea Level |
| Geo Datum: | NAD 1927 (NADCON CONUS) | | |
| Map Zone: | New Mexico East 3001 | | |

| | | | |
|-----------------------|--------------------|-------------------|-------------------|
| Site | Sec 32, T25S, R29E | | |
| Site Position: | Map | Northing: | 397,536.50 usft |
| From: | | Easting: | 603,345.00 usft |
| Position Uncertainty: | 0.0 usft | Slot Radius: | 13-3/16 " |
| | | Latitude: | 32° 5' 33.015 N |
| | | Longitude: | 103° 59' 58.639 W |
| | | Grid Convergence: | 0.18 ° |

| | | | | | | |
|----------------------|---------------------------|----------|---------------------|-----------------|---------------|-------------------|
| Well | Lone Watie 32 State #168H | | | | | |
| Well Position | +N-S | 0.0 usft | Northing: | 397,536.50 usft | Latitude: | 32° 5' 33.015 N |
| | +E-W | 0.0 usft | Easting: | 603,345.00 usft | Longitude: | 103° 59' 58.639 W |
| Position Uncertainty | | 0.0 usft | Wellhead Elevation: | usft | Ground Level: | 2,980.0 usft |

| | | | | | |
|-----------|--------------|-------------|-----------------|---------------|---------------------|
| Wellbore | Wellbore #1 | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | User Defined | 5/9/2019 | 6.95 | 59.77 | 47,815.00000000 |

| | | | | | |
|-------------------|-------------------------|-------------|-------------|---------------|-----|
| Design | Wellbore #1 | | | | |
| Audit Notes: | | | | | |
| Version: | 1.0 | Phase: | ACTUAL | Tie On Depth: | 0.0 |
| Vertical Section: | Depth From (TVD) (usft) | +N-S (usft) | +E-W (usft) | Direction (°) | |
| | 0.0 | 0.0 | 0.0 | 175.67 | |

| | | | | |
|----------------|-----------|-------------------------------|-----------|---------------------|
| Survey Program | Date | 6/12/2019 | | |
| From (usft) | To (usft) | Survey (Wellbore) | Tool Name | Description |
| 205.0 | 10,155.0 | Survey #1 (Wellbore #1) | MWD | OWSG MWD - Standard |
| 10,236.0 | 15,689.0 | QES MWD Surveys (Wellbore #1) | MWD | OWSG MWD - Standard |

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N-S (usft) | +E-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|-----------------------|-----------------|-------------|-----------------------|-------------|-------------|-------------------------|-------------------------|------------------------|-----------------------|
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 205.0 | 1.30 | 239.00 | 205.0 | -1.2 | -2.0 | 1.0 | 0.63 | 0.63 | 0.00 |
| 300.0 | 2.80 | 242.00 | 299.9 | -2.8 | -5.0 | 2.5 | 1.58 | 1.58 | 3.16 |
| 422.0 | 2.88 | 242.00 | 421.8 | -5.7 | -10.3 | 4.9 | 0.07 | 0.07 | 0.00 |
| 483.0 | 4.60 | 229.00 | 482.6 | -8.0 | -13.5 | 7.0 | 3.13 | 2.82 | -21.31 |
| 603.0 | 4.70 | 231.23 | 602.2 | -14.2 | -21.0 | 12.6 | 0.17 | 0.08 | 1.86 |
| 698.0 | 4.20 | 228.90 | 697.0 | -19.0 | -26.6 | 16.9 | 0.56 | -0.53 | -2.45 |
| 762.0 | 2.11 | 231.50 | 760.9 | -21.2 | -29.3 | 19.0 | 3.27 | -3.27 | 4.06 |
| 856.0 | 1.71 | 210.75 | 854.8 | -23.5 | -31.4 | 21.1 | 0.84 | -0.43 | -22.07 |
| 951.0 | 1.19 | 137.98 | 949.8 | -25.5 | -31.4 | 23.0 | 1.86 | -0.55 | -76.60 |



Survey Report



| | | | |
|-----------|---------------------------|------------------------------|------------------------------------|
| Company: | XTO ENERGY, INC. | Local Co-ordinate Reference: | Well Lone Watie 32 State #168H |
| Project: | Eddy County, NM | TVD Reference: | KB=23' @ 3003.0usft (Nabors M7507) |
| Site: | Sec 32, T25S, R29E | MD Reference: | KB=23' @ 3003.0usft (Nabors M7507) |
| Well: | Lone Watie 32 State #168H | North Reference: | Grid |
| Wellbore: | Wellbore #1 | Survey Calculation Method: | Minimum Curvature |
| Design: | Wellbore #1 | Database: | EDM 5000.1 Single User Db |

