

PIONEER NATURAL RESOURCES

Spraberry (Reagan County, Texas)

Reagan County, Texas

University "10-13" #5H

VH - Job #32K0312325

Survey: Gyro

SDI Standard Survey Report





Scientific Drilling International, Inc.

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State of Texas
County of Midland

I, Chase Baron, certify that; I am employed by Scientific Drilling International; that I did on the day(s) of 03/21/12 through 03/21/12 conduct or supervise the taking of a Keeper Gyro survey from a depth of 0 feet to a depth of 492 feet; that the data is true, correct, complete and within the limitations of the tool as set forth by Scientific Drilling International; that I am authorized and qualified to make this report; that this survey was conducted at the request of Pioneer Natural Res. USA, INC. for the University '10-13' #5H Well, API# 42-383-37564 in Reagan County, Texas; and that I have reviewed this report and find that it conforms to the principals and procedures as set forth by Scientific Drilling International.


Field Technician

| | | | |
|------------------|----------------------------------|-------------------------------------|---------------------------------------|
| Company: | PIONEER NATURAL RESOURCES | Local Co-ordinate Reference: | Well University "10-13" #5H |
| Project: | Spraberry (Reagan County, Texas) | TVD Reference: | GL @ 2629.00usft (Original Well Elev) |
| Site: | Reagan County, Texas | MD Reference: | GL @ 2629.00usft (Original Well Elev) |
| Well: | University "10-13" #5H | North Reference: | Grid |
| Wellbore: | VH - Job #32K0312325 | Survey Calculation Method: | Minimum Curvature |
| Design: | VH - Job #32K0312325 | Database: | EDM-Regulatory |

| | | | |
|--------------------|--------------------------------------|----------------------|----------------|
| Project | Spraberry (Reagan County, Texas) | | |
| 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 | Reagan County, Texas | | |
| Site Position: | | Northing: | 577,152.78 usft |
| From: | Lat/Long | Easting: | 1,643,927.82 usft |
| Position Uncertainty: | 0.00 usft | Slot Radius: | 0" |
| | | Latitude: | 31° 14' 54.984 N |
| | | Longitude: | 101° 28' 22.152 W |
| | | Grid Convergence: | -0.59 ° |

| | | | |
|-----------------------------|--|----------------------------|-----------------------------------|
| Well | University "10-13" #5H, Directional (Leam) | | |
| Well Position | +N/-S | 0.00 usft | Northing: 588,820.48 usft |
| | +E/-W | 0.00 usft | Easting: 1,619,243.52 usft |
| Position Uncertainty | 0.00 usft | Wellhead Elevation: | usft |
| | | Latitude: | 31° 16' 47.875 N |
| | | Longitude: | 101° 33' 7.980 W |
| | | Ground Level: | 0.00 usft |

| | | | | | |
|------------------|----------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | VH - Job #32K0312325 | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2010 | 03/21/12 | 6.47 | 59.62 | 48,179 |

| | | | | | |
|--------------------------|--------------------------------|---------------------|---------------------|----------------------|------|
| Design | VH - Job #32K0312325 | | | | |
| Audit Notes: | | | | | |
| Version: | 1.0 | Phase: | ACTUAL | Tie On Depth: | 0.00 |
| Vertical Section: | Depth From (TVD) (usft) | +N/-S (usft) | +E/-W (usft) | Direction (°) | |
| | 0.00 | 0.00 | 0.00 | 329.35 | |

