

OPERATOR  
WELL/LEASE  
COUNTY

MEWBOURNE OIL COMPANY  
COOKSEY 36 ST COM #1H  
EDDY

STATE OF NEW MEXICO  
DEVIATION REPORT

30-015-39327

|       |      |
|-------|------|
| 233   | 0.09 |
| 531   | 1.12 |
| 780   | 1.16 |
| 1,033 | 0.68 |
| 1,287 | 0.42 |
| 1,543 | 0.79 |
| 1,797 | 0.68 |
| 2,019 | 3.00 |
| 2,082 | 3.12 |
| 2,313 | 1.57 |
| 2,821 | 0.61 |
| 3,327 | 0.49 |
| 3,803 | 0.33 |
| 4,786 | 0.46 |
| 5,262 | 0.70 |

STATE OF TEXAS

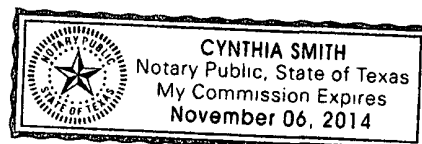
COUNTY OF MIDLAND

BY: \_\_\_\_\_

*Doyce Haney*

The foregoing instrument was acknowledged before me on January 11, 2012 by Doyce Haney  
on behalf of Patterson-UT-Drilling Company LLC

*Cynthia Smith*  
\_\_\_\_\_  
Notary Public for Midland County, Texas  
My Commission Expires: November 06, 2014





Company: Mewbourne Oil Company  
Lease/Well: Cooksey 36 State Com/1H  
Location: S 36, T 25S, R 27E  
Rig Name: Patterson 46  
State/County: New Mexico/Eddy  
Latitude: 32.08  
GRID North is 0.10 Degrees East of True North  
VS-Azi: 0.00 Degrees



Depth Reference : RKB=20.5 Ft Elevation=3082 Ft.

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: cooksey 36 state com1h\_ed.ut

Minimum Curvature Method

Report Date/Time: 1/11/2012 / 15:03

Vaughn Energy Services

Midland, TX

432-563-5444

Surveyor: Zach Garcia

Cooksey 36 State 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                  | 0.24                 | 47.23                     | 100.00    | 0.14        | 0.15        | 0.14                      | 0.21                      | 47.23                       | 0.24                          |
| 200.00                  | 0.30                 | 41.66                     | 200.00    | 0.48        | 0.48        | 0.48                      | 0.68                      | 45.07                       | 0.07                          |
| 300.00                  | 0.30                 | 67.68                     | 300.00    | 0.78        | 0.90        | 0.78                      | 1.19                      | 49.19                       | 0.14                          |
| 400.00                  | 0.31                 | 47.33                     | 400.00    | 1.06        | 1.34        | 1.06                      | 1.71                      | 51.70                       | 0.11                          |
| 500.00                  | 1.10                 | 51.32                     | 499.99    | 1.84        | 2.28        | 1.84                      | 2.93                      | 51.17                       | 0.79                          |
| 600.00                  | 1.55                 | 43.37                     | 599.96    | 3.42        | 3.96        | 3.42                      | 5.23                      | 49.19                       | 0.49                          |
| 700.00                  | 1.88                 | 56.88                     | 699.92    | 5.30        | 6.26        | 5.30                      | 8.20                      | 49.77                       | 0.52                          |
| 800.00                  | 1.81                 | 83.07                     | 799.87    | 6.39        | 9.21        | 6.39                      | 11.21                     | 55.26                       | 0.84                          |
| 900.00                  | 1.85                 | 109.36                    | 899.82    | 6.04        | 12.30       | 6.04                      | 13.70                     | 63.83                       | 0.83                          |
| 1000.00                 | 1.34                 | 123.14                    | 999.78    | 4.87        | 14.80       | 4.87                      | 15.58                     | 71.77                       | 0.63                          |
| 1100.00                 | 1.23                 | 162.35                    | 1099.75   | 3.21        | 16.10       | 3.21                      | 16.42                     | 78.71                       | 0.87                          |
| 1200.00                 | 1.01                 | 160.95                    | 1199.74   | 1.36        | 16.71       | 1.36                      | 16.76                     | 85.34                       | 0.22                          |
| 1300.00                 | 0.99                 | 139.28                    | 1299.72   | -0.12       | 17.56       | -0.12                     | 17.56                     | 90.40                       | 0.38                          |
| 1400.00                 | 0.85                 | 128.60                    | 1399.71   | -1.24       | 18.70       | -1.24                     | 18.74                     | 93.79                       | 0.22                          |
| 1500.00                 | 0.93                 | 110.12                    | 1499.70   | -1.98       | 20.05       | -1.98                     | 20.14                     | 95.65                       | 0.30                          |
| 1600.00                 | 1.76                 | 94.54                     | 1599.67   | -2.38       | 22.34       | -2.38                     | 22.47                     | 96.09                       | 0.89                          |
| 1700.00                 | 2.02                 | 82.14                     | 1699.61   | -2.26       | 25.62       | -2.26                     | 25.72                     | 95.05                       | 0.49                          |
| 1800.00                 | 1.94                 | 85.05                     | 1799.55   | -1.88       | 29.05       | -1.88                     | 29.11                     | 93.70                       | 0.13                          |

| 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                 | 2.21                 | 84.92                     | 1899.49   | -1.56       | 32.66       | -1.56                     | 32.70                     | 92.73                       | 0.27                          |
| 2000.00                 | 3.05                 | 83.55                     | 1999.38   | -1.09       | 37.23       | -1.09                     | 37.25                     | 91.68                       | 0.84                          |
| 2100.00                 | 3.64                 | 83.74                     | 2099.21   | -0.45       | 43.03       | -0.45                     | 43.03                     | 90.59                       | 0.59                          |
| 2200.00                 | 2.89                 | 84.00                     | 2199.05   | 0.16        | 48.69       | 0.16                      | 48.69                     | 89.81                       | 0.75                          |
| 2300.00                 | 2.18                 | 87.04                     | 2298.95   | 0.53        | 53.10       | 0.53                      | 53.10                     | 89.43                       | 0.73                          |
| 2400.00                 | 1.66                 | 87.57                     | 2398.89   | 0.68        | 56.44       | 0.68                      | 56.45                     | 89.30                       | 0.52                          |
| 2500.00                 | 2.09                 | 90.32                     | 2498.84   | 0.74        | 59.71       | 0.74                      | 59.71                     | 89.29                       | 0.44                          |
| 2600.00                 | 2.16                 | 91.91                     | 2598.77   | 0.66        | 63.42       | 0.66                      | 63.42                     | 89.40                       | 0.09                          |
| 2700.00                 | 1.90                 | 91.54                     | 2698.71   | 0.56        | 66.97       | 0.56                      | 66.97                     | 89.53                       | 0.26                          |
| 2800.00                 | 1.22                 | 88.71                     | 2798.67   | 0.53        | 69.69       | 0.53                      | 69.69                     | 89.56                       | 0.69                          |
| 2900.00                 | 1.43                 | 84.83                     | 2898.64   | 0.67        | 71.99       | 0.67                      | 72.00                     | 89.47                       | 0.22                          |
| 3000.00                 | 1.27                 | 91.99                     | 2998.62   | 0.74        | 74.34       | 0.74                      | 74.34                     | 89.43                       | 0.23                          |
| 3100.00                 | 0.88                 | 97.03                     | 3098.60   | 0.61        | 76.21       | 0.61                      | 76.22                     | 89.54                       | 0.40                          |
| 3200.00                 | 0.67                 | 125.05                    | 3198.59   | 0.18        | 77.46       | 0.18                      | 77.46                     | 89.87                       | 0.43                          |
| 3300.00                 | 0.79                 | 143.97                    | 3298.58   | -0.72       | 78.35       | -0.72                     | 78.35                     | 90.52                       | 0.27                          |
| 3400.00                 | 0.48                 | 138.61                    | 3398.57   | -1.59       | 79.03       | -1.59                     | 79.04                     | 91.15                       | 0.32                          |
| 3500.00                 | 0.79                 | 191.17                    | 3498.57   | -2.57       | 79.17       | -2.57                     | 79.21                     | 91.86                       | 0.62                          |
| 3600.00                 | 0.65                 | 218.09                    | 3598.56   | -3.69       | 78.69       | -3.69                     | 78.77                     | 92.69                       | 0.36                          |
| 3700.00                 | 0.41                 | 213.32                    | 3698.56   | -4.44       | 78.14       | -4.44                     | 78.27                     | 93.25                       | 0.25                          |
| 3800.00                 | 0.65                 | 250.91                    | 3798.55   | -4.92       | 77.41       | -4.92                     | 77.56                     | 93.64                       | 0.41                          |
| 3900.00                 | 0.91                 | 256.42                    | 3898.54   | -5.29       | 76.10       | -5.29                     | 76.28                     | 93.98                       | 0.27                          |
| 4000.00                 | 0.93                 | 228.77                    | 3998.53   | -6.02       | 74.71       | -6.02                     | 74.96                     | 94.60                       | 0.44                          |
| 4100.00                 | 1.11                 | 238.30                    | 4098.52   | -7.06       | 73.27       | -7.06                     | 73.61                     | 95.51                       | 0.25                          |
| 4200.00                 | 1.09                 | 225.00                    | 4198.50   | -8.25       | 71.77       | -8.25                     | 72.25                     | 96.55                       | 0.26                          |
| 4300.00                 | 0.83                 | 217.57                    | 4298.48   | -9.49       | 70.66       | -9.49                     | 71.30                     | 97.65                       | 0.29                          |
| 4400.00                 | 0.57                 | 243.51                    | 4398.48   | -10.29      | 69.77       | -10.29                    | 70.53                     | 98.39                       | 0.40                          |
| 4500.00                 | 0.88                 | 215.77                    | 4498.47   | -11.14      | 68.87       | -11.14                    | 69.77                     | 99.19                       | 0.46                          |
| 4600.00                 | 1.07                 | 238.99                    | 4598.45   | -12.25      | 67.62       | -12.25                    | 68.72                     | 100.26                      | 0.44                          |
| 4700.00                 | 0.59                 | 228.15                    | 4698.44   | -13.07      | 66.44       | -13.07                    | 67.71                     | 101.13                      | 0.51                          |
| 4800.00                 | 1.18                 | 213.31                    | 4798.43   | -14.27      | 65.49       | -14.27                    | 67.03                     | 102.30                      | 0.64                          |
| 4900.00                 | 0.85                 | 220.72                    | 4898.42   | -15.70      | 64.44       | -15.70                    | 66.32                     | 103.69                      | 0.36                          |
| 5000.00                 | 0.77                 | 226.48                    | 4998.41   | -16.72      | 63.47       | -16.72                    | 65.64                     | 104.75                      | 0.11                          |
| 5100.00                 | 0.77                 | 210.62                    | 5098.40   | -17.76      | 62.65       | -17.76                    | 65.11                     | 105.82                      | 0.21                          |
| 5200.00                 | 0.83                 | 189.80                    | 5198.39   | -19.05      | 62.18       | -19.05                    | 65.03                     | 107.04                      | 0.30                          |
| 5300.00                 | 0.85                 | 174.57                    | 5298.38   | -20.51      | 62.13       | -20.51                    | 65.42                     | 108.27                      | 0.22                          |
| 5400.00                 | 0.99                 | 153.29                    | 5398.36   | -22.02      | 62.58       | -22.02                    | 66.34                     | 109.38                      | 0.37                          |
| 5500.00                 | 1.04                 | 140.61                    | 5498.35   | -23.49      | 63.55       | -23.49                    | 67.75                     | 110.29                      | 0.23                          |
| 5600.00                 | 1.02                 | 131.09                    | 5598.33   | -24.78      | 64.79       | -24.78                    | 69.37                     | 110.93                      | 0.17                          |
| 5680.00                 | 1.02                 | 131.09                    | 5678.32   | -25.71      | 65.87       | -25.71                    | 70.71                     | 111.33                      | 0.00                          |

