



30-025-43425

## **Mewbourne Oil Company**

**Lea County N. M. Nad (83)**

**Section 3-22S-34E Ram 3 B3PA State Com #1H**

**Ram 3 B3PA State Com #1H**

**Original Hole**

**Design: Original Hole**

## **Standard Survey Report**

**26 February, 2018**



|                  |                                            |                                     |                                        |
|------------------|--------------------------------------------|-------------------------------------|----------------------------------------|
| <b>Company:</b>  | Mewbourne Oil Company                      | <b>Local Co-ordinate Reference:</b> | Well Ram 3 B3PA State Com #1H          |
| <b>Project:</b>  | Lea County N. M. Nad (83)                  | <b>TVD Reference:</b>               | 3588 + 27 @ 3615.0usft (Patterson 220) |
| <b>Site:</b>     | Section 3-22S-34E Ram 3 B3PA State Com #1H | <b>MD Reference:</b>                | 3588 + 27 @ 3615.0usft (Patterson 220) |
| <b>Well:</b>     | Ram 3 B3PA State Com #1H                   | <b>North Reference:</b>             | Grid                                   |
| <b>Wellbore:</b> | Original Hole                              | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Design:</b>   | Original Hole                              | <b>Database:</b>                    | Stryker_EDM                            |

|                    |                           |                      |                |
|--------------------|---------------------------|----------------------|----------------|
| <b>Project</b>     | Lea County N. M. 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>   | New Mexico Eastern Zone   |                      |                |

|                              |                                            |                     |                 |                          |                  |
|------------------------------|--------------------------------------------|---------------------|-----------------|--------------------------|------------------|
| <b>Site</b>                  | Section 3-22S-34E Ram 3 B3PA State Com #1H |                     |                 |                          |                  |
| <b>Site Position:</b>        |                                            | <b>Northing:</b>    | 515,483.40 usft | <b>Latitude:</b>         | 32° 24' 50.546 N |
| <b>From:</b>                 | Map                                        | <b>Easting:</b>     | 813,657.80 usft | <b>Longitude:</b>        | 103° 27' 3.144 W |
| <b>Position Uncertainty:</b> | 0.0 usft                                   | <b>Slot Radius:</b> | 13-3/16 "       | <b>Grid Convergence:</b> | 0.47 °           |

|                      |                          |          |                     |                 |               |                  |
|----------------------|--------------------------|----------|---------------------|-----------------|---------------|------------------|
| Well                 | Ram 3 B3PA State Com #1H |          |                     |                 |               |                  |
| Well Position        | +N/-S                    | 0.0 usft | Northing:           | 515,483.40 usft | Latitude:     | 32° 24' 50.546 N |
|                      | +E/-W                    | 0.0 usft | Easting:            | 813,657.80 usft | Longitude:    | 103° 27' 3.144 W |
| Position Uncertainty |                          | 0.0 usft | Wellhead Elevation: | 27.0 usft       | Ground Level: | 3,588.0 usft     |

|                 |               |  |  |  |  |
|-----------------|---------------|--|--|--|--|
| <b>Wellbore</b> | Original Hole |  |  |  |  |
|-----------------|---------------|--|--|--|--|

| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
|-----------|------------|-------------|-----------------|---------------|---------------------|
|           | IGRF2015   | 1/24/2018   | 6.85            | 60.25         | 48,000.00887323     |

|               |               |  |  |  |  |
|---------------|---------------|--|--|--|--|
| <b>Design</b> | Original Hole |  |  |  |  |
|---------------|---------------|--|--|--|--|

|                     |     |               |        |                      |     |
|---------------------|-----|---------------|--------|----------------------|-----|
| <b>Audit Notes:</b> |     |               |        |                      |     |
| <b>Version:</b>     | 1.0 | <b>Phase:</b> | ACTUAL | <b>Tie On Depth:</b> | 0.0 |

| Vertical Section: | Depth From (TVD) (usft) | +N/-S (usft) | +E/-W (usft) | Direction (°) |
|-------------------|-------------------------|--------------|--------------|---------------|
|                   | 0.0                     | 0.0          | 0.0          | 74.97         |

| Survey Program |           | Date 2/26/2018                      |             |                                |
|----------------|-----------|-------------------------------------|-------------|--------------------------------|
| From (usft)    | To (usft) | Survey (Wellbore)                   | Tool Name   | Description                    |
| 100.0          | 5,495.0   | Phoenix Gyro Survey (Original Hole) | SRG-GYRO-MS | surface readout gyro multishot |
| 5,684.0        | 15,980.0  | MWD Survey 2 (Original Hole)        | MWD         | MWD v3:standard declination    |

| 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) |
|--------|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
|        | 0.0                   | 0.00            | 0.00        | 0.0                   | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
|        | 100.0                 | 0.27            | 322.50      | 100.0                 | 0.2          | -0.1         | -0.1                    | 0.27                    | 0.27                   | 0.00                  |
|        | 200.0                 | 0.22            | 294.07      | 200.0                 | 0.5          | -0.5         | -0.3                    | 0.13                    | -0.05                  | -28.43                |
|        | 300.0                 | 0.25            | 297.13      | 300.0                 | 0.6          | -0.8         | -0.6                    | 0.03                    | 0.03                   | 3.06                  |
|        | 400.0                 | 0.34            | 25.35       | 400.0                 | 1.0          | -0.9         | -0.6                    | 0.42                    | 0.09                   | 88.22                 |
|        | 500.0                 | 0.20            | 330.05      | 500.0                 | 1.4          | -0.9         | -0.5                    | 0.28                    | -0.14                  | -55.30                |
|        | 600.0                 | 0.45            | 303.47      | 600.0                 | 1.8          | -1.3         | -0.8                    | 0.29                    | 0.25                   | -26.58                |
|        | 700.0                 | 0.54            | 330.81      | 700.0                 | 2.4          | -1.8         | -1.1                    | 0.25                    | 0.09                   | 27.34                 |
|        | 800.0                 | 0.58            | 8.79        | 800.0                 | 3.3          | -2.0         | -1.1                    | 0.37                    | 0.04                   | 37.98                 |
|        | 900.0                 | 0.42            | 27.65       | 900.0                 | 4.1          | -1.7         | -0.6                    | 0.23                    | -0.16                  | 18.86                 |

