



Company: Mewbourne Oil Company  
Lease/Well: Pine Box 21 MD Fed Com/1H

Rig Name: Patterson #101  
State/County: New Mexico/Eddy  
Latitude: 32.55

GRID North is 0.09 Degrees West of True North  
VS-Azi: 0.00 Degrees



30-015-39390

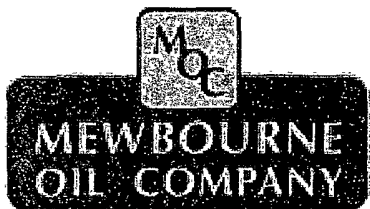
Depth Reference : RKB=18 Feet Elevation=3510 Feet

DRILLOG HA GYRO SURVEY CALCULATIONS  
Filename: pine box 21 md fed com #1h\_ed.ut  
Minimum Curvature Method  
Report Date/Time: 12/20/2011 / 15:31

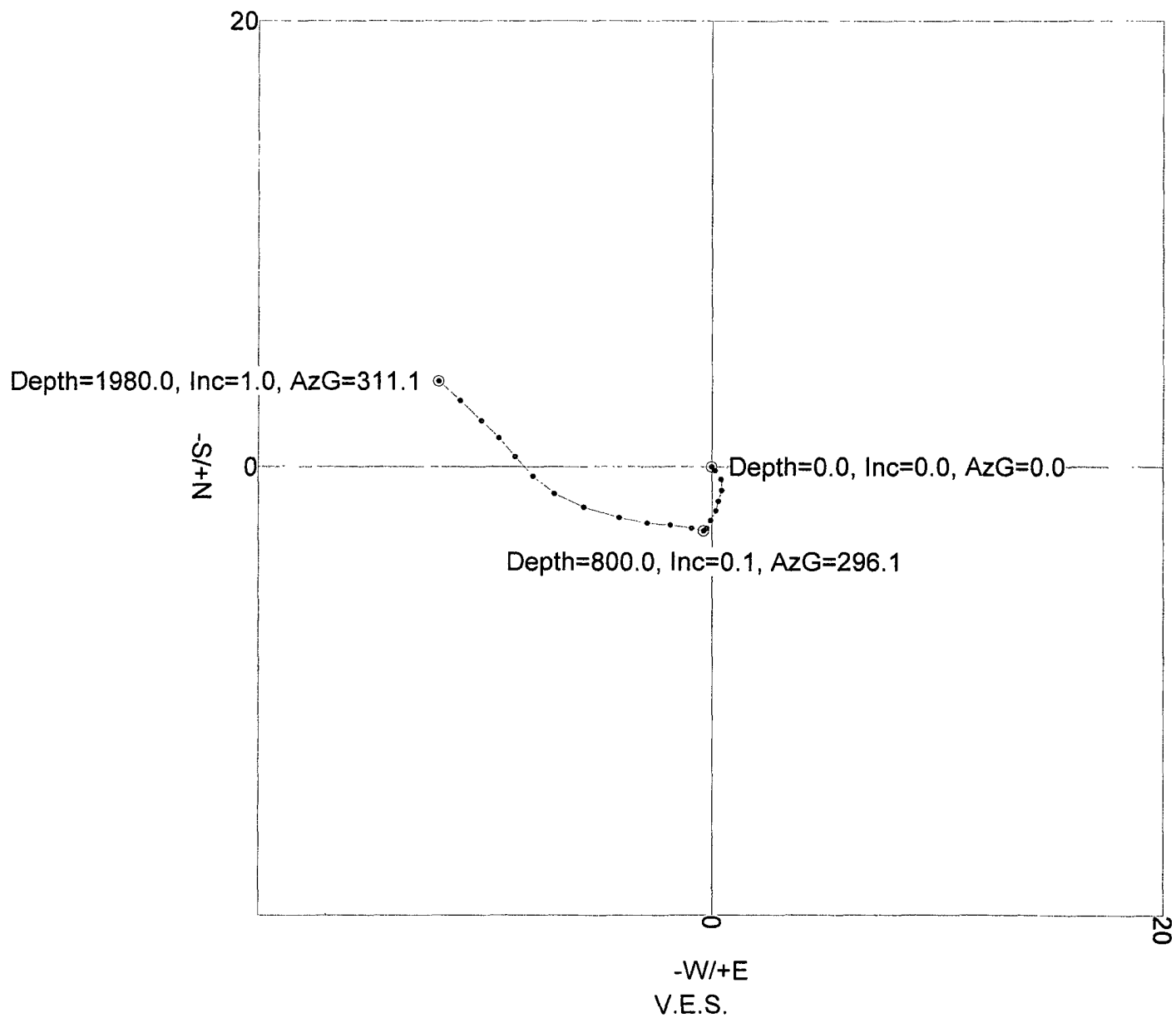
Vaughn Energy Services  
Midland, TX  
432-563-5444  
Surveyor: Zach Garcia  
Pine Box 21 MD Fed Com 1H

| Measured<br>Depth<br>FT | Incl<br>Angle<br>Deg | Drift<br>Direction<br>Deg | TVD<br>FT | +N/-S<br>FT | +E/-W<br>FT | Vertical<br>Section<br>FT | Closure<br>Distance<br>FT | Closure<br>Direction<br>Deg | Dogleg<br>Severity<br>Deg/100 |
|-------------------------|----------------------|---------------------------|-----------|-------------|-------------|---------------------------|---------------------------|-----------------------------|-------------------------------|
| 0.00                    | 0.00                 | 0.00                      | 0.00      | 0.00        | 0.00        | 0.00                      | 0.00                      | 0.00                        | ****                          |
| 100.00                  | 0.25                 | 137.39                    | 100.00    | -0.16       | 0.15        | -0.16                     | 0.22                      | 137.39                      | 0.25                          |
| 200.00                  | 0.29                 | 151.57                    | 200.00    | -0.55       | 0.42        | -0.55                     | 0.69                      | 142.54                      | 0.08                          |
| 300.00                  | 0.33                 | 202.74                    | 300.00    | -1.04       | 0.43        | -1.04                     | 1.13                      | 157.56                      | 0.27                          |
| 400.00                  | 0.25                 | 187.43                    | 400.00    | -1.52       | 0.29        | -1.52                     | 1.55                      | 169.23                      | 0.11                          |
| 500.00                  | 0.26                 | 202.88                    | 500.00    | -1.95       | 0.17        | -1.95                     | 1.95                      | 174.93                      | 0.07                          |
| 600.00                  | 0.29                 | 212.44                    | 599.99    | -2.37       | -0.05       | -2.37                     | 2.37                      | 181.28                      | 0.05                          |
| 700.00                  | 0.18                 | 192.17                    | 699.99    | -2.74       | -0.22       | -2.74                     | 2.75                      | 184.65                      | 0.14                          |
| 800.00                  | 0.13                 | 296.05                    | 799.99    | -2.84       | -0.36       | -2.84                     | 2.87                      | 187.17                      | 0.25                          |
| 900.00                  | 0.50                 | 278.69                    | 899.99    | -2.73       | -0.89       | -2.73                     | 2.87                      | 198.06                      | 0.38                          |
| 1000.00                 | 0.59                 | 278.00                    | 999.99    | -2.59       | -1.83       | -2.59                     | 3.17                      | 215.23                      | 0.09                          |
| 1100.00                 | 0.58                 | 271.52                    | 1099.98   | -2.51       | -2.85       | -2.51                     | 3.79                      | 228.64                      | 0.07                          |
| 1200.00                 | 0.91                 | 287.29                    | 1199.97   | -2.26       | -4.11       | -2.26                     | 4.69                      | 241.21                      | 0.38                          |
| 1300.00                 | 0.97                 | 285.56                    | 1299.96   | -1.79       | -5.68       | -1.79                     | 5.95                      | 252.46                      | 0.07                          |
| 1400.00                 | 0.70                 | 307.08                    | 1399.95   | -1.20       | -6.98       | -1.20                     | 7.08                      | 260.25                      | 0.41                          |
| 1500.00                 | 0.68                 | 312.70                    | 1499.94   | -0.43       | -7.90       | -0.43                     | 7.92                      | 266.91                      | 0.07                          |
| 1600.00                 | 0.68                 | 322.06                    | 1599.93   | 0.45        | -8.71       | 0.45                      | 8.72                      | 272.94                      | 0.11                          |
| 1700.00                 | 0.58                 | 316.38                    | 1699.93   | 1.28        | -9.42       | 1.28                      | 9.51                      | 277.76                      | 0.11                          |
| 1800.00                 | 0.66                 | 313.04                    | 1799.92   | 2.05        | -10.20      | 2.05                      | 10.40                     | 281.36                      | 0.09                          |

| Measured<br>Depth<br>FT | Incl<br>Angle<br>Deg | Drift<br>Direction<br>Deg | TVD<br>FT | +N/-S<br>FT | +E/-W<br>FT | Vertical<br>Section<br>FT | Closure<br>Distance<br>FT | Closure<br>Direction<br>Deg | Dogleg<br>Severity<br>Deg/100 |
|-------------------------|----------------------|---------------------------|-----------|-------------|-------------|---------------------------|---------------------------|-----------------------------|-------------------------------|
| 1900.00                 | 0.82                 | 314.55                    | 1899.91   | 2.95        | -11.13      | 2.95                      | 11.52                     | 284.83                      | 0.16                          |
| 1980.00                 | 1.00                 | 311.15                    | 1979.90   | 3.81        | -12.07      | 3.81                      | 12.66                     | 287.52                      | 0.24                          |



Vaughn Energy Services  
Midland, TX  
432-563-5444  
Surveyor: Zach Garcia  
Pine Box 21 MD Fed Com 1H



