

Aries 20 Federal Com #4H

450' FSL & 330' FWL, Sec 20, T18S, R30E

Eddy Co., NM

30-015-40427

WELL BORE #1

P & A 1-3-13  
(sundry dated 2-7-13)



Job Number: SVCO-121295

Company: Mewbourne Oil & Gas

Lease/Well: Arles 20 Fed Com 4H

Location: Eddy County, NM

Rig Name: Patterson #45

RKB: 17.5'

G.L. or M.S.L.: GL

*Label bore #1  
1/2 #2*

State/Country: New Mexico/USA

Declination: 7.76°

Grid: East To Grid North

File name: F:\SURVEY\2012SU~1\MEWBOU~1\CONROE\ARLES\20FC4H.SVY

Date/Time: 13-Sep-12 / 08:26

Curve Name: Surface - 7500' M.D. (SRG)

Received

OCT 02 2012

Mewbourne Oil Company  
Hobbs

# WINSERVE SURVEY CALCULATIONS

Minimum Curvature Method

Vertical Section Plane 87.34

Vertical Section Referenced to Wellhead

Rectangular Coordinates Referenced to Wellhead

We hereby certify that our survey data from  
Surface MD to 7500' MD is, to the best of  
our knowledge a true and accurate account of the  
well bore.

*Bryan Roberts*  
MS Energy Services

*9/13/12*  
Date

| Measured<br>Depth<br>FT | Incl<br>Angle<br>Deg | Drift<br>Direction<br>Deg | True<br>Vertical<br>Depth | N-S<br>FT | E-W<br>FT | Vertical<br>Section<br>FT | C L O S U R E  |                  | Dogleg<br>Severity<br>Deg/100 |
|-------------------------|----------------------|---------------------------|---------------------------|-----------|-----------|---------------------------|----------------|------------------|-------------------------------|
|                         |                      |                           |                           |           |           |                           | Distance<br>FT | Direction<br>Deg |                               |
| .00                     | .00                  | .00                       | .00                       | .00       | .00       | .00                       | .00            | .00              | .00                           |
| 200.00                  | .35                  | 99.78                     | 200.00                    | -.10      | .60       | .60                       | .61            | 99.78            | .17                           |
| 400.00                  | .44                  | 80.63                     | 399.99                    | -.08      | 1.96      | 1.96                      | 1.96           | 92.41            | .08                           |
| 600.00                  | .47                  | 60.46                     | 599.99                    | .45       | 3.43      | 3.45                      | 3.46           | 82.58            | .08                           |
| 800.00                  | .09                  | 185.65                    | 799.99                    | .70       | 4.13      | 4.16                      | 4.19           | 80.45            | .26                           |
| 1000.00                 | .58                  | 70.11                     | 999.98                    | .88       | 5.07      | 5.10                      | 5.14           | 80.11            | .31                           |
| 1200.00                 | 1.42                 | 67.23                     | 1199.95                   | 2.19      | 8.30      | 8.40                      | 8.59           | 75.25            | .42                           |
| 1400.00                 | 1.56                 | 55.46                     | 1399.88                   | 4.69      | 12.83     | 13.04                     | 13.66          | 69.93            | .17                           |
| 1600.00                 | 1.56                 | 29.34                     | 1599.81                   | 8.61      | 16.41     | 16.79                     | 18.53          | 62.32            | .35                           |
| 1800.00                 | 1.58                 | 21.25                     | 1799.74                   | 13.55     | 18.74     | 19.35                     | 23.13          | 54.14            | .11                           |

| Measured<br>Depth<br>FT | Incl<br>Angle<br>Deg | Drift<br>Direction<br>Deg | True<br>Vertical<br>Depth | N-S<br>FT | E-W<br>FT | Vertical<br>Section<br>FT | CLOSURE        |                  | Dogleg<br>Severity<br>Deg/100 |
|-------------------------|----------------------|---------------------------|---------------------------|-----------|-----------|---------------------------|----------------|------------------|-------------------------------|
|                         |                      |                           |                           |           |           |                           | Distance<br>FT | Direction<br>Deg |                               |
| 2000.00                 | 1.81                 | 24.26                     | 1999.65                   | 19.00     | 21.04     | 21.90                     | 28.35          | 47.92            | .12                           |
| 2200.00                 | 1.73                 | 24.20                     | 2199.55                   | 24.63     | 23.57     | 24.69                     | 34.10          | 43.74            | .04                           |
| 2400.00                 | 1.44                 | 33.47                     | 2399.48                   | 29.48     | 26.20     | 27.54                     | 39.44          | 41.62            | .19                           |
| 2600.00                 | 2.11                 | 31.87                     | 2599.38                   | 34.70     | 29.53     | 31.11                     | 45.57          | 40.39            | .34                           |
| 2800.00                 | 1.24                 | 14.95                     | 2799.29                   | 39.92     | 32.03     | 33.85                     | 51.18          | 38.74            | .50                           |
| 3000.00                 | 1.23                 | 11.97                     | 2999.25                   | 44.11     | 33.03     | 35.05                     | 55.11          | 36.83            | .03                           |
| 3200.00                 | 1.49                 | 359.74                    | 3199.19                   | 48.81     | 33.47     | 35.70                     | 59.18          | 34.43            | .19                           |
| 3400.00                 | .68                  | 10.76                     | 3399.15                   | 52.58     | 33.68     | 36.08                     | 62.44          | 32.64            | .42                           |
| 3600.00                 | .83                  | 3.49                      | 3599.14                   | 55.19     | 33.99     | 36.51                     | 64.82          | 31.62            | .09                           |
| 3800.00                 | 1.04                 | 295.48                    | 3799.12                   | 57.42     | 32.44     | 35.07                     | 65.95          | 29.46            | .53                           |
| 4000.00                 | .69                  | 321.98                    | 3999.09                   | 59.15     | 30.06     | 32.77                     | 66.35          | 26.94            | .26                           |
| 4200.00                 | 1.76                 | 247.41                    | 4199.05                   | 58.92     | 26.48     | 29.18                     | 64.59          | 24.20            | .86                           |
| 4400.00                 | 2.95                 | 257.53                    | 4398.88                   | 56.63     | 18.62     | 21.22                     | 59.61          | 18.20            | .63                           |
| 4600.00                 | 4.25                 | 260.59                    | 4598.48                   | 54.30     | 6.28      | 8.79                      | 54.66          | 6.60             | .66                           |
| 4800.00                 | 4.49                 | 269.16                    | 4797.90                   | 52.98     | -8.86     | -6.39                     | 53.71          | 350.51           | .35                           |
| 5000.00                 | 4.09                 | 274.80                    | 4997.34                   | 53.46     | -23.79    | -21.29                    | 58.51          | 336.01           | .29                           |
| 5200.00                 | 3.85                 | 272.49                    | 5196.86                   | 54.35     | -37.61    | -35.05                    | 66.09          | 325.32           | .14                           |
| 5400.00                 | 3.21                 | 283.99                    | 5396.49                   | 55.99     | -49.75    | -47.10                    | 74.90          | 318.38           | .48                           |
| 5600.00                 | 2.75                 | 276.05                    | 5596.22                   | 57.85     | -59.96    | -57.21                    | 83.32          | 313.98           | .31                           |
| 5800.00                 | 2.04                 | 294.65                    | 5796.04                   | 59.84     | -67.96    | -65.11                    | 90.55          | 311.36           | .52                           |
| 6000.00                 | 1.90                 | 342.45                    | 5995.94                   | 64.49     | -72.20    | -69.13                    | 96.81          | 311.77           | .80                           |
| 6200.00                 | .88                  | 350.08                    | 6195.88                   | 69.16     | -73.46    | -70.17                    | 100.90         | 313.27           | .52                           |
| 6400.00                 | 1.49                 | 10.98                     | 6395.83                   | 73.23     | -73.23    | -69.75                    | 103.56         | 315.00           | .37                           |
| 6600.00                 | 1.93                 | 13.42                     | 6595.74                   | 79.06     | -71.95    | -68.21                    | 106.90         | 317.69           | .22                           |
| 6800.00                 | .68                  | 10.46                     | 6795.69                   | 83.50     | -70.96    | -67.01                    | 109.58         | 319.64           | .63                           |
| 7000.00                 | 1.21                 | 239.95                    | 6995.67                   | 83.61     | -72.57    | -68.61                    | 110.71         | 319.04           | .87                           |
| 7200.00                 | 1.55                 | 247.07                    | 7195.62                   | 81.50     | -76.89    | -73.02                    | 112.04         | 316.67           | .19                           |
| 7400.00                 | 1.91                 | 254.54                    | 7395.52                   | 79.56     | -82.59    | -78.81                    | 114.68         | 313.93           | .21                           |

