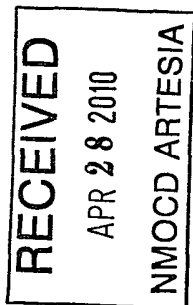


30 015 37482



**A Gyrodata Directional Survey**

for

**MEWBOURNE OIL CO.**

W

Location: PATTERSON #45, EDDY COUNTY, NEW MEXICO  
Lease: FOUR MILE DRAW 21 Well: #1H, 4-1/2" DRILLPIPE

Job Number: MD0310GVCW153

Run Date: 3/8/2010 12:17:43 AM

Surveyor: AJ EATON

Calculation Method: MINIMUM CURVATURE

Survey surface coordinates obtained from: Directional Drilling Company  
Survey Latitude: 32.727989 deg. N Longitude: 104.701800 deg. W

Azimuth Correction:

Gyro: 0.20000 deg to Grid North

Proposed Well Direction: 1.370 deg

Vertical Section Calculated from Well Head Location

Closure Calculated from Well Head Location

Horizontal Coordinates Calculated from Well Head Location

# A Gyrodata Directional Survey

MEWBOURNE OIL CO.

Location: PATTERSON #45, EDDY COUNTY, NEW MEXICO

Lease: FOUR MILE DRAW 21 Well: #1H, 4-1/2" DRILLPIPE

Job Number: MD0310GVCW153

| MEASURED<br>DEPTH<br>feet                                                        | I N C L<br>deg. | AZIMUTH<br>deg. | VERTICAL<br>SECTION<br>feet | DOGLEG<br>SEVERITY<br>deg./<br>100 ft. | VERTICAL<br>DEPTH<br>feet | CLOSURE<br>DIST. AZIMUTH<br>feet deg. | HORIZONTAL<br>COORDINATES<br>feet |
|----------------------------------------------------------------------------------|-----------------|-----------------|-----------------------------|----------------------------------------|---------------------------|---------------------------------------|-----------------------------------|
| 0.00                                                                             | 0.00            | 0.00            | 0.0                         | 0.00                                   | 0.00                      | 0.0 0.0                               | 0.00 N 0.00 E                     |
| -----                                                                            |                 |                 |                             |                                        |                           |                                       |                                   |
| 0 TO 3798 FT. RATE GYROSCOPIC MULTISHOT SURVEY RUN INSIDE 4-1/2" DRILLPIPE       |                 |                 |                             |                                        |                           |                                       |                                   |
| ALL MEASURED DEPTHS AND COORDINATES REFERENCED TO PATTERSON #54 R.K.B. (+13 FT.) |                 |                 |                             |                                        |                           |                                       |                                   |
| -----                                                                            |                 |                 |                             |                                        |                           |                                       |                                   |
| 100.00                                                                           | 0.38            | 165.45          | -0.3                        | 0.38                                   | 100.00                    | 0.3 165.4                             | 0.32 S 0.08 E                     |
| 200.00                                                                           | 0.35            | 184.06          | -0.9                        | 0.12                                   | 200.00                    | 1.0 171.4                             | 0.94 S 0.14 E                     |
| 300.00                                                                           | 0.46            | 226.63          | -1.5                        | 0.31                                   | 299.99                    | 1.5 186.3                             | 1.52 S 0.17 W                     |
| 400.00                                                                           | 0.56            | 269.20          | -1.8                        | 0.38                                   | 399.99                    | 2.0 207.7                             | 1.80 S 0.95 W                     |
| 500.00                                                                           | 0.51            | 280.61          | -1.8                        | 0.12                                   | 499.99                    | 2.5 227.2                             | 1.73 S 1.87 W                     |
| 600.00                                                                           | 0.46            | 292.02          | -1.6                        | 0.11                                   | 599.98                    | 3.1 240.7                             | 1.50 S 2.67 W                     |
| 700.00                                                                           | 0.40            | 285.65          | -1.3                        | 0.07                                   | 699.98                    | 3.6 249.6                             | 1.26 S 3.38 W                     |
| 800.00                                                                           | 0.35            | 279.28          | -1.2                        | 0.07                                   | 799.98                    | 4.2 254.5                             | 1.11 S 4.01 W                     |
| 900.00                                                                           | 0.45            | 274.49          | -1.1                        | 0.11                                   | 899.98                    | 4.8 257.6                             | 1.03 S 4.70 W                     |
| 1000.00                                                                          | 0.56            | 269.70          | -1.1                        | 0.12                                   | 999.97                    | 5.7 259.8                             | 1.00 S 5.59 W                     |
| 1100.00                                                                          | 0.70            | 277.17          | -1.1                        | 0.16                                   | 1099.97                   | 6.8 262.1                             | 0.93 S 6.69 W                     |
| 1200.00                                                                          | 0.84            | 284.64          | -0.9                        | 0.17                                   | 1199.96                   | 8.0 265.2                             | 0.67 S 8.01 W                     |
| 1300.00                                                                          | 0.77            | 278.14          | -0.6                        | 0.11                                   | 1299.95                   | 9.4 267.6                             | 0.39 S 9.38 W                     |
| 1400.00                                                                          | 0.71            | 271.64          | -0.5                        | 0.11                                   | 1399.94                   | 10.7 268.5                            | 0.27 S 10.67 W                    |
| 1500.00                                                                          | 0.65            | 271.30          | -0.5                        | 0.05                                   | 1499.93                   | 11.9 268.8                            | 0.24 S 11.86 W                    |
| 1600.00                                                                          | 0.60            | 270.96          | -0.5                        | 0.05                                   | 1599.93                   | 13.0 269.0                            | 0.22 S 12.95 W                    |
| 1700.00                                                                          | 0.65            | 275.52          | -0.5                        | 0.07                                   | 1699.92                   | 14.0 269.4                            | 0.16 S 14.05 W                    |
| 1800.00                                                                          | 0.70            | 280.07          | -0.4                        | 0.07                                   | 1799.91                   | 15.2 270.0                            | 0.00 N 15.22 W                    |
| 1900.00                                                                          | 0.72            | 280.20          | -0.2                        | 0.01                                   | 1899.91                   | 16.4 270.8                            | 0.22 N 16.44 W                    |

# A Gyrodata Directional Survey

MEWBOURNE OIL CO.

Location: PATTERSON #45, EDDY COUNTY, NEW MEXICO

Lease: FOUR MILE DRAW 21 Well: #1H, 4-1/2" DRILLPIPE

Job Number: MD0310GVCW153

| MEASURED<br>DEPTH<br>feet | I N C L<br>deg. | AZIMUTH<br>deg. | VERTICAL<br>SECTION<br>feet | DOGLEG<br>SEVERITY<br>deg./<br>100 ft. | VERTICAL<br>DEPTH<br>feet | CLOSURE<br>DIST. AZIMUTH<br>feet deg. | HORIZONTAL<br>COORDINATES<br>feet |
|---------------------------|-----------------|-----------------|-----------------------------|----------------------------------------|---------------------------|---------------------------------------|-----------------------------------|
| 2000.00                   | 0.73            | 280.33          | 0.0                         | 0.01                                   | 1999.90                   | 17.7 271.4                            | 0.45 N 17.68 W                    |
| 2100.00                   | 0.83            | 279.15          | 0.2                         | 0.10                                   | 2099.89                   | 19.0 272.0                            | 0.68 N 19.02 W                    |
| 2200.00                   | 0.93            | 277.97          | 0.4                         | 0.10                                   | 2199.88                   | 20.6 272.5                            | 0.90 N 20.53 W                    |
| 2300.00                   | 0.97            | 275.88          | 0.6                         | 0.05                                   | 2299.86                   | 22.2 272.8                            | 1.10 N 22.17 W                    |
| 2400.00                   | 1.01            | 273.80          | 0.7                         | 0.05                                   | 2399.85                   | 23.9 273.0                            | 1.25 N 23.89 W                    |
| 2500.00                   | 0.90            | 279.69          | 0.8                         | 0.15                                   | 2499.83                   | 25.6 273.2                            | 1.44 N 25.54 W                    |
| 2600.00                   | 0.79            | 285.58          | 1.1                         | 0.14                                   | 2599.82                   | 27.0 273.7                            | 1.75 N 26.97 W                    |
| 2700.00                   | 0.77            | 287.99          | 1.5                         | 0.04                                   | 2699.81                   | 28.4 274.3                            | 2.14 N 28.27 W                    |
| 2800.00                   | 0.74            | 290.40          | 1.9                         | 0.04                                   | 2799.81                   | 29.6 275.0                            | 2.58 N 29.51 W                    |
| 2900.00                   | 0.72            | 285.50          | 2.2                         | 0.07                                   | 2899.80                   | 30.9 275.5                            | 2.97 N 30.73 W                    |
| 3000.00                   | 0.70            | 280.60          | 2.5                         | 0.06                                   | 2999.79                   | 32.1 275.8                            | 3.25 N 31.93 W                    |
| 3100.00                   | 0.71            | 280.92          | 2.7                         | 0.01                                   | 3099.78                   | 33.3 276.0                            | 3.48 N 33.14 W                    |
| 3200.00                   | 0.72            | 281.25          | 2.9                         | 0.01                                   | 3199.77                   | 34.6 276.2                            | 3.72 N 34.37 W                    |
| 3300.00                   | 0.45            | 298.39          | 3.2                         | 0.32                                   | 3299.77                   | 35.6 276.5                            | 4.03 N 35.33 W                    |
| 3400.00                   | 0.18            | 315.53          | 3.5                         | 0.28                                   | 3399.77                   | 36.0 276.9                            | 4.33 N 35.79 W                    |
| 3500.00                   | 0.39            | 277.04          | 3.9                         | 0.38                                   | 3499.77                   | 36.1 277.6                            | 4.74 N 35.74 W                    |
| 3600.00                   | 0.60            | 98.56           | 4.1                         | 0.61                                   | 3599.76                   | 35.4 278.1                            | 4.97 N 35.07 W                    |
| 3700.00                   | 0.77            | 97.87           | 4.0                         | 0.17                                   | 3699.76                   | 34.2 278.1                            | 4.80 N 33.88 W                    |
| 3798.00                   | 0.94            | 97.20           | 3.8                         | 0.17                                   | 3797.74                   | 32.7 278.1                            | 4.61 N 32.42 W                    |

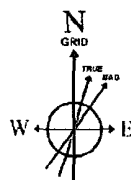
Final Station Closure: Distance: 32.75 ft Az: 278.09 deg.