|                  |                                            |                                     |                                        |
|------------------|--------------------------------------------|-------------------------------------|----------------------------------------|
| <b>Company:</b>  | Mewbourne Oil Company                      | <b>Local Co-ordinate Reference:</b> | Well Ram 3 B3PA State Com #1H          |
| <b>Project:</b>  | Lea County N. M. Nad (83)                  | <b>TVD Reference:</b>               | 3588 + 27 @ 3615.0usft (Patterson 220) |
| <b>Site:</b>     | Section 3-22S-34E Ram 3 B3PA State Com #1H | <b>MD Reference:</b>                | 3588 + 27 @ 3615.0usft (Patterson 220) |
| <b>Well:</b>     | Ram 3 B3PA State Com #1H                   | <b>North Reference:</b>             | Grid                                   |
| <b>Wellbore:</b> | Original Hole                              | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Design:</b>   | Original Hole                              | <b>Database:</b>                    | Stryker_EDM                            |

## 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) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 1,000.0               | 0.30            | 89.83       | 1,000.0               | 4.5          | -1.3         | -0.1                    | 0.39                    | -0.12                  | 62.18                 |
| 1,100.0               | 0.14            | 336.31      | 1,100.0               | 4.6          | -1.1         | 0.1                     | 0.38                    | -0.16                  | -113.52               |
| 1,200.0               | 0.52            | 260.02      | 1,200.0               | 4.6          | -1.6         | -0.3                    | 0.51                    | 0.38                   | -76.29                |
| 1,300.0               | 0.57            | 273.03      | 1,300.0               | 4.6          | -2.5         | -1.3                    | 0.13                    | 0.05                   | 13.01                 |
| 1,400.0               | 0.55            | 256.77      | 1,400.0               | 4.5          | -3.5         | -2.2                    | 0.16                    | -0.02                  | -16.26                |
| 1,500.0               | 0.25            | 2.53        | 1,500.0               | 4.6          | -4.0         | -2.6                    | 0.66                    | -0.30                  | 105.76                |
| 1,600.0               | 0.24            | 288.34      | 1,600.0               | 4.9          | -4.1         | -2.7                    | 0.30                    | -0.01                  | -74.19                |
| 1,700.0               | 0.48            | 69.08       | 1,700.0               | 5.1          | -3.9         | -2.5                    | 0.68                    | 0.24                   | 140.74                |
| 1,800.0               | 0.80            | 276.45      | 1,800.0               | 5.3          | -4.3         | -2.7                    | 1.25                    | 0.32                   | -152.63               |
| 1,900.0               | 0.81            | 245.68      | 1,900.0               | 5.1          | -5.6         | -4.1                    | 0.43                    | 0.01                   | -30.77                |
| 2,000.0               | 1.09            | 207.36      | 1,999.9               | 4.0          | -6.7         | -5.4                    | 0.68                    | 0.28                   | -38.32                |
| 2,100.0               | 0.67            | 150.91      | 2,099.9               | 2.6          | -6.8         | -5.9                    | 0.91                    | -0.42                  | -56.45                |
| 2,200.0               | 0.69            | 184.59      | 2,199.9               | 1.5          | -6.6         | -6.0                    | 0.39                    | 0.02                   | 33.68                 |
| 2,300.0               | 0.92            | 136.63      | 2,299.9               | 0.3          | -6.1         | -5.8                    | 0.69                    | 0.23                   | -47.96                |
| 2,400.0               | 0.59            | 84.71       | 2,399.9               | -0.2         | -5.0         | -4.9                    | 0.72                    | -0.33                  | -51.92                |
| 2,500.0               | 0.18            | 246.12      | 2,499.9               | -0.2         | -4.7         | -4.6                    | 0.76                    | -0.41                  | 161.41                |
| 2,600.0               | 0.63            | 96.30       | 2,599.9               | -0.4         | -4.2         | -4.2                    | 0.79                    | 0.45                   | -149.82               |
| 2,700.0               | 0.55            | 17.09       | 2,699.9               | 0.0          | -3.6         | -3.4                    | 0.75                    | -0.08                  | -79.21                |
| 2,800.0               | 0.73            | 56.45       | 2,799.9               | 0.9          | -2.9         | -2.6                    | 0.46                    | 0.18                   | 39.36                 |
| 2,900.0               | 0.50            | 93.22       | 2,899.9               | 1.2          | -1.9         | -1.6                    | 0.45                    | -0.23                  | 36.77                 |
| 3,000.0               | 0.29            | 91.84       | 2,999.9               | 1.1          | -1.2         | -0.9                    | 0.21                    | -0.21                  | -1.38                 |
| 3,100.0               | 0.31            | 35.57       | 3,099.9               | 1.4          | -0.8         | -0.4                    | 0.28                    | 0.02                   | -56.27                |
| 3,200.0               | 0.79            | 78.22       | 3,199.9               | 1.7          | 0.0          | 0.5                     | 0.60                    | 0.48                   | 42.65                 |
| 3,300.0               | 0.47            | 6.54        | 3,299.9               | 2.3          | 0.7          | 1.3                     | 0.78                    | -0.32                  | -71.68                |
| 3,400.0               | 0.97            | 73.73       | 3,399.9               | 2.9          | 1.6          | 2.3                     | 0.90                    | 0.50                   | 67.19                 |
| 3,500.0               | 1.20            | 71.28       | 3,499.9               | 3.5          | 3.4          | 4.2                     | 0.23                    | 0.23                   | -2.45                 |
| 3,600.0               | 1.11            | 66.85       | 3,599.8               | 4.2          | 5.3          | 6.2                     | 0.13                    | -0.09                  | -4.43                 |
| 3,700.0               | 1.27            | 48.70       | 3,699.8               | 5.3          | 7.0          | 8.1                     | 0.41                    | 0.16                   | -18.15                |
| 3,800.0               | 0.92            | 37.39       | 3,799.8               | 6.7          | 8.3          | 9.8                     | 0.41                    | -0.35                  | -11.31                |
| 3,900.0               | 0.92            | 81.00       | 3,899.8               | 7.4          | 9.6          | 11.2                    | 0.68                    | 0.00                   | 43.61                 |
| 4,000.0               | 0.84            | 47.14       | 3,999.8               | 8.1          | 10.9         | 12.6                    | 0.52                    | -0.08                  | -33.86                |
| 4,100.0               | 0.36            | 85.84       | 4,099.8               | 8.6          | 11.8         | 13.6                    | 0.60                    | -0.48                  | 38.70                 |
| 4,200.0               | 0.86            | 104.50      | 4,199.8               | 8.4          | 12.8         | 14.6                    | 0.53                    | 0.50                   | 18.66                 |
| 4,300.0               | 0.28            | 331.28      | 4,299.8               | 8.5          | 13.4         | 15.2                    | 1.07                    | -0.58                  | -133.22               |
| 4,400.0               | 1.53            | 73.45       | 4,399.7               | 9.1          | 14.6         | 16.4                    | 1.61                    | 1.25                   | 102.17                |
| 4,500.0               | 1.88            | 46.14       | 4,499.7               | 10.6         | 17.1         | 19.2                    | 0.87                    | 0.35                   | -27.31                |
| 4,600.0               | 2.19            | 45.63       | 4,599.6               | 13.0         | 19.6         | 22.3                    | 0.31                    | 0.31                   | -0.51                 |
| 4,700.0               | 1.99            | 38.86       | 4,699.6               | 15.7         | 22.1         | 25.4                    | 0.32                    | -0.20                  | -6.77                 |
| 4,800.0               | 2.52            | 62.25       | 4,799.5               | 18.1         | 25.1         | 28.9                    | 1.05                    | 0.53                   | 23.39                 |
| 4,900.0               | 3.32            | 75.76       | 4,899.4               | 19.8         | 29.8         | 34.0                    | 1.05                    | 0.80                   | 13.51                 |
| 5,000.0               | 5.61            | 112.29      | 4,999.1               | 18.7         | 37.2         | 40.8                    | 3.54                    | 2.29                   | 36.53                 |
| 5,100.0               | 8.86            | 123.58      | 5,098.3               | 12.6         | 48.1         | 49.7                    | 3.53                    | 3.25                   | 11.29                 |
| 5,200.0               | 12.23           | 131.54      | 5,196.6               | 1.3          | 62.5         | 60.7                    | 3.66                    | 3.37                   | 7.96                  |

