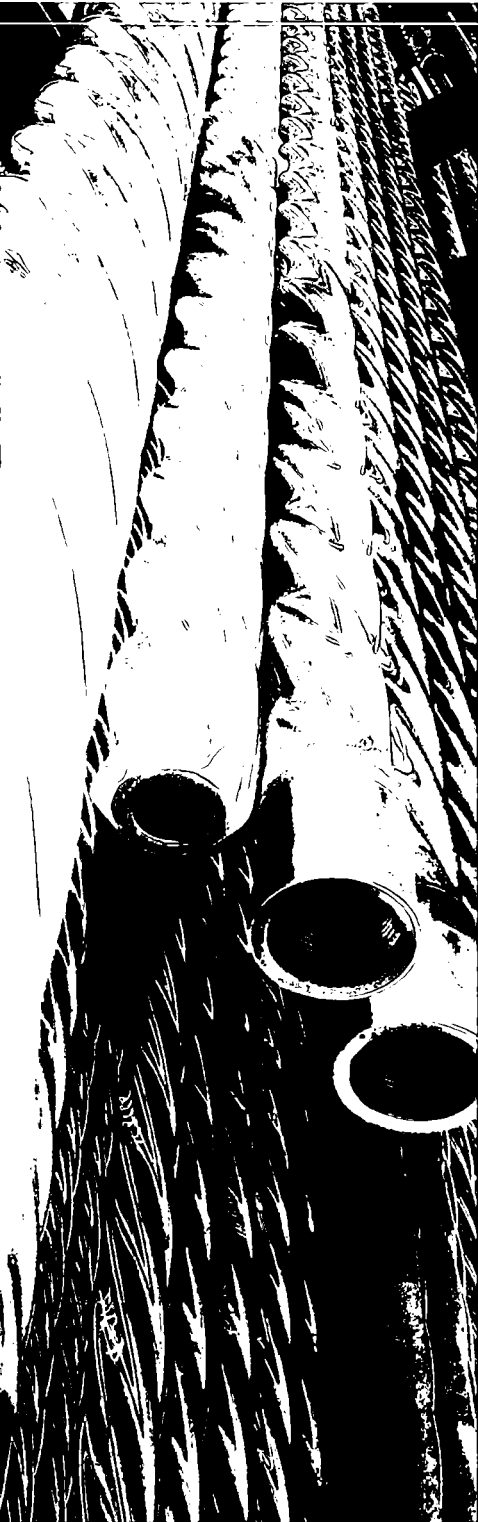




30-015-43593



HOBBS CCD

APR 10 2018

RECEIVED



devon

Tomb Raider 1-12 Fed No. 512H

Eddy County, NM

February 13, 2018

Job No. LNM5161517

RECEIVED

MAY 16 2018

DISTRICT II-ARTESIA O.C.D.

Survey Completion Report



PRODIRECTIONAL

Professional Directional Ent., Inc.

February 13, 2018



Operator Name: Devon Energy Corp.
Well Name: Tomb Raider 1-12 Fed No. 512H
County/Parish: Eddy County,
State: NM
Rig Name: Cactus 126
Job Number: LNM5161517

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 | 171' MD – 18,907' MD | 18,965' MD | 01/02/18 – 01/17/18 | MWD |

Sincerely,

Mike Coats
Regulatory Specialist
Professional Directional

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

prodirectional.com



Devon Energy Corp.

**Eddy County, NM
Tomb Raider 1-12 Fed
No. 512H
OH**

Survey: ProDirectional

Survey Report

13 February, 2018

HOBBS OCD

APR 10 2018

RECEIVED





ProDirectional Survey Report



Company: Devon Energy Corp.
Project: Eddy County, NM (NAD83)
Site: Tomb Raider 1-12 Fed
Well: 512H
Wellbore: OH
Design: Surveys 171-18965 MD

Local Co-ordinate Reference: Well 512H
TVD Reference: GL 3454'+KB 26' @ 3480.00usft (Cactus 126)
MD Reference: GL 3454'+KB 26' @ 3480.00usft (Cactus 126)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

| | | | |
|--------------------|---------------------------|----------------------|----------------|
| Project | Eddy County, NM (NAD83) | | |
| Map System: | US State Plane 1983 | System Datum: | Mean Sea Level |
| Geo Datum: | North American Datum 1983 | | |
| Map Zone: | New Mexico Eastern Zone | | |

| | | | |
|------------------------------|----------------------|--------------------------|-----------------|
| Site | Tomb Raider 1-12 Fed | | |
| Site Position: | | Northing: | 488,001.88 usft |
| From: | Map | Easting: | 726,025.92 usft |
| Position Uncertainty: | 0.00 usft | Slot Radius: | 13-3/16 " |
| | | Latitude: | 32.340171 |
| | | Longitude: | -103.735328 |
| | | Grid Convergence: | 0.32 ° |

| | | | | | | |
|-----------------------------|--------------|-----------|----------------------------|-----------------|----------------------|---------------|
| Well | 512H | | | | | |
| Well Position | +N/-S | 0.00 usft | Northing: | 488,001.88 usft | Latitude: | 32.340171 |
| | +E/-W | 0.00 usft | Easting: | 726,025.92 usft | Longitude: | -103.735328 |
| Position Uncertainty | | 0.00 usft | Wellhead Elevation: | usft | Ground Level: | 3,454.00 usft |

| | | | | | | |
|------------------|-------------------|--------------------|--------------------|------------------|-----------------------|--|
| Wellbore | OH | | | | | |
| Magnetics | Model Name | Sample Date | Declination | Dip Angle | Field Strength | |
| | | | (°) | (°) | (nT) | |
| | HDGM | 12/31/2017 | 6.97 | 60.13 | 48,158.20 | |

| | | | | | |
|--------------------------|----------------------|-------------------------|--------------|----------------------|------------------|
| Design | Surveys 171-18965 MD | | | | |
| Audit Notes: | | | | | |
| Version: | 1.0 | Phase: | ACTUAL | Tie On Depth: | 0.00 |
| Vertical Section: | | Depth From (TVD) | +N/-S | +E/-W | Direction |
| | | (usft) | (usft) | (usft) | (°) |
| | | 0.00 | 0.00 | 0.00 | 179.64 |

| | | | | | |
|-----------------------|-------------|--------------------------|------------------|--------------------|--|
| Survey Program | Date | 2/13/2018 | | | |
| From | To | Survey (Wellbore) | Tool Name | Description | |
| (usft) | (usft) | | | | |
| 171.00 | 18,965.00 | Survey #1 (OH) | MWD+HDGM | OWSG MWD + HDGM | |