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|--|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 1,046.0 | 2.42 | 97.99 | 1,044.7 | -26.5 | -28.8 | 24.2 | 1.78 | 1.29 | -42.09 |
| 1,140.0 | 3.30 | 70.66 | 1,138.6 | -25.9 | -24.3 | 24.0 | 1.70 | 0.94 | -29.07 |
| 1,235.0 | 2.90 | 36.73 | 1,233.5 | -23.0 | -20.3 | 21.4 | 1.95 | -0.42 | -35.72 |
| 1,331.0 | 2.90 | 37.70 | 1,329.4 | -19.2 | -17.3 | 17.8 | 0.05 | 0.00 | 1.01 |
| 1,426.0 | 2.99 | 18.98 | 1,424.2 | -14.9 | -15.1 | 13.7 | 1.01 | 0.09 | -19.71 |
| 1,520.0 | 3.21 | 11.15 | 1,518.1 | -10.0 | -13.7 | 9.0 | 0.51 | 0.23 | -8.33 |
| 1,614.0 | 3.30 | 39.50 | 1,612.0 | -5.3 | -11.5 | 4.5 | 1.70 | 0.10 | 30.16 |
| 1,708.0 | 1.80 | 62.00 | 1,705.9 | -2.6 | -8.5 | 1.9 | 1.89 | -1.60 | 23.94 |
| 1,803.0 | 1.70 | 61.20 | 1,800.8 | -1.2 | -5.9 | 0.7 | 0.11 | -0.11 | -0.84 |
| 1,898.0 | 2.30 | 54.10 | 1,895.8 | 0.6 | -3.2 | -0.8 | 0.68 | 0.63 | -7.47 |
| 1,992.0 | 2.20 | 58.80 | 1,989.7 | 2.6 | -0.1 | -2.6 | 0.22 | -0.11 | 5.00 |
| 2,086.0 | 2.40 | 54.10 | 2,083.6 | 4.7 | 3.0 | -4.5 | 0.29 | 0.21 | -5.00 |
| 330' HL Crossed @ 2137.3'MD / 2134.9' TVD | | | | | | | | | |
| 2,137.3 | 2.40 | 54.10 | 2,134.9 | 6.0 | 4.8 | -5.6 | 0.00 | 0.00 | 0.00 |
| 2,181.0 | 2.40 | 53.90 | 2,178.5 | 7.1 | 6.3 | -6.6 | 0.02 | 0.00 | -0.46 |
| 2,275.0 | 2.60 | 57.70 | 2,272.4 | 9.4 | 9.7 | -8.6 | 0.28 | 0.21 | 4.04 |
| 2,370.0 | 2.50 | 66.80 | 2,367.4 | 11.3 | 13.4 | -10.3 | 0.44 | -0.11 | 9.58 |
| 2,465.0 | 2.50 | 70.70 | 2,462.3 | 12.8 | 17.2 | -11.5 | 0.18 | 0.00 | 4.11 |
| 2,560.0 | 1.90 | 79.60 | 2,557.2 | 13.8 | 20.7 | -12.2 | 0.72 | -0.63 | 9.37 |
| 2,653.0 | 1.90 | 71.30 | 2,650.1 | 14.6 | 23.7 | -12.8 | 0.30 | 0.00 | -8.92 |
| 2,747.0 | 3.20 | 54.20 | 2,744.0 | 16.6 | 27.3 | -14.5 | 1.59 | 1.38 | -18.19 |
| 2,839.0 | 3.00 | 51.50 | 2,835.9 | 19.6 | 31.3 | -17.2 | 0.27 | -0.22 | -2.93 |
| 2,934.0 | 2.90 | 48.80 | 2,930.8 | 22.8 | 35.1 | -20.0 | 0.18 | -0.11 | -2.84 |
| 3,029.0 | 2.80 | 46.80 | 3,025.7 | 25.9 | 38.6 | -22.9 | 0.15 | -0.11 | -2.11 |
| 3,124.0 | 2.80 | 45.20 | 3,120.6 | 29.1 | 41.9 | -25.9 | 0.08 | 0.00 | -1.68 |
| 3,219.0 | 2.60 | 44.00 | 3,215.4 | 32.3 | 45.0 | -28.8 | 0.22 | -0.21 | -1.26 |
| 3,315.0 | 2.50 | 43.10 | 3,311.4 | 35.4 | 48.0 | -31.7 | 0.11 | -0.10 | -0.94 |
| 3,406.0 | 2.40 | 44.30 | 3,402.3 | 38.2 | 50.7 | -34.3 | 0.12 | -0.11 | 1.32 |
| 3,502.0 | 3.70 | 41.40 | 3,498.1 | 42.0 | 54.1 | -37.8 | 1.36 | 1.35 | -3.02 |
| 3,525.0 | 2.20 | 49.60 | 3,521.1 | 42.8 | 54.9 | -38.6 | 6.76 | -6.52 | 35.65 |
| 3,596.0 | 4.00 | 39.50 | 3,592.0 | 45.6 | 57.6 | -41.2 | 2.64 | 2.54 | -14.23 |
| 3,691.0 | 3.90 | 38.80 | 3,686.8 | 50.7 | 61.7 | -45.9 | 0.12 | -0.11 | -0.74 |
| 3,785.0 | 3.70 | 39.90 | 3,780.6 | 55.5 | 65.6 | -50.4 | 0.23 | -0.21 | 1.17 |
| 3,880.0 | 3.50 | 39.20 | 3,875.4 | 60.1 | 69.4 | -54.7 | 0.22 | -0.21 | -0.74 |
| 3,975.0 | 3.40 | 36.60 | 3,970.2 | 64.6 | 72.9 | -58.9 | 0.20 | -0.11 | -2.74 |
| 4,070.0 | 3.60 | 30.00 | 4,065.0 | 69.5 | 76.1 | -63.5 | 0.47 | 0.21 | -6.95 |
| 4,164.0 | 3.90 | 26.50 | 4,158.8 | 74.9 | 79.0 | -68.7 | 0.40 | 0.32 | -3.72 |
| 4,258.0 | 3.60 | 47.50 | 4,252.6 | 79.8 | 82.6 | -73.3 | 1.49 | -0.32 | 22.34 |
| 4,353.0 | 4.40 | 61.70 | 4,347.4 | 83.5 | 88.0 | -76.6 | 1.33 | 0.84 | 14.95 |
| 4,447.0 | 4.40 | 61.60 | 4,441.1 | 86.9 | 94.4 | -79.5 | 0.01 | 0.00 | -0.11 |
| 4,542.0 | 4.40 | 61.20 | 4,535.8 | 90.4 | 100.8 | -82.5 | 0.03 | 0.00 | -0.42 |
| 4,637.0 | 4.20 | 61.80 | 4,630.6 | 93.8 | 107.0 | -85.5 | 0.22 | -0.21 | 0.63 |
| 4,732.0 | 4.10 | 62.00 | 4,725.3 | 97.0 | 113.1 | -88.2 | 0.11 | -0.11 | 0.21 |