|                  |                                            |                                     |                                        |
|------------------|--------------------------------------------|-------------------------------------|----------------------------------------|
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| <b>Project:</b>  | Lea County N. M. Nad (83)                  | <b>TVD Reference:</b>               | 3588 + 27 @ 3615.0usft (Patterson 220) |
| <b>Site:</b>     | Section 3-22S-34E Ram 3 B3PA State Com #1H | <b>MD Reference:</b>                | 3588 + 27 @ 3615.0usft (Patterson 220) |
| <b>Well:</b>     | Ram 3 B3PA State Com #1H                   | <b>North Reference:</b>             | Grid                                   |
| <b>Wellbore:</b> | Original Hole                              | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Design:</b>   | Original Hole                              | <b>Database:</b>                    | Stryker_EDM                            |

**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) |
|------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 5,300.0                      | 16.02           | 136.76      | 5,293.5               | -15.8        | 79.9         | 73.0                    | 3.99                    | 3.79                   | 5.22                  |
| 5,400.0                      | 19.29           | 141.58      | 5,388.8               | -38.8        | 99.6         | 86.1                    | 3.58                    | 3.27                   | 4.82                  |
| 5,495.0                      | 22.14           | 145.88      | 5,477.7               | -65.9        | 119.4        | 98.2                    | 3.40                    | 3.00                   | 4.53                  |
| <b>5495' MD Phoenix Gyro</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 5,684.0                      | 26.70           | 152.90      | 5,649.8               | -133.2       | 158.7        | 118.7                   | 2.86                    | 2.41                   | 3.71                  |
| 5,767.0                      | 25.50           | 152.60      | 5,724.3               | -165.7       | 175.4        | 126.5                   | 1.45                    | -1.45                  | -0.36                 |
| 5,862.0                      | 22.50           | 150.60      | 5,811.1               | -199.7       | 193.8        | 135.3                   | 3.27                    | -3.16                  | -2.11                 |
| 5,962.0                      | 16.80           | 155.20      | 5,905.2               | -229.5       | 209.2        | 142.6                   | 5.90                    | -5.70                  | 4.60                  |
| 5,994.0                      | 14.10           | 156.10      | 5,936.1               | -237.3       | 212.8        | 143.9                   | 8.47                    | -8.44                  | 2.81                  |
| 6,026.0                      | 11.60           | 152.20      | 5,967.2               | -243.7       | 215.8        | 145.3                   | 8.27                    | -7.81                  | -12.19                |
| 6,057.0                      | 10.20           | 153.50      | 5,997.7               | -248.9       | 218.5        | 146.5                   | 4.58                    | -4.52                  | 4.19                  |
| 6,089.0                      | 7.20            | 157.60      | 6,029.3               | -253.3       | 220.6        | 147.3                   | 9.57                    | -9.38                  | 12.81                 |
| 6,120.0                      | 3.90            | 164.70      | 6,060.2               | -256.1       | 221.6        | 147.6                   | 10.85                   | -10.65                 | 22.90                 |
| 6,152.0                      | 2.40            | 172.50      | 6,092.1               | -257.8       | 222.0        | 147.5                   | 4.86                    | -4.69                  | 24.38                 |
| 6,247.0                      | 2.10            | 343.20      | 6,187.1               | -258.1       | 221.7        | 147.2                   | 4.72                    | -0.32                  | 179.68                |
| 6,341.0                      | 4.00            | 345.80      | 6,281.0               | -253.3       | 220.4        | 147.2                   | 2.03                    | 2.02                   | 2.77                  |
| 6,435.0                      | 4.50            | 345.40      | 6,374.7               | -246.6       | 218.7        | 147.2                   | 0.53                    | 0.53                   | -0.43                 |
| 6,530.0                      | 4.60            | 344.00      | 6,469.4               | -239.3       | 216.7        | 147.2                   | 0.16                    | 0.11                   | -1.47                 |
| 6,624.0                      | 4.60            | 341.80      | 6,563.1               | -232.1       | 214.5        | 146.9                   | 0.19                    | 0.00                   | -2.34                 |
| 6,719.0                      | 4.70            | 343.30      | 6,657.8               | -224.7       | 212.2        | 146.6                   | 0.17                    | 0.11                   | 1.58                  |
| 6,813.0                      | 4.80            | 341.80      | 6,751.5               | -217.3       | 209.8        | 146.3                   | 0.17                    | 0.11                   | -1.60                 |
| 6,908.0                      | 4.60            | 341.80      | 6,846.1               | -209.9       | 207.4        | 145.8                   | 0.21                    | -0.21                  | 0.00                  |