# **Mewbourne Oil Co**

**Eddy County, New Mexico**

**Section 21-20S-25E**

**Pine Box 21 MD Fed Com #1H**

**Wellbore #1**

**Survey: MWD**

## **DDC Survey Report**

**15 December, 2011**



# DDC Survey Report



|                  |                            |                                     |                                        |
|------------------|----------------------------|-------------------------------------|----------------------------------------|
| <b>Company:</b>  | Mewbourne Oil Co           | <b>Local Co-ordinate Reference:</b> | Well Pine Box 21 MD Fed Com #1H        |
| <b>Project:</b>  | Eddy County, New Mexico    | <b>TVD Reference:</b>               | WELL @ 3529.0usft (Patterson UTI #101) |
| <b>Site:</b>     | Section 21-20S-25E         | <b>MD Reference:</b>                | WELL @ 3529.0usft (Patterson UTI #101) |
| <b>Well:</b>     | Pine Box 21 MD Fed Com #1H | <b>North Reference:</b>             | Grid                                   |
| <b>Wellbore:</b> | Wellbore #1                | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Design:</b>   | Wellbore #1                | <b>Database:</b>                    | EDM 5000.1 Single User Db              |

|                    |                                      |                      |                |
|--------------------|--------------------------------------|----------------------|----------------|
| <b>Project:</b>    | Eddy County, New Mexico              |                      |                |
| <b>Map System:</b> | US State Plane 1927 (Exact solution) | <b>System Datum:</b> | Mean Sea Level |
| <b>Geo Datum:</b>  | NAD 1927 (NADCON CONUS)              |                      |                |
| <b>Map Zone:</b>   | New Mexico East 3001                 |                      |                |

|                       |          |                    |                 |                   |                   |
|-----------------------|----------|--------------------|-----------------|-------------------|-------------------|
| Site                  |          | Section 21-20S-25E |                 |                   |                   |
| Site Position:        |          | Northing:          | 569,825.22 usft | Latitude:         | 32° 33' 58.393 N  |
| From:                 | Map      | Easting:           | 410,431.75 usft | Longitude:        | 104° 37' 26.646 W |
| Position Uncertainty: | 0 0 usft | Slot Radius:       | 13-3/16 "       | Grid Convergence: | -0 16 °           |

|                             |                                                                                          |
|-----------------------------|------------------------------------------------------------------------------------------|
| <b>Well:</b>                | Pine-Box 21 MD Fed Com #1H                                                               |
| <b>Well Position</b>        | <b>+N-S</b> 0 0 usft <b>Northing:</b> 564,582.28 usft <b>Latitude:</b> 32° 33' 7.343 N   |
|                             | <b>+E-W</b> 0 0 usft <b>Easting:</b> 450,000.34 usft <b>Longitude:</b> 104° 29' 44.178 W |
| <b>Position Uncertainty</b> | 0.0 usft <b>Wellhead Elevation:</b> usft <b>Ground Level:</b> 3,510.0 usft               |

|                  |             |
|------------------|-------------|
| <b>Wellbore:</b> | Wellbore #1 |
|------------------|-------------|

| Magnetics | Model Name | Sample Date | Declination<br>(°) | Dip Angle<br>(°) | Field Strength<br>(nT) |
|-----------|------------|-------------|--------------------|------------------|------------------------|
|           | IGRF2010   | 11/28/2011  | 7.98               | 60.32            | 48,663                 |

|                |             |
|----------------|-------------|
| <b>Design:</b> | Wellbore #1 |
|----------------|-------------|

|                     |     |               |        |                          |
|---------------------|-----|---------------|--------|--------------------------|
| <b>Audit Notes:</b> |     |               |        |                          |
| <b>Version:</b>     | 1.0 | <b>Phase:</b> | ACTUAL | <b>Tie On Depth:</b> 0 0 |

| Vertical Section | Depth From (TVD)<br>(usft) | +N-S<br>(usft) | +E-W<br>(usft) | Direction<br>(°) |
|------------------|----------------------------|----------------|----------------|------------------|
|                  | 0 0                        | 0.0            | 0.0            | 356.70           |

| Survey Program |              | Date               | 12/15/2011  |                |
|----------------|--------------|--------------------|-------------|----------------|
| From<br>(usft) | To<br>(usft) | Survey (Wellbore)  | Tool Name   | Description    |
| 100.0          | 1,980.0      | Gyro (Wellbore #1) | Good_gyro   | Good Gyro      |
| 2,050.0        | 7,290.0      | MWD (Wellbore #1)  | MWD default | MWD - Standard |

| 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) |
|---------------------------------|-----------------------|-----------------|-------------|-----------------------|-------------|-------------|-------------------------|-------------------------|------------------------|-----------------------|
| Tie In @ 1980' MD / 1979.9' TVD |                       |                 |             |                       |             |             |                         |                         |                        |                       |
|                                 | 1,980.0               | 1.00            | 311.15      | 1,979.9               | 3.8         | -12.1       | 4.5                     | 0.00                    | 0.00                   | 0 00                  |
|                                 | 2,050.0               | 1.00            | 305.20      | 2,049.9               | 4.6         | -13.0       | 5.3                     | 0.15                    | 0.00                   | -8.50                 |
|                                 | 2,082.0               | 1.10            | 310.00      | 2,081.9               | 4.9         | -13.5       | 5.7                     | 0.42                    | 0.31                   | 15 00                 |
|                                 | 2,113.0               | 2.50            | 336.80      | 2,112.9               | 5.7         | -14.0       | 6.5                     | 5.15                    | 4.52                   | 86.45                 |
|                                 | 2,144.0               | 5.00            | 345.10      | 2,143.8               | 7.7         | -14.6       | 8.5                     | 8.23                    | 8.06                   | 26 77                 |
|                                 | 2,175.0               | 7.60            | 348.60      | 2,174.6               | 11.0        | -15.3       | 11.8                    | 8.47                    | 8.39                   | 11.29                 |
|                                 | 2,206.0               | 10.50           | 351.90      | 2,205.2               | 15.8        | -16.1       | 16.7                    | 9.50                    | 9.35                   | 10.65                 |
|                                 | 2,238.0               | 13.50           | 356.60      | 2,236.5               | 22.4        | -16.8       | 23.3                    | 9.85                    | 9.38                   | 14.69                 |
|                                 | 2,269.0               | 16.60           | 0 40        | 2,266.5               | 30.4        | -17.0       | 31.4                    | 10.49                   | 10.00                  | 12.26                 |

DDC  
Survey Report



|           |                            |                              |                                        |
|-----------|----------------------------|------------------------------|----------------------------------------|
| Company:  | Mewbourne Oil Co           | Local Co-ordinate Reference: | Well Pine Box 21 MD Fed Com #1H        |
| Project:  | Eddy County, New Mexico    | TVD Reference:               | WELL @ 3529.0usft (Patterson UTI #101) |
| Site:     | Section 21-20S-25E         | MD Reference:                | WELL @ 3529.0usft (Patterson UTI #101) |
| Well:     | Pine/Box 21 MD Fed Com #1H | North Reference:             | Grid                                   |
| Wellbore: | Wellbore #1                | Survey Calculation Method:   | Minimum Curvature                      |
| Design:   | Wellbore #1                | Database:                    | EDM 5000.1 Single User Db              |