**Last Survey Depth Recorded**

|         |      |        |         |       |               |        |        |        |     |
|---------|------|--------|---------|-------|---------------|--------|--------|--------|-----|
| 7500.00 | 1.79 | 248.12 | 7495.47 | 78.53 | Page 2 -85.65 | -81.91 | 116.20 | 312.52 | .24 |
|---------|------|--------|---------|-------|---------------|--------|--------|--------|-----|

OPERATOR  
WELL/LEASE  
COUNTY

MEWBOURNE OIL COMPANY  
ARIES 20 FED COM 4H  
EDDY

045-0086

*Well bore #1*

STATE OF NEW MEXICO  
DEVIATION REPORT

|       |      |       |      |
|-------|------|-------|------|
| 239   | 0.47 | 7,246 | 1.59 |
| 451   | 0.48 |       |      |
| 689   | 0.49 |       |      |
| 937   | 0.35 |       |      |
| 1,192 | 1.00 |       |      |
| 1,447 | 0.96 |       |      |
| 1,749 | 1.41 |       |      |
| 2,003 | 1.82 |       |      |
| 2,256 | 0.70 |       |      |
| 2,574 | 1.76 |       |      |
| 2,826 | 1.51 |       |      |
| 3,082 | 1.47 |       |      |
| 3,368 | 1.09 |       |      |
| 3,685 | 0.90 |       |      |
| 4,035 | 1.15 |       |      |
| 4,352 | 1.89 |       |      |
| 4,543 | 3.33 |       |      |
| 4,669 | 4.57 |       |      |
| 4,799 | 4.66 |       |      |
| 4,894 | 4.27 |       |      |
| 4,989 | 4.18 |       |      |
| 5,116 | 4.30 |       |      |
| 5,211 | 3.66 |       |      |
| 5,307 | 3.59 |       |      |
| 5,404 | 3.19 |       |      |
| 5,497 | 2.93 |       |      |
| 5,626 | 2.58 |       |      |
| 5,720 | 2.53 |       |      |
| 5,815 | 2.32 |       |      |
| 5,943 | 2.13 |       |      |
| 6,132 | 0.81 |       |      |
| 6,356 | 1.63 |       |      |
| 6,452 | 1.59 |       |      |
| 6,579 | 1.90 |       |      |
| 6,674 | 2.19 |       |      |
| 6,801 | 0.67 |       |      |
| 6,960 | 0.36 |       |      |

BY:

*[Signature]*

STATE OF TEXAS

COUNTY OF MIDLAND

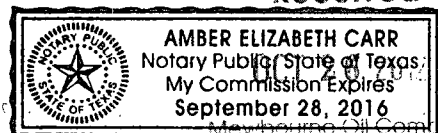
The foregoing instrument was acknowledged before me on  
Steve Moore on behalf of Patterson-UTI Drilling Company LLC.

10/15/2012, by

*Amber Elizabeth Carr*

Notary Public for Midland County, Texas  
My Commission Expires:

Received



*Hobbs*

# **Mewbourne Oil Co**

**Eddy County, New Mexico**

**Sec 20-18S-30E**

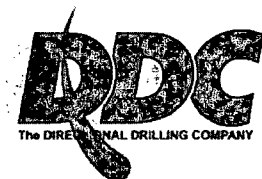
**Aries 20 Fed Com #4H**

**Wellbore #1**

**Survey: MWD**

## **DDC Survey Report**

**28 September, 2012**



DDC  
Survey Report

Wellbore #1



|                  |                         |                                     |                                        |
|------------------|-------------------------|-------------------------------------|----------------------------------------|
| <b>Company:</b>  | Mewbourne Oil Co        | <b>Local Co-ordinate Reference:</b> | Well Aries 20 Fed Com #4H              |
| <b>Project:</b>  | Eddy County, New Mexico | <b>TVD Reference:</b>               | WELL @ 3493.0usft (Patterson, UTI #45) |
| <b>Site:</b>     | Sec 20-18S-30E          | <b>MD Reference:</b>                | WELL @ 3493.0usft (Patterson UTI #45)  |
| <b>Well:</b>     | Aries 20 Fed Com #4H    | <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             |

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

|                       |          |                |                 |                   |                 |
|-----------------------|----------|----------------|-----------------|-------------------|-----------------|
| Site                  |          | Sec 20-18S-30E |                 |                   |                 |
| Site Position:        |          | Northing:      | 631,082.30 usft | Latitude:         | 32° 44' 4.205 N |
| From:                 | Map      | Easting:       | 602,014.20 usft | Longitude:        | 104° 0' 5.683 W |
| Position Uncertainty: | 0.0 usft | Slot Radius:   | 13-3/16 "       | Grid Convergence: | 0.18 °          |

|                      |                      |          |                     |                 |               |                  |
|----------------------|----------------------|----------|---------------------|-----------------|---------------|------------------|
| Well                 | Aries 20 Fed Com #4H |          |                     |                 |               |                  |
| Well Position        | +N-S                 | 0.0 usft | Northing:           | 628,306.43 usft | Latitude:     | 32° 43' 36.733 N |
|                      | +E-W                 | 0.0 usft | Easting:            | 602,152.98 usft | Longitude:    | 104° 0' 4.160 W  |
| Position Uncertainty |                      | 0.0 usft | Wellhead Elevation: | usft            | Ground Level: | 3,475.0 usft     |

|           |             |             |                 |               |                     |
|-----------|-------------|-------------|-----------------|---------------|---------------------|
| Wellbore  | Wellbore #1 |             |                 |               |                     |
| Magnetics | Model Name  | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
|           | IGRF2010    | 8/30/2012   | 7.67            | 60.55         | 48,750              |

|                   |  |                            |                 |                   |                  |
|-------------------|--|----------------------------|-----------------|-------------------|------------------|
| Design            |  | Wellbore #1                |                 |                   |                  |
| Audit Notes:      |  |                            |                 |                   |                  |
| Version: 1.0      |  | Phase:                     | ACTUAL          | Tie On Depth: 0.0 |                  |
| Vertical Section: |  | Depth From (TVD)<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft)   | Direction<br>(°) |
|                   |  | 0.0                        | 0.0             | 0.0               | 87.34            |

| Survey Program |              | Date               | 9/28/2012   |                |
|----------------|--------------|--------------------|-------------|----------------|
| From<br>(usft) | To<br>(usft) | Survey (Wellbore)  | Tool Name   | Description    |
| 200.0          | 7,500.0      | Gyro (Wellbore #1) | Good_gyro   | Good Gyro      |
| 7,672.0        | 12,685.0     | MWD (Wellbore #1)  | MWD default | MWD - Standard |

| Survey                        |                    |                |                             |                 |                 |                               |                               |                              |                             |  |
|-------------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|--|
| Measured<br>Depth<br>(usft)   | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Vertical<br>Section<br>(usft) | Dogleg<br>Rate<br>(°/100usft) | Build<br>Rate<br>(°/100usft) | Turn<br>Rate<br>(°/100usft) |  |
| TIE IN @ 7500' MD / 7500' TVD |                    |                |                             |                 |                 |                               |                               |                              |                             |  |
| 7,500.0                       | 1.79               | 248.12         | 7,495.5                     | 78.5            | -85.6           | -81.9                         | 0.00                          | 0.00                         | 0.00                        |  |
| 7,672.0                       | 1.30               | 223.00         | 7,667.4                     | 76.1            | -89.5           | -85.8                         | 0.48                          | -0.28                        | -14.60                      |  |
| 7,704.0                       | 1.70               | 103.80         | 7,699.4                     | 75.7            | -89.3           | -85.6                         | 8.11                          | 1.25                         | -372.50                     |  |
| 7,736.0                       | 6.20               | 86.10          | 7,731.3                     | 75.7            | -87.1           | -83.5                         | 14.40                         | 14.06                        | -55.31                      |  |
| 7,768.0                       | 10.50              | 76.10          | 7,763.0                     | 76.5            | -82.5           | -78.9                         | 14.13                         | 13.44                        | -31.25                      |  |
| 7,799.0                       | 13.90              | 72.00          | 7,793.3                     | 78.4            | -76.2           | -72.5                         | 11.31                         | 10.97                        | -13.23                      |  |
| 7,831.0                       | 14.90              | 68.80          | 7,824.3                     | 81.1            | -68.7           | -64.9                         | 3.99                          | 3.13                         | -10.00                      |  |
| 7,863.0                       | 18.70              | 64.60          | 7,854.9                     | 84.7            | -60.3           | -56.3                         | 12.46                         | 11.88                        | -13.13                      |  |
| 7,895.0                       | 22.50              | 65.20          | 7,884.8                     | 89.5            | -50.1           | -45.9                         | 11.89                         | 11.88                        | 1.88                        |  |

