

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 PLAT

|                                         |                                                          |                                 |                                                          |
|-----------------------------------------|----------------------------------------------------------|---------------------------------|----------------------------------------------------------|
| <sup>1</sup> API Number<br>30-015-45984 |                                                          | <sup>2</sup> Pool Code<br>73480 | <sup>3</sup> Pool Name<br>BURTON FLAT; BONE SPRING, EAST |
| <sup>4</sup> Property Code<br>326053    | <sup>5</sup> Property Name<br>LEATHERNECK 3029 FED COM   |                                 | <sup>6</sup> Well Number<br>206H                         |
| <sup>7</sup> OGRID No.<br>228937        | <sup>8</sup> Operator Name<br>MATADOR PRODUCTION COMPANY |                                 | <sup>9</sup> Elevation<br>3241'                          |

<sup>10</sup>Surface Location

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| 2             | 30      | 20-S     | 29-E  | -       | 1540'         | NORTH            | 206'          | WEST           | EDDY   |

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

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| H             | 29      | 20-S     | 29-E  | -       | 2261'         | NORTH            | 47'           | EAST           | EDDY   |

|                                         |                               |                                  |                         |
|-----------------------------------------|-------------------------------|----------------------------------|-------------------------|
| <sup>12</sup> Dedicated Acres<br>316.84 | <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.

|                                                                                                                                                                                                                                                      |  |                                                                                                                                                                                                                                     |  |                                                                                                                                                                                                                                     |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <sup>16</sup><br><b>SURFACE LOCATION</b><br>NEW MEXICO EAST<br>NAD 1927<br>X=565312<br>Y=562917<br>LAT.: N 32.5473884<br>LONG.: W 104.1213788<br>NAD 1983<br>X=606492<br>Y=562978<br>LAT.: N 32.5475067<br>LONG.: W 104.1218834<br>ELEVATION = 3241' |  | <b>KICK OFF POINT</b><br>NEW MEXICO EAST<br>NAD 1927<br>X=565144<br>Y=562318<br>LAT.: N 32.5457428<br>LONG.: W 104.1219266<br>NAD 1983<br>X=606324<br>Y=562379<br>LAT.: N 32.5458612<br>LONG.: W 104.1224312<br>MD = 8743'          |  | <b>LAST PERFORATION POINT</b><br>NEW MEXICO EAST<br>NAD 1927<br>X=575389<br>Y=562199<br>LAT.: N 32.5453558<br>LONG.: W 104.0886787<br>NAD 1983<br>X=616570<br>Y=562261<br>LAT.: N 32.5454746<br>LONG.: W 104.0891824<br>MD = 19288' |  | <sup>17</sup> OPERATOR CERTIFICATION<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<br>Date 8/29/20<br>Printed Name<br>Cassie Hahn<br>E-mail Address<br>chahn@matadorresources.com |
| <b>PENETRATION POINT</b><br>NEW MEXICO EAST<br>NAD 1927<br>X=565362<br>Y=562302<br>LAT.: N 32.5456962<br>LONG.: W 104.1212197<br>NAD 1983<br>X=606542<br>Y=562363<br>LAT.: N 32.5458145<br>LONG.: W 104.1217243<br>MD = 9206'                        |  | <b>FIRST PERFORATION POINT</b><br>NEW MEXICO EAST<br>MD = 9435'<br>NAD 1927<br>X=565546<br>Y=562255<br>LAT.: N 32.5455670<br>LONG.: W 104.1206232<br>NAD 1983<br>X=606726<br>Y=562316<br>LAT.: N 32.5456854<br>LONG.: W 104.1211278 |  | <b>BOTTOM HOLE LOCATION</b><br>NEW MEXICO EAST<br>NAD 1927<br>X=575519<br>Y=562194<br>LAT.: N 32.5453413<br>LONG.: W 104.0882573<br>NAD 1983<br>X=616700<br>Y=562256<br>LAT.: N 32.5454600<br>LONG.: W 104.0887610<br>MD = 19420'   |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

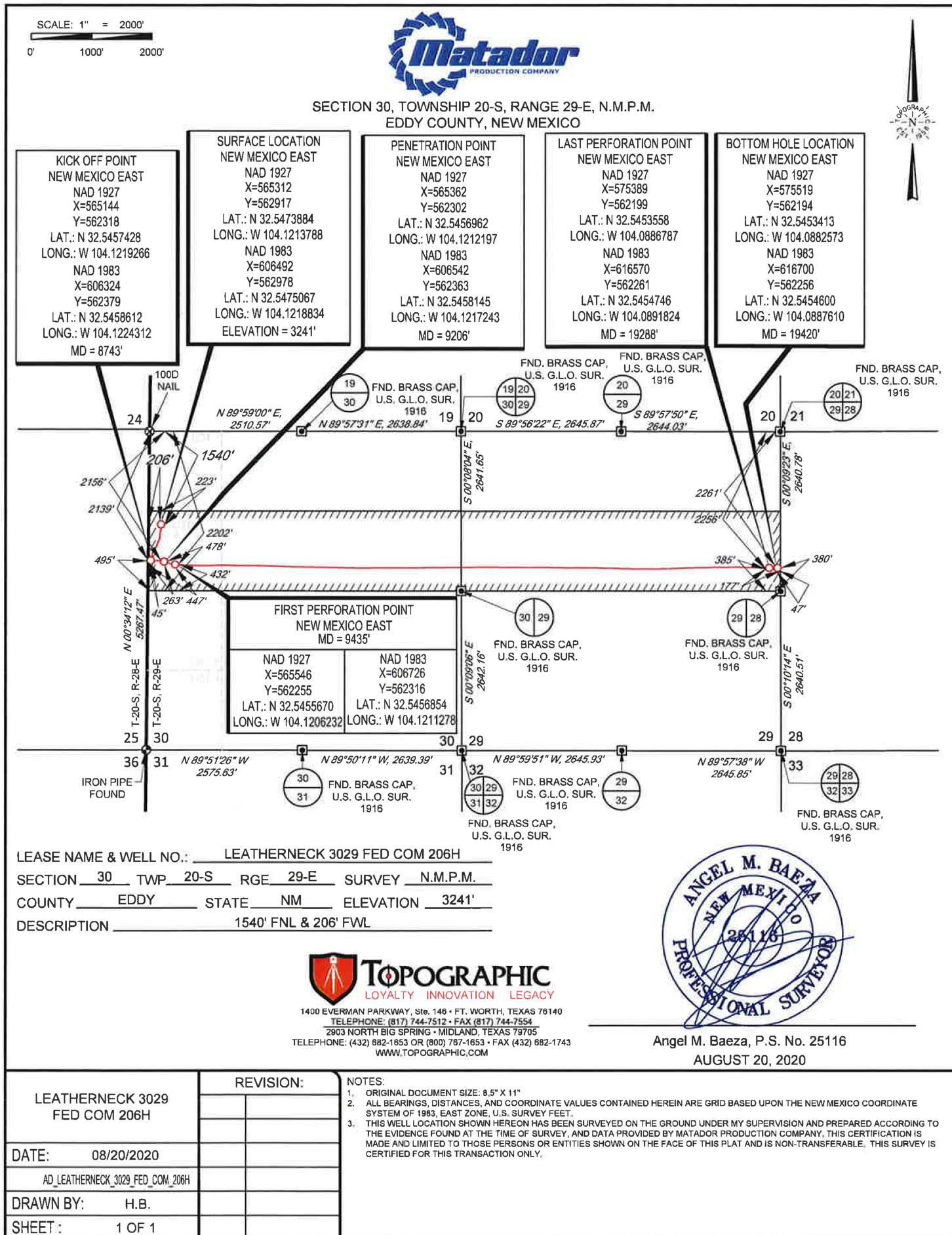
<sup>18</sup>SURVEYOR CERTIFICATION  
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true to the best of my belief.

04/30/2019

Date of Survey  
Signature and Seal of Professional Surveyor



Certificate Number







I Andrew Meadville certify that I am employed by VES Survey International. That I did on the day(s) of 11/28/19 through 11/28/19 conduct or supervise the taking of a Rate Gyro survey from a depth of 0.00 feet to a depth of 377.00 feet; that the data is true, correct, complete and within the limitations of the tool as set forth by Vaughn Energy Services, that I am authorized and qualified to make this report; that this survey was conducted at the request of Matador Production for the Leatherneck 3029 Fed Com Well # 206H API # 30-015-45984 in Eddy County / Parish New Mexico; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by VES Survey International.