| 7,002.0                      | 4.30            | 340.10      | 6,939.9               | -203.0       | 205.0        | 145.3                   | 0.35                    | -0.32                  | -1.81                 |
| 7,096.0                      | 4.20            | 337.80      | 7,033.6               | -196.5       | 202.5        | 144.6                   | 0.21                    | -0.11                  | -2.45                 |
| 7,190.0                      | 4.00            | 336.40      | 7,127.4               | -190.3       | 199.9        | 143.7                   | 0.24                    | -0.21                  | -1.49                 |
| 7,285.0                      | 3.70            | 336.30      | 7,222.1               | -184.5       | 197.3        | 142.7                   | 0.32                    | -0.32                  | -0.11                 |
| 7,379.0                      | 3.60            | 335.40      | 7,316.0               | -179.0       | 194.9        | 141.8                   | 0.12                    | -0.11                  | -0.96                 |
| 7,474.0                      | 4.40            | 320.80      | 7,410.7               | -173.5       | 191.3        | 139.8                   | 1.36                    | 0.84                   | -15.37                |
| 7,568.0                      | 4.40            | 313.70      | 7,504.4               | -168.2       | 186.5        | 136.5                   | 0.58                    | 0.00                   | -7.55                 |
| 7,663.0                      | 2.20            | 337.50      | 7,599.3               | -164.0       | 183.1        | 134.3                   | 2.68                    | -2.32                  | 25.05                 |
| 7,757.0                      | 1.50            | 350.90      | 7,693.2               | -161.1       | 182.2        | 134.2                   | 0.87                    | -0.74                  | 14.26                 |
| 7,852.0                      | 1.40            | 357.30      | 7,788.2               | -158.7       | 182.0        | 134.6                   | 0.20                    | -0.11                  | 6.74                  |
| 7,946.0                      | 1.20            | 356.00      | 7,882.2               | -156.6       | 181.9        | 135.0                   | 0.22                    | -0.21                  | -1.38                 |
| 8,040.0                      | 1.20            | 353.10      | 7,976.2               | -154.6       | 181.7        | 135.4                   | 0.06                    | 0.00                   | -3.09                 |
| 8,134.0                      | 1.70            | 316.80      | 8,070.1               | -152.7       | 180.6        | 134.8                   | 1.09                    | 0.53                   | -38.62                |
| 8,229.0                      | 1.80            | 305.50      | 8,165.1               | -150.8       | 178.4        | 133.2                   | 0.38                    | 0.11                   | -11.89                |
| 8,323.0                      | 1.80            | 307.10      | 8,259.0               | -149.0       | 176.1        | 131.4                   | 0.05                    | 0.00                   | 1.70                  |
| 8,418.0                      | 1.70            | 307.00      | 8,354.0               | -147.3       | 173.7        | 129.6                   | 0.11                    | -0.11                  | -0.11                 |
| 8,512.0                      | 1.80            | 299.10      | 8,448.0               | -145.7       | 171.3        | 127.7                   | 0.28                    | 0.11                   | -8.40                 |
| 8,607.0                      | 2.20            | 296.80      | 8,542.9               | -144.2       | 168.4        | 125.2                   | 0.43                    | 0.42                   | -2.42                 |
| 8,702.0                      | 2.00            | 262.70      | 8,637.8               | -143.5       | 165.1        | 122.2                   | 1.31                    | -0.21                  | -35.89                |
| 8,796.0                      | 2.20            | 272.30      | 8,731.8               | -143.7       | 161.7        | 118.9                   | 0.43                    | 0.21                   | 10.21                 |
| 8,891.0                      | 1.90            | 254.90      | 8,826.7               | -144.0       | 158.4        | 115.6                   | 0.72                    | -0.32                  | -18.32                |

|                  |                                            |                                     |                                        |
|------------------|--------------------------------------------|-------------------------------------|----------------------------------------|
| <b>Company:</b>  | Mewbourne Oil Company                      | <b>Local Co-ordinate Reference:</b> | Well Ram 3 B3PA State Com #1H          |
| <b>Project:</b>  | Lea County N. M. Nad (83)                  | <b>TVD Reference:</b>               | 3588 + 27 @ 3615.0usft (Patterson 220) |
| <b>Site:</b>     | Section 3-22S-34E Ram 3 B3PA State Com #1H | <b>MD Reference:</b>                | 3588 + 27 @ 3615.0usft (Patterson 220) |
| <b>Well:</b>     | Ram 3 B3PA State Com #1H                   | <b>North Reference:</b>             | Grid                                   |
| <b>Wellbore:</b> | Original Hole                              | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Design:</b>   | Original Hole                              | <b>Database:</b>                    | Stryker_EDM                            |

