

30-025-44491

PRIDE ENERGY COMPANY  
LEADING THE OIL AND GAS INDUSTRY

HOBBS OCD  
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## **Pride Energy Company**

Lea County, New Mexico (NAD 83)

Paduca "16" State

503H

Wellbore #1

Plan: Design #1

## **Standard Planning Report**

15 February, 2018

**MS** *Directional*

|                  |                                 |                                     |                    |
|------------------|---------------------------------|-------------------------------------|--------------------|
| <b>Database:</b> | Conroe Server                   | <b>Local Co-ordinate Reference:</b> | Well 503H          |
| <b>Company:</b>  | Pride Energy Company            | <b>TVD Reference:</b>               | WELL @ 3447.00usft |
| <b>Project:</b>  | Lea County, New Mexico (NAD 83) | <b>MD Reference:</b>                | WELL @ 3447.00usft |
| <b>Site:</b>     | Paduca "16" State               | <b>North Reference:</b>             | Grid               |
| <b>Well:</b>     | 503H                            | <b>Survey Calculation Method:</b>   | Minimum Curvature  |
| <b>Wellbore:</b> | Wellbore #1                     |                                     |                    |
| <b>Design:</b>   | Design #1                       |                                     |                    |

|                    |                                 |                      |                |
|--------------------|---------------------------------|----------------------|----------------|
| <b>Project</b>     | Lea County, New Mexico (NAD 83) |                      |                |
| <b>Map System:</b> | US State Plane 1983             | <b>System Datum:</b> | Mean Sea Level |
| <b>Geo Datum:</b>  | North American Datum 1983       |                      |                |
| <b>Map Zone:</b>   | New Mexico Central Zone         |                      |                |

|                       |           |                   |                 |                   |                  |
|-----------------------|-----------|-------------------|-----------------|-------------------|------------------|
| Site                  |           | Paduca "16" State |                 |                   |                  |
| Site Position:        |           | Northing:         | 414,244.02 usft | Latitude:         | 32° 6' 20.688 N  |
| From:                 | Map       | Easting:          | 744,014.57 usft | Longitude:        | 109° 8' 40.363 W |
| Position Uncertainty: | 0.00 usft | Slot Radius:      | 13-3/16 "       | Grid Convergence: | -1.54 °          |

|                      |           |                |                     |                 |               |                  |
|----------------------|-----------|----------------|---------------------|-----------------|---------------|------------------|
| Well                 | 503H      |                |                     |                 |               |                  |
| Well Position        | +N/-S     | -12.84 usft    | Northing:           | 414,231.18 usft | Latitude:     | 32° 6' 20.282 N  |
|                      | +E/-W     | -1,048.12 usft | Easting:            | 742,966.46 usft | Longitude:    | 109° 8' 52.529 W |
| Position Uncertainty | 0.00 usft |                | Wellhead Elevation: |                 | Ground Level: | 3,427.00 usft    |

|                  |                   |                    |                        |                      |                            |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| <b>Wellbore</b>  | Wellbore #1       |                    |                        |                      |                            |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination (°)</b> | <b>Dip Angle (°)</b> | <b>Field Strength (nT)</b> |
|                  | BGGM2017          | 02/02/18           | 9.16                   | 58.91                | 47,089                     |

|                          |                                |                     |                      |                      |
|--------------------------|--------------------------------|---------------------|----------------------|----------------------|
| <b>Design</b>            | Design #1                      |                     |                      |                      |
| <b>Audit Notes:</b>      |                                |                     |                      |                      |
| <b>Version:</b>          | <b>Phase:</b>                  | PLAN                | <b>Tie On Depth:</b> | 0.00                 |
| <b>Vertical Section:</b> | <b>Depth From (TVD) (usft)</b> | <b>+N/-S (usft)</b> | <b>+E/-W (usft)</b>  | <b>Direction (°)</b> |
|                          | 0.00                           | 0.00                | 0.00                 | 176.95               |

|                                 |                        |                          |                         |                     |
|---------------------------------|------------------------|--------------------------|-------------------------|---------------------|
| <b>Plan Survey Tool Program</b> | <b>Date</b>            | 02/15/18                 |                         |                     |
| <b>Depth From (usft)</b>        | <b>Depth To (usft)</b> | <b>Survey (Wellbore)</b> | <b>Tool Name</b>        | <b>Remarks</b>      |
| 1                               | 0.00                   | 15,313.79                | Design #1 (Wellbore #1) | MWD                 |
|                                 |                        |                          |                         | OWSG MWD - Standard |

|                  |                                 |                                     |                    |
|------------------|---------------------------------|-------------------------------------|--------------------|
| <b>Database:</b> | Conroe Server                   | <b>Local Co-ordinate Reference:</b> | Well 503H          |
| <b>Company:</b>  | Pride Energy Company            | <b>TVD Reference:</b>               | WELL @ 3447.00usft |
| <b>Project:</b>  | Lea County, New Mexico (NAD 83) | <b>MD Reference:</b>                | WELL @ 3447.00usft |
| <b>Site:</b>     | Paduca "16" State               | <b>North Reference:</b>             | Grid               |
| <b>Well:</b>     | 503H                            | <b>Survey Calculation Method:</b>   | Minimum Curvature  |
| <b>Wellbore:</b> | Wellbore #1                     |                                     |                    |
| <b>Design:</b>   | Design #1                       |                                     |                    |