DDC  
Survey Report

Wellbore # 1



|           |                         |                              |                                       |
|-----------|-------------------------|------------------------------|---------------------------------------|
| Company:  | Mewbourne Oil Co.       | Local Co-ordinate Reference: | Well Aries 20' Fed Com #4H            |
| Project:  | Eddy County, New Mexico | TVD Reference:               | WELL @ 3493.0usft (Patterson UTI #45) |
| Site:     | Sec 20-18S-30E          | MD Reference:                | WELL @ 3493.0usft (Patterson UTI #45) |
| Well:     | Aries 20' Fed Com #4H   | North Reference:             | Grid                                  |
| Wellbore: | Wellbore #1             | Survey Calculation Method:   | Minimum Curvature                     |
| Design:   | Wellbore #1             | Database:                    | EDM 5000.1 Single User Db             |

| Survey                                   |                 |             |                       |              |              |                         |                         |                        |                       |
|------------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft)                    | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 7,926.0                                  | 26.20           | 68.70       | 7,913.1               | 94.5         | -38.3        | -33.9                   | 12.81                   | 11.94                  | 11.29                 |
| 7,958.0                                  | 29.90           | 71.20       | 7,941.3               | 99.6         | -24.2        | -19.5                   | 12.13                   | 11.56                  | 7.81                  |
| 7,990.0                                  | 34.20           | 73.90       | 7,968.4               | 104.7        | -8.0         | -3.1                    | 14.16                   | 13.44                  | 8.44                  |
| CROSSED HARD LINE @ 8003' MD / 7979' TVD |                 |             |                       |              |              |                         |                         |                        |                       |
| 8,003.0                                  | 35.78           | 74.84       | 7,979.1               | 106.7        | -0.8         | 4.2                     | 12.84                   | 12.15                  | 7.26                  |
| 8,022.0                                  | 38.10           | 76.10       | 7,994.3               | 109.6        | 10.3         | 15.3                    | 12.84                   | 12.21                  | 6.61                  |
| 8,053.0                                  | 42.10           | 78.70       | 8,018.0               | 113.9        | 29.7         | 35.0                    | 13.99                   | 12.90                  | 8.39                  |
| 8,085.0                                  | 45.60           | 82.00       | 8,041.1               | 117.6        | 51.6         | 57.0                    | 13.06                   | 10.94                  | 10.31                 |
| 8,117.0                                  | 49.00           | 84.80       | 8,062.8               | 120.3        | 75.0         | 80.5                    | 12.42                   | 10.63                  | 8.75                  |
| 8,149.0                                  | 53.00           | 85.20       | 8,082.9               | 122.4        | 99.7         | 105.3                   | 12.54                   | 12.50                  | 1.25                  |
| 8,181.0                                  | 56.80           | 85.40       | 8,101.3               | 124.6        | 125.8        | 131.5                   | 11.89                   | 11.88                  | 0.63                  |
| 8,212.0                                  | 60.00           | 86.20       | 8,117.5               | 126.5        | 152.1        | 157.8                   | 10.55                   | 10.32                  | 2.58                  |
| 8,244.0                                  | 65.10           | 84.80       | 8,132.3               | 128.7        | 180.4        | 186.2                   | 16.40                   | 15.94                  | -4.38                 |
| 8,276.0                                  | 68.20           | 84.50       | 8,145.0               | 131.5        | 209.7        | 215.6                   | 9.73                    | 9.69                   | -0.94                 |
| 8,308.0                                  | 69.50           | 85.80       | 8,156.5               | 134.0        | 239.4        | 245.4                   | 5.56                    | 4.06                   | 4.06                  |
| 8,339.0                                  | 71.10           | 87.20       | 8,167.0               | 135.8        | 268.5        | 274.6                   | 6.69                    | 5.16                   | 4.52                  |
| 8,371.0                                  | 71.60           | 86.80       | 8,177.2               | 137.4        | 298.8        | 304.9                   | 1.96                    | 1.56                   | -1.25                 |
| 8,403.0                                  | 75.50           | 88.10       | 8,186.3               | 138.7        | 329.5        | 335.6                   | 12.79                   | 12.19                  | 4.06                  |
| 8,434.0                                  | 78.60           | 89.00       | 8,193.2               | 139.5        | 359.7        | 365.8                   | 10.39                   | 10.00                  | 2.90                  |
| 8,453.0                                  | 81.20           | 89.30       | 8,196.5               | 139.8        | 378.4        | 384.5                   | 13.77                   | 13.68                  | 1.58                  |
| 8,542.0                                  | 87.40           | 87.90       | 8,205.4               | 141.9        | 466.9        | 473.0                   | 7.14                    | 6.97                   | -1.57                 |
| 8,574.0                                  | 88.80           | 90.80       | 8,206.4               | 142.3        | 498.8        | 504.9                   | 10.06                   | 4.38                   | 9.06                  |
| 8,606.0                                  | 89.20           | 91.90       | 8,207.0               | 141.6        | 530.8        | 536.8                   | 3.66                    | 1.25                   | 3.44                  |
| 8,636.0                                  | 89.10           | 91.90       | 8,207.4               | 140.6        | 560.8        | 566.7                   | 0.33                    | -0.33                  | 0.00                  |
| 8,668.0                                  | 89.40           | 91.90       | 8,207.8               | 139.5        | 592.8        | 598.6                   | 0.94                    | 0.94                   | 0.00                  |
| 8,732.0                                  | 89.60           | 91.30       | 8,208.4               | 137.7        | 656.8        | 662.4                   | 0.99                    | 0.31                   | -0.94                 |
| 8,795.0                                  | 89.60           | 90.70       | 8,208.8               | 136.6        | 719.8        | 725.3                   | 0.95                    | 0.00                   | -0.95                 |
| 8,859.0                                  | 89.50           | 90.50       | 8,209.4               | 135.9        | 783.7        | 789.2                   | 0.35                    | -0.16                  | -0.31                 |
| 8,921.0                                  | 89.80           | 89.90       | 8,209.7               | 135.7        | 845.7        | 851.1                   | 1.08                    | 0.48                   | -0.97                 |
| 8,985.0                                  | 90.00           | 90.00       | 8,209.8               | 135.8        | 909.7        | 915.1                   | 0.35                    | 0.31                   | 0.16                  |
| 9,048.0                                  | 90.90           | 89.60       | 8,209.3               | 136.0        | 972.7        | 978.0                   | 1.56                    | 1.43                   | -0.63                 |
| 9,111.0                                  | 89.70           | 89.50       | 8,209.0               | 136.5        | 1,035.7      | 1,041.0                 | 1.91                    | -1.90                  | -0.16                 |
| 9,175.0                                  | 89.20           | 89.60       | 8,209.6               | 137.0        | 1,099.7      | 1,104.9                 | 0.80                    | -0.78                  | 0.16                  |
| 9,239.0                                  | 89.40           | 89.60       | 8,210.4               | 137.4        | 1,163.7      | 1,168.9                 | 0.31                    | 0.31                   | 0.00                  |
| 9,301.0                                  | 89.60           | 88.60       | 8,211.0               | 138.4        | 1,225.7      | 1,230.8                 | 1.64                    | 0.32                   | -1.61                 |
| 9,364.0                                  | 89.80           | 88.20       | 8,211.3               | 140.2        | 1,288.7      | 1,293.8                 | 0.71                    | 0.32                   | -0.63                 |
| 9,427.0                                  | 89.20           | 87.60       | 8,211.8               | 142.5        | 1,351.6      | 1,356.8                 | 1.35                    | -0.95                  | -0.95                 |
| 9,490.0                                  | 89.10           | 87.70       | 8,212.8               | 145.1        | 1,414.6      | 1,419.8                 | 0.22                    | -0.16                  | 0.16                  |
| 9,554.0                                  | 89.40           | 87.70       | 8,213.6               | 147.6        | 1,478.5      | 1,483.8                 | 0.47                    | 0.47                   | 0.00                  |
| 9,617.0                                  | 88.90           | 87.30       | 8,214.5               | 150.4        | 1,541.5      | 1,546.8                 | 1.02                    | -0.79                  | -0.63                 |
| 9,680.0                                  | 88.30           | 87.70       | 8,216.1               | 153.1        | 1,604.4      | 1,609.8                 | 1.14                    | -0.95                  | 0.63                  |
| 9,743.0                                  | 88.60           | 87.20       | 8,217.8               | 155.9        | 1,667.3      | 1,672.7                 | 0.93                    | 0.48                   | -0.79                 |
| 9,806.0                                  | 88.50           | 87.30       | 8,219.4               | 159.0        | 1,730.2      | 1,735.7                 | 0.22                    | -0.16                  | 0.16                  |

