

# McElvain Oil & Gas

Project: Trego County, KS (NAD 83)

Site: Faulkner 5

Well: #3H

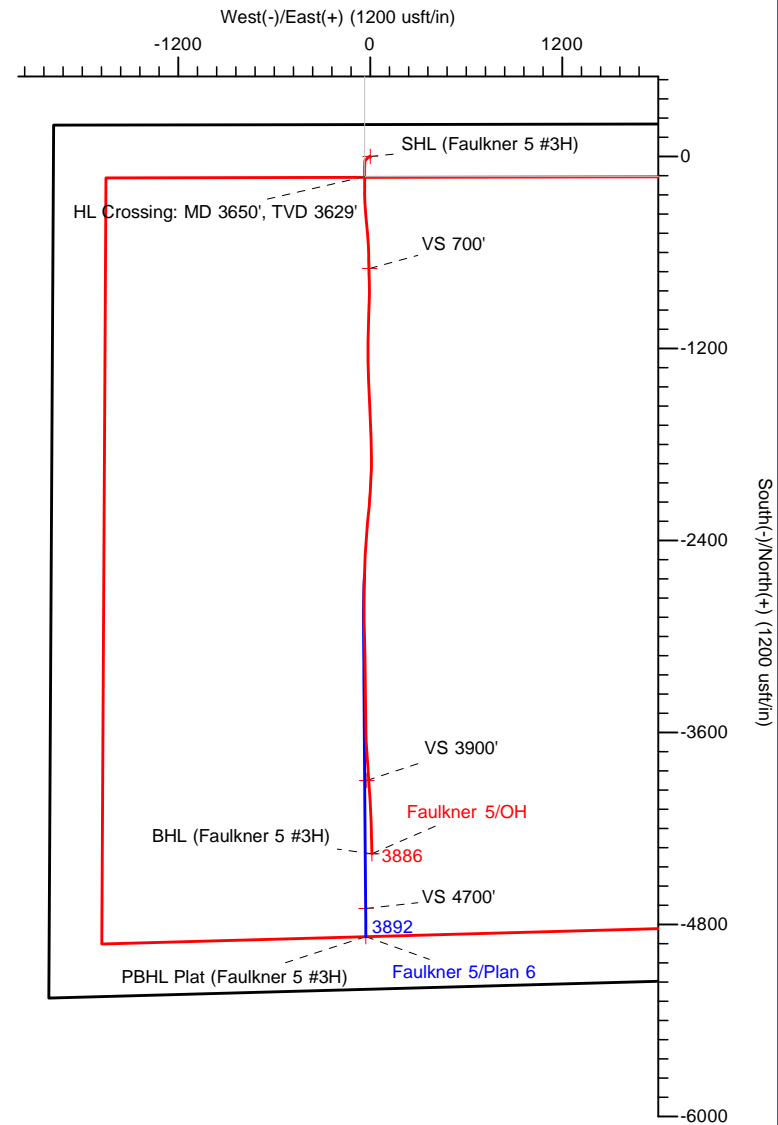
Wellbore: OH

Design: OH



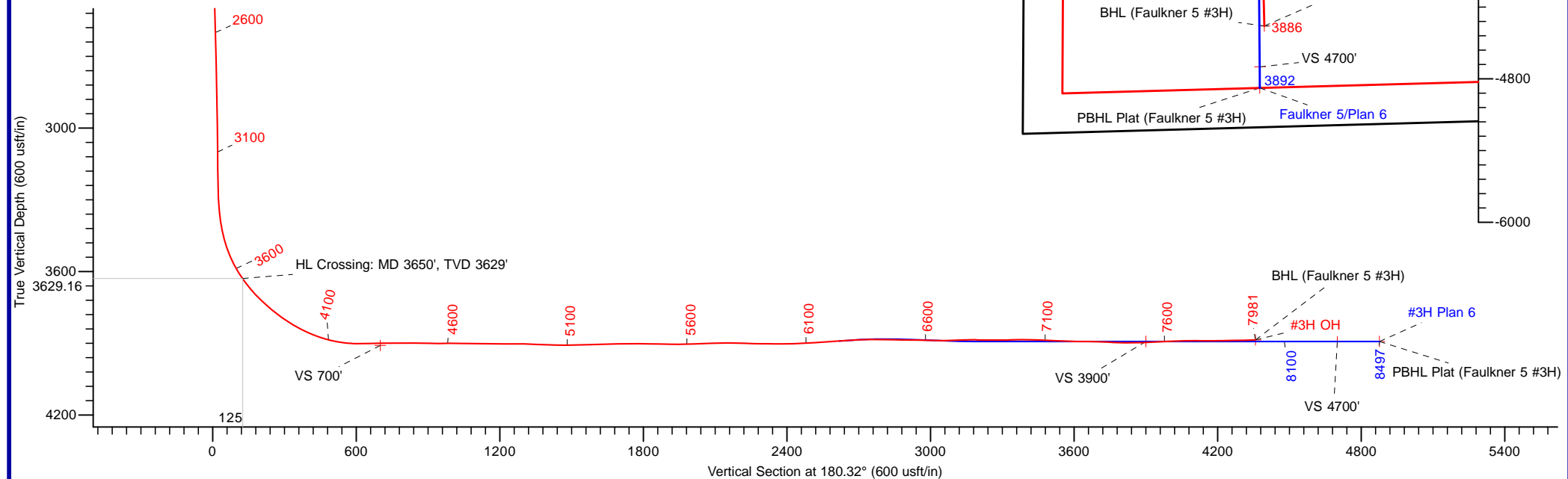
Azimuths to True North  
Magnetic North: 5.61°

Magnetic Field  
Strength: 52719.2snT  
Dip Angle: 66.67°  
Date: 6/10/2013  
Model: IGRF2010



## DESIGN TARGET DETAILS

| Name                       | TVD     | +N/-S    | +E/-W  | Northing  | Easting   | Latitude        | Longitude        |
|----------------------------|---------|----------|--------|-----------|-----------|-----------------|------------------|
| SHL (Faulkner 5 #3H)       | 0.00    | 0.35     | -0.24  | 295757.42 | 804933.44 | 39° 7' 53.860 N | 99° 47' 19.780 W |
| BHL (Faulkner 5 #3H)       | 3885.91 | -4358.01 | 10.49  | 291399.69 | 804858.08 | 39° 7' 10.781 N | 99° 47' 19.644 W |
| PBHL Plat (Faulkner 5 #3H) | 3892.00 | -4875.77 | -27.19 | 290882.78 | 804810.19 | 39° 7' 5.663 N  | 99° 47' 20.122 W |
| VS 3900'                   | 3892.00 | -3899.94 | -21.74 | 291858.32 | 804834.90 | 39° 7' 15.309 N | 99° 47' 20.053 W |
| VS 4700'                   | 3894.00 | -4699.93 | -26.20 | 291058.57 | 804814.64 | 39° 7' 7.401 N  | 99° 47' 20.109 W |
| VS 700'                    | 3909.00 | -699.99  | -3.90  | 295057.29 | 804915.95 | 39° 7' 46.938 N | 99° 47' 19.826 W |



LEAM DRILLING SYSTEMS LLC  
2010 East Davis, Conroe, Texas 77301  
Phone: 936/756-7577, Fax: 936/756-7595

Design: OH (#3H/OH)  
Faulkner 5  
Created By: Chris Burckle  
Date: 16:40, July 16 2013  
Approved: \_\_\_\_\_  
Date: \_\_\_\_\_

# LEAM Drilling Systems LLC

## Survey Report

|                  |                           |                                     |  |
|------------------|---------------------------|-------------------------------------|--|
| <b>Company:</b>  | McElvain Oil & Gas        | <b>Local Co-ordinate Reference:</b> | Well #3H   |
| <b>Project:</b>  | Trego County, KS (NAD 83) | <b>TVD Reference:</b>               | GE 2282' + KB 13' @ 2295.00usft (Original Well Elev) |
| <b>Site:</b>     | Faulkner 5                | <b>MD Reference:</b>                | GE 2282' + KB 13' @ 2295.00usft (Original Well Elev) |
| <b>Well:</b>     | #3H                       | <b>North Reference:</b>             | True   |
| <b>Wellbore:</b> | OH                        | <b>Survey Calculation Method:</b>   | Minimum Curvature                                    |
| <b>Design:</b>   | OH                        | <b>Database:</b>                    | EDM 5000.1 Single User Db                            |

|                    |                           |                      |                |
|--------------------|---------------------------|----------------------|----------------|
| <b>Project</b>     | Trego County, KS (NAD 83) |                      |                |
| <b>Map System:</b> | US State Plane 1983       | <b>System Datum:</b> | Mean Sea Level |
| <b>Geo Datum:</b>  | North American Datum 1983 |                      |                |
| <b>Map Zone:</b>   | Kansas Northern Zone      |                      |                |

|                              |                  |                     |                  |                          |                  |
|------------------------------|------------------|---------------------|------------------|--------------------------|------------------|
| <b>Site</b>                  | Faulkner 5       |                     |                  |                          |                  |
| <b>Site Position:</b>        | <b>Northing:</b> | 295,757.06 usft     | <b>Latitude:</b> | 39° 7' 53.857 N          |                  |
| <b>From:</b>                 | Map              | <b>Easting:</b>     | 804,933.67 usft  | <b>Longitude:</b>        | 99° 47' 19.777 W |
| <b>Position Uncertainty:</b> | 0.00 usft        | <b>Slot Radius:</b> | 13-3/16 "        | <b>Grid Convergence:</b> | -1.13 °          |