| 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) |  |
| 2,300.0                        | 19.60           | 2.00        | 2,295.9               | 40.1         | -16.8        | 41.0                    | 9.81                    | 9.68                   | 5.16                  |  |
| 2,332.0                        | 22.80           | 2.10        | 2,325.8               | 51.6         | -16.3        | 52.5                    | 10.00                   | 10.00                  | 0.31                  |  |
| 2,363.0                        | 26.10           | 1.60        | 2,354.0               | 64.5         | -15.9        | 65.3                    | 10.67                   | 10.65                  | -1.61                 |  |
| 2,395.0                        | 29.10           | 0.20        | 2,382.3               | 79.3         | -15.7        | 80.0                    | 9.59                    | 9.38                   | -4.38                 |  |
| 2,426.0                        | 32.30           | 358.70      | 2,409.0               | 95.1         | -15.9        | 95.9                    | 10.61                   | 10.32                  | -4.84                 |  |
| 2,458.0                        | 35.60           | 357.80      | 2,435.5               | 113.0        | -16.4        | 113.7                   | 10.43                   | 10.31                  | -2.81                 |  |
| 2,489.0                        | 38.70           | 357.30      | 2,460.2               | 131.7        | -17.2        | 132.4                   | 10.05                   | 10.00                  | -1.61                 |  |
| 2,521.0                        | 41.60           | 356.10      | 2,484.7               | 152.3        | -18.4        | 153.1                   | 9.38                    | 9.06                   | -3.75                 |  |
| 2,552.0                        | 44.60           | 355.50      | 2,507.3               | 173.4        | -20.0        | 174.2                   | 9.77                    | 9.68                   | -1.94                 |  |
| 2,583.0                        | 47.60           | 355.80      | 2,528.8               | 195.6        | -21.7        | 196.6                   | 9.70                    | 9.68                   | 0.97                  |  |
| 2,614.0                        | 50.70           | 356.70      | 2,549.1               | 219.0        | -23.2        | 220.0                   | 10.24                   | 10.00                  | 2.90                  |  |
| Crossed Hard Line @ 2640.5' MD |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 2,640.5                        | 53.35           | 357.20      | 2,565.4               | 239.9        | -24.3        | 240.9                   | 10.11                   | 10.00                  | 1.89                  |  |
| 2,646.0                        | 53.90           | 357.30      | 2,568.6               | 244.3        | -24.5        | 245.3                   | 10.11                   | 10.00                  | 1.81                  |  |
| 2,677.0                        | 57.10           | 357.60      | 2,586.2               | 269.8        | -25.6        | 270.9                   | 10.35                   | 10.32                  | 0.97                  |  |
| 2,708.0                        | 60.30           | 357.20      | 2,602.3               | 296.3        | -26.9        | 297.4                   | 10.38                   | 10.32                  | -1.29                 |  |
| 2,740.0                        | 63.70           | 356.50      | 2,617.3               | 324.5        | -28.4        | 325.6                   | 10.80                   | 10.63                  | -2.19                 |  |
| 2,771.0                        | 66.80           | 356.00      | 2,630.3               | 352.6        | -30.2        | 353.7                   | 10.11                   | 10.00                  | -1.61                 |  |
| 2,802.0                        | 70.20           | 355.70      | 2,641.7               | 381.4        | -32.3        | 382.6                   | 11.00                   | 10.97                  | -0.97                 |  |
| 2,834.0                        | 74.20           | 355.50      | 2,651.4               | 411.7        | -34.7        | 413.0                   | 12.51                   | 12.50                  | -0.63                 |  |
| 2,866.0                        | 78.20           | 355.60      | 2,659.1               | 442.7        | -37.1        | 444.1                   | 12.50                   | 12.50                  | 0.31                  |  |
| 2,898.0                        | 80.50           | 355.80      | 2,665.0               | 474.1        | -39.4        | 475.5                   | 7.21                    | 7.19                   | 0.63                  |  |
| 2,929.0                        | 83.00           | 356.10      | 2,669.4               | 504.7        | -41.6        | 506.2                   | 8.12                    | 8.06                   | 0.97                  |  |
| 2,946.0                        | 84.70           | 356.30      | 2,671.3               | 521.5        | -42.7        | 523.1                   | 10.07                   | 10.00                  | 1.18                  |  |
| 3,047.0                        | 90.00           | 355.20      | 2,675.9               | 622.1        | -50.2        | 624.0                   | 5.36                    | 5.25                   | -1.09                 |  |
| 3,079.0                        | 89.90           | 355.60      | 2,676.0               | 654.0        | -52.8        | 656.0                   | 1.29                    | -0.31                  | 1.25                  |  |
| 3,110.0                        | 90.20           | 358.00      | 2,675.9               | 685.0        | -54.5        | 687.0                   | 7.80                    | 0.97                   | 7.74                  |  |
| 3,142.0                        | 90.40           | 358.40      | 2,675.8               | 716.9        | -55.5        | 718.9                   | 1.40                    | 0.63                   | 1.25                  |  |
| 3,174.0                        | 90.30           | 358.30      | 2,675.6               | 748.9        | -56.4        | 750.9                   | 0.44                    | -0.31                  | -0.31                 |  |
| 3,206.0                        | 90.20           | 358.00      | 2,675.4               | 780.9        | -57.5        | 782.9                   | 0.99                    | -0.31                  | -0.94                 |  |
| 3,238.0                        | 90.30           | 358.50      | 2,675.3               | 812.9        | -58.4        | 814.9                   | 1.59                    | 0.31                   | 1.56                  |  |
| 3,269.0                        | 90.10           | 358.00      | 2,675.2               | 843.9        | -59.4        | 845.9                   | 1.74                    | -0.65                  | -1.61                 |  |
| 3,301.0                        | 90.20           | 358.40      | 2,675.1               | 875.9        | -60.4        | 877.9                   | 1.29                    | 0.31                   | 1.25                  |  |
| 3,333.0                        | 90.70           | 358.70      | 2,674.8               | 907.8        | -61.2        | 909.9                   | 1.82                    | 1.56                   | 0.94                  |  |
| 3,365.0                        | 90.70           | 358.90      | 2,674.4               | 939.8        | -61.9        | 941.8                   | 0.62                    | 0.00                   | 0.63                  |  |
| 3,396.0                        | 90.50           | 359.30      | 2,674.1               | 970.8        | -62.4        | 972.8                   | 1.44                    | -0.65                  | 1.29                  |  |
| 3,460.0                        | 90.60           | 359.20      | 2,673.5               | 1,034.8      | -63.2        | 1,036.7                 | 0.22                    | 0.16                   | -0.16                 |  |
| 3,523.0                        | 90.00           | 359.90      | 2,673.2               | 1,097.8      | -63.7        | 1,099.7                 | 1.46                    | -0.95                  | 1.11                  |  |
| 3,587.0                        | 90.30           | 357.30      | 2,673.0               | 1,161.8      | -65.3        | 1,163.6                 | 4.09                    | 0.47                   | -4.06                 |  |
| 3,650.0                        | 90.00           | 356.00      | 2,672.8               | 1,224.7      | -68.9        | 1,226.6                 | 2.12                    | -0.48                  | -2.06                 |  |
| 3,713.0                        | 89.60           | 355.50      | 2,673.1               | 1,287.5      | -73.6        | 1,289.6                 | 1.02                    | -0.63                  | -0.79                 |  |
| 3,777.0                        | 90.30           | 356.70      | 2,673.1               | 1,351.4      | -78.0        | 1,353.6                 | 2.17                    | 1.09                   | 1.88                  |  |
| 3,839.0                        | 90.30           | 356.90      | 2,672.8               | 1,413.3      | -81.4        | 1,415.6                 | 0.32                    | 0.00                   | 0.32                  |  |

# DDC Survey Report



|                  |                            |                                     |                                        |
|------------------|----------------------------|-------------------------------------|----------------------------------------|
| <b>Company:</b>  | Mewbourne Oil Co           | <b>Local Co-ordinate/Reference:</b> | Well Pine Box 21 MD Fed Com #1H        |
| <b>Project:</b>  | Eddy County, New Mexico    | <b>TVD Reference:</b>               | WELL @ 3529.0usft (Patterson UTI #101) |
| <b>Site:</b>     | Section 21-20S-25E         | <b>MD Reference:</b>                | WELL @ 3529.0usft (Patterson UTI #101) |
| <b>Well:</b>     | Pine Box 21 MD Fed Com #1H | <b>North Reference:</b>             | Grid                                   |
| <b>Wellbore:</b> | Wellbore #1                | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Design:</b>   | Wellbore #1                | <b>Database:</b>                    | EDM 5000.1 Single User Db              |

| 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) |
| 3,902.0               | 90.20           | 357.50      | 2,672.5               | 1,476.2      | -84.5        | 1,478.6                 | 0.97                    | -0.16                  | 0.95                  |
| 3,966.0               | 90.00           | 357.50      | 2,672.4               | 1,540.1      | -87.3        | 1,542.6                 | 0.31                    | -0.31                  | 0.00                  |
| 4,029.0               | 89.80           | 356.50      | 2,672.5               | 1,603.0      | -90.6        | 1,605.6                 | 1.62                    | -0.32                  | -1.59                 |
| 4,092.0               | 89.50           | 356.20      | 2,672.9               | 1,665.9      | -94.6        | 1,668.6                 | 0.67                    | -0.48                  | -0.48                 |
| 4,156.0               | 90.70           | 358.20      | 2,672.8               | 1,729.8      | -97.7        | 1,732.6                 | 3.64                    | 1.88                   | 3.13                  |
| 4,219.0               | 90.70           | 358.60      | 2,672.0               | 1,792.8      | -99.5        | 1,795.6                 | 0.63                    | 0.00                   | 0.63                  |
| 4,283.0               | 90.60           | 359.20      | 2,671.3               | 1,856.8      | -100.7       | 1,859.5                 | 0.95                    | -0.16                  | 0.94                  |
| 4,346.0               | 90.50           | 359.30      | 2,670.7               | 1,919.8      | -101.5       | 1,922.4                 | 0.22                    | -0.16                  | 0.16                  |
| 4,410.0               | 89.80           | 357.70      | 2,670.5               | 1,983.8      | -103.2       | 1,986.4                 | 2.73                    | -1.09                  | -2.50                 |
| 4,474.0               | 89.50           | 358.40      | 2,670.9               | 2,047.7      | -105.4       | 2,050.4                 | 1.19                    | -0.47                  | 1.09                  |
| 4,537.0               | 89.20           | 358.40      | 2,671.6               | 2,110.7      | -107.1       | 2,113.4                 | 0.48                    | -0.48                  | 0.00                  |
| 4,601.0               | 89.70           | 356.70      | 2,672.2               | 2,174.6      | -109.9       | 2,177.3                 | 2.77                    | 0.78                   | -2.66                 |
| 4,665.0               | 90.60           | 355.80      | 2,672.1               | 2,238.5      | -114.1       | 2,241.3                 | 1.99                    | 1.41                   | -1.41                 |
| 4,729.0               | 90.30           | 355.80      | 2,671.6               | 2,302.3      | -118.8       | 2,305.3                 | 0.47                    | -0.47                  | 0.00                  |
| 4,792.0               | 89.70           | 355.00      | 2,671.6               | 2,365.1      | -123.8       | 2,368.3                 | 1.59                    | -0.95                  | -1.27                 |
| 4,856.0               | 90.70           | 354.80      | 2,671.4               | 2,428.8      | -129.5       | 2,432.3                 | 1.59                    | 1.56                   | -0.31                 |
| 4,920.0               | 90.60           | 354.40      | 2,670.6               | 2,492.6      | -135.5       | 2,496.2                 | 0.64                    | -0.16                  | -0.63                 |
| 4,984.0               | 90.20           | 354.40      | 2,670.2               | 2,556.3      | -141.8       | 2,560.2                 | 0.63                    | -0.63                  | 0.00                  |
| 5,047.0               | 89.80           | 354.60      | 2,670.2               | 2,619.0      | -147.8       | 2,623.1                 | 0.71                    | -0.63                  | 0.32                  |
| 5,111.0               | 89.30           | 354.80      | 2,670.7               | 2,682.7      | -153.7       | 2,687.1                 | 0.84                    | -0.78                  | 0.31                  |
| 5,174.0               | 90.70           | 354.40      | 2,670.7               | 2,745.4      | -159.6       | 2,750.0                 | 2.31                    | 2.22                   | -0.63                 |
| 5,238.0               | 90.70           | 354.40      | 2,669.9               | 2,809.1      | -165.9       | 2,814.0                 | 0.00                    | 0.00                   | 0.00                  |
| 5,301.0               | 90.20           | 354.40      | 2,669.4               | 2,871.8      | -172.0       | 2,876.9                 | 0.79                    | -0.79                  | 0.00                  |
| 5,364.0               | 89.60           | 354.50      | 2,669.5               | 2,934.5      | -178.1       | 2,939.9                 | 0.97                    | -0.95                  | 0.16                  |
| 5,426.0               | 91.90           | 354.40      | 2,668.7               | 2,996.2      | -184.1       | 3,001.8                 | 3.71                    | 3.71                   | -0.16                 |
| 5,487.0               | 92.10           | 354.10      | 2,666.6               | 3,056.9      | -190.2       | 3,062.7                 | 0.59                    | 0.33                   | -0.49                 |
| 5,549.0               | 91.70           | 355.80      | 2,664.5               | 3,118.6      | -195.7       | 3,124.7                 | 2.82                    | -0.65                  | 2.74                  |
| 5,609.0               | 90.70           | 357.10      | 2,663.3               | 3,178.4      | -199.4       | 3,184.7                 | 2.73                    | -1.67                  | 2.17                  |
| 5,668.0               | 90.30           | 357.00      | 2,662.7               | 3,237.4      | -202.4       | 3,243.6                 | 0.70                    | -0.68                  | -0.17                 |
| 5,729.0               | 90.20           | 356.90      | 2,662.5               | 3,298.3      | -205.7       | 3,304.6                 | 0.23                    | -0.16                  | -0.16                 |
| 5,788.0               | 90.20           | 356.70      | 2,662.3               | 3,357.2      | -209.0       | 3,363.6                 | 0.34                    | 0.00                   | -0.34                 |
| 5,848.0               | 89.80           | 358.20      | 2,662.3               | 3,417.1      | -211.6       | 3,423.6                 | 2.59                    | -0.67                  | 2.50                  |
| 5,908.0               | 89.70           | 358.10      | 2,662.5               | 3,477.1      | -213.6       | 3,483.6                 | 0.24                    | -0.17                  | -0.17                 |
| 5,969.0               | 89.40           | 357.90      | 2,663.0               | 3,538.1      | -215.7       | 3,544.6                 | 0.59                    | -0.49                  | -0.33                 |
| 6,033.0               | 89.40           | 357.50      | 2,663.7               | 3,602.0      | -218.3       | 3,608.6                 | 0.62                    | 0.00                   | -0.63                 |
| 6,096.0               | 89.40           | 357.60      | 2,664.3               | 3,664.9      | -221.0       | 3,671.6                 | 0.16                    | 0.00                   | 0.16                  |
| 6,160.0               | 89.50           | 357.60      | 2,665.0               | 3,728.9      | -223.6       | 3,735.6                 | 0.16                    | 0.16                   | 0.00                  |
| 6,223.0               | 89.50           | 356.30      | 2,665.5               | 3,791.8      | -227.0       | 3,798.6                 | 2.06                    | 0.00                   | -2.06                 |
| 6,287.0               | 89.40           | 356.00      | 2,666.1               | 3,855.6      | -231.3       | 3,862.6                 | 0.49                    | -0.16                  | -0.47                 |
| 6,351.0               | 89.30           | 355.60      | 2,666.9               | 3,919.5      | -236.0       | 3,926.5                 | 0.64                    | -0.16                  | -0.63                 |
| 6,414.0               | 90.60           | 356.30      | 2,666.9               | 3,982.3      | -240.4       | 3,989.5                 | 2.34                    | 2.06                   | 1.11                  |
| 6,478.0               | 90.70           | 356.50      | 2,666.2               | 4,046.2      | -244.5       | 4,053.5                 | 0.35                    | 0.16                   | 0.31                  |
| 6,542.0               | 90.50           | 356.40      | 2,665.5               | 4,110.0      | -248.4       | 4,117.5                 | 0.35                    | -0.31                  | -0.16                 |
| 6,605.0               | 90.20           | 355.50      | 2,665.1               | 4,172.9      | -252.9       | 4,180.5                 | 1.51                    | -0.48                  | -1.43                 |