DDC  
Survey Report

Wellbore #1



|                  |                        |                                     |                                       |
|------------------|------------------------|-------------------------------------|---------------------------------------|
| <b>Company:</b>  | Mewbourne Oil Co       | <b>Local Co-ordinate Reference:</b> | Well Aries 20 Fed Com #4H             |
| <b>Project:</b>  | Eddy County New Mexico | <b>TVD Reference:</b>               | WELL @ 3493.0usft (Patterson UTI #45) |
| <b>Site:</b>     | Sec 20-18S-30E         | <b>MD Reference:</b>                | WELL @ 3493.0usft (Patterson UTI #45) |
| <b>Well:</b>     | Aries 20 Fed Com #4H   | <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) |
| 9,869.0               | 89.40           | 87.60       | 8,220.5               | 161.8        | 1,793.1      | 1,798.7                 | 1.51                    | 1.43                   | 0.48                  |
| 9,933.0               | 89.40           | 87.80       | 8,221.2               | 164.3        | 1,857.1      | 1,862.7                 | 0.31                    | 0.00                   | 0.31                  |
| 9,997.0               | 90.90           | 86.50       | 8,221.0               | 167.5        | 1,921.0      | 1,926.7                 | 3.10                    | 2.34                   | -2.03                 |
| 10,060.0              | 89.80           | 87.00       | 8,220.6               | 171.1        | 1,983.9      | 1,989.7                 | 1.92                    | -1.75                  | 0.79                  |
| 10,123.0              | 89.10           | 87.00       | 8,221.3               | 174.4        | 2,046.8      | 2,052.7                 | 1.11                    | -1.11                  | 0.00                  |
| 10,187.0              | 89.40           | 86.80       | 8,222.1               | 177.8        | 2,110.7      | 2,116.7                 | 0.56                    | 0.47                   | -0.31                 |
| 10,250.0              | 89.40           | 86.60       | 8,222.8               | 181.5        | 2,173.6      | 2,179.7                 | 0.32                    | 0.00                   | -0.32                 |
| 10,314.0              | 89.40           | 86.80       | 8,223.4               | 185.2        | 2,237.5      | 2,243.7                 | 0.31                    | 0.00                   | 0.31                  |
| 10,377.0              | 89.10           | 86.60       | 8,224.2               | 188.8        | 2,300.4      | 2,306.7                 | 0.57                    | -0.48                  | -0.32                 |
| 10,440.0              | 89.40           | 86.30       | 8,225.1               | 192.7        | 2,363.2      | 2,369.6                 | 0.67                    | 0.48                   | -0.48                 |
| 10,504.0              | 88.80           | 86.10       | 8,226.1               | 196.9        | 2,427.1      | 2,433.6                 | 0.99                    | -0.94                  | -0.31                 |
| 10,567.0              | 88.70           | 86.90       | 8,227.5               | 200.8        | 2,490.0      | 2,496.6                 | 1.28                    | -0.16                  | 1.27                  |
| 10,631.0              | 89.30           | 87.70       | 8,228.6               | 203.8        | 2,553.9      | 2,560.6                 | 1.56                    | 0.94                   | 1.25                  |
| 10,694.0              | 89.40           | 88.20       | 8,229.3               | 206.0        | 2,616.8      | 2,623.6                 | 0.81                    | 0.16                   | 0.79                  |
| 10,757.0              | 88.30           | 88.40       | 8,230.5               | 207.9        | 2,679.8      | 2,686.6                 | 1.77                    | -1.75                  | 0.32                  |
| 10,820.0              | 88.90           | 88.70       | 8,232.1               | 209.5        | 2,742.8      | 2,749.5                 | 1.06                    | 0.95                   | 0.48                  |
| 10,884.0              | 89.70           | 89.40       | 8,232.9               | 210.6        | 2,806.7      | 2,813.5                 | 1.66                    | 1.25                   | 1.09                  |
| 10,947.0              | 89.40           | 89.10       | 8,233.4               | 211.4        | 2,869.7      | 2,876.5                 | 0.67                    | -0.48                  | -0.48                 |
| 11,010.0              | 88.90           | 89.10       | 8,234.3               | 212.4        | 2,932.7      | 2,939.4                 | 0.79                    | -0.79                  | 0.00                  |
| 11,072.0              | 90.50           | 89.20       | 8,234.6               | 213.3        | 2,994.7      | 3,001.4                 | 2.59                    | 2.58                   | 0.16                  |
| 11,135.0              | 89.80           | 89.60       | 8,234.5               | 213.9        | 3,057.7      | 3,064.3                 | 1.28                    | -1.11                  | 0.63                  |
| 11,199.0              | 89.20           | 89.50       | 8,235.0               | 214.5        | 3,121.7      | 3,128.3                 | 0.95                    | -0.94                  | -0.16                 |
| 11,262.0              | 90.00           | 89.50       | 8,235.5               | 215.0        | 3,184.7      | 3,191.2                 | 1.27                    | 1.27                   | 0.00                  |
| 11,325.0              | 89.80           | 89.20       | 8,235.6               | 215.7        | 3,247.7      | 3,254.2                 | 0.57                    | -0.32                  | -0.48                 |
| 11,388.0              | 89.90           | 89.20       | 8,235.7               | 216.6        | 3,310.7      | 3,317.2                 | 0.16                    | 0.16                   | 0.00                  |
| 11,452.0              | 89.50           | 89.50       | 8,236.1               | 217.3        | 3,374.7      | 3,381.1                 | 0.78                    | -0.63                  | 0.47                  |
| 11,515.0              | 90.40           | 90.00       | 8,236.1               | 217.6        | 3,437.7      | 3,444.1                 | 1.63                    | 1.43                   | 0.79                  |
| 11,578.0              | 91.70           | 89.80       | 8,235.0               | 217.7        | 3,500.7      | 3,507.0                 | 2.09                    | 2.06                   | -0.32                 |
| 11,641.0              | 90.70           | 89.80       | 8,233.6               | 217.9        | 3,563.7      | 3,569.9                 | 1.59                    | -1.59                  | 0.00                  |
| 11,704.0              | 90.00           | 89.80       | 8,233.3               | 218.1        | 3,626.6      | 3,632.9                 | 1.11                    | -1.11                  | 0.00                  |
| 11,768.0              | 89.20           | 89.80       | 8,233.7               | 218.4        | 3,690.6      | 3,696.8                 | 1.25                    | -1.25                  | 0.00                  |
| 11,831.0              | 88.00           | 90.50       | 8,235.2               | 218.2        | 3,753.6      | 3,759.7                 | 2.20                    | -1.90                  | 1.11                  |
| 11,894.0              | 89.00           | 90.60       | 8,236.9               | 217.6        | 3,816.6      | 3,822.6                 | 1.60                    | 1.59                   | 0.16                  |
| 11,956.0              | 89.70           | 89.90       | 8,237.6               | 217.3        | 3,878.6      | 3,884.5                 | 1.60                    | 1.13                   | -1.13                 |
| 12,020.0              | 90.00           | 89.60       | 8,237.8               | 217.6        | 3,942.6      | 3,948.4                 | 0.66                    | 0.47                   | -0.47                 |
| 12,083.0              | 89.80           | 89.30       | 8,237.9               | 218.2        | 4,005.6      | 4,011.4                 | 0.57                    | -0.32                  | -0.48                 |
| 12,147.0              | 89.80           | 88.80       | 8,238.1               | 219.3        | 4,069.6      | 4,075.4                 | 0.78                    | 0.00                   | -0.78                 |
| 12,210.0              | 89.80           | 88.00       | 8,238.3               | 221.0        | 4,132.6      | 4,138.4                 | 1.27                    | 0.00                   | -1.27                 |
| 12,273.0              | 89.50           | 87.50       | 8,238.7               | 223.5        | 4,195.5      | 4,201.4                 | 0.93                    | -0.48                  | -0.79                 |
| 12,336.0              | 88.60           | 86.50       | 8,239.8               | 226.8        | 4,258.4      | 4,264.3                 | 2.14                    | -1.43                  | -1.59                 |
| 12,399.0              | 88.30           | 86.20       | 8,241.5               | 230.8        | 4,321.3      | 4,327.3                 | 0.67                    | -0.48                  | -0.48                 |
| 12,463.0              | 88.30           | 85.70       | 8,243.4               | 235.3        | 4,385.1      | 4,391.3                 | 0.78                    | 0.00                   | -0.78                 |
| 12,526.0              | 88.00           | 85.10       | 8,245.4               | 240.4        | 4,447.8      | 4,454.2                 | 1.06                    | -0.48                  | -0.95                 |
| 12,590.0              | 88.10           | 84.80       | 8,247.6               | 246.0        | 4,511.5      | 4,518.1                 | 0.49                    | 0.16                   | -0.47                 |