|                             |              |                            |                  |                      |                   |                  |
|-----------------------------|--------------|----------------------------|------------------|----------------------|-------------------|------------------|
| <b>Well</b>                 | #3H          |                            |                  |                      |                   |                  |
| <b>Well Position</b>        | <b>+N/-S</b> | 0.00 usft                  | <b>Northing:</b> | 295,757.06 usft      | <b>Latitude:</b>  | 39° 7' 53.857 N  |
|                             | <b>+E/-W</b> | 0.00 usft                  | <b>Easting:</b>  | 804,933.67 usft      | <b>Longitude:</b> | 99° 47' 19.777 W |
| <b>Position Uncertainty</b> | 0.00 usft    | <b>Wellhead Elevation:</b> | usft             | <b>Ground Level:</b> | 2,282.00 usft     |                  |

|                  |                   |                    |                    |                  |                       |
|------------------|-------------------|--------------------|--------------------|------------------|-----------------------|
| <b>Wellbore</b>  | OH                |                    |                    |                  |                       |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination</b> | <b>Dip Angle</b> | <b>Field Strength</b> |
|                  |                   |                    | (°)                | (°)              | (nT)                  |
|                  | IGRF2010          | 6/10/2013          | 5.61               | 66.67            | 52,719                |

|                          |                         |               |              |                      |      |
|--------------------------|-------------------------|---------------|--------------|----------------------|------|
| <b>Design</b>            | OH                      |               |              |                      |      |
| <b>Audit Notes:</b>      |                         |               |              |                      |      |
| <b>Version:</b>          | 1.0                     | <b>Phase:</b> | ACTUAL       | <b>Tie On Depth:</b> | 0.00 |
| <b>Vertical Section:</b> | <b>Depth From (TVD)</b> | <b>+N/-S</b>  | <b>+E/-W</b> | <b>Direction</b>     |      |
|                          | (usft)                  | (usft)        | (usft)       | (°)                  |      |
|                          | 0.00                    | 0.00          | 0.00         | 180.32               |      |

|                       |             |                          |                  |                    |  |
|-----------------------|-------------|--------------------------|------------------|--------------------|--|
| <b>Survey Program</b> | <b>Date</b> |                          | 7/16/2013        |                    |  |
| <b>From</b>           | <b>To</b>   | <b>Survey (Wellbore)</b> | <b>Tool Name</b> | <b>Description</b> |  |
| (usft)                | (usft)      |                          |                  |                    |  |
| 366.00                | 7,931.00    | Survey #1 (OH)           | LEAM MWD         | MWD - Standard     |  |
| 7,981.00              | 7,981.00    | Survey #2 (OH)           | Project          | Projection         |  |

|                 |                    |                |                 |               |               |                 |                    |                    |                    |      |
|-----------------|--------------------|----------------|-----------------|---------------|---------------|-----------------|--------------------|--------------------|--------------------|------|
| <b>Survey</b>   |                    |                |                 |               |               |                 |                    |                    |                    |      |
| <b>Measured</b> | <b>Inclination</b> | <b>Azimuth</b> | <b>Vertical</b> | <b>+N/-S</b>  | <b>+E/-W</b>  | <b>Vertical</b> | <b>Dogleg</b>      | <b>Build</b>       | <b>Turn</b>        |      |
| <b>Depth</b>    | (°)                | (°)            | <b>Depth</b>    | <b>(usft)</b> | <b>(usft)</b> | <b>Section</b>  | <b>Rate</b>        | <b>Rate</b>        | <b>Rate</b>        |      |
| <b>(usft)</b>   |                    |                | <b>(usft)</b>   |               |               | <b>(usft)</b>   | <b>(°/100usft)</b> | <b>(°/100usft)</b> | <b>(°/100usft)</b> |      |
| 0.00            | 0.00               | 0.00           | 0.00            | 0.00          | 0.00          | 0.00            | 0.00               | 0.00               | 0.00               | 0.00 |
| 366.00          | 0.40               | 145.10         | 366.00          | -1.05         | 0.73          | 1.04            | 0.11               | 0.11               | 0.00               |      |
| 552.00          | 0.50               | 159.90         | 551.99          | -2.34         | 1.38          | 2.33            | 0.08               | 0.05               | 7.96               |      |
| 861.00          | 0.30               | 228.70         | 860.99          | -4.14         | 1.24          | 4.14            | 0.16               | -0.06              | 22.27              |      |
| 1,121.00        | 0.20               | 95.60          | 1,120.98        | -4.64         | 1.18          | 4.63            | 0.18               | -0.04              | -51.19             |      |
| 1,387.00        | 0.40               | 337.90         | 1,386.98        | -3.82         | 1.29          | 3.81            | 0.20               | 0.08               | -44.25             |      |
| 1,656.00        | 1.00               | 299.80         | 1,655.96        | -1.78         | -1.10         | 1.79            | 0.27               | 0.22               | -14.16             |      |
| 1,923.00        | 1.10               | 266.70         | 1,922.92        | -0.77         | -5.68         | 0.81            | 0.23               | 0.04               | -12.40             |      |

# LEAM Drilling Systems LLC

## Survey Report

|                  |                           |                                     |  |
|------------------|---------------------------|-------------------------------------|--|
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| <b>Project:</b>  | Trego County, KS (NAD 83) | <b>TVD Reference:</b>               | GE 2282' + KB 13' @ 2295.00usft (Original Well Elev) |
| <b>Site:</b>     | Faulkner 5                | <b>MD Reference:</b>                | GE 2282' + KB 13' @ 2295.00usft (Original Well Elev) |
| <b>Well:</b>     | #3H                       | <b>North Reference:</b>             | True   |
| <b>Wellbore:</b> | OH                        | <b>Survey Calculation Method:</b>   | Minimum Curvature                                    |
| <b>Design:</b>   | OH                        | <b>Database:</b>                    | EDM 5000.1 Single User Db                            |