A handwritten signature in black ink, appearing to read "A K M", is written over a horizontal line.

Andrew Meadville  
Service Technician  
VES Survey International



Company: MATADOR PRODUCTION  
Lease/Well: LEATHERNECK 3029 FEDERAL COM/206H  
API: 30-015-45984  
Rig Name: PATTERSON 809  
State/County: NEW MEXICO/EDDY  
Latitude: 32.55, Longitude: -104.12  
GRID North is 0.11 Degrees East of True North  
VS-Azi: 0.00 Degrees



Depth Reference : RKB 28 FEET

DRILLOG MS GYRO SURVEY CALCULATIONS

Filename: msgyro\_run01-01-de\_01.ut  
Minimum Curvature Method  
Report Date/Time: 12/2/2019 / 16:15

VES Survey International  
Midland, TX  
432-563-5444

Surveyor: Andrew Meadville  
Leatherneck 3029 Federal Com 206H / API: 30-015-45984

| Measured<br>Depth<br>FT | Incl<br>Angle<br>Deg | Drift<br>Direction<br>Deg | TVD<br>FT | +N/-S<br>FT | +E/-W<br>FT | Vertical<br>Section<br>FT | Closure<br>Distance<br>FT | Closure<br>Direction<br>Deg | Dogleg<br>Severity<br>Deg/100 |
|-------------------------|----------------------|---------------------------|-----------|-------------|-------------|---------------------------|---------------------------|-----------------------------|-------------------------------|
| 0.00                    | 0.00                 | 0.00                      | 0.00      | 0.00        | 0.00        | 0.00                      | 0.00                      | 0.00                        | ****                          |
| 64.00                   | 0.32                 | 3.12                      | 64.00     | 0.18        | 0.01        | 0.18                      | 0.18                      | 3.12                        | 0.50                          |
| 158.00                  | 0.94                 | 12.54                     | 157.99    | 1.19        | 0.19        | 1.19                      | 1.21                      | 9.12                        | 0.67                          |
| 252.00                  | 1.05                 | 17.57                     | 251.98    | 2.76        | 0.62        | 2.76                      | 2.83                      | 12.61                       | 0.15                          |
| 346.00                  | 1.58                 | 23.56                     | 345.95    | 4.77        | 1.40        | 4.77                      | 4.97                      | 16.31                       | 0.58                          |
| 377.00                  | 1.76                 | 29.32                     | 376.94    | 5.58        | 1.80        | 5.58                      | 5.86                      | 17.88                       | 0.79                          |

HORIZONTAL DISPLACEMENT IS  
5.86 FEET AT 17.88 DEGREES





## Leatherneck 3029 Fed Com No. 206H

Eddy County, NM

30-015-45984

January 21, 2020

Job No. LNM5551219

ORIGINAL

# Certified Report



**PRO**DIRECTIONAL

## Survey Certification Letter

January 21, 2020



Operator Name: Matador Resources  
Well Name: Leatherneck 3029 Fed Com No. 206H  
County/Parish: Eddy County,  
State: NM  
Rig Name: Patterson 809  
Job Number: LNM5551219

This is to certify the surveys performed on the referenced well by Professional Directional Ent., Inc. are true and correct MWD Surveys, data provided as follows:

| <u>Surveyor</u> | <u>Surveyed Depths</u> | <u>Projection to Bit</u> | <u>Dates Performed</u> | <u>Type of Survey</u> |
|-----------------|------------------------|--------------------------|------------------------|-----------------------|
| ProDirectional  | 408' MD – 19,340' MD   | 19,420' MD               | 11/29/19 – 12/30/19    | MWD                   |

Sincerely,

Mike Coats  
Regulatory Specialist  
Professional Directional

850 Conroe Park West Drive | Conroe, TX 77303 | Phone: 936.441.7266

[prodirectional.com](http://prodirectional.com)



## **Matador Resources**

**Eddy County, NM  
Leatherneck 3029 Fed Com  
No. 206H  
OH**

**Survey: ProDirectional**

## **Survey Report**

**21 January, 2020**





# ProDirectional Survey Report



|                                                                                                                                                                                             |                                                                                                                                                                                                                                                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Company:</b> Matador Resources<br><b>Project:</b> Eddy County, NM (NAD83)<br><b>Site:</b> Leatherneck 3029 Fed Com<br><b>Well:</b> No. 206H<br><b>Wellbore:</b> OH<br><b>Design:</b> MWD | <b>Local Co-ordinate Reference:</b><br><b>TVD Reference:</b> Well @ 3269.50usft<br><b>MD Reference:</b> Well @ 3269.50usft<br><b>North Reference:</b> Grid<br><b>Survey Calculation Method:</b> Minimum Curvature<br><b>Database:</b> WellPlanner1 |
| <b>Project</b> Eddy County, NM (NAD83)<br><b>Map System:</b> US State Plane 1983<br><b>Geo Datum:</b> North American Datum 1983<br><b>Map Zone:</b> New Mexico Eastern Zone                 | <b>System Datum:</b> Mean Sea Level                                                                                                                                                                                                                |
| <b>Site</b> Leatherneck 3029 Fed Com                                                                                                                                                        |                                                                                                                                                                                                                                                    |
| <b>Site Position:</b><br><b>From:</b> Map<br><b>Position Uncertainty:</b> 0.00 usft                                                                                                         | <b>Northing:</b> 562,948.00 usft<br><b>Easting:</b> 606,522.00 usft<br><b>Slot Radius:</b> 13-3/16 "<br><b>Latitude:</b> 32.5474233<br><b>Longitude:</b> -104.1217863<br><b>Grid Convergence:</b> 0.11 °                                           |
| <b>Well</b> No. 206H, LNM551219                                                                                                                                                             |                                                                                                                                                                                                                                                    |
| <b>Well Position</b> +N/-S 0.00 usft<br>+E/-W 0.00 usft<br><b>Position Uncertainty</b> 0.00 usft                                                                                            | <b>Latitude:</b> 32.5475059<br><b>Longitude:</b> -104.1218835<br><b>Ground Level:</b> 3,241.00 usft                                                                                                                                                |
| <b>Wellbore</b> OH                                                                                                                                                                          |                                                                                                                                                                                                                                                    |
| <b>Magnetics</b> Model Name Sample Date Declination (°) Dip Angle (°) Field Strength (nT)<br>HDGM 12/1/2019 7.13 60.28 47,923.40                                                            |                                                                                                                                                                                                                                                    |
| <b>Design</b> MWD                                                                                                                                                                           |                                                                                                                                                                                                                                                    |
| <b>Audit Notes:</b> 1.0<br><b>Version:</b> 1.0<br><b>Phase:</b> ACTUAL<br><b>Tie On Depth:</b> 0.00                                                                                         |                                                                                                                                                                                                                                                    |
| <b>Vertical Section:</b> Depth From (TVD) (usft) +N/-S (usft) +E/-W (usft) Direction (°)<br>0.00 0.00 0.00 90.05                                                                            |                                                                                                                                                                                                                                                    |





## ProDirectional Survey Report

**Company:**

Matador Resources

**Project:**

Eddy County, NM (NAD83)

**Site:**

Leatherneck 3029 Fed Corn

**Well:**

No. 206H

**Wellbore:**

OH

**Design:**

MWD

**Local Co-ordinate Reference:**

Well No. 206H

TVD Reference:

Well @ 3269.50usft

MD Reference:

Well @ 3269.50usft

North Reference:

Grid

Survey Calculation Method:

Minimum Curvature

Database:

WellPlanner1

**Survey Program**

Date 1/21/2020

| From (usft) | To (usft) | Survey (Wellbore) |
|-------------|-----------|-------------------|
|-------------|-----------|-------------------|

|        |           |                |
|--------|-----------|----------------|
| 64.00  | 377.00    | Survey #1 (OH) |
| 408.00 | 19,420.00 | Survey #2 (OH) |