| Plan Sections         |                 |             |                       |              |              |                         |                        |                       |         |                    |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|------------------------|-----------------------|---------|--------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | TFO (°) | Target             |
| 0.00                  | 0.00            | 0.00        | 0.00                  | 0.00         | 0.00         | 0.00                    | 0.00                   | 0.00                  | 0.00    |                    |
| 3,000.00              | 0.00            | 0.00        | 3,000.00              | 0.00         | 0.00         | 0.00                    | 0.00                   | 0.00                  | 0.00    |                    |
| 3,100.00              | 2.00            | 50.00       | 3,099.98              | 1.12         | 1.34         | 2.00                    | 2.00                   | 0.00                  | 50.00   |                    |
| 5,200.00              | 2.00            | 50.00       | 5,198.70              | 48.23        | 57.48        | 0.00                    | 0.00                   | 0.00                  | 0.00    |                    |
| 5,333.33              | 0.00            | 0.00        | 5,332.01              | 49.73        | 59.26        | 1.50                    | -1.50                  | 0.00                  | 180.00  |                    |
| 7,200.00              | 0.00            | 0.00        | 7,198.67              | 49.73        | 59.26        | 0.00                    | 0.00                   | 0.00                  | 0.00    |                    |
| 7,449.98              | 5.00            | 52.57       | 7,448.34              | 56.35        | 67.92        | 2.00                    | 2.00                   | 0.00                  | 52.57   |                    |
| 9,674.76              | 5.00            | 52.57       | 9,664.65              | 174.19       | 221.89       | 0.00                    | 0.00                   | 0.00                  | 0.00    |                    |
| 10,008.07             | 0.00            | 0.00        | 9,997.54              | 183.02       | 233.43       | 1.50                    | -1.50                  | 0.00                  | 180.00  |                    |
| 10,108.07             | 0.00            | 0.00        | 10,097.54             | 183.02       | 233.43       | 0.00                    | 0.00                   | 0.00                  | 0.00    |                    |
| 10,858.07             | 90.00           | 179.77      | 10,575.01             | -294.44      | 235.31       | 12.00                   | 12.00                  | 23.97                 | 179.77  |                    |
| 15,314.49             | 90.00           | 179.77      | 10,575.00             | -4,750.83    | 252.85       | 0.00                    | 0.00                   | 0.00                  | 0.00    | PBHL - Paduca "16" |

|           |                                 |                              |                    |
|-----------|---------------------------------|------------------------------|--------------------|
| Database: | Conroe Server                   | Local Co-ordinate Reference: | Well 503H          |
| Company:  | Pride Energy Company            | TVD Reference:               | WELL @ 3447.00usft |
| Project:  | Lea County, New Mexico (NAD 83) | MD Reference:                | WELL @ 3447.00usft |
| Site:     | Paduca "16" State               | North Reference:             | Grid               |
| Well:     | 503H                            | Survey Calculation Method:   | Minimum Curvature  |
| Wellbore: | Wellbore #1                     |                              |                    |
| Design:   | Design #1                       |                              |                    |