| Survey                                  |                 |             |                       |              |              |                         |                         |                        |                       |  |
|---|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|--|
| Measured Depth (usft)                   | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |  |
| 2,198.00                                | 1.20            | 231.60      | 2,197.87              | -2.71        | -10.57       | 2.77                    | 0.25                    | 0.04                   | -12.76                |  |
| 2,459.00                                | 2.00            | 215.80      | 2,458.76              | -8.11        | -15.38       | 8.19                    | 0.35                    | 0.31                   | -6.05                 |  |
| 2,729.00                                | 1.50            | 223.40      | 2,728.64              | -14.50       | -20.56       | 14.61                   | 0.20                    | -0.19                  | 2.81                  |  |
| 2,995.00                                | 1.50            | 235.70      | 2,994.55              | -18.99       | -25.83       | 19.13                   | 0.12                    | 0.00                   | 4.62                  |  |
| 3,085.00                                | 1.40            | 229.00      | 3,084.52              | -20.37       | -27.63       | 20.53                   | 0.22                    | -0.11                  | -7.44                 |  |
| 3,246.00                                | 1.10            | 236.90      | 3,245.48              | -22.51       | -30.41       | 22.68                   | 0.21                    | -0.19                  | 4.91                  |  |
| 3,288.00                                | 2.50            | 210.70      | 3,287.46              | -23.51       | -31.22       | 23.69                   | 3.78                    | 3.33                   | -62.38                |  |
| 3,330.00                                | 4.50            | 196.30      | 3,329.38              | -25.88       | -32.15       | 26.06                   | 5.17                    | 4.76                   | -34.29                |  |
| 3,371.00                                | 7.30            | 185.70      | 3,370.16              | -30.02       | -32.86       | 30.20                   | 7.30                    | 6.83                   | -25.85                |  |
| 3,416.00                                | 10.40           | 184.70      | 3,414.62              | -36.91       | -33.48       | 37.10                   | 6.90                    | 6.89                   | -2.22                 |  |
| 3,460.00                                | 13.90           | 185.40      | 3,457.63              | -46.14       | -34.30       | 46.33                   | 7.96                    | 7.95                   | 1.59                  |  |
| 3,505.00                                | 18.50           | 179.80      | 3,500.83              | -58.66       | -34.78       | 58.86                   | 10.78                   | 10.22                  | -12.44                |  |
| 3,550.00                                | 24.20           | 179.50      | 3,542.72              | -75.04       | -34.68       | 75.23                   | 12.67                   | 12.67                  | -0.67                 |  |
| 3,594.00                                | 29.60           | 179.10      | 3,581.95              | -94.94       | -34.43       | 95.13                   | 12.28                   | 12.27                  | -0.91                 |  |
| 3,639.00                                | 34.30           | 180.00      | 3,620.12              | -118.74      | -34.25       | 118.93                  | 10.50                   | 10.44                  | 2.00                  |  |
| 3,650.00                                | 35.20           | 180.16      | 3,629.16              | -125.01      | -34.26       | 125.20                  | 8.26                    | 8.22                   | 1.42                  |  |
| <b>HL Crossing: MD 3650', TVD 3629'</b> |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 3,684.00                                | 38.00           | 180.60      | 3,656.45              | -145.28      | -34.40       | 145.47                  | 8.26                    | 8.22                   | 1.30                  |  |
| 3,729.00                                | 41.70           | 180.20      | 3,690.99              | -174.11      | -34.60       | 174.30                  | 8.24                    | 8.22                   | -0.89                 |  |
| 3,774.00                                | 45.90           | 180.40      | 3,723.47              | -205.25      | -34.76       | 205.44                  | 9.34                    | 9.33                   | 0.44                  |  |
| 3,819.00                                | 50.00           | 179.70      | 3,753.60              | -238.66      | -34.78       | 238.85                  | 9.18                    | 9.11                   | -1.56                 |  |
| 3,864.00                                | 53.80           | 178.10      | 3,781.36              | -274.06      | -34.09       | 274.24                  | 8.90                    | 8.44                   | -3.56                 |  |
| 3,909.00                                | 57.50           | 175.70      | 3,806.75              | -311.14      | -32.07       | 311.32                  | 9.33                    | 8.22                   | -5.33                 |  |
| 3,954.00                                | 60.20           | 175.00      | 3,830.03              | -349.52      | -28.94       | 349.68                  | 6.15                    | 6.00                   | -1.56                 |  |
| 3,999.00                                | 64.00           | 174.00      | 3,851.08              | -389.10      | -25.12       | 389.24                  | 8.67                    | 8.44                   | -2.22                 |  |
| 4,043.00                                | 69.70           | 173.80      | 3,868.37              | -429.31      | -20.82       | 429.42                  | 12.96                   | 12.95                  | -0.45                 |  |
| 4,088.00                                | 74.10           | 175.90      | 3,882.35              | -471.90      | -17.00       | 471.99                  | 10.74                   | 9.78                   | 4.67                  |  |
| 4,133.00                                | 79.10           | 176.10      | 3,892.78              | -515.56      | -13.94       | 515.63                  | 11.12                   | 11.11                  | 0.44                  |  |
| 4,178.00                                | 84.70           | 178.00      | 3,899.11              | -560.03      | -11.66       | 560.08                  | 13.13                   | 12.44                  | 4.22                  |  |
| 4,219.00                                | 89.60           | 178.10      | 3,901.15              | -600.94      | -10.26       | 600.99                  | 11.95                   | 11.95                  | 0.24                  |  |
| 4,264.00                                | 91.00           | 178.60      | 3,900.92              | -645.92      | -8.97        | 645.96                  | 3.30                    | 3.11                   | 1.11                  |  |
| 4,309.00                                | 90.80           | 178.50      | 3,900.21              | -690.90      | -7.83        | 690.93                  | 0.50                    | -0.44                  | -0.22                 |  |
| 4,353.00                                | 90.80           | 178.50      | 3,899.60              | -734.88      | -6.68        | 734.91                  | 0.00                    | 0.00                   | 0.00                  |  |
| 4,398.00                                | 90.70           | 178.50      | 3,899.01              | -779.86      | -5.50        | 779.88                  | 0.22                    | -0.22                  | 0.00                  |  |
| 4,476.00                                | 88.40           | 181.00      | 3,899.62              | -857.85      | -5.16        | 857.86                  | 4.35                    | -2.95                  | 3.21                  |  |
| 4,521.00                                | 89.70           | 181.40      | 3,900.36              | -902.83      | -6.10        | 902.85                  | 3.02                    | 2.89                   | 0.89                  |  |
| 4,563.00                                | 90.10           | 181.70      | 3,900.44              | -944.81      | -7.24        | 944.84                  | 1.19                    | 0.95                   | 0.71                  |  |
| 4,606.00                                | 90.40           | 182.50      | 3,900.25              | -987.78      | -8.81        | 987.82                  | 1.99                    | 0.70                   | 1.86                  |  |
| 4,649.00                                | 89.50           | 181.90      | 3,900.29              | -1,030.75    | -10.46       | 1,030.79                | 2.52                    | -2.09                  | -1.40                 |  |
| 4,694.00                                | 88.90           | 181.10      | 3,900.92              | -1,075.73    | -11.64       | 1,075.78                | 2.22                    | -1.33                  | -1.78                 |  |
| 4,739.00                                | 89.00           | 181.00      | 3,901.74              | -1,120.72    | -12.47       | 1,120.77                | 0.31                    | 0.22                   | -0.22                 |  |
| 4,784.00                                | 89.00           | 180.60      | 3,902.53              | -1,165.71    | -13.10       | 1,165.76                | 0.89                    | 0.00                   | -0.89                 |  |

# LEAM Drilling Systems LLC

## Survey Report

|                  |                           |                                     |  |
|------------------|---------------------------|-------------------------------------|--|
| <b>Company:</b>  | McElvain Oil & Gas        | <b>Local Co-ordinate Reference:</b> | Well #3H   |
| <b>Project:</b>  | Trego County, KS (NAD 83) | <b>TVD Reference:</b>               | GE 2282' + KB 13' @ 2295.00usft (Original Well Elev) |
| <b>Site:</b>     | Faulkner 5                | <b>MD Reference:</b>                | GE 2282' + KB 13' @ 2295.00usft (Original Well Elev) |
| <b>Well:</b>     | #3H                       | <b>North Reference:</b>             | True   |
| <b>Wellbore:</b> | OH                        | <b>Survey Calculation Method:</b>   | Minimum Curvature                                    |
| <b>Design:</b>   | OH                        | <b>Database:</b>                    | EDM 5000.1 Single User Db                            |

| Survey                |                 |             |                       |              |              |                         |                         |                        |                       |  |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|--|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |  |
| 4,829.00              | 90.50           | 180.30      | 3,902.72              | -1,210.70    | -13.45       | 1,210.76                | 3.40                    | 3.33                   | -0.67                 |  |
| 4,874.00              | 90.70           | 179.90      | 3,902.25              | -1,255.70    | -13.53       | 1,255.76                | 0.99                    | 0.44                   | -0.89                 |  |
| 4,919.00              | 88.10           | 178.60      | 3,902.72              | -1,300.69    | -12.94       | 1,300.74                | 6.46                    | -5.78                  | -2.89                 |  |
| 4,964.00              | 87.70           | 178.00      | 3,904.37              | -1,345.64    | -11.60       | 1,345.68                | 1.60                    | -0.89                  | -1.33                 |  |
| 5,009.00              | 88.20           | 178.10      | 3,905.98              | -1,390.58    | -10.07       | 1,390.62                | 1.13                    | 1.11                   | 0.22                  |  |
| 5,054.00              | 88.90           | 177.60      | 3,907.12              | -1,435.54    | -8.39        | 1,435.56                | 1.91                    | 1.56                   | -1.11                 |  |
| 5,097.00              | 89.30           | 177.00      | 3,907.80              | -1,478.48    | -6.36        | 1,478.50                | 1.68                    | 0.93                   | -1.40                 |  |
| 5,142.00              | 92.60           | 177.60      | 3,907.05              | -1,523.42    | -4.24        | 1,523.42                | 7.45                    | 7.33                   | 1.33                  |  |
| 5,187.00              | 92.00           | 177.60      | 3,905.24              | -1,568.35    | -2.36        | 1,568.33                | 1.33                    | -1.33                  | 0.00                  |  |
| 5,229.00              | 91.20           | 177.60      | 3,904.07              | -1,610.29    | -0.60        | 1,610.27                | 1.90                    | -1.90                  | 0.00                  |  |
| 5,272.00              | 90.60           | 177.70      | 3,903.40              | -1,653.25    | 1.16         | 1,653.22                | 1.41                    | -1.40                  | 0.23                  |  |
| 5,315.00              | 90.90           | 177.50      | 3,902.83              | -1,696.21    | 2.96         | 1,696.17                | 0.84                    | 0.70                   | -0.47                 |  |
| 5,358.00              | 91.50           | 177.90      | 3,901.93              | -1,739.16    | 4.69         | 1,739.11                | 1.68                    | 1.40                   | 0.93                  |  |
| 5,400.00              | 89.60           | 178.70      | 3,901.53              | -1,781.14    | 5.93         | 1,781.08                | 4.91                    | -4.52                  | 1.90                  |  |
| 5,443.00              | 88.60           | 178.80      | 3,902.20              | -1,824.13    | 6.87         | 1,824.06                | 2.34                    | -2.33                  | 0.23                  |  |
| 5,488.00              | 89.50           | 179.30      | 3,902.95              | -1,869.11    | 7.62         | 1,869.04                | 2.29                    | 2.00                   | 1.11                  |  |
| 5,533.00              | 89.10           | 179.80      | 3,903.50              | -1,914.11    | 7.97         | 1,914.03                | 1.42                    | -0.89                  | 1.11                  |  |
| 5,578.00              | 90.20           | 181.80      | 3,903.78              | -1,959.10    | 7.34         | 1,959.03                | 5.07                    | 2.44                   | 4.44                  |  |
| 5,623.00              | 92.00           | 183.50      | 3,902.91              | -2,004.04    | 5.26         | 2,003.98                | 5.50                    | 4.00                   | 3.78                  |  |
| 5,668.00              | 92.50           | 183.30      | 3,901.14              | -2,048.93    | 2.60         | 2,048.88                | 1.20                    | 1.11                   | -0.44                 |  |
| 5,713.00              | 91.60           | 183.50      | 3,899.53              | -2,093.82    | -0.07        | 2,093.78                | 2.05                    | -2.00                  | 0.44                  |  |
| 5,758.00              | 90.70           | 183.70      | 3,898.63              | -2,138.72    | -2.90        | 2,138.70                | 2.05                    | -2.00                  | 0.44                  |  |
| 5,800.00              | 88.90           | 184.60      | 3,898.78              | -2,180.61    | -5.94        | 2,180.61                | 4.79                    | -4.29                  | 2.14                  |  |
| 5,843.00              | 88.10           | 184.70      | 3,899.90              | -2,223.45    | -9.42        | 2,223.47                | 1.87                    | -1.86                  | 0.23                  |  |
| 5,879.00              | 88.40           | 185.20      | 3,901.00              | -2,259.30    | -12.52       | 2,259.33                | 1.62                    | 0.83                   | 1.39                  |  |
| 5,910.00              | 88.90           | 185.90      | 3,901.73              | -2,290.14    | -15.52       | 2,290.20                | 2.77                    | 1.61                   | 2.26                  |  |
| 5,940.00              | 89.80           | 185.50      | 3,902.07              | -2,319.99    | -18.50       | 2,320.06                | 3.28                    | 3.00                   | -1.33                 |  |
| 5,971.00              | 88.90           | 185.70      | 3,902.43              | -2,350.84    | -21.53       | 2,350.93                | 2.97                    | -2.90                  | 0.65                  |  |
| 6,002.00              | 90.80           | 184.60      | 3,902.51              | -2,381.72    | -24.31       | 2,381.81                | 7.08                    | 6.13                   | -3.55                 |  |
| 6,033.00              | 91.90           | 184.60      | 3,901.78              | -2,412.61    | -26.79       | 2,412.72                | 3.55                    | 3.55                   | 0.00                  |  |
| 6,064.00              | 92.00           | 183.70      | 3,900.72              | -2,443.51    | -29.04       | 2,443.63                | 2.92                    | 0.32                   | -2.90                 |  |
| 6,107.00              | 93.10           | 181.90      | 3,898.81              | -2,486.41    | -31.13       | 2,486.55                | 4.90                    | 2.56                   | -4.19                 |  |
| 6,152.00              | 93.50           | 182.20      | 3,896.22              | -2,531.31    | -32.74       | 2,531.45                | 1.11                    | 0.89                   | 0.67                  |  |
| 6,194.00              | 93.50           | 182.30      | 3,893.65              | -2,573.20    | -34.39       | 2,573.35                | 0.24                    | 0.00                   | 0.24                  |  |
| 6,239.00              | 94.00           | 182.40      | 3,890.71              | -2,618.06    | -36.23       | 2,618.22                | 1.13                    | 1.11                   | 0.22                  |  |
| 6,284.00              | 94.00           | 181.90      | 3,887.57              | -2,662.92    | -37.91       | 2,663.09                | 1.11                    | 0.00                   | -1.11                 |  |
| 6,327.00              | 93.00           | 179.80      | 3,884.95              | -2,705.83    | -38.55       | 2,706.01                | 5.40                    | -2.33                  | -4.88                 |  |
| 6,370.00              | 89.60           | 179.20      | 3,883.97              | -2,748.81    | -38.17       | 2,748.98                | 8.03                    | -7.91                  | -1.40                 |  |
| 6,415.00              | 89.20           | 179.40      | 3,884.44              | -2,793.81    | -37.62       | 2,793.98                | 0.99                    | -0.89                  | 0.44                  |  |
| 6,458.00              | 88.90           | 179.60      | 3,885.16              | -2,836.80    | -37.25       | 2,836.96                | 0.84                    | -0.70                  | 0.47                  |  |
| 6,500.00              | 89.40           | 179.60      | 3,885.78              | -2,878.80    | -36.96       | 2,878.96                | 1.19                    | 1.19                   | 0.00                  |  |
| 6,543.00              | 89.50           | 179.60      | 3,886.19              | -2,921.79    | -36.66       | 2,921.95                | 0.23                    | 0.23                   | 0.00                  |  |