# DDC Survey Report



|                  |                            |                                     |                                        |
|------------------|----------------------------|-------------------------------------|----------------------------------------|
| <b>Company:</b>  | Mewbourne Oil Co           | <b>Local Co-ordinate Reference:</b> | Well Pine Box 21 MD Fed Com #1H        |
| <b>Project:</b>  | Eddy County, New Mexico    | <b>TVD Reference:</b>               | WELL @ 3529.0usft (Patterson UTI #101) |
| <b>Site:</b>     | Section 21-20S-25E         | <b>MD Reference:</b>                | WELL @ 3529.0usft (Patterson UTI #101) |
| <b>Well:</b>     | Pine Box 21 MD Fed Com #1H | <b>North Reference:</b>             | Grid                                   |
| <b>Wellbore:</b> | Wellbore #1                | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Design:</b>   | Wellbore #1                | <b>Database:</b>                    | EDM 5000 1 Single User Db              |

## 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) |
|------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 6,669.0                            | 90.70           | 357.00      | 2,664.6               | 4,236.7      | -257.0       | 4,244.5                 | 2.47                    | 0.78                   | 2.34                  |
| 6,732.0                            | 90.60           | 356.40      | 2,663.9               | 4,299.6      | -260.7       | 4,307.5                 | 0.97                    | -0.16                  | -0.95                 |
| 6,797.0                            | 90.10           | 355.70      | 2,663.5               | 4,364.5      | -265.2       | 4,372.5                 | 1.32                    | -0.77                  | -1.08                 |
| 6,860.0                            | 89.90           | 355.50      | 2,663.5               | 4,427.3      | -270.0       | 4,435.5                 | 0.45                    | -0.32                  | -0.32                 |
| 6,923.0                            | 89.60           | 354.50      | 2,663.8               | 4,490.1      | -275.5       | 4,498.5                 | 1.66                    | -0.48                  | -1.59                 |
| 6,986.0                            | 89.70           | 354.60      | 2,664.2               | 4,552.8      | -281.5       | 4,561.4                 | 0.22                    | 0.16                   | 0.16                  |
| 7,050.0                            | 89.20           | 354.80      | 2,664.8               | 4,616.5      | -287.4       | 4,625.4                 | 0.84                    | -0.78                  | 0.31                  |
| 7,113.0                            | 89.20           | 354.40      | 2,665.7               | 4,679.2      | -293.3       | 4,688.3                 | 0.63                    | 0.00                   | -0.63                 |
| 7,177.0                            | 90.40           | 355.80      | 2,665.9               | 4,743.0      | -298.8       | 4,752.3                 | 2.88                    | 1.88                   | 2.19                  |
| 7,246.0                            | 90.30           | 355.80      | 2,665.5               | 4,811.8      | -303.8       | 4,821.3                 | 0.14                    | -0.14                  | 0.00                  |
| <b>TD @ 7290' MD / 2665.2' TVD</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 7,290.0                            | 90.30           | 355.80      | 2,665.2               | 4,855.7      | -307.0       | 4,865.3                 | 0.00                    | 0.00                   | 0.00                  |

## Survey Annotations

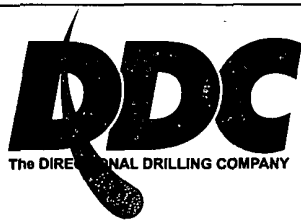
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates |              | Comment                         |
|-----------------------|-----------------------|-------------------|--------------|---------------------------------|
|                       |                       | +N/-S (usft)      | +E/-W (usft) |                                 |
| 1,980.0               | 1,979.9               | 3.8               | -12.1        | Tie In @ 1980' MD / 1979.9' TVD |
| 2,640.5               | 2,565.4               | 239.9             | -24.3        | Crossed Hard Line @ 2640.5' MD  |
| 7,290.0               | 2,665.2               | 4,855.7           | -307.0       | TD @ 7290' MD / 2665.2' TVD     |

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_

Company Name: Mewbourne Oil Co  
Pine Box 21 MD Fed Com #1H  
Eddy County, New Mexico  
Rig: Patterson UTI #101  
Created By: Dina Chance  
Date: 12/15/2011

Pine Box 21 MD Fed Com #1H  
Eddy County, New Mexico  
Q110334 & WT-11695

Mewbourne Oil Company



Azimuths to Grid North

Magnetic North: 8.06°

Magnetic Field

Strength: 48663.2snT

Dip Angle: 60.32°

Date: 11/28/2011

Model: IGRF2010

#### WELL DETAILS Pine Box 21 MD Fed Com #1H

| Ground Level |      | 3510.0                            |           |
|--------------|------|-----------------------------------|-----------|
| +N-S         | +E-W | Northing                          | Eastings  |
| 0.0          | 0.0  | 564582.28                         | 450900.34 |
|              |      | 32° 33' 7.343 N 104° 29' 44.178 W |           |

#### PROJECT DETAILS Eddy County, New Mexico

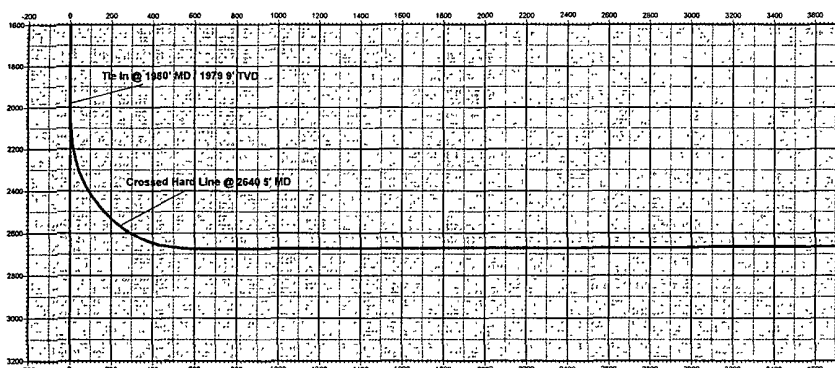
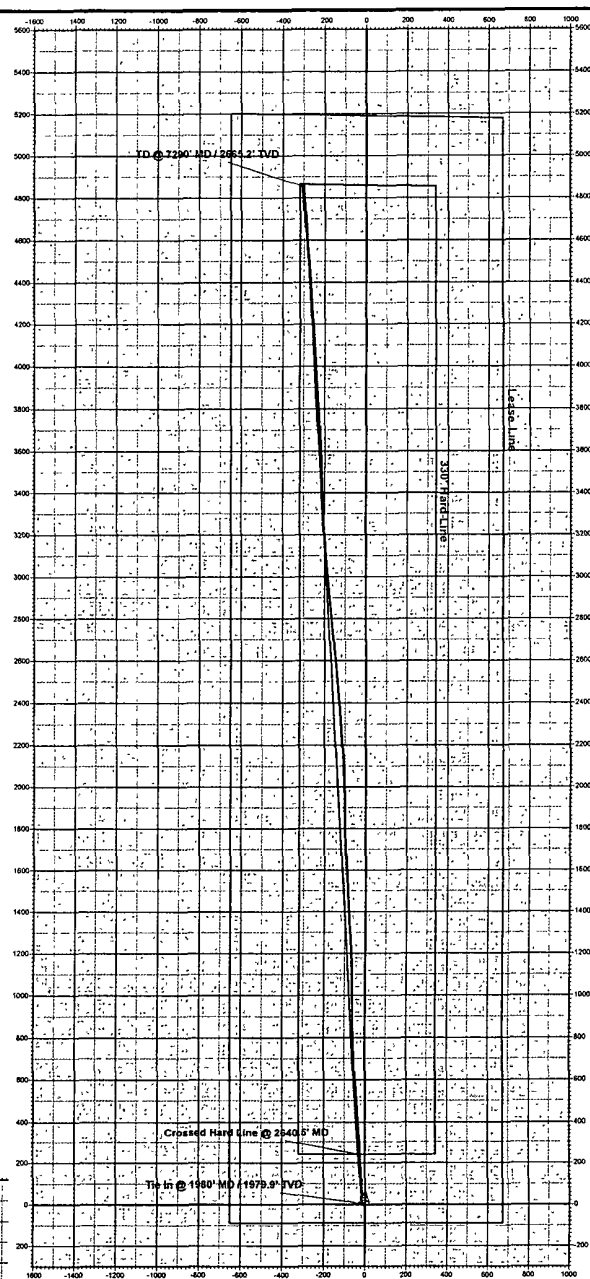
Geodetic System: US State Plane 1927 (Exact solution)  
Datum: NAD 1927 (NADCON CONUS)  
Ellipsoid: Clarke 1866  
Zone: New Mexico East 3001  
System Datum: Mean Sea Level