| Planned Survey             |                 |             |                       |              |              |                         |                         |                        |                       |
|----------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft)      | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 0.00                       | 0.00            | 0.00        | 0.00                  | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 100.00                     | 0.00            | 0.00        | 100.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 200.00                     | 0.00            | 0.00        | 200.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 300.00                     | 0.00            | 0.00        | 300.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 400.00                     | 0.00            | 0.00        | 400.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 500.00                     | 0.00            | 0.00        | 500.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 600.00                     | 0.00            | 0.00        | 600.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 700.00                     | 0.00            | 0.00        | 700.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 800.00                     | 0.00            | 0.00        | 800.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 900.00                     | 0.00            | 0.00        | 900.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 1,000.00                   | 0.00            | 0.00        | 1,000.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 1,100.00                   | 0.00            | 0.00        | 1,100.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 1,200.00                   | 0.00            | 0.00        | 1,200.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 1,300.00                   | 0.00            | 0.00        | 1,300.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 1,400.00                   | 0.00            | 0.00        | 1,400.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 1,500.00                   | 0.00            | 0.00        | 1,500.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 1,600.00                   | 0.00            | 0.00        | 1,600.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 1,700.00                   | 0.00            | 0.00        | 1,700.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 1,800.00                   | 0.00            | 0.00        | 1,800.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 1,900.00                   | 0.00            | 0.00        | 1,900.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 2,000.00                   | 0.00            | 0.00        | 2,000.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 2,100.00                   | 0.00            | 0.00        | 2,100.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 2,200.00                   | 0.00            | 0.00        | 2,200.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 2,300.00                   | 0.00            | 0.00        | 2,300.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 2,400.00                   | 0.00            | 0.00        | 2,400.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 2,500.00                   | 0.00            | 0.00        | 2,500.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 2,600.00                   | 0.00            | 0.00        | 2,600.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 2,700.00                   | 0.00            | 0.00        | 2,700.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 2,800.00                   | 0.00            | 0.00        | 2,800.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 2,900.00                   | 0.00            | 0.00        | 2,900.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 3,000.00                   | 0.00            | 0.00        | 3,000.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| KOP, 2.00°/100' Build      |                 |             |                       |              |              |                         |                         |                        |                       |
| 3,100.00                   | 2.00            | 50.00       | 3,099.98              | 1.12         | 1.34         | -1.05                   | 2.00                    | 2.00                   | 0.00                  |
| Hold 2.00° Inc, 50.00° Azm |                 |             |                       |              |              |                         |                         |                        |                       |
| 3,200.00                   | 2.00            | 50.00       | 3,199.92              | 3.37         | 4.01         | -3.15                   | 0.00                    | 0.00                   | 0.00                  |
| 3,300.00                   | 2.00            | 50.00       | 3,299.86              | 5.61         | 6.68         | -5.25                   | 0.00                    | 0.00                   | 0.00                  |
| 3,400.00                   | 2.00            | 50.00       | 3,399.80              | 7.85         | 9.36         | -7.34                   | 0.00                    | 0.00                   | 0.00                  |
| 3,500.00                   | 2.00            | 50.00       | 3,499.74              | 10.09        | 12.03        | -9.44                   | 0.00                    | 0.00                   | 0.00                  |
| 3,600.00                   | 2.00            | 50.00       | 3,599.68              | 12.34        | 14.70        | -11.54                  | 0.00                    | 0.00                   | 0.00                  |
| 3,700.00                   | 2.00            | 50.00       | 3,699.61              | 14.58        | 17.38        | -13.64                  | 0.00                    | 0.00                   | 0.00                  |
| 3,800.00                   | 2.00            | 50.00       | 3,799.55              | 16.82        | 20.05        | -15.74                  | 0.00                    | 0.00                   | 0.00                  |
| 3,900.00                   | 2.00            | 50.00       | 3,899.49              | 19.07        | 22.72        | -17.83                  | 0.00                    | 0.00                   | 0.00                  |
| 4,000.00                   | 2.00            | 50.00       | 3,999.43              | 21.31        | 25.40        | -19.93                  | 0.00                    | 0.00                   | 0.00                  |
| 4,100.00                   | 2.00            | 50.00       | 4,099.37              | 23.55        | 28.07        | -22.03                  | 0.00                    | 0.00                   | 0.00                  |
| 4,200.00                   | 2.00            | 50.00       | 4,199.31              | 25.80        | 30.74        | -24.13                  | 0.00                    | 0.00                   | 0.00                  |
| 4,300.00                   | 2.00            | 50.00       | 4,299.25              | 28.04        | 33.42        | -26.23                  | 0.00                    | 0.00                   | 0.00                  |
| 4,400.00                   | 2.00            | 50.00       | 4,399.19              | 30.28        | 36.09        | -28.32                  | 0.00                    | 0.00                   | 0.00                  |
| 4,500.00                   | 2.00            | 50.00       | 4,499.13              | 32.53        | 38.77        | -30.42                  | 0.00                    | 0.00                   | 0.00                  |
| 4,600.00                   | 2.00            | 50.00       | 4,599.07              | 34.77        | 41.44        | -32.52                  | 0.00                    | 0.00                   | 0.00                  |
| 4,700.00                   | 2.00            | 50.00       | 4,699.01              | 37.01        | 44.11        | -34.62                  | 0.00                    | 0.00                   | 0.00                  |
| 4,800.00                   | 2.00            | 50.00       | 4,798.94              | 39.26        | 46.79        | -36.72                  | 0.00                    | 0.00                   | 0.00                  |
| 4,900.00                   | 2.00            | 50.00       | 4,898.88              | 41.50        | 49.46        | -38.81                  | 0.00                    | 0.00                   | 0.00                  |
| 5,000.00                   | 2.00            | 50.00       | 4,998.82              | 43.74        | 52.13        | -40.91                  | 0.00                    | 0.00                   | 0.00                  |
| 5,100.00                   | 2.00            | 50.00       | 5,098.76              | 45.99        | 54.81        | -43.01                  | 0.00                    | 0.00                   | 0.00                  |

|                  |                                 |                                     |                    |
|------------------|---------------------------------|-------------------------------------|--------------------|
| <b>Database:</b> | Conroe Server                   | <b>Local Co-ordinate Reference:</b> | Well 503H          |
| <b>Company:</b>  | Pride Energy Company            | <b>TVD Reference:</b>               | WELL @ 3447.00usft |
| <b>Project:</b>  | Lea County, New Mexico (NAD 83) | <b>MD Reference:</b>                | WELL @ 3447.00usft |
| <b>Site:</b>     | Paduca "16" State               | <b>North Reference:</b>             | Grid               |
| <b>Well:</b>     | 503H                            | <b>Survey Calculation Method:</b>   | Minimum Curvature  |
| <b>Wellbore:</b> | Wellbore #1                     |                                     |                    |
| <b>Design:</b>   | Design #1                       |                                     |                    |