# Mewbourne Oil Company

Location: Eddy County, NM Slot: No. 1H SHL  
Field: (Four) Sec 21, T18S, R23E Well: No. 1H  
Facility: Four Mile Draw 21 State Com #1H Wellbore: No. 1H PWB

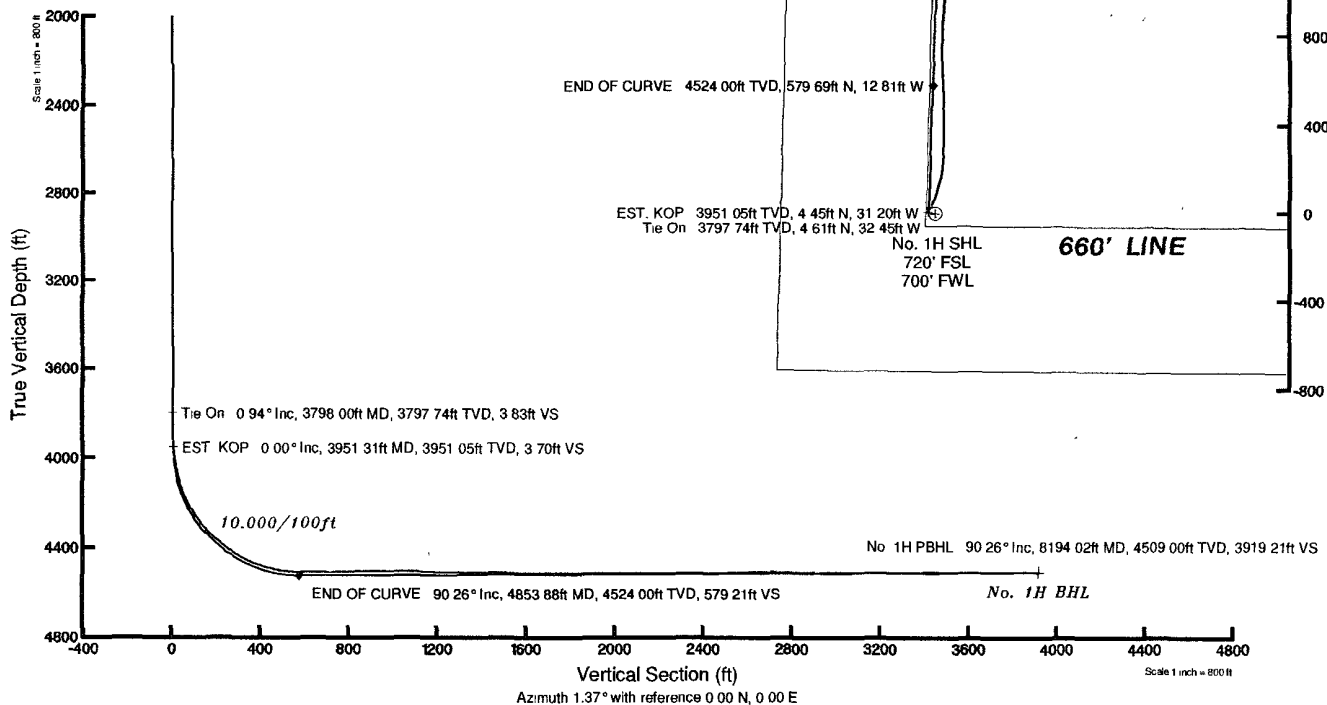


| Well Profile Data |         |         |        |          |              |              |         |
|-------------------|---------|---------|--------|----------|--------------|--------------|---------|
| Design Comment    | MD (ft) | Inc (°) | Az (°) | TVD (ft) | Local N (ft) | Local E (ft) | VS (ft) |
| Tie On            | 3796.00 | 0.940   | 97.200 | 3797.74  | 4.61         | -32.45       | 3.83    |
| EST. KOP          | 3951.31 | 0.000   | 1.832  | 3951.05  | 4.45         | -31.20       | 3.70    |
| END OF CURVE      | 4853.88 | 90.257  | 1.832  | 4524.00  | 579.69       | -12.81       | 579.21  |
| No. 1H PWB        | 8194.02 | 90.257  | 1.832  | 4509.00  | 3918.08      | 93.96        | 3919.21 |



BGGM (1945.0 to 2011.0) Dip 60.50° Field 48987.4 nT  
Magnetic North is 8.37 degrees East of True North (at 12/3/2009)  
Grid North is 0.20 degrees West of True North  
To correct azimuth from True to Grid add 0.20 degrees  
To correct azimuth from Magnetic to Grid add 8.57 degrees  
For example if the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 8.57 = 98.57

| Not reference wellpath is Plan 80 vs Actual -FINAL-                               |                                                                              |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| True vertical depths are referenced to Rig Patterson 47 on No. 1H SHL (RT)        | Grid System: NAD27 / TM New Mexico State Plane, Eastern Zone (2001), US feet |
| Measured depths are referenced to Rig Patterson 47 on No. 1H SHL (RT)             | North Reference: Grid north                                                  |
| Rig Patterson 47 on No. 1H SHL (RT) to Mean Sea Level 4017 feet                   | Scale: True distance                                                         |
| Mean Sea Level to Mud line (Facility: Four Mile Draw 21 State Com #1H) -3992 feet | Depths are in feet                                                           |
| Coordinates are in feet referenced to State                                       | Created by: Victor Hernandez on 3/22/2010                                    |



## Actual Wellpath Report

No. 1H AWP

Page 1 of 8

INTEQ

## REFERENCE WELLPATH IDENTIFICATION

|          |                                 |          |            |
|----------|---------------------------------|----------|------------|
| Operator | Mewbourne Oil Company           | Slot     | No. 1H SHL |
| Area     | Eddy County, NM                 | Well     | No. 1H     |
| Field    | (Four) Sec 21, T18S, R23E       | Wellbore | No. 1H AWB |
| Facility | Four Mile Draw 21 State Com #1H |          |            |

## REPORT SETUP INFORMATION

|                     |                                                                  |                      |                           |
|---------------------|------------------------------------------------------------------|----------------------|---------------------------|
| Projection System   | NAD27 / TM New Mexico State Planes, Eastern Zone (3001), US feet | Software System      | WellArchitect@ 2.0        |
| North Reference     | Grid                                                             | User                 | Victor Hernandez          |
| Scale               | 0.999924                                                         | Report Generated     | 3/22/2010 at 2:50:20 PM   |
| Convergence at slot | 0.20° West                                                       | Database/Source file | WA_Midland/No. 1H_AWB.xml |

## WELLPATH LOCATION

|                       | Local coordinates |          | Grid coordinates |                | Geographic coordinates |                 |
|-----------------------|-------------------|----------|------------------|----------------|------------------------|-----------------|
|                       | North[ft]         | East[ft] | Easting[USft]    | Northing[USft] | Latitude               | Longitude       |
| Slot Location         | 0.00              | 0.00     | 386589.78        | 628744.23      | 32°43'40.697"N         | 104°42'07.637"W |
| Facility Reference Pt |                   |          | 386589.78        | 628744.23      | 32°43'40.697"N         | 104°42'07.637"W |
| Field Reference Pt    |                   |          | 386589.78        | 628744.23      | 32°43'40.697"N         | 104°42'07.637"W |

## WELLPATH DATUM

|                          |                                     |                                                                |                   |
|--------------------------|-------------------------------------|----------------------------------------------------------------|-------------------|
| Calculation method       | Minimum curvature                   | Rig Patterson 47 on No. 1H SHL (RT) to Facility Vertical Datum | 18.00ft           |
| Horizontal Reference Pt  | Slot                                | Rig Patterson 47 on No. 1H SHL (RT) to Mean Sea Level          | 4017.00ft         |
| Vertical Reference Pt    | Rig Patterson 47 on No. 1H SHL (RT) | Facility Vertical Datum to Mud Line (Facility)                 | 0.00ft            |
| MD Reference Pt          | Rig Patterson 47 on No. 1H SHL (RT) | Section Origin                                                 | N 0.00, E 0.00 ft |
| Field Vertical Reference | Mean Sea Level                      | Section Azimuth                                                | 1.37°             |

## Actual Wellpath Report

No. 1H AWP

Page 2 of 8

INTEQ

## REFERENCE WELLPATH IDENTIFICATION

|          |                                 |          |            |
|----------|---------------------------------|----------|------------|
| Operator | Mewbourne Oil Company           | Slot     | No. 1H SHL |
| Area     | Eddy County, NM                 | Well     | No. 1H     |
| Field    | (Four) Sec 21, T18S, R23E       | Wellbore | No. 1H AWP |
| Facility | Four Mile Draw 21 State Com #1H |          |            |