ProDirectional
Survey Report



Company: Devon Energy Corp.
Project: Eddy County, NM (NAD83)
Site: Tomb Raider 1-12 Fed
Well: 512H
Wellbore: OH
Design: Surveys 171-18965 MD

Local Co-ordinate Reference: Well 512H
TVD Reference: GL 3454'+KB 26' @ 3480.00usft (Cactus 126)
MD Reference: GL 3454'+KB 26' @ 3480.00usft (Cactus 126)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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) |
|--------------------------------------|---------|-------------------|------------|---------------|------------|------------|-------------------------|---------------------|-----------------|----------------|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 488,001.88 | 726,025.92 |
| 171.00 | 0.10 | 115.10 | 171.00 | 0.06 | -0.06 | 0.14 | 0.15 | 115.10 | 488,001.82 | 726,026.06 |
| Pro MWD First Survey: 171' MD | | | | | | | | | | |
| 271.00 | 0.20 | 316.70 | 271.00 | -0.03 | 0.03 | 0.09 | 0.10 | 74.22 | 488,001.91 | 726,026.01 |
| 361.00 | 0.30 | 296.50 | 361.00 | -0.25 | 0.25 | -0.22 | 0.33 | 317.68 | 488,002.13 | 726,025.70 |
| 454.00 | 0.10 | 250.70 | 454.00 | -0.33 | 0.33 | -0.52 | 0.61 | 302.31 | 488,002.21 | 726,025.40 |
| 546.00 | 0.40 | 282.10 | 546.00 | -0.37 | 0.37 | -0.91 | 0.98 | 292.09 | 488,002.25 | 726,025.01 |
| 637.00 | 0.50 | 299.40 | 636.99 | -0.64 | 0.63 | -1.56 | 1.69 | 291.94 | 488,002.51 | 726,024.36 |
| 729.00 | 0.60 | 273.80 | 728.99 | -0.87 | 0.86 | -2.40 | 2.54 | 289.73 | 488,002.74 | 726,023.52 |
| 877.00 | 0.50 | 310.20 | 876.98 | -1.35 | 1.33 | -3.66 | 3.89 | 289.93 | 488,003.21 | 726,022.26 |
| 969.00 | 0.30 | 303.10 | 968.98 | -1.74 | 1.72 | -4.17 | 4.51 | 292.39 | 488,003.60 | 726,021.75 |
| 1,062.00 | 0.20 | 11.90 | 1,061.98 | -2.04 | 2.01 | -4.34 | 4.78 | 294.85 | 488,003.89 | 726,021.58 |
| 1,154.00 | 0.20 | 37.50 | 1,153.98 | -2.32 | 2.29 | -4.21 | 4.79 | 298.59 | 488,004.17 | 726,021.71 |
| 1,245.00 | 0.10 | 90.60 | 1,244.98 | -2.44 | 2.42 | -4.03 | 4.70 | 300.96 | 488,004.30 | 726,021.89 |
| 1,337.00 | 0.30 | 22.50 | 1,336.98 | -2.67 | 2.64 | -3.86 | 4.68 | 304.37 | 488,004.52 | 726,022.06 |
| 1,431.00 | 0.30 | 116.10 | 1,430.98 | -2.78 | 2.76 | -3.55 | 4.49 | 307.90 | 488,004.64 | 726,022.37 |
| 1,523.00 | 0.20 | 198.10 | 1,522.98 | -2.52 | 2.50 | -3.38 | 4.20 | 306.51 | 488,004.38 | 726,022.54 |
| 1,616.00 | 0.10 | 116.70 | 1,615.98 | -2.33 | 2.31 | -3.36 | 4.08 | 304.54 | 488,004.19 | 726,022.56 |
| 1,710.00 | 0.20 | 45.90 | 1,709.98 | -2.41 | 2.39 | -3.17 | 3.97 | 307.03 | 488,004.27 | 726,022.75 |
| 1,804.00 | 0.30 | 98.60 | 1,803.98 | -2.48 | 2.47 | -2.81 | 3.73 | 311.31 | 488,004.35 | 726,023.11 |
| 1,898.00 | 0.10 | 294.90 | 1,897.98 | -2.48 | 2.46 | -2.64 | 3.61 | 313.06 | 488,004.34 | 726,023.28 |
| 1,992.00 | 0.20 | 53.40 | 1,991.98 | -2.61 | 2.60 | -2.58 | 3.66 | 315.18 | 488,004.48 | 726,023.34 |
| 2,086.00 | 0.30 | 340.10 | 2,085.98 | -2.94 | 2.92 | -2.53 | 3.87 | 319.13 | 488,004.80 | 726,023.39 |
| 2,180.00 | 0.30 | 256.80 | 2,179.97 | -3.12 | 3.10 | -2.85 | 4.21 | 317.36 | 488,004.98 | 726,023.07 |
| 2,274.00 | 0.10 | 147.20 | 2,273.97 | -2.99 | 2.97 | -3.05 | 4.26 | 314.29 | 488,004.85 | 726,022.87 |
| 2,368.00 | 0.10 | 90.60 | 2,367.97 | -2.92 | 2.91 | -2.92 | 4.12 | 314.82 | 488,004.79 | 726,023.00 |
| 2,462.00 | 0.70 | 312.10 | 2,461.97 | -3.31 | 3.29 | -3.27 | 4.64 | 315.19 | 488,005.17 | 726,022.65 |



ProDirectional
Survey Report



Company: Devon Energy Corp.
Project: Eddy County, NM (NAD83)
Site: Tomb Raider 1-12 Fed
Well: 512H
Wellbore: OH
Design: Surveys 171-18965 MD

