



**PHOENIX**  
TECHNOLOGY SERVICES

July 19, 2017

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

**NM OIL CONSERVATION**  
ARTESIA DISTRICT  
OCT 16 2017

Dear District 2 - Artesia

**RECEIVED**

Re: EOG Resources  
Irish Hills-Yeso NM Federal 1  
Eddy Co., NM  
API #30-015-23326  
Job No. 61283

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. 606018). Other information required by your office is as follows:

| Name & Title of Surveyor | Drainhole Number | Surveyed Depths |       | Dates Performed |         | Type of Survey |
|--------------------------|------------------|-----------------|-------|-----------------|---------|----------------|
|                          |                  | From            | To    | Start           | End     |                |
| Noe Garza                | 1                | 0               | 2,375 | 5/22/17         | 5/22/17 | Gyro           |

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

# NM OIL CONSERVATION

ARTESIA DISTRICT

OCT 16 2017

RECEIVED

## SURVEY CERTIFICATION FORM

3610 Elkins Road Midland, TX 79705 t:432-684-0057 f: 432-686-7964



**PHOENIX**  
TECHNOLOGY SERVICES

Company: EOG

Job #: 61283

Well Name: Irish Hills-Yeso NM Federal 1

County/State: Eddy Co., New Mexico

Survey Instrument Type: North Seek Rate Gyro

API # 30-015-23326

### TIE-IN DATA

| Measure<br>Depth (ft) | Vertical<br>Depth (ft) | Inclination<br>(°) | Azimuth (°) | N-S<br>Coordinates | E-W<br>Coordinates | Data Source |
|-----------------------|------------------------|--------------------|-------------|--------------------|--------------------|-------------|
| 0                     | 0                      | 0                  | 0           | 0                  | 0                  | Surface     |

### First Survey

| Date       | Depth (ft) | Inclination<br>(°) | Azimuth (°) |
|------------|------------|--------------------|-------------|
| 2017-05-22 | 0          | 0                  | 0           |

### Last Survey

| Date       | Depth (ft) | Inclination<br>(°) | Azimuth (°) |
|------------|------------|--------------------|-------------|
| 2017-05-22 | 2375       | 0.81               | 178.25      |

### Projected TD Survey

| Date | Depth (ft) | Inclination<br>(°) | Azimuth (°) |
|------|------------|--------------------|-------------|
| 0    | 0          | 0                  | 0           |

| Grid<br>Correction |
|--------------------|
| 0.11               |

Gyro Operator: Phoenix Technology Services USA Ltd.

Gyro Supervisor: Angel Guebara

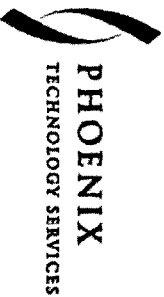
To the best of my knowledge I certify this survey data to be correct and true

Date:

05-22-17

Print Name: Noe Garza

Signature:



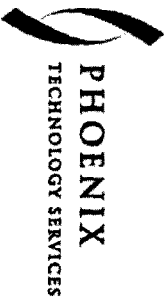
**PHOENIX**  
TECHNOLOGY SERVICES

Company: EOG  
Well: Irish Hills-Yeso NM Federal 1  
Location: Eddy Co., New Mexico  
Rig: Pulling Unit

Job Number: 61283  
Grid Corr.: 0.11  
Lat: 32.680224  
Long: -104.542796  
Grid Ref: NAD 83

Date: 05-22-17  
Calculation Method: Minimum Curvature  
Proposed Azimuth: Ground  
RKB - MSL in feet: Surface  
Tie Into:

| Survey Tool Type               | Survey Depth (ft) | Inclination (deg) | Azimuth (deg) | Course Length (ft) | True Vertical Depth (ft) | Vertical Section (ft) | Coordinates |          | Closure Distance (ft) | Closure Angle (deg) | Dogleg Severity (d/100') | Build Rate (d/100') | Walk Rate (d/100') |
|--------------------------------|-------------------|-------------------|---------------|--------------------|--------------------------|-----------------------|-------------|----------|-----------------------|---------------------|--------------------------|---------------------|--------------------|
|                                |                   |                   |               |                    |                          |                       | N/S (ft)    | E/W (ft) |                       |                     |                          |                     |                    |
| FIELD COPY, NON-DEFINITIVE     |                   |                   |               |                    |                          |                       |             |          |                       |                     |                          |                     |                    |
| Enter Tie-In Survey on Line 10 |                   |                   |               |                    |                          |                       |             |          |                       |                     |                          |                     |                    |
| TIE IN                         | 0                 |                   |               | 0                  | 0                        | 0                     | 0           | 0        |                       |                     |                          |                     |                    |
| Gyro                           | 100.00            | 0.65              | 301.20        | 100                | 100.00                   | 0.29                  | 0.29 N      | 0.49 W   | 0.57                  | 301.20              | 0.65                     | 0.65                | 301.20             |
|                                | 125.00            | 0.72              | 299.50        | 25                 | 125.00                   | 0.44                  | 0.44 N      | 0.74 W   | 0.87                  | 300.89              | 0.29                     | 0.28                | -6.80              |
|                                | 150.00            | 0.67              | 302.20        | 25                 | 149.99                   | 0.60                  | 0.60 N      | 1.00 W   | 1.17                  | 300.87              | 0.24                     | -0.20               | 10.80              |
|                                | 175.00            | 0.71              | 315.11        | 25                 | 174.99                   | 0.79                  | 0.79 N      | 1.24 W   | 1.47                  | 302.49              | 0.64                     | 0.16                | 51.64              |
|                                | 200.00            | 0.71              | 329.41        | 25                 | 199.99                   | 1.03                  | 1.03 N      | 1.42 W   | 1.76                  | 305.88              | 0.71                     | 0.00                | 57.20              |
|                                | 225.00            | 0.70              | 322.37        | 25                 | 224.99                   | 1.28                  | 1.28 N      | 1.60 W   | 2.05                  | 308.82              | 0.35                     | -0.04               | -28.16             |
|                                | 250.00            | 0.69              | 321.48        | 25                 | 249.99                   | 1.52                  | 1.52 N      | 1.78 W   | 2.35                  | 310.50              | 0.06                     | -0.04               | -3.56              |
|                                | 275.00            | 0.73              | 320.05        | 25                 | 274.98                   | 1.76                  | 1.76 N      | 1.98 W   | 2.65                  | 311.69              | 0.17                     | 0.16                | -5.72              |
|                                | 300.00            | 0.75              | 316.88        | 25                 | 299.98                   | 2.00                  | 2.00 N      | 2.19 W   | 2.97                  | 312.42              | 0.18                     | 0.08                | -12.68             |
|                                | 325.00            | 0.78              | 316.44        | 25                 | 324.98                   | 2.25                  | 2.25 N      | 2.42 W   | 3.31                  | 312.85              | 0.12                     | 0.12                | -1.76              |
|                                | 350.00            | 0.77              | 315.03        | 25                 | 349.98                   | 2.49                  | 2.49 N      | 2.66 W   | 3.64                  | 313.12              | 0.09                     | -0.04               | -5.64              |
|                                | 375.00            | 0.75              | 311.49        | 25                 | 374.98                   | 2.72                  | 2.72 N      | 2.90 W   | 3.97                  | 313.13              | 0.20                     | -0.08               | -14.16             |
|                                | 400.00            | 0.62              | 314.41        | 25                 | 399.97                   | 2.92                  | 2.92 N      | 3.12 W   | 4.27                  | 313.11              | 0.54                     | -0.52               | 11.68              |
|                                | 425.00            | 0.42              | 329.84        | 25                 | 424.97                   | 3.09                  | 3.09 N      | 3.26 W   | 4.50                  | 313.49              | 0.97                     | -0.80               | 61.72              |
|                                | 450.00            | 0.30              | 325.09        | 25                 | 449.97                   | 3.23                  | 3.23 N      | 3.35 W   | 4.65                  | 313.97              | 0.49                     | -0.48               | -19.00             |
|                                | 475.00            | 0.26              | 308.18        | 25                 | 474.97                   | 3.32                  | 3.32 N      | 3.43 W   | 4.77                  | 314.05              | 0.37                     | -0.16               | -67.64             |
|                                | 500.00            | 0.14              | 357.05        | 25                 | 499.97                   | 3.38                  | 3.38 N      | 3.47 W   | 4.85                  | 314.23              | 0.79                     | -0.48               | 195.48             |
|                                | 525.00            | 0.02              | 301.55        | 25                 | 524.97                   | 3.41                  | 3.41 N      | 3.48 W   | 4.87                  | 314.46              | 0.52                     | -0.48               | -222.00            |
|                                | 550.00            | 0.07              | 347.68        | 25                 | 549.97                   | 3.43                  | 3.43 N      | 3.49 W   | 4.89                  | 314.55              | 0.23                     | 0.20                | 184.52             |
|                                | 575.00            | 0.15              | 139.88        | 25                 | 574.97                   | 3.42                  | 3.42 N      | 3.47 W   | 4.87                  | 314.61              | 0.86                     | 0.32                | -831.20            |
|                                | 600.00            | 0.06              | 301.02        | 25                 | 599.97                   | 3.40                  | 3.40 N      | 3.46 W   | 4.85                  | 314.54              | 0.83                     | -0.36               | 644.56             |
|                                | 625.00            | 0.15              | 39.70         | 25                 | 624.97                   | 3.43                  | 3.43 N      | 3.45 W   | 4.87                  | 314.88              | 0.68                     | 0.36                | -1045.28           |
|                                | 650.00            | 0.27              | 85.84         | 25                 | 649.97                   | 3.46                  | 3.46 N      | 3.37 W   | 4.83                  | 315.80              | 0.79                     | 0.48                | 184.56             |
|                                | 675.00            | 0.32              | 77.60         | 25                 | 674.97                   | 3.48                  | 3.48 N      | 3.24 W   | 4.76                  | 317.06              | 0.26                     | 0.20                | -32.96             |
|                                | 700.00            | 0.56              | 68.62         | 25                 | 699.97                   | 3.54                  | 3.54 N      | 3.06 W   | 4.68                  | 319.18              | 1.00                     | 0.96                | -35.92             |
|                                | 725.00            | 0.68              | 71.19         | 25                 | 724.97                   | 3.64                  | 3.64 N      | 2.81 W   | 4.59                  | 322.34              | 0.49                     | 0.48                | 10.28              |
|                                | 750.00            | 0.65              | 73.46         | 25                 | 749.97                   | 3.72                  | 3.72 N      | 2.53 W   | 4.50                  | 325.81              | 0.16                     | -0.12               | 9.08               |
|                                | 775.00            | 0.71              | 69.78         | 25                 | 774.97                   | 3.82                  | 3.82 N      | 2.25 W   | 4.43                  | 329.50              | 0.30                     | 0.24                | -14.72             |