## WELLPATH DATA (176 stations)

| MD<br>[ft] | Inclination<br>[°] | Azimuth<br>[°] | TVD<br>[ft] | Vert Sect<br>[ft] | North<br>[ft] | East<br>[ft] | Grid East<br>[srv ft] | Grid North<br>[srv ft] | Latitude       | Longitude       | DLS<br>[°/100ft] |
|------------|--------------------|----------------|-------------|-------------------|---------------|--------------|-----------------------|------------------------|----------------|-----------------|------------------|
| 0.00       | 0.000              | 165.450        | 0.00        | 0.00              | 0.00          | 0.00         | 386589.78             | 628744.23              | 32°43'40.697"N | 104°42'07.637"W | 0.00             |
| 100.00     | 0.380              | 165.450        | 100.00      | -0.32             | -0.32         | 0.08         | 386589.86             | 628743.91              | 32°43'40.693"N | 104°42'07.636"W | 0.38             |
| 200.00     | 0.350              | 184.060        | 200.00      | -0.94             | -0.95         | 0.14         | 386589.92             | 628743.28              | 32°43'40.687"N | 104°42'07.635"W | 0.12             |
| 300.00     | 0.460              | 226.630        | 299.99      | -1.53             | -1.53         | -0.17        | 386589.61             | 628742.70              | 32°43'40.681"N | 104°42'07.639"W | 0.31             |
| 400.00     | 0.560              | 269.200        | 399.99      | -1.83             | -1.81         | -0.95        | 386588.83             | 628742.42              | 32°43'40.679"N | 104°42'07.648"W | 0.38             |
| 500.00     | 0.510              | 280.610        | 499.99      | -1.78             | -1.73         | -1.87        | 386587.91             | 628742.50              | 32°43'40.679"N | 104°42'07.659"W | 0.12             |
| 600.00     | 0.460              | 292.020        | 599.98      | -1.57             | -1.50         | -2.68        | 386587.10             | 628742.73              | 32°43'40.682"N | 104°42'07.668"W | 0.11             |
| 700.00     | 0.400              | 285.650        | 699.98      | -1.34             | -1.26         | -3.39        | 386586.39             | 628742.97              | 32°43'40.684"N | 104°42'07.676"W | 0.08             |
| 800.00     | 0.350              | 279.280        | 799.98      | -1.21             | -1.11         | -4.03        | 386585.75             | 628743.12              | 32°43'40.685"N | 104°42'07.684"W | 0.07             |
| 900.00     | 0.450              | 274.490        | 899.98      | -1.15             | -1.03         | -4.72        | 386585.06             | 628743.20              | 32°43'40.686"N | 104°42'07.692"W | 0.11             |
| 1000.00    | 0.560              | 269.700        | 999.97      | -1.14             | -1.01         | -5.60        | 386584.18             | 628743.22              | 32°43'40.686"N | 104°42'07.702"W | 0.12             |
| 1100.00    | 0.700              | 277.170        | 1099.97     | -1.09             | -0.93         | -6.70        | 386583.08             | 628743.30              | 32°43'40.687"N | 104°42'07.715"W | 0.16             |
| 1200.00    | 0.840              | 284.640        | 1199.96     | -0.86             | -0.67         | -8.01        | 386581.77             | 628743.56              | 32°43'40.690"N | 104°42'07.731"W | 0.17             |
| 1300.00    | 0.770              | 278.140        | 1299.95     | -0.61             | -0.39         | -9.39        | 386580.39             | 628743.84              | 32°43'40.692"N | 104°42'07.747"W | 0.11             |
| 1400.00    | 0.710              | 271.640        | 1399.94     | -0.53             | -0.28         | -10.67       | 386579.11             | 628743.95              | 32°43'40.693"N | 104°42'07.762"W | 0.10             |
| 1500.00    | 0.650              | 271.300        | 1499.93     | -0.53             | -0.25         | -11.86       | 386577.92             | 628743.98              | 32°43'40.694"N | 104°42'07.776"W | 0.06             |
| 1600.00    | 0.600              | 270.960        | 1599.93     | -0.54             | -0.22         | -12.95       | 386576.83             | 628744.01              | 32°43'40.694"N | 104°42'07.788"W | 0.05             |
| 1700.00    | 0.650              | 275.520        | 1699.92     | -0.50             | -0.16         | -14.04       | 386575.74             | 628744.07              | 32°43'40.694"N | 104°42'07.801"W | 0.07             |
| 1800.00    | 0.700              | 280.070        | 1799.91     | -0.36             | 0.00          | -15.20       | 386574.58             | 628744.23              | 32°43'40.696"N | 104°42'07.815"W | 0.07             |
| 1900.00    | 0.720              | 280.200        | 1899.91     | -0.18             | 0.22          | -16.42       | 386573.36             | 628744.45              | 32°43'40.698"N | 104°42'07.829"W | 0.02             |
| 2000.00    | 0.730              | 280.330        | 1999.90     | 0.02              | 0.44          | -17.67       | 386572.11             | 628744.67              | 32°43'40.700"N | 104°42'07.844"W | 0.01             |
| 2100.00    | 0.830              | 279.150        | 2099.89     | 0.22              | 0.67          | -19.01       | 386570.77             | 628744.90              | 32°43'40.703"N | 104°42'07.859"W | 0.10             |
| 2200.00    | 0.930              | 277.970        | 2199.88     | 0.41              | 0.90          | -20.53       | 386569.25             | 628745.13              | 32°43'40.705"N | 104°42'07.877"W | 0.10             |
| 2300.00    | 0.970              | 275.880        | 2299.86     | 0.57              | 1.10          | -22.17       | 386567.61             | 628745.33              | 32°43'40.707"N | 104°42'07.896"W | 0.05             |
| 2400.00    | 1.010              | 273.800        | 2399.85     | 0.67              | 1.24          | -23.90       | 386565.89             | 628745.47              | 32°43'40.708"N | 104°42'07.917"W | 0.05             |
| 2500.00    | 0.900              | 279.690        | 2499.83     | 0.82              | 1.44          | -25.55       | 386564.23             | 628745.67              | 32°43'40.710"N | 104°42'07.936"W | 0.15             |
| 2600.00    | 0.790              | 285.580        | 2599.82     | 1.11              | 1.75          | -26.99       | 386562.79             | 628745.98              | 32°43'40.713"N | 104°42'07.953"W | 0.14             |
| 2700.00    | 0.770              | 287.990        | 2699.81     | 1.47              | 2.15          | -28.29       | 386561.49             | 628746.38              | 32°43'40.717"N | 104°42'07.968"W | 0.04             |
| 2800.00    | 0.740              | 290.400        | 2799.80     | 1.87              | 2.58          | -29.54       | 386560.25             | 628746.81              | 32°43'40.721"N | 104°42'07.983"W | 0.04             |
| 2900.00    | 0.720              | 285.500        | 2899.80     | 2.23              | 2.97          | -30.75       | 386559.04             | 628747.20              | 32°43'40.725"N | 104°42'07.997"W | 0.07             |

## Actual Wellpath Report

No. 1H AWP

Page 3 of 8

INTEQ

## REFERENCE WELLPATH IDENTIFICATION

|          |                                 |          |            |
|----------|---------------------------------|----------|------------|
| Operator | Mewbourne Oil Company           | Slot     | No. 1H SHL |
| Area     | Eddy County, NM                 | Well     | No. 1H     |
| Field    | (Four) Sec 21, T18S, R23E       | Wellbore | No. 1H AWP |
| Facility | Four Mile Draw 21 State Com #1H |          |            |

## WELLPATH DATA (176 stations)

| MD<br>[ft] | Inclination<br>[°] | Azimuth<br>[°] | TVD<br>[ft] | Vert Sect<br>[ft] | North<br>[ft] | East<br>[ft] | Grid East<br>[srv ft] | Grid North<br>[srv ft] | Latitude       | Longitude       | DLS<br>[°/100ft] |
|------------|--------------------|----------------|-------------|-------------------|---------------|--------------|-----------------------|------------------------|----------------|-----------------|------------------|
| 3000.00    | 0.700              | 280.600        | 2999.79     | 2.48              | 3.25          | -31.95       | 386557.83             | 628747.48              | 32°43'40.728"N | 104°42'08.011"W | 0.06             |
| 3100.00    | 0.710              | 280.920        | 3099.78     | 2.69              | 3.48          | -33.16       | 386556.62             | 628747.71              | 32°43'40.730"N | 104°42'08.025"W | 0.01             |
| 3200.00    | 0.720              | 281.250        | 3199.77     | 2.90              | 3.72          | -34.39       | 386555.40             | 628747.95              | 32°43'40.732"N | 104°42'08.039"W | 0.01             |
| 3300.00    | 0.450              | 298.390        | 3299.77     | 3.18              | 4.03          | -35.35       | 386554.44             | 628748.26              | 32°43'40.735"N | 104°42'08.051"W | 0.32             |
| 3400.00    | 0.180              | 315.530        | 3399.77     | 3.47              | 4.33          | -35.80       | 386553.98             | 628748.56              | 32°43'40.738"N | 104°42'08.056"W | 0.28             |
| 3500.00    | 0.390              | 27.040         | 3499.77     | 3.89              | 4.74          | -35.76       | 386554.03             | 628748.97              | 32°43'40.742"N | 104°42'08.056"W | 0.37             |
| 3600.00    | 0.600              | 98.560         | 3599.76     | 4.13              | 4.97          | -35.09       | 386554.70             | 628749.20              | 32°43'40.745"N | 104°42'08.048"W | 0.60             |
| 3700.00    | 0.770              | 97.870         | 3699.76     | 3.99              | 4.80          | -33.90       | 386555.88             | 628749.03              | 32°43'40.743"N | 104°42'08.034"W | 0.17             |
| 3798.00    | 0.940              | 97.200         | 3797.74     | 3.83              | 4.61          | -32.45       | 386557.33             | 628748.84              | 32°43'40.741"N | 104°42'08.017"W | 0.17             |
| 3838.00    | 1.100              | 88.900         | 3837.74     | 3.81              | 4.57          | -31.74       | 386558.04             | 628748.80              | 32°43'40.741"N | 104°42'08.008"W | 0.54             |
| 3877.00    | 1.400              | 92.200         | 3876.73     | 3.82              | 4.56          | -30.89       | 386558.89             | 628748.79              | 32°43'40.741"N | 104°42'07.999"W | 0.79             |
| 3902.00    | 1.600              | 86.600         | 3901.72     | 3.85              | 4.57          | -30.24       | 386559.54             | 628748.80              | 32°43'40.741"N | 104°42'07.991"W | 0.99             |
| 3934.00    | 2.300              | 50.700         | 3933.70     | 4.30              | 5.01          | -29.30       | 386560.49             | 628749.24              | 32°43'40.745"N | 104°42'07.980"W | 4.29             |
| 3965.00    | 4.800              | 26.200         | 3964.64     | 5.89              | 6.56          | -28.24       | 386561.54             | 628750.79              | 32°43'40.761"N | 104°42'07.968"W | 9.26             |
| 3997.00    | 7.800              | 23.700         | 3996.45     | 9.11              | 9.75          | -26.78       | 386563.00             | 628753.98              | 32°43'40.792"N | 104°42'07.951"W | 9.41             |
| 4029.00    | 11.200             | 23.400         | 4028.00     | 14.00             | 14.60         | -24.67       | 386565.11             | 628758.83              | 32°43'40.840"N | 104°42'07.926"W | 10.63            |
| 4060.00    | 14.600             | 22.000         | 4058.22     | 20.45             | 20.98         | -22.01       | 386567.77             | 628765.21              | 32°43'40.903"N | 104°42'07.895"W | 11.01            |
| 4092.00    | 18.100             | 20.800         | 4088.92     | 28.92             | 29.37         | -18.73       | 386571.05             | 628773.60              | 32°43'40.987"N | 104°42'07.857"W | 10.99            |
| 4124.00    | 21.100             | 20.600         | 4119.06     | 39.04             | 39.41         | -14.94       | 386574.84             | 628783.64              | 32°43'41.086"N | 104°42'07.813"W | 9.38             |
| 4156.00    | 24.000             | 20.900         | 4148.61     | 50.62             | 50.89         | -10.59       | 386579.19             | 628795.11              | 32°43'41.200"N | 104°42'07.763"W | 9.07             |
| 4188.00    | 26.600             | 20.000         | 4177.54     | 63.54             | 63.70         | -5.82        | 386583.96             | 628807.93              | 32°43'41.327"N | 104°42'07.707"W | 8.21             |
| 4219.00    | 28.700             | 19.300         | 4205.00     | 77.20             | 77.25         | -0.98        | 386588.80             | 628821.47              | 32°43'41.461"N | 104°42'07.651"W | 6.85             |
| 4251.00    | 31.400             | 17.300         | 4232.69     | 92.53             | 92.46         | 4.04         | 386593.82             | 628836.69              | 32°43'41.612"N | 104°42'07.593"W | 9.00             |
| 4283.00    | 34.400             | 16.100         | 4259.56     | 109.30            | 109.11        | 9.02         | 386598.80             | 628853.33              | 32°43'41.776"N | 104°42'07.536"W | 9.59             |
| 4315.00    | 37.600             | 14.200         | 4285.44     | 127.56            | 127.27        | 13.93        | 386603.70             | 628871.49              | 32°43'41.956"N | 104°42'07.479"W | 10.59            |
| 4346.00    | 41.100             | 13.000         | 4309.41     | 146.77            | 146.37        | 18.54        | 386608.32             | 628890.59              | 32°43'42.145"N | 104°42'07.426"W | 11.55            |
| 4378.00    | 44.700             | 11.500         | 4332.85     | 168.16            | 167.65        | 23.15        | 386612.93             | 628911.87              | 32°43'42.356"N | 104°42'07.373"W | 11.69            |
| 4409.00    | 47.300             | 9.900          | 4354.38     | 190.16            | 189.56        | 27.28        | 386617.06             | 628933.78              | 32°43'42.573"N | 104°42'07.325"W | 9.17             |
| 4441.00    | 49.800             | 8.200          | 4375.57     | 213.93            | 213.25        | 31.05        | 386620.83             | 628957.46              | 32°43'42.808"N | 104°42'07.282"W | 8.77             |
| 4472.00    | 52.400             | 6.000          | 4395.03     | 237.93            | 237.18        | 34.02        | 386623.80             | 628981.40              | 32°43'43.045"N | 104°42'07.248"W | 10.04            |