#### DESIGN TARGET DETAILS

| Name                               | TVD    | +N-S   | +E-W      | Northing  | Eastings         | Latitude          | Longitude |
|------------------------------------|--------|--------|-----------|-----------|------------------|-------------------|-----------|
| PBHL Pine Box 21 MD Fed Com 2664.0 | 4863.2 | -298.2 | 563445.46 | 449702.12 | 32° 33' 55.464 N | 104° 29' 47.749 W |           |
| - plan hits target center          |        |        |           |           |                  |                   |           |

#### ANNOTATIONS

| MD     | Inc   | Azi    | TVD    | +N-S   | +E-W   | V-Sect | Departure | Annotation                      |
|--------|-------|--------|--------|--------|--------|--------|-----------|---------------------------------|
| 1980.0 | 1.00  | 311.15 | 1979.9 | 3.8    | -12.1  | 3.9    | 17.4      | Tie In @ 1980' MD / 1979.9' TVD |
| 2640.5 | 63.35 | 357.20 | 2565.4 | 238.8  | -24.3  | 240.1  | 255.0     | Crossed Hard Line @ 2640.5' MD  |
| 7290.0 | 90.30 | 355.90 | 2665.2 | 4855.7 | -307.0 | 4859.2 | 4880.8    | TD @ 7290 MD / 2665.2' TVD      |



Vertical Section at 356.49° (200 usft/in)



Do It Once  
Do It Right

20-Stage 4-1/2" StackFRAC® HD

Mr Mickey Young

12/16/2011

Patterson 101

## StackFRAC® HD

Multi-Stage Fracturing System from



Do It Once  
Do It Right

Prepared for:

**Mewbourne Oil Company**

Mr. Mickey Young

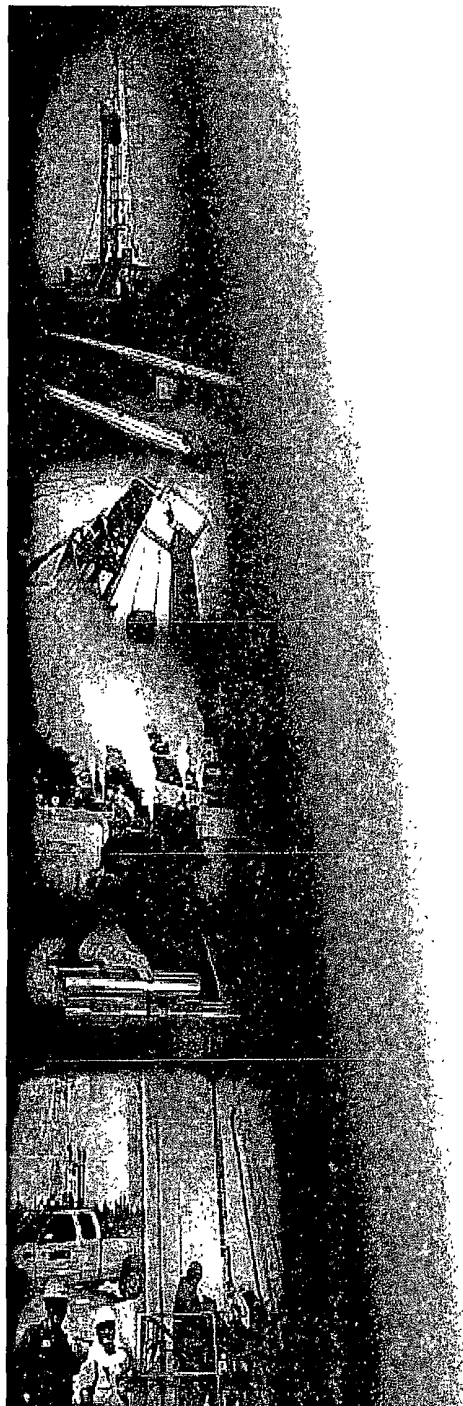
**Pine Box -21- "MD" Fed Com #1H**

Eddy County, NM

20-Stage 4-1/2" StackFRAC® HD

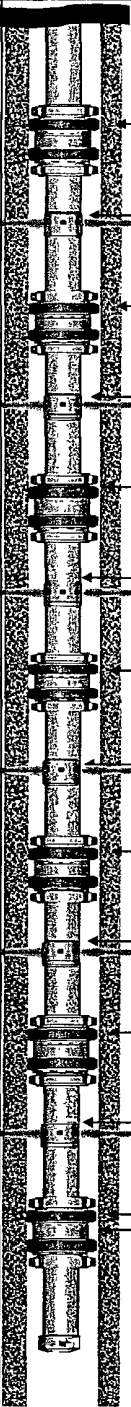
Completion

4-1/2" 11.60# L-80 LTC



|  |                           | <i>Do It Once.<br/>Do It Right.</i>                                                                                                                                                                                                                                                                                                                                                 |        | <b>Confidential Information - not to be disclosed<br/>outside Mewbourne Oil Company</b> |        | <b>Final<br/>Completion</b>             |  |
|-----------------------------------------------------------------------------------|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------------------------------------------------------------------------------------|--------|-----------------------------------------|--|
| Prepared for<br><b>Mr. Mickey Young</b>                                           |                           | Company<br><b>Mewbourne Oil Company</b>                                                                                                                                                                                                                                                                                                                                             |        | Date<br><b>16-Dec-11</b>                                                                |        |                                         |  |
| Well Name<br><b>Pine Box -21- "MD" Fed Com #1H</b>                                |                           | Type of Installation<br><b>20-Stage 4-1/2" StackFRAC® HD</b>                                                                                                                                                                                                                                                                                                                        |        | Location<br><b>Eddy County, NM</b>                                                      |        |                                         |  |
| Depth                                                                             | Drawing                   | Description                                                                                                                                                                                                                                                                                                                                                                         | OD(in) | ID(in)                                                                                  | Length |                                         |  |
| REV_<br>TD<br>7,290                                                               |                           |                                                                                                                                                                                                                                                                                                                                                                                     |        |                                                                                         |        | <b>Page 1 of 3</b>                      |  |
| TVD<br>2,665                                                                      |                           |                                                                                                                                                                                                                                                                                                                                                                                     |        |                                                                                         |        |                                         |  |
| KOP<br>2,175                                                                      |                           |                                                                                                                                                                                                                                                                                                                                                                                     |        |                                                                                         |        |                                         |  |
| EOC<br>3,047                                                                      |                           |                                                                                                                                                                                                                                                                                                                                                                                     |        |                                                                                         |        |                                         |  |
| TOL<br>2,770                                                                      |                           |                                                                                                                                                                                                                                                                                                                                                                                     |        |                                                                                         |        |                                         |  |
| 106bbls                                                                           |                           |                                                                                                                                                                                                                                                                                                                                                                                     |        |                                                                                         |        |                                         |  |
| 7" Shoe<br>2,998                                                                  |                           |                                                                                                                                                                                                                                                                                                                                                                                     |        |                                                                                         |        |                                         |  |
| Stage 20<br>3,037<br>110bbls                                                      |                           | <b>***Drillable FracPORT's to be shipped without handling pups***</b><br><br>Latched Seal Assembly<br>7" 23-32 ppf x 3.875" Lower Bore x 4.75" Upper Bore SF Liner Hanger Packer<br>PN: 108425-000004 (Shear Pins: 2 @ 482 plus 1 @ 241 : 1,205 psi setting pressure)<br>SF Bottom Guide S# SNU0006745<br><br>7" 26# L-80 LT&C Casing<br><br>4-1/2" 11.60# L-80 LTC LINER JOINTS: 6 | 5.875" | 4.750                                                                                   | 3.28   |                                         |  |
|                                                                                   |                           |                                                                                                                                                                                                                                                                                                                                                                                     | 5.850" | 3.875                                                                                   | 2.51   |                                         |  |
|                                                                                   |                           |                                                                                                                                                                                                                                                                                                                                                                                     |        | 3.850                                                                                   | 0.95   |                                         |  |
|                                                                                   |                           |                                                                                                                                                                                                                                                                                                                                                                                     |        |                                                                                         | 3.10   |                                         |  |
|                                                                                   |                           |                                                                                                                                                                                                                                                                                                                                                                                     | 4.500" | 4.000                                                                                   | 257.81 |                                         |  |
|                                                                                   |                           | Packers Plus 4-1/2" Drillable FracPORT™ with 3.625" Seat for 3.750" High Pressure Ball<br>PN: 121332-000024 (5 shear pins at 314 psi each: 1,570 psi opening pressure)S# EM1000388<br>4-1/2" 11.60# L-80 LTC LINER JOINTS: 2                                                                                                                                                        | 5.630" | 3.625                                                                                   | 2.65   |                                         |  |
|                                                                                   |                           |                                                                                                                                                                                                                                                                                                                                                                                     | 4.500" | 4.000                                                                                   | 85.02  |                                         |  |
|                                                                                   |                           | 6' x 4-1/2" 11.60# L-80 LTC Pup Joint                                                                                                                                                                                                                                                                                                                                               | 4.500" | 4.000                                                                                   | 6.09   |                                         |  |
|                                                                                   |                           | Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer<br>PN: 124929-000004 (4 shear pins at 522 psi each: 2,088 psi setting pressure)S# EA3012481<br>3' x 4-1/2" 11.60# L-80 LTC Pup Joint                                                                                                                                                           | 5.750" | 3.875                                                                                   | 5.25   |                                         |  |
|                                                                                   |                           | 4-1/2" 11.60# L-80 LTC LINER JOINTS: 2                                                                                                                                                                                                                                                                                                                                              | 4.500" | 4.000                                                                                   | 3.08   |                                         |  |
|                                                                                   |                           |                                                                                                                                                                                                                                                                                                                                                                                     | 4.500" | 4.000                                                                                   | 85.30  |                                         |  |
|                                                                                   |                           |                                                                                                                                                                                                                                                                                                                                                                                     | 5.630" | 3.500                                                                                   | 2.65   |                                         |  |
|                                                                                   |                           | Packers Plus 4-1/2" Drillable FracPORT™ with 3.500" Seat for 3.625" High Pressure Ball<br>PN: 121332-000023 (5 shear pins at 314 psi each: 1,570 psi opening pressure)S# EM1013250<br>4-1/2" 11.60# L-80 LTC LINER JOINTS: 3                                                                                                                                                        | 4.500" | 4.000                                                                                   | 127.24 |                                         |  |
|                                                                                   |                           |                                                                                                                                                                                                                                                                                                                                                                                     | 4.500" | 4.000                                                                                   | 6.09   |                                         |  |
|                                                                                   |                           | 6' x 4-1/2" 11.60# L-80 LTC Pup Joint                                                                                                                                                                                                                                                                                                                                               | 5.750" | 3.875                                                                                   | 5.25   |                                         |  |
|                                                                                   |                           | Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer<br>PN: 124929-000004 (4 shear pins at 522 psi each: 2,088 psi setting pressure)S# EA3012475<br>3' x 4-1/2" 11.60# L-80 LTC Pup Joint                                                                                                                                                           | 4.500" | 4.000                                                                                   | 3.10   |                                         |  |
|                                                                                   |                           | 4-1/2" 11.60# L-80 LTC LINER JOINTS: 2                                                                                                                                                                                                                                                                                                                                              | 4.500" | 4.000                                                                                   | 85.37  |                                         |  |
|                                                                                   |                           |                                                                                                                                                                                                                                                                                                                                                                                     | 5.630" | 3.375                                                                                   | 2.65   |                                         |  |
|                                                                                   |                           | Packers Plus 4-1/2" Drillable FracPORT™ with 3.375" Seat for 3.500" High Pressure Ball<br>PN: 108481-000020 (5 shear pins at 315 psi each: 1,575 psi opening pressure)S# EM0040804<br>4-1/2" 11.60# L-80 LTC LINER JOINTS: 2                                                                                                                                                        | 4.500" | 4.000                                                                                   | 85.71  |                                         |  |
|                                                                                   |                           |                                                                                                                                                                                                                                                                                                                                                                                     | 4.500" | 4.000                                                                                   | 6.08   |                                         |  |
|                                                                                   |                           | 6' x 4-1/2" 11.60# L-80 LTC Pup Joint                                                                                                                                                                                                                                                                                                                                               | 5.750" | 3.875                                                                                   | 5.25   |                                         |  |
|                                                                                   |                           | Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer<br>PN: 124929-000004 (4 shear pins at 522 psi each: 2,088 psi setting pressure)S# EA3014437<br>3' x 4-1/2" 11.60# L-80 LTC Pup Joint                                                                                                                                                           | 4.500" | 4.000                                                                                   | 3.12   |                                         |  |
|                                                                                   |                           | 4-1/2" 11.60# L-80 LTC LINER JOINTS: 2                                                                                                                                                                                                                                                                                                                                              | 4.500" | 4.000                                                                                   | 85.70  |                                         |  |
|                                                                                   |                           |                                                                                                                                                                                                                                                                                                                                                                                     | 5.630" | 3.250                                                                                   | 2.65   |                                         |  |
|                                                                                   |                           | Packers Plus 4-1/2" Drillable FracPORT™ with 3.250" Seat for 3.375" High Pressure Ball<br>PN: 108481-000019 (5 shear pins at 315 psi each: 1,575 psi opening pressure)S# EM0040802<br>4-1/2" 11.60# L-80 LTC LINER JOINTS: 2                                                                                                                                                        | 4.500" | 4.000                                                                                   | 85.69  |                                         |  |
|                                                                                   |                           |                                                                                                                                                                                                                                                                                                                                                                                     | 4.500" | 4.000                                                                                   | 6.09   |                                         |  |
|                                                                                   |                           | 6' x 4-1/2" 11.60# L-80 LTC Pup Joint                                                                                                                                                                                                                                                                                                                                               | 5.750" | 3.875                                                                                   | 5.25   |                                         |  |
|                                                                                   |                           | Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer<br>PN: 124929-000004 (4 shear pins at 522 psi each: 2,088 psi setting pressure)S# EA3014436<br>3' x 4-1/2" 11.60# L-80 LTC Pup Joint                                                                                                                                                           | 4.500" | 4.000                                                                                   | 3.12   |                                         |  |
|                                                                                   |                           | 4-1/2" 11.60# L-80 LTC LINER JOINTS: 3                                                                                                                                                                                                                                                                                                                                              | 4.500" | 4.000                                                                                   | 128.71 |                                         |  |
|                                                                                   |                           |                                                                                                                                                                                                                                                                                                                                                                                     | 5.630" | 3.125                                                                                   | 2.65   |                                         |  |
|                                                                                   |                           | Packers Plus 4-1/2" Drillable FracPORT™ with 3.125" Seat for 3.250" High Pressure Ball<br>PN: 108481-000018 (5 shear pins at 315 psi each: 1,575 psi opening pressure)S# EM0040798<br>4-1/2" 11.60# L-80 LTC LINER JOINTS: 2                                                                                                                                                        | 4.500" | 4.000                                                                                   | 85.49  |                                         |  |
|                                                                                   |                           |                                                                                                                                                                                                                                                                                                                                                                                     | 4.500" | 4.000                                                                                   | 5.95   |                                         |  |
|                                                                                   |                           | 6' x 4-1/2" 11.60# L-80 LTC x BTC Pup Joint                                                                                                                                                                                                                                                                                                                                         | 5.750" | 3.875                                                                                   | 5.18   |                                         |  |
|                                                                                   |                           | Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer<br>PN: 124929-000003 (4 shear pins at 522 psi each: 2,088 psi setting pressure)S# EA2012564<br>3' x 4-1/2" 11.60# L-80 BTC x LTC Pup Joint                                                                                                                                                     | 4.500" | 4.000                                                                                   | 3.12   |                                         |  |
|                                                                                   |                           |                                                                                                                                                                                                                                                                                                                                                                                     |        |                                                                                         |        |                                         |  |
| Service Center<br>Midland, TX                                                     | Telephone<br>432-563-8024 | Contact<br>Scott Mabry                                                                                                                                                                                                                                                                                                                                                              |        |                                                                                         |        | Telephone<br>Chad Williams 405-255-3223 |  |