**Survey**

| MD (usft)                     | Inc (") | Azi (azimuth) (") | TVD (usft) | V. Sec (usft) | N/S (usft) | E/W (usft) | Closure Distance (usft) | Closure Azimuth (") | Northing (usft) | Easting (usft) |
|-------------------------------|---------|-------------------|------------|---------------|------------|------------|-------------------------|---------------------|-----------------|----------------|
| 0.00                          | 0.00    | 0.00              | 0.00       | 0.00          | 0.00       | 0.00       | 0.00                    | 0.00                | 562,978.00      | 606,492.00     |
| 64.00                         | 0.32    | 3.12              | 64.00      | 0.01          | 0.18       | 0.01       | 0.18                    | 3.12                | 562,978.18      | 606,492.01     |
| 158.00                        | 0.94    | 12.54             | 157.99     | 0.19          | 1.19       | 0.19       | 1.21                    | 9.11                | 562,979.19      | 606,492.19     |
| 252.00                        | 1.05    | 17.57             | 251.98     | 0.62          | 2.77       | 0.62       | 2.84                    | 12.61               | 562,980.77      | 606,492.62     |
| 346.00                        | 1.58    | 23.56             | 345.95     | 1.39          | 4.78       | 1.40       | 4.98                    | 16.30               | 562,982.78      | 606,493.40     |
| 377.00                        | 1.76    | 29.32             | 376.94     | 1.80          | 5.58       | 1.80       | 5.87                    | 17.88               | 562,983.58      | 606,493.80     |
| 408.00                        | 2.20    | 30.50             | 407.92     | 2.33          | 6.51       | 2.34       | 6.92                    | 19.74               | 562,984.51      | 606,494.34     |
| Pro MWD First Survey: 408' MD |         |                   |            |               |            |            |                         |                     |                 |                |
| 501.00                        | 1.40    | 38.60             | 500.88     | 3.94          | 8.94       | 3.95       | 9.77                    | 23.85               | 562,986.94      | 606,495.95     |
| 593.00                        | 0.20    | 297.50            | 592.87     | 4.50          | 9.89       | 4.51       | 10.87                   | 24.51               | 562,987.89      | 606,496.51     |
| 686.00                        | 0.80    | 218.40            | 685.86     | 3.95          | 9.46       | 3.96       | 10.25                   | 22.74               | 562,987.46      | 606,495.96     |
| 779.00                        | 1.80    | 174.10            | 778.84     | 3.70          | 7.49       | 3.71       | 8.36                    | 26.33               | 562,985.49      | 606,495.71     |
| 874.00                        | 2.60    | 146.60            | 873.77     | 5.04          | 4.21       | 5.05       | 6.57                    | 50.17               | 562,982.21      | 606,497.05     |
| 970.00                        | 4.20    | 120.60            | 969.61     | 9.27          | 0.60       | 9.27       | 9.29                    | 86.28               | 562,978.60      | 606,501.27     |
| 1,066.00                      | 4.50    | 135.90            | 1,065.33   | 14.92         | -3.89      | 14.92      | 15.42                   | 104.62              | 562,974.11      | 606,506.92     |
| 1,117.00                      | 4.40    | 158.30            | 1,116.18   | 17.04         | -7.15      | 17.04      | 18.47                   | 112.76              | 562,970.85      | 606,509.04     |
| 1,251.00                      | 5.80    | 194.60            | 1,249.68   | 17.25         | -18.48     | 17.23      | 25.26                   | 137.00              | 562,959.52      | 606,509.23     |
| 1,347.00                      | 7.50    | 193.20            | 1,345.03   | 14.60         | -29.27     | 14.58      | 32.70                   | 153.53              | 562,948.73      | 606,506.58     |
| 1,442.00                      | 6.90    | 196.10            | 1,439.28   | 11.61         | -40.79     | 11.58      | 42.40                   | 164.15              | 562,937.21      | 606,503.58     |
| 1,538.00                      | 6.70    | 198.60            | 1,534.61   | 8.24          | -51.64     | 8.19       | 52.29                   | 170.98              | 562,926.36      | 606,500.19     |
| 1,633.00                      | 6.90    | 194.00            | 1,628.94   | 5.10          | -62.43     | 5.04       | 62.63                   | 175.38              | 562,915.57      | 606,497.04     |



## ProDirectional Survey Report

**Company:**

Matador Resources

Eddy County, NM (NAD83)

Site: Leatheneck 3029 Fed Com

Well: No. 206H

Wellbore: OH

Design: MWD

**Local Co-ordinate Reference:**

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Database:

Well No. 206H

Well @ 3269.50usft

Well @ 3269.50usft

Grid

Minimum Curvature

WellPlanner1

**Survey**

| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | V. Sec<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | Closure Distance<br>(usft) | Closure Azimuth<br>(°) | Northing<br>(usft) | Easting<br>(usft) |
|--------------|------------|----------------------|---------------|------------------|---------------|---------------|----------------------------|------------------------|--------------------|-------------------|
| 1,729.00     | 7.50       | 195.30               | 1,724.18      | 2.06             | -74.07        | 2.00          | 74.09                      | 178.46                 | 562,903.93         | 606,494.00        |
| 1,824.00     | 8.30       | 191.70               | 1,818.28      | -0.95            | -86.76        | -1.03         | 86.77                      | 180.68                 | 562,891.24         | 606,490.97        |
| 1,920.00     | 6.60       | 192.90               | 1,913.47      | -3.58            | -98.93        | -3.67         | 98.99                      | 182.12                 | 562,879.07         | 606,488.33        |
| 2,015.00     | 6.60       | 191.20               | 2,007.84      | -5.85            | -109.60       | -5.95         | 109.76                     | 183.11                 | 562,868.40         | 606,486.05        |
| 2,111.00     | 6.80       | 191.50               | 2,103.18      | -8.05            | -120.58       | -8.15         | 120.86                     | 183.87                 | 562,857.42         | 606,483.85        |
| 2,206.00     | 8.00       | 191.40               | 2,197.39      | -10.46           | -132.58       | -10.58        | 133.00                     | 184.56                 | 562,845.42         | 606,481.42        |
| 2,302.00     | 7.70       | 188.20               | 2,292.49      | -12.69           | -145.49       | -12.82        | 146.05                     | 185.03                 | 562,832.51         | 606,479.18        |
| 2,397.00     | 8.00       | 189.80               | 2,386.60      | -14.71           | -158.30       | -14.85        | 159.00                     | 185.36                 | 562,819.70         | 606,477.15        |
| 2,493.00     | 7.60       | 183.10               | 2,481.71      | -16.18           | -171.23       | -16.33        | 172.00                     | 185.45                 | 562,806.77         | 606,475.67        |
| 2,588.00     | 6.50       | 179.10               | 2,575.99      | -16.43           | -182.88       | -16.59        | 183.63                     | 185.18                 | 562,795.12         | 606,475.41        |
| 2,684.00     | 7.80       | 173.90               | 2,671.25      | -15.64           | -194.79       | -15.81        | 195.43                     | 184.64                 | 562,783.21         | 606,476.19        |
| 2,779.00     | 7.00       | 180.40               | 2,765.46      | -14.98           | -206.99       | -15.16        | 207.54                     | 184.19                 | 562,771.01         | 606,476.84        |
| 2,875.00     | 7.90       | 188.60               | 2,860.65      | -16.00           | -219.36       | -16.19        | 219.96                     | 184.22                 | 562,758.64         | 606,475.81        |
| 2,971.00     | 8.00       | 197.50               | 2,955.73      | -18.98           | -232.26       | -19.19        | 233.05                     | 184.72                 | 562,745.74         | 606,472.81        |
| 3,042.00     | 8.00       | 207.00               | 3,026.04      | -22.70           | -241.37       | -22.91        | 242.45                     | 185.42                 | 562,736.63         | 606,469.09        |
| 3,160.00     | 9.50       | 205.90               | 3,142.66      | -30.67           | -257.45       | -30.90        | 259.29                     | 186.84                 | 562,720.55         | 606,461.10        |
| 3,256.00     | 7.90       | 203.60               | 3,237.56      | -36.76           | -270.62       | -37.00        | 273.14                     | 187.79                 | 562,707.38         | 606,455.00        |
| 3,352.00     | 7.60       | 202.50               | 3,332.68      | -41.82           | -282.53       | -42.07        | 285.65                     | 188.47                 | 562,695.47         | 606,449.93        |
| 3,447.00     | 6.70       | 200.30               | 3,426.94      | -46.14           | -293.53       | -46.40        | 297.18                     | 188.98                 | 562,684.47         | 606,445.60        |
| 3,543.00     | 6.20       | 203.50               | 3,522.33      | -50.14           | -303.54       | -50.41        | 307.70                     | 189.43                 | 562,674.46         | 606,441.59        |
| 3,639.00     | 5.80       | 200.00               | 3,617.81      | -53.86           | -312.85       | -54.13        | 317.50                     | 189.82                 | 562,665.15         | 606,437.87        |
| 3,734.00     | 5.40       | 199.20               | 3,712.35      | -56.96           | -321.58       | -57.24        | 326.64                     | 190.09                 | 562,656.42         | 606,434.76        |
| 3,829.00     | 5.20       | 200.30               | 3,806.95      | -59.92           | -329.84       | -60.21        | 335.29                     | 190.34                 | 562,648.16         | 606,431.79        |
| 3,925.00     | 4.70       | 198.60               | 3,902.59      | -62.68           | -337.65       | -62.97        | 343.47                     | 190.56                 | 562,640.35         | 606,429.03        |
| 4,020.00     | 4.80       | 199.60               | 3,997.26      | -65.25           | -345.08       | -65.55        | 351.25                     | 190.75                 | 562,632.92         | 606,426.45        |
| 4,116.00     | 4.60       | 203.10               | 4,092.94      | -68.10           | -352.41       | -68.40        | 358.99                     | 190.98                 | 562,625.59         | 606,423.60        |
| 4,212.00     | 4.60       | 205.00               | 4,188.63      | -71.23           | -359.44       | -71.54        | 366.49                     | 191.26                 | 562,618.56         | 606,420.46        |



