

## Results of Directional Survey

|             |                     |           |                                   |
|-------------|---------------------|-----------|-----------------------------------|
| API number: | <b>30-025-40552</b> |           |                                   |
| OGRID:      |                     | Operator: | <b>EOG RESOURCES INC</b>          |
|             |                     | Property: | <b>DIAMOND 8 FEDERAL COM # 5H</b> |

|         |        |          |           |            |            |             |            |
|---------|--------|----------|-----------|------------|------------|-------------|------------|
| surface | ULSTR: | <b>D</b> | <b>08</b> | <b>T</b>   | <b>25S</b> | <b>R</b>    | <b>34E</b> |
|         |        |          |           | <b>330</b> | <b>FNL</b> | <b>1310</b> | <b>FWL</b> |

|              |           |               |            |             |            |             |            |
|--------------|-----------|---------------|------------|-------------|------------|-------------|------------|
| BH Loc       | ULSTR:    | <b>M</b>      | <b>08</b>  | <b>T</b>    | <b>25S</b> | <b>R</b>    | <b>34E</b> |
| <b>13805</b> | <b>MD</b> | <b>9505.2</b> | <b>TVD</b> | <b>364</b>  | <b>FSL</b> | <b>1338</b> | <b>FWL</b> |
|              |           |               |            | <b>4916</b> | <b>FNL</b> |             |            |

|             |           |               |            |            |            |             |            |
|-------------|-----------|---------------|------------|------------|------------|-------------|------------|
| Top Perf/OH | ULSTR:    | <b>D</b>      | <b>08</b>  | <b>T</b>   | <b>25S</b> | <b>R</b>    | <b>34E</b> |
| <b>9808</b> | <b>MD</b> | <b>9487.6</b> | <b>TVD</b> | <b>920</b> | <b>FNL</b> | <b>1346</b> | <b>FWL</b> |

|              |           |               |            |             |            |             |            |
|--------------|-----------|---------------|------------|-------------|------------|-------------|------------|
| Bot Perf/OH  | ULSTR:    | <b>M</b>      | <b>08</b>  | <b>T</b>    | <b>25S</b> | <b>R</b>    | <b>34E</b> |
| <b>13750</b> | <b>MD</b> | <b>9506.5</b> | <b>TVD</b> | <b>419</b>  | <b>FSL</b> | <b>1336</b> | <b>FWL</b> |
|              |           |               |            | <b>4861</b> | <b>FNL</b> |             |            |

|              |              |          |       |         |
|--------------|--------------|----------|-------|---------|
|              | MD           | N/S      | E/W   | VD      |
|              | 9800         | -582.35  | 36.45 | 9487.58 |
| TOP PERFS/OH | <b>9808</b>  | -590.35  | 36.38 | 9487.64 |
|              | 9832         | -614.35  | 36.17 | 9487.83 |
|              | 13748        | -4529.08 | 26.22 | 9506.53 |
| BOT PERFS/OH | <b>13750</b> | -4531.08 | 26.28 | 9506.48 |
|              | 13780        | -4561.06 | 27.12 | 9505.78 |

|              |              |          |       |         |
|--------------|--------------|----------|-------|---------|
| NEXT TO LAST | 13780        | -4561.06 | 27.12 | 9505.78 |
| LAST READING | 13805        | -4586.05 | 27.77 | 9505.17 |
| TD           | <b>13805</b> | -4586.05 | 27.77 | 9505.17 |

|                  |      |    |      |    |
|------------------|------|----|------|----|
| Surface Location | 330  | FN | 1310 | FW |
| Projected BHL    | 4916 | FN | 1338 | FW |
| Location of      |      |    |      |    |
| Top Perfs/OH     | 920  | FN | 1346 | FW |
| Bottom Perfs/OH  | 4861 | FN | 1336 | FW |

### SUMMARY of Subsurface Locations

|                  |              |      |    |      |    |             |
|------------------|--------------|------|----|------|----|-------------|
| Surface Location | D-08-25S-34E | 330  | FN | 1310 | FW | Vert. Depth |
|                  |              |      |    |      |    |             |
| Top Perfs/OH     | D-08-25S-34E | 920  | FN | 1346 | FW | 9487.64     |
| Bottom Perfs/OH  | M-08-25S-34E | 4861 | FN | 1336 | FW | 9506.48     |
|                  |              |      |    |      |    |             |
| Projected TD     | M-08-25S-34E | 4916 | FN | 1338 | FW | 9505.17     |

OCT 1-1 2012



# EOG Resources, Inc.

Location: Lea County, NM  
Field: (Diamond) Sec 8, T25S, R34E  
Facility: Diamond 8 Fed Com No 5H