|  |         | Do It Once.<br>Do It Right.                                                              |                                                   | Confidential Information - not to be disclosed<br>outside Mewbourne Oil Company |        | <b>Final<br/>Completion</b> |  |
|-----------------------------------------------------------------------------------|---------|------------------------------------------------------------------------------------------|---------------------------------------------------|---------------------------------------------------------------------------------|--------|-----------------------------|--|
| Prepared for                                                                      |         | Company                                                                                  |                                                   | Date                                                                            |        |                             |  |
| Mr. Mickey Young                                                                  |         | Mewbourne Oil Company                                                                    |                                                   | 16-Dec-11                                                                       |        |                             |  |
| Well Name                                                                         |         | Type of Installation                                                                     |                                                   | Location                                                                        |        |                             |  |
| Pine Box -21- "MD" Fed Com #1H                                                    |         | 20-Stage 4-1/2" StackFRAC® HD                                                            |                                                   | Eddy County, NM                                                                 |        |                             |  |
| Depth                                                                             | Drawing | Description                                                                              | OD(in)                                            | ID(in)                                                                          | Length |                             |  |
| REV_                                                                              |         |                                                                                          | <div style="text-align: right;">Page 2 of 3</div> |                                                                                 |        |                             |  |
| Stage 15                                                                          |         | 4-1/2" 11.60# L-80 LTC LINER JOINTS: 2                                                   | 4 500"                                            | 4 000                                                                           | 84 63  |                             |  |
| 4,062                                                                             |         | Packers Plus 4-1/2" Drillable FracPORT™ with 3.000" Seat for 3.125" High Pressure Ball   | 5 630"                                            | 3.000                                                                           | 2.65   |                             |  |
| 126bbls                                                                           |         | PN: 108481-000017 (5 shear pins at 315 psi each: 1,575 psi opening pressure)S# EM0043424 |                                                   | 3.720                                                                           |        |                             |  |
|                                                                                   |         | 4-1/2" 11.60# L-80 LTC LINER JOINTS: 4                                                   | 4 500"                                            | 4.000                                                                           | 169 57 |                             |  |
|                                                                                   |         | 6' x 4-1/2" 11.60# L-80 LTC x BTC Pup Joint                                              | 4 500"                                            | 4.000                                                                           | 5 93   |                             |  |
|                                                                                   |         | Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer     | 5 750"                                            | 3.875                                                                           | 5 18   |                             |  |
|                                                                                   |         | PN: 124929-000003 (4 shear pins at 522 psi each: 2,088 psi setting pressure)S# EA2012393 |                                                   |                                                                                 |        |                             |  |
|                                                                                   |         | 3' x 4-1/2" 11 60# L-80 BTC x LTC Pup Joint                                              | 4 500"                                            | 4 000                                                                           | 3 08   |                             |  |
|                                                                                   |         | 4-1/2" 11.60# L-80 LTC LINER JOINTS: 4                                                   | 4 500"                                            | 4.000                                                                           | 170.25 |                             |  |
| Stage 14                                                                          |         | Packers Plus 4-1/2" Drillable FracPORT™ with 2.875" Seat for 3.000" High Pressure Ball   | 5 630"                                            | 2.875                                                                           | 2 65   |                             |  |
| 4,418                                                                             |         | PN: 108481-000016 (5 shear pins at 315 psi each: 1,575 psi opening pressure)S# EM0043184 |                                                   | 3.720                                                                           |        |                             |  |
| 131bbls                                                                           |         | 4-1/2" 11.60# L-80 LTC LINER JOINTS: 2                                                   | 4 500"                                            | 4.000                                                                           | 85 01  |                             |  |
|                                                                                   |         | 6' x 4-1/2" 11 60# L-80 LTC x BTC Pup Joint                                              | 4 500"                                            | 4.000                                                                           | 5 94   |                             |  |
|                                                                                   |         | Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer     | 5 750"                                            | 3.875                                                                           | 5 18   |                             |  |
|                                                                                   |         | PN: 124929-000003 (4 shear pins at 522 psi each: 2,088 psi setting pressure)S# EA2012563 |                                                   |                                                                                 |        |                             |  |
|                                                                                   |         | 3' x 4-1/2" 11.60# L-80 BTC x LTC Pup Joint                                              | 4 500"                                            | 4.000                                                                           | 3 10   |                             |  |
|                                                                                   |         | 4-1/2" 11.60# L-80 LTC LINER JOINTS: 2                                                   | 4 500"                                            | 4.000                                                                           | 85 20  |                             |  |
| Stage 13                                                                          |         | Packers Plus 4-1/2" Drillable FracPORT™ with 2.750" Seat for 2.875" High Pressure Ball   | 5 630"                                            | 2.750                                                                           | 2 65   |                             |  |
| 4,605                                                                             |         | PN: 108481-000015 (5 shear pins at 315 psi each: 1,575 psi opening pressure)S# EM0043418 |                                                   | 3.720                                                                           |        |                             |  |
| 134bbls                                                                           |         | 4-1/2" 11.60# L-80 LTC LINER JOINTS: 2                                                   | 4 500"                                            | 4 000                                                                           | 84 91  |                             |  |
|                                                                                   |         | 6' x 4-1/2" 11.60# L-80 LTC x BTC Pup Joint                                              | 4 500"                                            | 4 000                                                                           | 5 95   |                             |  |
|                                                                                   |         | Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer     | 5 750"                                            | 3.875                                                                           | 5 18   |                             |  |
|                                                                                   |         | PN: 124929-000003 (4 shear pins at 522 psi each: 2,088 psi setting pressure)S# EA2012562 |                                                   |                                                                                 |        |                             |  |
|                                                                                   |         | 3' x 4-1/2" 11 60# L-80 BTC x LTC Pup Joint                                              | 4 500"                                            | 4 000                                                                           | 3 11   |                             |  |
|                                                                                   |         | 4-1/2" 11.60# L-80 LTC LINER JOINTS: 3                                                   | 4 500"                                            | 4 000                                                                           | 127 87 |                             |  |
| Stage 12                                                                          |         | Packers Plus 4-1/2" Drillable FracPORT™ with 2.625" Seat for 2.750" High Pressure Ball   | 5 630"                                            | 2.625                                                                           | 2 65   |                             |  |
| 4,835                                                                             |         | PN: 108481-000014 (5 shear pins at 315 psi each: 1,575 psi opening pressure)S# EM0040773 |                                                   | 3.720                                                                           |        |                             |  |
| 138bbls                                                                           |         | 4-1/2" 11.60# L-80 LTC LINER JOINTS: 2                                                   | 4 500"                                            | 4 000                                                                           | 85 35  |                             |  |
|                                                                                   |         | 6' x 4-1/2" 11 60# L-80 LTC x BTC Pup Joint                                              | 4 500"                                            | 4.000                                                                           | 5 94   |                             |  |
|                                                                                   |         | Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer     | 5 750"                                            | 3.875                                                                           | 5 18   |                             |  |
|                                                                                   |         | PN: 124929-000003 (4 shear pins at 522 psi each: 2,088 psi setting pressure)S# EA2012561 |                                                   |                                                                                 |        |                             |  |
|                                                                                   |         | 3' x 4-1/2" 11.60# L-80 BTC x LTC Pup Joint                                              | 4 500"                                            | 4.000                                                                           | 3 14   |                             |  |
|                                                                                   |         | 4-1/2" 11.60# L-80 LTC LINER JOINTS: 3                                                   | 4 500"                                            | 4.000                                                                           | 127 92 |                             |  |
| Stage 11                                                                          |         | Packers Plus 4-1/2" Drillable FracPORT™ with 2.500" Seat for 2.625" High Pressure Ball   | 5 630"                                            | 2.500                                                                           | 2 65   |                             |  |
| 5,065                                                                             |         | PN: 108481-000013 (5 shear pins at 315 psi each: 1,575 psi opening pressure)S# EM0040520 |                                                   | 3.720                                                                           |        |                             |  |
| 141bbls                                                                           |         | 4-1/2" 11.60# L-80 LTC LINER JOINTS: 2                                                   | 4 500"                                            | 4.000                                                                           | 85.09  |                             |  |
|                                                                                   |         | 6' x 4-1/2" 11.60# L-80 LTC x BTC Pup Joint                                              | 4 500"                                            | 4.000                                                                           | 5 90   |                             |  |
|                                                                                   |         | Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer     | 5 750"                                            | 3.875                                                                           | 5 18   |                             |  |
|                                                                                   |         | PN: 124929-000003 (4 shear pins at 522 psi each: 2,088 psi setting pressure)S# EA2012406 |                                                   |                                                                                 |        |                             |  |
|                                                                                   |         | 3' x 4-1/2" 11 60# L-80 BTC x LTC Pup Joint                                              | 4 500"                                            | 4 000                                                                           | 3 11   |                             |  |
|                                                                                   |         | 4-1/2" 11.60# L-80 LTC LINER JOINTS: 2                                                   | 4 500"                                            | 4.000                                                                           | 85.31  |                             |  |
| Stage 10                                                                          |         | Packers Plus 4-1/2" Drillable FracPORT™ with 2.375" Seat for 2.500" High Pressure Ball   | 5 630"                                            | 2.375                                                                           | 2 65   |                             |  |
| 5,252                                                                             |         | PN: 108481-000012 (5 shear pins at 315 psi each: 1,575 psi opening pressure)S# EM0040514 |                                                   | 3.720                                                                           |        |                             |  |
| 144bbls                                                                           |         | 4-1/2" 11.60# L-80 LTC LINER JOINTS: 3                                                   | 4 500"                                            | 4.000                                                                           | 128.02 |                             |  |
|                                                                                   |         | 6' x 4-1/2" 11 60# L-80 LTC x BTC Pup Joint                                              | 4 500"                                            | 4.000                                                                           | 5 96   |                             |  |
|                                                                                   |         | Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer     | 5 750"                                            | 3.875                                                                           | 5 18   |                             |  |
|                                                                                   |         | PN: 124929-000003 (4 shear pins at 522 psi each: 2,088 psi setting pressure)S# EA2012391 |                                                   |                                                                                 |        |                             |  |
|                                                                                   |         | 3' x 4-1/2" 11.60# L-80 BTC x LTC Pup Joint                                              | 4 500"                                            | 4.000                                                                           | 3 09   |                             |  |
|                                                                                   |         | 4-1/2" 11.60# L-80 LTC LINER JOINTS: 2                                                   | 4 500"                                            | 4.000                                                                           | 82 01  |                             |  |
| Stage 9                                                                           |         | Packers Plus 4-1/2" Drillable FracPORT™ with 2.250" Seat for 2.375" High Pressure Ball   | 5 630"                                            | 2.250                                                                           | 2 65   |                             |  |
| 5,479                                                                             |         | PN: 108481-000011 (5 shear pins at 315 psi each: 1,575 psi opening pressure)S# EM0036937 |                                                   | 3.720                                                                           |        |                             |  |
| 147bbls                                                                           |         | 4-1/2" 11.60# L-80 LTC LINER JOINTS: 2                                                   | 4 500"                                            | 4 000                                                                           | 85.28  |                             |  |
|                                                                                   |         | 6' x 4-1/2" 11.60# L-80 LTC x BTC Pup Joint                                              | 4 500"                                            | 4.000                                                                           | 5 94   |                             |  |
|                                                                                   |         | Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer     | 5 750"                                            | 3.875                                                                           | 5 25   |                             |  |
|                                                                                   |         | PN: 124929-000003 (4 shear pins at 522 psi each: 2,088 psi setting pressure)S# EA2012397 |                                                   |                                                                                 |        |                             |  |
|                                                                                   |         | 3' x 4-1/2" 11 60# L-80 BTC x LTC Pup Joint                                              | 4 500"                                            | 4 000                                                                           | 3 12   |                             |  |
|                                                                                   |         | 4-1/2" 11.60# L-80 LTC LINER JOINTS: 3                                                   | 4 500"                                            | 4.000                                                                           | 128 27 |                             |  |
| Stage 8                                                                           |         | Packers Plus 4-1/2" Drillable FracPORT™ with 2.125" Seat for 2.250" High Pressure Ball   | 5 630"                                            | 2.125                                                                           | 2 65   |                             |  |
| 5,710                                                                             |         | PN: 108481-000010 (5 shear pins at 315 psi each: 1,575 psi opening pressure)S# EM0045704 |                                                   | 3.720                                                                           |        |                             |  |
| 151bbls                                                                           |         |                                                                                          |                                                   |                                                                                 |        |                             |  |
| Service Center                                                                    |         | Telephone                                                                                | Contact                                           | Telephone                                                                       |        |                             |  |
| Midland, TX                                                                       |         | 432-563-8024                                                                             | Scott Mabry                                       | Chad Williams 405-255-3223                                                      |        |                             |  |