## ProDirectional Survey Report

**Company:**

Matador Resources

Eddy County, NM (NAD83)

Site: Leatherneck 3029 Fed Com

Well: No. 206H

Wellbore: OH

Design: MWD

**Local Co-ordinate Reference:**

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Database:

Well No. 206H

Well @ 3269.50usft

Well @ 3269.50usft

Grid

Minimum Curvature

WellPlanner1

**Survey**

| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | V. Sec<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | Closure Distance<br>(usft) | Closure Azimuth<br>(°) | Northing<br>(usft) | Easting<br>(usft) |
|--------------|------------|----------------------|---------------|------------------|---------------|---------------|----------------------------|------------------------|--------------------|-------------------|
| 4,307.00     | 4.60       | 206.30               | 4,283.33      | -74.52           | -366.31       | -74.84        | 373.87                     | 191.55                 | 562,611.69         | 606,417.16        |
| 4,403.00     | 4.60       | 207.50               | 4,379.02      | -78.00           | -373.17       | -78.32        | 381.30                     | 191.85                 | 562,604.83         | 606,413.68        |
| 4,499.00     | 4.30       | 211.10               | 4,474.73      | -81.63           | -379.67       | -81.96        | 388.41                     | 192.18                 | 562,598.33         | 606,410.04        |
| 4,594.00     | 4.30       | 212.90               | 4,569.46      | -85.40           | -385.71       | -85.73        | 395.12                     | 192.53                 | 562,592.29         | 606,406.27        |
| 4,690.00     | 4.30       | 214.80               | 4,665.19      | -89.40           | -391.68       | -89.74        | 401.83                     | 192.90                 | 562,586.32         | 606,402.26        |
| 4,786.00     | 4.00       | 216.80               | 4,760.94      | -93.45           | -397.32       | -93.80        | 408.24                     | 193.28                 | 562,580.68         | 606,398.20        |
| 4,881.00     | 4.10       | 217.70               | 4,855.70      | -97.51           | -402.66       | -97.86        | 414.38                     | 193.66                 | 562,575.34         | 606,394.14        |
| 4,977.00     | 5.50       | 210.40               | 4,951.36      | -101.93          | -409.34       | -102.29       | 421.93                     | 194.03                 | 562,568.66         | 606,389.71        |
| 5,072.00     | 5.80       | 210.50               | 5,045.90      | -106.67          | -417.41       | -107.03       | 430.91                     | 194.38                 | 562,560.59         | 606,384.97        |
| 5,168.00     | 5.60       | 211.30               | 5,141.43      | -111.55          | -425.59       | -111.93       | 440.06                     | 194.73                 | 562,552.41         | 606,380.07        |
| 5,264.00     | 5.10       | 214.20               | 5,237.01      | -116.38          | -433.12       | -116.76       | 448.58                     | 195.09                 | 562,544.88         | 606,375.24        |
| 5,359.00     | 5.00       | 216.40               | 5,331.64      | -121.20          | -439.95       | -121.59       | 456.44                     | 195.45                 | 562,538.05         | 606,370.41        |
| 5,455.00     | 4.10       | 215.50               | 5,427.33      | -125.67          | -446.11       | -126.06       | 463.58                     | 195.78                 | 562,531.89         | 606,365.94        |
| 5,550.00     | 4.90       | 199.70               | 5,522.04      | -129.01          | -452.69       | -129.40       | 470.82                     | 195.95                 | 562,525.31         | 606,362.60        |
| 5,646.00     | 5.10       | 195.10               | 5,617.68      | -131.49          | -460.67       | -131.90       | 479.18                     | 195.98                 | 562,517.33         | 606,360.10        |
| 5,741.00     | 4.30       | 195.60               | 5,712.36      | -133.55          | -468.18       | -133.95       | 486.96                     | 195.97                 | 562,509.82         | 606,358.05        |
| 5,837.00     | 3.50       | 198.30               | 5,808.14      | -135.43          | -474.43       | -135.84       | 493.49                     | 195.98                 | 562,503.57         | 606,356.16        |
| 5,932.00     | 5.10       | 190.30               | 5,902.87      | -137.09          | -481.34       | -137.51       | 500.59                     | 195.94                 | 562,496.66         | 606,354.49        |
| 6,028.00     | 5.00       | 188.30               | 5,998.49      | -138.45          | -489.67       | -138.88       | 508.99                     | 195.83                 | 562,488.33         | 606,353.12        |
| 6,123.00     | 4.20       | 192.50               | 6,093.19      | -139.79          | -497.17       | -140.23       | 516.56                     | 195.75                 | 562,480.83         | 606,351.77        |
| 6,218.00     | 4.00       | 199.80               | 6,187.95      | -141.66          | -503.68       | -142.10       | 523.34                     | 195.76                 | 562,474.32         | 606,349.90        |
| 6,314.00     | 5.50       | 194.00               | 6,283.61      | -143.90          | -511.29       | -144.35       | 531.28                     | 195.77                 | 562,466.71         | 606,347.65        |
| 6,410.00     | 5.40       | 192.80               | 6,379.18      | -146.01          | -520.16       | -146.46       | 540.39                     | 195.73                 | 562,457.84         | 606,345.54        |
| 6,505.00     | 4.90       | 192.90               | 6,473.80      | -147.90          | -528.48       | -148.36       | 548.91                     | 195.68                 | 562,449.52         | 606,343.64        |
| 6,601.00     | 4.50       | 195.30               | 6,569.47      | -149.80          | -536.11       | -150.27       | 556.77                     | 195.66                 | 562,441.89         | 606,341.73        |
| 6,697.00     | 4.60       | 199.70               | 6,665.17      | -152.08          | -543.36       | -152.56       | 564.37                     | 195.68                 | 562,434.64         | 606,339.44        |
| 6,792.00     | 4.40       | 203.50               | 6,759.88      | -154.82          | -550.29       | -155.30       | 571.78                     | 195.76                 | 562,427.71         | 606,336.70        |





## ProDirectional Survey Report

**Company:**

Matador Resources

Eddy County, NM (NAD83)

Site: Leatheneck 3029 Fed Com

Well: No. 206H

Wellbore: OH

Design: MWD

**Local Co-ordinate Reference:**

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Database:

Well No. 206H

Well @ 3269.50usft

Well @ 3269.50usft

Grid

Minimum Curvature

WellPlanner1

**Survey**

| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | V. Sec<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | Closure Distance<br>(usft) | Closure Azimuth<br>(°) | Northing<br>(usft) | Easting<br>(usft) |
|--------------|------------|----------------------|---------------|------------------|---------------|---------------|----------------------------|------------------------|--------------------|-------------------|
| 6,888.00     | 4.10       | 203.90               | 6,855.61      | -157.67          | -556.81       | -158.15       | 578.83                     | 195.86                 | 562,421.19         | 606,333.85        |
| 6,984.00     | 3.60       | 207.80               | 6,951.40      | -160.46          | -562.61       | -160.95       | 585.18                     | 195.96                 | 562,415.39         | 606,331.05        |
| 7,079.00     | 3.30       | 213.70               | 7,046.23      | -163.36          | -567.52       | -163.86       | 590.71                     | 196.10                 | 562,410.48         | 606,328.14        |
| 7,174.00     | 2.60       | 190.60               | 7,141.10      | -165.27          | -571.92       | -165.77       | 595.46                     | 196.16                 | 562,406.08         | 606,326.23        |
| 7,270.00     | 1.90       | 176.60               | 7,237.03      | -165.58          | -575.65       | -166.08       | 599.12                     | 196.09                 | 562,402.35         | 606,325.92        |
| 7,366.00     | 1.50       | 144.40               | 7,332.99      | -164.75          | -578.26       | -165.25       | 601.41                     | 195.95                 | 562,399.74         | 606,326.75        |
| 7,461.00     | 1.10       | 123.10               | 7,427.96      | -163.26          | -579.76       | -163.77       | 602.45                     | 195.77                 | 562,398.24         | 606,328.23        |
| 7,557.00     | 0.90       | 131.90               | 7,523.95      | -161.93          | -580.77       | -162.43       | 603.06                     | 195.63                 | 562,397.23         | 606,329.57        |
| 7,653.00     | 1.10       | 145.20               | 7,619.93      | -160.84          | -582.03       | -161.35       | 603.98                     | 195.49                 | 562,395.97         | 606,330.65        |
| 7,748.00     | 1.20       | 123.50               | 7,714.92      | -159.49          | -583.33       | -160.00       | 604.87                     | 195.34                 | 562,394.67         | 606,332.00        |
| 7,844.00     | 1.40       | 117.40               | 7,810.89      | -157.61          | -584.42       | -158.12       | 605.44                     | 195.14                 | 562,393.58         | 606,333.88        |
| 7,939.00     | 0.60       | 113.80               | 7,905.88      | -156.12          | -585.16       | -156.63       | 605.76                     | 194.99                 | 562,392.84         | 606,335.37        |
| 8,034.00     | 0.50       | 159.40               | 8,000.87      | -155.52          | -585.75       | -156.03       | 606.17                     | 194.92                 | 562,392.25         | 606,335.97        |
| 8,129.00     | 1.30       | 206.70               | 8,095.86      | -155.86          | -587.10       | -156.37       | 607.57                     | 194.91                 | 562,390.90         | 606,335.63        |
| 8,225.00     | 4.80       | 251.40               | 8,191.72      | -160.15          | -589.35       | -160.67       | 610.86                     | 195.25                 | 562,388.65         | 606,331.33        |
| 8,320.00     | 2.40       | 219.60               | 8,286.53      | -165.18          | -592.15       | -165.70       | 614.90                     | 195.63                 | 562,385.85         | 606,326.30        |
| 8,416.00     | 1.80       | 189.30               | 8,382.47      | -166.71          | -595.19       | -167.23       | 618.24                     | 195.69                 | 562,382.81         | 606,324.77        |
| 8,511.00     | 1.10       | 190.40               | 8,477.44      | -167.11          | -597.56       | -167.63       | 620.63                     | 195.67                 | 562,380.44         | 606,324.37        |
| 8,607.00     | 0.50       | 233.80               | 8,573.43      | -167.61          | -598.71       | -168.14       | 621.88                     | 195.69                 | 562,379.29         | 606,323.86        |
| 8,680.00     | 0.50       | 261.30               | 8,646.43      | -168.19          | -598.95       | -168.71       | 622.26                     | 195.73                 | 562,379.05         | 606,323.29        |
| 8,761.00     | 2.50       | 89.80                | 8,727.41      | -166.77          | -599.00       | -167.29       | 621.92                     | 195.60                 | 562,379.00         | 606,324.71        |
| 8,857.00     | 20.10      | 90.40                | 8,821.18      | -148.03          | -599.11       | -148.55       | 617.25                     | 193.93                 | 562,378.89         | 606,343.45        |
| 8,952.00     | 33.50      | 87.70                | 8,905.78      | -105.32          | -598.16       | -105.84       | 607.46                     | 190.03                 | 562,379.84         | 606,386.16        |
| 9,048.00     | 37.60      | 91.80                | 8,983.88      | -49.54           | -598.02       | -50.06        | 600.11                     | 184.79                 | 562,379.98         | 606,441.94        |
| 9,143.00     | 39.30      | 100.30               | 9,058.33      | 9.08             | -604.32       | 8.55          | 604.38                     | 179.19                 | 562,373.68         | 606,500.55        |
| 9,239.00     | 46.20      | 109.20               | 9,128.85      | 71.86            | -621.18       | 71.31         | 625.26                     | 173.45                 | 562,356.82         | 606,563.31        |
| 9,334.00     | 58.00      | 106.60               | 9,187.11      | 143.12           | -644.05       | 142.55        | 659.63                     | 167.52                 | 562,333.95         | 606,634.55        |





## ProDirectional Survey Report

**Company:**

Matador Resources

Eddy County, NM (NAD83)

Site: Leatherneck 3029 Fed Com

Well: No. 206H

Wellbore: OH

Design: MWD

**Local Co-ordinate Reference:**

TVD Reference: Well @ 3269.50usft

MD Reference: Well @ 3269.50usft

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Database: WellPlanner1

Well No. 206H

Well @ 3269.50usft

Well @ 3269.50usft

Grid

Minimum Curvature

WellPlanner1

**Survey**

| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | V. Sec<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | Closure Distance<br>(usft) | Closure Azimuth<br>(°) | Northing<br>(usft) | Easting<br>(usft) |
|--------------|------------|----------------------|---------------|------------------|---------------|---------------|----------------------------|------------------------|--------------------|-------------------|
| 9,430.00     | 73.50      | 97.30                | 9,226.49      | 228.47           | -661.66       | 227.89        | 699.81                     | 161.00                 | 562,316.34         | 606,719.89        |
| 9,526.00     | 86.80      | 91.90                | 9,242.89      | 322.51           | -669.14       | 321.93        | 742.55                     | 154.31                 | 562,308.86         | 606,813.93        |
| 9,621.00     | 87.60      | 92.40                | 9,247.53      | 417.33           | -672.70       | 416.75        | 791.33                     | 148.22                 | 562,305.30         | 606,908.75        |
| 9,716.00     | 88.30      | 93.20                | 9,250.93      | 512.16           | -677.34       | 511.57        | 848.82                     | 142.94                 | 562,300.66         | 607,003.57        |
| 9,812.00     | 90.10      | 92.00                | 9,252.27      | 608.05           | -681.69       | 607.46        | 913.08                     | 138.30                 | 562,296.31         | 607,099.46        |
| 9,907.00     | 91.90      | 89.40                | 9,250.61      | 703.02           | -682.85       | 702.43        | 979.64                     | 134.19                 | 562,295.15         | 607,194.43        |
| 10,003.00    | 91.30      | 87.60                | 9,247.93      | 798.94           | -680.34       | 798.35        | 1,048.92                   | 130.44                 | 562,297.66         | 607,290.35        |
| 10,098.00    | 86.60      | 88.20                | 9,249.67      | 893.83           | -676.86       | 893.24        | 1,120.72                   | 127.15                 | 562,301.14         | 607,385.24        |
| 10,194.00    | 86.20      | 90.00                | 9,255.70      | 989.63           | -675.35       | 989.04        | 1,197.62                   | 124.33                 | 562,302.65         | 607,481.04        |
| 10,289.00    | 86.40      | 89.80                | 9,261.83      | 1,084.43         | -675.19       | 1,083.84      | 1,276.95                   | 121.92                 | 562,302.81         | 607,575.84        |
| 10,385.00    | 86.70      | 91.80                | 9,267.60      | 1,180.24         | -676.53       | 1,179.65      | 1,359.88                   | 119.83                 | 562,301.47         | 607,671.65        |
| 10,428.00    | 87.30      | 91.80                | 9,269.85      | 1,223.16         | -677.88       | 1,222.57      | 1,397.93                   | 119.01                 | 562,300.12         | 607,714.57        |
| 10,523.00    | 87.50      | 91.20                | 9,274.16      | 1,318.03         | -680.36       | 1,317.44      | 1,482.75                   | 117.31                 | 562,297.64         | 607,809.44        |
| 10,619.00    | 86.90      | 90.50                | 9,278.85      | 1,413.91         | -681.78       | 1,413.31      | 1,569.17                   | 115.75                 | 562,296.22         | 607,905.31        |
| 10,715.00    | 90.60      | 90.50                | 9,280.95      | 1,509.87         | -682.62       | 1,509.27      | 1,656.46                   | 114.34                 | 562,295.38         | 608,001.27        |
| 10,808.00    | 90.10      | 89.80                | 9,280.38      | 1,602.86         | -682.86       | 1,602.27      | 1,741.71                   | 113.08                 | 562,295.14         | 608,094.27        |
| 10,901.00    | 89.70      | 90.90                | 9,280.54      | 1,695.86         | -683.43       | 1,695.26      | 1,827.84                   | 111.96                 | 562,294.57         | 608,187.26        |
| 10,993.00    | 86.20      | 91.80                | 9,283.83      | 1,787.76         | -685.60       | 1,787.17      | 1,914.16                   | 110.99                 | 562,292.40         | 608,279.17        |
| 11,086.00    | 85.50      | 91.80                | 9,290.56      | 1,880.47         | -688.51       | 1,879.87      | 2,001.99                   | 110.12                 | 562,289.49         | 608,371.87        |
| 11,179.00    | 86.50      | 91.90                | 9,297.05      | 1,973.20         | -691.51       | 1,972.60      | 2,090.29                   | 109.32                 | 562,286.49         | 608,464.60        |
| 11,272.00    | 86.70      | 92.00                | 9,302.57      | 2,065.99         | -694.66       | 2,065.38      | 2,179.07                   | 108.59                 | 562,283.34         | 608,557.38        |
| 11,365.00    | 86.90      | 91.90                | 9,307.76      | 2,158.79         | -697.82       | 2,158.18      | 2,268.20                   | 107.92                 | 562,280.18         | 608,650.18        |
| 11,457.00    | 87.00      | 91.50                | 9,312.65      | 2,250.62         | -700.55       | 2,250.01      | 2,356.55                   | 107.29                 | 562,277.45         | 608,742.01        |
| 11,550.00    | 85.50      | 91.20                | 9,318.73      | 2,343.40         | -702.74       | 2,342.78      | 2,445.91                   | 106.70                 | 562,275.26         | 608,834.78        |
| 11,642.00    | 87.30      | 90.40                | 9,324.51      | 2,435.20         | -704.02       | 2,434.59      | 2,534.34                   | 106.13                 | 562,273.98         | 608,926.59        |
| 11,738.00    | 91.50      | 91.20                | 9,325.52      | 2,531.17         | -705.36       | 2,530.55      | 2,627.02                   | 105.58                 | 562,272.64         | 609,022.55        |
| 11,834.00    | 94.20      | 90.90                | 9,320.74      | 2,627.02         | -707.11       | 2,626.41      | 2,719.93                   | 105.07                 | 562,270.89         | 609,118.41        |