| Planned Survey                    |                 |             |                       |              |              |                         |                         |                        |                       |
|-----------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft)             | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 5,200.00                          | 2.00            | 50.00       | 5,198.70              | 48.23        | 57.48        | -45.11                  | 0.00                    | 0.00                   | 0.00                  |
| <b>Begin 1.50°/100' Drop</b>      |                 |             |                       |              |              |                         |                         |                        |                       |
| 5,300.00                          | 0.50            | 50.00       | 5,298.67              | 49.63        | 59.15        | -46.42                  | 1.50                    | -1.50                  | 0.00                  |
| 5,333.33                          | 0.00            | 0.00        | 5,332.01              | 49.73        | 59.26        | -46.51                  | 1.50                    | -1.50                  | 0.00                  |
| <b>Begin Vertical Hold</b>        |                 |             |                       |              |              |                         |                         |                        |                       |
| 5,400.00                          | 0.00            | 0.00        | 5,398.67              | 49.73        | 59.26        | -46.51                  | 0.00                    | 0.00                   | 0.00                  |
| 5,500.00                          | 0.00            | 0.00        | 5,498.67              | 49.73        | 59.26        | -46.51                  | 0.00                    | 0.00                   | 0.00                  |
| 5,600.00                          | 0.00            | 0.00        | 5,598.67              | 49.73        | 59.26        | -46.51                  | 0.00                    | 0.00                   | 0.00                  |
| 5,700.00                          | 0.00            | 0.00        | 5,698.67              | 49.73        | 59.26        | -46.51                  | 0.00                    | 0.00                   | 0.00                  |
| 5,800.00                          | 0.00            | 0.00        | 5,798.67              | 49.73        | 59.26        | -46.51                  | 0.00                    | 0.00                   | 0.00                  |
| 5,900.00                          | 0.00            | 0.00        | 5,898.67              | 49.73        | 59.26        | -46.51                  | 0.00                    | 0.00                   | 0.00                  |
| 6,000.00                          | 0.00            | 0.00        | 5,998.67              | 49.73        | 59.26        | -46.51                  | 0.00                    | 0.00                   | 0.00                  |
| 6,100.00                          | 0.00            | 0.00        | 6,098.67              | 49.73        | 59.26        | -46.51                  | 0.00                    | 0.00                   | 0.00                  |
| 6,200.00                          | 0.00            | 0.00        | 6,198.67              | 49.73        | 59.26        | -46.51                  | 0.00                    | 0.00                   | 0.00                  |
| 6,300.00                          | 0.00            | 0.00        | 6,298.67              | 49.73        | 59.26        | -46.51                  | 0.00                    | 0.00                   | 0.00                  |
| 6,400.00                          | 0.00            | 0.00        | 6,398.67              | 49.73        | 59.26        | -46.51                  | 0.00                    | 0.00                   | 0.00                  |
| 6,500.00                          | 0.00            | 0.00        | 6,498.67              | 49.73        | 59.26        | -46.51                  | 0.00                    | 0.00                   | 0.00                  |
| 6,600.00                          | 0.00            | 0.00        | 6,598.67              | 49.73        | 59.26        | -46.51                  | 0.00                    | 0.00                   | 0.00                  |
| 6,700.00                          | 0.00            | 0.00        | 6,698.67              | 49.73        | 59.26        | -46.51                  | 0.00                    | 0.00                   | 0.00                  |
| 6,800.00                          | 0.00            | 0.00        | 6,798.67              | 49.73        | 59.26        | -46.51                  | 0.00                    | 0.00                   | 0.00                  |
| 6,900.00                          | 0.00            | 0.00        | 6,898.67              | 49.73        | 59.26        | -46.51                  | 0.00                    | 0.00                   | 0.00                  |
| 7,000.00                          | 0.00            | 0.00        | 6,998.67              | 49.73        | 59.26        | -46.51                  | 0.00                    | 0.00                   | 0.00                  |
| 7,100.00                          | 0.00            | 0.00        | 7,098.67              | 49.73        | 59.26        | -46.51                  | 0.00                    | 0.00                   | 0.00                  |
| 7,200.00                          | 0.00            | 0.00        | 7,198.67              | 49.73        | 59.26        | -46.51                  | 0.00                    | 0.00                   | 0.00                  |
| <b>Begin 2.00°/100' Build</b>     |                 |             |                       |              |              |                         |                         |                        |                       |