DDC  
Survey Report

label bore #1 **RDC**

|                  |                         |                                     |                                       |
|------------------|-------------------------|-------------------------------------|---------------------------------------|
| <b>Company:</b>  | Mewbourne Oil Co        | <b>Local Co-ordinate Reference:</b> | Well Aries 20' Fed Com #4H            |
| <b>Project:</b>  | Eddy County, New Mexico | <b>TVD Reference:</b>               | WELL @ 3493.0usft (Patterson UTI #45) |
| <b>Site:</b>     | Sec 20-18S-30E          | <b>MD Reference:</b>                | WELL @ 3493.0usft (Patterson UTI #45) |
| <b>Well:</b>     | Aries 20 Fed Com #4H    | <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) |
| 12,633.0                   | 88.10           | 84.40       | 8,249.0               | 250.1        | 4,554.3      | 4,561.0                 | 0.93                    | 0.00                   | -0.93                 |
| TD @ 12685' MD / 8251' TVD |                 |             |                       |              |              |                         |                         |                        |                       |
| 12,685.0                   | 88.10           | 84.40       | 8,250.7               | 255.1        | 4,606.1      | 4,612.9                 | 0.00                    | 0.00                   | 0.00                  |

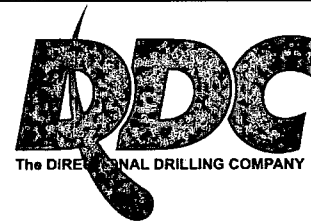
| Survey Annotations    |                       |                   |              |                                          |
|-----------------------|-----------------------|-------------------|--------------|------------------------------------------|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates |              | Comment                                  |
|                       |                       | +N/-S (usft)      | +E/-W (usft) |                                          |
| 7,500.0               | 7,495.5               | 78.5              | -85.6        | TIE IN @ 7500' MD / 7500' TVD            |
| 8,003.0               | 7,979.1               | 106.7             | -0.8         | CROSSED HARD LINE @ 8003' MD / 7979' TVD |
| 12,685.0              | 8,250.7               | 255.1             | 4,606.1      | TD @ 12685' MD / 8251' TVD               |

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

Company Name: Mewbourne Oil Co  
 Aries 20 Fed Com #4H  
 Eddy County, New Mexico  
 Rig: Patterson UTI #45  
 Created By: DINA CHANCE  
 Date: 9/28/2012

Aries 20 Fed Com #4H  
 Eddy County, New Mexico  
 Q110838 & WT-12649  
 Design #3

Well bore #1



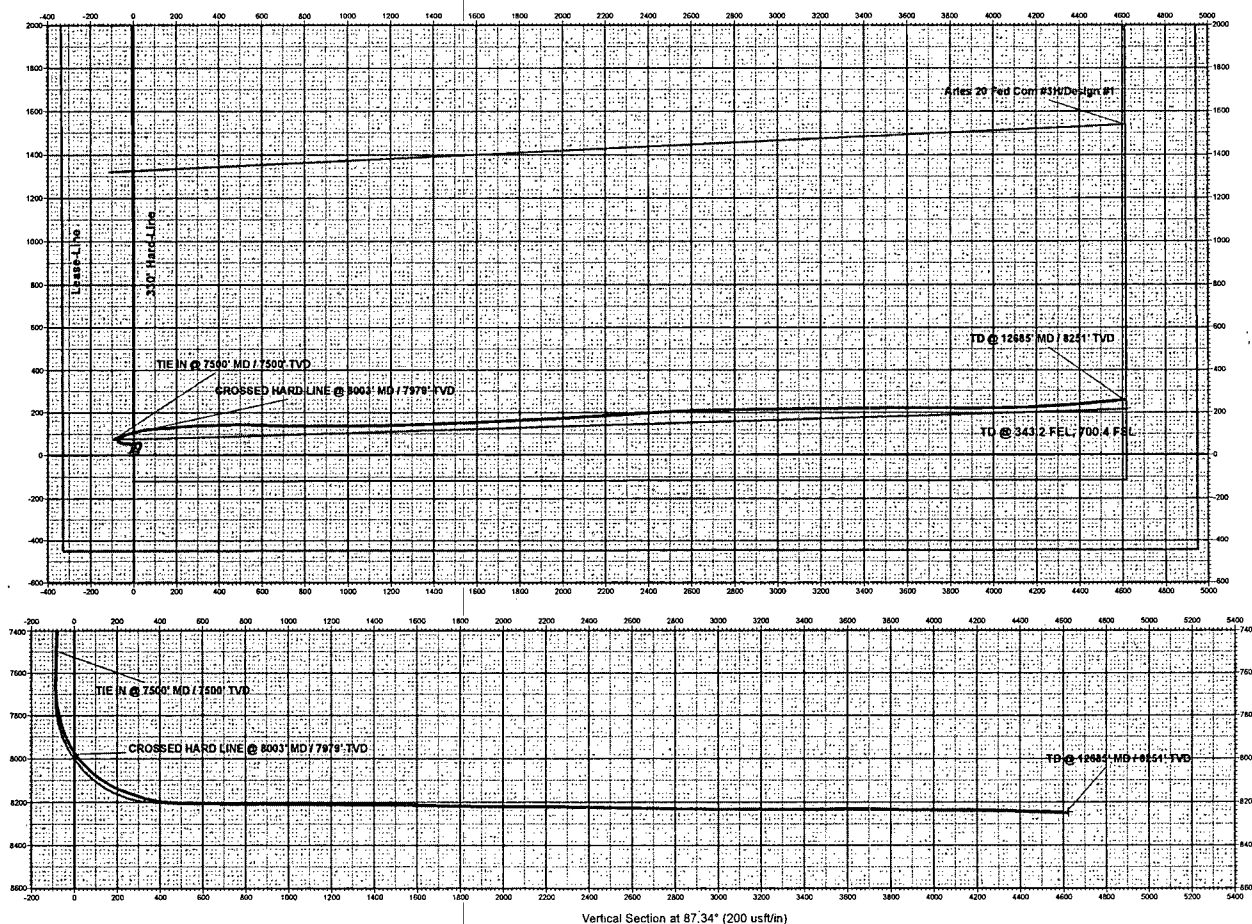
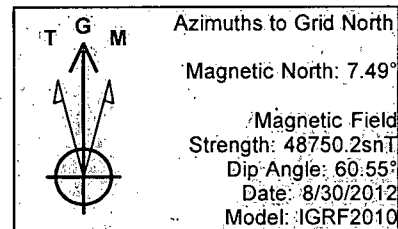
# Mewbourne Oil Company

**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: Aries 20 Fed Com #4H |       |           |           |                  |                 |
|------------------------------------|-------|-----------|-----------|------------------|-----------------|
| Ground Level:                      |       | 3475.0    |           |                  |                 |
| +N/-S                              | +E/-W | Northing  | Eastings  | Latitude         | Longitude       |
| 0.0                                | 0.0   | 628306.42 | 602152.97 | 32° 43' 38.713 N | 104° 0' 4.160 W |

| DESIGN TARGET DETAILS            |       |        |           |           |                  |                   |
|----------------------------------|-------|--------|-----------|-----------|------------------|-------------------|
| Name                             | TVD   | +N/-S  | +E/-W     | Northing  | Eastings         | Latitude          |
| PBHL Aries 20 Fed Com #4H 8248.0 | 214.9 | 4619.1 | 628521.32 | 606772.07 | 32° 43' 38.713 N | 103° 59' 10.080 W |
| plan hits target center          |       |        |           |           |                  |                   |

| ANNOTATIONS                              |       |        |        |       |        |                |
|------------------------------------------|-------|--------|--------|-------|--------|----------------|
| MD                                       | Inc   | Azi    | TVD    | +N/-S | +E/-W  | VSec/Departure |
| 7600.0                                   | 1.79  | 248.12 | 7495.6 | 76.5  | -65.6  | -61.3          |
| 8003.0                                   | 35.78 | 74.34  | 7979.1 | 108.7 | -0.8   | 4.2            |
| 12685.0                                  | 88.10 | 84.40  | 8250.7 | 255.1 | 4606.1 | 4612.9         |
| TIE IN @ 7500' MD / 7500' TVD            |       |        |        |       |        |                |
| CROSSED HARD LINE @ 8003' MD / 7979' TVD |       |        |        |       |        |                |
| TD @ 12685' MD / 8251' TVD               |       |        |        |       |        |                |
| TD @ 343.2 FEL / 700.4 FSL               |       |        |        |       |        |                |



Well bore #1

Operating Company MEWBORNE OIL COMPANY  
 Well Name & Number ARIES 20 FED COM #4H  
 Sales Ticket Number 0  
 Date 9/28/2012