## ProDirectional Survey Report

**Company:**

Matador Resources

**Project:**

Eddy County, NM (NAD83)

**Site:**

Leathemack 3029 Fed Com

**Well:**

No. 206H

**Wellbore:**

OH

**Design:**

MWD

**Local Co-ordinate References:**

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Database:

Well No. 206H

Well @ 3269.50usft

Well @ 3269.50usft

Grid

Minimum Curvature

WellPlanner1

**Survey**

| MD<br>(usft) | Inc<br>(°) | Azi<br>(azimuth)<br>(°) | TVD<br>(usft) | V. Sec<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | Closure Distance<br>(usft) | Closure Azimuth<br>(°) | Northing<br>(usft) | Easting<br>(usft) |
|--------------|------------|-------------------------|---------------|------------------|---------------|---------------|----------------------------|------------------------|--------------------|-------------------|
| 11,929.00    | 93.20      | 91.40                   | 9,314.61      | 2,721.81         | -709.02       | 2,721.19      | 2,812.04                   | 104.60                 | 562,268.98         | 609,213.19        |
| 12,025.00    | 91.10      | 91.30                   | 9,311.01      | 2,817.71         | -711.28       | 2,817.09      | 2,905.50                   | 104.17                 | 562,266.72         | 609,309.09        |
| 12,120.00    | 91.70      | 91.60                   | 9,308.69      | 2,912.65         | -713.68       | 2,912.03      | 2,998.21                   | 103.77                 | 562,264.32         | 609,404.03        |
| 12,216.00    | 89.30      | 91.40                   | 9,307.85      | 3,008.61         | -716.19       | 3,007.99      | 3,092.07                   | 103.39                 | 562,261.81         | 609,499.99        |
| 12,312.00    | 90.60      | 91.70                   | 9,307.94      | 3,104.58         | -718.79       | 3,103.95      | 3,186.09                   | 103.04                 | 562,259.21         | 609,595.95        |
| 12,407.00    | 88.20      | 90.90                   | 9,308.93      | 3,199.54         | -720.95       | 3,198.91      | 3,279.15                   | 102.70                 | 562,257.05         | 609,690.91        |
| 12,503.00    | 88.10      | 90.10                   | 9,312.03      | 3,295.49         | -721.78       | 3,294.86      | 3,372.99                   | 102.36                 | 562,256.22         | 609,786.86        |
| 12,598.00    | 88.50      | 89.70                   | 9,314.85      | 3,390.44         | -721.62       | 3,389.82      | 3,465.77                   | 102.02                 | 562,256.38         | 609,881.82        |
| 12,694.00    | 89.00      | 89.30                   | 9,316.94      | 3,486.42         | -720.78       | 3,485.79      | 3,559.53                   | 101.68                 | 562,257.22         | 609,977.79        |
| 12,789.00    | 89.60      | 89.80                   | 9,318.10      | 3,581.40         | -720.03       | 3,580.78      | 3,652.45                   | 101.37                 | 562,257.97         | 610,072.78        |
| 12,885.00    | 90.30      | 89.80                   | 9,318.19      | 3,677.40         | -719.70       | 3,676.78      | 3,746.55                   | 101.08                 | 562,258.30         | 610,168.78        |
| 12,980.00    | 88.50      | 89.60                   | 9,319.18      | 3,772.39         | -719.20       | 3,771.77      | 3,839.72                   | 100.80                 | 562,258.80         | 610,263.77        |
| 13,076.00    | 89.20      | 89.70                   | 9,321.11      | 3,868.37         | -718.61       | 3,867.74      | 3,933.94                   | 100.53                 | 562,259.39         | 610,359.74        |
| 13,172.00    | 88.70      | 89.80                   | 9,322.87      | 3,964.35         | -718.20       | 3,963.73      | 4,028.27                   | 100.27                 | 562,259.80         | 610,455.73        |
| 13,267.00    | 88.30      | 90.10                   | 9,325.35      | 4,059.32         | -718.11       | 4,058.69      | 4,121.73                   | 100.03                 | 562,259.89         | 610,550.69        |
| 13,363.00    | 88.00      | 90.20                   | 9,328.45      | 4,155.27         | -718.36       | 4,154.64      | 4,216.29                   | 99.81                  | 562,259.64         | 610,646.64        |
| 13,458.00    | 88.40      | 89.80                   | 9,331.44      | 4,250.22         | -718.36       | 4,249.60      | 4,309.89                   | 99.59                  | 562,259.64         | 610,741.60        |
| 13,554.00    | 88.30      | 89.70                   | 9,334.20      | 4,346.18         | -717.95       | 4,345.56      | 4,404.46                   | 99.38                  | 562,260.05         | 610,837.56        |
| 13,650.00    | 88.10      | 89.50                   | 9,337.22      | 4,442.13         | -717.28       | 4,441.51      | 4,499.05                   | 99.17                  | 562,260.72         | 610,933.51        |
| 13,745.00    | 88.20      | 89.50                   | 9,340.28      | 4,537.08         | -716.45       | 4,536.45      | 4,592.68                   | 98.97                  | 562,261.55         | 611,028.45        |
| 13,841.00    | 88.20      | 89.40                   | 9,343.30      | 4,633.02         | -715.53       | 4,632.40      | 4,687.34                   | 98.78                  | 562,262.47         | 611,124.40        |
| 13,937.00    | 88.20      | 89.40                   | 9,346.32      | 4,728.97         | -714.52       | 4,728.35      | 4,782.03                   | 98.59                  | 562,263.48         | 611,220.35        |
| 14,032.00    | 88.30      | 89.40                   | 9,349.22      | 4,823.92         | -713.53       | 4,823.30      | 4,875.79                   | 98.41                  | 562,264.47         | 611,315.30        |
| 14,128.00    | 88.60      | 89.40                   | 9,351.81      | 4,919.88         | -712.52       | 4,919.26      | 4,970.59                   | 98.24                  | 562,265.48         | 611,411.26        |
| 14,223.00    | 89.40      | 89.40                   | 9,353.47      | 5,014.86         | -711.53       | 5,014.24      | 5,064.47                   | 98.08                  | 562,266.47         | 611,506.24        |
| 14,316.00    | 89.20      | 89.20                   | 9,354.61      | 5,107.84         | -710.39       | 5,107.22      | 5,156.39                   | 97.92                  | 562,267.61         | 611,599.22        |
| 14,412.00    | 89.40      | 88.90                   | 9,355.78      | 5,203.82         | -708.80       | 5,203.20      | 5,251.26                   | 97.76                  | 562,269.20         | 611,695.20        |