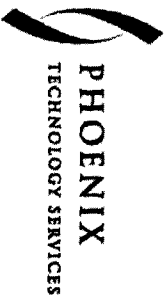
**PHOENIX**  
TECHNOLOGY SERVICES

Company: EOG  
Well: Irish Hills-Yeso NM Federal 1  
Location: Eddy Co., New Mexico  
Rig: Pulling Unit

Job Number: 61283  
Grid Corr.: 0.11  
Lat: 32.680224  
Long: -104.542796  
Grid Ref: NAD 83

Calculation Method: Minimum Curvature  
Proposed Azimuth: Ground  
RKB - MSL in feet: Surface  
Tie Into:

| Survey Tool Type | Survey Depth (ft) | Inclination (deg) | Azimuth (deg) | Course Length (ft) | True Vertical Depth (ft) | Vertical Section (ft) | Coordinates |        | Closure |        | Dogleg Severity (d/100') | Build Rate (d/100') | Walk Rate (d/100') |
|------------------|-------------------|-------------------|---------------|--------------------|--------------------------|-----------------------|-------------|--------|---------|--------|--------------------------|---------------------|--------------------|
|                  | 800.00            | 0.73              | 70.17         | 25                 | 799.96                   | 3.93                  | 3.93 N      | 1.95 W | 4.38    | 333.54 | 0.08                     | 0.08                | 1.56               |
|                  | 825.00            | 0.77              | 67.96         | 25                 | 824.96                   | 4.04                  | 4.04 N      | 1.65 W | 4.36    | 337.82 | 0.20                     | 0.16                | -8.84              |
|                  | 850.00            | 0.76              | 71.77         | 25                 | 849.96                   | 4.16                  | 4.16 N      | 1.33 W | 4.37    | 342.20 | 0.21                     | -0.04               | 15.24              |
|                  | 875.00            | 0.78              | 69.03         | 25                 | 874.96                   | 4.27                  | 4.27 N      | 1.02 W | 4.39    | 346.59 | 0.17                     | 0.08                | -10.96             |
|                  | 900.00            | 0.77              | 48.06         | 25                 | 899.95                   | 4.44                  | 4.44 N      | 0.73 W | 4.50    | 350.62 | 1.13                     | -0.04               | -83.88             |
|                  | 925.00            | 0.65              | 44.60         | 25                 | 924.95                   | 4.66                  | 4.66 N      | 0.51 W | 4.68    | 353.75 | 0.51                     | -0.48               | -13.84             |
|                  | 950.00            | 0.81              | 35.79         | 25                 | 949.95                   | 4.90                  | 4.90 N      | 0.31 W | 4.91    | 356.42 | 0.78                     | 0.64                | -35.24             |
|                  | 975.00            | 0.81              | 37.07         | 25                 | 974.95                   | 5.18                  | 5.18 N      | 0.10 W | 5.19    | 358.93 | 0.07                     | 0.00                | 5.12               |
|                  | 1000.00           | 0.84              | 33.93         | 25                 | 999.95                   | 5.48                  | 5.48 N      | 0.11 E | 5.48    | 1.17   | 0.22                     | 0.12                | -12.56             |
|                  | 1025.00           | 0.80              | 32.97         | 25                 | 1024.94                  | 5.78                  | 5.78 N      | 0.31 E | 5.78    | 3.06   | 0.17                     | -0.16               | -3.84              |
|                  | 1050.00           | 0.77              | 31.66         | 25                 | 1049.94                  | 6.07                  | 6.07 N      | 0.49 E | 6.09    | 4.64   | 0.14                     | -0.12               | -5.24              |
|                  | 1075.00           | 0.62              | 43.63         | 25                 | 1074.94                  | 6.31                  | 6.31 N      | 0.67 E | 6.34    | 6.10   | 0.83                     | -0.60               | 47.88              |
|                  | 1100.00           | 0.55              | 25.97         | 25                 | 1099.94                  | 6.51                  | 6.51 N      | 0.82 E | 6.56    | 7.17   | 0.77                     | -0.28               | -70.64             |
|                  | 1125.00           | 0.64              | 44.85         | 25                 | 1124.94                  | 6.72                  | 6.72 N      | 0.97 E | 6.79    | 8.22   | 0.86                     | 0.36                | 75.52              |