Survey Report



| | | | |
|------------------|---------------------------|-------------------------------------|------------------------------------|
| Company: | XTO ENERGY, INC. | Local Co-ordinate Reference: | Well Lone Watie 32 State #168H |
| Project: | Eddy County, NM | TVD Reference: | KB=23' @ 3003.0usft (Nabors M7507) |
| Site: | Sec 32, T25S, R29E | MD Reference: | KB=23' @ 3003.0usft (Nabors M7507) |
| Well: | Lone Watie 32 State #168H | North Reference: | Grid |
| Wellbore: | Wellbore #1 | Survey Calculation Method: | Minimum Curvature |
| Design: | Wellbore #1 | Database: | EDM 5000.1 Single User Db |

Survey

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 4,826.0 | 4.20 | 59.90 | 4,819.1 | 100.4 | 119.0 | -91.1 | 0.19 | 0.11 | -2.23 |
| 4,920.0 | 4.10 | 61.30 | 4,912.8 | 103.7 | 125.0 | -94.0 | 0.15 | -0.11 | 1.49 |
| 5,015.0 | 4.00 | 60.40 | 5,007.6 | 107.0 | 130.8 | -96.8 | 0.12 | -0.11 | -0.95 |
| 5,109.0 | 4.00 | 57.80 | 5,101.4 | 110.3 | 136.5 | -99.7 | 0.19 | 0.00 | -2.77 |
| 5,202.0 | 3.70 | 57.80 | 5,194.2 | 113.7 | 141.7 | -102.6 | 0.32 | -0.32 | 0.00 |
| 5,296.0 | 3.50 | 57.70 | 5,288.0 | 116.8 | 146.7 | -105.4 | 0.21 | -0.21 | -0.11 |
| 5,391.0 | 3.30 | 60.60 | 5,382.8 | 119.7 | 151.6 | -107.9 | 0.28 | -0.21 | 3.05 |
| 5,486.0 | 2.90 | 62.70 | 5,477.7 | 122.1 | 156.1 | -110.0 | 0.44 | -0.42 | 2.21 |
| 5,581.0 | 2.60 | 60.00 | 5,572.6 | 124.3 | 160.1 | -111.9 | 0.34 | -0.32 | -2.84 |
| 5,675.0 | 2.60 | 60.90 | 5,666.5 | 126.4 | 163.8 | -113.7 | 0.04 | 0.00 | 0.96 |
| 5,770.0 | 2.40 | 63.20 | 5,761.4 | 128.4 | 167.5 | -115.4 | 0.24 | -0.21 | 2.42 |
| 5,863.0 | 2.90 | 48.10 | 5,854.3 | 130.8 | 170.9 | -117.5 | 0.92 | 0.54 | -16.24 |
| 5,957.0 | 3.00 | 50.00 | 5,948.1 | 134.0 | 174.6 | -120.4 | 0.15 | 0.11 | 2.02 |
| 6,052.0 | 2.80 | 53.40 | 6,043.0 | 137.0 | 178.4 | -123.1 | 0.28 | -0.21 | 3.58 |
| 6,146.0 | 2.60 | 56.40 | 6,136.9 | 139.5 | 182.0 | -125.4 | 0.26 | -0.21 | 3.19 |
| 6,240.0 | 2.70 | 51.60 | 6,230.8 | 142.1 | 185.5 | -127.7 | 0.26 | 0.11 | -5.11 |
| 6,336.0 | 2.80 | 50.50 | 6,326.7 | 145.0 | 189.1 | -130.3 | 0.12 | 0.10 | -1.15 |
| 6,430.0 | 2.70 | 50.20 | 6,420.6 | 147.8 | 192.5 | -132.9 | 0.11 | -0.11 | -0.32 |
| 6,526.0 | 2.20 | 49.60 | 6,516.5 | 150.5 | 195.7 | -135.3 | 0.52 | -0.52 | -0.63 |
| 6,621.0 | 2.00 | 48.20 | 6,611.4 | 152.8 | 198.3 | -137.4 | 0.22 | -0.21 | -1.47 |
| 6,716.0 | 1.60 | 49.50 | 6,706.4 | 154.7 | 200.6 | -139.2 | 0.42 | -0.42 | 1.37 |
