



**PHOENIX**  
**TECHNOLOGY SERVICES**

July 12, 2017

Oil Conservation Division  
State of New Mexico  
811 S. First St.  
Artesia, New Mexico 88210

Dear District 2 - Artesia

Attention: Regulatory Department

Re: Marathon Oil  
Kyle 34 Federal #5H  
Eddy County, New Mexico  
API #30-015-43295  
Job No. 60399

**NM OIL CONSERVATION**

ARTESIA DISTRICT

JUL 17 2017

RECEIVED

Enclosed please find the Survey Data Certification, and the original Plat and one copy of the Survey Report performed on the above referenced Well by Phoenix Technology Services, Inc. (P-5 No. 664171). Other information required by your office is as follows:

| Name & Title of Surveyor | Drain Hole Number | Surveyed Depths |        | Dates Performed |        | Type of Survey |
|--------------------------|-------------------|-----------------|--------|-----------------|--------|----------------|
|                          |                   | From            | To     | Start           | End    |                |
| Jack Miller              | 5H                | 536             | 14,291 | 6/14/17         | 7/1/17 | MWD            |

A certified plat on which the bottom hole location is oriented both to the surface location and to the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Best Regards,

*Brittany Carley*

Brittany Carley  
Operations Administrator

## SURVEY DATA CERTIFICATION



**PHOENIX**  
TECHNOLOGY SERVICES

Job #: 60399  
Client: Marathon Oil  
County & State: Eddy, New Mexico  
Well: Kyle 34 Federal #5H  
API No: 30-015-43295  
Proposed Direction: 359.26

### TIE-IN DATA

| MD                   | TVD    | INC | AZM    | N/-S | E/-W  | DATA SOURCE |
|----------------------|--------|-----|--------|------|-------|-------------|
| 460.00               | 459.98 | .69 | 192.10 | 2.08 | -1.87 | Gyro        |
| Data Source Company: |        |     |        |      |       | Gyrodata    |

### SURVEY DATA

| First Survey Date | First Survey Depth | INC   | AZM     |
|-------------------|--------------------|-------|---------|
| 14-Jun-17         | 536 ft             | 0.56° | 161.65° |

| Last Survey Date | Last Survey Depth | INC    | AZM   |
|------------------|-------------------|--------|-------|
| 1-Jul-17         | 14,291 ft         | 89.77° | 2.82° |

| Survey Instrument Type |
|------------------------|
| Phoenix MWD            |

| Projected TD Survey Date | Projected TD Survey Depth | INC    | AZM   |
|--------------------------|---------------------------|--------|-------|
| 1-Jul-17                 | 14,337 ft                 | 89.77° | 2.82° |

### CORRECTION INFORMATION

|                           |      |         |
|---------------------------|------|---------|
| Magnetic Declination Used | 7.33 | degrees |
| Grid Convergence Used     | 0.14 | degrees |
| Total Correction          | 7.19 | degrees |

| Corrected to True/Grid North |
|------------------------------|
| Grid                         |

TO THE BEST OF MY KNOWLEDGE, I  
CERTIFY THIS SURVEY DATA TO BE TRUE  
AND CORRECT.

Jack Miller  
Signature

July 1, 2017  
Date



## **Marathon Oil EF LLC**

**Eddy County, NM (NAD83)  
Kyle 34 Federal  
#5H**

**OH / Job #60399**

**NM OIL CONSERVATION  
ARTESIA DISTRICT**

**JUL 17 2017**

**RECEIVED**

**Design: Surveys (Patterson 244)**

## **Standard Survey Report**

**02 July, 2017**



**Company:** Marathon Oil EF LLC  
**Project:** Eddy County, NM (NAD83)  
**Site:** Kyle 34 Federal  
**Well:** #5H  
**Wellbore:** OH / Job #60399  
**Design:** Surveys (Patterson 244)

**Local Co-ordinate Reference:** Well #5H  
**TVD Reference:** GL + KB @ 3021.50usft (Patterson 244)  
**MD Reference:** GL + KB @ 3021.50usft (Patterson 244)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** Compass 5000 GCR

|                    |                           |                      |                |
|--------------------|---------------------------|----------------------|----------------|
| <b>Project</b>     | Eddy County, NM (NAD83)   |                      |                |
| <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   |                      |                |

**Site** Kyle 34 Federal

**Site Position:** **From:** Map **Northing:** 424,643.00 usft **Latitude:** 32° 10' 1.72920 N  
**Position Uncertainty:** 0.00 usft **Easting:** 622,917.10 usft **Longitude:** 104° 4' 10.86310 W  
**Slot Radius:** 13-3/16 " **Grid Convergence:** 0.14 °

**Well** #5H  
**Well Position** **+N/-S** 0.00 usft **Northing:** 424,643.00 usft **Latitude:** 32° 10' 1.72920 N  
**+E/-W** 0.00 usft **Easting:** 622,917.10 usft **Longitude:** 104° 4' 10.86310 W  
**Position Uncertainty** 0.00 usft **Wellhead Elevation:** 0.00 usft **Ground Level:** 2,993.00 usft

**Wellbore** OH / Job #60399

| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
|-----------|------------|-------------|-----------------|---------------|---------------------|
|           | HDGM       | 6/30/2017   | 7.25            | 59.98         | 48,095              |

**Design** Surveys (Patterson 244)

**Audit Notes:**

**Version:** 1.0 **Phase:** ACTUAL **Tie On Depth:** 0.00

**Vertical Section:** **Depth From (TVD) (usft)** 0.00 **+N/-S (usft)** 0.00 **+E/-W (usft)** 0.00 **Direction (°)** 359.26

**Survey Program** **Date** 7/2/2017

| From (usft) | To (usft) | Survey (Wellbore)                      | Tool Name   | Description                                  |
|-------------|-----------|----------------------------------------|-------------|----------------------------------------------|
| 118.00      | 460.00    | Phoenix Gyro Surveys (OH / Job #60399) | PHX_SPT_GTD | PHX Continuous north-seeking gyro            |
| 536.00      | 2,604.00  | Phoenix MWD Surveys (IFR + MSA) (OH    | MWD+IFR1+MS | OWSG Rev. 2 MWD + IFR1 + Multi-Station Corre |
| 2,736.00    | 14,337.00 | Phoenix MWD Surveys (HDGM+MSA) (OH     | MWD+HDGM+MS | OWSG Rev.2 MWD + HDGM + Multi-Station Con    |