**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) |
|-----------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 8,985.0                           | 2.20            | 232.30      | 8,920.7               | -145.5       | 155.4        | 112.4                   | 0.91                    | 0.32                   | -24.04                |
| 9,079.0                           | 1.80            | 227.90      | 9,014.6               | -147.6       | 152.9        | 109.4                   | 0.46                    | -0.43                  | -4.68                 |
| 9,174.0                           | 1.50            | 230.00      | 9,109.6               | -149.4       | 150.8        | 106.9                   | 0.32                    | -0.32                  | 2.21                  |
| 9,268.0                           | 2.20            | 226.40      | 9,203.5               | -151.5       | 148.6        | 104.2                   | 0.75                    | 0.74                   | -3.83                 |
| 9,363.0                           | 3.40            | 218.50      | 9,298.4               | -154.9       | 145.5        | 100.4                   | 1.32                    | 1.26                   | -8.32                 |
| 9,457.0                           | 2.80            | 246.30      | 9,392.3               | -158.0       | 141.7        | 95.8                    | 1.70                    | -0.64                  | 29.57                 |
| 9,546.0                           | 1.70            | 284.60      | 9,481.2               | -158.6       | 138.4        | 92.5                    | 2.03                    | -1.24                  | 43.03                 |
| 9,640.0                           | 1.50            | 288.60      | 9,575.2               | -157.8       | 135.9        | 90.3                    | 0.24                    | -0.21                  | 4.26                  |
| 9,735.0                           | 1.60            | 282.20      | 9,670.1               | -157.1       | 133.4        | 88.1                    | 0.21                    | 0.11                   | -6.74                 |
| 9,829.0                           | 1.90            | 291.50      | 9,764.1               | -156.3       | 130.7        | 85.7                    | 0.44                    | 0.32                   | 9.89                  |
| 9,924.0                           | 2.10            | 295.30      | 9,859.0               | -155.0       | 127.7        | 83.1                    | 0.25                    | 0.21                   | 4.00                  |
| 10,019.0                          | 1.10            | 311.40      | 9,954.0               | -153.6       | 125.4        | 81.3                    | 1.14                    | -1.05                  | 16.95                 |
| 10,113.0                          | 1.10            | 290.20      | 10,048.0              | -152.7       | 123.9        | 80.0                    | 0.43                    | 0.00                   | -22.55                |
| 10,207.0                          | 1.50            | 274.00      | 10,141.9              | -152.3       | 121.8        | 78.1                    | 0.57                    | 0.43                   | -17.23                |
| 10,302.0                          | 0.70            | 288.50      | 10,236.9              | -152.1       | 120.0        | 76.5                    | 0.89                    | -0.84                  | 15.26                 |
| 10,396.0                          | 0.80            | 298.70      | 10,330.9              | -151.6       | 118.9        | 75.5                    | 0.18                    | 0.11                   | 10.85                 |
| 10,491.0                          | 0.80            | 285.40      | 10,425.9              | -151.1       | 117.7        | 74.5                    | 0.20                    | 0.00                   | -14.00                |
| 10,585.0                          | 0.80            | 241.70      | 10,519.9              | -151.2       | 116.5        | 73.3                    | 0.63                    | 0.00                   | -46.49                |
| 10,632.0                          | 1.30            | 258.50      | 10,566.9              | -151.5       | 115.6        | 72.4                    | 1.24                    | 1.06                   | 35.74                 |
| 10,668.0                          | 1.73            | 271.86      | 10,602.8              | -151.5       | 114.7        | 71.5                    | 1.55                    | 1.21                   | 37.15                 |
| <b>B.B. Ram 3 B3PA St Com #1H</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 10,673.0                          | 1.80            | 273.20      | 10,607.9              | -151.5       | 114.5        | 71.3                    | 1.55                    | 1.31                   | 26.59                 |
| 10,737.0                          | 3.40            | 317.60      | 10,671.8              | -150.1       | 112.3        | 69.5                    | 3.84                    | 2.50                   | 69.38                 |
| 10,773.0                          | 7.10            | 321.70      | 10,707.7              | -147.5       | 110.2        | 68.1                    | 10.32                   | 10.28                  | 11.39                 |
| 10,805.0                          | 12.00           | 324.00      | 10,739.2              | -143.3       | 107.0        | 66.2                    | 15.36                   | 15.31                  | 7.19                  |
| 10,836.0                          | 15.80           | 323.50      | 10,769.3              | -137.3       | 102.6        | 63.5                    | 12.26                   | 12.26                  | -1.61                 |
| 10,868.0                          | 19.00           | 323.80      | 10,799.8              | -129.6       | 96.9         | 60.0                    | 10.00                   | 10.00                  | 0.94                  |
| 10,899.0                          | 22.90           | 325.30      | 10,828.8              | -120.5       | 90.5         | 56.1                    | 12.70                   | 12.58                  | 4.84                  |
| 10,931.0                          | 26.00           | 327.30      | 10,857.9              | -109.5       | 83.2         | 51.9                    | 10.03                   | 9.69                   | 6.25                  |
| 10,962.0                          | 28.90           | 330.60      | 10,885.4              | -97.3        | 75.8         | 48.0                    | 10.56                   | 9.35                   | 10.65                 |
| 10,994.0                          | 31.70           | 337.20      | 10,913.0              | -82.8        | 68.7         | 44.9                    | 13.58                   | 8.75                   | 20.63                 |
| 11,025.0                          | 35.30           | 340.90      | 10,938.9              | -66.8        | 62.7         | 43.2                    | 13.35                   | 11.61                  | 11.94                 |
| 11,057.0                          | 38.40           | 344.10      | 10,964.5              | -48.5        | 56.9         | 42.4                    | 11.39                   | 9.69                   | 10.00                 |
| 11,088.0                          | 42.00           | 346.10      | 10,988.2              | -29.2        | 51.8         | 42.4                    | 12.34                   | 11.61                  | 6.45                  |
| 11,119.0                          | 44.60           | 346.80      | 11,010.7              | -8.5         | 46.8         | 43.0                    | 8.53                    | 8.39                   | 2.26                  |
| 11,151.0                          | 47.40           | 347.30      | 11,033.0              | 13.9         | 41.6         | 43.8                    | 8.82                    | 8.75                   | 1.56                  |
| 11,183.0                          | 50.50           | 348.10      | 11,054.0              | 37.5         | 36.5         | 45.0                    | 9.87                    | 9.69                   | 2.50                  |
| 11,214.0                          | 53.30           | 349.90      | 11,073.1              | 61.5         | 31.9         | 46.7                    | 10.12                   | 9.03                   | 5.81                  |
| 11,246.0                          | 55.80           | 351.90      | 11,091.7              | 87.2         | 27.7         | 49.4                    | 9.32                    | 7.81                   | 6.25                  |
| 11,277.0                          | 59.00           | 354.00      | 11,108.4              | 113.1        | 24.5         | 53.0                    | 11.79                   | 10.32                  | 6.77                  |
| 11,308.0                          | 63.00           | 354.90      | 11,123.4              | 140.1        | 21.9         | 57.5                    | 13.15                   | 12.90                  | 2.90                  |
| 11,340.0                          | 67.50           | 355.40      | 11,136.8              | 169.0        | 19.5         | 62.7                    | 14.13                   | 14.06                  | 1.56                  |
| 11,372.0                          | 72.60           | 355.30      | 11,147.7              | 199.0        | 17.0         | 68.1                    | 15.94                   | 15.94                  | -0.31                 |
| 11,403.0                          | 77.60           | 355.30      | 11,155.7              | 228.9        | 14.6         | 73.4                    | 16.13                   | 16.13                  | 0.00                  |