# LEAM Drilling Systems LLC

## Survey Report

|                  |                           |                                     |  |
|------------------|---------------------------|-------------------------------------|--|
| <b>Company:</b>  | McElvain Oil & Gas        | <b>Local Co-ordinate Reference:</b> | Well #3H   |
| <b>Project:</b>  | Trego County, KS (NAD 83) | <b>TVD Reference:</b>               | GE 2282' + KB 13' @ 2295.00usft (Original Well Elev) |
| <b>Site:</b>     | Faulkner 5                | <b>MD Reference:</b>                | GE 2282' + KB 13' @ 2295.00usft (Original Well Elev) |
| <b>Well:</b>     | #3H                       | <b>North Reference:</b>             | True   |
| <b>Wellbore:</b> | OH                        | <b>Survey Calculation Method:</b>   | Minimum Curvature                                    |
| <b>Design:</b>   | OH                        | <b>Database:</b>                    | EDM 5000.1 Single User Db                            |

| Survey                |                 |             |                       |              |              |                         |                         |                        |                       |  |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|--|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |  |
| 6,585.00              | 88.20           | 179.30      | 3,887.03              | -2,963.78    | -36.25       | 2,963.94                | 3.18                    | -3.10                  | -0.71                 |  |
| 6,628.00              | 89.10           | 179.10      | 3,888.05              | -3,006.76    | -35.65       | 3,006.92                | 2.14                    | 2.09                   | -0.47                 |  |
| 6,673.00              | 89.90           | 178.20      | 3,888.44              | -3,051.75    | -34.59       | 3,051.89                | 2.68                    | 1.78                   | -2.00                 |  |
| 6,718.00              | 92.40           | 178.90      | 3,887.54              | -3,096.72    | -33.45       | 3,096.86                | 5.77                    | 5.56                   | 1.56                  |  |
| 6,761.00              | 92.70           | 178.80      | 3,885.62              | -3,139.67    | -32.59       | 3,139.80                | 0.74                    | 0.70                   | -0.23                 |  |
| 6,806.00              | 88.00           | 179.00      | 3,885.35              | -3,184.65    | -31.73       | 3,184.78                | 10.45                   | -10.44                 | 0.44                  |  |
| 6,851.00              | 89.30           | 179.40      | 3,886.41              | -3,229.63    | -31.10       | 3,229.75                | 3.02                    | 2.89                   | 0.89                  |  |
| 6,894.00              | 90.60           | 178.90      | 3,886.45              | -3,272.63    | -30.46       | 3,272.74                | 3.24                    | 3.02                   | -1.16                 |  |
| 6,939.00              | 89.60           | 179.00      | 3,886.37              | -3,317.62    | -29.64       | 3,317.73                | 2.23                    | -2.22                  | 0.22                  |  |
| 6,981.00              | 93.30           | 179.90      | 3,885.31              | -3,359.59    | -29.23       | 3,359.70                | 9.07                    | 8.81                   | 2.14                  |  |
| 7,025.00              | 88.60           | 179.80      | 3,884.58              | -3,403.58    | -29.12       | 3,403.68                | 10.68                   | -10.68                 | -0.23                 |  |
| 7,067.00              | 87.00           | 180.70      | 3,886.19              | -3,445.54    | -29.30       | 3,445.65                | 4.37                    | -3.81                  | 2.14                  |  |
| 7,110.00              | 87.50           | 179.40      | 3,888.25              | -3,488.49    | -29.34       | 3,488.60                | 3.24                    | 1.16                   | -3.02                 |  |
| 7,152.00              | 88.10           | 179.40      | 3,889.86              | -3,530.46    | -28.90       | 3,530.56                | 1.43                    | 1.43                   | 0.00                  |  |
| 7,195.00              | 88.60           | 177.70      | 3,891.10              | -3,573.42    | -27.81       | 3,573.52                | 4.12                    | 1.16                   | -3.95                 |  |
| 7,237.00              | 89.30           | 178.00      | 3,891.87              | -3,615.39    | -26.24       | 3,615.48                | 1.81                    | 1.67                   | 0.71                  |  |
| 7,277.00              | 89.00           | 177.10      | 3,892.46              | -3,655.35    | -24.53       | 3,655.43                | 2.37                    | -0.75                  | -2.25                 |  |
| 7,320.00              | 88.70           | 177.80      | 3,893.33              | -3,698.29    | -22.61       | 3,698.36                | 1.77                    | -0.70                  | 1.63                  |  |
| 7,363.00              | 87.80           | 176.80      | 3,894.64              | -3,741.23    | -20.59       | 3,741.28                | 3.13                    | -2.09                  | -2.33                 |  |
| 7,407.00              | 87.90           | 175.90      | 3,896.29              | -3,785.11    | -17.79       | 3,785.15                | 2.06                    | 0.23                   | -2.05                 |  |
| 7,450.00              | 88.60           | 175.20      | 3,897.60              | -3,827.96    | -14.46       | 3,827.98                | 2.30                    | 1.63                   | -1.63                 |  |
| 7,492.00              | 91.90           | 174.70      | 3,897.42              | -3,869.79    | -10.76       | 3,869.79                | 7.95                    | 7.86                   | -1.19                 |  |
| 7,537.00              | 92.60           | 175.90      | 3,895.65              | -3,914.60    | -7.08        | 3,914.58                | 3.09                    | 1.56                   | 2.67                  |  |
| 7,582.00              | 93.00           | 176.20      | 3,893.46              | -3,959.44    | -3.98        | 3,959.40                | 1.11                    | 0.89                   | 0.67                  |  |
| 7,627.00              | 92.60           | 176.50      | 3,891.26              | -4,004.29    | -1.12        | 4,004.24                | 1.11                    | -0.89                  | 0.67                  |  |
| 7,670.00              | 91.20           | 177.40      | 3,889.83              | -4,047.21    | 1.17         | 4,047.14                | 3.87                    | -3.26                  | 2.09                  |  |
| 7,712.00              | 90.50           | 178.00      | 3,889.21              | -4,089.17    | 2.85         | 4,089.09                | 2.20                    | -1.67                  | 1.43                  |  |
| 7,757.00              | 89.80           | 178.70      | 3,889.09              | -4,134.15    | 4.15         | 4,134.06                | 2.20                    | -1.56                  | 1.56                  |  |
| 7,800.00              | 90.00           | 178.10      | 3,889.17              | -4,177.13    | 5.35         | 4,177.04                | 1.47                    | 0.47                   | -1.40                 |  |
| 7,845.00              | 90.60           | 177.50      | 3,888.93              | -4,222.10    | 7.08         | 4,221.99                | 1.89                    | 1.33                   | -1.33                 |  |
| 7,888.00              | 90.90           | 178.70      | 3,888.37              | -4,265.07    | 8.50         | 4,264.96                | 2.88                    | 0.70                   | 2.79                  |  |
| 7,931.00              | 91.70           | 178.80      | 3,887.39              | -4,308.05    | 9.44         | 4,307.93                | 1.87                    | 1.86                   | 0.23                  |  |
| 7,981.00              | 91.70           | 178.80      | 3,885.91              | -4,358.02    | 10.49        | 4,357.89                | 0.00                    | 0.00                   | 0.00                  |  |