### 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) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 0.00                  | 0.00            | 0.00        | 0.00                  | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 118.00                | 0.41            | 224.78      | 118.00                | -0.30        | -0.30        | -0.30                   | 0.35                    | 0.35                   | 0.00                  |
| 210.00                | 0.86            | 343.37      | 210.00                | 0.13         | -0.73        | 0.14                    | 1.21                    | 0.49                   | 128.90                |
| 302.00                | 1.01            | 344.30      | 301.98                | 1.57         | -1.14        | 1.59                    | 0.16                    | 0.16                   | 1.01                  |
| 393.00                | 0.32            | 287.37      | 392.98                | 2.42         | -1.60        | 2.44                    | 0.96                    | -0.76                  | -62.56                |
| 460.00                | 0.69            | 192.10      | 459.98                | 2.08         | -1.87        | 2.10                    | 1.17                    | 0.55                   | -142.19               |
| <b>Tie In</b>         |                 |             |                       |              |              |                         |                         |                        |                       |
| 536.00                | 0.56            | 161.65      | 535.97                | 1.28         | -1.85        | 1.30                    | 0.46                    | -0.17                  | -40.07                |

**Company:** Marathon Oil EF LLC  
**Project:** Eddy County, NM (NAD83)  
**Site:** Kyle 34 Federal  
**Well:** #5H  
**Wellbore:** OH / Job #60399  
**Design:** Surveys (Patterson 244)

**Local Co-ordinate Reference:** Well #5H  
**TVD Reference:** GL + KB @ 3021.50usft (Patterson 244)  
**MD Reference:** GL + KB @ 3021.50usft (Patterson 244)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** Compass 5000 GCR

### 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) |
|---------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| <b>First Phoenix MWD Survey</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 598.00                          | 0.63            | 188.66      | 597.97                | 0.66         | -1.80        | 0.68                    | 0.46                    | 0.11                   | 43.56                 |
| 690.00                          | 0.90            | 187.91      | 689.96                | -0.56        | -1.98        | -0.53                   | 0.29                    | 0.29                   | -0.82                 |
| 781.00                          | 0.69            | 188.20      | 780.95                | -1.81        | -2.15        | -1.78                   | 0.23                    | -0.23                  | 0.32                  |
| 873.00                          | 1.03            | 209.82      | 872.94                | -3.08        | -2.64        | -3.04                   | 0.50                    | 0.37                   | 23.50                 |
| 965.00                          | 0.89            | 228.16      | 964.93                | -4.27        | -3.59        | -4.22                   | 0.36                    | -0.15                  | 19.93                 |
| 1,056.00                        | 1.09            | 224.66      | 1,055.91              | -5.36        | -4.72        | -5.30                   | 0.23                    | 0.22                   | -3.85                 |
| 1,147.00                        | 1.30            | 254.52      | 1,146.90              | -6.25        | -6.33        | -6.17                   | 0.71                    | 0.23                   | 32.81                 |
| 1,239.00                        | 2.51            | 264.58      | 1,238.84              | -6.72        | -9.34        | -6.60                   | 1.36                    | 1.32                   | 10.93                 |
| 1,331.00                        | 0.23            | 330.78      | 1,330.81              | -6.75        | -11.43       | -6.60                   | 2.64                    | -2.48                  | 71.96                 |
| 1,423.00                        | 0.93            | 81.27       | 1,422.81              | -6.47        | -10.78       | -6.33                   | 1.12                    | 0.76                   | 120.10                |
| 1,515.00                        | 0.96            | 84.72       | 1,514.80              | -6.29        | -9.28        | -6.17                   | 0.07                    | 0.03                   | 3.75                  |
| 1,609.00                        | 0.97            | 66.30       | 1,608.78              | -5.90        | -7.77        | -5.79                   | 0.33                    | 0.01                   | -19.60                |
| 1,702.00                        | 0.93            | 81.43       | 1,701.77              | -5.47        | -6.30        | -5.38                   | 0.27                    | -0.04                  | 16.27                 |
| 1,797.00                        | 0.86            | 61.80       | 1,796.76              | -5.01        | -4.91        | -4.95                   | 0.33                    | -0.07                  | -20.66                |
| 1,891.00                        | 1.10            | 87.69       | 1,890.75              | -4.65        | -3.39        | -4.60                   | 0.53                    | 0.26                   | 27.54                 |
| 1,986.00                        | 1.88            | 85.06       | 1,985.71              | -4.47        | -0.92        | -4.46                   | 0.82                    | 0.82                   | -2.77                 |
