



METEORITE
energy services

Meteorite Energy Services Survey Report

24 March, 2024

PERMIAN South

Upton County
University 3-19
University 3-19 705H
OH

Survey: FINAL SURFACE SURVEYS (24MJ-080)

PIONEER
NATURAL RESOURCES



| | | | |
|------------------|----------------------------------|-------------------------------------|----------------------------|
| Company: | PERMIAN South | Local Co-ordinate Reference: | Well University 3-19 705H |
| Project: | Upton County | TVD Reference: | KB @ GL @ 2675.0usft |
| Site: | University 3-19 | MD Reference: | KB @ GL @ 2675.0usft |
| Well: | University 3-19 705H | North Reference: | Grid |
| Wellbore: | OH | Survey Calculation Method: | Minimum Curvature |
| Design: | FINAL SURFACE SURVEYS (24MJ-080) | Database: | EDM 5000.16 Single User Db |

| | | | |
|--------------------|--------------------------------------|----------------------|----------------|
| Project | Upton County | | |
| Map System: | US State Plane 1927 (Exact solution) | System Datum: | Mean Sea Level |
| Geo Datum: | NAD 1927 (NADCON CONUS) | | |
| Map Zone: | Texas Central 4203 | | |

| | | | | | |
|-----------------------|--|-----------------|--|-------------------|--|
| Site | | University 3-19 | | | |
| Site Position: | | Northing: | | 588,279.70 usft | |
| From: | | Easting: | | 1,549,206.70 usft | |
| Position Uncertainty: | | Slot Radius: | | Grid Convergence: | |
| Map | | 0.0 usft | | 13-3/16 " | |
| | | | | 31° 16' 34.228 N | |
| | | | | 101° 46' 34.946 W | |
| | | | | -0.74 ° | |

| Well | | University 3-19 705H | | | | |
|----------------------|-------|----------------------|---------------------|-------------------|---------------|-------------------|
| Well Position | +N/-S | 0.0 usft | Northing: | 588,280.20 usft | Latitude: | 31° 16' 34.244 N |
| | +E/-W | 0.0 usft | Easting: | 1,549,286.70 usft | Longitude: | 101° 46' 34.024 W |
| Position Uncertainty | | 0.0 usft | Wellhead Elevation: | usft | Ground Level: | 2,675.0 usft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | OH | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | User Defined | 3/21/2024 | 5.58 | 59.23 | 46,964.20000000 |

| | | | | |
|-------------------|----------------------------------|-----------------|-----------------|-------------------|
| Design | FINAL SURFACE SURVEYS (24MJ-080) | | | |
| Audit Notes: | | | | |
| Version: | 1.0 | Phase: | ACTUAL | Tie On Depth: 0.0 |
| Vertical Section: | Depth From (TVD) (usft) | +N/-S (usft) | +E/-W (usft) | Direction (°) |
| | -7.0 | 0.0 | 0.0 | 170.00 |

| | | | | | |
|-----------------------|------------------|------------------------------------|-------------------|--|--|
| Survey Program | Date | 3/24/2024 | | | |
| From (usft) | To (usft) | Survey (Wellbore) | Tool Name | Description | |
| 122.0 | 1,197.0 | FINAL SURFACE SURVEYS (24MJ-080) (| MWD+IFR1+MS (PXD) | OWSG MWD + IFR1 + Multi-Station Correction (PXD) | |