|                  |                                            |                                     |                                        |
|------------------|--------------------------------------------|-------------------------------------|----------------------------------------|
| <b>Company:</b>  | Mewbourne Oil Company                      | <b>Local Co-ordinate Reference:</b> | Well Ram 3 B3PA State Com #1H          |
| <b>Project:</b>  | Lea County N. M. Nad (83)                  | <b>TVD Reference:</b>               | 3588 + 27 @ 3615.0usft (Patterson 220) |
| <b>Site:</b>     | Section 3-22S-34E Ram 3 B3PA State Com #1H | <b>MD Reference:</b>                | 3588 + 27 @ 3615.0usft (Patterson 220) |
| <b>Well:</b>     | Ram 3 B3PA State Com #1H                   | <b>North Reference:</b>             | Grid                                   |
| <b>Wellbore:</b> | Original Hole                              | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Design:</b>   | Original Hole                              | <b>Database:</b>                    | Stryker_EDM                            |

## 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) |
|--------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 11,435.0                 | 82.30           | 355.70      | 11,161.2              | 260.3        | 12.1         | 79.2                    | 14.74                   | 14.69                  | 1.25                  |
| 11,463.0                 | 87.00           | 356.60      | 11,163.8              | 288.1        | 10.2         | 84.6                    | 17.09                   | 16.79                  | 3.21                  |
| 11,464.8                 | 87.09           | 356.61      | 11,163.9              | 289.9        | 10.1         | 85.0                    | 5.05                    | 5.00                   | 0.73                  |
| LP Ram 3 B3PA St Com #1H |                 |             |                       |              |              |                         |                         |                        |                       |
| 11,545.0                 | 91.10           | 357.20      | 11,165.2              | 369.9        | 5.8          | 101.6                   | 5.05                    | 5.00                   | 0.73                  |
| 11,639.0                 | 91.40           | 358.50      | 11,163.2              | 463.8        | 2.3          | 122.5                   | 1.42                    | 0.32                   | 1.38                  |
| 11,734.0                 | 93.80           | 0.10        | 11,158.8              | 558.7        | 1.1          | 146.0                   | 3.04                    | 2.53                   | 1.68                  |
| 11,829.0                 | 91.10           | 1.00        | 11,154.8              | 653.6        | 2.0          | 171.5                   | 3.00                    | -2.84                  | 0.95                  |
| 11,923.0                 | 91.30           | 0.80        | 11,152.8              | 747.6        | 3.5          | 197.3                   | 0.30                    | 0.21                   | -0.21                 |
| 12,017.0                 | 91.90           | 0.70        | 11,150.2              | 841.5        | 4.7          | 222.9                   | 0.65                    | 0.64                   | -0.11                 |
| 12,111.0                 | 89.80           | 0.70        | 11,148.8              | 935.5        | 5.9          | 248.3                   | 2.23                    | -2.23                  | 0.00                  |
| 12,206.0                 | 88.50           | 0.50        | 11,150.2              | 1,030.5      | 6.9          | 273.9                   | 1.38                    | -1.37                  | -0.21                 |
| 12,301.0                 | 88.30           | 0.10        | 11,152.9              | 1,125.5      | 7.4          | 299.1                   | 0.47                    | -0.21                  | -0.42                 |
| 12,396.0                 | 91.20           | 359.00      | 11,153.3              | 1,220.4      | 6.6          | 323.0                   | 3.26                    | 3.05                   | -1.16                 |
| 12,490.0                 | 90.50           | 359.10      | 11,151.9              | 1,314.4      | 5.1          | 345.8                   | 0.75                    | -0.74                  | 0.11                  |
| 12,584.0                 | 89.50           | 358.90      | 11,151.9              | 1,408.4      | 3.4          | 368.6                   | 1.08                    | -1.06                  | -0.21                 |
| 12,679.0                 | 91.40           | 357.80      | 11,151.1              | 1,503.4      | 0.7          | 390.6                   | 2.31                    | 2.00                   | -1.16                 |
| 12,774.0                 | 91.00           | 357.90      | 11,149.1              | 1,598.3      | -2.9         | 411.8                   | 0.43                    | -0.42                  | 0.11                  |
| 12,869.0                 | 90.10           | 357.90      | 11,148.2              | 1,693.2      | -6.3         | 433.1                   | 0.95                    | -0.95                  | 0.00                  |
| 12,963.0                 | 91.70           | 358.40      | 11,146.8              | 1,787.1      | -9.4         | 454.5                   | 1.78                    | 1.70                   | 0.53                  |
| 13,058.0                 | 90.50           | 357.80      | 11,144.9              | 1,882.1      | -12.5        | 476.1                   | 1.41                    | -1.26                  | -0.63                 |