| 7,300.00                          | 2.00            | 52.57       | 7,298.65              | 50.79        | 60.65        | -47.49                  | 2.00                    | 2.00                   | 0.00                  |
| 7,400.00                          | 4.00            | 52.57       | 7,398.51              | 53.97        | 64.80        | -50.45                  | 2.00                    | 2.00                   | 0.00                  |
| 7,449.98                          | 5.00            | 52.57       | 7,448.34              | 56.35        | 67.92        | -52.66                  | 2.00                    | 2.00                   | 0.00                  |
| <b>Hold 5.00° Inc, 52.57° Azm</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 7,500.00                          | 5.00            | 52.57       | 7,498.17              | 59.00        | 71.38        | -55.12                  | 0.00                    | 0.00                   | 0.00                  |
| 7,600.00                          | 5.00            | 52.57       | 7,597.79              | 64.30        | 78.30        | -60.04                  | 0.00                    | 0.00                   | 0.00                  |
| 7,700.00                          | 5.00            | 52.57       | 7,697.41              | 69.59        | 85.22        | -64.97                  | 0.00                    | 0.00                   | 0.00                  |
| 7,800.00                          | 5.00            | 52.57       | 7,797.02              | 74.89        | 92.14        | -69.89                  | 0.00                    | 0.00                   | 0.00                  |
| 7,900.00                          | 5.00            | 52.57       | 7,896.64              | 80.19        | 99.06        | -74.81                  | 0.00                    | 0.00                   | 0.00                  |
| 8,000.00                          | 5.00            | 52.57       | 7,996.26              | 85.48        | 105.98       | -79.73                  | 0.00                    | 0.00                   | 0.00                  |
| 8,100.00                          | 5.00            | 52.57       | 8,095.88              | 90.78        | 112.91       | -84.65                  | 0.00                    | 0.00                   | 0.00                  |
| 8,200.00                          | 5.00            | 52.57       | 8,195.50              | 96.08        | 119.83       | -89.57                  | 0.00                    | 0.00                   | 0.00                  |
| 8,300.00                          | 5.00            | 52.57       | 8,295.12              | 101.37       | 126.75       | -94.49                  | 0.00                    | 0.00                   | 0.00                  |
| 8,400.00                          | 5.00            | 52.57       | 8,394.74              | 106.67       | 133.67       | -99.41                  | 0.00                    | 0.00                   | 0.00                  |
| 8,500.00                          | 5.00            | 52.57       | 8,494.36              | 111.96       | 140.59       | -104.33                 | 0.00                    | 0.00                   | 0.00                  |
| 8,600.00                          | 5.00            | 52.57       | 8,593.98              | 117.26       | 147.51       | -109.26                 | 0.00                    | 0.00                   | 0.00                  |
| 8,700.00                          | 5.00            | 52.57       | 8,693.60              | 122.56       | 154.43       | -114.18                 | 0.00                    | 0.00                   | 0.00                  |
| 8,800.00                          | 5.00            | 52.57       | 8,793.22              | 127.85       | 161.35       | -119.10                 | 0.00                    | 0.00                   | 0.00                  |
| 8,900.00                          | 5.00            | 52.57       | 8,892.84              | 133.15       | 168.27       | -124.02                 | 0.00                    | 0.00                   | 0.00                  |
| 9,000.00                          | 5.00            | 52.57       | 8,992.46              | 138.45       | 175.19       | -128.94                 | 0.00                    | 0.00                   | 0.00                  |
| 9,100.00                          | 5.00            | 52.57       | 9,092.08              | 143.74       | 182.11       | -133.86                 | 0.00                    | 0.00                   | 0.00                  |
| 9,200.00                          | 5.00            | 52.57       | 9,191.70              | 149.04       | 189.04       | -138.78                 | 0.00                    | 0.00                   | 0.00                  |
| 9,300.00                          | 5.00            | 52.57       | 9,291.32              | 154.34       | 195.96       | -143.70                 | 0.00                    | 0.00                   | 0.00                  |
| 9,400.00                          | 5.00            | 52.57       | 9,390.94              | 159.63       | 202.88       | -148.63                 | 0.00                    | 0.00                   | 0.00                  |
| 9,500.00                          | 5.00            | 52.57       | 9,490.56              | 164.93       | 209.80       | -153.55                 | 0.00                    | 0.00                   | 0.00                  |
| 9,600.00                          | 5.00            | 52.57       | 9,590.18              | 170.23       | 216.72       | -158.47                 | 0.00                    | 0.00                   | 0.00                  |
| 9,674.76                          | 5.00            | 52.57       | 9,664.65              | 174.19       | 221.89       | -162.15                 | 0.00                    | 0.00                   | 0.00                  |
| <b>Begin 1.50°/100' Drop</b>      |                 |             |                       |              |              |                         |                         |                        |                       |