| Survey | | | | | | | | | | |
|-----------------------|-----------------|-------------|-----------------------|---------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | Subsea Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 0.0 | 0.00 | 0.00 | 0.0 | -2,675.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 122.0 | 0.30 | 161.10 | 122.0 | -2,553.0 | -0.3 | 0.1 | 0.3 | 0.25 | 0.25 | 0.00 |
| 209.0 | 0.40 | 264.90 | 209.0 | -2,466.0 | -0.5 | -0.1 | 0.5 | 0.64 | 0.11 | 119.31 |
| 296.0 | 0.50 | 220.20 | 296.0 | -2,379.0 | -0.9 | -0.7 | 0.7 | 0.41 | 0.11 | -51.38 |
| 381.0 | 0.60 | 167.70 | 381.0 | -2,294.0 | -1.6 | -0.8 | 1.4 | 0.58 | 0.12 | -61.76 |
| 475.0 | 0.80 | 159.90 | 475.0 | -2,200.0 | -2.7 | -0.5 | 2.6 | 0.24 | 0.21 | -8.30 |
| 567.0 | 1.10 | 158.50 | 567.0 | -2,108.0 | -4.1 | 0.1 | 4.0 | 0.33 | 0.33 | -1.52 |
| 662.0 | 1.00 | 161.10 | 662.0 | -2,013.0 | -5.7 | 0.7 | 5.8 | 0.12 | -0.11 | 2.74 |
| 756.0 | 1.40 | 156.00 | 755.9 | -1,919.1 | -7.6 | 1.4 | 7.7 | 0.44 | 0.43 | -5.43 |
| 850.0 | 1.60 | 164.80 | 849.9 | -1,825.1 | -9.9 | 2.2 | 10.1 | 0.32 | 0.21 | 9.36 |
| 944.0 | 1.80 | 168.00 | 943.9 | -1,731.1 | -12.6 | 2.9 | 12.9 | 0.24 | 0.21 | 3.40 |
| 1,038.0 | 1.70 | 164.00 | 1,037.8 | -1,637.2 | -15.4 | 3.5 | 15.8 | 0.17 | -0.11 | -4.26 |
| 1,127.0 | 1.80 | 164.80 | 1,126.8 | -1,548.2 | -18.0 | 4.3 | 18.5 | 0.12 | 0.11 | 0.90 |

| | | | |
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| Well: | University 3-19 705H | North Reference: | Grid |
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| Survey | | | | | | | | | | |
|-----------------------|-----------------|-------------|-----------------------|---------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | Subsea Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| EXTRAPOLATION TO BIT | | | | | | | | | | |
| 1,197.0 | 1.80 | 164.80 | 1,196.7 | -1,478.3 | -20.1 | 4.9 | 20.6 | 0.00 | 0.00 | 0.00 |

| Targets | | | | | | | | | | |
|---|---------------|--------------|------------|--------------|--------------|-----------------|----------------|------------------|-------------------|--|
| Target Name | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude | Longitude | |
| University 3-19 705H - F - hit/miss target - Shape - Point | 0.00 | 360.00 | -26.0 | -633.0 | 313.1 | 587,647.20 | 1,549,599.80 | 31° 16' 28.019 N | 101° 46' 30.322 W | - survey misses target center by 706.7usft at 0.0usft MD (0.0 TVD, 0.0 N, 0.0 E) |
| University 3-19 705H - L - survey misses target center by 13745.5usft at 8.1usft MD (8.1 TVD, 0.0 N, 0.0 E) - Point | 0.00 | 0.00 | -26.0 | -13,745.4 | 28.1 | 574,534.80 | 1,549,314.80 | 31° 14' 18.206 N | 101° 46' 31.647 W | |
| University 3-19 705H - P - survey misses target center by 412.5usft at 0.0usft MD (0.0 TVD, 0.0 N, 0.0 E) - Point | 0.00 | 0.00 | -26.0 | -258.1 | 320.7 | 588,022.10 | 1,549,607.40 | 31° 16' 31.730 N | 101° 46' 30.290 W | |

| Survey Annotations | | | | | |
|-----------------------|-----------------------|-------------------|--------------|----------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates | | | |
| | | +N/-S (usft) | +E/-W (usft) | Comment | |
| 1,197.0 | 1,196.7 | -20.1 | 4.9 | EXTRAPOLATION TO BIT | |

| | | |
|-------------------|--------------------|-------------|
| Checked By: _____ | Approved By: _____ | Date: _____ |
|-------------------|--------------------|-------------|