Slot: No.5H SHL  
Well: No.5H  
Wellbore: No.5H PWB

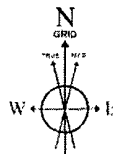


## Well Profile Data

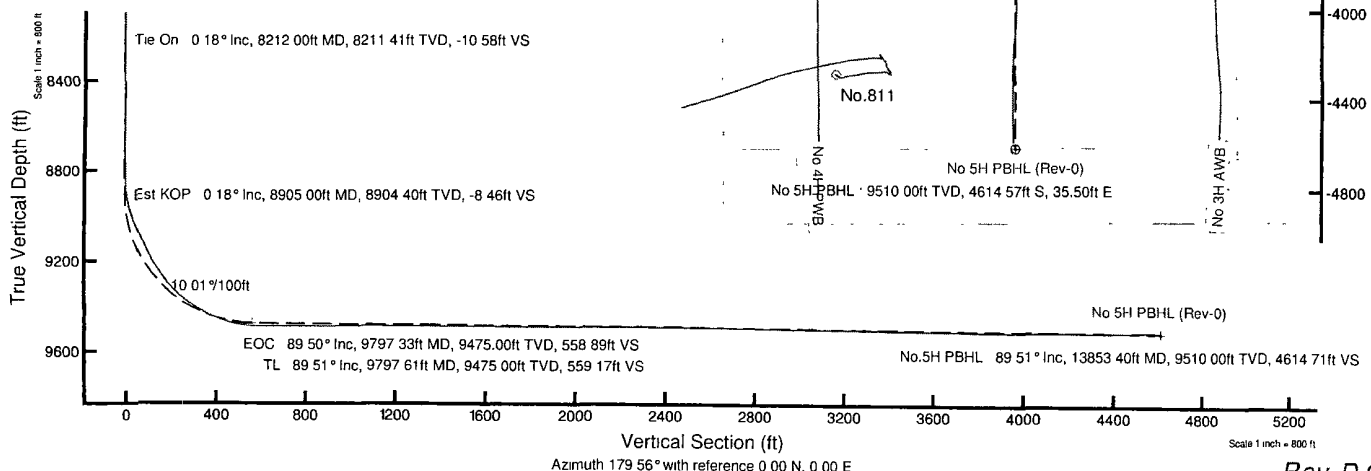
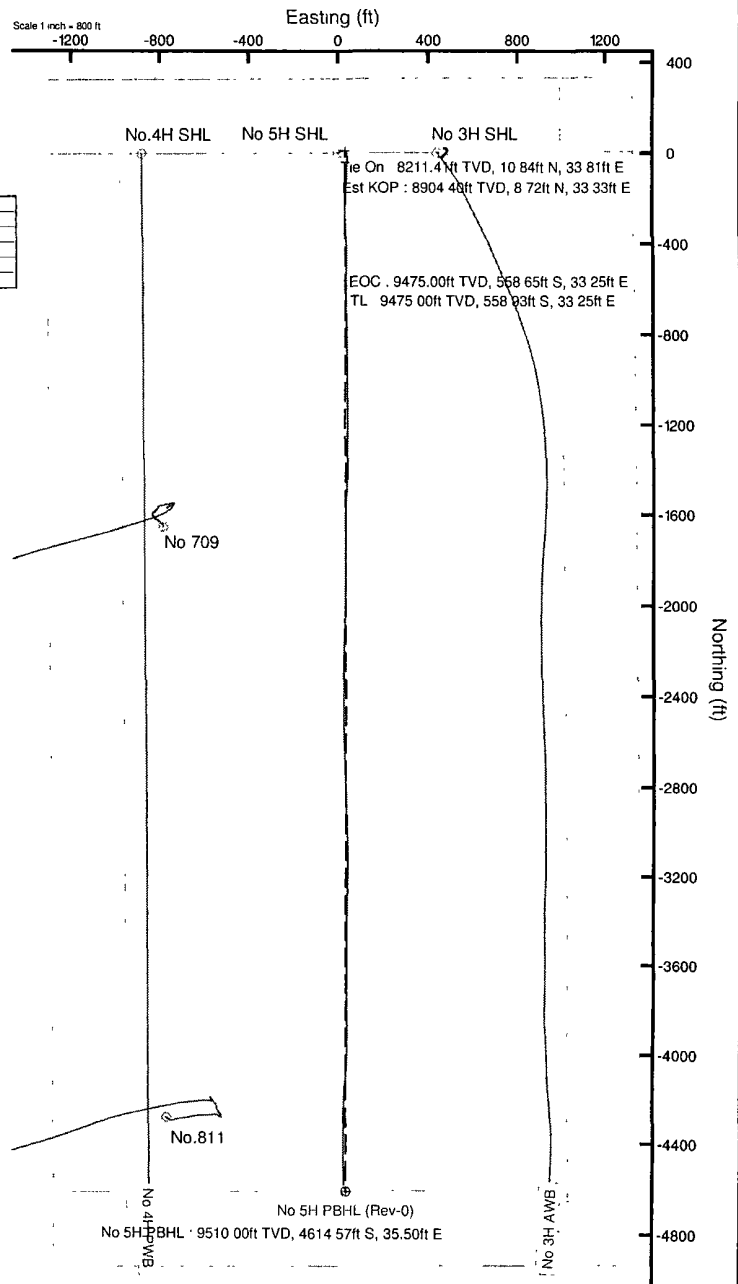
| Design Comment | MD (ft)  | Inc (°) | Az (°)  | TVD (ft) | Local N (ft) | Local E (ft) | DLS (°/100ft) | VS (ft) |
|----------------|----------|---------|---------|----------|--------------|--------------|---------------|---------|
| Tie On         | 8212.00  | 0.180   | 192.920 | 8211.41  | 10.84        | 33.81        | 0.00          | -10.58  |
| Est KOP        | 8905.00  | 0.180   | 192.920 | 8904.40  | 8.72         | 33.33        | 0.00          | -8.46   |
| EOC            | 9797.33  | 89.500  | 179.968 | 9475.00  | -558.65      | 33.25        | 10.01         | 558.89  |
| TL             | 9797.61  | 89.506  | 179.968 | 9475.00  | -558.93      | 33.25        | 2.00          | 559.17  |
| No 5H PBHL     | 13853.40 | 89.506  | 179.968 | 9510.00  | -4614.57     | 35.50        | 0.00          | 4614.71 |