## Actual Wellpath Report

No. 1H AWP

Page 4 of 8

INTEQ

## REFERENCE WELLPATH IDENTIFICATION

|          |                                 |          |            |
|----------|---------------------------------|----------|------------|
| Operator | Mewbourne Oil Company           | Slot     | No. 1H SHL |
| Area     | Eddy County, NM                 | Well     | No. 1H     |
| Field    | (Four) Sec 21, T18S, R23E       | Wellbore | No. 1H AWP |
| Facility | Four Mile Draw 21 State Com #1H |          |            |

## WELLPATH DATA (176 stations)

| MD<br>[ft] | Inclination<br>[°] | Azimuth<br>[°] | TVD<br>[ft] | Vert Sect<br>[ft] | North<br>[ft] | East<br>[ft] | Grid East<br>[srv ft] | Grid North<br>[srv ft] | Latitude       | Longitude       | DLS<br>[°/100ft] |
|------------|--------------------|----------------|-------------|-------------------|---------------|--------------|-----------------------|------------------------|----------------|-----------------|------------------|
| 4504.00    | 55.400             | 3.700          | 4413.89     | 263.73            | 262.94        | 36.20        | 386625.97             | 629007.15              | 32°43'43.300"N | 104°42'07.224"W | 11.03            |
| 4535.00    | 58.900             | 2.000          | 4430.70     | 289.76            | 288.95        | 37.48        | 386627.26             | 629033.15              | 32°43'43.557"N | 104°42'07.210"W | 12.19            |
| 4568.00    | 62.900             | 1.400          | 4446.75     | 318.59            | 317.76        | 38.34        | 386628.11             | 629061.97              | 32°43'43.842"N | 104°42'07.201"W | 12.22            |
| 4599.00    | 66.300             | 1.000          | 4460.04     | 346.59            | 345.76        | 38.92        | 386628.70             | 629089.96              | 32°43'44.119"N | 104°42'07.195"W | 11.03            |
| 4631.00    | 69.100             | 0.000          | 4472.18     | 376.19            | 375.36        | 39.18        | 386628.95             | 629119.56              | 32°43'44.412"N | 104°42'07.193"W | 9.22             |
| 4663.00    | 72.400             | 359.100        | 4482.73     | 406.38            | 405.56        | 38.94        | 386628.72             | 629149.76              | 32°43'44.711"N | 104°42'07.197"W | 10.65            |
| 4695.00    | 75.600             | 359.500        | 4491.55     | 437.12            | 436.32        | 38.56        | 386628.34             | 629180.51              | 32°43'45.015"N | 104°42'07.203"W | 10.07            |
| 4727.00    | 79.300             | 358.300        | 4498.50     | 468.32            | 467.54        | 37.96        | 386627.74             | 629211.73              | 32°43'45.324"N | 104°42'07.211"W | 12.13            |
| 4758.00    | 81.700             | 357.800        | 4503.62     | 498.84            | 498.10        | 36.92        | 386626.70             | 629242.29              | 32°43'45.626"N | 104°42'07.225"W | 7.90             |
| 4790.00    | 83.200             | 357.400        | 4507.82     | 530.49            | 529.79        | 35.59        | 386625.37             | 629273.98              | 32°43'45.940"N | 104°42'07.242"W | 4.85             |
| 4822.00    | 86.300             | 356.900        | 4510.75     | 562.27            | 561.61        | 34.01        | 386623.78             | 629305.80              | 32°43'46.255"N | 104°42'07.262"W | 9.81             |
| 4854.00    | 88.500             | 356.600        | 4512.20     | 594.13            | 593.53        | 32.20        | 386621.97             | 629337.71              | 32°43'46.570"N | 104°42'07.284"W | 6.94             |
| 4915.00    | 91.500             | 358.600        | 4512.20     | 654.98            | 654.46        | 29.64        | 386619.42             | 629398.64              | 32°43'47.173"N | 104°42'07.316"W | 5.91             |
| 4945.00    | 91.700             | 359.700        | 4511.37     | 684.95            | 684.45        | 29.20        | 386618.97             | 629428.62              | 32°43'47.470"N | 104°42'07.323"W | 3.73             |
| 4975.00    | 91.400             | 1.100          | 4510.55     | 714.93            | 714.43        | 29.41        | 386619.18             | 629458.61              | 32°43'47.767"N | 104°42'07.322"W | 4.77             |
| 5006.00    | 91.200             | 1.900          | 4509.85     | 745.93            | 745.42        | 30.22        | 386619.99             | 629489.59              | 32°43'48.073"N | 104°42'07.313"W | 2.66             |
| 5037.00    | 91.500             | 2.400          | 4509.12     | 776.91            | 776.38        | 31.38        | 386621.16             | 629520.55              | 32°43'48.380"N | 104°42'07.301"W | 1.88             |
| 5067.00    | 92.000             | 2.200          | 4508.20     | 806.90            | 806.35        | 32.58        | 386622.36             | 629550.51              | 32°43'48.676"N | 104°42'07.288"W | 1.79             |
| 5098.00    | 92.200             | 2.300          | 4507.07     | 837.87            | 837.30        | 33.80        | 386623.58             | 629581.47              | 32°43'48.982"N | 104°42'07.275"W | 0.72             |
| 5128.00    | 91.900             | 2.000          | 4506.00     | 867.85            | 867.26        | 34.92        | 386624.70             | 629611.42              | 32°43'49.279"N | 104°42'07.263"W | 1.41             |
| 5159.00    | 91.500             | 1.500          | 4505.08     | 898.84            | 898.23        | 35.87        | 386625.65             | 629642.39              | 32°43'49.585"N | 104°42'07.253"W | 2.06             |
| 5189.00    | 91.400             | 2.000          | 4504.32     | 928.82            | 928.21        | 36.79        | 386626.56             | 629672.37              | 32°43'49.882"N | 104°42'07.244"W | 1.70             |
| 5220.00    | 90.700             | 1.900          | 4503.75     | 959.82            | 959.19        | 37.84        | 386627.62             | 629703.34              | 32°43'50.189"N | 104°42'07.233"W | 2.28             |
| 5249.00    | 89.700             | 2.000          | 4503.65     | 988.82            | 988.17        | 38.83        | 386628.60             | 629732.32              | 32°43'50.475"N | 104°42'07.222"W | 3.47             |
| 5280.00    | 88.200             | 2.700          | 4504.22     | 1019.80           | 1019.14       | 40.10        | 386629.88             | 629763.29              | 32°43'50.782"N | 104°42'07.209"W | 5.34             |
| 5310.00    | 87.900             | 1.800          | 4505.24     | 1049.78           | 1049.10       | 41.28        | 386631.05             | 629793.24              | 32°43'51.078"N | 104°42'07.196"W | 3.16             |
| 5339.00    | 87.900             | 2.100          | 4506.30     | 1078.76           | 1078.06       | 42.26        | 386632.04             | 629822.21              | 32°43'51.365"N | 104°42'07.186"W | 1.03             |
| 5369.00    | 87.600             | 1.500          | 4507.48     | 1108.74           | 1108.02       | 43.20        | 386632.98             | 629852.16              | 32°43'51.661"N | 104°42'07.176"W | 2.23             |
| 5400.00    | 88.400             | 1.200          | 4508.56     | 1139.72           | 1138.99       | 43.93        | 386633.71             | 629883.13              | 32°43'51.968"N | 104°42'07.169"W | 2.76             |
| 5431.00    | 88.500             | 1.300          | 4509.40     | 1170.71           | 1169.97       | 44.61        | 386634.39             | 629914.11              | 32°43'52.275"N | 104°42'07.162"W | 0.46             |

## Actual Wellpath Report

No. 1H AWP

Page 5 of 8

INTEQ

## REFERENCE WELLPATH IDENTIFICATION

|          |                                 |          |            |
|----------|---------------------------------|----------|------------|
| Operator | Mewbourne Oil Company           | Slot     | No. 1H SHL |
| Area     | Eddy County, NM                 | Well     | No. 1H     |
| Field    | (Four) Sec 21, T18S, R23E       | Wellbore | No. 1H AWB |
| Facility | Four Mile Draw 21 State Com #1H |          |            |