# LEAM Drilling Systems LLC

## Survey Report - Geographic

|                  |                           |                                     |  |
|------------------|---------------------------|-------------------------------------|--|
| <b>Company:</b>  | McElvain Oil & Gas        | <b>Local Co-ordinate Reference:</b> | Well #3H   |
| <b>Project:</b>  | Trego County, KS (NAD 83) | <b>TVD Reference:</b>               | GE 2282' + KB 13' @ 2295.00usft (Original Well Elev) |
| <b>Site:</b>     | Faulkner 5                | <b>MD Reference:</b>                | GE 2282' + KB 13' @ 2295.00usft (Original Well Elev) |
| <b>Well:</b>     | #3H                       | <b>North Reference:</b>             | True   |
| <b>Wellbore:</b> | OH                        | <b>Survey Calculation Method:</b>   | Minimum Curvature                                    |
| <b>Design:</b>   | OH                        | <b>Database:</b>                    | EDM 5000.1 Single User Db                            |

|                    |                           |                      |                |
|--------------------|---------------------------|----------------------|----------------|
| <b>Project</b>     | Trego County, KS (NAD 83) |                      |                |
| <b>Map System:</b> | US State Plane 1983       | <b>System Datum:</b> | Mean Sea Level |
| <b>Geo Datum:</b>  | North American Datum 1983 |                      |                |
| <b>Map Zone:</b>   | Kansas Northern Zone      |                      |                |

|                              |                  |                     |                   |                          |         |
|------------------------------|------------------|---------------------|-------------------|--------------------------|---------|
| <b>Site</b>                  | Faulkner 5       |                     |                   |                          |         |
| <b>Site Position:</b>        | <b>Northing:</b> | 295,757.06 usft     | <b>Latitude:</b>  | 39° 7' 53.857 N          |         |
| <b>From:</b>                 | <b>Easting:</b>  | 804,933.67 usft     | <b>Longitude:</b> | 99° 47' 19.777 W         |         |
| <b>Position Uncertainty:</b> | 0.00 usft        | <b>Slot Radius:</b> | 13-3/16 "         | <b>Grid Convergence:</b> | -1.13 ° |

|                             |              |                            |                  |                      |                   |                  |
|-----------------------------|--------------|----------------------------|------------------|----------------------|-------------------|------------------|
| <b>Well</b>                 | #3H          |                            |                  |                      |                   |                  |
| <b>Well Position</b>        | <b>+N/-S</b> | 0.00 usft                  | <b>Northing:</b> | 295,757.06 usft      | <b>Latitude:</b>  | 39° 7' 53.857 N  |
|                             | <b>+E/-W</b> | 0.00 usft                  | <b>Easting:</b>  | 804,933.67 usft      | <b>Longitude:</b> | 99° 47' 19.777 W |
| <b>Position Uncertainty</b> | 0.00 usft    | <b>Wellhead Elevation:</b> | usft             | <b>Ground Level:</b> | 2,282.00 usft     |                  |

|                  |                   |                    |                    |                  |                       |
|------------------|-------------------|--------------------|--------------------|------------------|-----------------------|
| <b>Wellbore</b>  | OH                |                    |                    |                  |                       |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination</b> | <b>Dip Angle</b> | <b>Field Strength</b> |
|                  | IGRF2010          | 6/10/2013          | (°)                | (°)              | (nT)                  |
|                  |                   |                    | 5.61               | 66.67            | 52,719                |

|                          |                         |               |              |                      |      |
|--------------------------|-------------------------|---------------|--------------|----------------------|------|
| <b>Design</b>            | OH                      |               |              |                      |      |
| <b>Audit Notes:</b>      |                         |               |              |                      |      |
| <b>Version:</b>          | 1.0                     | <b>Phase:</b> | ACTUAL       | <b>Tie On Depth:</b> | 0.00 |
| <b>Vertical Section:</b> | <b>Depth From (TVD)</b> | <b>+N/-S</b>  | <b>+E/-W</b> | <b>Direction</b>     |      |
|                          | (usft)                  | (usft)        | (usft)       | (°)                  |      |
|                          | 0.00                    | 0.00          | 0.00         | 180.32               |      |

|                       |             |                          |                  |                    |  |
|-----------------------|-------------|--------------------------|------------------|--------------------|--|
| <b>Survey Program</b> | <b>Date</b> |                          | 7/16/2013        |                    |  |
| <b>From</b>           | <b>To</b>   | <b>Survey (Wellbore)</b> | <b>Tool Name</b> | <b>Description</b> |  |
| (usft)                | (usft)      |                          |                  |                    |  |
| 366.00                | 7,931.00    | Survey #1 (OH)           | LEAM MWD         | MWD - Standard     |  |
| 7,981.00              | 7,981.00    | Survey #2 (OH)           | Project          | Projection         |  |

|                 |                    |                |                 |              |              |                 |                |                 |                  |  |
|-----------------|--------------------|----------------|-----------------|--------------|--------------|-----------------|----------------|-----------------|------------------|--|
| <b>Survey</b>   |                    |                |                 |              |              |                 |                |                 |                  |  |
| <b>Measured</b> | <b>Inclination</b> | <b>Azimuth</b> | <b>Vertical</b> | <b>+N/-S</b> | <b>+E/-W</b> | <b>Map</b>      | <b>Map</b>     | <b>Latitude</b> | <b>Longitude</b> |  |
| <b>Depth</b>    | (°)                | (°)            | <b>Depth</b>    | (usft)       | (usft)       | <b>Northing</b> | <b>Easting</b> |                 |                  |  |
| (usft)          |                    |                | (usft)          |              |              | (usft)          | (usft)         |                 |                  |  |
| 0.00            | 0.00               | 0.00           | 0.00            | 0.00         | 0.00         | 295,757.06      | 804,933.67     | 39° 7' 53.857 N | 99° 47' 19.777 W |  |
| 366.00          | 0.40               | 145.10         | 366.00          | -1.05        | 0.73         | 295,756.00      | 804,934.38     | 39° 7' 53.846 N | 99° 47' 19.768 W |  |
| 552.00          | 0.50               | 159.90         | 551.99          | -2.34        | 1.38         | 295,754.69      | 804,935.01     | 39° 7' 53.833 N | 99° 47' 19.759 W |  |
| 861.00          | 0.30               | 228.70         | 860.99          | -4.14        | 1.24         | 295,752.89      | 804,934.83     | 39° 7' 53.816 N | 99° 47' 19.761 W |  |
| 1,121.00        | 0.20               | 95.60          | 1,120.98        | -4.64        | 1.18         | 295,752.40      | 804,934.76     | 39° 7' 53.811 N | 99° 47' 19.762 W |  |
| 1,387.00        | 0.40               | 337.90         | 1,386.98        | -3.82        | 1.29         | 295,753.22      | 804,934.89     | 39° 7' 53.819 N | 99° 47' 19.761 W |  |
| 1,656.00        | 1.00               | 299.80         | 1,655.96        | -1.78        | -1.10        | 295,755.30      | 804,932.54     | 39° 7' 53.839 N | 99° 47' 19.791 W |  |
| 1,923.00        | 1.10               | 266.70         | 1,922.92        | -0.77        | -5.68        | 295,756.40      | 804,927.98     | 39° 7' 53.849 N | 99° 47' 19.849 W |  |
| 2,198.00        | 1.20               | 231.60         | 2,197.87        | -2.71        | -10.57       | 295,754.56      | 804,923.05     | 39° 7' 53.830 N | 99° 47' 19.911 W |  |