# **Mewbourne Oil Co**

**Eddy County, New Mexico  
Sec 36, T25S, R27E  
Cooksey 36 State Com #1H**

**Wellbore #1**

**Survey: MWD**

## **DDC Survey Report**

**09 January, 2012**



# DDC Survey Report



|                  |                          |                                     |                                       |
|------------------|--------------------------|-------------------------------------|---------------------------------------|
| <b>Company:</b>  | Mewbourne Oil Co         | <b>Local Co-ordinate Reference:</b> | Well Cooksey 36 State Com #1H         |
| <b>Project:</b>  | Eddy County, New Mexico  | <b>TVD Reference:</b>               | WELL @ 3103.0usft (Patterson-UTI #46) |
| <b>Site:</b>     | Sec 36, T25S, R27E       | <b>MD Reference:</b>                | WELL @ 3103.0usft (Patterson-UTI #46) |
| <b>Well:</b>     | Cooksey 36 State 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                 |                      |                |

|                              |                    |                          |                 |
|------------------------------|--------------------|--------------------------|-----------------|
| <b>Site</b>                  | Sec 36, T25S, R27E |                          |                 |
| <b>Site Position:</b>        |                    | <b>Northing:</b>         | 392,778.32 usft |
| <b>From:</b>                 | Map                | <b>Easting:</b>          | 561,175.38 usft |
| <b>Position Uncertainty:</b> | 0.0 usft           | <b>Slot Radius:</b>      | 13-3/16 "       |
|                              |                    | <b>Latitude:</b>         | 32° 4' 46.954 N |
|                              |                    | <b>Longitude:</b>        | 104° 8' 8.949 W |
|                              |                    | <b>Grid Convergence:</b> | 0.10 °          |

|                             |                          |                            |                                  |
|-----------------------------|--------------------------|----------------------------|----------------------------------|
| <b>Well</b>                 | Cooksey 36 State Com #1H |                            |                                  |
| <b>Well Position</b>        | <b>+N/-S</b>             | 0.0 usft                   | <b>Northing:</b> 392,778.32 usft |
|                             | <b>+E/-W</b>             | 0.0 usft                   | <b>Easting:</b> 561,175.38 usft  |
| <b>Position Uncertainty</b> | 0.0 usft                 | <b>Wellhead Elevation:</b> | usft                             |
|                             |                          | <b>Latitude:</b>           | 32° 4' 46.954 N                  |
|                             |                          | <b>Longitude:</b>          | 104° 8' 8.949 W                  |
|                             |                          | <b>Ground Level:</b>       | 3,082.0 usft                     |

|                  |                   |                    |                            |
|------------------|-------------------|--------------------|----------------------------|
| <b>Wellbore</b>  | Wellbore #1       |                    |                            |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination (°)</b>     |
|                  | IGRF2010          | 11/23/2011         | 7.78                       |
|                  |                   |                    | <b>Dip Angle (°)</b>       |
|                  |                   |                    | 59.94                      |
|                  |                   |                    | <b>Field Strength (nT)</b> |
|                  |                   |                    | 48,424                     |

|                          |                                |                      |                      |
|--------------------------|--------------------------------|----------------------|----------------------|
| <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                  |
| <b>Vertical Section:</b> | <b>Depth From (TVD) (usft)</b> | <b>+N/-S (usft)</b>  | <b>+E/-W (usft)</b>  |
|                          | 0.0                            | 0.0                  | 0.0                  |
|                          |                                |                      | <b>Direction (°)</b> |
|                          |                                |                      | 111.32               |

|                       |                  |                          |                    |
|-----------------------|------------------|--------------------------|--------------------|
| <b>Survey Program</b> | Date 1/9/2012    |                          |                    |
| <b>From (usft)</b>    | <b>To (usft)</b> | <b>Survey (Wellbore)</b> | <b>Tool Name</b>   |
| 100.0                 | 5,680.0          | Gyro (Wellbore #1)       | Good_gyro          |
| 5,782.0               | 10,845.0         | MWD (Wellbore #1)        | MWD default        |
|                       |                  |                          | <b>Description</b> |
|                       |                  |                          | Good Gyro          |
|                       |                  |                          | MWD - Standard     |

|                                      |                        |                    |                              |                     |                     |                                |                                |                               |                              |
|--------------------------------------|------------------------|--------------------|------------------------------|---------------------|---------------------|--------------------------------|--------------------------------|-------------------------------|------------------------------|
| <b>Survey</b>                        |                        |                    |                              |                     |                     |                                |                                |                               |                              |
| <b>Measured Depth (usft)</b>         | <b>Inclination (°)</b> | <b>Azimuth (°)</b> | <b>Vertical Depth (usft)</b> | <b>+N/-S (usft)</b> | <b>+E/-W (usft)</b> | <b>Vertical Section (usft)</b> | <b>Dogleg Rate (°/100usft)</b> | <b>Build Rate (°/100usft)</b> | <b>Turn Rate (°/100usft)</b> |
| <b>Tie In @ 5680' MD / 5678' TVD</b> |                        |                    |                              |                     |                     |                                |                                |                               |                              |
| 5,680.0                              | 1.02                   | 131.09             | 5,678.3                      | -25.7               | 65.9                | 70.7                           | 0.00                           | 0.00                          | 0.00                         |
| 5,782.0                              | 1.00                   | 175.60             | 5,780.3                      | -27.2               | 66.6                | 72.0                           | 0.75                           | -0.02                         | 43.64                        |
| 5,814.0                              | 0.70                   | 6.10               | 5,812.3                      | -27.3               | 66.7                | 72.0                           | 5.29                           | -0.94                         | -529.69                      |
| 5,845.0                              | 4.20                   | 355.50             | 5,843.3                      | -26.0               | 66.6                | 71.5                           | 11.34                          | 11.29                         | -34.19                       |
| 5,877.0                              | 7.20                   | 356.60             | 5,875.1                      | -22.8               | 66.4                | 70.1                           | 9.38                           | 9.38                          | 3.44                         |
| 5,909.0                              | 10.70                  | 355.50             | 5,906.7                      | -17.8               | 66.0                | 68.0                           | 10.95                          | 10.94                         | -3.44                        |
| 5,940.0                              | 14.40                  | 353.80             | 5,937.0                      | -11.1               | 65.4                | 65.0                           | 11.99                          | 11.94                         | -5.48                        |
| 5,972.0                              | 17.90                  | 350.90             | 5,967.7                      | -2.3                | 64.2                | 60.6                           | 11.22                          | 10.94                         | -9.06                        |
| 6,003.0                              | 20.00                  | 350.90             | 5,997.0                      | 7.6                 | 62.6                | 55.5                           | 6.77                           | 6.77                          | 0.00                         |