## WELLPATH DATA (176 stations)

| MD<br>[ft] | Inclination<br>[°] | Azimuth<br>[°] | TVD<br>[ft] | Vert Sect<br>[ft] | North<br>[ft] | East<br>[ft] | Grid East<br>[srv ft] | Grid North<br>[srv ft] | Latitude       | Longitude       | DLS<br>[°/100ft] |
|------------|--------------------|----------------|-------------|-------------------|---------------|--------------|-----------------------|------------------------|----------------|-----------------|------------------|
| 5462.00    | 88.300             | 1.000          | 4510.26     | 1201.70           | 1200.96       | 45.23        | 386635.01             | 629945.09              | 32°43'52.581"N | 104°42'07.156"W | 1.16             |
| 5493.00    | 89.100             | 1.500          | 4510.97     | 1232.69           | 1231.94       | 45.91        | 386635.68             | 629976.07              | 32°43'52.888"N | 104°42'07.150"W | 3.04             |
| 5524.00    | 89.500             | 1.400          | 4511.34     | 1263.68           | 1262.93       | 46.69        | 386636.47             | 630007.06              | 32°43'53.194"N | 104°42'07.142"W | 1.33             |
| 5555.00    | 89.900             | 1.200          | 4511.51     | 1294.68           | 1293.92       | 47.39        | 386637.17             | 630038.05              | 32°43'53.501"N | 104°42'07.135"W | 1.44             |
| 5586.00    | 90.700             | 1.400          | 4511.34     | 1325.68           | 1324.91       | 48.10        | 386637.87             | 630069.04              | 32°43'53.808"N | 104°42'07.128"W | 2.66             |
| 5616.00    | 90.600             | 1.000          | 4511.00     | 1355.68           | 1354.90       | 48.73        | 386638.50             | 630099.03              | 32°43'54.104"N | 104°42'07.122"W | 1.37             |
| 5647.00    | 89.600             | 1.100          | 4510.95     | 1386.68           | 1385.90       | 49.29        | 386639.07             | 630130.02              | 32°43'54.411"N | 104°42'07.116"W | 3.24             |
| 5678.00    | 89.100             | 1.000          | 4511.30     | 1417.68           | 1416.89       | 49.86        | 386639.64             | 630161.01              | 32°43'54.718"N | 104°42'07.111"W | 1.64             |
| 5708.00    | 89.000             | 1.500          | 4511.80     | 1447.67           | 1446.88       | 50.52        | 386640.29             | 630191.00              | 32°43'55.015"N | 104°42'07.104"W | 1.70             |
| 5739.00    | 89.100             | 1.300          | 4512.31     | 1478.67           | 1477.86       | 51.27        | 386641.05             | 630221.98              | 32°43'55.321"N | 104°42'07.097"W | 0.72             |
| 5770.00    | 89.100             | 1.600          | 4512.80     | 1509.67           | 1508.85       | 52.06        | 386641.83             | 630252.96              | 32°43'55.628"N | 104°42'07.089"W | 0.97             |
| 5801.00    | 89.800             | 1.200          | 4513.10     | 1540.66           | 1539.84       | 52.82        | 386642.59             | 630283.95              | 32°43'55.934"N | 104°42'07.081"W | 2.60             |
| 5831.00    | 90.000             | 1.100          | 4513.15     | 1570.66           | 1569.83       | 53.42        | 386643.19             | 630313.94              | 32°43'56.231"N | 104°42'07.075"W | 0.75             |
| 5863.00    | 89.900             | 1.300          | 4513.18     | 1602.66           | 1601.83       | 54.09        | 386643.86             | 630345.93              | 32°43'56.548"N | 104°42'07.069"W | 0.70             |
| 5895.00    | 89.600             | 0.900          | 4513.32     | 1634.66           | 1633.82       | 54.70        | 386644.48             | 630377.92              | 32°43'56.864"N | 104°42'07.063"W | 1.56             |
| 5927.00    | 89.200             | 0.800          | 4513.65     | 1666.66           | 1665.82       | 55.18        | 386644.95             | 630409.92              | 32°43'57.181"N | 104°42'07.059"W | 1.29             |
| 5959.00    | 89.000             | 1.200          | 4514.16     | 1698.65           | 1697.81       | 55.74        | 386645.51             | 630441.90              | 32°43'57.498"N | 104°42'07.053"W | 1.40             |
| 5990.00    | 89.900             | 2.000          | 4514.45     | 1729.65           | 1728.79       | 56.60        | 386646.38             | 630472.89              | 32°43'57.804"N | 104°42'07.045"W | 3.88             |
| 6022.00    | 90.100             | 2.100          | 4514.45     | 1761.65           | 1760.77       | 57.75        | 386647.52             | 630504.86              | 32°43'58.121"N | 104°42'07.033"W | 0.70             |
| 6054.00    | 90.400             | 2.000          | 4514.31     | 1793.65           | 1792.75       | 58.89        | 386648.67             | 630536.84              | 32°43'58.437"N | 104°42'07.020"W | 0.99             |
| 6086.00    | 90.400             | 4.000          | 4514.09     | 1825.63           | 1824.70       | 60.56        | 386650.34             | 630568.79              | 32°43'58.753"N | 104°42'07.002"W | 6.25             |
| 6118.00    | 90.300             | 2.700          | 4513.89     | 1857.61           | 1856.65       | 62.43        | 386652.21             | 630600.73              | 32°43'59.070"N | 104°42'06.982"W | 4.07             |
| 6150.00    | 90.200             | 2.900          | 4513.75     | 1889.60           | 1888.61       | 64.00        | 386653.77             | 630632.69              | 32°43'59.386"N | 104°42'06.965"W | 0.70             |
| 6181.00    | 90.200             | 2.200          | 4513.65     | 1920.59           | 1919.58       | 65.38        | 386655.15             | 630663.66              | 32°43'59.692"N | 104°42'06.950"W | 2.26             |
| 6213.00    | 89.800             | 2.400          | 4513.65     | 1952.59           | 1951.55       | 66.66        | 386656.44             | 630695.63              | 32°44'00.009"N | 104°42'06.936"W | 1.40             |
| 6245.00    | 89.000             | 1.600          | 4513.98     | 1984.59           | 1983.53       | 67.78        | 386657.55             | 630727.61              | 32°44'00.325"N | 104°42'06.924"W | 3.54             |
| 6277.00    | 89.000             | 1.900          | 4514.54     | 2016.58           | 2015.51       | 68.76        | 386658.53             | 630759.58              | 32°44'00.642"N | 104°42'06.914"W | 0.94             |
| 6309.00    | 89.700             | 1.600          | 4514.90     | 2048.58           | 2047.49       | 69.73        | 386659.51             | 630791.56              | 32°44'00.958"N | 104°42'06.904"W | 2.38             |
| 6341.00    | 89.700             | 2.100          | 4515.07     | 2080.58           | 2079.48       | 70.77        | 386660.54             | 630823.54              | 32°44'01.275"N | 104°42'06.893"W | 1.56             |
| 6373.00    | 89.600             | 2.600          | 4515.27     | 2112.57           | 2111.45       | 72.08        | 386661.85             | 630855.51              | 32°44'01.591"N | 104°42'06.879"W | 1.59             |

## Actual Wellpath Report

No. 1H AWP

Page 6 of 8

INTEQ

## REFERENCE WELLPATH IDENTIFICATION

|          |                                 |          |            |
|----------|---------------------------------|----------|------------|
| Operator | Mewbourne Oil Company           | Slot     | No. 1H SHL |
| Area     | Eddy County, NM                 | Well     | No. 1H     |
| Field    | (Four) Sec 21, T18S, R23E       | Wellbore | No. 1H AWP |
| Facility | Four Mile Draw 21 State Com #1H |          |            |

## WELLPATH DATA (176 stations)

| MD<br>[ft] | Inclination<br>[°] | Azimuth<br>[°] | TVD<br>[ft] | Vert Sect<br>[ft] | North<br>[ft] | East<br>[ft] | Grid East<br>[srv ft] | Grid North<br>[srv ft] | Latitude       | Longitude       | DLS<br>[°/100ft] |
|------------|--------------------|----------------|-------------|-------------------|---------------|--------------|-----------------------|------------------------|----------------|-----------------|------------------|
| 6404.00    | 90.100             | 1.600          | 4515.35     | 2143.57           | 2142.43       | 73.21        | 386662.99             | 630886.49              | 32°44'01.898"N | 104°42'06.867"W | 3.61             |
| 6436.00    | 90.300             | 2.200          | 4515.24     | 2175.57           | 2174.41       | 74.27        | 386664.05             | 630918.47              | 32°44'02.214"N | 104°42'06.856"W | 1.98             |
| 6468.00    | 90.400             | 2.100          | 4515.04     | 2207.56           | 2206.39       | 75.47        | 386665.25             | 630950.44              | 32°44'02.530"N | 104°42'06.843"W | 0.44             |
| 6500.00    | 90.400             | 2.000          | 4514.82     | 2239.56           | 2238.37       | 76.62        | 386666.39             | 630982.42              | 32°44'02.847"N | 104°42'06.831"W | 0.31             |
| 6532.00    | 90.500             | 1.600          | 4514.57     | 2271.56           | 2270.35       | 77.62        | 386667.40             | 631014.40              | 32°44'03.163"N | 104°42'06.821"W | 1.29             |
| 6564.00    | 90.400             | 2.200          | 4514.31     | 2303.56           | 2302.33       | 78.69        | 386668.46             | 631046.38              | 32°44'03.480"N | 104°42'06.809"W | 1.90             |
| 6595.00    | 90.400             | 3.200          | 4514.10     | 2334.55           | 2333.29       | 80.15        | 386669.92             | 631077.34              | 32°44'03.786"N | 104°42'06.794"W | 3.23             |
| 6627.00    | 90.100             | 2.000          | 4513.96     | 2366.54           | 2365.26       | 81.60        | 386671.37             | 631109.31              | 32°44'04.103"N | 104°42'06.778"W | 3.87             |
| 6659.00    | 89.900             | 1.900          | 4513.96     | 2398.54           | 2397.24       | 82.69        | 386672.46             | 631141.28              | 32°44'04.419"N | 104°42'06.766"W | 0.70             |
| 6691.00    | 90.100             | 1.700          | 4513.96     | 2430.53           | 2429.23       | 83.69        | 386673.46             | 631173.27              | 32°44'04.736"N | 104°42'06.756"W | 0.88             |
| 6723.00    | 90.700             | 1.600          | 4513.73     | 2462.53           | 2461.21       | 84.61        | 386674.39             | 631205.25              | 32°44'05.052"N | 104°42'06.747"W | 1.90             |
| 6755.00    | 91.200             | 1.800          | 4513.20     | 2494.53           | 2493.19       | 85.56        | 386675.34             | 631237.23              | 32°44'05.369"N | 104°42'06.737"W | 1.68             |
| 6787.00    | 91.700             | 2.000          | 4512.39     | 2526.52           | 2525.17       | 86.62        | 386676.40             | 631269.20              | 32°44'05.685"N | 104°42'06.726"W | 1.68             |
| 6819.00    | 92.000             | 2.600          | 4511.36     | 2558.50           | 2557.12       | 87.91        | 386677.68             | 631301.15              | 32°44'06.001"N | 104°42'06.712"W | 2.10             |
| 6850.00    | 91.100             | 2.500          | 4510.52     | 2589.48           | 2588.08       | 89.28        | 386679.06             | 631332.11              | 32°44'06.308"N | 104°42'06.697"W | 2.92             |
| 6882.00    | 90.500             | 2.300          | 4510.08     | 2621.47           | 2620.05       | 90.62        | 386680.40             | 631364.07              | 32°44'06.624"N | 104°42'06.683"W | 1.98             |
| 6914.00    | 90.200             | 1.900          | 4509.88     | 2653.47           | 2652.03       | 91.80        | 386681.57             | 631396.05              | 32°44'06.940"N | 104°42'06.670"W | 1.56             |
| 6946.00    | 90.300             | 2.200          | 4509.74     | 2685.46           | 2684.01       | 92.94        | 386682.71             | 631428.03              | 32°44'07.257"N | 104°42'06.658"W | 0.99             |
| 6978.00    | 89.300             | 2.300          | 4509.85     | 2717.46           | 2715.98       | 94.20        | 386683.97             | 631460.00              | 32°44'07.573"N | 104°42'06.645"W | 3.14             |
| 7010.00    | 89.000             | 1.500          | 4510.33     | 2749.45           | 2747.96       | 95.26        | 386685.03             | 631491.97              | 32°44'07.890"N | 104°42'06.634"W | 2.67             |
| 7042.00    | 89.200             | 2.000          | 4510.83     | 2781.45           | 2779.94       | 96.24        | 386686.01             | 631523.95              | 32°44'08.206"N | 104°42'06.623"W | 1.68             |
| 7074.00    | 89.000             | 1.800          | 4511.33     | 2813.44           | 2811.92       | 97.30        | 386687.07             | 631555.93              | 32°44'08.523"N | 104°42'06.612"W | 0.88             |
| 7105.00    | 88.800             | 1.900          | 4511.93     | 2844.44           | 2842.90       | 98.30        | 386688.07             | 631586.91              | 32°44'08.829"N | 104°42'06.602"W | 0.72             |
| 7137.00    | 89.100             | 0.900          | 4512.51     | 2876.43           | 2874.88       | 99.08        | 386688.85             | 631618.89              | 32°44'09.146"N | 104°42'06.594"W | 3.26             |
| 7169.00    | 89.700             | 2.200          | 4512.85     | 2908.43           | 2906.87       | 99.94        | 386689.72             | 631650.87              | 32°44'09.462"N | 104°42'06.585"W | 4.47             |
| 7201.00    | 91.100             | 2.100          | 4512.63     | 2940.42           | 2938.84       | 101.15       | 386690.92             | 631682.84              | 32°44'09.779"N | 104°42'06.572"W | 4.39             |
| 7233.00    | 91.500             | 2.600          | 4511.90     | 2972.41           | 2970.81       | 102.46       | 386692.23             | 631714.81              | 32°44'10.095"N | 104°42'06.558"W | 2.00             |
| 7265.00    | 91.600             | 2.400          | 4511.03     | 3004.39           | 3002.77       | 103.85       | 386693.62             | 631746.76              | 32°44'10.411"N | 104°42'06.543"W | 0.70             |
| 7297.00    | 90.500             | 1.800          | 4510.45     | 3036.38           | 3034.74       | 105.02       | 386694.80             | 631778.73              | 32°44'10.728"N | 104°42'06.531"W | 3.92             |
| 7329.00    | 88.700             | 1.200          | 4510.67     | 3068.38           | 3066.73       | 105.86       | 386695.63             | 631810.72              | 32°44'11.044"N | 104°42'06.522"W | 5.93             |