|                  | 1150.00           | 0.59              | 41.52         | 25                 | 1149.93                  | 6.91                  | 6.91 N      | 1.15 E | 7.01    | 9.48   | 0.25                     | -0.20               | -13.32             |
|                  | 1175.00           | 0.47              | 35.05         | 25                 | 1174.93                  | 7.09                  | 7.09 N      | 1.30 E | 7.21    | 10.37  | 0.54                     | -0.48               | -25.88             |
|                  | 1200.00           | 0.43              | 38.36         | 25                 | 1199.93                  | 7.25                  | 7.25 N      | 1.42 E | 7.39    | 11.05  | 0.19                     | -0.16               | 13.24              |
|                  | 1225.00           | 0.39              | 35.97         | 25                 | 1224.93                  | 7.39                  | 7.39 N      | 1.52 E | 7.55    | 11.64  | 0.17                     | -0.16               | -9.56              |
|                  | 1250.00           | 0.37              | 50.85         | 25                 | 1249.93                  | 7.51                  | 7.51 N      | 1.64 E | 7.69    | 12.29  | 0.40                     | -0.08               | 59.52              |
|                  | 1275.00           | 0.46              | 65.89         | 25                 | 1274.93                  | 7.61                  | 7.61 N      | 1.79 E | 7.81    | 13.25  | 0.56                     | 0.36                | 60.16              |
|                  | 1300.00           | 0.40              | 74.84         | 25                 | 1299.93                  | 7.67                  | 7.67 N      | 1.97 E | 7.92    | 14.38  | 0.36                     | -0.24               | 35.80              |
|                  | 1325.00           | 0.42              | 87.83         | 25                 | 1324.93                  | 7.70                  | 7.70 N      | 2.14 E | 7.99    | 15.55  | 0.38                     | 0.08                | 51.96              |
|                  | 1350.00           | 0.36              | 63.25         | 25                 | 1349.93                  | 7.74                  | 7.74 N      | 2.30 E | 8.07    | 16.59  | 0.70                     | -0.24               | -98.32             |
|                  | 1375.00           | 0.35              | 210.64        | 25                 | 1374.93                  | 7.71                  | 7.71 N      | 2.34 E | 8.05    | 16.86  | 2.73                     | -0.04               | 589.56             |
|                  | 1400.00           | 0.43              | 64.39         | 25                 | 1399.93                  | 7.68                  | 7.68 N      | 2.38 E | 8.04    | 17.22  | 2.99                     | 0.32                | -585.00            |
|                  | 1425.00           | 0.34              | 77.59         | 25                 | 1424.93                  | 7.74                  | 7.74 N      | 2.54 E | 8.14    | 18.16  | 0.50                     | -0.36               | 52.80              |
|                  | 1450.00           | 0.32              | 353.73        | 25                 | 1449.93                  | 7.82                  | 7.82 N      | 2.60 E | 8.24    | 18.41  | 1.77                     | -0.08               | 1104.56            |
|                  | 1475.00           | 0.18              | 25.11         | 25                 | 1474.93                  | 7.93                  | 7.93 N      | 2.61 E | 8.35    | 18.24  | 0.76                     | -0.56               | -1314.48           |
|                  | 1500.00           | 0.13              | 126.93        | 25                 | 1499.93                  | 7.95                  | 7.95 N      | 2.65 E | 8.38    | 18.45  | 0.97                     | -0.20               | 407.28             |
|                  | 1525.00           | 0.12              | 263.27        | 25                 | 1524.93                  | 7.93                  | 7.93 N      | 2.65 E | 8.36    | 18.47  | 0.93                     | -0.04               | 545.36             |
|                  | 1550.00           | 0.10              | 65.26         | 25                 | 1549.93                  | 7.93                  | 7.93 N      | 2.64 E | 8.36    | 18.42  | 0.87                     | -0.08               | -792.04            |