| 6,810.0 | 1.40 | 28.30 | 6,800.4 | 156.6 | 202.1 | -140.9 | 0.62 | -0.21 | -22.55 |
| 6,904.0 | 2.90 | 23.50 | 6,894.3 | 159.8 | 203.6 | -144.0 | 1.61 | 1.60 | -5.11 |
| 6,998.0 | 2.00 | 45.40 | 6,988.2 | 163.1 | 205.7 | -147.1 | 1.37 | -0.96 | 23.30 |
| 7,092.0 | 2.30 | 41.60 | 7,082.1 | 165.7 | 208.1 | -149.5 | 0.35 | 0.32 | -4.04 |
| 7,187.0 | 2.50 | 47.50 | 7,177.1 | 168.5 | 210.9 | -152.1 | 0.33 | 0.21 | 6.21 |
| 7,280.0 | 2.40 | 54.90 | 7,270.0 | 171.0 | 214.0 | -154.4 | 0.36 | -0.11 | 7.96 |
| 7,374.0 | 3.20 | 43.20 | 7,363.9 | 174.0 | 217.4 | -157.1 | 1.04 | 0.85 | -12.45 |
| 7,467.0 | 2.30 | 54.80 | 7,456.8 | 177.0 | 220.7 | -159.8 | 1.13 | -0.97 | 12.47 |
| 7,561.0 | 2.30 | 77.10 | 7,550.7 | 178.5 | 224.1 | -161.1 | 0.95 | 0.00 | 23.72 |
| 7,655.0 | 2.30 | 56.70 | 7,644.6 | 180.0 | 227.5 | -162.3 | 0.87 | 0.00 | -21.70 |
| 7,748.0 | 3.30 | 49.40 | 7,737.5 | 182.7 | 231.1 | -164.8 | 1.14 | 1.08 | -7.85 |
| 7,842.0 | 2.50 | 43.80 | 7,831.4 | 186.0 | 234.6 | -167.7 | 0.90 | -0.85 | -5.96 |
| 7,937.0 | 1.50 | 33.10 | 7,926.3 | 188.5 | 236.7 | -170.1 | 1.12 | -1.05 | -11.26 |
| 8,032.0 | 2.30 | 28.50 | 8,021.3 | 191.2 | 238.3 | -172.7 | 0.86 | 0.84 | -4.84 |
| 8,126.0 | 2.90 | 68.90 | 8,115.2 | 193.8 | 241.4 | -175.0 | 2.00 | 0.64 | 42.98 |
| 8,221.0 | 2.10 | 100.30 | 8,210.1 | 194.3 | 245.4 | -175.2 | 1.64 | -0.84 | 33.05 |
| 8,314.0 | 2.80 | 80.80 | 8,303.0 | 194.4 | 249.3 | -175.0 | 1.16 | 0.75 | -20.97 |
| 8,408.0 | 2.30 | 73.30 | 8,396.9 | 195.3 | 253.3 | -175.6 | 0.64 | -0.53 | -7.98 |
| 8,502.0 | 1.70 | 76.70 | 8,490.9 | 196.1 | 256.5 | -176.2 | 0.65 | -0.64 | 3.62 |
| 8,596.0 | 1.70 | 72.20 | 8,584.8 | 196.9 | 259.2 | -176.8 | 0.14 | 0.00 | -4.79 |
| 8,690.0 | 2.00 | 86.40 | 8,678.8 | 197.4 | 262.2 | -177.1 | 0.58 | 0.32 | 15.11 |
| 8,784.0 | 3.40 | 92.90 | 8,772.7 | 197.4 | 266.6 | -176.7 | 1.52 | 1.49 | 6.91 |



Survey Report



| | | | |
|-----------|---------------------------|------------------------------|------------------------------------|
| Company: | XTO ENERGY, INC. | Local Co-ordinate Reference: | Well Lone Watie 32 State #168H |
| Project: | Eddy County, NM | TVD Reference: | KB=23' @ 3003.0usft (Nabors M7507) |
| Site: | Sec 32, T25S, R29E | MD Reference: | KB=23' @ 3003.0usft (Nabors M7507) |
| Well: | Lone Watie 32 State #168H | North Reference: | Grid |
| Wellbore: | Wellbore #1 | Survey Calculation Method: | Minimum Curvature |
| Design: | Wellbore #1 | Database: | EDM 5000.1 Single User Db |