Company Rep RUSSEL BERRYMAN  
 Field SANTO NINO  
 BOT Service Rep CHARLES RAY MOSLEY  
 District Location Odessa, Texas, USA



|                          | Size         | Weight   | Grade       | ID                            | Drift | Thread   | Capacity | Length    | Burst  | Collapse           |                   |                |             |
|--------------------------|--------------|----------|-------------|-------------------------------|-------|----------|----------|-----------|--------|--------------------|-------------------|----------------|-------------|
| Casing                   | 7.000        | 26.00    | P110        | 6.276                         | 0.03  | LT&C     | 0.03826  | 8,507.00  | 9,960  | 7,220              |                   |                |             |
| Top Liner                | 4.500        | 13.50    | 110000      | 3.920                         | 3.795 | LT&C     | 0.01492  | 4,352.43  | 12,410 | 10,680             |                   |                |             |
| Bott Liner               | 0.000        | 0.00     | 0           | 0.000                         | 0.000 | 0        | 0.00000  | -         | -      | -                  |                   |                |             |
| TVD                      |              | 8,250.00 |             | KOP                           |       | 7,645.00 |          | Open Hole |        | 6.125              | Casing Vol. (bbl) | 317.1          |             |
| Carry Fluid Weight (ppg) |              | 8.8      |             | Proppant Content (ppa)        |       |          |          |           |        | Max Drill Out Size |                   | 0              |             |
|                          | Comm. Number |          | Description |                               |       | Depth    | Length   | OD        | ID     | Ball Seat ID       | Shear Press       | Max Rate (BPM) | Disp. (BBL) |
| Liner Top                | 1            | 10292414 |             | JR Setting Sleeve/2RH Profile |       |          | 8287.57  | 4.75      | 5.750  | 4.750              |                   |                |             |

| Zone Length |            |                                   |         |        |       |       |       |      |     |     |  |  |  |
|-------------|------------|-----------------------------------|---------|--------|-------|-------|-------|------|-----|-----|--|--|--|
| 30          | H409400008 | S3 Hyd Set Packer                 | 8292.32 | 4.67   | 5.813 | 3.875 |       | 1670 |     |     |  |  |  |
| 328.5       |            | 4-1/2-13.5 LTC Nipple             | 8296.99 | 8.11   | 5.000 | 3.920 |       |      |     |     |  |  |  |
|             |            | 7 Joints of 4-1/2-13.5 LTC Casing | 8305.10 | 269.50 | 5.000 | 3.920 |       |      |     |     |  |  |  |
|             | H80970074  | 3.625 EX Frac Sleeve              | 8574.60 | 3.90   | 5.750 |       | 3.525 | 2375 | 309 | 321 |  |  |  |
|             |            | 1 Joint of 4-1/2-13.5 LTC Casing  | 8578.50 | 38.38  | 5.000 | 3.920 |       |      |     |     |  |  |  |
| 29          | H409360008 | Baker Open Hole Packer            | 8616.88 | 3.89   | 5.820 | 3.875 |       | 2154 |     |     |  |  |  |
| 202.7       |            | 2 Joints of 4-1/2-13.5 LTC Casing | 8620.77 | 76.82  | 5.000 | 3.920 |       |      |     |     |  |  |  |
|             | H809490001 | 3.500 EX-C Frac Sleeve            | 8697.59 | 3.90   | 5.750 |       | 3.448 | 2375 | 295 | 323 |  |  |  |
|             |            | 3 Joint of 4-1/2-13.5 LTC Casing  | 8701.49 | 114.16 | 5.000 | 3.920 |       |      |     |     |  |  |  |
|             | H409360008 | Baker Open Hole Packer            | 8815.65 | 3.89   | 5.820 | 3.875 |       | 2154 |     |     |  |  |  |
| 28          |            | 2 Joints of 4-1/2-13.5 LTC Casing | 8819.54 | 77.08  | 5.000 | 3.920 |       |      |     |     |  |  |  |
| 165.5       | H809490002 | 3.438 EX-C Frac Sleeve            | 8896.62 | 3.90   | 5.750 |       | 3.385 | 2375 | 285 | 326 |  |  |  |
|             |            | 2 Joint of 4-1/2-13.5 LTC Casing  | 8900.52 | 76.72  | 5.000 | 3.920 |       |      |     |     |  |  |  |
|             | H409360008 | Baker Open Hole Packer            | 8977.24 | 3.89   | 5.820 | 3.875 |       | 2154 |     |     |  |  |  |
| 27          |            | 1 Joints of 4-1/2-13.5 LTC Casing | 8981.13 | 38.45  | 5.000 | 3.920 |       |      |     |     |  |  |  |
| 126.4       | H809490003 | 3.375 EX-C Frac Sleeve            | 9019.58 | 3.90   | 5.750 |       | 3.323 | 2375 | 274 | 328 |  |  |  |
|             |            | 2 Joint of 4-1/2-13.5 LTC Casing  | 9023.48 | 76.28  | 5.000 | 3.920 |       |      |     |     |  |  |  |
|             | H409360008 | Baker Open Hole Packer            | 9099.76 | 3.89   | 5.820 | 3.875 |       | 2154 |     |     |  |  |  |
| 26          |            | 1 Joints of 4-1/2-13.5 LTC Casing | 9103.65 | 38.00  | 5.000 | 3.920 |       |      |     |     |  |  |  |
| 88.08       | H809490004 | 3.313 EX-C Frac Sleeve            | 9141.65 | 3.90   | 5.750 |       | 3.260 | 2375 | 264 | 330 |  |  |  |
|             |            | 1 Joints of 4-1/2-13.5 LTC Casing | 9145.55 | 38.40  | 5.000 | 3.920 |       |      |     |     |  |  |  |
|             | H409360008 | Baker Open Hole Packer            | 9183.95 | 3.89   | 5.820 | 3.875 |       | 2154 |     |     |  |  |  |
| 25          |            | 2 Joints of 4-1/2-13.5 LTC Casing | 9187.84 | 76.08  | 5.000 | 3.920 |       |      |     |     |  |  |  |
| 125.9       | H809490005 | 3.250 EX-C Frac Sleeve            | 9263.92 | 3.90   | 5.750 |       | 3.198 | 2375 | 254 | 332 |  |  |  |
|             |            | 1 Joint of 4-1/2-13.5 LTC Casing  | 9267.82 | 38.10  | 5.000 | 3.920 |       |      |     |     |  |  |  |
|             | H409360008 | Baker Open Hole Packer            | 9305.92 | 3.89   | 5.820 | 3.875 |       | 2154 |     |     |  |  |  |
| 24          |            | 2 Joints of 4-1/2-13.5 LTC Casing | 9309.81 | 76.65  | 5.000 | 3.920 |       |      |     |     |  |  |  |
| 163.6       | H809490006 | 3.188 EX-C Frac Sleeve            | 9386.46 | 3.90   | 5.750 |       | 3.135 | 2375 | 244 | 333 |  |  |  |
|             |            | 2 Joints of 4-1/2-13.5 LTC Casing | 9390.36 | 75.27  | 5.000 | 3.920 |       |      |     |     |  |  |  |
|             | H409360008 | Baker Open Hole Packer            | 9465.63 | 3.89   | 5.820 | 3.875 |       | 2154 |     |     |  |  |  |
| 23          |            | 2 Joints of 4-1/2-13.5 LTC Casing | 9469.52 | 75.54  | 5.000 | 3.920 |       |      |     |     |  |  |  |
| 164         | H809490007 | 3.125 EX-C Frac Sleeve            | 9545.06 | 3.90   | 5.750 |       | 3.073 | 2375 | 235 | 336 |  |  |  |
|             |            | 2 Joint of 4-1/2-13.5 LTC Casing  | 9548.96 | 76.80  | 5.000 | 3.920 |       |      |     |     |  |  |  |
|             | H409360008 | Baker Open Hole Packer            | 9625.76 | 3.89   | 5.820 | 3.875 |       | 2154 |     |     |  |  |  |

Wellbore #1

Operating Company NEWBOURNE OIL COMPANY  
Well Name & Number ARIES 20 FED COM #4H  
Sales Ticket Number 0  
Date 9/28/2012