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TECHNOLOGY SERVICES

Company: EOG  
Well: Irish Hills-Yeso NM Federal 1  
Location: Eddy Co., New Mexico  
Rig: Pulling Unit

Job Number: 61283  
Grid Corr.: 0.11  
Lat: 32.680224  
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Calculation Method: Minimum Curvature  
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RKB - MSL in feet: Surface  
Tie Into: \_\_\_\_\_

| Survey Tool Type | Survey Depth (ft) | Inclination (deg) | Azimuth (deg) | Course Length (ft) | True Vertical Depth (ft) | Vertical Section (ft) | Coordinates |          | Closure       |             | Dogleg Severity (d/100') | Build Rate (d/100') | Walk Rate (d/100') |
|------------------|-------------------|-------------------|---------------|--------------------|--------------------------|-----------------------|-------------|----------|---------------|-------------|--------------------------|---------------------|--------------------|
|                  |                   |                   |               |                    |                          |                       | N/S (ft)    | E/W (ft) | Distance (ft) | Angle (deg) |                          |                     |                    |
|                  | 1575.00           | 0.08              | 12.61         | 25                 | 1574.93                  | 7.96                  | 7.96 N      | 2.67 E   | 8.39          | 18.52       | 0.33                     | -0.08               | -210.60            |
|                  | 1600.00           | 0.04              | 115.14        | 25                 | 1599.93                  | 7.97                  | 7.97 N      | 2.68 E   | 8.41          | 18.56       | 0.39                     | -0.16               | 410.12             |
|                  | 1625.00           | 0.07              | 197.03        | 25                 | 1624.93                  | 7.95                  | 7.95 N      | 2.68 E   | 8.39          | 18.63       | 0.30                     | 0.12                | 327.56             |
|                  | 1650.00           | 0.07              | 98.55         | 25                 | 1649.93                  | 7.94                  | 7.94 N      | 2.69 E   | 8.38          | 18.73       | 0.42                     | 0.00                | -393.92            |
|                  | 1675.00           | 0.08              | 256.18        | 25                 | 1674.93                  | 7.93                  | 7.93 N      | 2.69 E   | 8.37          | 18.73       | 0.59                     | 0.04                | 630.52             |
|                  | 1700.00           | 0.00              | 239.38        | 25                 | 1699.93                  | 7.93                  | 7.93 N      | 2.67 E   | 8.36          | 18.63       | 0.32                     | -0.32               | -67.20             |
|                  | 1725.00           | 0.18              | 56.86         | 25                 | 1724.93                  | 7.95                  | 7.95 N      | 2.71 E   | 8.39          | 18.80       | 0.72                     | 0.72                | -730.08            |
|                  | 1750.00           | 0.15              | 87.19         | 25                 | 1749.93                  | 7.97                  | 7.97 N      | 2.77 E   | 8.44          | 19.17       | 0.36                     | -0.12               | 121.32             |
|                  | 1775.00           | 0.17              | 238.73        | 25                 | 1774.93                  | 7.95                  | 7.95 N      | 2.77 E   | 8.42          | 19.22       | 1.24                     | 0.08                | 606.16             |
|                  | 1800.00           | 0.10              | 238.92        | 25                 | 1799.93                  | 7.92                  | 7.92 N      | 2.72 E   | 8.38          | 18.96       | 0.28                     | -0.28               | 0.76               |
|                  | 1825.00           | 0.19              | 192.27        | 25                 | 1824.93                  | 7.87                  | 7.87 N      | 2.69 E   | 8.32          | 18.90       | 0.57                     | 0.36                | -186.60            |
|                  | 1850.00           | 0.41              | 206.81        | 25                 | 1849.93                  | 7.75                  | 7.75 N      | 2.64 E   | 8.19          | 18.84       | 0.92                     | 0.88                | 58.16              |
|                  | 1875.00           | 0.33              | 218.83        | 25                 | 1874.93                  | 7.61                  | 7.61 N      | 2.56 E   | 8.03          | 18.58       | 0.44                     | -0.32               | 48.08              |