|           |                                 |                              |                    |
|-----------|---------------------------------|------------------------------|--------------------|
| Database: | Conroe Server                   | Local Co-ordinate Reference: | Well 503H          |
| Company:  | Pride Energy Company            | TVD Reference:               | WELL @ 3447.00usft |
| Project:  | Lea County, New Mexico (NAD 83) | MD Reference:                | WELL @ 3447.00usft |
| Site:     | Paduca "16" State               | North Reference:             | Grid               |
| Well:     | 503H                            | Survey Calculation Method:   | Minimum Curvature  |
| Wellbore: | Wellbore #1                     |                              |                    |
| Design:   | Design #1                       |                              |                    |

| Planned Survey          |                 |             |                       |              |              |                         |                         |                        |                       |
|-------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft)   | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 9,700.00                | 4.62            | 52.57       | 9,689.80              | 175.47       | 223.57       | -163.34                 | 1.50                    | -1.50                  | 0.00                  |
| 9,800.00                | 3.12            | 52.57       | 9,789.57              | 179.57       | 228.94       | -167.15                 | 1.50                    | -1.50                  | 0.00                  |
| 9,900.00                | 1.62            | 52.57       | 9,889.48              | 182.09       | 232.22       | -169.49                 | 1.50                    | -1.50                  | 0.00                  |
| 10,008.07               | 0.00            | 0.00        | 9,997.54              | 183.02       | 233.43       | -170.35                 | 1.50                    | -1.50                  | 0.00                  |
| Begin Vertical Hold     |                 |             |                       |              |              |                         |                         |                        |                       |
| 10,108.07               | 0.00            | 0.00        | 10,097.54             | 183.02       | 233.43       | -170.35                 | 0.00                    | 0.00                   | 0.00                  |
| Begin 12.00°/100' Build |                 |             |                       |              |              |                         |                         |                        |                       |
| 10,125.00               | 2.03            | 179.77      | 10,114.47             | 182.72       | 233.44       | -170.05                 | 12.00                   | 12.00                  | 0.00                  |
| 10,150.00               | 5.03            | 179.77      | 10,139.41             | 181.18       | 233.44       | -168.52                 | 12.00                   | 12.00                  | 0.00                  |
| 10,175.00               | 8.03            | 179.77      | 10,164.25             | 178.33       | 233.45       | -165.68                 | 12.00                   | 12.00                  | 0.00                  |
| 10,200.00               | 11.03           | 179.77      | 10,188.90             | 174.20       | 233.47       | -161.54                 | 12.00                   | 12.00                  | 0.00                  |
| 10,225.00               | 14.03           | 179.77      | 10,213.30             | 168.77       | 233.49       | -156.12                 | 12.00                   | 12.00                  | 0.00                  |
| 10,250.00               | 17.03           | 179.77      | 10,237.39             | 162.08       | 233.52       | -149.44                 | 12.00                   | 12.00                  | 0.00                  |
| 10,275.00               | 20.03           | 179.77      | 10,261.09             | 154.13       | 233.55       | -141.50                 | 12.00                   | 12.00                  | 0.00                  |
| 10,300.00               | 23.03           | 179.77      | 10,284.34             | 144.96       | 233.58       | -132.34                 | 12.00                   | 12.00                  | 0.00                  |
| 10,325.00               | 26.03           | 179.77      | 10,307.08             | 134.58       | 233.63       | -121.97                 | 12.00                   | 12.00                  | 0.00                  |
| 10,350.00               | 29.03           | 179.77      | 10,329.25             | 123.03       | 233.67       | -110.43                 | 12.00                   | 12.00                  | 0.00                  |
| 10,375.00               | 32.03           | 179.77      | 10,350.78             | 110.33       | 233.72       | -97.75                  | 12.00                   | 12.00                  | 0.00                  |
| 10,400.00               | 35.03           | 179.77      | 10,371.62             | 96.52        | 233.78       | -83.96                  | 12.00                   | 12.00                  | 0.00                  |
| 10,425.00               | 38.03           | 179.77      | 10,391.70             | 81.64        | 233.83       | -69.10                  | 12.00                   | 12.00                  | 0.00                  |
| 10,450.00               | 41.03           | 179.77      | 10,410.98             | 65.73        | 233.90       | -53.21                  | 12.00                   | 12.00                  | 0.00                  |
| 10,475.00               | 44.03           | 179.77      | 10,429.40             | 48.83        | 233.96       | -36.33                  | 12.00                   | 12.00                  | 0.00                  |
| 10,500.00               | 47.03           | 179.77      | 10,446.91             | 30.99        | 234.03       | -18.51                  | 12.00                   | 12.00                  | 0.00                  |
| 10,525.00               | 50.03           | 179.77      | 10,463.47             | 12.26        | 234.11       | 0.20                    | 12.00                   | 12.00                  | 0.00                  |