Company Rep RUSSEL BERRYMAN  
Field SANTO NINO  
BOT Service Rep CHARLES RAY MOSLEY  
District Location Odessa, Texas, USA



|                          | Size  | Weight   | Grade  | ID    | Drift                | Thread   | Capacity | Length    | Burst              | Collapse |                   |       |
|--------------------------|-------|----------|--------|-------|----------------------|----------|----------|-----------|--------------------|----------|-------------------|-------|
| Casing                   | 7.000 | 26.00    | P-110  | 6.276 | 0                    | LT&C     | 0.03826  | 8,507.00  | 9,960              | 7,220    |                   |       |
| Top Liner                | 4.500 | 13.50    | 110000 | 3.920 | 3.795                | LT&C     | 0.01492  | 4,352.43  | 12,410             | 10,680   |                   |       |
| Bott Liner               | 0.000 | 0.00     | 0      | 0.000 | 0.000                | 0        | 0.00000  | -         | -                  | -        |                   |       |
| TVD                      |       | 8,250.00 |        | KOP   |                      | 7,645.00 |          | Open Hole |                    | 6.125    | Casing Vol. (bbl) | 317.1 |
| Carry Fluid Weight (ppg) |       |          | 8.8    |       | Propan Content (ppa) |          |          |           | Max Drill Out Size |          |                   | 0     |

|       | Comm. Number | Description                       | Depth    | Length | OD    | ID    | Ball Seat ID | Shear Press | Max Rate (BPM) | Displ (BBL) |
|-------|--------------|-----------------------------------|----------|--------|-------|-------|--------------|-------------|----------------|-------------|
| 22    |              | 2 Joints of 4-1/2-13.5 LTC Casing | 9629.65  | 76.49  | 5.000 | 3.920 |              |             |                |             |
| 125.5 | H809490008   | 3.063 EX-C Frac Sleeve            | 9706.14  | 3.90   | 5.750 |       | 3.010        | 2375        | 225            | 338         |
|       |              | 1 Joints of 4-1/2-13.5 LTC Casing | 9710.04  | 37.28  | 5.000 | 3.920 |              |             |                |             |
|       | H409360008   | Baker Open Hole Packer            | 9747.32  | 3.89   | 5.820 | 3.875 |              | 2154        |                |             |
| 21    |              | 2 Joints of 4-1/2-13.5 LTC Casing | 9751.21  | 74.69  | 5.000 | 3.920 |              |             |                |             |
| 124.4 | H809490009   | 3.000 EX-C Frac sleeve            | 9825.90  | 3.90   | 5.750 |       | 2.948        | 2375        | 216            | 340         |
|       |              | 1 Joint of 4-1/2-13.5 LTC Casing  | 9829.80  | 38.03  | 5.000 | 3.920 |              |             |                |             |
|       | H409360008   | Baker Open Hole Packer            | 9867.83  | 3.89   | 5.820 | 3.875 |              | 2154        |                |             |
| 20    |              | 2 Joints of 4-1/2-13.5 LTC Casing | 9871.72  | 76.42  | 5.000 | 3.920 |              |             |                |             |
| 164.2 | H809490010   | 2.938 EX-C Frac Sleeve            | 9948.14  | 3.90   | 5.750 |       | 2.885        | 2375        | 207            | 342         |
|       |              | 2 Joints of 4-1/2-13.5 LTC Casing | 9952.04  | 76.05  | 5.000 | 3.920 |              |             |                |             |
|       | H409360008   | Baker Open Hole Packer            | 10028.09 | 3.89   | 5.820 | 3.875 |              | 2154        |                |             |
| 19    |              | 2 Joint of 4-1/2-13.5 LTC Casing  | 10031.98 | 75.33  | 5.000 | 3.920 |              |             |                |             |
| 163.4 | H809490011   | 2.875 EX-C Frac Sleeve            | 10107.31 | 3.90   | 5.750 |       | 2.823        | 2375        | 198            | 344         |
|       |              | 2 Joints of 4-1/2-13.5 LTC Casing | 10111.21 | 76.37  | 5.000 | 3.920 |              |             |                |             |
|       | H409360008   | Baker Open Hole Packer            | 10187.58 | 3.89   | 5.820 | 3.875 |              | 2154        |                |             |
| 18    |              | 2 Joint of 4-1/2-13.5 LTC Casing  | 10191.47 | 75.80  | 5.000 | 3.920 |              |             |                |             |
| 125.6 | H809490012   | 2.813 EX_C Frac Sleeve            | 10267.27 | 3.90   | 5.750 |       | 2.760        | 2375        | 189            | 347         |
|       |              | 1 Joints of 4-1/2-13.5 LTC Casing | 10271.17 | 38.07  | 5.000 | 3.920 |              |             |                |             |
|       | H409360008   | Baker Open Hole Packer            | 10309.24 | 3.89   | 5.820 | 3.875 |              | 2154        |                |             |
| 17    |              | 2 Joint of 4-1/2-13.5 LTC Casing  | 10313.13 | 76.52  | 5.000 | 3.920 |              |             |                |             |
| 165.4 | H809490013   | 2.750 EX_C Frac Sleeve            | 10389.65 | 3.90   | 5.750 |       | 2.698        | 2375        | 181            | 348         |
|       |              | 2 Joints of 4-1/2-13.5 LTC Casing | 10393.55 | 77.20  | 5.000 | 3.920 |              |             |                |             |
|       | H409360008   | Baker Open Hole Packer            | 10470.75 | 3.89   | 5.820 | 3.875 |              | 2154        |                |             |
| 16    |              | 1 Joint of 4-1/2-13.5 LTC Casing  | 10474.64 | 38.18  | 5.000 | 3.920 |              |             |                |             |
| 126.2 | H809490014   | 2.688 EX_C Frac Sleeve            | 10512.82 | 3.90   | 5.750 |       | 2.635        | 2375        | 173            | 350         |
|       |              | 2 Joints of 4-1/2-13.5 LTC Casing | 10516.72 | 76.37  | 5.000 | 3.920 |              |             |                |             |
|       | H409360008   | Baker Open Hole Packer            | 10593.09 | 3.89   | 5.820 | 3.875 |              | 2154        |                |             |
| 15    |              | 2 Joints of 4-1/2-13.5 LTC Casing | 10596.98 | 74.59  | 5.000 | 3.920 |              |             |                |             |
| 163.7 | H809490015   | 2.625 EX_C Frac Sleeve            | 10671.57 | 3.90   | 5.750 |       | 2.573        | 2375        | 165            | 353         |
|       |              | 2 Joint of 4-1/2-13.5 LTC Casing  | 10675.47 | 77.45  | 5.000 | 3.920 |              |             |                |             |
|       | H409360008   | Baker Open Hole Packer            | 10752.92 | 3.89   | 5.820 | 3.875 |              | 2154        |                |             |
| 14    |              | 2 Joints of 4-1/2-13.5 LTC Casing | 10756.81 | 73.86  | 5.000 | 3.920 |              |             |                |             |
| 122.8 | H809490016   | 2.563 EX_C Frac Sleeve            | 10830.67 | 3.90   | 5.750 |       | 2.510        | 2375        | 157            | 355         |
|       |              | 1 Joints of 4-1/2-13.5 LTC Casing | 10834.57 | 37.30  | 5.000 | 3.920 |              |             |                |             |
|       | H409360008   | Baker Open Hole Packer            | 10871.87 | 3.89   | 5.820 | 3.875 |              | 2154        |                |             |
| 13    |              | 2 Joints of 4-1/2-13.5 LTC Casing | 10875.76 | 76.61  | 5.000 | 3.920 |              |             |                |             |
| 165.1 | H809490017   | 2.500 EX_C Frac Sleeve            | 10952.37 | 3.90   | 5.750 |       | 2.448        | 2375        | 149            | 357         |

Well bore  
#1

Operating Company NEWMOURNE OIL COMPANY  
Well Name & Number ARIES 20 FED COM #4H  
Sales Ticket Number 0

Company Rep RUSSEL BERRYMAN  
Field SANTO NINO  
BOT Service Rep CHARLES RAY MOSLEY  
Date 9/28/2012  
District Location Odessa, Texas, USA