# DDC Survey Report



|                  |                          |                                     |                                       |
|------------------|--------------------------|-------------------------------------|---------------------------------------|
| <b>Company:</b>  | Mewbourne Oil Co         | <b>Local Co-ordinate Reference:</b> | Well Cooksey 36 State Com #1H         |
| <b>Project:</b>  | Eddy County, New Mexico  | <b>TVD Reference:</b>               | WELL @ 3103.0usft (Patterson-UTI #46) |
| <b>Site:</b>     | Sec 36, T25S, R27E       | <b>MD Reference:</b>                | WELL @ 3103.0usft (Patterson-UTI #46) |
| <b>Well:</b>     | Cooksey 36 State Com #1H | <b>North Reference:</b>             | Gnd                                   |
| <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) |
| 6,035.0                                  | 22.20           | 350.20      | 6,026.9               | 19.0         | 60.7         | 49.6                    | 6.92                    | 6.88                   | -2.19                 |
| 6,067.0                                  | 25.30           | 348.60      | 6,056.2               | 31.7         | 58.3         | 42.8                    | 9.89                    | 9.69                   | -5.00                 |
| 6,098.0                                  | 27.70           | 346.20      | 6,083.9               | 45.2         | 55.3         | 35.1                    | 8.48                    | 7.74                   | -7.74                 |
| 6,130.0                                  | 29.90           | 344.50      | 6,111.9               | 60.1         | 51.4         | 26.0                    | 7.34                    | 6.88                   | -5.31                 |
| 6,162.0                                  | 32.30           | 343.40      | 6,139.3               | 75.9         | 46.8         | 16.0                    | 7.71                    | 7.50                   | -3.44                 |
| 6,194.0                                  | 35.00           | 343.80      | 6,166.0               | 93.0         | 41.8         | 5.1                     | 8.47                    | 8.44                   | 1.25                  |
| 6,225.0                                  | 37.80           | 344.40      | 6,190.9               | 110.6        | 36.8         | -6.0                    | 9.10                    | 9.03                   | 1.94                  |
| 6,257.0                                  | 40.50           | 343.90      | 6,215.7               | 130.1        | 31.2         | -18.2                   | 8.49                    | 8.44                   | -1.56                 |
| 6,288.0                                  | 43.30           | 343.80      | 6,238.8               | 150.0        | 25.5         | -30.8                   | 9.03                    | 9.03                   | -0.32                 |
| 6,320.0                                  | 46.20           | 343.40      | 6,261.5               | 171.6        | 19.1         | -44.6                   | 9.11                    | 9.06                   | -1.25                 |
| 6,352.0                                  | 49.20           | 344.50      | 6,283.1               | 194.3        | 12.6         | -58.9                   | 9.71                    | 9.38                   | 3.44                  |
| 6,384.0                                  | 52.00           | 345.80      | 6,303.4               | 218.2        | 6.3          | -73.5                   | 9.30                    | 8.75                   | 4.06                  |
| 6,415.0                                  | 55.20           | 346.10      | 6,321.8               | 242.4        | 0.2          | -88.0                   | 10.35                   | 10.32                  | 0.97                  |
| Crossed Hard Line @ 6420' MD / 6325' TVD |                 |             |                       |              |              |                         |                         |                        |                       |
| 6,420.0                                  | 55.73           | 346.08      | 6,324.6               | 246.4        | -0.8         | -90.3                   | 10.63                   | 10.62                  | -0.32                 |
| 6,447.0                                  | 58.60           | 346.00      | 6,339.2               | 268.4        | -6.3         | -103.4                  | 10.63                   | 10.63                  | -0.31                 |
| 6,479.0                                  | 61.90           | 345.80      | 6,355.1               | 295.4        | -13.0        | -119.5                  | 10.33                   | 10.31                  | -0.63                 |
| 6,511.0                                  | 65.40           | 346.40      | 6,369.3               | 323.2        | -19.9        | -136.1                  | 11.07                   | 10.94                  | 1.88                  |
| 6,542.0                                  | 68.80           | 347.10      | 6,381.4               | 351.0        | -26.5        | -152.3                  | 11.16                   | 10.97                  | 2.26                  |
| 6,574.0                                  | 72.30           | 348.40      | 6,392.0               | 380.5        | -32.8        | -168.9                  | 11.59                   | 10.94                  | 4.06                  |
| 6,606.0                                  | 75.80           | 349.70      | 6,400.8               | 410.7        | -38.7        | -185.4                  | 11.61                   | 10.94                  | 4.06                  |
| 6,637.0                                  | 78.90           | 351.10      | 6,407.6               | 440.5        | -43.7        | -200.9                  | 10.93                   | 10.00                  | 4.52                  |
| 6,669.0                                  | 81.40           | 352.20      | 6,413.1               | 471.7        | -48.3        | -216.5                  | 8.51                    | 7.81                   | 3.44                  |
| 6,701.0                                  | 83.60           | 353.00      | 6,417.3               | 503.1        | -52.4        | -231.8                  | 7.31                    | 6.88                   | 2.50                  |
| 6,732.0                                  | 86.50           | 354.80      | 6,419.9               | 533.9        | -55.7        | -246.0                  | 11.00                   | 9.35                   | 5.81                  |
| 6,742.0                                  | 86.60           | 354.30      | 6,420.5               | 543.8        | -56.6        | -250.5                  | 5.09                    | 1.00                   | -5.00                 |
| 6,830.0                                  | 89.70           | 356.20      | 6,423.4               | 631.4        | -63.9        | -289.1                  | 4.13                    | 3.52                   | 2.16                  |
| 6,861.0                                  | 89.70           | 355.50      | 6,423.5               | 662.3        | -66.1        | -302.5                  | 2.26                    | 0.00                   | -2.26                 |
| 6,893.0                                  | 89.70           | 355.50      | 6,423.7               | 694.2        | -68.7        | -316.4                  | 0.00                    | 0.00                   | 0.00                  |
| 6,925.0                                  | 89.20           | 356.20      | 6,424.0               | 726.2        | -71.0        | -330.2                  | 2.69                    | -1.56                  | 2.19                  |
| 6,957.0                                  | 88.70           | 356.20      | 6,424.6               | 758.1        | -73.1        | -343.7                  | 1.56                    | -1.56                  | 0.00                  |
| 6,988.0                                  | 88.60           | 357.60      | 6,425.3               | 789.0        | -74.8        | -356.5                  | 4.53                    | -0.32                  | 4.52                  |
| 7,020.0                                  | 88.40           | 357.50      | 6,426.2               | 821.0        | -76.1        | -369.4                  | 0.70                    | -0.63                  | -0.31                 |
| 7,052.0                                  | 88.80           | 358.80      | 6,427.0               | 853.0        | -77.2        | -382.0                  | 4.25                    | 1.25                   | 4.06                  |
| 7,084.0                                  | 89.10           | 358.60      | 6,427.5               | 885.0        | -77.9        | -394.3                  | 1.13                    | 0.94                   | -0.63                 |
| 7,116.0                                  | 90.40           | 359.20      | 6,427.7               | 916.9        | -78.5        | -406.5                  | 4.47                    | 4.06                   | 1.88                  |
| 7,147.0                                  | 90.80           | 0.10        | 6,427.4               | 947.9        | -78.7        | -418.0                  | 3.18                    | 1.29                   | 2.90                  |
| 7,178.0                                  | 90.90           | 0.40        | 6,426.9               | 978.9        | -78.6        | -429.1                  | 1.02                    | 0.32                   | 0.97                  |
| 7,210.0                                  | 90.70           | 0.10        | 6,426.5               | 1,010.9      | -78.4        | -440.6                  | 1.13                    | -0.63                  | -0.94                 |
| 7,242.0                                  | 90.40           | 359.60      | 6,426.1               | 1,042.9      | -78.5        | -452.4                  | 1.82                    | -0.94                  | -1.56                 |
| 7,305.0                                  | 89.90           | 358.60      | 6,426.0               | 1,105.9      | -79.5        | -476.2                  | 1.77                    | -0.79                  | -1.59                 |
| 7,369.0                                  | 89.70           | 0.80        | 6,426.2               | 1,169.9      | -79.8        | -499.8                  | 3.45                    | -0.31                  | 3.44                  |
| 7,433.0                                  | 89.50           | 1.50        | 6,426.7               | 1,233.9      | -78.5        | -521.8                  | 1.14                    | -0.31                  | 1.09                  |