| 10,550.00               | 53.03           | 179.77      | 10,479.02             | -7.31        | 234.18       | 19.74                   | 12.00                   | 12.00                  | 0.00                  |
| 10,575.00               | 56.03           | 179.77      | 10,493.52             | -27.67       | 234.26       | 40.08                   | 12.00                   | 12.00                  | 0.00                  |
| 10,600.00               | 59.03           | 179.77      | 10,506.94             | -48.76       | 234.35       | 61.14                   | 12.00                   | 12.00                  | 0.00                  |
| 10,625.00               | 62.03           | 179.77      | 10,519.24             | -70.52       | 234.43       | 82.88                   | 12.00                   | 12.00                  | 0.00                  |
| 10,650.00               | 65.03           | 179.77      | 10,530.38             | -92.90       | 234.52       | 105.23                  | 12.00                   | 12.00                  | 0.00                  |
| 10,675.00               | 68.03           | 179.77      | 10,540.34             | -115.83      | 234.61       | 128.13                  | 12.00                   | 12.00                  | 0.00                  |
| 10,700.00               | 71.03           | 179.77      | 10,549.08             | -139.24      | 234.70       | 151.52                  | 12.00                   | 12.00                  | 0.00                  |
| 10,725.00               | 74.03           | 179.77      | 10,556.58             | -163.09      | 234.80       | 175.34                  | 12.00                   | 12.00                  | 0.00                  |
| 10,750.00               | 77.03           | 179.77      | 10,562.83             | -187.29      | 234.89       | 199.51                  | 12.00                   | 12.00                  | 0.00                  |
| 10,775.00               | 80.03           | 179.77      | 10,567.80             | -211.79      | 234.99       | 223.98                  | 12.00                   | 12.00                  | 0.00                  |
| 10,800.00               | 83.03           | 179.77      | 10,571.48             | -236.52      | 235.09       | 248.68                  | 12.00                   | 12.00                  | 0.00                  |
| 10,825.00               | 86.03           | 179.77      | 10,573.86             | -261.40      | 235.18       | 273.53                  | 12.00                   | 12.00                  | 0.00                  |
| 10,850.00               | 89.03           | 179.77      | 10,574.94             | -286.37      | 235.28       | 298.47                  | 12.00                   | 12.00                  | 0.00                  |
| 10,858.07               | 90.00           | 179.77      | 10,575.01             | -294.44      | 235.31       | 306.53                  | 12.00                   | 12.00                  | 0.00                  |
| Begin 90.00° Lateral    |                 |             |                       |              |              |                         |                         |                        |                       |
| 10,900.00               | 90.00           | 179.77      | 10,575.01             | -336.37      | 235.48       | 348.41                  | 0.00                    | 0.00                   | 0.00                  |
| 11,000.00               | 90.00           | 179.77      | 10,575.00             | -436.37      | 235.87       | 448.29                  | 0.00                    | 0.00                   | 0.00                  |
| 11,100.00               | 90.00           | 179.77      | 10,575.00             | -536.37      | 236.27       | 548.17                  | 0.00                    | 0.00                   | 0.00                  |
| 11,200.00               | 90.00           | 179.77      | 10,575.00             | -636.37      | 236.66       | 648.05                  | 0.00                    | 0.00                   | 0.00                  |
| 11,300.00               | 90.00           | 179.77      | 10,575.00             | -736.37      | 237.05       | 747.93                  | 0.00                    | 0.00                   | 0.00                  |
| 11,400.00               | 90.00           | 179.77      | 10,575.00             | -836.37      | 237.45       | 847.81                  | 0.00                    | 0.00                   | 0.00                  |
| 11,500.00               | 90.00           | 179.77      | 10,575.00             | -936.37      | 237.84       | 947.68                  | 0.00                    | 0.00                   | 0.00                  |
| 11,600.00               | 90.00           | 179.77      | 10,575.00             | -1,036.37    | 238.23       | 1,047.56                | 0.00                    | 0.00                   | 0.00                  |
| 11,700.00               | 90.00           | 179.77      | 10,575.00             | -1,136.37    | 238.63       | 1,147.44                | 0.00                    | 0.00                   | 0.00                  |
| 11,800.00               | 90.00           | 179.77      | 10,575.00             | -1,236.36    | 239.02       | 1,247.32                | 0.00                    | 0.00                   | 0.00                  |
| 11,900.00               | 90.00           | 179.77      | 10,575.00             | -1,336.36    | 239.41       | 1,347.20                | 0.00                    | 0.00                   | 0.00                  |
| 12,000.00               | 90.00           | 179.77      | 10,575.00             | -1,436.36    | 239.81       | 1,447.08                | 0.00                    | 0.00                   | 0.00                  |
| 12,100.00               | 90.00           | 179.77      | 10,575.00             | -1,536.36    | 240.20       | 1,546.96                | 0.00                    | 0.00                   | 0.00                  |
| 12,200.00               | 90.00           | 179.77      | 10,575.00             | -1,636.36    | 240.59       | 1,646.84                | 0.00                    | 0.00                   | 0.00                  |