| 2,080.00                        | 1.67            | 168.27      | 2,079.68              | -5.68        | 0.89         | -5.69                   | 2.51                    | -0.22                  | 88.52                 |
| 2,174.00                        | 2.36            | 190.41      | 2,173.62              | -8.93        | 0.82         | -8.94                   | 1.09                    | 0.73                   | 23.55                 |
| 2,269.00                        | 1.80            | 110.01      | 2,268.58              | -11.36       | 1.87         | -11.39                  | 2.86                    | -0.59                  | -84.63                |
| 2,364.00                        | 3.19            | 101.78      | 2,363.49              | -12.41       | 5.86         | -12.49                  | 1.51                    | 1.46                   | -8.66                 |
| 2,458.00                        | 0.90            | 192.50      | 2,457.43              | -13.67       | 8.26         | -13.77                  | 3.54                    | -2.44                  | 96.51                 |
| 2,552.00                        | 1.37            | 228.71      | 2,551.42              | -15.13       | 7.26         | -15.22                  | 0.89                    | 0.50                   | 38.52                 |
| 2,604.00                        | 1.27            | 224.04      | 2,603.40              | -15.95       | 6.39         | -16.04                  | 0.28                    | -0.19                  | -8.98                 |
| 2,736.00                        | 1.70            | 218.81      | 2,735.36              | -18.53       | 4.15         | -18.58                  | 0.34                    | 0.33                   | -3.96                 |
| 2,831.00                        | 2.33            | 223.12      | 2,830.30              | -21.04       | 1.94         | -21.06                  | 0.68                    | 0.66                   | 4.54                  |
| 2,925.00                        | 2.98            | 210.29      | 2,924.20              | -24.54       | -0.60        | -24.53                  | 0.93                    | 0.69                   | -13.65                |
| 3,020.00                        | 3.69            | 209.46      | 3,019.04              | -29.34       | -3.35        | -29.29                  | 0.75                    | 0.75                   | -0.87                 |
| 3,114.00                        | 4.53            | 193.47      | 3,112.80              | -35.58       | -5.70        | -35.51                  | 1.50                    | 0.89                   | -17.01                |
| 3,208.00                        | 5.64            | 190.51      | 3,206.42              | -43.73       | -7.41        | -43.63                  | 1.21                    | 1.18                   | -3.15                 |
| 3,303.00                        | 5.39            | 192.35      | 3,300.99              | -52.68       | -9.21        | -52.56                  | 0.32                    | -0.26                  | 1.94                  |
| 3,397.00                        | 5.85            | 185.97      | 3,394.53              | -61.76       | -10.65       | -61.62                  | 0.82                    | 0.49                   | -6.79                 |
| 3,491.00                        | 4.92            | 186.62      | 3,488.12              | -70.53       | -11.62       | -70.37                  | 0.99                    | -0.99                  | 0.69                  |
| 3,585.00                        | 6.03            | 186.99      | 3,581.69              | -79.43       | -12.68       | -79.26                  | 1.18                    | 1.18                   | 0.39                  |
| 3,680.00                        | 5.74            | 188.66      | 3,676.19              | -89.08       | -14.00       | -88.89                  | 0.35                    | -0.31                  | 1.76                  |
| 3,775.00                        | 5.68            | 187.33      | 3,770.72              | -98.44       | -15.32       | -98.23                  | 0.15                    | -0.06                  | -1.40                 |
| 3,869.00                        | 5.35            | 186.54      | 3,864.28              | -107.41      | -16.41       | -107.19                 | 0.36                    | -0.35                  | -0.84                 |
| 3,964.00                        | 5.06            | 185.54      | 3,958.89              | -115.98      | -17.32       | -115.74                 | 0.32                    | -0.31                  | -1.05                 |
| 4,059.00                        | 4.74            | 187.58      | 4,053.54              | -124.04      | -18.24       | -123.79                 | 0.38                    | -0.34                  | 2.15                  |
| 4,154.00                        | 4.72            | 188.34      | 4,148.22              | -131.80      | -19.33       | -131.54                 | 0.07                    | -0.02                  | 0.80                  |
| 4,249.00                        | 4.65            | 188.41      | 4,242.90              | -139.47      | -20.46       | -139.20                 | 0.07                    | -0.07                  | 0.07                  |
| 4,343.00                        | 4.70            | 191.00      | 4,336.59              | -147.02      | -21.75       | -146.73                 | 0.23                    | 0.05                   | 2.76                  |
| 4,437.00                        | 3.92            | 193.07      | 4,430.32              | -153.93      | -23.21       | -153.62                 | 0.85                    | -0.83                  | 2.20                  |
| 4,531.00                        | 2.99            | 184.36      | 4,524.15              | -159.51      | -24.12       | -159.18                 | 1.13                    | -0.99                  | -9.27                 |