# DDC Survey Report



|                  |                          |                                     |                                       |
|------------------|--------------------------|-------------------------------------|---------------------------------------|
| <b>Company:</b>  | Mewbourne Oil Co         | <b>Local Co-ordinate Reference:</b> | Well Cooksey 36 State Com #1H         |
| <b>Project:</b>  | Eddy County, New Mexico  | <b>TVD Reference:</b>               | WELL @ 3103.0usft (Patterson-UTI #46) |
| <b>Site:</b>     | Sec 36, T25S, R27E       | <b>MD Reference:</b>                | WELL @ 3103.0usft (Patterson-UTI #46) |
| <b>Well:</b>     | Cooksey 36 State 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) |  |
| 7,496.0               | 88.30           | 1.70        | 6,427.9               | 1,296.9      | -76.8        | -543.1                  | 1.93                    | -1.90                  | 0.32                  |  |
| 7,560.0               | 89.70           | 2.00        | 6,429.0               | 1,360.8      | -74.7        | -564.4                  | 2.24                    | 2.19                   | 0.47                  |  |
| 7,623.0               | 88.90           | 0.80        | 6,429.7               | 1,423.8      | -73.2        | -585.9                  | 2.29                    | -1.27                  | -1.90                 |  |
| 7,687.0               | 90.00           | 0.40        | 6,430.4               | 1,487.8      | -72.5        | -608.5                  | 1.83                    | 1.72                   | -0.63                 |  |
| 7,750.0               | 91.40           | 0.80        | 6,429.6               | 1,550.8      | -71.9        | -630.8                  | 2.31                    | 2.22                   | 0.63                  |  |
| 7,814.0               | 91.60           | 1.70        | 6,427.9               | 1,614.7      | -70.5        | -652.8                  | 1.44                    | 0.31                   | 1.41                  |  |
| 7,877.0               | 91.70           | 1.40        | 6,426.1               | 1,677.7      | -68.8        | -674.1                  | 0.50                    | 0.16                   | -0.48                 |  |
| 7,941.0               | 91.40           | 1.50        | 6,424.4               | 1,741.6      | -67.1        | -695.8                  | 0.49                    | -0.47                  | 0.16                  |  |
| 8,004.0               | 90.40           | 359.40      | 6,423.4               | 1,804.6      | -66.6        | -718.3                  | 3.69                    | -1.59                  | -3.33                 |  |
| 8,068.0               | 90.10           | 358.90      | 6,423.1               | 1,868.6      | -67.6        | -742.4                  | 0.91                    | -0.47                  | -0.78                 |  |
| 8,131.0               | 90.50           | 1.80        | 6,422.8               | 1,931.6      | -67.2        | -765.0                  | 4.65                    | 0.63                   | 4.60                  |  |
| 8,195.0               | 89.70           | 1.70        | 6,422.7               | 1,995.6      | -65.3        | -786.4                  | 1.26                    | -1.25                  | -0.16                 |  |
| 8,259.0               | 89.40           | 2.20        | 6,423.2               | 2,059.5      | -63.1        | -807.6                  | 0.91                    | -0.47                  | 0.78                  |  |
| 8,322.0               | 89.10           | 1.80        | 6,424.0               | 2,122.5      | -60.9        | -828.5                  | 0.79                    | -0.48                  | -0.63                 |  |
| 8,385.0               | 89.40           | 2.70        | 6,424.8               | 2,185.4      | -58.4        | -849.1                  | 1.51                    | 0.48                   | 1.43                  |  |
| 8,448.0               | 89.00           | 2.90        | 6,425.7               | 2,248.4      | -55.3        | -869.1                  | 0.71                    | -0.63                  | 0.32                  |  |
| 8,512.0               | 89.60           | 1.90        | 6,426.5               | 2,312.3      | -52.6        | -889.8                  | 1.82                    | 0.94                   | -1.56                 |  |
| 8,576.0               | 90.10           | 0.40        | 6,426.6               | 2,376.3      | -51.4        | -911.9                  | 2.47                    | 0.78                   | -2.34                 |  |
| 8,639.0               | 90.40           | 359.90      | 6,426.4               | 2,439.3      | -51.2        | -934.6                  | 0.93                    | 0.48                   | -0.79                 |  |
| 8,702.0               | 90.20           | 359.10      | 6,426.0               | 2,502.3      | -51.7        | -958.1                  | 1.31                    | -0.32                  | -1.27                 |  |
| 8,765.0               | 90.50           | 359.00      | 6,425.7               | 2,565.3      | -52.8        | -981.9                  | 0.50                    | 0.48                   | -0.16                 |  |
| 8,829.0               | 90.60           | 359.90      | 6,425.0               | 2,629.3      | -53.4        | -1,005.8                | 1.41                    | 0.16                   | 1.41                  |  |
| 8,893.0               | 90.70           | 0.80        | 6,424.3               | 2,693.3      | -53.0        | -1,028.7                | 1.41                    | 0.16                   | 1.41                  |  |
| 8,956.0               | 89.90           | 358.90      | 6,424.0               | 2,756.3      | -53.2        | -1,051.7                | 3.27                    | -1.27                  | -3.02                 |  |
| 9,020.0               | 90.00           | 359.50      | 6,424.0               | 2,820.3      | -54.1        | -1,075.8                | 0.95                    | 0.16                   | 0.94                  |  |
| 9,083.0               | 90.50           | 359.50      | 6,423.8               | 2,883.2      | -54.6        | -1,099.3                | 0.79                    | 0.79                   | 0.00                  |  |
| 9,147.0               | 89.70           | 359.80      | 6,423.7               | 2,947.2      | -55.0        | -1,122.9                | 1.33                    | -1.25                  | 0.47                  |  |
| 9,210.0               | 89.40           | 359.90      | 6,424.1               | 3,010.2      | -55.2        | -1,145.9                | 0.50                    | -0.48                  | 0.16                  |  |
| 9,273.0               | 89.80           | 359.50      | 6,424.6               | 3,073.2      | -55.5        | -1,169.2                | 0.90                    | 0.63                   | -0.63                 |  |
| 9,337.0               | 89.80           | 359.90      | 6,424.8               | 3,137.2      | -55.8        | -1,192.7                | 0.62                    | 0.00                   | 0.63                  |  |
| 9,400.0               | 89.30           | 0.60        | 6,425.3               | 3,200.2      | -55.6        | -1,215.4                | 1.37                    | -0.79                  | 1.11                  |  |
| 9,432.0               | 89.30           | 359.70      | 6,425.7               | 3,232.2      | -55.5        | -1,227.0                | 2.81                    | 0.00                   | -2.81                 |  |
| 9,463.0               | 91.10           | 0.90        | 6,425.6               | 3,263.2      | -55.3        | -1,238.1                | 6.98                    | 5.81                   | 3.87                  |  |
| 9,495.0               | 93.30           | 0.90        | 6,424.4               | 3,295.2      | -54.8        | -1,249.2                | 6.88                    | 6.88                   | 0.00                  |  |
| 9,527.0               | 93.80           | 0.70        | 6,422.4               | 3,327.1      | -54.4        | -1,260.4                | 1.68                    | 1.56                   | -0.63                 |  |
| 9,558.0               | 94.20           | 0.60        | 6,420.2               | 3,358.1      | -54.0        | -1,271.3                | 1.33                    | 1.29                   | -0.32                 |  |
| 9,622.0               | 93.60           | 0.40        | 6,415.9               | 3,421.9      | -53.5        | -1,294.0                | 0.99                    | -0.94                  | -0.31                 |  |
| 9,685.0               | 92.80           | 0.10        | 6,412.3               | 3,484.8      | -53.2        | -1,316.7                | 1.36                    | -1.27                  | -0.48                 |  |
| 9,748.0               | 91.50           | 0.90        | 6,410.0               | 3,547.8      | -52.6        | -1,339.0                | 2.42                    | -2.06                  | 1.27                  |  |
| 9,811.0               | 91.20           | 0.80        | 6,408.5               | 3,610.7      | -51.7        | -1,361.1                | 0.50                    | -0.48                  | -0.16                 |  |
| 9,875.0               | 91.30           | 1.90        | 6,407.1               | 3,674.7      | -50.2        | -1,382.9                | 1.73                    | 0.16                   | 1.72                  |  |
| 9,939.0               | 90.10           | 0.90        | 6,406.3               | 3,738.7      | -48.6        | -1,404.7                | 2.44                    | -1.88                  | -1.56                 |  |
| 10,003.0              | 89.90           | 0.00        | 6,406.3               | 3,802.7      | -48.1        | -1,427.5                | 1.44                    | -0.31                  | -1.41                 |  |
| 10,067.0              | 89.80           | 0.80        | 6,406.5               | 3,866.7      | -47.7        | -1,450.4                | 1.26                    | -0.16                  | 1.25                  |  |

# DDC Survey Report



|                  |                          |                                     |                                       |
|------------------|--------------------------|-------------------------------------|---------------------------------------|
| <b>Company:</b>  | Mewbourne Oil Co         | <b>Local Co-ordinate Reference:</b> | Well Cooksey 36 State Com #1H         |
| <b>Project:</b>  | Eddy County, New Mexico  | <b>TVD Reference:</b>               | WELL @ 3103.0usft (Patterson-UTI #46) |
| <b>Site:</b>     | Sec 36, T25S, R27E       | <b>MD Reference:</b>                | WELL @ 3103.0usft (Patterson-UTI #46) |
| <b>Well:</b>     | Cooksey 36 State 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) |
|----------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 10,130.0                   | 90.10           | 0.50        | 6,406.5               | 3,929.7      | -47.0        | -1,472.6                | 0.67                    | 0.48                   | -0.48                 |
| 10,194.0                   | 90.00           | 0.60        | 6,406.5               | 3,993.7      | -46.4        | -1,495.3                | 0.22                    | -0.16                  | 0.16                  |
| 10,257.0                   | 90.30           | 359.60      | 6,406.3               | 4,056.7      | -46.2        | -1,518.1                | 1.66                    | 0.48                   | -1.59                 |
| 10,321.0                   | 90.60           | 359.60      | 6,405.8               | 4,120.7      | -46.7        | -1,541.8                | 0.47                    | 0.47                   | 0.00                  |
| 10,385.0                   | 90.30           | 0.30        | 6,405.3               | 4,184.7      | -46.8        | -1,565.1                | 1.19                    | -0.47                  | 1.09                  |
| 10,448.0                   | 90.40           | 0.00        | 6,404.9               | 4,247.7      | -46.6        | -1,587.9                | 0.50                    | 0.16                   | -0.48                 |
| 10,512.0                   | 90.70           | 359.60      | 6,404.3               | 4,311.7      | -46.8        | -1,611.4                | 0.78                    | 0.47                   | -0.63                 |
| 10,575.0                   | 91.00           | 359.30      | 6,403.4               | 4,374.6      | -47.4        | -1,634.8                | 0.67                    | 0.48                   | -0.48                 |
| 10,639.0                   | 90.90           | 359.50      | 6,402.3               | 4,438.6      | -48.1        | -1,658.7                | 0.35                    | -0.16                  | 0.31                  |
| 10,702.0                   | 90.00           | 357.60      | 6,401.8               | 4,501.6      | -49.7        | -1,683.1                | 3.34                    | -1.43                  | -3.02                 |
| 10,765.0                   | 89.90           | 358.20      | 6,401.9               | 4,564.6      | -52.0        | -1,708.1                | 0.97                    | -0.16                  | 0.95                  |
| 10,797.0                   | 90.00           | 358.50      | 6,401.9               | 4,596.5      | -52.9        | -1,720.6                | 0.99                    | 0.31                   | 0.94                  |
| TD @ 10845' MD / 6402' TVD |                 |             |                       |              |              |                         |                         |                        |                       |
| 10,845.0                   | 90.00           | 358.50      | 6,401.9               | 4,644.5      | -54.2        | -1,739.2                | 0.00                    | 0.00                   | 0.00                  |