# LEAM Drilling Systems LLC

## Survey Report - Geographic

|                  |                           |                                     |  |
|------------------|---------------------------|-------------------------------------|--|
| <b>Company:</b>  | McElvain Oil & Gas        | <b>Local Co-ordinate Reference:</b> | Well #3H   |
| <b>Project:</b>  | Trego County, KS (NAD 83) | <b>TVD Reference:</b>               | GE 2282' + KB 13' @ 2295.00usft (Original Well Elev) |
| <b>Site:</b>     | Faulkner 5                | <b>MD Reference:</b>                | GE 2282' + KB 13' @ 2295.00usft (Original Well Elev) |
| <b>Well:</b>     | #3H                       | <b>North Reference:</b>             | True   |
| <b>Wellbore:</b> | OH                        | <b>Survey Calculation Method:</b>   | Minimum Curvature                                    |
| <b>Design:</b>   | OH                        | <b>Database:</b>                    | EDM 5000.1 Single User Db                            |

| Survey                                  |                    |                |                             |                 |                 |                           |                          |                 |                  |  |
|---|--------------------|----------------|-----------------------------|-----------------|-----------------|---------------------------|--------------------------|-----------------|------------------|--|
| Measured<br>Depth<br>(usft)             | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Map<br>Northing<br>(usft) | Map<br>Easting<br>(usft) | Latitude        | Longitude        |  |
| 2,459.00                                | 2.00               | 215.80         | 2,458.76                    | -8.11           | -15.38          | 295,749.26                | 804,918.14               | 39° 7' 53.776 N | 99° 47' 19.972 W |  |
| 2,729.00                                | 1.50               | 223.40         | 2,728.64                    | -14.50          | -20.56          | 295,742.97                | 804,912.83               | 39° 7' 53.713 N | 99° 47' 20.038 W |  |
| 2,995.00                                | 1.50               | 235.70         | 2,994.55                    | -18.99          | -25.83          | 295,738.59                | 804,907.47               | 39° 7' 53.669 N | 99° 47' 20.105 W |  |
| 3,085.00                                | 1.40               | 229.00         | 3,084.52                    | -20.37          | -27.63          | 295,737.24                | 804,905.64               | 39° 7' 53.655 N | 99° 47' 20.128 W |  |
| 3,246.00                                | 1.10               | 236.90         | 3,245.48                    | -22.51          | -30.41          | 295,735.16                | 804,902.82               | 39° 7' 53.634 N | 99° 47' 20.163 W |  |
| 3,288.00                                | 2.50               | 210.70         | 3,287.46                    | -23.51          | -31.22          | 295,734.17                | 804,902.00               | 39° 7' 53.624 N | 99° 47' 20.173 W |  |
| 3,330.00                                | 4.50               | 196.30         | 3,329.38                    | -25.88          | -32.15          | 295,731.82                | 804,901.02               | 39° 7' 53.601 N | 99° 47' 20.185 W |  |
| 3,371.00                                | 7.30               | 185.70         | 3,370.16                    | -30.02          | -32.86          | 295,727.70                | 804,900.23               | 39° 7' 53.560 N | 99° 47' 20.194 W |  |
| 3,416.00                                | 10.40              | 184.70         | 3,414.62                    | -36.91          | -33.48          | 295,720.81                | 804,899.47               | 39° 7' 53.492 N | 99° 47' 20.202 W |  |
| 3,460.00                                | 13.90              | 185.40         | 3,457.63                    | -46.14          | -34.30          | 295,711.61                | 804,898.47               | 39° 7' 53.401 N | 99° 47' 20.212 W |  |
| 3,505.00                                | 18.50              | 179.80         | 3,500.83                    | -58.66          | -34.78          | 295,699.09                | 804,897.74               | 39° 7' 53.277 N | 99° 47' 20.218 W |  |
| 3,550.00                                | 24.20              | 179.50         | 3,542.72                    | -75.04          | -34.68          | 295,682.72                | 804,897.52               | 39° 7' 53.115 N | 99° 47' 20.217 W |  |
| 3,594.00                                | 29.60              | 179.10         | 3,581.95                    | -94.94          | -34.43          | 295,662.82                | 804,897.38               | 39° 7' 52.918 N | 99° 47' 20.214 W |  |
| 3,639.00                                | 34.30              | 180.00         | 3,620.12                    | -118.74         | -34.25          | 295,639.02                | 804,897.08               | 39° 7' 52.683 N | 99° 47' 20.212 W |  |
| 3,650.00                                | 35.20              | 180.16         | 3,629.16                    | -125.01         | -34.26          | 295,632.75                | 804,896.95               | 39° 7' 52.621 N | 99° 47' 20.212 W |  |
| <b>HL Crossing: MD 3650', TVD 3629'</b> |                    |                |                             |                 |                 |                           |                          |                 |                  |  |
| 3,684.00                                | 38.00              | 180.60         | 3,656.45                    | -145.28         | -34.40          | 295,612.48                | 804,896.41               | 39° 7' 52.421 N | 99° 47' 20.213 W |  |
| 3,729.00                                | 41.70              | 180.20         | 3,690.99                    | -174.11         | -34.60          | 295,583.66                | 804,895.64               | 39° 7' 52.136 N | 99° 47' 20.216 W |  |
| 3,774.00                                | 45.90              | 180.40         | 3,723.47                    | -205.25         | -34.76          | 295,552.53                | 804,894.86               | 39° 7' 51.828 N | 99° 47' 20.218 W |  |
| 3,819.00                                | 50.00              | 179.70         | 3,753.60                    | -238.66         | -34.78          | 295,519.13                | 804,894.18               | 39° 7' 51.498 N | 99° 47' 20.218 W |  |
| 3,864.00                                | 53.80              | 178.10         | 3,781.36                    | -274.06         | -34.09          | 295,483.73                | 804,894.18               | 39° 7' 51.148 N | 99° 47' 20.210 W |  |
| 3,909.00                                | 57.50              | 175.70         | 3,806.75                    | -311.14         | -32.07          | 295,446.61                | 804,895.47               | 39° 7' 50.781 N | 99° 47' 20.184 W |  |
| 3,954.00                                | 60.20              | 175.00         | 3,830.03                    | -349.52         | -28.94          | 295,408.18                | 804,897.83               | 39° 7' 50.402 N | 99° 47' 20.144 W |  |
| 3,999.00                                | 64.00              | 174.00         | 3,851.08                    | -389.10         | -25.12          | 295,368.53                | 804,900.87               | 39° 7' 50.011 N | 99° 47' 20.096 W |  |
| 4,043.00                                | 69.70              | 173.80         | 3,868.37                    | -429.31         | -20.82          | 295,328.24                | 804,904.37               | 39° 7' 49.613 N | 99° 47' 20.041 W |  |
| 4,088.00                                | 74.10              | 175.90         | 3,882.35                    | -471.90         | -17.00          | 295,285.59                | 804,907.36               | 39° 7' 49.192 N | 99° 47' 19.993 W |  |
| 4,133.00                                | 79.10              | 176.10         | 3,892.78                    | -515.56         | -13.94          | 295,241.88                | 804,909.55               | 39° 7' 48.761 N | 99° 47' 19.954 W |  |
| 4,178.00                                | 84.70              | 178.00         | 3,899.11                    | -560.03         | -11.66          | 295,197.37                | 804,910.96               | 39° 7' 48.321 N | 99° 47' 19.925 W |  |
| 4,219.00                                | 89.60              | 178.10         | 3,901.15                    | -600.94         | -10.26          | 295,156.44                | 804,911.54               | 39° 7' 47.917 N | 99° 47' 19.907 W |  |
| 4,264.00                                | 91.00              | 178.60         | 3,900.92                    | -645.92         | -8.97           | 295,111.44                | 804,911.95               | 39° 7' 47.472 N | 99° 47' 19.891 W |  |
| 4,309.00                                | 90.80              | 178.50         | 3,900.21                    | -690.90         | -7.83           | 295,066.45                | 804,912.20               | 39° 7' 47.028 N | 99° 47' 19.876 W |  |
| 4,353.00                                | 90.80              | 178.50         | 3,899.60                    | -734.88         | -6.68           | 295,022.45                | 804,912.48               | 39° 7' 46.593 N | 99° 47' 19.862 W |  |
| 4,398.00                                | 90.70              | 178.50         | 3,899.01                    | -779.86         | -5.50           | 294,977.46                | 804,912.77               | 39° 7' 46.148 N | 99° 47' 19.847 W |  |
| 4,476.00                                | 88.40              | 181.00         | 3,899.62                    | -857.85         | -5.16           | 294,899.48                | 804,911.57               | 39° 7' 45.377 N | 99° 47' 19.842 W |  |
| 4,521.00                                | 89.70              | 181.40         | 3,900.36                    | -902.83         | -6.10           | 294,854.53                | 804,909.74               | 39° 7' 44.933 N | 99° 47' 19.854 W |  |
| 4,563.00                                | 90.10              | 181.70         | 3,900.44                    | -944.81         | -7.24           | 294,812.57                | 804,907.77               | 39° 7' 44.518 N | 99° 47' 19.869 W |  |
| 4,606.00                                | 90.40              | 182.50         | 3,900.25                    | -987.78         | -8.81           | 294,769.64                | 804,905.35               | 39° 7' 44.093 N | 99° 47' 19.889 W |  |
| 4,649.00                                | 89.50              | 181.90         | 3,900.29                    | -1,030.75       | -10.46          | 294,726.72                | 804,902.85               | 39° 7' 43.668 N | 99° 47' 19.910 W |  |
| 4,694.00                                | 88.90              | 181.10         | 3,900.92                    | -1,075.73       | -11.64          | 294,681.77                | 804,900.78               | 39° 7' 43.224 N | 99° 47' 19.925 W |  |
| 4,739.00                                | 89.00              | 181.00         | 3,901.74                    | -1,120.72       | -12.47          | 294,636.81                | 804,899.07               | 39° 7' 42.779 N | 99° 47' 19.935 W |  |
| 4,784.00                                | 89.00              | 180.60         | 3,902.53                    | -1,165.71       | -13.10          | 294,591.84                | 804,897.55               | 39° 7' 42.334 N | 99° 47' 19.943 W |  |
| 4,829.00                                | 90.50              | 180.30         | 3,902.72                    | -1,210.70       | -13.45          | 294,546.86                | 804,896.31               | 39° 7' 41.890 N | 99° 47' 19.948 W |  |
| 4,874.00                                | 90.70              | 179.90         | 3,902.25                    | -1,255.70       | -13.53          | 294,501.87                | 804,895.35               | 39° 7' 41.445 N | 99° 47' 19.949 W |  |
| 4,919.00                                | 88.10              | 178.60         | 3,902.72                    | -1,300.69       | -12.94          | 294,456.88                | 804,895.05               | 39° 7' 41.000 N | 99° 47' 19.941 W |  |
| 4,964.00                                | 87.70              | 178.00         | 3,904.37                    | -1,345.64       | -11.60          | 294,411.91                | 804,895.49               | 39° 7' 40.556 N | 99° 47' 19.924 W |  |
| 5,009.00                                | 88.20              | 178.10         | 3,905.98                    | -1,390.58       | -10.07          | 294,366.95                | 804,896.13               | 39° 7' 40.112 N | 99° 47' 19.905 W |  |
| 5,054.00                                | 88.90              | 177.60         | 3,907.12                    | -1,435.54       | -8.39           | 294,321.97                | 804,896.93               | 39° 7' 39.667 N | 99° 47' 19.883 W |  |
| 5,097.00                                | 89.30              | 177.00         | 3,907.80                    | -1,478.48       | -6.36           | 294,278.99                | 804,898.11               | 39° 7' 39.243 N | 99° 47' 19.858 W |  |
| 5,142.00                                | 92.60              | 177.60         | 3,907.05                    | -1,523.42       | -4.24           | 294,234.02                | 804,899.34               | 39° 7' 38.799 N | 99° 47' 19.831 W |  |
| 5,187.00                                | 92.00              | 177.60         | 3,905.24                    | -1,568.35       | -2.36           | 294,189.07                | 804,900.34               | 39° 7' 38.355 N | 99° 47' 19.807 W |  |
| 5,229.00                                | 91.20              | 177.60         | 3,904.07                    | -1,610.29       | -0.60           | 294,147.10                | 804,901.26               | 39° 7' 37.940 N | 99° 47' 19.785 W |  |
| 5,272.00                                | 90.60              | 177.70         | 3,903.40                    | -1,653.25       | 1.16            | 294,104.11                | 804,902.18               | 39° 7' 37.515 N | 99° 47' 19.762 W |  |
| 5,315.00                                | 90.90              | 177.50         | 3,902.83                    | -1,696.21       | 2.96            | 294,061.12                | 804,903.13               | 39° 7' 37.091 N | 99° 47' 19.739 W |  |