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | |
|---|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|--|
| 8,878.0 | 2.90 | 106.40 | 8,866.5 | 196.6 | 271.6 | -175.5 | 0.95 | -0.53 | 14.36 | |
| 8,973.0 | 2.80 | 87.40 | 8,961.4 | 196.0 | 276.3 | -174.6 | 1.00 | -0.11 | -20.00 | |
| 9,067.0 | 3.90 | 79.90 | 9,055.2 | 196.7 | 281.7 | -174.8 | 1.26 | 1.17 | -7.98 | |
| 9,162.0 | 2.50 | 69.90 | 9,150.1 | 197.9 | 286.8 | -175.7 | 1.58 | -1.47 | -10.53 | |
| 9,256.0 | 1.80 | 74.10 | 9,244.0 | 199.0 | 290.2 | -176.6 | 0.76 | -0.74 | 4.47 | |
| 9,349.0 | 1.30 | 73.40 | 9,337.0 | 199.7 | 292.6 | -177.1 | 0.54 | -0.54 | -0.75 | |
| 9,444.0 | 1.60 | 66.70 | 9,432.0 | 200.6 | 294.8 | -177.7 | 0.36 | 0.32 | -7.05 | |
| 9,539.0 | 2.10 | 47.10 | 9,526.9 | 202.3 | 297.3 | -179.3 | 0.84 | 0.53 | -20.63 | |
| 9,634.0 | 2.60 | 49.70 | 9,621.8 | 204.9 | 300.3 | -181.6 | 0.54 | 0.53 | 2.74 | |
| 9,729.0 | 3.40 | 37.70 | 9,716.7 | 208.5 | 303.6 | -185.0 | 1.07 | 0.84 | -12.63 | |
| 9,824.0 | 3.80 | 42.60 | 9,811.5 | 213.0 | 307.5 | -189.2 | 0.53 | 0.42 | 5.16 | |
| 9,919.0 | 3.60 | 43.60 | 9,906.3 | 217.5 | 311.7 | -193.4 | 0.22 | -0.21 | 1.05 | |
| 10,014.0 | 3.30 | 41.30 | 10,001.1 | 221.7 | 315.5 | -197.3 | 0.35 | -0.32 | -2.42 | |
| 10,109.0 | 3.50 | 30.90 | 10,096.0 | 226.3 | 318.8 | -201.6 | 0.68 | 0.21 | -10.95 | |
| MWD Tie-in @ 10155.0' MD / 10141.9' TVD | | | | | | | | | | |
| 10,155.0 | 3.20 | 33.30 | 10,141.9 | 228.5 | 320.2 | -203.7 | 0.72 | -0.65 | 5.22 | |
| 10,236.0 | 2.71 | 28.23 | 10,222.8 | 232.1 | 322.4 | -207.1 | 0.69 | -0.60 | -6.26 | |
| 10,301.0 | 2.50 | 27.04 | 10,287.7 | 234.7 | 323.8 | -209.6 | 0.33 | -0.32 | -1.83 | |
| 10,332.0 | 1.31 | 105.21 | 10,318.7 | 235.2 | 324.4 | -210.1 | 8.30 | -3.84 | 252.16 | |
| 10,364.0 | 4.68 | 148.94 | 10,350.7 | 234.0 | 325.4 | -208.8 | 12.00 | 10.53 | 136.66 | |
| 10,396.0 | 8.90 | 152.14 | 10,382.4 | 230.7 | 327.3 | -205.4 | 13.24 | 13.19 | 10.00 | |
| 10,428.0 | 11.67 | 159.10 | 10,413.9 | 225.5 | 329.6 | -200.0 | 9.47 | 8.66 | 21.75 | |
| 10,459.0 | 14.31 | 163.99 | 10,444.1 | 218.9 | 331.8 | -193.2 | 9.22 | 8.52 | 15.77 | |
| 10,490.0 | 15.92 | 167.32 | 10,474.0 | 211.1 | 333.7 | -185.3 | 5.90 | 5.19 | 10.74 | |
| 10,522.0 | 17.38 | 167.29 | 10,504.7 | 202.1 | 335.8 | -176.2 | 4.56 | 4.56 | -0.09 | |
| 10,553.0 | 18.22 | 170.89 | 10,534.2 | 192.8 | 337.5 | -166.8 | 4.46 | 2.71 | 11.61 | |
| 10,633.0 | 21.18 | 172.40 | 10,609.5 | 166.1 | 341.4 | -139.9 | 3.75 | 3.70 | 1.89 | |
| 10,665.0 | 25.60 | 174.17 | 10,638.9 | 153.5 | 342.9 | -127.2 | 13.98 | 13.81 | 5.53 | |
| 10,696.0 | 31.52 | 178.62 | 10,666.1 | 138.8 | 343.8 | -112.4 | 20.28 | 19.10 | 14.35 | |
| 10,728.0 | 38.98 | 182.08 | 10,692.2 | 120.3 | 343.6 | -94.0 | 24.13 | 23.31 | 10.81 | |
| 10,759.0 | 43.85 | 181.70 | 10,715.5 | 99.8 | 342.9 | -73.6 | 15.73 | 15.71 | -1.23 | |
| 10,793.0 | 47.01 | 180.95 | 10,739.3 | 75.6 | 342.4 | -49.5 | 9.43 | 9.29 | -2.21 | |
| 10,825.0 | 49.86 | 180.29 | 10,760.6 | 51.7 | 342.1 | -25.7 | 9.04 | 8.91 | -2.06 | |
| 10,856.0 | 53.19 | 181.40 | 10,779.8 | 27.4 | 341.8 | -1.5 | 11.10 | 10.74 | 3.58 | |
| 330' HL Crossed @ 10884.1' MD / 10795.9' TVD | | | | | | | | | | |
| 10,884.1 | 56.97 | 182.54 | 10,795.9 | 4.4 | 341.0 | 21.4 | 13.87 | 13.47 | 4.06 | |
| 10,888.0 | 57.50 | 182.69 | 10,798.0 | 1.1 | 340.8 | 24.6 | 13.87 | 13.49 | 3.85 | |
| 10,919.0 | 61.75 | 183.47 | 10,813.7 | -25.6 | 339.4 | 51.1 | 13.88 | 13.71 | 2.52 | |
| 10,950.0 | 63.55 | 181.86 | 10,828.0 | -53.1 | 338.1 | 78.5 | 7.42 | 5.81 | -5.19 | |
| 10,981.0 | 65.59 | 181.27 | 10,841.3 | -81.1 | 337.3 | 106.3 | 6.80 | 6.58 | -1.90 | |
| 11,013.0 | 68.54 | 178.77 | 10,853.7 | -110.5 | 337.3 | 135.7 | 11.69 | 9.22 | -7.81 | |
| 11,044.0 | 71.81 | 178.99 | 10,864.2 | -139.7 | 337.9 | 164.8 | 10.57 | 10.55 | 0.71 | |
| 11,076.0 | 77.59 | 179.71 | 10,872.7 | -170.6 | 338.3 | 195.6 | 18.19 | 18.06 | 2.25 | |
| 11,107.0 | 81.21 | 178.36 | 10,878.4 | -201.0 | 338.8 | 226.0 | 12.44 | 11.68 | -4.35 | |