## Survey Annotations

| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates |              | Comment                                  |
|-----------------------|-----------------------|-------------------|--------------|------------------------------------------|
|                       |                       | +N/-S (usft)      | +E/-W (usft) |                                          |
| 5,680.0               | 5,678.3               | -25.7             | 65.9         | Tie In @ 5680' MD / 5678' TVD            |
| 6,420.0               | 6,324.6               | 246.4             | -0.8         | Crossed Hard Line @ 6420' MD / 6325' TVD |
| 10,845.0              | 6,401.9               | 4,644.5           | -54.2        | TD @ 10845' MD / 6402' TVD               |

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

Company Name Mewbourne Oil Co  
Cooksey 36 State Com #1H  
Eddy County, New Mexico  
Rig Patterson-UT1 #46  
Created By Dina Chance  
Date 1/9/2012

Cooksey 36 State Com #1H  
Eddy County, New Mexico  
Q110787 & WT-11721

# Mewbourne Oil Company



Azimuths to Grid North

Correction: 7.67°

Magnetic Field  
Strength: 48424 1snT  
Dip Angle: 59.94°  
Date: 11/23/2011  
Model: IGRF2010

## ANNOTATIONS

| MD      | Inc   | Azi    | TVD    | +N/-S  | +E/-W | V-Sect  | Departure | Annotation                             |
|---------|-------|--------|--------|--------|-------|---------|-----------|----------------------------------------|
| 5580.0  | 1.02  | 151.09 | 5678.5 | -25.7  | 65.9  | 70.7    | 120.4     | Tie In @ 5580 MD / 5678 TVD            |
| 6420.0  | 86.73 | 346.08 | 6324.6 | 246.4  | -9.8  | -90.5   | 405.1     | Crossed Hard Line @ 6420 MD / 6325 TVD |
| 10845.0 | 80.90 | 369.60 | 6401.9 | 4544.5 | -64.2 | -1739.2 | 4810.3    | TD @ 10845 MD / 6402 TVD               |

## DESIGN TARGET DETAILS

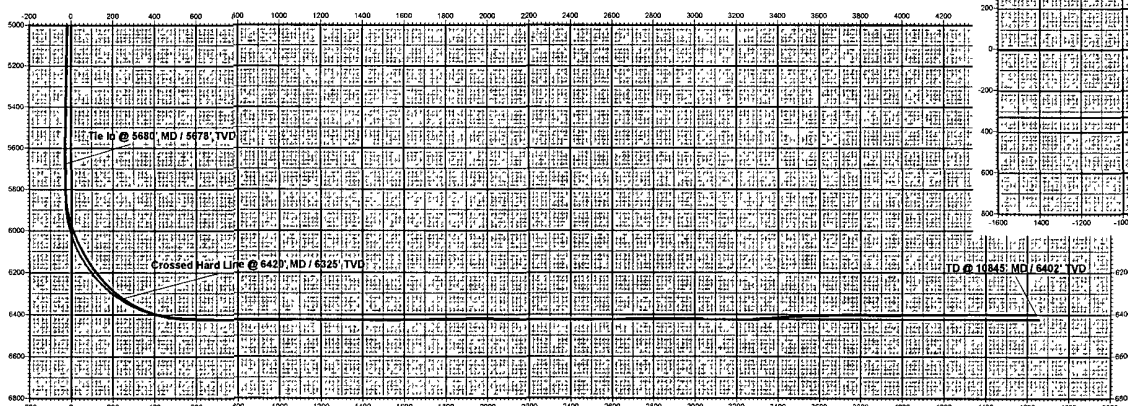
| Name                         | TVD    | +N/-S  | +E/-W | Northing  | Easting   | Latitude        | Longitude       |
|------------------------------|--------|--------|-------|-----------|-----------|-----------------|-----------------|
| PBH-Cooksey 36 State Com #1H | 6423.0 | 4656.7 | -60.6 | 597434.05 | 561114.83 | 32° 5' 33.030 N | 104° 8' 9.554 W |
| - plan hits target center    |        |        |       |           |           |                 |                 |

## PROJECT DETAILS: Eddy County, New Mexico

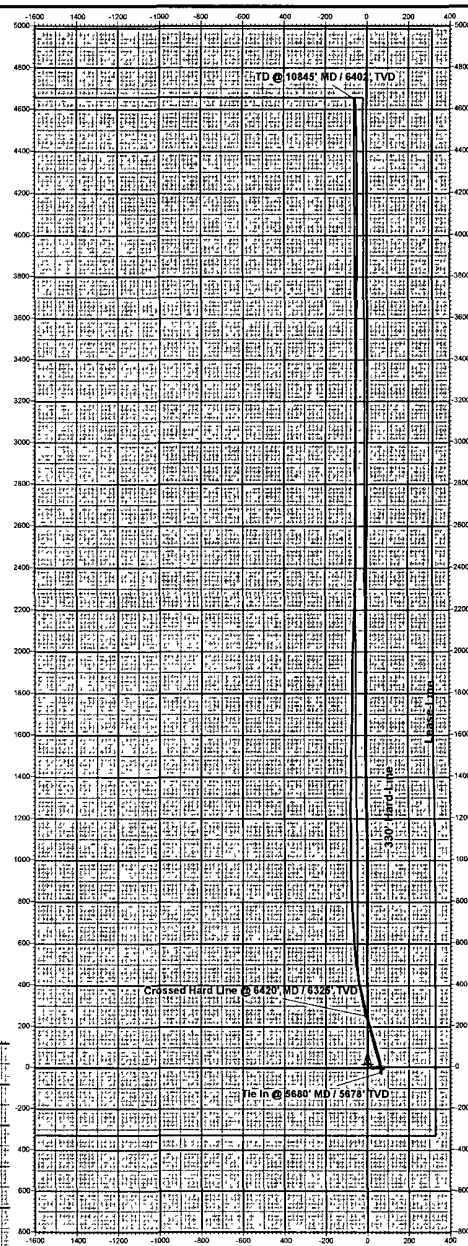
Geodetic System: US State Plane 1927 (Exact solution)  
Datum: NAD 1927 (NADCON CONUS)  
Ellipsoid: Clarke 1866  
Zone: New Mexico East 3001  
System Datum: Mean Sea Level

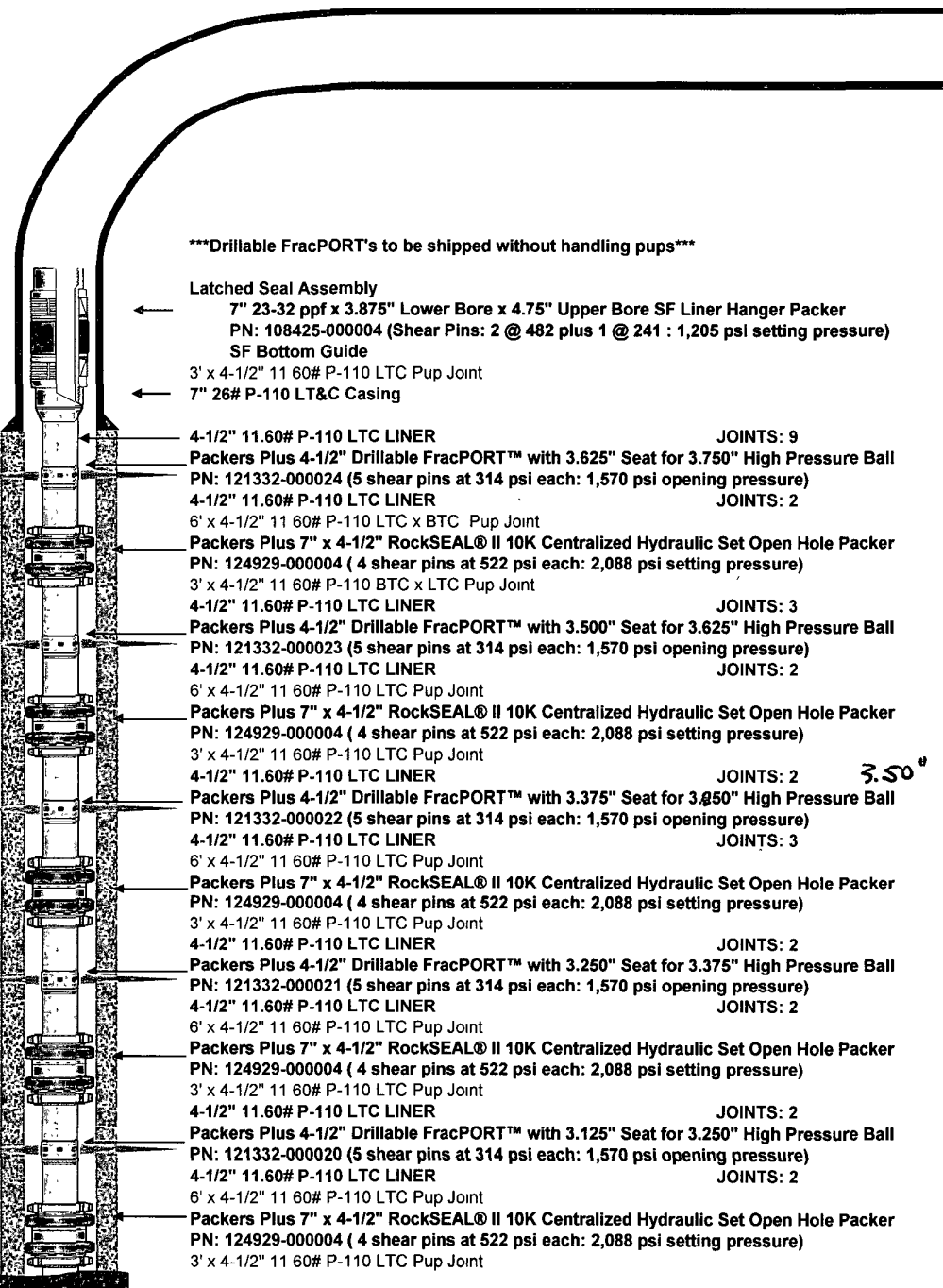
## WELL DETAILS Cooksey 36 State Com #1H