# LEAM Drilling Systems LLC

## Survey Report - Geographic

|                  |                           |                                     |  |
|------------------|---------------------------|-------------------------------------|--|
| <b>Company:</b>  | McElvain Oil & Gas        | <b>Local Co-ordinate Reference:</b> | Well #3H   |
| <b>Project:</b>  | Trego County, KS (NAD 83) | <b>TVD Reference:</b>               | GE 2282' + KB 13' @ 2295.00usft (Original Well Elev) |
| <b>Site:</b>     | Faulkner 5                | <b>MD Reference:</b>                | GE 2282' + KB 13' @ 2295.00usft (Original Well Elev) |
| <b>Well:</b>     | #3H                       | <b>North Reference:</b>             | True   |
| <b>Wellbore:</b> | OH                        | <b>Survey Calculation Method:</b>   | Minimum Curvature                                    |
| <b>Design:</b>   | OH                        | <b>Database:</b>                    | EDM 5000.1 Single User Db                            |

| Survey                      |                    |                |                             |                 |                 |                           |                          |                 |                  |  |
|-----------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|---------------------------|--------------------------|-----------------|------------------|--|
| Measured<br>Depth<br>(usft) | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Map<br>Northing<br>(usft) | Map<br>Easting<br>(usft) | Latitude        | Longitude        |  |
| 5,358.00                    | 91.50              | 177.90         | 3,901.93                    | -1,739.16       | 4.69            | 294,018.14                | 804,904.01               | 39° 7' 36.666 N | 99° 47' 19.717 W |  |
| 5,400.00                    | 89.60              | 178.70         | 3,901.53                    | -1,781.14       | 5.93            | 293,976.15                | 804,904.42               | 39° 7' 36.251 N | 99° 47' 19.702 W |  |
| 5,443.00                    | 88.60              | 178.80         | 3,902.20                    | -1,824.13       | 6.87            | 293,933.16                | 804,904.51               | 39° 7' 35.826 N | 99° 47' 19.690 W |  |
| 5,488.00                    | 89.50              | 179.30         | 3,902.95                    | -1,869.11       | 7.62            | 293,888.16                | 804,904.37               | 39° 7' 35.382 N | 99° 47' 19.680 W |  |
| 5,533.00                    | 89.10              | 179.80         | 3,903.50                    | -1,914.11       | 7.97            | 293,843.17                | 804,903.83               | 39° 7' 34.937 N | 99° 47' 19.676 W |  |
| 5,578.00                    | 90.20              | 181.80         | 3,903.78                    | -1,959.10       | 7.34            | 293,798.20                | 804,902.32               | 39° 7' 34.492 N | 99° 47' 19.684 W |  |
| 5,623.00                    | 92.00              | 183.50         | 3,902.91                    | -2,004.04       | 5.26            | 293,753.31                | 804,899.35               | 39° 7' 34.048 N | 99° 47' 19.710 W |  |
| 5,668.00                    | 92.50              | 183.30         | 3,901.14                    | -2,048.93       | 2.60            | 293,708.48                | 804,895.80               | 39° 7' 33.604 N | 99° 47' 19.744 W |  |
| 5,713.00                    | 91.60              | 183.50         | 3,899.53                    | -2,093.82       | -0.07           | 293,663.65                | 804,892.24               | 39° 7' 33.161 N | 99° 47' 19.778 W |  |
| 5,758.00                    | 90.70              | 183.70         | 3,898.63                    | -2,138.72       | -2.90           | 293,618.82                | 804,888.53               | 39° 7' 32.717 N | 99° 47' 19.814 W |  |
| 5,800.00                    | 88.90              | 184.60         | 3,898.78                    | -2,180.61       | -5.94           | 293,577.00                | 804,884.67               | 39° 7' 32.303 N | 99° 47' 19.852 W |  |
| 5,843.00                    | 88.10              | 184.70         | 3,899.90                    | -2,223.45       | -9.42           | 293,534.23                | 804,880.34               | 39° 7' 31.879 N | 99° 47' 19.896 W |  |
| 5,879.00                    | 88.40              | 185.20         | 3,901.00                    | -2,259.30       | -12.52          | 293,498.45                | 804,876.52               | 39° 7' 31.525 N | 99° 47' 19.936 W |  |
| 5,910.00                    | 88.90              | 185.90         | 3,901.73                    | -2,290.14       | -15.52          | 293,467.67                | 804,872.92               | 39° 7' 31.220 N | 99° 47' 19.974 W |  |
| 5,940.00                    | 89.80              | 185.50         | 3,902.07                    | -2,319.99       | -18.50          | 293,437.89                | 804,869.35               | 39° 7' 30.925 N | 99° 47' 20.012 W |  |
| 5,971.00                    | 88.90              | 185.70         | 3,902.43                    | -2,350.84       | -21.53          | 293,407.10                | 804,865.72               | 39° 7' 30.620 N | 99° 47' 20.050 W |  |
| 6,002.00                    | 90.80              | 184.60         | 3,902.51                    | -2,381.72       | -24.31          | 293,376.29                | 804,862.32               | 39° 7' 30.315 N | 99° 47' 20.085 W |  |
| 6,033.00                    | 91.90              | 184.60         | 3,901.78                    | -2,412.61       | -26.79          | 293,345.45                | 804,859.23               | 39° 7' 30.010 N | 99° 47' 20.117 W |  |
| 6,064.00                    | 92.00              | 183.70         | 3,900.72                    | -2,443.51       | -29.04          | 293,314.60                | 804,856.38               | 39° 7' 29.704 N | 99° 47' 20.145 W |  |
| 6,107.00                    | 93.10              | 181.90         | 3,898.81                    | -2,486.41       | -31.13          | 293,271.75                | 804,853.43               | 39° 7' 29.280 N | 99° 47' 20.172 W |  |
| 6,152.00                    | 93.50              | 182.20         | 3,896.22                    | -2,531.31       | -32.74          | 293,226.89                | 804,850.94               | 39° 7' 28.836 N | 99° 47' 20.192 W |  |
| 6,194.00                    | 93.50              | 182.30         | 3,893.65                    | -2,573.20       | -34.39          | 293,185.04                | 804,848.46               | 39° 7' 28.422 N | 99° 47' 20.213 W |  |
| 6,239.00                    | 94.00              | 182.40         | 3,890.71                    | -2,618.06       | -36.23          | 293,140.22                | 804,845.74               | 39° 7' 27.979 N | 99° 47' 20.237 W |  |
| 6,284.00                    | 94.00              | 181.90         | 3,887.57                    | -2,662.92       | -37.91          | 293,095.41                | 804,843.17               | 39° 7' 27.536 N | 99° 47' 20.258 W |  |
| 6,327.00                    | 93.00              | 179.80         | 3,884.95                    | -2,705.83       | -38.55          | 293,052.52                | 804,841.68               | 39° 7' 27.111 N | 99° 47' 20.266 W |  |
| 6,370.00                    | 89.60              | 179.20         | 3,883.97                    | -2,748.81       | -38.17          | 293,009.54                | 804,841.21               | 39° 7' 26.687 N | 99° 47' 20.261 W |  |
| 6,415.00                    | 89.20              | 179.40         | 3,884.44                    | -2,793.81       | -37.62          | 292,964.54                | 804,840.87               | 39° 7' 26.242 N | 99° 47' 20.254 W |  |
| 6,458.00                    | 88.90              | 179.60         | 3,885.16                    | -2,836.80       | -37.25          | 292,921.55                | 804,840.40               | 39° 7' 25.817 N | 99° 47' 20.250 W |  |
| 6,500.00                    | 89.40              | 179.60         | 3,885.78                    | -2,878.80       | -36.96          | 292,879.56                | 804,839.86               | 39° 7' 25.402 N | 99° 47' 20.246 W |  |
| 6,543.00                    | 89.50              | 179.60         | 3,886.19                    | -2,921.79       | -36.66          | 292,836.56                | 804,839.31               | 39° 7' 24.977 N | 99° 47' 20.242 W |  |
| 6,585.00                    | 88.20              | 179.30         | 3,887.03                    | -2,963.78       | -36.25          | 292,794.57                | 804,838.88               | 39° 7' 24.562 N | 99° 47' 20.237 W |  |
| 6,628.00                    | 89.10              | 179.10         | 3,888.05                    | -3,006.76       | -35.65          | 292,751.59                | 804,838.64               | 39° 7' 24.137 N | 99° 47' 20.229 W |  |
| 6,673.00                    | 89.90              | 178.20         | 3,888.44                    | -3,051.75       | -34.59          | 292,706.59                | 804,838.81               | 39° 7' 23.692 N | 99° 47' 20.216 W |  |
| 6,718.00                    | 92.40              | 178.90         | 3,887.54                    | -3,096.72       | -33.45          | 292,661.60                | 804,839.06               | 39° 7' 23.248 N | 99° 47' 20.201 W |  |
| 6,761.00                    | 92.70              | 178.80         | 3,885.62                    | -3,139.67       | -32.59          | 292,618.65                | 804,839.07               | 39° 7' 22.823 N | 99° 47' 20.190 W |  |
| 6,806.00                    | 88.00              | 179.00         | 3,885.35                    | -3,184.65       | -31.73          | 292,573.66                | 804,839.05               | 39° 7' 22.379 N | 99° 47' 20.180 W |  |
| 6,851.00                    | 89.30              | 179.40         | 3,886.41                    | -3,229.63       | -31.10          | 292,528.67                | 804,838.79               | 39° 7' 21.934 N | 99° 47' 20.172 W |  |
| 6,894.00                    | 90.60              | 178.90         | 3,886.45                    | -3,272.63       | -30.46          | 292,485.68                | 804,838.57               | 39° 7' 21.509 N | 99° 47' 20.163 W |  |
| 6,939.00                    | 89.60              | 179.00         | 3,886.37                    | -3,317.62       | -29.64          | 292,440.68                | 804,838.51               | 39° 7' 21.064 N | 99° 47' 20.153 W |  |
| 6,981.00                    | 93.30              | 179.90         | 3,885.31                    | -3,359.59       | -29.23          | 292,398.70                | 804,838.08               | 39° 7' 20.650 N | 99° 47' 20.148 W |  |
| 7,025.00                    | 88.60              | 179.80         | 3,884.58                    | -3,403.58       | -29.12          | 292,354.72                | 804,837.33               | 39° 7' 20.215 N | 99° 47' 20.146 W |  |
| 7,067.00                    | 87.00              | 180.70         | 3,886.19                    | -3,445.54       | -29.30          | 292,312.77                | 804,836.32               | 39° 7' 19.800 N | 99° 47' 20.149 W |  |
| 7,110.00                    | 87.50              | 179.40         | 3,888.25                    | -3,488.49       | -29.34          | 292,269.83                | 804,835.43               | 39° 7' 19.375 N | 99° 47' 20.149 W |  |
| 7,152.00                    | 88.10              | 179.40         | 3,889.86                    | -3,530.46       | -28.90          | 292,227.86                | 804,835.04               | 39° 7' 18.961 N | 99° 47' 20.144 W |  |
| 7,195.00                    | 88.60              | 177.70         | 3,891.10                    | -3,573.42       | -27.81          | 292,184.88                | 804,835.28               | 39° 7' 18.536 N | 99° 47' 20.130 W |  |
| 7,237.00                    | 89.30              | 178.00         | 3,891.87                    | -3,615.39       | -26.24          | 292,142.90                | 804,836.03               | 39° 7' 18.121 N | 99° 47' 20.110 W |  |
| 7,277.00                    | 89.00              | 177.10         | 3,892.46                    | -3,655.35       | -24.53          | 292,102.91                | 804,836.95               | 39° 7' 17.726 N | 99° 47' 20.088 W |  |
| 7,320.00                    | 88.70              | 177.80         | 3,893.33                    | -3,698.29       | -22.61          | 292,059.93                | 804,838.01               | 39° 7' 17.302 N | 99° 47' 20.064 W |  |
| 7,363.00                    | 87.80              | 176.80         | 3,894.64                    | -3,741.23       | -20.59          | 292,016.97                | 804,839.19               | 39° 7' 16.877 N | 99° 47' 20.038 W |  |
| 7,407.00                    | 87.90              | 175.90         | 3,896.29                    | -3,785.11       | -17.79          | 291,973.05                | 804,841.12               | 39° 7' 16.444 N | 99° 47' 20.003 W |  |
| 7,450.00                    | 88.60              | 175.20         | 3,897.60                    | -3,827.96       | -14.46          | 291,930.14                | 804,843.61               | 39° 7' 16.020 N | 99° 47' 19.960 W |  |
| 7,492.00                    | 91.90              | 174.70         | 3,897.42                    | -3,869.79       | -10.76          | 291,888.24                | 804,846.48               | 39° 7' 15.607 N | 99° 47' 19.913 W |  |
| 7,537.00                    | 92.60              | 175.90         | 3,895.65                    | -3,914.60       | -7.08           | 291,843.37                | 804,849.28               | 39° 7' 15.164 N | 99° 47' 19.867 W |  |