| 13,153.0                 | 92.90           | 359.70      | 11,142.1              | 1,977.0      | -14.6        | 498.7                   | 3.22                    | 2.53                   | 2.00                  |
| 13,248.0                 | 88.20           | 358.80      | 11,141.2              | 2,072.0      | -15.8        | 522.1                   | 5.04                    | -4.95                  | -0.95                 |
| 13,343.0                 | 91.10           | 0.20        | 11,141.8              | 2,166.9      | -16.7        | 546.0                   | 3.39                    | 3.05                   | 1.47                  |
| 13,439.0                 | 92.50           | 0.70        | 11,138.8              | 2,262.9      | -15.9        | 571.6                   | 1.55                    | 1.46                   | 0.52                  |
| 13,534.0                 | 92.40           | 1.10        | 11,134.7              | 2,357.8      | -14.4        | 597.6                   | 0.43                    | -0.11                  | 0.42                  |
| 13,629.0                 | 92.70           | 359.70      | 11,130.5              | 2,452.7      | -13.8        | 622.9                   | 1.51                    | 0.32                   | -1.47                 |
| 13,723.0                 | 90.30           | 0.10        | 11,128.0              | 2,546.6      | -13.9        | 647.1                   | 2.59                    | -2.55                  | 0.43                  |
| 13,819.0                 | 92.60           | 0.80        | 11,125.6              | 2,642.6      | -13.2        | 672.7                   | 2.50                    | 2.40                   | 0.73                  |
| 13,914.0                 | 91.10           | 0.90        | 11,122.5              | 2,737.5      | -11.8        | 698.7                   | 1.58                    | -1.58                  | 0.11                  |
| 14,008.0                 | 89.20           | 0.30        | 11,122.3              | 2,831.5      | -10.8        | 724.0                   | 2.12                    | -2.02                  | -0.64                 |
| 14,102.0                 | 91.60           | 0.70        | 11,121.6              | 2,925.5      | -10.0        | 749.2                   | 2.59                    | 2.55                   | 0.43                  |
| 14,197.0                 | 90.50           | 1.30        | 11,119.9              | 3,020.5      | -8.3         | 775.4                   | 1.32                    | -1.16                  | 0.63                  |
| 14,292.0                 | 89.90           | 0.10        | 11,119.6              | 3,115.5      | -7.1         | 801.2                   | 1.41                    | -0.63                  | -1.26                 |
| 14,386.0                 | 88.40           | 1.80        | 11,120.9              | 3,209.4      | -5.6         | 827.1                   | 2.41                    | -1.60                  | 1.81                  |
| 14,481.0                 | 88.40           | 2.50        | 11,123.6              | 3,304.3      | -2.0         | 855.1                   | 0.74                    | 0.00                   | 0.74                  |
| 14,575.0                 | 89.10           | 0.90        | 11,125.6              | 3,398.3      | 0.8          | 882.2                   | 1.86                    | 0.74                   | -1.70                 |
| 14,669.0                 | 93.00           | 0.10        | 11,123.9              | 3,492.2      | 1.6          | 907.3                   | 4.24                    | 4.15                   | -0.85                 |
| 14,764.0                 | 92.90           | 358.40      | 11,119.0              | 3,587.1      | 0.3          | 930.8                   | 1.79                    | -0.11                  | -1.79                 |
| 14,859.0                 | 90.20           | 359.00      | 11,116.5              | 3,682.0      | -1.8         | 953.3                   | 2.91                    | -2.84                  | 0.63                  |
| 14,953.0                 | 90.20           | 358.50      | 11,116.1              | 3,776.0      | -3.9         | 975.7                   | 0.53                    | 0.00                   | -0.53                 |
| 15,047.0                 | 89.60           | 358.50      | 11,116.3              | 3,870.0      | -6.3         | 997.7                   | 0.64                    | -0.64                  | 0.00                  |
| 15,142.0                 | 90.80           | 358.90      | 11,116.0              | 3,964.9      | -8.5         | 1,020.2                 | 1.33                    | 1.26                   | 0.42                  |

|                  |                                            |                                     |                                        |
|------------------|--------------------------------------------|-------------------------------------|----------------------------------------|
| <b>Company:</b>  | Mewbourne Oil Company                      | <b>Local Co-ordinate Reference:</b> | Well Ram 3 B3PA State Com #1H          |
| <b>Project:</b>  | Lea County N. M. Nad (83)                  | <b>TVD Reference:</b>               | 3588 + 27 @ 3615.0usft (Patterson 220) |
| <b>Site:</b>     | Section 3-22S-34E Ram 3 B3PA State Com #1H | <b>MD Reference:</b>                | 3588 + 27 @ 3615.0usft (Patterson 220) |
| <b>Well:</b>     | Ram 3 B3PA State Com #1H                   | <b>North Reference:</b>             | Grid                                   |
| <b>Wellbore:</b> | Original Hole                              | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Design:</b>   | Original Hole                              | <b>Database:</b>                    | Stryker_EDM                            |