|       | Ground Level | 3082.0    |           |                 |                 |
|-------|--------------|-----------|-----------|-----------------|-----------------|
| +N/-S | +E/-W        | Northing  | Easting   | Latitude        | Longitude       |
| 0.0   | 0.0          | 592778.33 | 561175.38 | 32° 4' 46.964 N | 104° 8' 8.949 W |



Vertical Section at 359.25° (200 usf/in)



|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Do It Once.<br>Do It Right.   |        | Confidential Information - not to be disclosed<br>outside Mewbourne Oil Company |        | <b>Final<br/>Schematic</b> |  |
|----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|--------|---------------------------------------------------------------------------------|--------|----------------------------|--|
| Prepared for                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Company                       |        | Date                                                                            |        |                            |  |
| Mr. Mickey Young                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Mewbourne Oil Company         |        | 8-Jan-12                                                                        |        |                            |  |
| Well Name                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Type of installation          |        | Location                                                                        |        |                            |  |
| Cooksey -36- State Com #1H                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 20-Stage 4-1/2" StackFRAC® HD |        | Eddy County, NM                                                                 |        |                            |  |
| Depth                                                                                              | Drawing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Description                   | OD(in) | ID(in)                                                                          | Length |                            |  |
| <div style="text-align: right;">Page 1 of 3</div>                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                               |        |                                                                                 |        |                            |  |
| KOP<br>5916 00'<br>TVD<br>6401 00'<br>TOL<br>6521.49'<br>249.77 bbls<br>SNU0006821<br>Set @<br>65" |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                               |        |                                                                                 |        |                            |  |
| 7" Shoe @<br>6792 00'                                                                              | <p>***Drillable FracPORT's to be shipped without handling pups***</p> <p>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</p> <p>3' x 4-1/2" 11 60# P-110 LTC Pup Joint<br/>7" 26# P-110 LT&amp;C Casing</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                               |        |                                                                                 |        |                            |  |
| Stage 20<br>6873 61'<br>255 23 bbls<br>EA1000391<br>MD<br>6957 92'<br>EA3015553                    | <p>4-1/2" 11.60# P-110 LTC LINER JOINTS: 9<br/>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)<br/>4-1/2" 11.60# P-110 LTC LINER JOINTS: 2<br/>6' x 4-1/2" 11 60# P-110 LTC x BTC Pup Joint<br/>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)<br/>3' x 4-1/2" 11 60# P-110 BTC x LTC Pup Joint<br/>4-1/2" 11.60# P-110 LTC LINER JOINTS: 3<br/>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)<br/>4-1/2" 11.60# P-110 LTC LINER JOINTS: 2<br/>6' x 4-1/2" 11 60# P-110 LTC Pup Joint<br/>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)<br/>3' x 4-1/2" 11 60# P-110 LTC Pup Joint<br/>4-1/2" 11.60# P-110 LTC LINER JOINTS: 2 3.50"<br/>Packers Plus 4-1/2" Drillable FracPORT™ with 3.375" Seat for 3.450" High Pressure Ball<br/>PN: 121332-000022 (5 shear pins at 314 psi each; 1,570 psi opening pressure)<br/>4-1/2" 11.60# P-110 LTC LINER JOINTS: 3<br/>6' x 4-1/2" 11 60# P-110 LTC Pup Joint<br/>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)<br/>3' x 4-1/2" 11 60# P-110 LTC Pup Joint<br/>4-1/2" 11.60# P-110 LTC LINER JOINTS: 2<br/>Packers Plus 4-1/2" Drillable FracPORT™ with 3.250" Seat for 3.375" High Pressure Ball<br/>PN: 121332-000021 (5 shear pins at 314 psi each; 1,570 psi opening pressure)<br/>4-1/2" 11.60# P-110 LTC LINER JOINTS: 2<br/>6' x 4-1/2" 11 60# P-110 LTC Pup Joint<br/>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)<br/>3' x 4-1/2" 11 60# P-110 LTC Pup Joint<br/>4-1/2" 11.60# P-110 LTC LINER JOINTS: 2<br/>Packers Plus 4-1/2" Drillable FracPORT™ with 3.125" Seat for 3.250" High Pressure Ball<br/>PN: 121332-000020 (5 shear pins at 314 psi each; 1,570 psi opening pressure)<br/>4-1/2" 11.60# P-110 LTC LINER JOINTS: 2<br/>6' x 4-1/2" 11 60# P-110 LTC Pup Joint<br/>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)<br/>3' x 4-1/2" 11 60# P-110 LTC Pup Joint</p> |                               |        |                                                                                 |        |                            |  |
| Stage 19<br>7080 57'<br>258 44 bbls<br>EA1013239<br>MD<br>7165 20'<br>EA2010291                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                               |        |                                                                                 |        |                            |  |
| Stage 18<br>7251.93'<br>261.09 bbls<br>EA4000481<br>MD<br>7377 25'<br>EA3012513                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                               |        |                                                                                 |        |                            |  |
| Stage 17<br>7462 11'<br>264.35 bbls<br>EA1020173<br>MD<br>7548 10'<br>EA3012442                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                               |        |                                                                                 |        |                            |  |
| Stage 16<br>7632 98'<br>266 99 bbls<br>EA1020124<br>MD<br>7719 85'<br>EA3012427                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                               |        |                                                                                 |        |                            |  |
| Service Center                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Telephone                     |        | Contact                                                                         |        | Telephone                  |  |
| Midland, TX                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 432-563-8024                  |        | Scott Mabry                                                                     |        | Chad Williams 405-255-3223 |  |



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outside Mewbourne Oil Company