Local Co-ordinate Reference: Well 512H
TVD Reference: GL 3454'+KB 26' @ 3480.00usft (Cactus 126)
MD Reference: GL 3454'+KB 26' @ 3480.00usft (Cactus 126)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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) |
|-----------|---------|-------------------|------------|---------------|------------|------------|-------------------------|---------------------|-----------------|----------------|
| 2,556.00 | 1.20 | 310.50 | 2,555.96 | -4.34 | 4.31 | -4.44 | 6.19 | 314.16 | 488,006.19 | 726,021.48 |
| 2,650.00 | 2.10 | 304.20 | 2,649.92 | -5.96 | 5.92 | -6.61 | 8.88 | 311.83 | 488,007.80 | 726,019.31 |
| 2,744.00 | 2.20 | 300.90 | 2,743.85 | -7.88 | 7.82 | -9.59 | 12.37 | 309.19 | 488,009.70 | 726,016.33 |
| 2,838.00 | 1.90 | 305.10 | 2,837.79 | -9.72 | 9.64 | -12.41 | 15.71 | 307.83 | 488,011.52 | 726,013.51 |
| 2,933.00 | 1.90 | 308.00 | 2,932.74 | -11.61 | 11.51 | -14.94 | 18.86 | 307.62 | 488,013.39 | 726,010.98 |
| 3,027.00 | 2.90 | 308.80 | 3,026.66 | -14.08 | 13.96 | -18.02 | 22.80 | 307.77 | 488,015.84 | 726,007.90 |
| 3,121.00 | 3.10 | 308.50 | 3,120.53 | -17.17 | 17.03 | -21.86 | 27.72 | 307.92 | 488,018.91 | 726,004.06 |
| 3,215.00 | 3.20 | 300.90 | 3,214.39 | -20.13 | 19.96 | -26.10 | 32.86 | 307.41 | 488,021.84 | 725,999.82 |
| 3,309.00 | 3.20 | 295.40 | 3,308.24 | -22.63 | 22.44 | -30.72 | 38.05 | 306.14 | 488,024.32 | 725,995.20 |
| 3,403.00 | 3.20 | 300.50 | 3,402.09 | -25.12 | 24.89 | -35.36 | 43.24 | 305.15 | 488,026.77 | 725,990.56 |
| 3,497.00 | 3.80 | 298.10 | 3,495.92 | -27.95 | 27.69 | -40.36 | 48.95 | 304.45 | 488,029.57 | 725,985.56 |
| 3,591.00 | 3.40 | 296.80 | 3,589.73 | -30.70 | 30.42 | -45.60 | 54.81 | 303.70 | 488,032.30 | 725,980.32 |
| 3,685.00 | 2.80 | 298.80 | 3,683.59 | -33.09 | 32.78 | -50.10 | 59.87 | 303.20 | 488,034.66 | 725,975.82 |
| 3,778.00 | 3.30 | 306.20 | 3,776.46 | -35.79 | 35.45 | -54.25 | 64.81 | 303.17 | 488,037.33 | 725,971.67 |
| 3,873.00 | 4.10 | 305.80 | 3,871.26 | -39.43 | 39.06 | -59.21 | 70.93 | 303.41 | 488,040.94 | 725,966.71 |
| 3,967.00 | 3.70 | 300.40 | 3,965.05 | -42.96 | 42.56 | -64.55 | 77.32 | 303.40 | 488,044.44 | 725,961.37 |
| 4,061.00 | 3.60 | 295.70 | 4,058.86 | -45.81 | 45.37 | -69.83 | 83.27 | 303.01 | 488,047.25 | 725,956.09 |
| 4,155.00 | 4.30 | 298.60 | 4,152.63 | -48.81 | 48.34 | -75.58 | 89.72 | 302.60 | 488,050.22 | 725,950.34 |
| 4,249.00 | 4.30 | 300.45 | 4,246.37 | -52.32 | 51.81 | -81.71 | 96.75 | 302.38 | 488,053.69 | 725,944.21 |
| 4,343.00 | 3.50 | 300.40 | 4,340.15 | -55.60 | 55.05 | -87.23 | 103.14 | 302.26 | 488,056.93 | 725,938.69 |
| 4,437.00 | 3.90 | 301.60 | 4,433.95 | -58.76 | 58.18 | -92.42 | 109.21 | 302.19 | 488,060.06 | 725,933.50 |
| 4,531.00 | 3.80 | 302.70 | 4,527.74 | -62.15 | 61.53 | -97.77 | 115.52 | 302.19 | 488,063.41 | 725,928.15 |
| 4,625.00 | 4.20 | 300.80 | 4,621.51 | -65.63 | 64.98 | -103.35 | 122.08 | 302.16 | 488,066.86 | 725,922.57 |
| 4,719.00 | 4.40 | 301.00 | 4,715.25 | -69.28 | 68.60 | -109.39 | 129.12 | 302.09 | 488,070.48 | 725,916.53 |
| 4,813.00 | 3.90 | 302.20 | 4,809.00 | -72.88 | 72.16 | -115.19 | 135.92 | 302.06 | 488,074.04 | 725,910.73 |
| 4,907.00 | 3.30 | 304.10 | 4,902.81 | -76.13 | 75.38 | -120.13 | 141.83 | 302.11 | 488,077.26 | 725,905.79 |
| 5,001.00 | 2.80 | 304.30 | 4,996.68 | -78.97 | 78.19 | -124.27 | 146.82 | 302.18 | 488,080.07 | 725,901.65 |



ProDirectional
Survey Report



Company: Devon Energy Corp.
Project: Eddy County, NM (NAD83)
Site: Tomb Raider 1-12 Fed
Well: 512H
Wellbore: OH
Design: Surveys 171-18965 MD

Local Co-ordinate Reference: Well 512H
TVD Reference: GL 3454'+KB 26' @ 3480.00usft (Cactus 126)
MD Reference: GL 3454'+KB 26' @ 3480.00usft (Cactus 126)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