|                  |                                 |                                     |                    |
|------------------|---------------------------------|-------------------------------------|--------------------|
| <b>Database:</b> | Conroe Server                   | <b>Local Co-ordinate Reference:</b> | Well 503H          |
| <b>Company:</b>  | Pride Energy Company            | <b>TVD Reference:</b>               | WELL @ 3447.00usft |
| <b>Project:</b>  | Lea County, New Mexico (NAD 83) | <b>MD Reference:</b>                | WELL @ 3447.00usft |
| <b>Site:</b>     | Paduca "16" State               | <b>North Reference:</b>             | Grid               |
| <b>Well:</b>     | 503H                            | <b>Survey Calculation Method:</b>   | Minimum Curvature  |
| <b>Wellbore:</b> | Wellbore #1                     |                                     |                    |
| <b>Design:</b>   | Design #1                       |                                     |                    |

| Planned Survey        |                 |             |                       |              |              |                         |                         |                        |                       |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 12,300.00             | 90.00           | 179.77      | 10,575.00             | -1,736.36    | 240.99       | 1,746.71                | 0.00                    | 0.00                   | 0.00                  |
| 12,400.00             | 90.00           | 179.77      | 10,575.00             | -1,836.36    | 241.38       | 1,846.59                | 0.00                    | 0.00                   | 0.00                  |
| 12,500.00             | 90.00           | 179.77      | 10,575.00             | -1,936.36    | 241.78       | 1,946.47                | 0.00                    | 0.00                   | 0.00                  |
| 12,600.00             | 90.00           | 179.77      | 10,575.00             | -2,036.36    | 242.17       | 2,046.35                | 0.00                    | 0.00                   | 0.00                  |
| 12,700.00             | 90.00           | 179.77      | 10,575.00             | -2,136.36    | 242.56       | 2,146.23                | 0.00                    | 0.00                   | 0.00                  |
| 12,800.00             | 90.00           | 179.77      | 10,575.00             | -2,236.36    | 242.96       | 2,246.11                | 0.00                    | 0.00                   | 0.00                  |
| 12,900.00             | 90.00           | 179.77      | 10,575.00             | -2,336.36    | 243.35       | 2,345.99                | 0.00                    | 0.00                   | 0.00                  |
| 13,000.00             | 90.00           | 179.77      | 10,575.00             | -2,436.36    | 243.74       | 2,445.87                | 0.00                    | 0.00                   | 0.00                  |
| 13,100.00             | 90.00           | 179.77      | 10,575.00             | -2,536.35    | 244.14       | 2,545.74                | 0.00                    | 0.00                   | 0.00                  |
| 13,200.00             | 90.00           | 179.77      | 10,575.00             | -2,636.35    | 244.53       | 2,645.62                | 0.00                    | 0.00                   | 0.00                  |
| 13,300.00             | 90.00           | 179.77      | 10,575.00             | -2,736.35    | 244.92       | 2,745.50                | 0.00                    | 0.00                   | 0.00                  |
| 13,400.00             | 90.00           | 179.77      | 10,575.00             | -2,836.35    | 245.32       | 2,845.38                | 0.00                    | 0.00                   | 0.00                  |
| 13,500.00             | 90.00           | 179.77      | 10,575.00             | -2,936.35    | 245.71       | 2,945.26                | 0.00                    | 0.00                   | 0.00                  |
| 13,600.00             | 90.00           | 179.77      | 10,575.00             | -3,036.35    | 246.10       | 3,045.14                | 0.00                    | 0.00                   | 0.00                  |
| 13,700.00             | 90.00           | 179.77      | 10,575.00             | -3,136.35    | 246.50       | 3,145.02                | 0.00                    | 0.00                   | 0.00                  |
| 13,800.00             | 90.00           | 179.77      | 10,575.00             | -3,236.35    | 246.89       | 3,244.90                | 0.00                    | 0.00                   | 0.00                  |
| 13,900.00             | 90.00           | 179.77      | 10,575.00             | -3,336.35    | 247.28       | 3,344.78                | 0.00                    | 0.00                   | 0.00                  |
| 14,000.00             | 90.00           | 179.77      | 10,575.00             | -3,436.35    | 247.68       | 3,444.65                | 0.00                    | 0.00                   | 0.00                  |
| 14,100.00             | 90.00           | 179.77      | 10,575.00             | -3,536.35    | 248.07       | 3,544.53                | 0.00                    | 0.00                   | 0.00                  |
| 14,200.00             | 90.00           | 179.77      | 10,575.00             | -3,636.35    | 248.47       | 3,644.41                | 0.00                    | 0.00                   | 0.00                  |
| 14,300.00             | 90.00           | 179.77      | 10,575.00             | -3,736.35    | 248.86       | 3,744.29                | 0.00                    | 0.00                   | 0.00                  |
| 14,400.00             | 90.00           | 179.77      | 10,575.00             | -3,836.34    | 249.25       | 3,844.17                | 0.00                    | 0.00                   | 0.00                  |
| 14,500.00             | 90.00           | 179.77      | 10,575.00             | -3,936.34    | 249.65       | 3,944.05                | 0.00                    | 0.00                   | 0.00                  |
| 14,600.00             | 90.00           | 179.77      | 10,575.00             | -4,036.34    | 250.04       | 4,043.93                | 0.00                    | 0.00                   | 0.00                  |
| 14,700.00             | 90.00           | 179.77      | 10,575.00             | -4,136.34    | 250.43       | 4,143.81                | 0.00                    | 0.00                   | 0.00                  |
| 14,800.00             | 90.00           | 179.77      | 10,575.00             | -4,236.34    | 250.83       | 4,243.68                | 0.00                    | 0.00                   | 0.00                  |
| 14,900.00             | 90.00           | 179.77      | 10,575.00             | -4,336.34    | 251.22       | 4,343.56                | 0.00                    | 0.00                   | 0.00                  |
| 15,000.00             | 90.00           | 179.77      | 10,575.00             | -4,436.34    | 251.61       | 4,443.44                | 0.00                    | 0.00                   | 0.00                  |
| 15,100.00             | 90.00           | 179.77      | 10,575.00             | -4,536.34    | 252.01       | 4,543.32                | 0.00                    | 0.00                   | 0.00                  |
| 15,200.00             | 90.00           | 179.77      | 10,575.00             | -4,636.34    | 252.40       | 4,643.20                | 0.00                    | 0.00                   | 0.00                  |
| 15,300.00             | 90.00           | 179.77      | 10,575.00             | -4,736.34    | 252.79       | 4,743.08                | 0.00                    | 0.00                   | 0.00                  |
| 15,314.49             | 90.00           | 179.77      | 10,575.00             | -4,750.83    | 252.85       | 4,757.55                | 0.00                    | 0.00                   | 0.00                  |
| PBHL                  |                 |             |                       |              |              |                         |                         |                        |                       |

| Design Targets                                                   |               |              |            |              |              |                 |                |                 |                  |
|------------------------------------------------------------------|---------------|--------------|------------|--------------|--------------|-----------------|----------------|-----------------|------------------|
| Target Name                                                      | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude        | Longitude        |
| VP - Paduca "16" Stal<br>- hit/miss target<br>- Shape<br>- Point | 0.00          | 360.00       | 9,997.54   | 183.02       | 233.43       | 414,414.20      | 743,199.89     | 32° 6' 22.153 N | 109° 8' 49.876 W |
| PBHL - Paduca "16" S<br>- plan hits target center<br>- Point     | 0.00          | 360.00       | 10,575.00  | -4,750.83    | 252.85       | 409,480.35      | 743,219.31     | 32° 5' 33.394 N | 109° 8' 48.110 W |