**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) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 15,236.0              | 91.60           | 359.00      | 11,114.0              | 4,058.9      | -10.2        | 1,042.9                 | 0.86                    | 0.85                   | 0.11                  |
| 15,331.0              | 89.90           | 358.40      | 11,112.8              | 4,153.9      | -12.4        | 1,065.5                 | 1.90                    | -1.79                  | -0.63                 |
| 15,425.0              | 92.00           | 359.10      | 11,111.2              | 4,247.8      | -14.4        | 1,087.9                 | 2.35                    | 2.23                   | 0.74                  |
| 15,519.0              | 89.80           | 359.30      | 11,109.7              | 4,341.8      | -15.7        | 1,111.0                 | 2.35                    | -2.34                  | 0.21                  |
| 15,614.0              | 87.60           | 359.50      | 11,111.9              | 4,436.8      | -16.7        | 1,134.7                 | 2.33                    | -2.32                  | 0.21                  |
| 15,708.0              | 89.90           | 358.50      | 11,113.9              | 4,530.7      | -18.4        | 1,157.5                 | 2.67                    | 2.45                   | -1.06                 |
| 15,802.0              | 90.80           | 357.70      | 11,113.4              | 4,624.7      | -21.5        | 1,178.8                 | 1.28                    | 0.96                   | -0.85                 |
| 15,897.0              | 90.30           | 357.00      | 11,112.4              | 4,719.6      | -25.9        | 1,199.2                 | 0.91                    | -0.53                  | -0.74                 |
| 15,927.0              | 90.90           | 357.00      | 11,112.1              | 4,749.5      | -27.4        | 1,205.4                 | 2.00                    | 2.00                   | 0.00                  |
| 15,980.0              | 90.90           | 357.00      | 11,111.3              | 4,802.4      | -30.2        | 1,216.5                 | 0.00                    | 0.00                   | 0.00                  |

15980' MD Projected to Bit - PBHL Ram 3 B3PA St Com 1H

**Design Annotations**

| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates<br>+N/-S (usft) | +E/-W (usft) | Comment                    |
|-----------------------|-----------------------|-----------------------------------|--------------|----------------------------|
| 5,495.0               | 5,477.7               | -65.9                             | 119.4        | 5495' MD Phoenix Gyro      |
| 15,980.0              | 11,111.3              | 4,802.4                           | -30.2        | 15980' MD Projected to Bit |



COMPANY: Mewbourne Oil Company  
WELL: Ram 3 B3PA St Com #1H  
COUNTY: Lea County N. M. Nad (83)  
DATUM: North American Datum 1983  
RIG: Patterson 220



OFFICE: 936.582.7296

GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.37°

GEODETTIC ZONE: New Mexico Eastern Zone  
3588 + 27 @ 3615.0usft (Patterson 220)

GROUND ELEVATION: 3588.0

| +N-S | +E-W | Northing  | Easting   | Latitude         | Longitude        | Slot |
|------|------|-----------|-----------|------------------|------------------|------|
| 0.0  | 0.0  | 515483.40 | 813657.80 | 32° 24' 50.546 N | 103° 27' 3.144 W |      |

PLAN SECTIONS

| Sec | MD      | Inc   | Azi    | TVD     | +N-S   | +E-W  | Dleg  | TFace   | VSet   | Target                    |
|-----|---------|-------|--------|---------|--------|-------|-------|---------|--------|---------------------------|
| 1   | 5495.0  | 22.14 | 145.88 | 5477.7  | -65.9  | 119.4 | 0.00  | 0.00    | -66.4  |                           |
| 2   | 5684.0  | 26.70 | 152.90 | 5649.8  | -133.2 | 158.7 | 2.86  | 35.71   | -133.9 |                           |
| 3   | 5767.0  | 25.50 | 152.60 | 5724.3  | -165.7 | 175.4 | 1.45  | -173.86 | -166.4 |                           |
| 4   | 5862.0  | 22.50 | 150.60 | 5811.1  | -199.7 | 193.8 | 3.27  | -165.74 | -200.5 |                           |
| 5   | 6000.0  | 17.00 | 155.00 | 5940.9  | -241.0 | 215.3 | 4.13  | 166.93  | -241.9 |                           |
| 6   | 6200.0  | 0.00  | 0.00   | 6138.0  | -267.7 | 227.7 | 8.50  | 180.00  | -268.6 |                           |
| 7   | 6500.0  | 4.50  | 345.00 | 6437.7  | -256.3 | 224.7 | 1.50  | 345.00  | -257.2 |                           |
| 8   | 7200.0  | 4.50  | 345.00 | 7135.5  | -203.3 | 210.5 | 0.00  | 0.00    | -204.1 |                           |
| 9   | 7400.0  | 4.50  | 325.00 | 7334.9  | -189.3 | 203.9 | 0.78  | -99.97  | -190.1 |                           |
| 10  | 7700.0  | 4.50  | 300.00 | 7634.0  | -173.8 | 187.0 | 0.65  | -102.46 | -174.5 |                           |
| 11  | 7800.0  | 0.00  | 0.00   | 7833.8  | -169.8 | 180.2 | 2.25  | 180.00  | -170.6 |                           |
| 12  | 10680.0 | 0.00  | 0.00   | 10613.8 | -169.8 | 180.2 | 0.00  | 0.00    | -170.6 |                           |
| 13  | 10837.6 | 20.04 | 281.51 | 10768.2 | -164.4 | 153.5 | 12.72 | 281.51  | -165.0 |                           |
| 14  | 11519.2 | 90.76 | 359.65 | 11162.0 | 289.8  | 8.1   | 12.72 | 78.59   | 289.8  | LP Ram 3 B3PA St Com #1H  |
| 15  | 16037.4 | 90.76 | 359.65 | 11102.0 | 4807.5 | -19.2 | 0.00  | 0.00    | 4807.5 | PBHL Ram 3 B3PA St Com 1H |

SHL: 205' FSL: 510' FEL  
Section 3-22S-34E  
PBHL: 330' FNL: 500' FEL  
Section 3-22S-34E

HOBBS OGD  
AUG 14 2018  
RECEIVED