| 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) |
|-----------|---------|-------------------|------------|---------------|------------|------------|-------------------------|---------------------|-----------------|----------------|
| 5,095.00 | 2.60 | 302.30 | 5,090.58 | -81.43 | 80.62 | -127.97 | 151.25 | 302.21 | 488,082.50 | 725,897.95 |
| 5,189.00 | 2.30 | 294.50 | 5,184.49 | -83.37 | 82.54 | -131.49 | 155.25 | 302.12 | 488,084.42 | 725,894.43 |
| 5,283.00 | 1.90 | 291.60 | 5,278.43 | -84.75 | 83.90 | -134.65 | 158.65 | 301.93 | 488,085.78 | 725,891.27 |
| 5,377.00 | 1.80 | 284.70 | 5,372.38 | -85.71 | 84.85 | -137.53 | 161.60 | 301.67 | 488,086.73 | 725,888.39 |
| 5,471.00 | 1.80 | 281.40 | 5,466.33 | -86.40 | 85.52 | -140.41 | 164.40 | 301.34 | 488,087.40 | 725,885.51 |
| 5,565.00 | 1.50 | 288.30 | 5,560.29 | -87.09 | 86.19 | -143.02 | 166.99 | 301.08 | 488,088.07 | 725,882.90 |
| 5,659.00 | 1.50 | 284.10 | 5,654.26 | -87.79 | 86.88 | -145.38 | 169.36 | 300.86 | 488,088.76 | 725,880.54 |
| 5,754.00 | 1.20 | 287.40 | 5,749.23 | -88.41 | 87.48 | -147.54 | 171.52 | 300.67 | 488,089.36 | 725,878.38 |
| 5,848.00 | 1.00 | 293.50 | 5,843.22 | -89.04 | 88.10 | -149.23 | 173.30 | 300.56 | 488,089.98 | 725,876.69 |
| 5,963.00 | 0.70 | 311.00 | 5,958.20 | -89.91 | 88.96 | -150.68 | 174.98 | 300.56 | 488,090.84 | 725,875.24 |
| 6,044.00 | 0.60 | 325.40 | 6,039.20 | -90.59 | 89.64 | -151.29 | 175.85 | 300.65 | 488,091.52 | 725,874.63 |
| 6,138.00 | 0.70 | 318.50 | 6,133.19 | -91.42 | 90.47 | -151.95 | 176.85 | 300.77 | 488,092.35 | 725,873.97 |
| 6,232.00 | 0.70 | 332.30 | 6,227.19 | -92.37 | 91.41 | -152.60 | 177.88 | 300.92 | 488,093.29 | 725,873.32 |
| 6,326.00 | 0.70 | 315.30 | 6,321.18 | -93.29 | 92.33 | -153.27 | 178.93 | 301.06 | 488,094.21 | 725,872.65 |
| 6,421.00 | 0.70 | 322.30 | 6,416.17 | -94.16 | 93.20 | -154.04 | 180.04 | 301.18 | 488,095.08 | 725,871.88 |
| 6,514.00 | 0.70 | 328.40 | 6,509.17 | -95.10 | 94.13 | -154.68 | 181.07 | 301.32 | 488,096.01 | 725,871.24 |
| 6,609.00 | 0.60 | 337.60 | 6,604.16 | -96.06 | 95.09 | -155.17 | 181.99 | 301.50 | 488,096.97 | 725,870.75 |
| 6,703.00 | 0.30 | 356.40 | 6,698.16 | -96.76 | 95.79 | -155.38 | 182.53 | 301.65 | 488,097.67 | 725,870.54 |
| 6,797.00 | 0.40 | 322.80 | 6,792.15 | -97.27 | 96.29 | -155.59 | 182.98 | 301.75 | 488,098.17 | 725,870.33 |
| 6,891.00 | 0.50 | 321.80 | 6,886.15 | -97.86 | 96.88 | -156.04 | 183.67 | 301.83 | 488,098.76 | 725,869.88 |
| 6,985.00 | 0.70 | 336.50 | 6,980.15 | -98.71 | 97.73 | -156.53 | 184.53 | 301.98 | 488,099.61 | 725,869.39 |
| 7,079.00 | 0.70 | 324.90 | 7,074.14 | -99.71 | 98.72 | -157.08 | 185.53 | 302.15 | 488,100.60 | 725,868.84 |
| 7,173.00 | 0.60 | 315.40 | 7,168.13 | -100.53 | 99.54 | -157.76 | 186.54 | 302.25 | 488,101.42 | 725,868.16 |
| 7,267.00 | 0.70 | 311.30 | 7,262.13 | -101.27 | 100.27 | -158.54 | 187.59 | 302.31 | 488,102.15 | 725,867.38 |
| 7,361.00 | 0.60 | 317.90 | 7,356.12 | -102.01 | 101.02 | -159.30 | 188.63 | 302.38 | 488,102.90 | 725,866.62 |
| 7,456.00 | 0.70 | 315.50 | 7,451.12 | -102.80 | 101.80 | -160.04 | 189.67 | 302.46 | 488,103.68 | 725,865.88 |
| 7,549.00 | 0.50 | 294.90 | 7,544.11 | -103.38 | 102.37 | -160.80 | 190.63 | 302.48 | 488,104.25 | 725,865.12 |



ProDirectional
Survey Report



Company: Devon Energy Corp.
Project: Eddy County, NM (NAD83)
Site: Tomb Raider 1-12 Fed
Well: 512H
Wellbore: OH
Design: Surveys 171-18965 MD

Local Co-ordinate Reference: Well 512H
TVD Reference: GL 3454'+KB 26' @ 3480.00usft (Cactus 126)
MD Reference: GL 3454'+KB 26' @ 3480.00usft (Cactus 126)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

| Survey | | | | | | | | | | | |
|---------------------------|------------|----------------------|---------------|------------------|---------------|---------------|----------------------------|------------------------|--------------------|-------------------|--|
| MD (usft) | Inc (°) | Azl (azimuth) (°) | TVD (usft) | V. Sec (usft) | N/S (usft) | E/W (usft) | Closure Distance (usft) | Closure Azimuth (°) | Northing (usft) | Easting (usft) | |
| 7,643.00 | 0.50 | 304.70 | 7,638.11 | -103.79 | 102.78 | -161.51 | 191.44 | 302.47 | 488,104.66 | 725,864.41 | |
| 7,737.00 | 0.40 | 293.60 | 7,732.10 | -104.16 | 103.15 | -162.15 | 192.18 | 302.46 | 488,105.03 | 725,863.77 | |
| 7,831.00 | 0.50 | 269.40 | 7,826.10 | -104.29 | 103.27 | -162.86 | 192.85 | 302.38 | 488,105.15 | 725,863.06 | |
| 7,925.00 | 0.80 | 261.20 | 7,920.10 | -104.20 | 103.17 | -163.92 | 193.69 | 302.19 | 488,105.05 | 725,862.00 | |
| 8,019.00 | 0.80 | 263.90 | 8,014.09 | -104.03 | 103.00 | -165.22 | 194.70 | 301.94 | 488,104.88 | 725,860.70 | |
| 8,113.00 | 1.10 | 260.80 | 8,108.07 | -103.83 | 102.78 | -166.77 | 195.90 | 301.65 | 488,104.66 | 725,859.15 | |
| 8,207.00 | 1.00 | 258.50 | 8,202.06 | -103.53 | 102.48 | -168.46 | 197.18 | 301.31 | 488,104.36 | 725,857.46 | |
| 8,302.00 | 1.20 | 251.80 | 8,297.04 | -103.07 | 102.00 | -170.22 | 198.44 | 300.93 | 488,103.88 | 725,855.70 | |
| 8,364.00 | 1.10 | 254.30 | 8,359.03 | -102.71 | 101.64 | -171.41 | 199.27 | 300.67 | 488,103.52 | 725,854.51 | |
| 8,396.00 | 1.00 | 253.10 | 8,391.02 | -102.55 | 101.47 | -171.97 | 199.68 | 300.54 | 488,103.35 | 725,853.95 | |
| 8,490.00 | 9.40 | 172.00 | 8,484.59 | -94.69 | 93.61 | -171.69 | 195.55 | 298.60 | 488,095.49 | 725,854.23 | |
| 8,584.00 | 20.90 | 170.90 | 8,575.17 | -70.43 | 69.38 | -167.95 | 181.72 | 292.44 | 488,071.26 | 725,857.97 | |
| 8,678.00 | 31.60 | 175.20 | 8,659.36 | -29.18 | 28.16 | -163.23 | 165.64 | 279.79 | 488,030.04 | 725,862.69 | |
| 8,772.00 | 42.50 | 180.50 | 8,734.29 | 27.31 | -28.32 | -161.44 | 163.90 | 260.05 | 487,973.56 | 725,864.48 | |
| 8,866.00 | 52.40 | 181.30 | 8,797.78 | 96.45 | -97.47 | -162.56 | 189.55 | 239.05 | 487,904.41 | 725,863.36 | |
| 8,907.00 | 57.50 | 182.05 | 8,821.31 | 129.98 | -131.01 | -163.55 | 209.55 | 231.30 | 487,870.87 | 725,862.37 | |
| 330' FNL: 8907' MD | | | | | | | | | | | |
| 8,960.00 | 64.10 | 182.90 | 8,847.16 | 176.16 | -177.21 | -165.56 | 242.51 | 223.05 | 487,824.67 | 725,860.36 | |
| 9,054.00 | 75.30 | 183.40 | 8,879.72 | 264.02 | -265.09 | -170.41 | 315.14 | 212.73 | 487,736.79 | 725,855.51 | |
| 9,104.00 | 82.40 | 181.10 | 8,889.38 | 312.99 | -314.08 | -172.32 | 358.24 | 208.75 | 487,687.80 | 725,853.60 | |
| 9,199.00 | 85.20 | 179.10 | 8,899.64 | 407.42 | -408.51 | -172.48 | 443.43 | 202.89 | 487,593.37 | 725,853.44 | |
| 9,293.00 | 85.20 | 178.90 | 8,907.51 | 501.08 | -502.16 | -170.84 | 530.43 | 198.79 | 487,499.72 | 725,855.08 | |
| 9,387.00 | 87.60 | 179.00 | 8,913.41 | 594.88 | -595.96 | -169.13 | 619.49 | 195.84 | 487,405.92 | 725,856.79 | |
| 9,481.00 | 90.00 | 178.90 | 8,915.38 | 688.85 | -689.91 | -167.40 | 709.93 | 193.64 | 487,311.97 | 725,858.52 | |
| 9,575.00 | 90.40 | 178.80 | 8,915.05 | 782.84 | -783.89 | -165.52 | 801.18 | 191.92 | 487,217.99 | 725,860.40 | |
| 9,669.00 | 90.40 | 178.60 | 8,914.39 | 876.82 | -877.87 | -163.38 | 892.94 | 190.54 | 487,124.01 | 725,862.54 | |
| 9,763.00 | 90.50 | 179.20 | 8,913.65 | 970.81 | -971.85 | -161.58 | 985.19 | 189.44 | 487,030.03 | 725,864.34 | |