**Company:** Marathon Oil EF LLC  
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**Site:** Kyle 34 Federal  
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**Wellbore:** OH / Job #60399  
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**Local Co-ordinate Reference:** Well #5H  
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### Survey

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|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 4,626.00              | 2.26            | 172.53      | 4,619.05              | -163.84      | -24.07       | -163.51                 | 0.95                    | -0.77                  | -12.45                |
| 4,720.00              | 0.99            | 144.56      | 4,713.01              | -166.34      | -23.36       | -166.02                 | 1.55                    | -1.35                  | -29.76                |
| 4,814.00              | 1.07            | 145.33      | 4,807.00              | -167.72      | -22.39       | -167.42                 | 0.09                    | 0.09                   | 0.82                  |
| 4,908.00              | 0.57            | 103.46      | 4,900.99              | -168.55      | -21.43       | -168.26                 | 0.80                    | -0.53                  | -44.54                |
| 5,003.00              | 0.23            | 128.55      | 4,995.99              | -168.78      | -20.83       | -168.50                 | 0.39                    | -0.36                  | 26.41                 |
| 5,097.00              | 0.35            | 145.96      | 5,089.98              | -169.13      | -20.52       | -168.85                 | 0.16                    | 0.13                   | 18.52                 |
| 5,192.00              | 0.25            | 150.77      | 5,184.98              | -169.56      | -20.25       | -169.28                 | 0.11                    | -0.11                  | 5.06                  |
| 5,286.00              | 0.37            | 214.44      | 5,278.98              | -169.99      | -20.32       | -169.71                 | 0.36                    | 0.13                   | 67.73                 |
| 5,381.00              | 0.41            | 226.61      | 5,373.98              | -170.47      | -20.75       | -170.19                 | 0.10                    | 0.04                   | 12.81                 |
| 5,475.00              | 0.51            | 201.49      | 5,467.98              | -171.09      | -21.14       | -170.80                 | 0.24                    | 0.11                   | -26.72                |
| 5,569.00              | 0.26            | 319.68      | 5,561.98              | -171.32      | -21.43       | -171.03                 | 0.72                    | -0.27                  | 125.73                |
| 5,664.00              | 0.27            | 315.06      | 5,656.97              | -171.00      | -21.73       | -170.70                 | 0.02                    | 0.01                   | -4.86                 |
| 5,758.00              | 0.01            | 37.93       | 5,750.97              | -170.83      | -21.88       | -170.53                 | 0.29                    | -0.28                  | 88.16                 |
| 5,852.00              | 0.27            | 303.98      | 5,844.97              | -170.70      | -22.06       | -170.40                 | 0.29                    | 0.28                   | -99.95                |
| 5,946.00              | 0.05            | 206.14      | 5,938.97              | -170.62      | -22.26       | -170.31                 | 0.30                    | -0.23                  | -104.09               |
| 6,041.00              | 0.46            | 165.60      | 6,033.97              | -171.02      | -22.19       | -170.72                 | 0.45                    | 0.43                   | -42.67                |
| 6,135.00              | 0.35            | 187.32      | 6,127.97              | -171.67      | -22.13       | -171.37                 | 0.20                    | -0.12                  | 23.11                 |
| 6,230.00              | 0.69            | 197.08      | 6,222.97              | -172.51      | -22.33       | -172.20                 | 0.37                    | 0.36                   | 10.27                 |
| 6,324.00              | 0.34            | 256.55      | 6,316.96              | -173.11      | -22.77       | -172.80                 | 0.63                    | -0.37                  | 63.27                 |
| 6,418.00              | 0.59            | 257.97      | 6,410.96              | -173.28      | -23.52       | -172.96                 | 0.27                    | 0.27                   | 1.51                  |
| 6,512.00              | 0.70            | 295.14      | 6,504.95              | -173.14      | -24.51       | -172.80                 | 0.45                    | 0.12                   | 39.54                 |
| 6,606.00              | 0.88            | 300.23      | 6,598.94              | -172.53      | -25.65       | -172.18                 | 0.21                    | 0.19                   | 5.41                  |
| 6,700.00              | 1.61            | 321.62      | 6,692.92              | -171.13      | -27.10       | -170.76                 | 0.91                    | 0.78                   | 22.76                 |
| 6,794.00              | 0.98            | 312.83      | 6,786.90              | -169.55      | -28.51       | -169.16                 | 0.70                    | -0.67                  | -9.35                 |
| 6,888.00              | 0.88            | 301.77      | 6,880.89              | -168.62      | -29.71       | -168.22                 | 0.22                    | -0.11                  | -11.77                |
| 6,981.00              | 2.30            | 319.18      | 6,973.85              | -166.83      | -31.54       | -166.41                 | 1.60                    | 1.53                   | 18.72                 |
| 7,076.00              | 2.54            | 334.66      | 7,068.76              | -163.49      | -33.68       | -163.04                 | 0.73                    | 0.25                   | 16.29                 |
| 7,170.00              | 2.34            | 334.62      | 7,162.68              | -159.87      | -35.40       | -159.40                 | 0.21                    | -0.21                  | -0.04                 |
| 7,264.00              | 0.79            | 279.11      | 7,256.64              | -158.04      | -36.86       | -157.54                 | 2.13                    | -1.65                  | -59.05                |
| 7,358.00              | 0.68            | 221.42      | 7,350.64              | -158.35      | -37.87       | -157.85                 | 0.76                    | -0.12                  | -61.37                |
| 7,453.00              | 1.13            | 228.04      | 7,445.63              | -159.40      | -38.94       | -158.88                 | 0.49                    | 0.47                   | 6.97                  |
| 7,547.00              | 0.33            | 303.75      | 7,539.62              | -159.87      | -39.85       | -159.34                 | 1.17                    | -0.85                  | 80.54                 |
| 7,641.00              | 1.85            | 5.97        | 7,633.60              | -158.21      | -39.92       | -157.68                 | 1.83                    | 1.62                   | 66.19                 |
| 7,735.00              | 2.80            | 32.83       | 7,727.53              | -154.77      | -38.52       | -154.26                 | 1.51                    | 1.01                   | 28.57                 |
| 7,831.00              | 0.29            | 40.92       | 7,823.48              | -152.62      | -37.09       | -152.12                 | 2.62                    | -2.61                  | 8.43                  |
| 7,925.00              | 0.55            | 94.65       | 7,917.48              | -152.47      | -36.48       | -151.99                 | 0.47                    | 0.28                   | 57.16                 |
| 8,019.00              | 1.32            | 76.21       | 8,011.47              | -152.25      | -34.98       | -151.79                 | 0.87                    | 0.82                   | -19.62                |
| 8,114.00              | 1.70            | 117.06      | 8,106.44              | -152.63      | -32.66       | -152.20                 | 1.17                    | 0.40                   | 43.00                 |
| 8,208.00              | 1.60            | 138.00      | 8,200.40              | -154.24      | -30.54       | -153.83                 | 0.65                    | -0.11                  | 22.28                 |
| 8,302.00              | 1.44            | 140.00      | 8,294.37              | -156.12      | -28.91       | -155.73                 | 0.18                    | -0.17                  | 2.13                  |
| 8,396.00              | 1.55            | 178.06      | 8,388.34              | -158.30      | -28.10       | -157.92                 | 1.04                    | 0.12                   | 40.49                 |
| 8,490.00              | 1.18            | 192.31      | 8,482.31              | -160.51      | -28.27       | -160.13                 | 0.53                    | -0.39                  | 15.16                 |
| 8,585.00              | 1.79            | 173.42      | 8,577.28              | -162.94      | -28.31       | -162.56                 | 0.82                    | 0.64                   | -19.88                |