|                  | 1900.00           | 0.51              | 210.67        | 25                 | 1899.93                  | 7.46                  | 7.46 N      | 2.46 E   | 7.86          | 18.23       | 0.76                     | 0.72                | -32.64             |
|                  | 1925.00           | 0.50              | 215.11        | 25                 | 1924.92                  | 7.28                  | 7.28 N      | 2.34 E   | 7.64          | 17.81       | 0.16                     | -0.04               | 17.76              |
|                  | 1950.00           | 0.50              | 216.18        | 25                 | 1949.92                  | 7.10                  | 7.10 N      | 2.21 E   | 7.44          | 17.30       | 0.04                     | 0.00                | 4.28               |
|                  | 1975.00           | 0.60              | 221.79        | 25                 | 1974.92                  | 6.91                  | 6.91 N      | 2.06 E   | 7.21          | 16.58       | 0.45                     | 0.40                | 22.44              |
|                  | 2000.00           | 0.62              | 207.34        | 25                 | 1999.92                  | 6.70                  | 6.70 N      | 1.91 E   | 6.96          | 15.92       | 0.62                     | 0.08                | -57.80             |
|                  | 2025.00           | 0.63              | 214.27        | 25                 | 2024.92                  | 6.46                  | 6.46 N      | 1.77 E   | 6.70          | 15.32       | 0.30                     | 0.04                | 27.72              |
|                  | 2050.00           | 0.72              | 206.39        | 25                 | 2049.92                  | 6.21                  | 6.21 N      | 1.62 E   | 6.42          | 14.65       | 0.52                     | 0.36                | -31.52             |
|                  | 2075.00           | 0.73              | 208.15        | 25                 | 2074.92                  | 5.93                  | 5.93 N      | 1.48 E   | 6.11          | 14.00       | 0.10                     | 0.04                | 7.04               |
|                  | 2100.00           | 0.86              | 212.32        | 25                 | 2099.91                  | 5.63                  | 5.63 N      | 1.30 E   | 5.78          | 13.03       | 0.57                     | 0.52                | 16.68              |
|                  | 2125.00           | 0.81              | 194.00        | 25                 | 2124.91                  | 5.30                  | 5.30 N      | 1.16 E   | 5.42          | 12.35       | 1.08                     | -0.20               | -73.28             |
|                  | 2150.00           | 0.92              | 206.34        | 25                 | 2149.91                  | 4.95                  | 4.95 N      | 1.03 E   | 5.05          | 11.74       | 0.86                     | 0.44                | 49.36              |
|                  | 2175.00           | 0.92              | 218.36        | 25                 | 2174.90                  | 4.61                  | 4.61 N      | 0.81 E   | 4.68          | 10.02       | 0.77                     | 0.00                | 48.08              |
|                  | 2200.00           | 0.87              | 203.06        | 25                 | 2199.90                  | 4.28                  | 4.28 N      | 0.62 E   | 4.32          | 8.18        | 0.97                     | -0.20               | -61.20             |
|                  | 2225.00           | 0.88              | 212.34        | 25                 | 2224.90                  | 3.94                  | 3.94 N      | 0.44 E   | 3.96          | 6.35        | 0.57                     | 0.04                | 37.12              |
|                  | 2250.00           | 0.91              | 205.36        | 25                 | 2249.90                  | 3.60                  | 3.60 N      | 0.25 E   | 3.61          | 3.98        | 0.45                     | 0.12                | -27.92             |
|                  | 2275.00           | 0.95              | 201.87        | 25                 | 2274.89                  | 3.23                  | 3.23 N      | 0.09 E   | 3.23          | 1.57        | 0.28                     | 0.16                | -13.96             |
|                  | 2300.00           | 0.96              | 199.23        | 25                 | 2299.89                  | 2.84                  | 2.84 N      | 0.06 W   | 2.84          | 358.83      | 0.18                     | 0.04                | -10.56             |
|                  | 2325.00           | 0.94              | 201.47        | 25                 | 2324.89                  | 2.45                  | 2.45 N      | 0.20 W   | 2.46          | 355.28      | 0.17                     | -0.08               | 8.96               |