## Actual Wellpath Report

No. 1H AWP

Page 7 of 8

INTEQ

## REFERENCE WELLPATH IDENTIFICATION

|          |                                 |          |            |
|----------|---------------------------------|----------|------------|
| Operator | Mewbourne Oil Company           | Slot     | No. 1H SHL |
| Area     | Eddy County, NM                 | Well     | No. 1H     |
| Field    | (Four) Sec 21, T18S, R23E       | Wellbore | No. 1H AWP |
| Facility | Four Mile Draw 21 State Com #1H |          |            |

## WELLPATH DATA (176 stations)

| MD<br>[ft] | Inclination<br>[°] | Azimuth<br>[°] | TVD<br>[ft] | Vert Sect<br>[ft] | North<br>[ft] | East<br>[ft] | Grid East<br>[srv ft] | Grid North<br>[srv ft] | Latitude       | Longitude       | DLS<br>[°/100ft] |
|------------|--------------------|----------------|-------------|-------------------|---------------|--------------|-----------------------|------------------------|----------------|-----------------|------------------|
| 7361.00    | 88.700             | 1.400          | 4511.40     | 3100.37           | 3098.71       | 106.59       | 386696.36             | 631842.70              | 32°44'11.361"N | 104°42'06.515"W | 0.62             |
| 7392.00    | 89.600             | 1.000          | 4511.86     | 3131.37           | 3129.70       | 107.24       | 386697.01             | 631873.68              | 32°44'11.667"N | 104°42'06.509"W | 3.18             |
| 7424.00    | 90.600             | 0.900          | 4511.80     | 3163.37           | 3161.69       | 107.77       | 386697.54             | 631905.68              | 32°44'11.984"N | 104°42'06.504"W | 3.14             |
| 7456.00    | 90.500             | 0.500          | 4511.49     | 3195.36           | 3193.69       | 108.16       | 386697.93             | 631937.67              | 32°44'12.301"N | 104°42'06.501"W | 1.29             |
| 7487.00    | 90.400             | 1.100          | 4511.25     | 3226.36           | 3224.69       | 108.59       | 386698.36             | 631968.66              | 32°44'12.607"N | 104°42'06.497"W | 1.96             |
| 7519.00    | 90.200             | 0.600          | 4511.08     | 3258.36           | 3256.68       | 109.07       | 386698.84             | 632000.66              | 32°44'12.924"N | 104°42'06.493"W | 1.68             |
| 7551.00    | 90.000             | 0.900          | 4511.03     | 3290.36           | 3288.68       | 109.49       | 386699.26             | 632032.65              | 32°44'13.240"N | 104°42'06.489"W | 1.13             |
| 7582.00    | 90.600             | 0.800          | 4510.86     | 3321.36           | 3319.67       | 109.94       | 386699.72             | 632063.64              | 32°44'13.547"N | 104°42'06.485"W | 1.96             |
| 7614.00    | 90.600             | 0.600          | 4510.53     | 3353.35           | 3351.67       | 110.34       | 386700.11             | 632095.64              | 32°44'13.864"N | 104°42'06.482"W | 0.62             |
| 7646.00    | 90.500             | 0.700          | 4510.22     | 3385.35           | 3383.67       | 110.70       | 386700.47             | 632127.63              | 32°44'14.180"N | 104°42'06.479"W | 0.44             |
| 7678.00    | 90.200             | 0.800          | 4510.03     | 3417.35           | 3415.66       | 111.12       | 386700.89             | 632159.63              | 32°44'14.497"N | 104°42'06.475"W | 0.99             |
| 7709.00    | 89.900             | 0.200          | 4510.00     | 3448.34           | 3446.66       | 111.39       | 386701.16             | 632190.62              | 32°44'14.804"N | 104°42'06.473"W | 2.16             |
| 7741.00    | 89.500             | 359.600        | 4510.17     | 3480.33           | 3478.66       | 111.33       | 386701.10             | 632222.62              | 32°44'15.120"N | 104°42'06.475"W | 2.25             |
| 7773.00    | 89.800             | 359.900        | 4510.36     | 3512.32           | 3510.66       | 111.19       | 386700.96             | 632254.62              | 32°44'15.437"N | 104°42'06.478"W | 1.33             |
| 7804.00    | 89.300             | 0.200          | 4510.61     | 3543.31           | 3541.66       | 111.22       | 386700.99             | 632285.61              | 32°44'15.744"N | 104°42'06.479"W | 1.88             |
| 7836.00    | 89.600             | 0.400          | 4510.91     | 3575.30           | 3573.66       | 111.39       | 386701.16             | 632317.61              | 32°44'16.060"N | 104°42'06.478"W | 1.13             |
| 7869.00    | 89.700             | 1.100          | 4511.12     | 3608.30           | 3606.65       | 111.82       | 386701.59             | 632350.60              | 32°44'16.387"N | 104°42'06.475"W | 2.14             |
| 7900.00    | 89.700             | 1.700          | 4511.28     | 3639.30           | 3637.64       | 112.58       | 386702.35             | 632381.59              | 32°44'16.693"N | 104°42'06.467"W | 1.94             |
| 7932.00    | 89.700             | 1.700          | 4511.45     | 3671.30           | 3669.63       | 113.53       | 386703.30             | 632413.57              | 32°44'17.010"N | 104°42'06.457"W | 0.00             |
| 7964.00    | 89.900             | 1.900          | 4511.56     | 3703.30           | 3701.61       | 114.53       | 386704.30             | 632445.55              | 32°44'17.326"N | 104°42'06.447"W | 0.88             |
| 7994.00    | 90.100             | 2.300          | 4511.56     | 3733.29           | 3731.59       | 115.63       | 386705.40             | 632475.53              | 32°44'17.623"N | 104°42'06.435"W | 1.49             |
| 8027.00    | 91.100             | 2.700          | 4511.21     | 3766.28           | 3764.56       | 117.07       | 386706.84             | 632508.50              | 32°44'17.949"N | 104°42'06.420"W | 3.26             |
| 8059.00    | 91.300             | 2.700          | 4510.54     | 3798.27           | 3796.52       | 118.58       | 386708.35             | 632540.45              | 32°44'18.266"N | 104°42'06.403"W | 0.62             |
| 8091.00    | 91.300             | 2.400          | 4509.82     | 3830.25           | 3828.48       | 120.00       | 386709.77             | 632572.41              | 32°44'18.582"N | 104°42'06.388"W | 0.94             |
| 8123.00    | 91.200             | 3.400          | 4509.12     | 3862.23           | 3860.43       | 121.62       | 386711.39             | 632604.36              | 32°44'18.898"N | 104°42'06.370"W | 3.14             |
| 8173.00    | 91.200             | 3.400          | 4508.07     | 3912.19           | 3910.33       | 124.58       | 386714.35             | 632654.25              | 32°44'19.392"N | 104°42'06.338"W | 0.00             |

## Actual Wellpath Report

No. 1H AWP

Page 8 of 8

INTEQ

## REFERENCE WELLPATH IDENTIFICATION

|          |                                 |          |            |
|----------|---------------------------------|----------|------------|
| Operator | Mewbourne Oil Company           | Slot     | No. 1H SHL |
| Area     | Eddy County, NM                 | Well     | No. 1H     |
| Field    | (Four) Sec 21, T18S, R23E       | Wellbore | No. 1H AWB |
| Facility | Four Mile Draw 21 State Com #1H |          |            |

## TARGETS

| Name        | MD<br>[ft] | TVD<br>[ft] | North<br>[ft] | East<br>[ft] | Grid East<br>[srv ft] | Grid North<br>[srv ft] | Latitude       | Longitude       | Shape |
|-------------|------------|-------------|---------------|--------------|-----------------------|------------------------|----------------|-----------------|-------|
| No. 1H PBHL |            | 4509.00     | 3918.08       | 93.96        | 386683.73             | 632662.00              | 32°44'19.468"N | 104°42'06.696"W | point |