**Company:** Marathon Oil EF LLC  
**Project:** Eddy County, NM (NAD83)  
**Site:** Kyle 34 Federal  
**Well:** #5H  
**Wellbore:** OH / Job #60399  
**Design:** Surveys (Patterson 244)

**Local Co-ordinate Reference:** Well #5H  
**TVD Reference:** GL + KB @ 3021.50usft (Patterson 244)  
**MD Reference:** GL + KB @ 3021.50usft (Patterson 244)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** Compass 5000 GCR

### 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) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 8,679.00              | 2.23            | 177.76      | 8,671.22              | -166.23      | -28.07       | -165.85                 | 0.49                    | 0.47                   | 4.62                  |
| 8,773.00              | 1.25            | 105.87      | 8,765.18              | -168.34      | -27.01       | -167.97                 | 2.33                    | -1.04                  | -76.48                |
| 8,868.00              | 2.67            | 104.81      | 8,860.13              | -169.19      | -23.87       | -168.86                 | 1.50                    | 1.49                   | -1.12                 |
| 8,962.00              | 1.75            | 120.90      | 8,954.06              | -170.48      | -20.52       | -170.20                 | 1.17                    | -0.98                  | 17.12                 |
| 8,974.00              | 1.75            | 126.69      | 8,966.05              | -170.69      | -20.22       | -170.41                 | 1.47                    | 0.00                   | 48.25                 |
| 9,021.00              | 1.68            | 116.05      | 9,013.03              | -171.42      | -19.02       | -171.16                 | 0.69                    | -0.15                  | -22.64                |
| 9,068.00              | 2.87            | 85.23       | 9,059.99              | -171.62      | -17.23       | -171.38                 | 3.55                    | 2.53                   | -65.57                |
| 9,115.00              | 6.46            | 17.94       | 9,106.86              | -169.01      | -15.24       | -168.80                 | 12.70                   | 7.64                   | -143.17               |
| 9,162.00              | 11.94           | 358.65      | 9,153.24              | -161.62      | -14.54       | -161.42                 | 13.22                   | 11.66                  | -41.04                |
| 9,209.00              | 17.86           | 356.53      | 9,198.64              | -149.56      | -15.09       | -149.35                 | 12.65                   | 12.60                  | -4.51                 |
| 9,256.00              | 23.29           | 359.00      | 9,242.63              | -133.06      | -15.69       | -132.85                 | 11.70                   | 11.55                  | 5.26                  |
| 9,303.00              | 28.25           | 0.26        | 9,284.94              | -112.64      | -15.81       | -112.42                 | 10.62                   | 10.55                  | 2.68                  |
| 9,350.00              | 32.53           | 0.38        | 9,325.48              | -88.87       | -15.67       | -88.65                  | 9.11                    | 9.11                   | 0.26                  |
| 9,397.00              | 37.69           | 358.36      | 9,363.91              | -61.85       | -16.00       | -61.64                  | 11.25                   | 10.98                  | -4.30                 |
| 9,445.00              | 43.14           | 358.15      | 9,400.45              | -30.75       | -16.95       | -30.53                  | 11.36                   | 11.35                  | -0.44                 |
| 9,492.00              | 46.65           | 358.34      | 9,433.73              | 2.40         | -17.96       | 2.63                    | 7.47                    | 7.47                   | 0.40                  |
| 9,539.00              | 50.42           | 0.26        | 9,464.85              | 37.61        | -18.38       | 37.84                   | 8.58                    | 8.02                   | 4.09                  |
| 9,586.00              | 54.43           | 0.60        | 9,493.51              | 74.85        | -18.09       | 75.08                   | 8.55                    | 8.53                   | 0.72                  |
| 9,622.00              | 57.80           | 0.31        | 9,513.58              | 104.73       | -17.86       | 104.95                  | 9.38                    | 9.36                   | -0.80                 |
| <b>FTP</b>            |                 |             |                       |              |              |                         |                         |                        |                       |
| 9,633.00              | 58.83           | 0.23        | 9,519.35              | 114.09       | -17.81       | 114.31                  | 9.38                    | 9.36                   | -0.76                 |
| 9,680.00              | 61.94           | 359.93      | 9,542.58              | 154.94       | -17.76       | 155.16                  | 6.64                    | 6.62                   | -0.64                 |
| 9,727.00              | 64.50           | 359.43      | 9,563.75              | 196.90       | -17.99       | 197.11                  | 5.53                    | 5.45                   | -1.06                 |
| 9,808.00              | 68.35           | 359.20      | 9,596.14              | 271.12       | -18.88       | 271.34                  | 4.76                    | 4.75                   | -0.28                 |
| 9,855.00              | 71.77           | 359.59      | 9,612.17              | 315.29       | -19.35       | 315.52                  | 7.32                    | 7.28                   | 0.83                  |
| 9,902.00              | 74.35           | 358.03      | 9,625.86              | 360.24       | -20.29       | 360.47                  | 6.34                    | 5.49                   | -3.32                 |
| 9,949.00              | 79.11           | 355.71      | 9,636.65              | 405.90       | -22.79       | 406.16                  | 11.21                   | 10.13                  | -4.94                 |
| 9,996.00              | 82.37           | 356.92      | 9,644.21              | 452.18       | -25.77       | 452.48                  | 7.39                    | 6.94                   | 2.57                  |
| 10,043.00             | 86.94           | 356.80      | 9,648.59              | 498.89       | -28.33       | 499.22                  | 9.73                    | 9.72                   | -0.26                 |
| 10,090.00             | 89.72           | 357.20      | 9,649.96              | 545.80       | -30.79       | 546.16                  | 5.98                    | 5.91                   | 0.85                  |
| 10,185.00             | 88.76           | 358.34      | 9,651.22              | 640.72       | -34.49       | 641.11                  | 1.57                    | -1.01                  | 1.20                  |
| 10,278.00             | 90.34           | 358.88      | 9,651.95              | 733.69       | -36.74       | 734.10                  | 1.80                    | 1.70                   | 0.58                  |
| 10,373.00             | 90.16           | 2.28        | 9,651.53              | 828.67       | -35.78       | 829.06                  | 3.58                    | -0.19                  | 3.58                  |
| 10,467.00             | 89.83           | 2.66        | 9,651.54              | 922.58       | -31.73       | 922.91                  | 0.54                    | -0.35                  | 0.40                  |
| 10,560.00             | 91.71           | 3.07        | 9,650.29              | 1,015.45     | -27.08       | 1,015.72                | 2.07                    | 2.02                   | 0.44                  |
| 10,655.00             | 90.18           | 2.62        | 9,648.72              | 1,110.32     | -22.37       | 1,110.52                | 1.68                    | -1.61                  | -0.47                 |
| 10,749.00             | 88.72           | 359.69      | 9,649.63              | 1,204.28     | -20.47       | 1,204.45                | 3.48                    | -1.55                  | -3.12                 |
| 10,843.00             | 88.76           | 359.50      | 9,651.69              | 1,298.26     | -21.14       | 1,298.42                | 0.21                    | 0.04                   | -0.20                 |
| 10,937.00             | 89.90           | 358.24      | 9,652.79              | 1,392.23     | -22.99       | 1,392.41                | 1.81                    | 1.21                   | -1.34                 |
| 11,031.00             | 88.47           | 357.51      | 9,654.13              | 1,486.15     | -26.48       | 1,486.37                | 1.71                    | -1.52                  | -0.78                 |
| 11,125.00             | 89.74           | 358.85      | 9,655.60              | 1,580.09     | -29.46       | 1,580.34                | 1.96                    | 1.35                   | 1.43                  |
| 11,218.00             | 90.25           | 359.14      | 9,655.61              | 1,673.07     | -31.09       | 1,673.34                | 0.63                    | 0.55                   | 0.31                  |
| 11,312.00             | 90.82           | 358.75      | 9,654.73              | 1,767.05     | -32.82       | 1,767.33                | 0.73                    | 0.61                   | -0.41                 |

**Company:** Marathon Oil EF LLC  
**Project:** Eddy County, NM (NAD83)  
**Site:** Kyle 34 Federal  
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**Local Co-ordinate Reference:** Well #5H  
**TVD Reference:** GL + KB @ 3021.50usft (Patterson 244)  
**MD Reference:** GL + KB @ 3021.50usft (Patterson 244)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** Compass 5000 GCR