ProDirectional
Survey Report



Company: Devon Energy Corp.
Project: Eddy County, NM (NAD83)
Site: Tomb Raider 1-12 Fed
Well: 512H
Wellbore: OH
Design: Surveys 171-18965 MD

Local Co-ordinate Reference: Well 512H
TVD Reference: GL 3454'+KB 26' @ 3480.00usft (Cactus 126)
MD Reference: GL 3454'+KB 26' @ 3480.00usft (Cactus 126)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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) | |
| 9,858.00 | 90.60 | 179.70 | 8,912.74 | 1,065.81 | -1,066.84 | -160.67 | 1,078.87 | 188.56 | 486,935.04 | 725,865.25 | |
| 9,952.00 | 91.50 | 180.80 | 8,911.02 | 1,159.78 | -1,160.82 | -161.08 | 1,171.94 | 187.90 | 486,841.06 | 725,864.84 | |
| 10,046.00 | 91.40 | 181.50 | 8,908.64 | 1,253.72 | -1,254.77 | -162.96 | 1,265.31 | 187.40 | 486,747.11 | 725,862.96 | |
| 10,140.00 | 91.50 | 181.70 | 8,906.26 | 1,347.63 | -1,348.70 | -165.59 | 1,358.83 | 187.00 | 486,653.18 | 725,860.33 | |
| 10,234.00 | 90.90 | 181.30 | 8,904.29 | 1,441.56 | -1,442.65 | -168.05 | 1,452.40 | 186.64 | 486,559.23 | 725,857.87 | |
| 10,328.00 | 90.40 | 179.90 | 8,903.23 | 1,535.54 | -1,536.63 | -169.03 | 1,545.90 | 186.28 | 486,465.25 | 725,856.89 | |
| 10,422.00 | 89.50 | 179.10 | 8,903.31 | 1,629.54 | -1,630.63 | -168.21 | 1,639.28 | 185.89 | 486,371.25 | 725,857.71 | |
| 10,516.00 | 89.50 | 179.60 | 8,904.13 | 1,723.54 | -1,724.62 | -167.15 | 1,732.70 | 185.54 | 486,277.26 | 725,858.77 | |
| 10,609.00 | 88.90 | 178.70 | 8,905.43 | 1,816.52 | -1,817.60 | -165.77 | 1,825.14 | 185.21 | 486,184.28 | 725,860.15 | |
| 10,700.00 | 88.50 | 176.90 | 8,907.49 | 1,907.45 | -1,908.50 | -162.27 | 1,915.39 | 184.86 | 486,093.38 | 725,863.65 | |
| 10,792.00 | 88.30 | 177.30 | 8,910.06 | 1,999.32 | -2,000.35 | -157.62 | 2,006.55 | 184.51 | 486,001.53 | 725,868.30 | |
| 10,884.00 | 87.60 | 177.40 | 8,913.35 | 2,091.19 | -2,092.19 | -153.37 | 2,097.81 | 184.19 | 485,909.69 | 725,872.55 | |
| 10,976.00 | 89.10 | 177.40 | 8,916.00 | 2,183.08 | -2,184.06 | -149.20 | 2,189.15 | 183.91 | 485,817.82 | 725,876.72 | |
| 11,067.00 | 90.20 | 177.70 | 8,916.56 | 2,274.01 | -2,274.97 | -145.31 | 2,279.61 | 183.65 | 485,726.91 | 725,880.61 | |
| 11,159.00 | 90.50 | 177.40 | 8,916.00 | 2,365.95 | -2,366.88 | -141.38 | 2,371.10 | 183.42 | 485,635.00 | 725,884.54 | |
| 11,252.00 | 90.80 | 177.90 | 8,914.94 | 2,458.89 | -2,459.80 | -137.56 | 2,463.64 | 183.20 | 485,542.08 | 725,888.36 | |
| 11,344.00 | 90.60 | 178.90 | 8,913.82 | 2,550.86 | -2,551.76 | -134.99 | 2,555.32 | 183.03 | 485,450.12 | 725,890.93 | |
| 11,435.00 | 90.80 | 179.10 | 8,912.71 | 2,641.85 | -2,642.74 | -133.41 | 2,646.10 | 182.89 | 485,359.14 | 725,892.51 | |
| 11,527.00 | 90.30 | 178.50 | 8,911.82 | 2,733.83 | -2,734.71 | -131.48 | 2,737.87 | 182.75 | 485,267.17 | 725,894.44 | |
| 11,620.00 | 89.00 | 178.40 | 8,912.39 | 2,826.81 | -2,827.67 | -128.96 | 2,830.61 | 182.61 | 485,174.21 | 725,896.96 | |
| 11,713.00 | 88.50 | 178.90 | 8,914.42 | 2,919.77 | -2,920.62 | -126.77 | 2,923.37 | 182.49 | 485,081.26 | 725,899.15 | |
| 11,806.00 | 89.60 | 179.40 | 8,915.96 | 3,012.75 | -3,013.60 | -125.39 | 3,016.21 | 182.38 | 484,988.28 | 725,900.53 | |
| 11,899.00 | 89.80 | 179.70 | 8,916.45 | 3,105.75 | -3,106.59 | -124.66 | 3,109.10 | 182.30 | 484,895.29 | 725,901.26 | |
| 11,993.00 | 89.30 | 179.10 | 8,917.19 | 3,199.75 | -3,200.59 | -123.68 | 3,202.97 | 182.21 | 484,801.29 | 725,902.24 | |
| 12,088.00 | 89.90 | 179.20 | 8,917.85 | 3,294.74 | -3,295.57 | -122.27 | 3,297.84 | 182.12 | 484,706.31 | 725,903.65 | |
| 12,181.00 | 89.70 | 179.10 | 8,918.17 | 3,387.74 | -3,388.56 | -120.89 | 3,390.72 | 182.04 | 484,613.32 | 725,905.03 | |
| 12,275.00 | 89.40 | 179.10 | 8,918.91 | 3,481.73 | -3,482.55 | -119.41 | 3,484.59 | 181.96 | 484,519.33 | 725,906.51 | |