## WELLPATH COMPOSITION Ref Wellbore: No. 1H AWB Ref Wellpath: No. 1H AWP

| Start MD<br>[ft] | End MD<br>[ft] | Positional Uncertainty Model                | Log Name/Comment  | Wellbore   |
|------------------|----------------|---------------------------------------------|-------------------|------------|
| 0.00             | 3798.00        | Gyrodata standard - Drop gyro or Multi-shot | GYRO <100 - 3798> | No. 1H AWB |
| 3798.00          | 8123.00        | NaviTrak (Standard)                         | MWD <3838 - 8123> | No. 1H AWB |
| 8123.00          | 8173.00        | Blind Drilling (std)                        | Projection to bit | No. 1H AWB |

| Packers Plus                                                 |                                                                                                                                                                                                          | Do It Once<br>Do It Right                           |                         | Confidential Information - not to be disclosed<br>outside Mewbourne Oil Company |        | Final<br>Completion |  |
|--------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|-------------------------|---------------------------------------------------------------------------------|--------|---------------------|--|
| Prepared for<br><b>Mr. Mickey Young</b>                      |                                                                                                                                                                                                          | Company<br><b>Mewbourne Oil Company</b>             |                         | Date<br><b>22-Mar-10</b>                                                        |        |                     |  |
| Type of Installation<br><b>12-Stage 4-1/2" StackFRAC® HD</b> |                                                                                                                                                                                                          | Well Name<br><b>Four Mile Draw 21 State Com #1H</b> |                         | Location<br><b>Eddy County, NM</b>                                              |        |                     |  |
| Depth                                                        | Drawing                                                                                                                                                                                                  | Description                                         |                         | OD(in)                                                                          | ID(in) | Length              |  |
| <b>Page 1 of 2</b>                                           |                                                                                                                                                                                                          |                                                     |                         |                                                                                 |        |                     |  |
| KO<br>3,917                                                  |                                                                                                                                                                                                          |                                                     |                         |                                                                                 |        |                     |  |
| TVD<br>4,508                                                 |                                                                                                                                                                                                          |                                                     |                         |                                                                                 |        |                     |  |
| TOL<br>4,657<br>178BBLs                                      |                                                                                                                                                                                                          |                                                     |                         |                                                                                 |        |                     |  |
| Perma Plus<br>4,660                                          |                                                                                                                                                                                                          |                                                     |                         |                                                                                 |        |                     |  |
| SHOE<br>4,894                                                | <b>7" 23-32 ppt x 3.75" Lower Bore x 4.75" Upper Bore SF Liner Hanger Packer</b><br><b>PN: 107620-000001 (2 shear pins at 529 each: 1,058psi setting pressure)S#-EM0015328</b><br><b>SF Bottom Guide</b> |                                                     | 5.875"                  | 4.750                                                                           | 2.83   |                     |  |
|                                                              | <b>7" 26# P-110 LT&amp;C Casing</b><br><b>6-1/8" Open Hole Horizontal Well</b>                                                                                                                           |                                                     | 5.850"                  | 3.750                                                                           | 1.02   |                     |  |
|                                                              |                                                                                                                                                                                                          |                                                     |                         |                                                                                 | 3.03   |                     |  |
|                                                              | <b>4-1/2" 11.60# P-110 LTC LINER</b> JOINTS: 7                                                                                                                                                           |                                                     | 4 500"                  | 4 000                                                                           | 279.61 |                     |  |
| Stage 12<br>4,946<br>182BBLs                                 | <b>Packers Plus 4-1/2" Drillable FracPORT™ with 3.250" Seat for 3.50" High Pressure Ball</b><br><b>PN: 108482-000059 (5 shear pins at 315 psi each: 1,575 psi opening pressure)S#-EM0021261</b>          |                                                     | 5 630"                  | 3.250                                                                           | 2.65   |                     |  |
|                                                              | <b>4-1/2" 11.60# P-110 LTC LINER</b> JOINTS: 3                                                                                                                                                           |                                                     | 4 500"                  | 4 000                                                                           | 115.07 |                     |  |
|                                                              | <b>6' x 4-1/2" 11 6# P-110 LTC Pup Joint</b>                                                                                                                                                             |                                                     | 4 500"                  | 4 000                                                                           | 6.05   |                     |  |
|                                                              | <b>Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer</b><br><b>PN: 102188-000003 (6 shear pins at 324 psi each: 1,944 psi setting pressure)S#-EM0020553</b>           |                                                     | 5 750"                  | 3.750                                                                           | 5.23   |                     |  |
| RSII<br>5,070                                                | <b>3' x 4-1/2" 11 6# P-110 LTC Pup Joint</b>                                                                                                                                                             |                                                     | 4 500"                  | 4 000                                                                           | 3.00   |                     |  |
|                                                              | <b>4-1/2" 11.60# P-110 LTC LINER</b> JOINTS: 3                                                                                                                                                           |                                                     | 4 500"                  | 4 000                                                                           | 120.00 |                     |  |
| Stage 11<br>5,198<br>185BBLs                                 | <b>Packers Plus 4-1/2" Drillable FracPORT™ with 3.125" Seat for 3.250" High Pressure Ball</b><br><b>PN: 108482-000058 (5 shear pins at 315 psi each: 1,575 psi opening pressure)S#-EM0021253</b>         |                                                     | 5 630"                  | 3.125                                                                           | 2.65   |                     |  |
|                                                              | <b>4-1/2" 11.60# P-110 LTC LINER</b> JOINTS: 4                                                                                                                                                           |                                                     | 4 500"                  | 4 000                                                                           | 160.03 |                     |  |
|                                                              | <b>6' x 4-1/2" 11 6# P-110 LTC Pup Joint</b>                                                                                                                                                             |                                                     | 4 500"                  | 4 000                                                                           | 6.01   |                     |  |
|                                                              | <b>Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer</b><br><b>PN: 102188-000003 (6 shear pins at 324 psi each: 1,944 psi setting pressure)S#-EM0020566</b>           |                                                     | 5 750"                  | 3.750                                                                           | 5.25   |                     |  |
| RSII<br>5,366                                                | <b>3' x 4-1/2" 11 6# P-110 LTC Pup Joint</b>                                                                                                                                                             |                                                     | 4 500"                  | 4 000                                                                           | 3.05   |                     |  |
|                                                              | <b>4-1/2" 11.60# P-110 LTC LINER</b> JOINTS: 4                                                                                                                                                           |                                                     | 4 500"                  | 4 000                                                                           | 159.01 |                     |  |
| Stage 10<br>5,534<br>190BBLs                                 | <b>Packers Plus 4-1/2" Drillable FracPORT™ with 3.000" Seat for 3.125" High Pressure Ball</b><br><b>PN: 108482-000057 (5 shear pins at 315 psi each: 1,575 psi opening pressure)S#-EM0020663</b>         |                                                     | 5 630"                  | 3.000                                                                           | 2.65   |                     |  |
|                                                              | <b>4-1/2" 11.60# P-110 LTC LINER</b> JOINTS: 3                                                                                                                                                           |                                                     | 4 500"                  | 4 000                                                                           | 120.14 |                     |  |
|                                                              | <b>6' x 4-1/2" 11 6# P-110 LTC Pup Joint</b>                                                                                                                                                             |                                                     | 4 500"                  | 4 000                                                                           | 6.00   |                     |  |
|                                                              | <b>Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer</b><br><b>PN: 102188-000003 (6 shear pins at 324 psi each: 1,944 psi setting pressure)S#-EM0020551</b>           |                                                     | 5 750"                  | 3.750                                                                           | 5.24   |                     |  |
| RSII<br>5,663                                                | <b>3' x 4-1/2" 11 6# P-110 LTC Pup Joint</b>                                                                                                                                                             |                                                     | 4 500"                  | 4 000                                                                           | 3.05   |                     |  |
|                                                              | <b>4-1/2" 11.60# P-110 LTC LINER</b> JOINTS: 4                                                                                                                                                           |                                                     | 4 500"                  | 4 000                                                                           | 159.94 |                     |  |
| Stage 9<br>5,831<br>195BBLs                                  | <b>Packers Plus 4-1/2" Drillable FracPORT™ with 2.875" Seat for 3.000" High Pressure Ball</b><br><b>PN: 108482-000056 (5 shear pins at 315 psi each: 1,575 psi opening pressure)S#-EM0020458</b>         |                                                     | 5 630"                  | 2.875                                                                           | 2.65   |                     |  |
|                                                              | <b>4-1/2" 11.60# P-110 LTC LINER</b> JOINTS: 3                                                                                                                                                           |                                                     | 4 500"                  | 4 000                                                                           | 120.03 |                     |  |
|                                                              | <b>6' x 4-1/2" 11 6# P-110 LTC Pup Joint</b>                                                                                                                                                             |                                                     | 4 500"                  | 4 000                                                                           | 5.97   |                     |  |
|                                                              | <b>Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer</b><br><b>PN: 102188-000003 (6 shear pins at 324 psi each: 1,944 psi setting pressure)S#-EM0020552</b>           |                                                     | 5 750"                  | 3.750                                                                           | 5.24   |                     |  |
| RSII<br>5,959                                                | <b>3' x 4-1/2" 11 6# P-110 LTC Pup Joint</b>                                                                                                                                                             |                                                     | 4 500"                  | 4 000                                                                           | 3.00   |                     |  |
|                                                              | <b>4-1/2" 11.60# P-110 LTC LINER</b> JOINTS: 4                                                                                                                                                           |                                                     | 4 500"                  | 4 000                                                                           | 160.05 |                     |  |
| Stage 8<br>6,128<br>199BBLs                                  | <b>Packers Plus 4-1/2" Drillable FracPORT™ with 2.750" Seat for 2.875" High Pressure Ball</b><br><b>PN: 108482-000055 (5 shear pins at 315 psi each: 1,575 psi opening pressure)S#-EM0021234</b>         |                                                     | 5 630"                  | 2.750                                                                           | 2.65   |                     |  |
|                                                              | <b>4-1/2" 11.60# P-110 LTC LINER</b> JOINTS: 3                                                                                                                                                           |                                                     | 4 500"                  | 4 000                                                                           | 120.05 |                     |  |
|                                                              | <b>6' x 4-1/2" 11 6# P-110 LTC Pup Joint</b>                                                                                                                                                             |                                                     | 4 500"                  | 4 000                                                                           | 6.03   |                     |  |
|                                                              | <b>Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer</b><br><b>PN: 102188-000003 (6 shear pins at 324 psi each: 1,944 psi setting pressure)S#-EM0020525</b>           |                                                     | 5 750"                  | 3.750                                                                           | 5.25   |                     |  |
| RSII<br>6,256                                                | <b>3' x 4-1/2" 11 6# P-110 LTC Pup Joint</b>                                                                                                                                                             |                                                     | 4 500"                  | 4 000                                                                           | 3.01   |                     |  |
|                                                              | <b>4-1/2" 11.60# P-110 LTC LINER</b> JOINTS: 3                                                                                                                                                           |                                                     | 4 500"                  | 4 000                                                                           | 120.06 |                     |  |
| Service Center<br>Midland, TX                                |                                                                                                                                                                                                          | Telephone<br>432-563-8024                           | Contact<br>Keith Martin | Telephone<br>Chad Williams 405-255-3223                                         |        |                     |  |