### 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) |
|---------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 11,406.00                       | 89.71           | 0.16        | 9,654.29              | 1,861.04     | -33.72       | 1,861.33                | 1.91                    | -1.18                  | 1.50                  |
| 11,500.00                       | 89.12           | 359.21      | 9,655.25              | 1,955.04     | -34.23       | 1,955.32                | 1.19                    | -0.63                  | -1.01                 |
| 11,595.00                       | 90.50           | 0.15        | 9,655.57              | 2,050.03     | -34.76       | 2,050.31                | 1.76                    | 1.45                   | 0.99                  |
| 11,689.00                       | 91.84           | 0.90        | 9,653.65              | 2,144.01     | -33.90       | 2,144.26                | 1.63                    | 1.43                   | 0.80                  |
| 11,783.00                       | 89.80           | 359.37      | 9,652.30              | 2,237.99     | -33.68       | 2,238.24                | 2.71                    | -2.17                  | -1.63                 |
| 11,877.00                       | 90.57           | 359.02      | 9,652.00              | 2,331.98     | -35.00       | 2,332.23                | 0.90                    | 0.82                   | -0.37                 |
| 11,972.00                       | 90.50           | 356.71      | 9,651.11              | 2,426.90     | -38.54       | 2,427.20                | 2.43                    | -0.07                  | -2.43                 |
| 12,066.00                       | 91.05           | 356.95      | 9,649.84              | 2,520.75     | -43.74       | 2,521.10                | 0.64                    | 0.59                   | 0.26                  |
| 12,160.00                       | 90.92           | 358.85      | 9,648.23              | 2,614.67     | -47.18       | 2,615.06                | 2.03                    | -0.14                  | 2.02                  |
| 12,254.00                       | 87.78           | 359.99      | 9,649.29              | 2,708.64     | -48.14       | 2,709.04                | 3.55                    | -3.34                  | 1.21                  |
| 12,349.00                       | 87.22           | 0.15        | 9,653.44              | 2,803.55     | -48.02       | 2,803.94                | 0.61                    | -0.59                  | 0.17                  |
| 12,443.00                       | 88.88           | 356.92      | 9,656.64              | 2,897.45     | -50.42       | 2,897.86                | 3.86                    | 1.77                   | -3.44                 |
| 12,537.00                       | 90.01           | 357.60      | 9,657.55              | 2,991.34     | -54.92       | 2,991.80                | 1.40                    | 1.20                   | 0.72                  |
| 12,631.00                       | 89.81           | 359.01      | 9,657.69              | 3,085.29     | -57.70       | 3,085.78                | 1.52                    | -0.21                  | 1.50                  |
| 12,726.00                       | 89.88           | 358.69      | 9,657.95              | 3,180.27     | -59.60       | 3,180.78                | 0.34                    | 0.07                   | -0.34                 |
| 12,821.00                       | 90.29           | 358.28      | 9,657.81              | 3,275.24     | -62.11       | 3,275.77                | 0.61                    | 0.43                   | -0.43                 |
| 12,915.00                       | 89.59           | 357.82      | 9,657.91              | 3,369.18     | -65.31       | 3,369.75                | 0.89                    | -0.74                  | -0.49                 |
| 13,010.00                       | 89.15           | 357.21      | 9,658.95              | 3,464.09     | -69.43       | 3,464.70                | 0.79                    | -0.46                  | -0.64                 |
| 13,103.00                       | 90.52           | 0.41        | 9,659.22              | 3,557.05     | -71.36       | 3,557.68                | 3.74                    | 1.47                   | 3.44                  |
| 13,198.00                       | 90.40           | 0.08        | 9,658.46              | 3,652.05     | -70.96       | 3,652.66                | 0.37                    | -0.13                  | -0.35                 |
| 13,293.00                       | 90.70           | 0.32        | 9,657.55              | 3,747.04     | -70.62       | 3,747.64                | 0.40                    | 0.32                   | 0.25                  |
| 13,387.00                       | 90.22           | 359.66      | 9,656.79              | 3,841.04     | -70.64       | 3,841.63                | 0.87                    | -0.51                  | -0.70                 |
| 13,481.00                       | 89.93           | 0.00        | 9,656.67              | 3,935.04     | -70.92       | 3,935.63                | 0.48                    | -0.31                  | 0.36                  |
| 13,576.00                       | 89.41           | 358.86      | 9,657.22              | 4,030.03     | -71.86       | 4,030.62                | 1.32                    | -0.55                  | -1.20                 |
| 13,670.00                       | 89.97           | 356.54      | 9,657.72              | 4,123.95     | -75.64       | 4,124.58                | 2.54                    | 0.60                   | -2.47                 |
| 13,765.00                       | 89.36           | 356.39      | 9,658.28              | 4,218.76     | -81.49       | 4,219.47                | 0.66                    | -0.64                  | -0.16                 |
| 13,859.00                       | 89.06           | 354.70      | 9,659.58              | 4,312.47     | -88.79       | 4,313.26                | 1.83                    | -0.32                  | -1.80                 |
| 13,953.00                       | 88.85           | 353.87      | 9,661.29              | 4,405.98     | -98.15       | 4,406.89                | 0.91                    | -0.22                  | -0.88                 |
| 14,047.00                       | 91.32           | 357.70      | 9,661.15              | 4,499.71     | -105.06      | 4,500.69                | 4.85                    | 2.63                   | 4.07                  |
| 14,142.00                       | 91.57           | 2.60        | 9,658.75              | 4,594.65     | -104.81      | 4,595.62                | 5.16                    | 0.26                   | 5.16                  |
| 14,236.00                       | 91.24           | 4.19        | 9,656.45              | 4,688.45     | -99.25       | 4,689.34                | 1.73                    | -0.35                  | 1.69                  |
| 14,291.00                       | 89.77           | 2.82        | 9,655.96              | 4,743.34     | -95.89       | 4,744.19                | 3.65                    | -2.67                  | -2.49                 |
| <b>Final Phoenix MWD Survey</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 14,337.00                       | 89.77           | 2.82        | 9,656.15              | 4,789.29     | -93.62       | 4,790.10                | 0.00                    | 0.00                   | 0.00                  |
| <b>Projection to TD</b>         |                 |             |                       |              |              |                         |                         |                        |                       |

**Company:** Marathon Oil EF LLC  
**Project:** Eddy County, NM (NAD83)  
**Site:** Kyle 34 Federal  
**Well:** #5H  
**Wellbore:** OH / Job #60399  
**Design:** Surveys (Patterson 244)

**Local Co-ordinate Reference:** Well #5H  
**TVD Reference:** GL + KB @ 3021.50usft (Patterson 244)  
**MD Reference:** GL + KB @ 3021.50usft (Patterson 244)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Database:** Compass 5000 GCR

**Design Annotations**

| Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Local Coordinates |                 | Comment                  |
|-----------------------------|-----------------------------|-------------------|-----------------|--------------------------|
|                             |                             | +N/-S<br>(usft)   | +E/-W<br>(usft) |                          |
| 460.00                      | 459.98                      | 2.08              | -1.87           | Tie In                   |
| 536.00                      | 535.97                      | 1.28              | -1.85           | First Phoenix MWD Survey |
| 9,622.00                    | 9,513.58                    | 104.73            | -17.86          | FTP                      |
| 14,291.00                   | 9,655.96                    | 4,743.34          | -95.89          | Final Phoenix MWD Survey |
| 14,337.00                   | 9,656.15                    | 4,789.29          | -93.62          | Projection to TD         |

District I  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720  
District II  
811 S. First St., Artesia, NM 88210  
Phone: (575) 748-1283 Fax: (575) 748-9720  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico  
Energy, Minerals & Natural Resources Department  
OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-102  
Revised August 1, 2011  
Submit one copy to appropriate  
District Office  
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

|                                  |                                                    |                                |
|----------------------------------|----------------------------------------------------|--------------------------------|
| <sup>1</sup> API Number          | <sup>2</sup> Pool Code                             | <sup>3</sup> Pool Name         |
| <sup>4</sup> Property Code       | <sup>5</sup> Property Name<br>KYLE 34 FEDERAL      | <sup>6</sup> Well Number<br>5H |
| <sup>7</sup> OGRID No.<br>160825 | <sup>8</sup> Operator Name<br>B.C. OPERATING, INC. | <sup>9</sup> Elevation<br>2994 |