Final  
Schematic

| Prepared for               |         | Company                                                                                | Date                       |        |         |  |
|----------------------------|---------|----------------------------------------------------------------------------------------|----------------------------|--------|---------|--|
| Mr. Mickey Young           |         | Mewbourne Oil Company                                                                  | 8-Jan-12                   |        |         |  |
| Well Name                  |         | Type of Installation                                                                   | Location                   |        |         |  |
| Cooksey -36- State Com #1H |         | 20-Stage 4-1/2" StackFRAC® HD                                                          | Eddy County, NM            |        |         |  |
| Depth                      | Drawing | Description                                                                            | OD(in)                     | ID(in) | Length  |  |
| Page 2 of 3                |         |                                                                                        |                            |        |         |  |
| Stage 15                   |         | 4-1/2" 11.60# P-110 LTC LINER JOINTS: 3                                                | 4 500"                     | 4 000  | 114 94' |  |
| 7843.13'                   |         | Packers Plus 4-1/2" Drillable FracPORT™ with 3.000" Seat for 3.125" High Pressure Ball | 5 630"                     | 3,000  | 2 65'   |  |
| 270 26 bbls                |         | PN: 121332-000019 (5 shear pins at 314 psi each; 1,570 psi opening pressure)           |                            | 3,840  |         |  |
| EA1021795                  |         | 4-1/2" 11.60# P-110 LTC LINER JOINTS: 2                                                | 4 500"                     | 4 000  | 77 02'  |  |
| MD                         |         | 6' x 4-1/2" 11 60# P-110 LTC Pup Joint                                                 | 4 500"                     | 4 000  | 6.07'   |  |
| 7928 87'                   |         | Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer   | 5 750"                     | 3,875  | 5 25'   |  |
| EA2010248                  |         | PN: 124929-000004 (4 shear pins at 522 psi each; 2,088 psi setting pressure)           |                            |        |         |  |
|                            |         | 3' x 4-1/2" 11 60# P-110 LTC Pup Joint                                                 | 4 500"                     | 4 000  | 3 10'   |  |
|                            |         | 4-1/2" 11.60# P-110 LTC LINER JOINTS: 3                                                | 4 500"                     | 4 000  | 114 64' |  |
| 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'   |  |
| 8051 86'                   |         | PN: 121332-000018 (5 shear pins at 314 psi each; 1,570 psi opening pressure)           |                            | 3,840  |         |  |
| 273 49 bbls                |         | 4-1/2" 11.60# P-110 LTC LINER JOINTS: 2                                                | 4 500"                     | 4,000  | 76 47'  |  |
| EA1020037                  |         | 6' x 4-1/2" 11 60# P-110 LTC Pup Joint                                                 | 4 500"                     | 4 000  | 6 09'   |  |
| MD                         |         | Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer   | 5 750"                     | 3,875  | 5 25'   |  |
| 8137 07'                   |         | PN: 124929-000004 (4 shear pins at 522 psi each; 2,088 psi setting pressure)           |                            |        |         |  |
| EA3015541                  |         | 3' x 4-1/2" 11 60# P-110 LTC Pup Joint                                                 | 4 500"                     | 4 000  | 3 11'   |  |
|                            |         | 4-1/2" 11.60# P-110 LTC LINER JOINTS: 3                                                | 4 500"                     | 4 000  | 114 46' |  |
| 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'   |  |
| 8259.89'                   |         | PN: 121332-000017 (5 shear pins at 314 psi each; 1,570 psi opening pressure)           |                            | 3,840  |         |  |
| 276.72 bbls                |         | 4-1/2" 11.60# P-110 LTC LINER JOINTS: 2                                                | 4 500"                     | 4 000  | 76 48'  |  |
| EA1019976                  |         | 6' x 4-1/2" 11 60# P-110 LTC Pup Joint                                                 | 4 500"                     | 4 000  | 6 08'   |  |
| MD                         |         | Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer   | 5 750"                     | 3,875  | 5 25'   |  |
| 8345 10'                   |         | PN: 124929-000004 (4 shear pins at 522 psi each; 2,088 psi setting pressure)           |                            |        |         |  |
| EA3015544                  |         | 3' x 4-1/2" 11 60# P-110 LTC Pup Joint                                                 | 4 500"                     | 4 000  | 3 12'   |  |
|                            |         | 4-1/2" 11.60# P-110 LTC LINER JOINTS: 3                                                | 4 500"                     | 4 000  | 115 35' |  |
| 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'   |  |
| 8468 82'                   |         | PN: 121332-000016 (5 shear pins at 314 psi each; 1,570 psi opening pressure)           |                            | 3,840  |         |  |
| 279.95 bbls                |         | 4-1/2" 11.60# P-110 LTC LINER JOINTS: 3                                                | 4 500"                     | 4 000  | 114 32' |  |
| EA1019906                  |         | 6' x 4-1/2" 11 60# P-110 LTC Pup Joint                                                 | 4 500"                     | 4 000  | 6 08'   |  |
| MD                         |         | Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer   | 5 750"                     | 3,875  | 5 25'   |  |
| 8591 87'                   |         | PN: 124929-000004 (4 shear pins at 522 psi each; 2,088 psi setting pressure)           |                            |        |         |  |
| EA3015546                  |         | 3' x 4-1/2" 11 60# P-110 LTC Pup Joint                                                 | 4 500"                     | 4 000  | 3 10'   |  |
|                            |         | 4-1/2" 11.60# P-110 LTC LINER JOINTS: 3                                                | 4 500"                     | 4 000  | 115 87' |  |
| 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'   |  |
| 8716.09'                   |         | PN: 121332-000015 (5 shear pins at 314 psi each; 1,570 psi opening pressure)           |                            | 3,840  |         |  |
| 283.79 bbls                |         | 4-1/2" 11.60# P-110 LTC LINER JOINTS: 2                                                | 4 500"                     | 4 000  | 76 21'  |  |
| EA1021627                  |         | 6' x 4-1/2" 11 60# P-110 LTC Pup Joint                                                 | 4 500"                     | 4 000  | 6 08'   |  |
| MD                         |         | Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer   | 5 750"                     | 3,875  | 5 25'   |  |
| 8801 03'                   |         | PN: 124929-000004 (4 shear pins at 522 psi each; 2,088 psi setting pressure)           |                            |        |         |  |
| EA3015545                  |         | 3' x 4-1/2" 11 60# P-110 LTC Pup Joint                                                 | 4 500"                     | 4 000  | 3 11'   |  |
|                            |         | 4-1/2" 11.60# P-110 LTC LINER JOINTS: 3                                                | 4 500"                     | 4 000  | 115 96' |  |
| 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'   |  |
| 8925 35'                   |         | PN: 121332-000014 (5 shear pins at 314 psi each; 1,570 psi opening pressure)           |                            | 3,840  |         |  |
| 287.03 bbls                |         | 4-1/2" 11.60# P-110 LTC LINER JOINTS: 3                                                | 4 500"                     | 4 000  | 114 12' |  |
| EA1019146                  |         | 6' x 4-1/2" 11 60# P-110 LTC Pup Joint                                                 | 4 500"                     | 4 000  | 6 09'   |  |
| MD                         |         | Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer   | 5 750"                     | 3,875  | 5 25'   |  |
| 9048.21'                   |         | PN: 124929-000004 (4 shear pins at 522 psi each; 2,088 psi setting pressure)           |                            |        |         |  |
| EA3015543                  |         | 3' x 4-1/2" 11 60# P-110 LTC Pup Joint                                                 | 4 500"                     | 4 000  | 3 11'   |  |
|                            |         | 4-1/2" 11.60# P-110 LTC LINER JOINTS: 2                                                | 4 500"                     | 4 000  | 76 61'  |  |
| 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'   |  |
| 9133.18'                   |         | PN: 121332-000013 (5 shear pins at 314 psi each; 1,570 psi opening pressure)           |                            | 3,840  |         |  |
| 290 25 bbls                |         | 4-1/2" 11.60# P-110 LTC LINER JOINTS: 3                                                | 4 500"                     | 4 000  | 117 54' |  |
| EA1019087                  |         | 6' x 4-1/2" 11 60# P-110 LTC Pup Joint                                                 | 4 500"                     | 4 000  | 6 08'   |  |
| MD                         |         | Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer   | 5 750"                     | 3,875  | 5 25'   |  |
| 9259 45'                   |         | PN: 124929-000004 (4 shear pins at 522 psi each; 2,088 psi setting pressure)           |                            |        |         |  |
| EA3015552                  |         | 3' x 4-1/2" 11.60# P-110 LTC Pup Joint                                                 | 4 500"                     | 4 000  | 3 11'   |  |
|                            |         | 4-1/2" 11.60# P-110 LTC LINER JOINTS: 3                                                | 4 500"                     | 4 000  | 115 91' |  |
| 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'   |  |
| 9383 72'                   |         | PN: 121332-000012 (5 shear pins at 314 psi each; 1,570 psi opening pressure)           |                            | 3,840  |         |  |
| 294 13 bbls                |         | 4-1/2" 11.60# P-110 LTC LINER JOINTS: 3                                                | 4 500"                     | 4 000  | 115 01' |  |
| EA1019027                  |         |                                                                                        |                            |        |         |  |
| Service Center             |         | Telephone                                                                              | Telephone                  |        |         |  |
| Midland, TX                |         | 432-563-8024                                                                           | Scott Mabry                |        |         |  |
|                            |         |                                                                                        | Chad Williams 405-255-3223 |        |         |  |