Survey Report



| | | | |
|------------------|---------------------------|-------------------------------------|------------------------------------|
| Company: | XTO ENERGY, INC. | Local Co-ordinate Reference: | Well Lone Watie 32 State #168H |
| Project: | Eddy County, NM | TVD Reference: | KB=23' @ 3003.0usft (Nabors M7507) |
| Site: | Sec.32, T25S, R29E | MD Reference: | KB=23' @ 3003.0usft (Nabors M7507) |
| Well: | Lone Watie 32 State #168H | North Reference: | Grid |
| Wellbore: | Wellbore #1 | Survey Calculation Method: | Minimum Curvature |
| Design: | Wellbore #1 | Database: | EDM 5000.1 Single User Db |

| Survey | | | | | | | | | | |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|--|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | |
| 11,138.0 | 83.89 | 178.64 | 10,882.4 | -231.7 | 339.6 | 256.7 | 8.69 | 8.65 | 0.90 | |
| 11,169.0 | 86.70 | 179.19 | 10,884.9 | -262.6 | 340.2 | 287.6 | 9.24 | 9.06 | 1.77 | |
| 11,201.0 | 86.39 | 178.29 | 10,886.9 | -294.6 | 340.9 | 319.5 | 2.97 | -0.97 | -2.81 | |
| 11,232.0 | 88.10 | 178.32 | 10,888.4 | -325.5 | 341.8 | 350.4 | 5.52 | 5.52 | 0.10 | |
| 11,263.0 | 90.53 | 179.68 | 10,888.7 | -356.5 | 342.3 | 381.3 | 8.98 | 7.84 | 4.39 | |
| 11,295.0 | 92.47 | 179.32 | 10,887.9 | -388.5 | 342.6 | 413.2 | 6.17 | 6.06 | -1.13 | |
| 11,326.0 | 88.77 | 177.08 | 10,887.6 | -419.5 | 343.6 | 444.2 | 13.95 | -11.94 | -7.23 | |
| 11,420.0 | 89.44 | 175.89 | 10,889.0 | -513.3 | 349.3 | 538.2 | 1.45 | 0.71 | -1.27 | |
| 11,514.0 | 90.09 | 175.27 | 10,889.4 | -607.0 | 356.6 | 632.2 | 0.96 | 0.69 | -0.66 | |
| 11,607.0 | 90.67 | 174.85 | 10,888.8 | -699.6 | 364.6 | 725.2 | 0.77 | 0.62 | -0.45 | |
| 11,702.0 | 88.63 | 175.53 | 10,889.4 | -794.3 | 372.6 | 820.2 | 2.26 | -2.15 | 0.72 | |
| 11,796.0 | 91.40 | 178.37 | 10,889.4 | -888.1 | 377.6 | 914.1 | 4.22 | 2.95 | 3.02 | |
| 11,890.0 | 92.16 | 178.54 | 10,886.4 | -982.1 | 380.1 | 1,008.0 | 0.83 | 0.81 | 0.18 | |
| 11,985.0 | 88.43 | 179.03 | 10,885.9 | -1,077.0 | 382.1 | 1,102.8 | 3.96 | -3.93 | 0.52 | |
| 12,079.0 | 88.57 | 179.30 | 10,888.4 | -1,171.0 | 383.5 | 1,196.6 | 0.32 | 0.15 | 0.29 | |
| 12,174.0 | 90.76 | 183.94 | 10,889.0 | -1,265.9 | 380.8 | 1,291.0 | 5.40 | 2.31 | 4.88 | |
| 12,269.0 | 89.72 | 180.45 | 10,888.6 | -1,360.8 | 377.1 | 1,385.4 | 3.83 | -1.09 | -3.67 | |
| 12,387.0 | 86.10 | 176.03 | 10,892.9 | -1,478.6 | 380.8 | 1,503.2 | 4.84 | -3.07 | -3.75 | |