<sup>10</sup> Surface Location

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| P             | 34      | T24S     | R28E  |         | 225           | SOUTH            | 990           | EAST           | EDDY   |

<sup>11</sup> Bottom Hole Location If Different From Surface

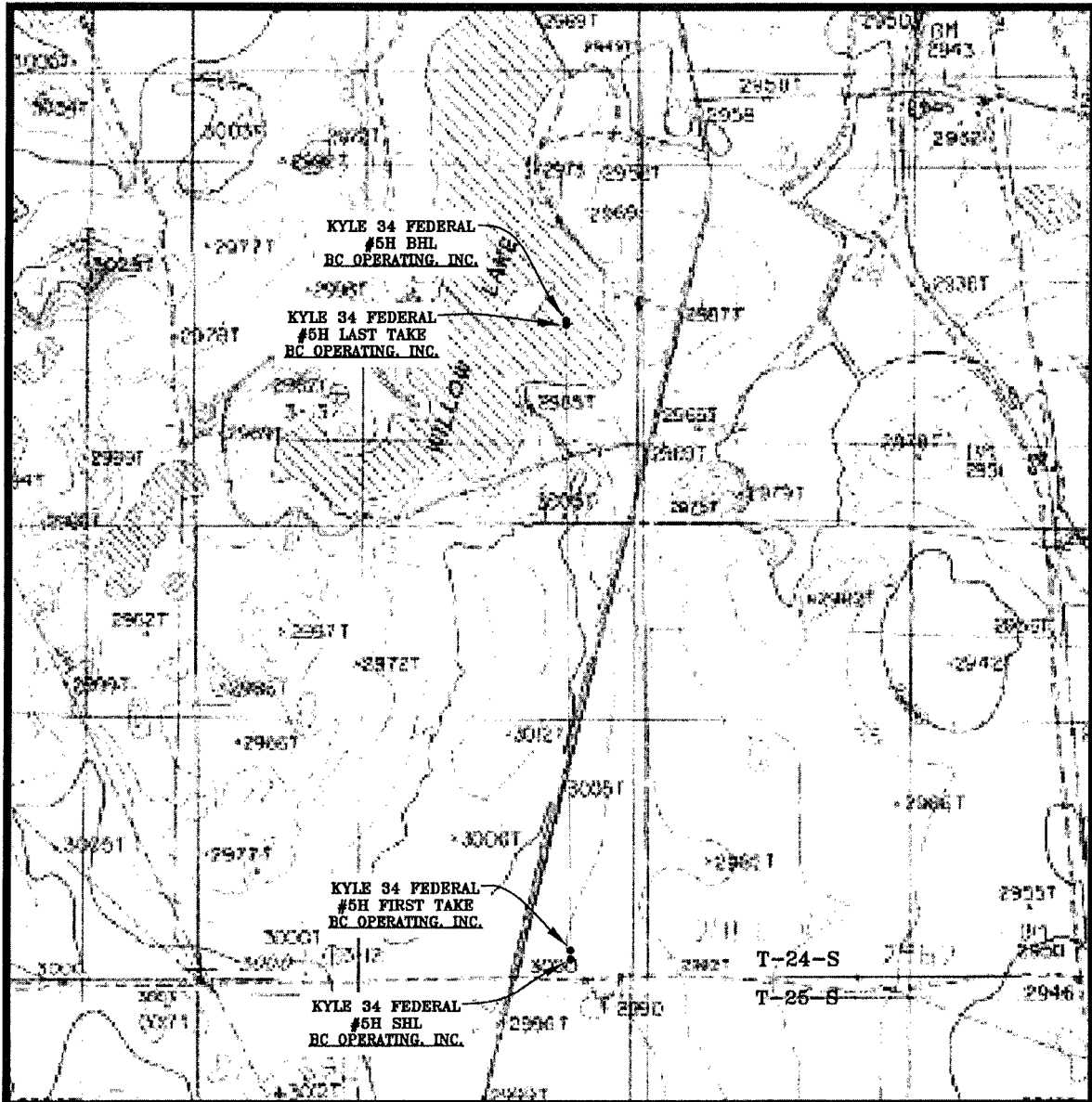
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| I             | 27      | T24S     | R28E  |         | 2400          | SOUTH            | 990           | EAST           | EDDY   |

| <sup>12</sup> Dedicated Acres | <sup>13</sup> Joint or Infill | <sup>14</sup> Consolidation Code | <sup>15</sup> Order No. |
|-------------------------------|-------------------------------|----------------------------------|-------------------------|
| 240.00                        |                               |                                  |                         |

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                               |                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| <p><sup>16</sup></p> <p>SECTION 21</p> <p>SECTION 28</p> <p>BOTTOM HOLE LOCATION<br/>2400' FSL 990' FEL, SECTION 27<br/>NAD 83, SPCS NM EAST<br/>Y432188.66 / X622839.72<br/>LAT:32.1878977N / LDN104.06987457W<br/>NAD 27, SPCS NM EAST<br/>Y432130.25 / X581655.98<br/>LAT:32.18776769N / LDN104.06938354W</p> <p>LAST TAKE POINT<br/>2350' FSL 990' FEL, SECTION 27<br/>NAD 83, SPCS NM EAST<br/>Y432138.54 / X622840.22<br/>LAT:32.18775198N / LDN104.06987333W<br/>NAD 27, SPCS NM EAST<br/>Y432080.13 / X581656.48<br/>LAT:32.18762990N / LDN104.06938230W</p> <p>SECTION 28</p> <p>SECTION 33</p> <p>FIRST TAKE POINT<br/>330' FSL 990' FEL, SECTION 34<br/>NAD 83, SPCS NM EAST<br/>Y424748.06 / X622915.83<br/>LAT:32.16743579N / LDN104.06968474W<br/>NAD 27, SPCS NM EAST<br/>Y424689.80 / X581731.93<br/>LAT:32.16731345N / LDN104.06919708W</p> <p>SURFACE HOLE LOCATION<br/>225' FSL 990' FEL, SECTION 34<br/>NAD 83, SPCS NM EAST<br/>Y424643.00' / X622917.10'<br/>LAT:32.16714699N / LDN104.06968420W<br/>NAD 27, SPCS NM EAST<br/>Y424584.74' / X581733.20'<br/>LAT:32.16702465N / LDN104.06919382W</p> <p>T-24-S SECTION 33</p> <p>T-25-S SECTION 4</p> <p>CORNER COORDINATES<br/>NAD 83, SPCS NM EAST<br/>A - Y: 432467.29 / X: 622490.37<br/>B - Y: 432472.07 / X: 623826.91<br/>C - Y: 424422.82 / X: 623909.23<br/>D - Y: 424416.39 / X: 623568.02</p> | <p>SECTION 22</p> <p>SECTION 27</p> <p>SECTION 27</p> <p>SECTION 27</p> <p>SECTION 34</p> <p>SECTION 3</p> <p>CORNER COORDINATES<br/>NAD 27, SPCS NM EAST<br/>A - Y: 432408.88 / X: 581306.65<br/>B - Y: 432413.65 / X: 582643.16<br/>C - Y: 424364.55 / X: 582725.30<br/>D - Y: 424358.14 / X: 581384.12</p> | <p>SECTION 23</p> <p>SECTION 26</p> <p>SECTION 26</p> <p>SECTION 35</p> <p>SECTION 35</p> <p>SECTION 2</p> | <p><sup>17</sup> OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p>Signature _____ Date _____</p> <p>Printed Name _____</p> <p>E-mail Address _____</p> <p><sup>18</sup> SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION, OR THE BASIS FOR THE ISSUANCE OF A PERMIT.</p> <p>Date of Survey _____<br/>Signature of Registered Professional Surveyor _____</p> <p>Certificate Number _____</p> |
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# LOCATION VERIFICATION MAP