|  |         | <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/>Schematic</b> |  |
|-----------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------------------------------------------------------------|---------|----------------------------|--|
| Prepared for                                                                      |         | Company                                                                                                                                                                       |             | Date                                                                                    |         |                            |  |
| <b>Mr. Mickey Young</b>                                                           |         | <b>Mewbourne Oil Company</b>                                                                                                                                                  |             | <b>8-Jan-12</b>                                                                         |         |                            |  |
| Well Name                                                                         |         | Type of Installation                                                                                                                                                          |             | Location                                                                                |         |                            |  |
| <b>Cooksey -36- State Com #1H</b>                                                 |         | <b>20-Stage 4-1/2" StackFRAC® HD</b>                                                                                                                                          |             | <b>Eddy County, NM</b>                                                                  |         |                            |  |
| Depth                                                                             | Drawing | Description                                                                                                                                                                   | OD(in)      | ID(in)                                                                                  | Length  |                            |  |
| MD                                                                                |         |                                                                                                                                                                               |             |                                                                                         |         |                            |  |
| 9507.46'                                                                          |         | 6' x 4-1/2" 11 60# P-110 LTC Pup Joint                                                                                                                                        | 4 500"      | 4 000                                                                                   | 6 08'   |                            |  |
| EA3015548                                                                         |         | <b>Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer</b><br>PN: 124929-000004 ( 4 shear pins at 522 psi each; 2,088 psi setting pressure)  | 5 750"      | 3.875                                                                                   | 5 25'   |                            |  |
|                                                                                   |         | 3' x 4-1/2" 11 60# P-110 LTC Pup Joint                                                                                                                                        | 4,500"      | 4 000                                                                                   | 3 10'   |                            |  |
|                                                                                   |         | 4-1/2" 11.60# P-110 LTC LINER                                                                                                                                                 | 4 500"      | 4 000                                                                                   | 76 88'  |                            |  |
| Stage 7                                                                           |         | <b>Packers Plus 4-1/2" Drillable FracPORT™ with 2.000" Seat for 2.125" High Pressure Ball</b><br>PN: 121332-000011 (5 shear pins at 314 psi each; 1,570 psi opening pressure) | 5 630"      | 2.000                                                                                   | 2 65'   |                            |  |
| 9592.69'                                                                          |         | 4-1/2" 11.60# P-110 LTC LINER                                                                                                                                                 |             | 3.840                                                                                   |         |                            |  |
| 297 37 bbls                                                                       |         | JOINTS: 2                                                                                                                                                                     |             |                                                                                         |         |                            |  |
| EA1021401                                                                         |         | 4-1/2" 11.60# P-110 LTC LINER                                                                                                                                                 | 4 500"      | 4 000                                                                                   | 115 10' |                            |  |
| MD                                                                                |         | 6' x 4-1/2" 11 60# P-110 LTC Pup Joint                                                                                                                                        | 4 500"      | 4 000                                                                                   | 6 09'   |                            |  |
| 9716.53'                                                                          |         | <b>Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer</b><br>PN: 124929-000004 ( 4 shear pins at 522 psi each; 2,088 psi setting pressure)  | 5 750"      | 3.875                                                                                   | 5 25'   |                            |  |
| EA3015547                                                                         |         | 3' x 4-1/2" 11 60# P-110 LTC Pup Joint                                                                                                                                        | 4 500"      | 4 000                                                                                   | 3 10'   |                            |  |
|                                                                                   |         | 4-1/2" 11.60# P-110 LTC LINER                                                                                                                                                 | 4 500"      | 4 000                                                                                   | 76 65'  |                            |  |
| Stage 6                                                                           |         | <b>Packers Plus 4-1/2" Drillable FracPORT™ with 1.875" Seat for 2.000" High Pressure Ball</b><br>PN: 121332-000010 (5 shear pins at 314 psi each; 1,570 psi opening pressure) | 5 630"      | 1.875                                                                                   | 2 65'   |                            |  |
| 9801.53'                                                                          |         | 4-1/2" 11.60# P-110 LTC LINER                                                                                                                                                 |             | 3.840                                                                                   |         |                            |  |
| 300 61 bbls                                                                       |         | JOINTS: 2                                                                                                                                                                     |             |                                                                                         |         |                            |  |
| EA1019668                                                                         |         | 4-1/2" 11.60# P-110 LTC LINER                                                                                                                                                 | 4 500"      | 4 000                                                                                   | 114 92' |                            |  |
| MD                                                                                |         | 6' x 4-1/2" 11 60# P-110 LTC Pup Joint                                                                                                                                        | 4 500"      | 4 000                                                                                   | 6 09'   |                            |  |
| 9925.19'                                                                          |         | <b>Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer</b><br>PN: 124929-000004 ( 4 shear pins at 522 psi each; 2,088 psi setting pressure)  | 5 750"      | 3.875                                                                                   | 5 25'   |                            |  |
| EA3015551                                                                         |         | 3' x 4-1/2" 11 60# P-110 LTC Pup Joint                                                                                                                                        | 4 500"      | 4 000                                                                                   | 3 11'   |                            |  |
|                                                                                   |         | 4-1/2" 11.60# P-110 LTC LINER                                                                                                                                                 | 4 500"      | 4 000                                                                                   | 76 48'  |                            |  |
| Stage 5                                                                           |         | <b>Packers Plus 4-1/2" Drillable FracPORT™ with 1.750" Seat for 1.875" High Pressure Ball</b><br>PN: 121332-000009 (5 shear pins at 314 psi each; 1,570 psi opening pressure) | 5 630"      | 1.750                                                                                   | 2 65'   |                            |  |
| 10010.03'                                                                         |         | 4-1/2" 11.60# P-110 LTC LINER                                                                                                                                                 |             | 3.840                                                                                   |         |                            |  |
| 303.84 bbls                                                                       |         | JOINTS: 2                                                                                                                                                                     |             |                                                                                         |         |                            |  |
| EA1020988                                                                         |         | 4-1/2" 11.60# P-110 LTC LINER                                                                                                                                                 | 4 500"      | 4 000                                                                                   | 75 06'  |                            |  |
| MD                                                                                |         | 6' x 4-1/2" 11 60# P-110 LTC Pup Joint                                                                                                                                        | 4 500"      | 4 000                                                                                   | 6 09'   |                            |  |
| 10093.83'                                                                         |         | <b>Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer</b><br>PN: 124929-000004 ( 4 shear pins at 522 psi each; 2,088 psi setting pressure)  | 5 750"      | 3.875                                                                                   | 5 25'   |                            |  |
| EA3015550                                                                         |         | 3' x 4-1/2" 11 60# P-110 LTC Pup Joint                                                                                                                                        | 4 500"      | 4 000                                                                                   | 3 11'   |                            |  |
|                                                                                   |         | 4-1/2" 11.60# P-110 LTC LINER                                                                                                                                                 | 4 500"      | 4 000                                                                                   | 116 88' |                            |  |
| Stage 4                                                                           |         | <b>Packers Plus 4-1/2" Drillable FracPORT™ with 1.625" Seat for 1.750" High Pressure Ball</b><br>PN: 121332-000008 (5 shear pins at 314 psi each; 1,570 psi opening pressure) | 5 630"      | 1.625                                                                                   | 2 65'   |                            |  |
| 10219.07'                                                                         |         | 4-1/2" 11.60# P-110 LTC LINER                                                                                                                                                 |             | 3.840                                                                                   |         |                            |  |
| 307.08 bbls                                                                       |         | JOINTS: 2                                                                                                                                                                     |             |                                                                                         |         |                            |  |
| EA1016642                                                                         |         | 4-1/2" 11.60# P-110 LTC LINER                                                                                                                                                 | 4 500"      | 4 000                                                                                   | 76 41'  |                            |  |
| MD                                                                                |         | 6' x 4-1/2" 11 60# P-110 LTC Pup Joint                                                                                                                                        | 4 500"      | 4 000                                                                                   | 6 09'   |                            |  |
| 10304.22'                                                                         |         | <b>Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer</b><br>PN: 124929-000004 ( 4 shear pins at 522 psi each; 2,088 psi setting pressure)  | 5 750"      | 3.875                                                                                   | 5 25'   |                            |  |
| EA3015539                                                                         |         | 3' x 4-1/2" 11 60# P-110 LTC Pup Joint                                                                                                                                        | 4 500"      | 4 000                                                                                   | 3 11'   |                            |  |
|                                                                                   |         | 4-1/2" 11.60# P-110 LTC LINER                                                                                                                                                 | 4 500"      | 4 000                                                                                   | 77 37'  |                            |  |
| Stage 3                                                                           |         | <b>Packers Plus 4-1/2" Drillable FracPORT™ with 1.500" Seat for 1.625" High Pressure Ball</b><br>PN: 121332-000007 (5 shear pins at 314 psi each; 1,570 psi opening pressure) | 5 630"      | 1.500                                                                                   | 2 65'   |                            |  |
| 10389.95'                                                                         |         | 4-1/2" 11.60# P-110 LTC LINER                                                                                                                                                 |             | 3.840                                                                                   |         |                            |  |
| 309 73 bbls                                                                       |         | JOINTS: 2                                                                                                                                                                     |             |                                                                                         |         |                            |  |
| EA1018811                                                                         |         | 4-1/2" 11.60# P-110 LTC LINER                                                                                                                                                 | 4 500"      | 4 000                                                                                   | 76 56'  |                            |  |
| MD                                                                                |         | 6' x 4-1/2" 11 60# P-110 LTC Pup Joint                                                                                                                                        | 4 500"      | 4 000                                                                                   | 6 08'   |                            |  |
| 10475.24'                                                                         |         | <b>Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer</b><br>PN: 124929-000004 ( 4 shear pins at 522 psi each; 2,088 psi setting pressure)  | 5 750"      | 3.875                                                                                   | 5 25'   |                            |  |
| EA3015542                                                                         |         | 3' x 4-1/2" 11 60# P-110 LTC Pup Joint                                                                                                                                        | 4 500"      | 4 000                                                                                   | 3 13'   |                            |  |
|                                                                                   |         | 4-1/2" 11.60# P-110 LTC LINER                                                                                                                                                 | 4 500"      | 4 000                                                                                   | 116 66' |                            |  |
| Stage 2                                                                           |         | <b>Packers Plus 4-1/2" Drillable FracPORT™ with 1.375" Seat for 1.500" High Pressure Ball</b><br>PN: 121332-000006 (5 shear pins at 314 psi each; 1,570 psi opening pressure) | 5 630"      | 1.375                                                                                   | 2 65'   |                            |  |
| 10600.28'                                                                         |         | 4-1/2" 11.60# P-110 LTC LINER                                                                                                                                                 |             | 3.840                                                                                   |         |                            |  |
| 312.99 bbls                                                                       |         | JOINTS: 2                                                                                                                                                                     |             |                                                                                         |         |                            |  |
| EA0057815                                                                         |         | 4-1/2" 11.60# P-110 LTC LINER                                                                                                                                                 | 4 500"      | 4 000                                                                                   | 76 68'  |                            |  |
| MD                                                                                |         | 6' x 4-1/2" 11 60# P-110 LTC Pup Joint                                                                                                                                        | 4 500"      | 4 000                                                                                   | 6 06'   |                            |  |
| 10685.67'                                                                         |         | <b>Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer</b><br>PN: 124929-000004 ( 4 shear pins at 522 psi each; 2,088 psi setting pressure)  | 5 750"      | 3.875                                                                                   | 5 25'   |                            |  |
| EA3015549                                                                         |         | 3' x 4-1/2" 11 60# P-110 LTC Pup Joint                                                                                                                                        | 4 500"      | 4 000                                                                                   | 3 11'   |                            |  |
|                                                                                   |         | 4-1/2" 11.60# P-110 LTC LINER                                                                                                                                                 | 4 500"      | 4 000                                                                                   | 78.04'  |                            |  |
| Stage 1                                                                           |         | <b>Customer 4-1/2" Pump Off Sub</b><br>(Pinned above 4000 PSI)                                                                                                                |             |                                                                                         | 2 93'   |                            |  |
| 10772.07'                                                                         |         |                                                                                                                                                                               |             |                                                                                         |         |                            |  |
| 315 65 bbls                                                                       |         |                                                                                                                                                                               |             |                                                                                         |         |                            |  |
| Service Center                                                                    |         | Telephone                                                                                                                                                                     | Contact     | Telephone                                                                               |         |                            |  |
| Midland, TX                                                                       |         | 432-563-8024                                                                                                                                                                  | Scott Mabry | Chad Williams 405-255-3223                                                              |         |                            |  |

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