|                                                              |                           |                                                                                                                                                                                    |                                         |                                    |                |        |
|--------------------------------------------------------------|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|------------------------------------|----------------|--------|
| Prepared for<br><b>Mr. Mickey Young</b>                      |                           | Company<br><b>Mewbourne Oil Company</b>                                                                                                                                            |                                         | Date<br><b>22-Mar-10</b>           |                |        |
| Type of Installation<br><b>12-Stage 4-1/2" StackFRAC® HD</b> |                           | Well Name<br><b>Four Mile Draw 21 State Com #1H</b>                                                                                                                                |                                         | Location<br><b>Eddy County, NM</b> |                |        |
| Depth                                                        | Drawing                   | Description                                                                                                                                                                        |                                         | OD(in)                             | ID(in) Length  |        |
| <b>Page 2 of 2</b>                                           |                           |                                                                                                                                                                                    |                                         |                                    |                |        |
| <b>Stage 7</b><br>6,385<br>203BBLs                           |                           | Packers Plus 4-1/2" Drillable FracPORT™ with 2.625" Seat for 2.750" High Pressure Ball<br>PN: 108482-000054 (5 shear pins at 315 psi each; 1,575 psi opening pressure)S#-EM0020645 |                                         | 5 630"                             | 2.625<br>3.720 | 2 65   |
|                                                              |                           | 4-1/2" 11.60# P-110 LTC LINER JOINTS: 4                                                                                                                                            |                                         | 4 500"                             | 4 000          | 160 01 |
|                                                              |                           | 6' x 4-1/2" 11 6# P-110 LTC Pup Joint                                                                                                                                              |                                         | 4 500"                             | 4 000          | 5 96   |
| <b>RSII</b><br>6,563                                         |                           | Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer<br>PN: 102188-000003 (6 shear pins at 324 psi each; 1,944 psi setting pressure)S#-EM0020526   |                                         | 5 750"                             | 3.750          | 5 24   |
|                                                              |                           | 3' x 4-1/2" 11 6# P-110 LTC Pup Joint                                                                                                                                              |                                         | 4 500"                             | 4 000          | 3 01   |
|                                                              |                           | 4-1/2" 11.60# P-110 LTC LINER JOINTS: 3                                                                                                                                            |                                         | 4 500"                             | 4 000          | 119 62 |
| <b>Stage 6</b><br>6,681<br>212BBLs                           |                           | Packers Plus 4-1/2" Drillable FracPORT™ with 2.500" Seat for 2.625" High Pressure Ball<br>PN: 108482-000053 (5 shear pins at 315 psi each; 1,575 psi opening pressure)S#-EM0021221 |                                         | 5 630"                             | 2.500<br>3.720 | 2 65   |
|                                                              |                           | 4-1/2" 11.60# P-110 LTC LINER JOINTS: 4                                                                                                                                            |                                         | 4 500"                             | 4 000          | 159 89 |
|                                                              |                           | 6' x 4-1/2" 11 6# P-110 LTC Pup Joint                                                                                                                                              |                                         | 4 500"                             | 4 000          | 6 01   |
| <b>RSII</b><br>6,850                                         |                           | Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer<br>PN: 102188-000003 (6 shear pins at 324 psi each; 1,944 psi setting pressure)S#-EM0020527   |                                         | 5 750"                             | 3.750          | 5 24   |
|                                                              |                           | 3' x 4-1/2" 11 6# P-110 LTC Pup Joint                                                                                                                                              |                                         | 4 500"                             | 4 000          | 3 06   |
|                                                              |                           | 4-1/2" 11.60# P-110 LTC LINER JOINTS: 3                                                                                                                                            |                                         | 4 500"                             | 4 000          | 120 02 |
| <b>Stage 5</b><br>6,978<br>216BBLs                           |                           | Packers Plus 4-1/2" Drillable FracPORT™ with 2.375" Seat for 2.500" High Pressure Ball<br>PN: 108482-000052 (5 shear pins at 315 psi each; 1,575 psi opening pressure)S#-EM0020633 |                                         | 5 630"                             | 2.375<br>3.720 | 2 65   |
|                                                              |                           | 4-1/2" 11.60# P-110 LTC LINER JOINTS: 4 and Short Joint                                                                                                                            |                                         | 4 500"                             | 4 000          | 181 82 |
|                                                              |                           | 6' x 4-1/2" 11 6# P-110 LTC Pup Joint                                                                                                                                              |                                         | 4 500"                             | 4 000          | 5 98   |
| <b>RSII</b><br>7,169                                         |                           | Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer<br>PN: 102188-000003 (6 shear pins at 324 psi each; 1,944 psi setting pressure)S#-EM0020528   |                                         | 5 750"                             | 3.750          | 5 24   |
|                                                              |                           | 3' x 4-1/2" 11 6# P-110 LTC Pup Joint                                                                                                                                              |                                         | 4 500"                             | 4 000          | 3 06   |
|                                                              |                           | 4-1/2" 11.60# P-110 LTC LINER JOINTS: 4                                                                                                                                            |                                         | 4 500"                             | 4 000          | 159 98 |
| <b>Stage 4</b><br>7,337<br>221BBLs                           |                           | Packers Plus 4-1/2" Drillable FracPORT™ with 2.250" Seat for 2.375" High Pressure Ball<br>PN: 108482-000051 (5 shear pins at 315 psi each; 1,575 psi opening pressure)S#-EM0020624 |                                         | 5 630"                             | 2.250<br>3.720 | 2 65   |
|                                                              |                           | 4-1/2" 11.60# P-110 LTC LINER JOINTS: 3                                                                                                                                            |                                         | 4 500"                             | 4 000          | 119 94 |
|                                                              |                           | 6' x 4-1/2" 11 6# P-110 LTC Pup Joint                                                                                                                                              |                                         | 4 500"                             | 4 000          | 6 01   |
| <b>RSII</b><br>7,465                                         |                           | Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer<br>PN: 102188-000003 (6 shear pins at 324 psi each; 1,944 psi setting pressure)S#-EM0020530   |                                         | 5 750"                             | 3.750          | 5 24   |
|                                                              |                           | 3' x 4-1/2" 11 6# 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          | 120 02 |
| <b>Stage 3</b><br>7,594<br>225BBLs                           |                           | Packers Plus 4-1/2" Drillable FracPORT™ with 2.125" Seat for 2.250" High Pressure Ball<br>PN: 108482-000050 (5 shear pins at 315 psi each; 1,575 psi opening pressure)S#-EM0020619 |                                         | 5 630"                             | 2.125<br>3.720 | 2 65   |
|                                                              |                           | 4-1/2" 11.60# P-110 LTC LINER JOINTS: 3                                                                                                                                            |                                         | 4 500"                             | 4 000          | 120 01 |
|                                                              |                           | 6' x 4-1/2" 11 6# P-110 LTC Pup Joint                                                                                                                                              |                                         | 4 500"                             | 4 000          | 6 02   |
| <b>RSII</b><br>7,723                                         |                           | Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer<br>PN: 102188-000003 (6 shear pins at 324 psi each; 1,944 psi setting pressure)S#-EM0020565   |                                         | 5 750"                             | 3.750          | 5 24   |
|                                                              |                           | 3' x 4-1/2" 11 6# P-110 LTC Pup Joint                                                                                                                                              |                                         | 4 500"                             | 4 000          | 3 04   |
|                                                              |                           | 4-1/2" 11.60# P-110 LTC LINER JOINTS: 3                                                                                                                                            |                                         | 4 500"                             | 4 000          | 120 00 |
| <b>Stage 2</b><br>7,851<br>229BBLs                           |                           | Packers Plus 4-1/2" Drillable FracPORT™ with 2.000" Seat for 2.125" High Pressure Ball<br>PN: 108482-000049 (5 shear pins at 315 psi each; 1,575 psi opening pressure)S#-EM0021201 |                                         | 5 630"                             | 2.000<br>3.720 | 2 65   |
|                                                              |                           | 4-1/2" 11 60# P-110 LTC LINER JOINTS: 3                                                                                                                                            |                                         | 4 500"                             | 4 000          | 119 55 |
|                                                              |                           | 6' x 4-1/2" 11 6# P-110 LTC Pup Joint                                                                                                                                              |                                         | 4 500"                             | 4 000          | 6 06   |
| <b>RSII</b><br>7,979                                         |                           | Packers Plus 7" x 4-1/2" RockSEAL® II 10K Centralized Hydraulic Set Open Hole Packer<br>PN: 102188-000003 (6 shear pins at 324 psi each; 1,944 psi setting pressure)S#-EM0020510   |                                         | 5 750"                             | 3.750          | 5 25   |
|                                                              |                           | 3' x 4-1/2" 11 6# P-110 LTC Pup Joint                                                                                                                                              |                                         | 4 500"                             | 4 000          | 3 05   |
| <b>Stage 1</b><br>8,127<br>233BBLs                           |                           | 4-1/2" 11.60# P-110 LTC LINER JOINTS: 3 and Short Joint                                                                                                                            |                                         | 4 500"                             | 4 000          | 133 59 |
|                                                              |                           | 6' x 4-1/2" 11 6# P-110 LTC Pup Joint                                                                                                                                              |                                         | 4 500"                             | 4 000          | 6 01   |
|                                                              |                           | Packers Plus 4-1/2" Dual Hydraulic FracPORT™ Centralized PN: 105900-000002<br>(10 pins at 391 psi each; 3,910 psi Upper ) / ( 7 pins at 630 psi each; 4,410 psi Lower )            |                                         | 5 630"                             | 3.750          | 4 33   |
|                                                              |                           | 3' x 4-1/2" 11 6# P-110 LTC Pup Joint S#-EM0019541                                                                                                                                 |                                         | 4 500"                             | 4 000          | 3 06   |
| <b>Toe Sub</b><br>8,140'                                     |                           | 6' x 4-1/2" 11 6# P-110 LTC Pup Joint                                                                                                                                              |                                         | 4 500"                             | 4 000          | 6 00   |
|                                                              |                           | Packers Plus 4-1/2" Toe Circulating Sub w/ 1.00" Seat for 1.25" High Pressure Ball<br>PN: 103039-000011 ( 3 pins at 366 psi each; 1,098 psi closing pressure)S#-EM0021356          |                                         | 5 500"                             | NA             | 2 73   |
|                                                              |                           | 4-1/2" LTC Single Valve Float Collar PN: 104733                                                                                                                                    |                                         | 5 000"                             | NA             | 1 32   |
|                                                              |                           | 6' x 4-1/2" 11 6# P-110 LTC Pup Joint                                                                                                                                              |                                         | 4 500"                             | 4 000          | 6 00   |
| <b>MD</b><br>8,173'                                          |                           | 4-1/2" LTC Single Valve Float Collar PN: 104733                                                                                                                                    |                                         | 5 000"                             | NA             | 1 34   |
|                                                              |                           | 4-1/2" LTC Guide Shoe PN: 104818-000002                                                                                                                                            |                                         | 5 500"                             | 2.250          | 0 75   |
| Service Center<br>Midland, TX                                | Telephone<br>432-563-8024 | Contact<br>Keith Martin                                                                                                                                                            | Telephone<br>Chad Williams 405-255-3223 |                                    |                |        |