|                                                                                                                                                                                                                                                                              | Size                              | Weight                            | Grade    | ID                   | Drift | Thread   | Capacity     | Length             | Burst             | Collapse    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-----------------------------------|----------|----------------------|-------|----------|--------------|--------------------|-------------------|-------------|
| Casing                                                                                                                                                                                                                                                                       | 57.000                            | 26.00                             | P-110    | 6.276                | 0.000 | LT&C     | 0.03826      | 8,507.00           | 19,960            | 7,220       |
| Top Liner                                                                                                                                                                                                                                                                    | 4.500                             | 13.50                             | 110000   | 3.920                | 3.795 | LT&C     | 0.01492      | 4,352.43           | 12,410            | 10,680      |
| Bott Liner                                                                                                                                                                                                                                                                   | 0.000                             | 0.00                              | 0        | 0.000                | 0.000 | 0        | 0.00000      | -                  | -                 | -           |
| TVD                                                                                                                                                                                                                                                                          | 8,250.00                          |                                   |          | KOP                  |       | 7,645.00 | Open Hole    | 6.125              | Casing Vol. (bbl) | 317.1       |
| Carry Fluid Weight (ppg)                                                                                                                                                                                                                                                     | 8.8                               |                                   |          | Propan Content (ppa) |       |          |              | Max Drill Out Size |                   | 0           |
| <div>12</div> <div>124.2</div> <div>11</div> <div>163.2</div> <div>10</div> <div>164.5</div> <div>9</div> <div>161.1</div> <div>8</div> <div>169.3</div> <div>7</div> <div>142</div> <div>6</div> <div>125.4</div> <div>5</div> <div>126.9</div> <div>4</div> <div>132</div> | Comm. Number                      | Description                       | Depth    | Length               | OD    | ID       | Ball Seat ID | Shear Press        | Max Rate (BPM)    | Displ (BBL) |
|                                                                                                                                                                                                                                                                              |                                   | 2 Joint of 4-1/2-13.5 LTC Casing  | 10956.27 | 76.81                | 5.000 | 3.920    |              |                    |                   |             |
|                                                                                                                                                                                                                                                                              | H409360008                        | Baker Open Hole Packer            | 11033.08 | 3.89                 | 5.820 | 3.875    |              | 2154               |                   |             |
|                                                                                                                                                                                                                                                                              |                                   | 1 Joints of 4-1/2-13.5 LTC Casing | 11036.97 | 38.05                | 5.000 | 3.920    |              |                    |                   |             |
|                                                                                                                                                                                                                                                                              | H809490018                        | 2.438 EX_C Frac Sleeve            | 11075.02 | 3.90                 | 5.750 |          | 2.386        | 2375               | 141               | 359         |
|                                                                                                                                                                                                                                                                              |                                   | 2 Joints of 4-1/2-13.5 LTC Casing | 11078.92 | 74.49                | 5.000 | 3.920    |              |                    |                   |             |
|                                                                                                                                                                                                                                                                              | H409360008                        | Baker Open Hole Packer            | 11153.41 | 3.89                 | 5.820 | 3.875    |              | 2154               |                   |             |
|                                                                                                                                                                                                                                                                              |                                   | 2 Joints of 4-1/2-13.5 LTC Casing | 11157.30 | 75.92                | 5.000 | 3.920    |              |                    |                   |             |
|                                                                                                                                                                                                                                                                              | H809490019                        | 2.375 EX_C Frac Sleeve            | 11233.22 | 3.90                 | 5.750 |          | 2.323        | 2375               | 134               | 361         |
|                                                                                                                                                                                                                                                                              |                                   | 2 Joint of 4-1/2-13.5 LTC Casing  | 11237.12 | 75.63                | 5.000 | 3.920    |              |                    |                   |             |
|                                                                                                                                                                                                                                                                              | H409360008                        | Baker Open Hole Packer            | 11312.75 | 3.89                 | 5.820 | 3.875    |              | 2154               |                   |             |
|                                                                                                                                                                                                                                                                              |                                   | 2 Joints of 4-1/2-13.5 LTC Casing | 11316.64 | 77.30                | 5.000 | 3.920    |              |                    |                   |             |
|                                                                                                                                                                                                                                                                              | H809490020                        | 2.313 EX_C Frac Sleeve            | 11393.94 | 3.90                 | 5.750 |          | 2.261        | 2375               | 127               | 363         |
|                                                                                                                                                                                                                                                                              |                                   | 2 Joints of 4-1/2-13.5 LTC Casing | 11397.84 | 75.56                | 5.000 | 3.920    |              |                    |                   |             |
|                                                                                                                                                                                                                                                                              | H409360008                        | Baker Open Hole Packer            | 11473.40 | 3.89                 | 5.820 | 3.875    |              | 2154               |                   |             |
|                                                                                                                                                                                                                                                                              |                                   | 1 Joints of 4-1/2-13.5 LTC Casing | 11477.29 | 36.76                | 5.000 | 3.920    |              |                    |                   |             |
|                                                                                                                                                                                                                                                                              | H8098700                          | 2.250 EX Frac Sleeve              | 11514.05 | 3.90                 | 5.750 |          | 2.150        | 2286               | 113               | 365         |
|                                                                                                                                                                                                                                                                              |                                   | 3 Joint of 4-1/2-13.5 LTC Casing  | 11517.95 | 112.68               | 5.000 | 3.920    |              |                    |                   |             |
|                                                                                                                                                                                                                                                                              | H409360008                        | Baker Open Hole Packer            | 11630.63 | 3.89                 | 5.820 | 3.875    |              | 2154               |                   |             |
|                                                                                                                                                                                                                                                                              |                                   | 2 Joints of 4-1/2-13.5 LTC Casing | 11634.52 | 81.18                | 5.000 | 3.920    |              |                    |                   |             |
| H809870042                                                                                                                                                                                                                                                                   | 2.125 EX Frac Sleeve              | 11715.70                          | 3.90     | 5.750                |       | 2.025    | 2286         | 100                | 368               |             |
|                                                                                                                                                                                                                                                                              | 2 Joint of 4-1/2-13.5 LTC Casing  | 11719.60                          | 76.40    | 5.000                | 3.920 |          |              |                    |                   |             |
| H409360008                                                                                                                                                                                                                                                                   | Baker Open Hole Packer            | 11796.00                          | 3.89     | 5.820                | 3.875 |          | 2154         |                    |                   |             |
|                                                                                                                                                                                                                                                                              | 1 Joints of 4-1/2-13.5 LTC Casing | 11799.89                          | 43.55    | 5.000                | 3.920 |          |              |                    |                   |             |
| H809870088                                                                                                                                                                                                                                                                   | 2.000 EX Frac Sleeve              | 11843.44                          | 3.90     | 5.750                |       | 1.900    | 2286         | 88                 | 370               |             |
|                                                                                                                                                                                                                                                                              | 2 Joints of 4-1/2-13.5 LTC Casing | 11847.34                          | 86.79    | 5.000                | 3.920 |          |              |                    |                   |             |
| H409360008                                                                                                                                                                                                                                                                   | Baker Open Hole Packer            | 11934.13                          | 3.89     | 5.820                | 3.875 |          | 2154         |                    |                   |             |
|                                                                                                                                                                                                                                                                              | 1 Joints of 4-1/2-13.5 LTC Casing | 11938.02                          | 37.81    | 5.000                | 3.920 |          |              |                    |                   |             |
| H809870087                                                                                                                                                                                                                                                                   | 1.875 EX Frac Sleeve              | 11975.83                          | 3.90     | 5.750                |       | 1.775    | 2286         | 77                 | 372               |             |
|                                                                                                                                                                                                                                                                              | 2 Joint of 4-1/2-13.5 LTC Casing  | 11979.73                          | 75.86    | 5.000                | 3.920 |          |              |                    |                   |             |
| H409360008                                                                                                                                                                                                                                                                   | Baker Open Hole Packer            | 12055.59                          | 3.89     | 5.820                | 3.875 |          | 2154         |                    |                   |             |
|                                                                                                                                                                                                                                                                              | 1 Joints of 4-1/2-13.5 LTC Casing | 12059.48                          | 38.41    | 5.000                | 3.920 |          |              |                    |                   |             |
| H809870086                                                                                                                                                                                                                                                                   | 1.750 EX Frac Sleeve              | 12097.89                          | 3.90     | 5.750                |       | 1.650    | 2286         | 66                 | 374               |             |
|                                                                                                                                                                                                                                                                              | 2 Joint of 4-1/2-13.5 LTC Casing  | 12101.79                          | 76.84    | 5.000                | 3.920 |          |              |                    |                   |             |
| H409360008                                                                                                                                                                                                                                                                   | Baker Open Hole Packer            | 12178.63                          | 3.89     | 5.820                | 3.875 |          | 2154         |                    |                   |             |
|                                                                                                                                                                                                                                                                              | 1 Joints of 4-1/2-13.5 LTC Casing | 12182.52                          | 43.57    | 5.000                | 3.920 |          |              |                    |                   |             |
| H809870085                                                                                                                                                                                                                                                                   | 1.625 EX Frac Sleeve              | 12226.09                          | 3.90     | 5.750                |       | 1.525    | 2286         | 57                 | 376               |             |
|                                                                                                                                                                                                                                                                              | 2 Joints of 4-1/2-13.5 LTC Casing | 12229.99                          | 76.76    | 5.000                | 3.920 |          |              |                    |                   |             |
| H409360008                                                                                                                                                                                                                                                                   | Baker Open Hole Packer            | 12306.75                          | 3.89     | 5.820                | 3.875 |          | 2154         |                    |                   |             |



**BAKER  
HUGHES**

|                          |          |     |                      |           |       |                    |       |
|--------------------------|----------|-----|----------------------|-----------|-------|--------------------|-------|
| TVD                      | 8,250.00 | KOP | 7,645.00             | Open Hole | 6.125 | Casing Vol. (bbl)  | 317.1 |
| Carry Fluid Weight (ppg) | 8.8      |     | Propan Content (ppa) |           |       | Max Drill Out Size | 0     |

[illegible]