**PHOENIX**  
TECHNOLOGY SERVICES

Company: EOG  
Well: Irish Hills-Yeso NM Federal 1  
Location: Eddy Co., New Mexico  
Rig: Pulling Unit

Job Number: 61283  
Grid Corr.: 0.11  
Lat: 32.680224  
Long: -104.542796  
Grid Ref: NAD 83

Calculation Method: Minimum Curvature  
Proposed Azimuth: Ground  
RK8 - MSL in feet: Surface  
Tie Into:

| Survey<br>Tool<br>Type | Survey<br>Depth<br>(ft) | Inclina-<br>tion<br>(deg) | Azimuth<br>(deg) | Course<br>Length<br>(ft) | True Vertical<br>Depth<br>(ft) | Vertical<br>Section<br>(ft) | Coordinates |        | Closure          |                | Dogleg<br>Severity<br>(d/100') | Build<br>Rate<br>(d/100') | Walk<br>Rate<br>(d/100') |
|------------------------|-------------------------|---------------------------|------------------|--------------------------|--------------------------------|-----------------------------|-------------|--------|------------------|----------------|--------------------------------|---------------------------|--------------------------|
|                        | 2350.00                 | 0.93                      | 188.81           | 25                       | 2349.88                        | 2.06                        | N/S         | E/W    | Distance<br>(ft) | Angle<br>(deg) |                                |                           |                          |
|                        | 2375.00                 | 0.81                      | 178.25           | 25                       | 2374.88                        | 1.68                        | 2.06 N      | 0.31 W | 1.71             | 348.76         | 0.83                           | -0.04                     | -50.64                   |
|                        |                         |                           |                  |                          |                                |                             | 1.68 N      | 0.33 W |                  |                | 0.80                           | -0.48                     | -42.24                   |