|                                                                                   |                                                                                    |                                                                                                                                                                                                                                                                 |                        |                                                                                 |        |                             |  |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---------------------------------------------------------------------------------|--------|-----------------------------|--|
|  |                                                                                    | Do It Once.<br>Do It Right.                                                                                                                                                                                                                                     |                        | Confidential Information - not to be disclosed<br>outside Mewbourne Oil Company |        | <b>Final<br/>Completion</b> |  |
| Prepared for<br><b>Mr. Mickey Young</b>                                           |                                                                                    | Company<br><b>Mewbourne Oil Company</b>                                                                                                                                                                                                                         |                        | Date<br><b>16-Dec-11</b>                                                        |        |                             |  |
| Well Name<br><b>Pine Box -21- "MD" Fed Com #1H</b>                                |                                                                                    | Type of Installation<br><b>20-Stage 4-1/2" StackFRAC® HD</b>                                                                                                                                                                                                    |                        | Location<br><b>Eddy County, NM</b>                                              |        |                             |  |
| Depth                                                                             | Drawing                                                                            | Description                                                                                                                                                                                                                                                     |                        | OD(in)                                                                          | ID(in) | Length                      |  |
| <b>Page 2 of 2</b>                                                                |                                                                                    |                                                                                                                                                                                                                                                                 |                        |                                                                                 |        |                             |  |
| REV_                                                                              |  |                                                                                                                                                                                                                                                                 |                        |                                                                                 |        |                             |  |
|                                                                                   |                                                                                    | 4-1/2" 11.60# L-80 LTC LINER JOINTS: 2<br>6' x 4-1/2" 11.60# L-80 LTC x BTC Pup Joint                                                                                                                                                                           |                        | 4 500"                                                                          | 4.000  | 85 41                       |  |
|                                                                                   |                                                                                    | <b>RSII</b><br><b>5,804</b><br>Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer<br>PN: 124929-000003 ( 4 shear pins at 522 psi each: 2,088 psi setting pressure)S# EA2012402<br>3' x 4-1/2" 11.60# L-80 BTC x LTC Pup Joint |                        | 4 500"                                                                          | 4 000  | 5 94                        |  |
|                                                                                   |                                                                                    | 4-1/2" 11.60# L-80 LTC LINER JOINTS: 3<br>Packers Plus 4-1/2" Drillable FracPORT™ with 2.000" Seat for 2.125" High Pressure Ball<br>PN: 108481-000009 (5 shear pins at 315 psi each: 1,575 psi opening pressure)S# EM0043168                                    |                        | 5 750"                                                                          | 3.875  | 5.18                        |  |
|                                                                                   |                                                                                    | Stage 7<br>5,940<br>155bbls<br>4-1/2" 11.60# L-80 LTC LINER JOINTS: 2<br>6' x 4-1/2" 11.60# L-80 LTC x BTC Pup Joint                                                                                                                                            |                        | 4 500"                                                                          | 4.000  | 3 11                        |  |
|                                                                                   |                                                                                    | <b>RSII</b><br><b>6,034</b><br>Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer<br>PN: 124929-000003 ( 4 shear pins at 522 psi each: 2,088 psi setting pressure)S# EA2012401<br>3' x 4-1/2" 11.60# L-80 BTC x LTC Pup Joint |                        | 4 500"                                                                          | 4 000  | 127 74                      |  |
|                                                                                   |                                                                                    | 4-1/2" 11.60# L-80 LTC LINER JOINTS: 3<br>Packers Plus 4-1/2" Drillable FracPORT™ with 1.875" Seat for 2.000" High Pressure Ball<br>PN: 108481-000008 (5 shear pins at 315 psi each: 1,575 psi opening pressure)S# EM0040767                                    |                        | 5 630"                                                                          | 2.000  | 2 65                        |  |
|                                                                                   |                                                                                    | Stage 6<br>6,170<br>158bbls<br>4-1/2" 11.60# L-80 LTC LINER JOINTS: 2<br>6' x 4-1/2" 11.60# L-80 LTC x BTC Pup Joint                                                                                                                                            |                        | 4 500"                                                                          | 4.000  | 85.36                       |  |
|                                                                                   |                                                                                    | <b>RSII</b><br><b>6,264</b><br>Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer<br>PN: 124929-000003 ( 4 shear pins at 522 psi each: 2,088 psi setting pressure)S# EA2012392<br>3' x 4-1/2" 11.60# L-80 BTC x LTC Pup Joint |                        | 4 500"                                                                          | 4 000  | 5 95                        |  |
|                                                                                   |                                                                                    | 4-1/2" 11.60# L-80 LTC LINER JOINTS: 3<br>Packers Plus 4-1/2" Drillable FracPORT™ with 1.750" Seat for 1.875" High Pressure Ball<br>PN: 108481-000007 (5 shear pins at 315 psi each: 1,575 psi opening pressure)S# EM0040766                                    |                        | 5 750"                                                                          | 3.875  | 5 18                        |  |
|                                                                                   |                                                                                    | Stage 5<br>6,400<br>162bbls<br>4-1/2" 11.60# L-80 LTC LINER JOINTS: 2<br>6' x 4-1/2" 11.60# L-80 LTC x BTC Pup Joint                                                                                                                                            |                        | 4 500"                                                                          | 4.000  | 3 10                        |  |
|                                                                                   |                                                                                    | <b>RSII</b><br><b>6,494</b><br>Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer<br>PN: 124929-000003 ( 4 shear pins at 522 psi each: 2,088 psi setting pressure)S# EA2012388<br>3' x 4-1/2" 11.60# L-80 BTC x LTC Pup Joint |                        | 4 500"                                                                          | 4 000  | 128.08                      |  |
|                                                                                   |                                                                                    | 4-1/2" 11.60# L-80 LTC LINER JOINTS: 3<br>Packers Plus 4-1/2" Drillable FracPORT™ with 1.625" Seat for 1.750" High Pressure Ball<br>PN: 108481-000006 (5 shear pins at 315 psi each: 1,575 psi opening pressure)S# EM0034467                                    |                        | 5 630"                                                                          | 1.875  | 2 65                        |  |
|                                                                                   |                                                                                    | Stage 4<br>6,588<br>165bbls<br>4-1/2" 11.60# L-80 LTC LINER JOINTS: 2<br>6' x 4-1/2" 11.60# L-80 LTC x BTC Pup Joint                                                                                                                                            |                        | 4 500"                                                                          | 4.000  | 85.26                       |  |
|                                                                                   |                                                                                    | <b>RSII</b><br><b>6,724</b><br>Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer<br>PN: 124929-000003 ( 4 shear pins at 522 psi each: 2,088 psi setting pressure)S# EA2012398<br>3' x 4-1/2" 11.60# L-80 BTC x LTC Pup Joint |                        | 4 500"                                                                          | 4.000  | 5.93                        |  |
|                                                                                   |                                                                                    | 4-1/2" 11.60# L-80 LTC LINER JOINTS: 3<br>Packers Plus 4-1/2" Drillable FracPORT™ with 1.500" Seat for 1.625" High Pressure Ball<br>PN: 108481-000005 (5 shear pins at 315 psi each: 1,575 psi opening pressure)S# EM0038105                                    |                        | 5.750"                                                                          | 3.875  | 5 18                        |  |
|                                                                                   |                                                                                    | Stage 3<br>6,817<br>169bbls<br>4-1/2" 11.60# L-80 LTC LINER JOINTS: 2<br>6' x 4-1/2" 11.60# L-80 LTC x BTC Pup Joint                                                                                                                                            |                        | 4 500"                                                                          | 4 000  | 3 14                        |  |
|                                                                                   |                                                                                    | <b>RSII</b><br><b>6,954</b><br>Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer<br>PN: 124929-000003 ( 4 shear pins at 522 psi each: 2,088 psi setting pressure)S# EA2012387<br>3' x 4-1/2" 11.60# L-80 BTC x LTC Pup Joint |                        | 4.500"                                                                          | 4 000  | 127 87                      |  |
|                                                                                   |                                                                                    | 4-1/2" 11.60# L-80 LTC LINER JOINTS: 3<br>Packers Plus 4-1/2" Drillable FracPORT™ with 1.375" Seat for 1.500" High Pressure Ball<br>PN: 108481-000004 (5 shear pins at 315 psi each: 1,575 psi opening pressure)S# EM0034461                                    |                        | 5.630"                                                                          | 1.750  | 2 65                        |  |
|                                                                                   |                                                                                    | Stage 2<br>7,047<br>172bbls<br>4-1/2" 11.60# L-80 LTC LINER JOINTS: 2<br>6' x 4-1/2" 11.60# L-80 LTC x BTC Pup Joint                                                                                                                                            |                        | 4 500"                                                                          | 4.000  | 85 39                       |  |
|                                                                                   |                                                                                    | <b>RSII</b><br><b>7,140</b><br>Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer<br>PN: 124929-000003 ( 4 shear pins at 522 psi each: 2,088 psi setting pressure)S# EA2012560<br>3' x 4-1/2" 11.60# L-80 BTC x LTC Pup Joint |                        | 4 500"                                                                          | 4 000  | 5 90                        |  |
|                                                                                   |                                                                                    | 4-1/2" 11.60# L-80 LTC LINER JOINTS: 3<br>Customer 4-1/2" Pump Off Sub<br>(Pinned above 4000 PSI)                                                                                                                                                               |                        | 5 750"                                                                          | 3.875  | 5.18                        |  |
|                                                                                   |                                                                                    |                                                                                                                                                                                                                                                                 |                        | 4 500"                                                                          | 4 000  | 3 14                        |  |
|                                                                                   |                                                                                    |                                                                                                                                                                                                                                                                 |                        | 4 500"                                                                          | 4.000  | 128 54                      |  |
|                                                                                   |                                                                                    |                                                                                                                                                                                                                                                                 |                        |                                                                                 |        | 2.99                        |  |
| Service Center<br>Midland, TX                                                     |                                                                                    | Telephone<br>432-563-8024                                                                                                                                                                                                                                       | Contact<br>Scott Mabry | Telephone<br>Chad Williams 405-255-3223                                         |        |                             |  |

OPERATOR MEWBOURNE OIL CO.  
WELL/LEASE PINE BOX 21 MD FED COM #1H  
COUNTY EDDY

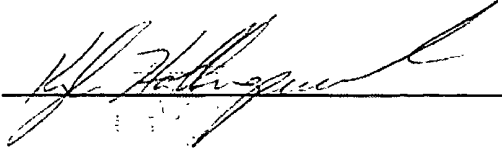
STATE OF NEW MEXICO  
DEVIATION REPORT

---

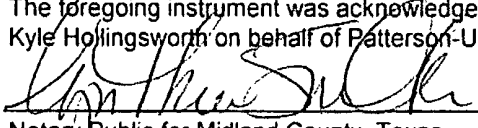
325 0 05  
879 0 76

STATE OF TEXAS

COUNTY OF MIDLAND

BY. 

The foregoing instrument was acknowledged before me on January 26, 2012 by  
Kyle Hollingsworth on behalf of Patterson-UTI Drilling Company LLC

  
Notary Public for Midland County, Texas  
My Commission Expires: November 6, 2014