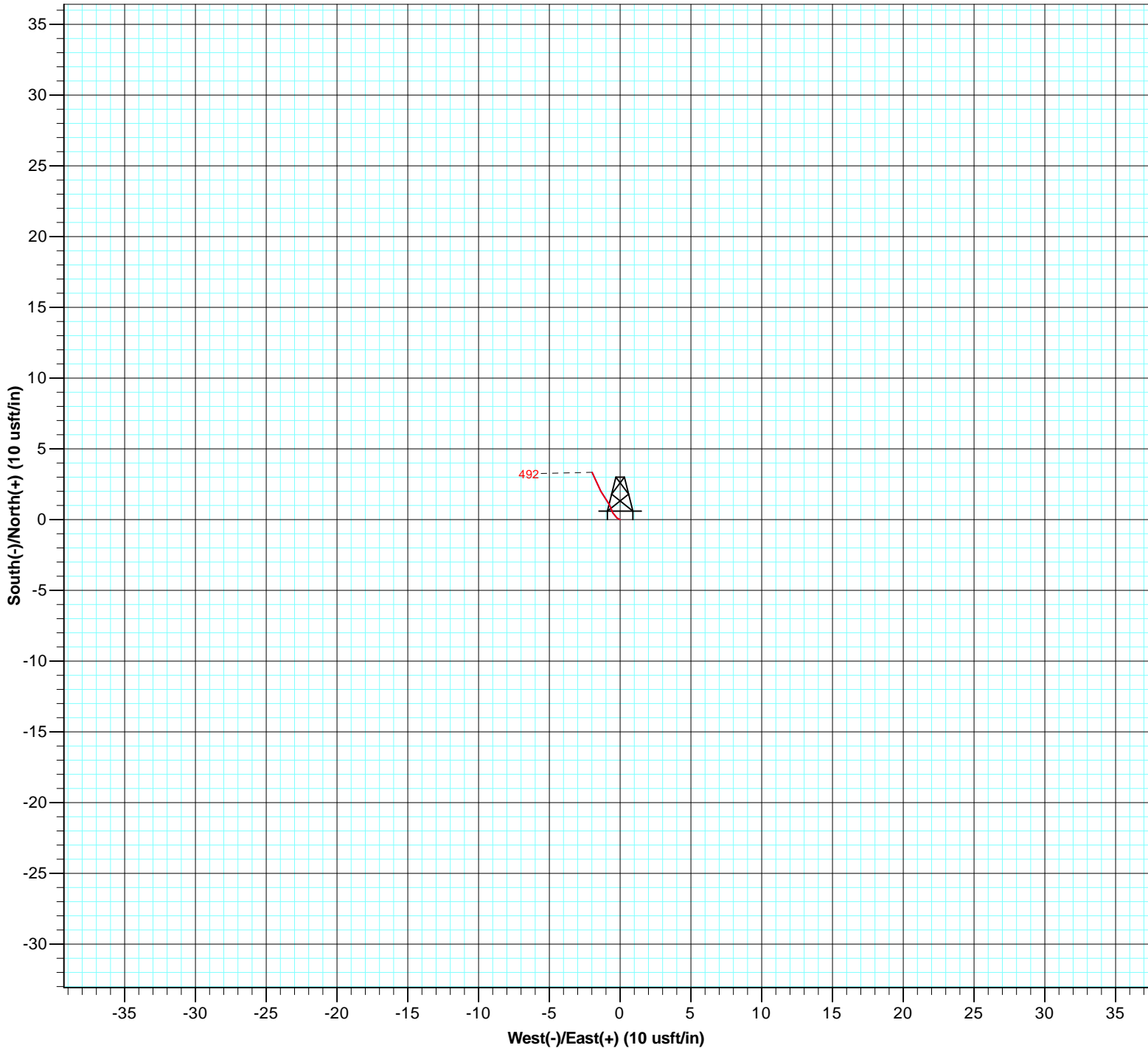
| | | | | | |
|-----------------------|------------------|-----------------------------|------------------|--------------------|--|
| Survey Program | Date | 04/23/12 | | | |
| From (usft) | To (usft) | Survey (Wellbore) | Tool Name | Description | |
| 100.00 | 492.00 | Gyro (VH - Job #32K0312325) | Keeper | Keeper Gyro | |

| | | | | | | | | |
|------------------------------|------------------------|--------------------|----------------------------|---------------------------|-------------------------|----------------------------|--------------------------------|------|
| Survey | | | | | | | | |
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | True Vertical Depth | North/South (usft) | East/West (usft) | Closure Azimuth (°) | Closure Distance (usft) | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 100.00 | 0.28 | 295.04 | 100.00 | 0.10 | -0.22 | 295.04 | 0.24 | |
| 200.00 | 0.32 | 343.63 | 200.00 | 0.47 | -0.52 | 312.32 | 0.71 | |
| 300.00 | 0.39 | 332.86 | 300.00 | 1.05 | -0.76 | 324.15 | 1.29 | |
| 400.00 | 0.92 | 325.08 | 399.99 | 2.01 | -1.37 | 325.67 | 2.43 | |
| 492.00 | 0.93 | 345.75 | 491.98 | 3.34 | -1.98 | 329.35 | 3.88 | |



WELL DETAILS: University "10-13" #5H

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|--------------|--------------|-----------------|----------------|----------------------|------------------|------------------|-------------|
| +N/-S | +E/-W | Northing | Easting | Ground Level: | Latitude | Longitude | Slot |
| 0.00 | 0.00 | 588820.48 | 1619243.52 | 0.00 | 31° 16' 47.875 N | 101° 33' 7.980 W | |



Project: Spraberry (Reagan County, Texas)
Site: Reagan County, Texas
Well: University "10-13" #5H
Wellbore: VH - Job #32K0312325
Design: VH - Job #32K0312325

SITE DETAILS: Reagan County, Texas
Site Centre Latitude: 31° 14' 54.984 N
Longitude: 101° 28' 22.152 W

Positional Uncertainty: 0.00
Convergence: -0.59
Local North: Grid