# LEAM Drilling Systems LLC

## Survey Report - Geographic

|                  |                           |                                     |  |
|------------------|---------------------------|-------------------------------------|--|
| <b>Company:</b>  | McElvain Oil & Gas        | <b>Local Co-ordinate Reference:</b> | Well #3H   |
| <b>Project:</b>  | Trego County, KS (NAD 83) | <b>TVD Reference:</b>               | GE 2282' + KB 13' @ 2295.00usft (Original Well Elev) |
| <b>Site:</b>     | Faulkner 5                | <b>MD Reference:</b>                | GE 2282' + KB 13' @ 2295.00usft (Original Well Elev) |
| <b>Well:</b>     | #3H                       | <b>North Reference:</b>             | True   |
| <b>Wellbore:</b> | OH                        | <b>Survey Calculation Method:</b>   | Minimum Curvature                                    |
| <b>Design:</b>   | OH                        | <b>Database:</b>                    | EDM 5000.1 Single User Db                            |

| Survey                |                 |             |                       |              |              |                     |                    |                 |                  |  |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|---------------------|--------------------|-----------------|------------------|--|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Map Northing (usft) | Map Easting (usft) | Latitude        | Longitude        |  |
| 7,582.00              | 93.00           | 176.20      | 3,893.46              | -3,959.44    | -3.98        | 291,798.47          | 804,851.49         | 39° 7' 14.721 N | 99° 47' 19.827 W |  |
| 7,627.00              | 92.60           | 176.50      | 3,891.26              | -4,004.29    | -1.12        | 291,753.57          | 804,853.46         | 39° 7' 14.277 N | 99° 47' 19.791 W |  |
| 7,670.00              | 91.20           | 177.40      | 3,889.83              | -4,047.21    | 1.17         | 291,710.62          | 804,854.90         | 39° 7' 13.853 N | 99° 47' 19.762 W |  |
| 7,712.00              | 90.50           | 178.00      | 3,889.21              | -4,089.17    | 2.85         | 291,668.63          | 804,855.75         | 39° 7' 13.438 N | 99° 47' 19.741 W |  |
| 7,757.00              | 89.80           | 178.70      | 3,889.09              | -4,134.15    | 4.15         | 291,623.64          | 804,856.16         | 39° 7' 12.994 N | 99° 47' 19.724 W |  |
| 7,800.00              | 90.00           | 178.10      | 3,889.17              | -4,177.13    | 5.35         | 291,580.64          | 804,856.51         | 39° 7' 12.569 N | 99° 47' 19.709 W |  |
| 7,845.00              | 90.60           | 177.50      | 3,888.93              | -4,222.10    | 7.08         | 291,535.65          | 804,857.35         | 39° 7' 12.124 N | 99° 47' 19.687 W |  |
| 7,888.00              | 90.90           | 178.70      | 3,888.37              | -4,265.07    | 8.50         | 291,492.66          | 804,857.93         | 39° 7' 11.700 N | 99° 47' 19.669 W |  |
| 7,931.00              | 91.70           | 178.80      | 3,887.39              | -4,308.05    | 9.44         | 291,449.67          | 804,858.02         | 39° 7' 11.275 N | 99° 47' 19.657 W |  |
| 7,981.00              | 91.70           | 178.80      | 3,885.91              | -4,358.02    | 10.49        | 291,399.69          | 804,858.08         | 39° 7' 10.781 N | 99° 47' 19.644 W |  |

| Design Annotations    |                       |                   |              |                                  |  |
|-----------------------|-----------------------|-------------------|--------------|----------------------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates |              | Comment                          |  |
|                       |                       | +N/-S (usft)      | +E/-W (usft) |                                  |  |
| 3,650.00              | 3,629.16              | -125.01           | -34.26       | HL Crossing: MD 3650', TVD 3629' |  |