ProDirectional Survey Report



Company: Devon Energy Corp.
Project: Eddy County, NM (NAD83)
Site: Tomb Raider 1-12 Fed
Well: 512H
Wellbore: OH
Design: Surveys 171-18965 MD

Local Co-ordinate Reference: Well 512H
TVD Reference: GL 3454'+KB 26' @ 3480.00usft (Cactus 126)
MD Reference: GL 3454'+KB 26' @ 3480.00usft (Cactus 126)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Survey

| MD (usft) | Inc (°) | Azl (azimuth) (°) | TVD (usft) | V. Sec (usft) | N/S (usft) | E/W (usft) | Closure Distance (usft) | Closure Azimuth (°) | Northing (usft) | Easting (usft) |
|--------------|------------|----------------------|---------------|------------------|---------------|---------------|----------------------------|------------------------|--------------------|-------------------|
| 12,370.00 | 88.70 | 178.40 | 8,920.49 | 3,576.70 | -3,577.51 | -117.34 | 3,579.43 | 181.88 | 484,424.37 | 725,908.58 |
| 12,464.00 | 89.55 | 179.20 | 8,921.92 | 3,670.68 | -3,671.48 | -115.37 | 3,673.29 | 181.80 | 484,330.40 | 725,910.55 |
| 12,558.00 | 90.60 | 180.80 | 8,921.80 | 3,764.67 | -3,765.47 | -115.37 | 3,767.24 | 181.75 | 484,236.41 | 725,910.55 |
| 12,652.00 | 90.50 | 181.20 | 8,920.90 | 3,858.64 | -3,859.45 | -117.01 | 3,861.23 | 181.74 | 484,142.43 | 725,908.91 |
| 12,746.00 | 91.20 | 182.00 | 8,919.50 | 3,952.58 | -3,953.41 | -119.64 | 3,955.22 | 181.73 | 484,048.47 | 725,906.28 |
| 12,840.00 | 91.10 | 182.10 | 8,917.62 | 4,046.47 | -4,047.33 | -123.00 | 4,049.20 | 181.74 | 483,954.55 | 725,902.92 |
| 12,934.00 | 90.90 | 181.60 | 8,915.98 | 4,140.39 | -4,141.26 | -126.04 | 4,143.18 | 181.74 | 483,860.62 | 725,899.88 |
| 13,029.00 | 91.00 | 182.00 | 8,914.40 | 4,235.31 | -4,236.20 | -129.02 | 4,238.17 | 181.74 | 483,765.68 | 725,896.90 |
| 13,123.00 | 90.90 | 181.90 | 8,912.84 | 4,329.22 | -4,330.14 | -132.22 | 4,332.15 | 181.75 | 483,671.74 | 725,893.70 |
| 13,217.00 | 89.60 | 181.90 | 8,912.43 | 4,423.14 | -4,424.08 | -135.33 | 4,426.15 | 181.75 | 483,577.80 | 725,890.59 |
| 13,311.00 | 88.80 | 183.30 | 8,913.74 | 4,517.01 | -4,517.97 | -139.60 | 4,520.13 | 181.77 | 483,483.91 | 725,886.32 |
| 13,404.00 | 89.20 | 182.80 | 8,915.37 | 4,609.83 | -4,610.83 | -144.54 | 4,613.09 | 181.80 | 483,391.05 | 725,881.38 |
| 13,499.00 | 88.60 | 181.90 | 8,917.19 | 4,704.70 | -4,705.73 | -148.44 | 4,708.07 | 181.81 | 483,296.15 | 725,877.48 |
| 13,593.00 | 88.70 | 181.40 | 8,919.41 | 4,798.62 | -4,799.66 | -151.14 | 4,802.04 | 181.80 | 483,202.22 | 725,874.78 |
| 13,687.00 | 88.50 | 179.90 | 8,921.70 | 4,892.57 | -4,893.62 | -152.21 | 4,895.99 | 181.78 | 483,108.26 | 725,873.71 |
| 13,781.00 | 88.80 | 178.90 | 8,923.92 | 4,986.54 | -4,987.59 | -151.23 | 4,989.88 | 181.74 | 483,014.29 | 725,874.69 |
| 13,875.00 | 88.60 | 178.40 | 8,926.05 | 5,080.50 | -5,081.54 | -149.01 | 5,083.73 | 181.68 | 482,920.34 | 725,876.91 |
| 13,969.00 | 89.50 | 177.50 | 8,927.61 | 5,174.45 | -5,175.47 | -145.65 | 5,177.52 | 181.61 | 482,826.41 | 725,880.27 |
| 14,063.00 | 90.40 | 178.20 | 8,927.69 | 5,268.40 | -5,269.40 | -142.12 | 5,271.31 | 181.54 | 482,732.48 | 725,883.80 |
| 14,157.00 | 89.90 | 178.30 | 8,927.44 | 5,362.37 | -5,363.35 | -139.25 | 5,365.16 | 181.49 | 482,638.53 | 725,886.67 |
| 14,251.00 | 90.60 | 178.40 | 8,927.03 | 5,456.35 | -5,457.31 | -136.55 | 5,459.02 | 181.43 | 482,544.57 | 725,889.37 |
| 14,345.00 | 90.60 | 178.70 | 8,926.05 | 5,550.33 | -5,551.28 | -134.17 | 5,552.90 | 181.38 | 482,450.60 | 725,891.75 |
| 14,439.00 | 90.10 | 178.80 | 8,925.48 | 5,644.31 | -5,645.25 | -132.12 | 5,646.80 | 181.34 | 482,356.63 | 725,893.80 |
| 14,533.00 | 89.30 | 178.00 | 8,925.97 | 5,738.29 | -5,739.21 | -129.49 | 5,740.68 | 181.29 | 482,262.67 | 725,896.43 |
| 14,627.00 | 89.00 | 179.10 | 8,927.36 | 5,832.26 | -5,833.17 | -127.12 | 5,834.56 | 181.25 | 482,168.71 | 725,898.80 |
| 14,721.00 | 90.10 | 179.10 | 8,928.10 | 5,926.25 | -5,927.16 | -125.64 | 5,928.49 | 181.21 | 482,074.72 | 725,900.28 |
| 14,815.00 | 89.40 | 178.80 | 8,928.51 | 6,020.24 | -6,021.14 | -123.92 | 6,022.41 | 181.18 | 481,980.74 | 725,902.00 |