| 12,480.0 | 91.79 | 179.32 | 10,894.6 | -1,571.5 | 384.5 | 1,596.0 | 7.07 | 6.12 | 3.54 | |
| 12,574.0 | 91.15 | 176.10 | 10,892.2 | -1,665.4 | 388.3 | 1,689.9 | 3.49 | -0.68 | -3.43 | |
| 12,668.0 | 89.11 | 176.54 | 10,892.0 | -1,759.2 | 394.3 | 1,783.9 | 2.22 | -2.17 | 0.47 | |
| 12,763.0 | 88.93 | 179.87 | 10,893.6 | -1,854.1 | 397.3 | 1,878.8 | 3.51 | -0.19 | 3.51 | |
| 12,856.0 | 88.85 | 177.60 | 10,895.4 | -1,947.1 | 399.3 | 1,971.7 | 2.44 | -0.09 | -2.44 | |
| 12,950.0 | 92.44 | 180.31 | 10,894.3 | -2,041.0 | 401.1 | 2,065.5 | 4.78 | 3.82 | 2.88 | |
| 13,044.0 | 91.18 | 182.00 | 10,891.4 | -2,134.9 | 399.2 | 2,159.0 | 2.24 | -1.34 | 1.80 | |
| 13,138.0 | 89.94 | 180.09 | 10,890.4 | -2,228.9 | 397.5 | 2,252.6 | 2.42 | -1.32 | -2.03 | |
| 13,232.0 | 91.01 | 180.44 | 10,889.7 | -2,322.9 | 397.0 | 2,346.3 | 1.20 | 1.14 | 0.37 | |
| 13,325.0 | 89.86 | 185.07 | 10,889.0 | -2,415.8 | 392.5 | 2,438.5 | 5.13 | -1.24 | 4.98 | |
| 13,420.0 | 90.53 | 186.19 | 10,888.6 | -2,510.3 | 383.2 | 2,532.1 | 1.37 | 0.71 | 1.18 | |
| 13,504.0 | 89.44 | 187.69 | 10,888.7 | -2,593.7 | 373.1 | 2,614.5 | 2.21 | -1.30 | 1.79 | |
| 13,607.0 | 90.39 | 187.76 | 10,888.8 | -2,695.8 | 359.2 | 2,715.2 | 0.92 | 0.92 | 0.07 | |
| 13,701.0 | 90.70 | 188.54 | 10,887.9 | -2,788.8 | 345.9 | 2,807.0 | 0.89 | 0.33 | 0.83 | |
| 13,796.0 | 88.77 | 185.76 | 10,888.4 | -2,883.1 | 334.1 | 2,900.0 | 3.56 | -2.03 | -2.93 | |
| 13,890.0 | 87.90 | 181.00 | 10,891.1 | -2,976.8 | 328.5 | 2,993.1 | 5.15 | -0.93 | -5.06 | |
| 13,984.0 | 90.84 | 179.24 | 10,892.1 | -3,070.8 | 328.4 | 3,086.8 | 3.65 | 3.13 | -1.87 | |
| 14,079.0 | 93.84 | 177.59 | 10,888.2 | -3,165.7 | 331.0 | 3,181.6 | 3.60 | 3.16 | -1.74 | |
| 14,173.0 | 90.09 | 176.39 | 10,885.0 | -3,259.5 | 335.9 | 3,275.5 | 4.19 | -3.99 | -1.28 | |
| 14,268.0 | 88.66 | 177.78 | 10,886.1 | -3,354.3 | 340.7 | 3,370.5 | 2.10 | -1.51 | 1.46 | |
| 14,361.0 | 92.69 | 181.17 | 10,885.0 | -3,447.3 | 341.6 | 3,463.2 | 5.66 | 4.33 | 3.65 | |
| 14,455.0 | 91.49 | 180.86 | 10,881.5 | -3,541.2 | 339.9 | 3,556.8 | 1.32 | -1.28 | -0.33 | |
| 14,549.0 | 89.89 | 178.73 | 10,880.4 | -3,635.2 | 340.3 | 3,650.5 | 2.83 | -1.70 | -2.27 | |
| 14,643.0 | 89.69 | 177.51 | 10,880.7 | -3,729.1 | 343.3 | 3,744.4 | 1.32 | -0.21 | -1.30 | |
| 14,738.0 | 89.72 | 177.86 | 10,881.2 | -3,824.1 | 347.2 | 3,839.4 | 0.37 | 0.03 | 0.37 | |