# NM OIL CONSERVATION

ARTESIA DISTRICT

## NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

OCT 16 2017

Form C-102  
Supersedes C-128  
Effective 1-1-65

All distances must be from the outer boundaries of the Section

RECEIVED

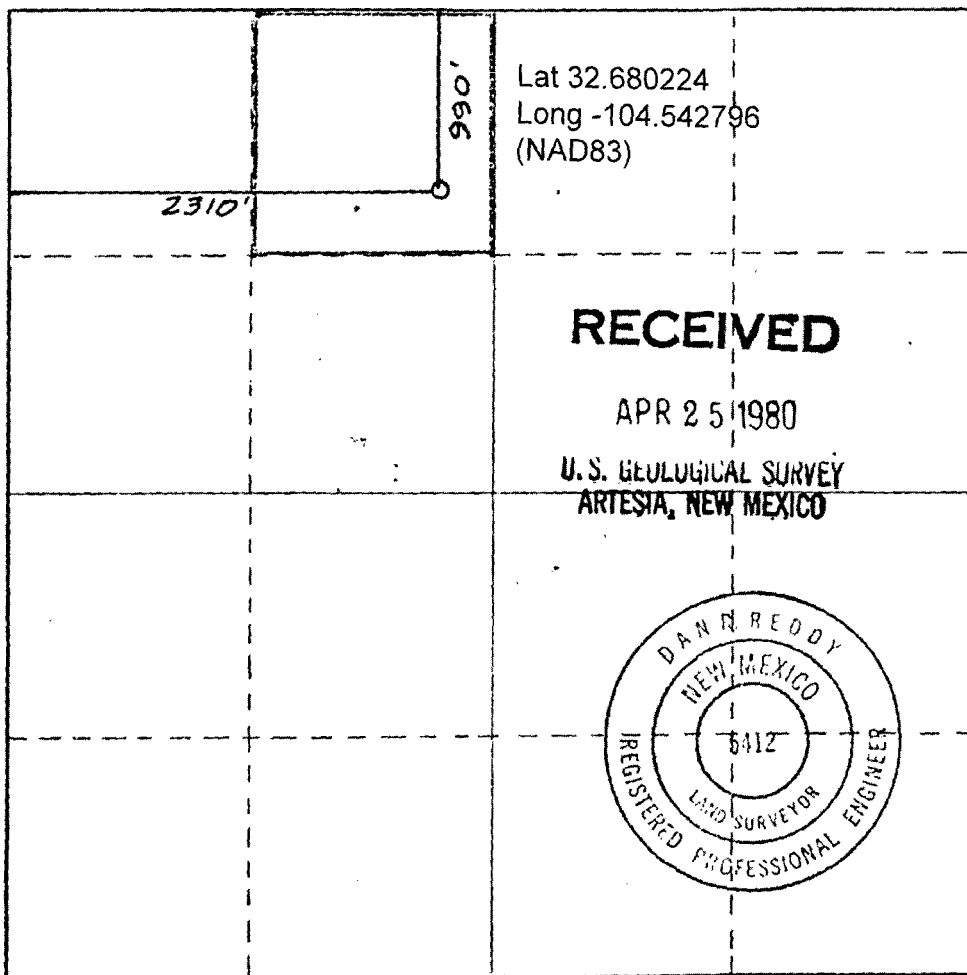
|                                                                                                                               |                                    |                                              |                                       |                       |
|-------------------------------------------------------------------------------------------------------------------------------|------------------------------------|----------------------------------------------|---------------------------------------|-----------------------|
| Operator<br><b>YATES PETROLEUM CORPORATION</b>                                                                                |                                    | Lease<br><b>Irish Hills-Yeso NM Federal</b>  |                                       | Well No.<br><b>1</b>  |
| Unit Letter<br><b>C</b>                                                                                                       | Section<br><b>12</b>               | Township<br><b>19 South</b>                  | Range<br><b>24 East</b>               | County<br><b>Eddy</b> |
| Actual Footage Location of Well:<br><b>990</b> feet from the <b>North</b> line and <b>2310</b> feet from the <b>West</b> line |                                    |                                              |                                       |                       |
| Ground Level Elev.<br><b>3616.6</b>                                                                                           | Producing Formation<br><b>Yeso</b> | Pool<br><b>Penasco Draw (SA-Yeso Assoc.)</b> | Dedicated Acreage:<br><b>40</b> Acres |                       |

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation \_\_\_\_\_

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) \_\_\_\_\_

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



### CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

*Gliserio Rodriguez*

Name  
**Gliserio Rodriguez**

Position  
**Geographer**

Company  
**Yates Petroleum Corp.**

Date  
**March 12, 1980**

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 knowledge and belief.

Date Surveyed  
**March 8, 1980**

Registered Professional Engineer and/or Land Surveyor

*Dan R. Reddy*

Certificate No.  
**NM PE&LS #5412**

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0