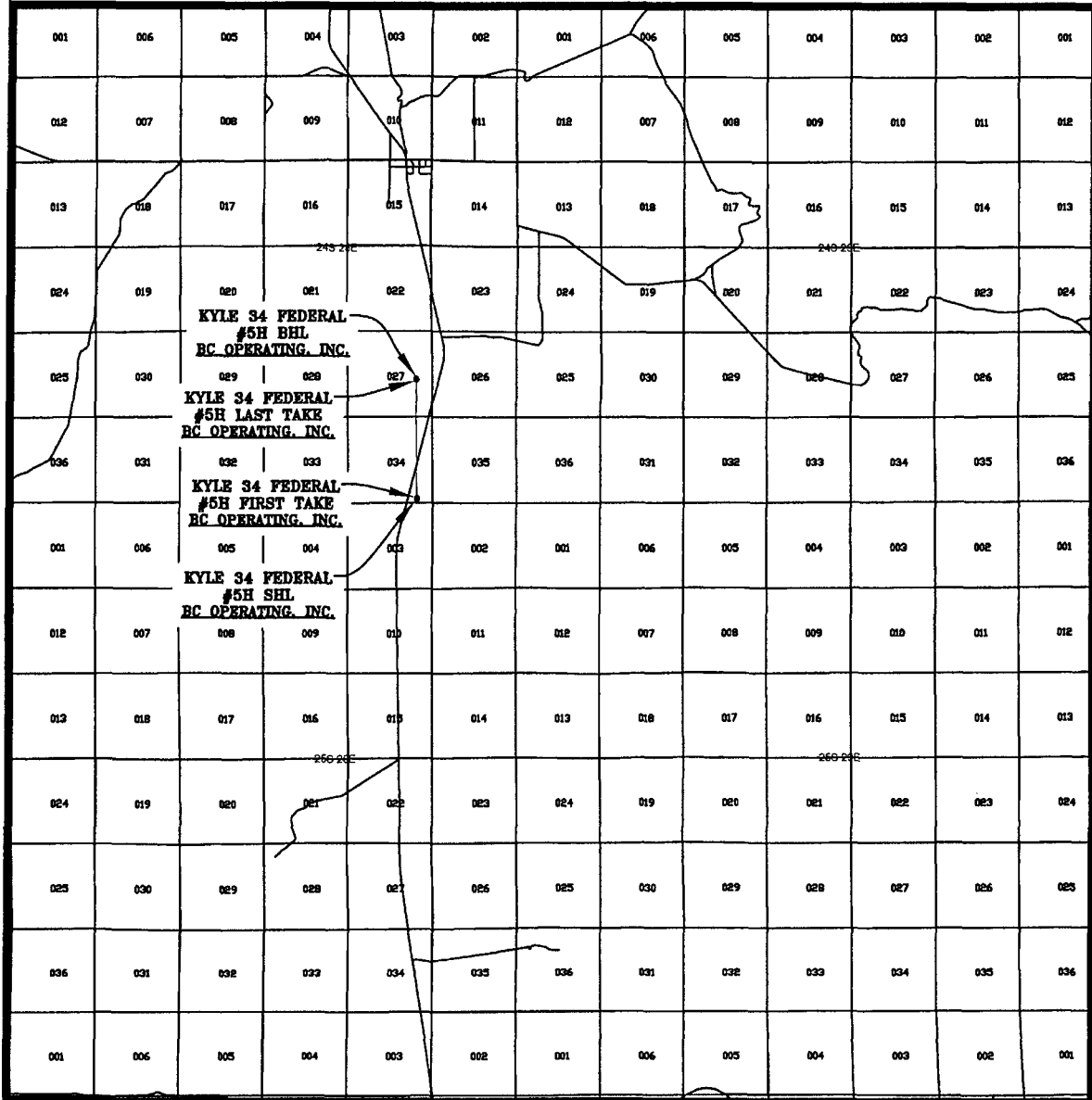


SEC. 34 TWP. 24-S RGE. 28-E  
 SURVEY: N.M.P.M.  
 COUNTY: EDDY  
 DESCRIPTION: 225' FSL & 990' FEL  
 ELEVATION: 2994'  
 OPERATOR: B.C. OPERATING, INC.  
 LEASE: KYLE 34 FEDERAL  
 U.S.G.S. TOPOGRAPHIC MAP: MALAGA, N.M.

SCALE: 1" = 2000'  
 CONTOUR INTERVAL = 20'

PREPARED BY:  
 R-SQUARED GLOBAL, LLC  
 1309 LOUISVILLE AVENUE, MONROE, LA 71201  
 318-323-6900 OFFICE  
 JOB No. R3681-01

# VICINITY MAP



SEC. 34 TWP. 24-S RGE. 28-E  
 SURVEY: N.M.P.M.  
 COUNTY: EDDY  
 DESCRIPTION: 225' FSL & 990' FEL  
 ELEVATION: 2994'  
 OPERATOR: B.C. OPERATING, INC.  
 LEASE: KYLE 34 FEDERAL  
 U.S.G.S. TOPOGRAPHIC MAP: MALAGA, N.M.

SCALE: 1" = 2 MILES

PREPARED BY:  
 R-SQUARED GLOBAL, LLC  
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 318-323-6900 OFFICE  
 JOB No. R3681-01