## ProDirectional Survey Report



| <b>Company:</b> Matador Resources       |            | <b>Local Co-ordinate Reference:</b> |               |                  |               |               |                            | <b>Well No. 206H</b>      |                    |                   |  |
|-----------------------------------------|------------|-------------------------------------|---------------|------------------|---------------|---------------|----------------------------|---------------------------|--------------------|-------------------|--|
| <b>Project:</b> Eddy County, NM (NAD83) |            | <b>TVD Reference:</b>               |               |                  |               |               |                            | <b>Well @ 3269.50usft</b> |                    |                   |  |
| <b>Site:</b> Leatherneck 3029 Fed Com   |            | <b>MD Reference:</b>                |               |                  |               |               |                            | <b>Well @ 3269.50usft</b> |                    |                   |  |
| <b>Well:</b> No. 206H                   |            | <b>North Reference:</b>             |               |                  |               |               |                            | <b>Grid</b>               |                    |                   |  |
| <b>Wellbore:</b> OH                     |            | <b>Survey Calculation Method:</b>   |               |                  |               |               |                            | <b>Minimum Curvature</b>  |                    |                   |  |
| <b>Design:</b> MWD                      |            | <b>Database:</b>                    |               |                  |               |               |                            | <b>WellPlanner1</b>       |                    |                   |  |
| <b>Survey</b>                           |            |                                     |               |                  |               |               |                            |                           |                    |                   |  |
| MD<br>(usft)                            | Inc<br>(°) | Azi (azimuth)<br>(°)                | TVD<br>(usft) | V. Sec<br>(usft) | N/S<br>(usft) | E/W<br>(usft) | Closure Distance<br>(usft) | Closure Azimuth<br>(°)    | Northing<br>(usft) | Easting<br>(usft) |  |
| 14,508.00                               | 89.40      | 88.50                               | 9,356.79      | 5,299.79         | -706.62       | 5,299.17      | 5,346.08                   | 97.60                     | 562,271.38         | 611,791.17        |  |
| 14,603.00                               | 89.90      | 90.50                               | 9,357.37      | 5,394.78         | -705.79       | 5,394.16      | 5,440.14                   | 97.45                     | 562,272.21         | 611,886.16        |  |
| 14,699.00                               | 88.90      | 91.30                               | 9,358.37      | 5,490.76         | -707.30       | 5,490.14      | 5,535.52                   | 97.34                     | 562,270.70         | 611,982.14        |  |
| 14,794.00                               | 87.70      | 90.70                               | 9,361.19      | 5,585.70         | -708.96       | 5,585.08      | 5,629.90                   | 97.23                     | 562,269.04         | 612,077.08        |  |
| 14,890.00                               | 88.80      | 90.90                               | 9,364.12      | 5,681.65         | -710.30       | 5,681.03      | 5,725.26                   | 97.13                     | 562,267.70         | 612,173.03        |  |
| 14,985.00                               | 89.30      | 90.30                               | 9,365.70      | 5,776.63         | -711.29       | 5,776.01      | 5,819.64                   | 97.02                     | 562,266.71         | 612,268.01        |  |
| 15,081.00                               | 89.10      | 90.20                               | 9,367.04      | 5,872.62         | -711.71       | 5,872.00      | 5,914.97                   | 96.91                     | 562,266.29         | 612,364.00        |  |
| 15,176.00                               | 90.60      | 90.40                               | 9,367.29      | 5,967.61         | -712.21       | 5,967.00      | 6,009.35                   | 96.81                     | 562,265.79         | 612,459.00        |  |
| 15,271.00                               | 88.30      | 89.90                               | 9,368.20      | 6,062.60         | -712.46       | 6,061.98      | 6,103.71                   | 96.70                     | 562,265.54         | 612,553.98        |  |
| 15,367.00                               | 90.30      | 90.40                               | 9,369.37      | 6,158.59         | -712.71       | 6,157.97      | 6,199.08                   | 96.60                     | 562,265.29         | 612,649.97        |  |
| 15,462.00                               | 91.50      | 90.40                               | 9,367.88      | 6,253.58         | -713.37       | 6,252.96      | 6,293.52                   | 96.51                     | 562,264.63         | 612,744.96        |  |
| 15,558.00                               | 92.30      | 90.40                               | 9,364.69      | 6,349.52         | -714.04       | 6,348.90      | 6,388.93                   | 96.42                     | 562,263.96         | 612,840.90        |  |
| 15,653.00                               | 92.00      | 90.20                               | 9,361.13      | 6,444.45         | -714.54       | 6,443.83      | 6,483.33                   | 96.33                     | 562,263.46         | 612,935.83        |  |
| 15,749.00                               | 90.80      | 90.60                               | 9,358.79      | 6,540.42         | -715.21       | 6,539.80      | 6,578.79                   | 96.24                     | 562,262.79         | 613,031.80        |  |
| 15,845.00                               | 90.80      | 91.00                               | 9,357.45      | 6,636.40         | -716.55       | 6,635.78      | 6,674.35                   | 96.16                     | 562,261.45         | 613,127.78        |  |
| 15,940.00                               | 89.60      | 91.00                               | 9,357.11      | 6,731.39         | -718.21       | 6,730.76      | 6,768.97                   | 96.09                     | 562,259.79         | 613,222.76        |  |
| 16,036.00                               | 88.00      | 89.90                               | 9,359.12      | 6,827.36         | -718.96       | 6,826.73      | 6,864.49                   | 96.01                     | 562,259.04         | 613,318.73        |  |
| 16,131.00                               | 88.30      | 90.10                               | 9,362.19      | 6,922.31         | -718.96       | 6,921.68      | 6,958.92                   | 95.93                     | 562,259.04         | 613,413.68        |  |
| 16,227.00                               | 91.70      | 90.40                               | 9,362.19      | 7,018.29         | -719.38       | 7,017.67      | 7,054.44                   | 95.85                     | 562,258.62         | 613,509.67        |  |
| 16,322.00                               | 90.00      | 90.40                               | 9,360.78      | 7,113.28         | -720.04       | 7,112.65      | 7,149.01                   | 95.78                     | 562,257.96         | 613,604.65        |  |
| 16,418.00                               | 90.20      | 90.80                               | 9,360.61      | 7,209.27         | -721.05       | 7,208.65      | 7,244.62                   | 95.71                     | 562,256.95         | 613,700.65        |  |
| 16,514.00                               | 89.20      | 91.30                               | 9,361.12      | 7,305.26         | -722.81       | 7,304.63      | 7,340.30                   | 95.65                     | 562,255.19         | 613,796.63        |  |
| 16,609.00                               | 86.60      | 91.50                               | 9,364.60      | 7,400.16         | -725.13       | 7,399.53      | 7,434.97                   | 95.60                     | 562,252.87         | 613,891.53        |  |
| 16,705.00                               | 86.30      | 91.40                               | 9,370.54      | 7,495.95         | -727.55       | 7,495.31      | 7,530.54                   | 95.54                     | 562,250.45         | 613,987.31        |  |
| 16,801.00                               | 86.60      | 91.30                               | 9,376.49      | 7,591.74         | -729.81       | 7,591.10      | 7,626.10                   | 95.49                     | 562,248.19         | 614,083.10        |  |
| 16,896.00                               | 87.30      | 91.30                               | 9,381.54      | 7,686.58         | -731.96       | 7,685.94      | 7,720.72                   | 95.44                     | 562,246.04         | 614,177.94        |  |
| 16,992.00                               | 87.50      | 91.20                               | 9,385.90      | 7,782.46         | -734.05       | 7,781.82      | 7,816.37                   | 95.39                     | 562,243.95         | 614,273.82        |  |





## ProDirectional Survey Report



Company: Matador Resources  
Project: Eddy County, NM (NAD83)  
Site: Leatherneck 3029 Fed Com  
Well: No. 206H  
Wellbore: OH  
Design: MWD

Local Co-ordinate Reference:  
TVD Reference:  
MD Reference:  
North Reference:  
Survey Calculation Method:  
Database:

Well No. 206H  
Well @ 3269.50usft  
Well @ 3269.50usft  
Grid  
Minimum Curvature  
WellPlanner1

### Survey

| MD<br>(usft) | Inc<br>(°) | Azi (azimuth)<br>(°) | TVD<br>(usft) | V. Sec<br>(usft) | N/S<br>(usft) | EW<br>(usft) | Closure Distance<br>(usft) | Closure Azimuth<br>(°) | Northing<br>(usft) | Easting<br>(usft) |
|--------------|------------|----------------------|---------------|------------------|---------------|--------------|----------------------------|------------------------|--------------------|-------------------|
| 17,087.00    | 89.00      | 90.70                | 9,388.80      | 7,877.40         | -735.63       | 7,876.76     | 7,911.04                   | 95.34                  | 562,242.37         | 614,368.76        |
| 17,183.00    | 90.40      | 90.20                | 9,389.30      | 7,973.39         | -736.38       | 7,972.75     | 8,006.69                   | 95.28                  | 562,241.62         | 614,464.75        |
| 17,278.00    | 92.20      | 89.70                | 9,387.14      | 8,068.36         | -736.30       | 8,067.72     | 8,101.25                   | 95.21                  | 562,241.70         | 614,559.72        |
| 17,374.00    | 93.60      | 89.20                | 9,382.29      | 8,164.23         | -735.38       | 8,163.59     | 8,196.65                   | 95.15                  | 562,242.62         | 614,655.59        |
| 17,470.00    | 92.70      | 89.30                | 9,377.01      | 8,260.08         | -734.12       | 8,259.44     | 8,292.00                   | 95.08                  | 562,243.88         | 614,751.44        |
| 17,565.00    | 89.80      | 88.60                | 9,374.94      | 8,355.03         | -732.38       | 8,354.39     | 8,386.43                   | 95.01                  | 562,245.62         | 614,846.39        |
| 17,661.00    | 86.70      | 87.90                | 9,377.87      | 8,450.92         | -729.45       | 8,450.29     | 8,481.72                   | 94.93                  | 562,248.55         | 614,942.29        |
| 17,756.00    | 89.10      | 88.40                | 9,381.35      | 8,545.80         | -726.39       | 8,545.17     | 8,575.99                   | 94.86                  | 562,251.61         | 615,037.17        |
| 17,852.00    | 89.90      | 88.30                | 9,382.19      | 8,641.75         | -723.62       | 8,641.12     | 8,671.37                   | 94.79                  | 562,254.38         | 615,133.12        |
| 17,947.00    | 89.40      | 88.10                | 9,382.77      | 8,736.70         | -720.64       | 8,736.08     | 8,765.75                   | 94.72                  | 562,257.36         | 615,228.08        |
| 18,043.00    | 90.90      | 88.20                | 9,382.52      | 8,832.65         | -717.54       | 8,832.02     | 8,861.12                   | 94.64                  | 562,260.46         | 615,324.02        |
| 18,138.00    | 89.60      | 88.70                | 9,382.10      | 8,927.61         | -714.97       | 8,926.98     | 8,955.57                   | 94.58                  | 562,263.03         | 615,418.98        |
| 18,233.00    | 87.60      | 87.70                | 9,384.43      | 9,022.52         | -711.99       | 9,021.90     | 9,049.95                   | 94.51                  | 562,266.01         | 615,513.90        |
| 18,329.00    | 88.30      | 88.90                | 9,387.86      | 9,118.41         | -709.14       | 9,117.80     | 9,145.33                   | 94.45                  | 562,268.86         | 615,609.80        |
| 18,424.00    | 89.00      | 89.30                | 9,390.10      | 9,213.37         | -707.65       | 9,212.76     | 9,239.90                   | 94.39                  | 562,270.35         | 615,704.76        |
| 18,520.00    | 91.10      | 89.60                | 9,390.01      | 9,309.36         | -706.73       | 9,308.75     | 9,335.54                   | 94.34                  | 562,271.27         | 615,800.75        |
| 18,615.00    | 89.40      | 89.70                | 9,389.60      | 9,404.36         | -706.15       | 9,403.74     | 9,430.22                   | 94.29                  | 562,271.85         | 615,895.74        |
| 18,711.00    | 88.60      | 89.70                | 9,391.27      | 9,500.34         | -705.65       | 9,499.73     | 9,525.90                   | 94.25                  | 562,272.35         | 615,991.73        |
| 18,807.00    | 86.90      | 90.40                | 9,395.04      | 9,596.26         | -705.73       | 9,595.65     | 9,621.56                   | 94.21                  | 562,272.27         | 616,087.65        |
| 18,903.00    | 89.80      | 91.40                | 9,397.81      | 9,692.20         | -707.24       | 9,691.58     | 9,717.36                   | 94.17                  | 562,270.76         | 616,183.58        |
| 18,998.00    | 87.30      | 91.10                | 9,400.21      | 9,787.14         | -709.31       | 9,786.52     | 9,812.19                   | 94.15                  | 562,268.69         | 616,278.52        |
| 19,094.00    | 85.60      | 91.30                | 9,406.16      | 9,882.93         | -711.32       | 9,882.32     | 9,907.88                   | 94.12                  | 562,266.68         | 616,374.32        |
| 19,189.00    | 87.90      | 92.00                | 9,411.54      | 9,977.74         | -714.05       | 9,977.12     | 10,002.64                  | 94.09                  | 562,263.95         | 616,469.12        |
| 19,285.00    | 88.10      | 92.20                | 9,414.89      | 10,073.62        | -717.56       | 10,072.99    | 10,098.52                  | 94.07                  | 562,260.44         | 616,564.99        |
| 19,340.00    | 88.00      | 92.20                | 9,416.76      | 10,128.54        | -719.67       | 10,127.92    | 10,153.46                  | 94.06                  | 562,258.33         | 616,619.92        |

Last Survey: 19340' MD





# ProDirectional Survey Report



|                                  |         |                   |            |                              |            |            |                         |                     |                 |                |  |
|----------------------------------|---------|-------------------|------------|------------------------------|------------|------------|-------------------------|---------------------|-----------------|----------------|--|
| Company: Matador Resources       |         |                   |            | Local Co-ordinate Reference: |            |            |                         | Well No. 206H       |                 |                |  |
| Project: Eddy County, NM (NAD83) |         |                   |            | TVD Reference:               |            |            |                         | Well @ 3269.50usft  |                 |                |  |
| Site: Leathemeck 3029 Fed Com    |         |                   |            | MD Reference:                |            |            |                         | Well @ 3269.50usft  |                 |                |  |
| Well: No. 206H                   |         |                   |            | North Reference:             |            |            |                         | Grid                |                 |                |  |
| Wellbore: OH                     |         |                   |            | Survey Calculation Method:   |            |            |                         | Minimum Curvature   |                 |                |  |
| Design: MWD                      |         |                   |            | Database:                    |            |            |                         | WellPlanner1        |                 |                |  |
| Survey                           |         |                   |            |                              |            |            |                         |                     |                 |                |  |
| MD (usft)                        | Inc (°) | Azi (azimuth) (°) | TVD (usft) | V. Sec (usft)                | N/S (usft) | E/W (usft) | Closure Distance (usft) | Closure Azimuth (°) | Northing (usft) | Easting (usft) |  |
| 19,420.00                        | 88.00   | 92.20             | 9,419.55   | 10,208.44                    | -722.74    | 10,207.81  | 10,233.37               | 94.05               | 562,255.26      | 616,699.81     |  |
| PTB: 19420' MD                   |         |                   |            |                              |            |            |                         |                     |                 |                |  |

|                       |  |                       |                   |         |             |  |             |  |                               |  |  |
|-----------------------|--|-----------------------|-------------------|---------|-------------|--|-------------|--|-------------------------------|--|--|
| Design Annotations    |  |                       |                   |         |             |  |             |  |                               |  |  |
| Measured Depth (usft) |  | Vertical Depth (usft) | Local Coordinates |         | +N/S (usft) |  | +E/W (usft) |  | Comment                       |  |  |
| 408.00                |  | 407.92                |                   | 6.51    |             |  | 2.34        |  | Pro MWD First Survey: 408' MD |  |  |
| 19,340.00             |  | 9,416.76              |                   | -719.67 |             |  | 10,127.92   |  | Last Survey: 19340' MD        |  |  |
| 19,420.00             |  | 9,419.55              |                   | -722.74 |             |  | 10,207.81   |  | PTB: 19420' MD                |  |  |