ProDirectional
Survey Report



Company: Devon Energy Corp.
Project: Eddy County, NM (NAD83)
Site: Tomb Raider 1-12 Fed
Well: 512H
Wellbore: OH
Design: Surveys 171-18965 MD

Local Co-ordinate Reference: Well 512H
TVD Reference: GL 3454'+KB 26' @ 3480.00usft (Cactus 126)
MD Reference: GL 3454'+KB 26' @ 3480.00usft (Cactus 126)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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) | |
| 14,909.00 | 89.20 | 179.40 | 8,929.66 | 6,114.23 | -6,115.12 | -122.44 | 6,116.35 | 181.15 | 481,886.76 | 725,903.48 | |
| 15,003.00 | 89.20 | 179.50 | 8,930.97 | 6,208.22 | -6,209.11 | -121.54 | 6,210.30 | 181.12 | 481,792.77 | 725,904.38 | |
| 15,097.00 | 90.60 | 179.30 | 8,931.14 | 6,302.22 | -6,303.10 | -120.55 | 6,304.25 | 181.10 | 481,698.78 | 725,905.37 | |
| 15,191.00 | 91.90 | 179.60 | 8,929.09 | 6,396.19 | -6,397.07 | -119.65 | 6,398.19 | 181.07 | 481,604.81 | 725,906.27 | |
| 15,286.00 | 91.70 | 179.90 | 8,926.10 | 6,491.14 | -6,492.02 | -119.24 | 6,493.12 | 181.05 | 481,509.86 | 725,906.68 | |
| 15,380.00 | 91.40 | 179.90 | 8,923.56 | 6,585.11 | -6,585.99 | -119.07 | 6,587.06 | 181.04 | 481,415.89 | 725,906.85 | |
| 15,474.00 | 90.80 | 179.40 | 8,921.75 | 6,679.09 | -6,679.97 | -118.50 | 6,681.02 | 181.02 | 481,321.91 | 725,907.42 | |
| 15,567.00 | 90.60 | 179.40 | 8,920.62 | 6,772.08 | -6,772.96 | -117.52 | 6,773.98 | 180.99 | 481,228.92 | 725,908.40 | |
| 15,662.00 | 89.90 | 179.20 | 8,920.20 | 6,867.08 | -6,867.95 | -116.36 | 6,868.93 | 180.97 | 481,133.93 | 725,909.56 | |
| 15,756.00 | 90.20 | 179.10 | 8,920.12 | 6,961.08 | -6,961.94 | -114.97 | 6,962.89 | 180.95 | 481,039.94 | 725,910.95 | |
| 15,850.00 | 89.60 | 178.30 | 8,920.29 | 7,055.06 | -7,055.91 | -112.84 | 7,056.81 | 180.92 | 480,945.97 | 725,913.08 | |
| 15,944.00 | 90.20 | 177.60 | 8,920.45 | 7,149.02 | -7,149.85 | -109.47 | 7,150.69 | 180.88 | 480,852.03 | 725,916.45 | |
| 16,038.00 | 89.70 | 177.00 | 8,920.53 | 7,242.94 | -7,243.74 | -105.05 | 7,244.51 | 180.83 | 480,758.14 | 725,920.87 | |
| 16,132.00 | 89.70 | 178.40 | 8,921.02 | 7,336.88 | -7,337.67 | -101.27 | 7,338.36 | 180.79 | 480,664.21 | 725,924.65 | |
| 16,226.00 | 89.70 | 179.80 | 8,921.52 | 7,430.88 | -7,431.65 | -99.80 | 7,432.32 | 180.77 | 480,570.23 | 725,926.12 | |
| 16,320.00 | 89.40 | 179.70 | 8,922.25 | 7,524.87 | -7,525.65 | -99.39 | 7,526.30 | 180.76 | 480,476.23 | 725,926.53 | |
| 16,414.00 | 90.20 | 180.20 | 8,922.58 | 7,618.87 | -7,619.64 | -99.31 | 7,620.29 | 180.75 | 480,382.24 | 725,926.61 | |
| 16,508.00 | 90.10 | 179.80 | 8,922.34 | 7,712.87 | -7,713.64 | -99.31 | 7,714.28 | 180.74 | 480,288.24 | 725,926.61 | |
| 16,602.00 | 90.70 | 179.90 | 8,921.68 | 7,806.86 | -7,807.64 | -99.06 | 7,808.27 | 180.73 | 480,194.24 | 725,926.86 | |
| 16,696.00 | 91.00 | 179.20 | 8,920.29 | 7,900.85 | -7,901.63 | -98.32 | 7,902.24 | 180.71 | 480,100.25 | 725,927.60 | |
| 16,790.00 | 89.80 | 180.60 | 8,919.63 | 7,994.85 | -7,995.62 | -98.16 | 7,996.22 | 180.70 | 480,006.26 | 725,927.76 | |
| 16,884.00 | 88.80 | 179.90 | 8,920.78 | 8,088.83 | -8,089.61 | -98.57 | 8,090.21 | 180.70 | 479,912.27 | 725,927.35 | |
| 16,978.00 | 89.30 | 181.00 | 8,922.34 | 8,182.81 | -8,183.59 | -99.31 | 8,184.20 | 180.70 | 479,818.29 | 725,926.61 | |
| 17,073.00 | 89.60 | 181.10 | 8,923.25 | 8,277.77 | -8,278.57 | -101.05 | 8,279.19 | 180.70 | 479,723.31 | 725,924.87 | |
| 17,167.00 | 88.80 | 181.00 | 8,924.56 | 8,371.74 | -8,372.55 | -102.77 | 8,373.18 | 180.70 | 479,629.33 | 725,923.15 | |
| 17,261.00 | 91.00 | 180.90 | 8,924.72 | 8,465.71 | -8,466.53 | -104.33 | 8,467.17 | 180.71 | 479,535.35 | 725,921.59 | |
| 17,355.00 | 90.90 | 180.50 | 8,923.17 | 8,559.68 | -8,560.51 | -105.48 | 8,561.16 | 180.71 | 479,441.37 | 725,920.44 | |