Survey Report



| | | | |
|------------------|---------------------------|-------------------------------------|------------------------------------|
| Company: | XTO ENERGY, INC. | Local Co-ordinate Reference: | Well Lone Watie 32 State #168H |
| Project: | Eddy County, NM | TVD Reference: | KB=23' @ 3003.0usft (Nabors M7507) |
| Site: | Sec 32, T25S, R29E | MD Reference: | KB=23' @ 3003.0usft (Nabors M7507) |
| Well: | Lone Watie 32 State #168H | North Reference: | Grid |
| Wellbore: | Wellbore #1 | Survey Calculation Method: | Minimum Curvature |
| Design: | Wellbore #1 | Database: | EDM 5000.1 Single User Db |

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|--|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 14,832.0 | 90.39 | 176.88 | 10,881.1 | -3,918.0 | 351.5 | 3,933.3 | 1.26 | 0.71 | -1.04 |
| 14,926.0 | 89.69 | 175.40 | 10,881.1 | -4,011.7 | 357.8 | 4,027.3 | 1.74 | -0.74 | -1.57 |
| 15,020.0 | 89.78 | 173.81 | 10,881.5 | -4,105.3 | 366.7 | 4,121.3 | 1.69 | 0.10 | -1.69 |
| 15,113.0 | 87.76 | 172.00 | 10,883.5 | -4,197.6 | 378.1 | 4,214.2 | 2.92 | -2.17 | -1.95 |
| 15,229.0 | 91.99 | 173.30 | 10,883.8 | -4,312.6 | 393.0 | 4,330.0 | 3.81 | 3.65 | 1.12 |
| 15,323.0 | 90.73 | 179.11 | 10,881.5 | -4,406.3 | 399.2 | 4,423.9 | 6.32 | -1.34 | 6.18 |
| 15,418.0 | 91.96 | 183.07 | 10,879.3 | -4,501.3 | 397.4 | 4,518.4 | 4.36 | 1.29 | 4.17 |
| 15,511.0 | 91.49 | 182.56 | 10,876.5 | -4,594.1 | 392.8 | 4,610.7 | 0.75 | -0.51 | -0.55 |
| 330' HL Crossed @ 15561.1'MD / 10875.3' TVD | | | | | | | | | |
| 15,561.1 | 91.17 | 182.23 | 10,875.3 | -4,644.2 | 390.7 | 4,660.4 | 0.91 | -0.64 | -0.65 |
| 15,605.0 | 90.89 | 181.95 | 10,874.5 | -4,688.0 | 389.1 | 4,704.0 | 0.91 | -0.64 | -0.65 |
| 15,641.0 | 91.12 | 181.83 | 10,873.9 | -4,724.0 | 387.9 | 4,739.8 | 0.72 | 0.64 | -0.33 |
| TD @ 15689.0' MD / 10873.0' TVD | | | | | | | | | |
| 15,689.0 | 91.12 | 181.83 | 10,873.0 | -4,772.0 | 386.4 | 4,787.5 | 0.00 | 0.00 | 0.00 |

| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates | | Comment |
|-----------------------|-----------------------|-------------------|--------------|---|
| | | +N/-S (usft) | +E/-W (usft) | |
| 2,137.3 | 2,134.9 | 6.0 | 4.8 | 330' HL Crossed @ 2137.3'MD / 2134.9' TVD |
| 10,155.0 | 10,141.9 | 228.5 | 320.2 | MWD Tie-in @ 10155.0' MD / 10141.9' TVD |
| 10,884.1 | 10,795.9 | 4.4 | 341.0 | 330' HL Crossed @ 10884.1'MD / 10795.9' TVD |
| 15,561.1 | 10,875.3 | -4,644.2 | 390.7 | 330' HL Crossed @ 15561.1'MD / 10875.3' TVD |
| 15,689.0 | 10,873.0 | -4,772.0 | 386.4 | TD @ 15689.0' MD / 10873.0' TVD |

Checked By: _____ Approved By: _____ Date: _____