ProDirectional Survey Report



Company: Devon Energy Corp.
Project: Eddy County, NM (NAD83)
Site: Tomb Raider 1-12 Fed
Well: 512H
Wellbore: OH
Design: Surveys 171-18965 MD

Local Co-ordinate Reference: Well 512H
TVD Reference: GL 3454'+KB 26' @ 3480.00usft (Cactus 126)
MD Reference: GL 3454'+KB 26' @ 3480.00usft (Cactus 126)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

| 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) |
|--------------------------------|---------|-------------------|------------|---------------|------------|------------|-------------------------|---------------------|-----------------|----------------|
| 17,449.00 | 90.60 | 179.60 | 8,921.94 | 8,653.66 | -8,654.50 | -105.56 | 8,655.14 | 180.70 | 479,347.38 | 725,920.36 |
| 17,543.00 | 90.30 | 179.60 | 8,921.20 | 8,747.66 | -8,748.49 | -104.90 | 8,749.12 | 180.69 | 479,253.39 | 725,921.02 |
| 17,637.00 | 89.30 | 178.80 | 8,921.53 | 8,841.66 | -8,842.48 | -103.59 | 8,843.09 | 180.67 | 479,159.40 | 725,922.33 |
| 17,731.00 | 89.90 | 180.20 | 8,922.18 | 8,935.65 | -8,936.47 | -102.77 | 8,937.06 | 180.66 | 479,065.41 | 725,923.15 |
| 17,825.00 | 88.90 | 180.30 | 8,923.17 | 9,029.64 | -9,030.47 | -103.18 | 9,031.06 | 180.65 | 478,971.41 | 725,922.74 |
| 17,919.00 | 89.80 | 180.10 | 8,924.23 | 9,123.63 | -9,124.46 | -103.51 | 9,125.05 | 180.65 | 478,877.42 | 725,922.41 |
| 18,013.00 | 90.70 | 181.00 | 8,923.82 | 9,217.61 | -9,218.45 | -104.41 | 9,219.04 | 180.65 | 478,783.43 | 725,921.51 |
| 18,107.00 | 90.20 | 180.40 | 8,923.08 | 9,311.59 | -9,312.44 | -105.56 | 9,313.04 | 180.65 | 478,689.44 | 725,920.36 |
| 18,201.00 | 89.50 | 180.20 | 8,923.33 | 9,405.59 | -9,406.44 | -106.05 | 9,407.04 | 180.65 | 478,595.44 | 725,919.87 |
| 18,295.00 | 89.80 | 179.90 | 8,923.90 | 9,499.58 | -9,500.44 | -106.13 | 9,501.03 | 180.64 | 478,501.44 | 725,919.79 |
| 18,389.00 | 90.30 | 179.90 | 8,923.82 | 9,593.58 | -9,594.44 | -105.97 | 9,595.02 | 180.63 | 478,407.44 | 725,919.95 |
| 18,483.00 | 89.60 | 179.90 | 8,923.90 | 9,687.58 | -9,688.43 | -105.80 | 9,689.01 | 180.63 | 478,313.45 | 725,920.12 |
| 18,577.00 | 88.50 | 179.10 | 8,925.46 | 9,781.56 | -9,782.42 | -104.98 | 9,782.98 | 180.61 | 478,219.46 | 725,920.94 |
| 18,671.00 | 90.60 | 180.30 | 8,926.20 | 9,875.55 | -9,876.41 | -104.49 | 9,876.96 | 180.61 | 478,125.47 | 725,921.43 |
| 18,765.00 | 90.90 | 179.50 | 8,924.97 | 9,969.54 | -9,970.40 | -104.33 | 9,970.94 | 180.60 | 478,031.48 | 725,921.59 |
| 18,823.00 | 91.02 | 179.38 | 8,924.00 | 10,027.54 | -10,028.39 | -103.76 | 10,028.92 | 180.59 | 477,973.49 | 725,922.16 |
| 330' FSL: 18823' MD | | | | | | | | | | |
| 18,859.00 | 91.10 | 179.30 | 8,923.33 | 10,063.53 | -10,064.38 | -103.34 | 10,064.91 | 180.59 | 477,937.50 | 725,922.58 |
| 18,907.00 | 91.00 | 179.20 | 8,922.45 | 10,111.52 | -10,112.36 | -102.72 | 10,112.89 | 180.58 | 477,889.52 | 725,923.20 |
| Final Survey: 18907' MD | | | | | | | | | | |
| 18,965.00 | 91.00 | 179.20 | 8,921.44 | 10,169.51 | -10,170.35 | -101.91 | 10,170.86 | 180.57 | 477,831.53 | 725,924.01 |
| Final TD: 18965' MD | | | | | | | | | | |



ProDirectional
Survey Report



Company: Devon Energy Corp.
Project: Eddy County, NM (NAD83)
Site: Tomb Raider 1-12 Fed
Well: 512H
Wellbore: OH
Design: Surveys 171-18965 MD

Local Co-ordinate Reference: Well 512H
TVD Reference: GL 3454'+KB 26' @ 3480.00usft (Cactus 126)
MD Reference: GL 3454'+KB 26' @ 3480.00usft (Cactus 126)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Design Annotations

| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates | | Comment |
|-----------------------------|-----------------------------|-------------------|-----------------|-------------------------------|
| | | +N/-S (usft) | +E/-W (usft) | |
| 171.00 | 171.00 | -0.06 | 0.14 | Pro MWD First Survey: 171' MD |
| 8,907.00 | 8,821.31 | -131.01 | -163.55 | 330' FNL: 8907' MD |
| 18,823.00 | 8,924.00 | -10,028.39 | -103.76 | 330' FSL: 18823' MD |
| 18,907.00 | 8,922.45 | -10,112.36 | -102.72 | Final Survey: 18907' MD |
| 18,965.00 | 8,921.44 | -10,170.35 | -101.91 | Final TD: 18965' MD |