SUR: D-08-25s-34e, 330/N & 1310/W  
BHL: M-08-25s-34e, 4916/N & 1338/W  
API # 30-025-40552

|                                                              |                                                                     |
|--------------------------------------------------------------|---------------------------------------------------------------------|
| Pilot reference wellpath is Rev D.0                          |                                                                     |
| True vertical depths are referenced to Rig on No 5H SHL (KB) | Grid System: NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet |
| Measured depths are referenced to Rig on No 5H SHL (KB)      | North Reference: Grid north                                         |
| Rig on No 5H SHL (KB) to Mean Sea Level 3416.4 feet          | Scale: True distance                                                |
| Mean Sea Level to Mud line (At Slot No 5H SHL) 3386.4 feet   | Depths are in feet                                                  |
| Coordinates are in feet referenced to Facility Center        | Created by: gentry on 7/1/2012                                      |



BGGM (1945.0 to 2013.0) Dip: 60.07° Field: 48480.8 nT  
Magnetic North is 7.50 degrees East of True North (at 6/18/2012)  
Grid North is 0.45 degrees East of True North  
To correct azimuth from True to Grid subtract 0.45 degrees  
To correct azimuth from Magnetic to Grid add 7.05 degrees  
For example if the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 7.05 = 97.05



Rev-D.0



# Actual Wellpath Report

No.5H AWP

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## REFERENCE WELLPATH IDENTIFICATION

|          |                             |          |           |
|----------|-----------------------------|----------|-----------|
| Operator | EOG Resources, Inc.         | Slot     | No.5H SHL |
| Area     | Lea County, NM              | Well     | No.5H     |
| Field    | (Diamond) Sec 8, T25S, R34E | Wellbore | No.5H AWB |
| Facility | Diamond 8 Fed Com No.5H     |          |           |

## REPORT SETUP INFORMATION

|                     |                                                        |                      |                          |
|---------------------|--------------------------------------------------------|----------------------|--------------------------|
| Projection System   | NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet | Software System      | WellArchitect® 3.0.0     |
| North Reference     | Grid                                                   | User                 | Gentbry                  |
| Scale               | 0.999986                                               | Report Generated     | 7/10/2012 at 8:18:16 AM  |
| Convergence at slot | 0.45° East                                             | Database/Source file | WA Midland/No.5H_AWB.xml |

## WELLPATH LOCATION

|                       | Local coordinates |          | Grid coordinates |                 | Geographic coordinates |                 |
|-----------------------|-------------------|----------|------------------|-----------------|------------------------|-----------------|
|                       | North[ft]         | East[ft] | Easting[US ft]   | Northing[US ft] | Latitude               | Longitude       |
| Slot Location         | 0.00              | 0.00     | 759209.50        | 419760.00       | 32°09'04.555"N         | 103°29'44.860"W |
| Facility Reference Pt |                   |          | 759209.50        | 419760.00       | 32°09'04.555"N         | 103°29'44.860"W |
| Field Reference Pt    |                   |          | 759209.50        | 419760.00       | 32°09'04.555"N         | 103°29'44.860"W |

## WELLPATH DATUM

|                          |                       |                                                       |                   |
|--------------------------|-----------------------|-------------------------------------------------------|-------------------|
| Calculation method       | Minimum curvature     | Rig on No.5H SHL (KB) to Facility Vertical Datum      | 30.00ft           |
| Horizontal Reference Pt  | Facility Center       | Rig on No.5H SHL (KB) to Mean Sea Level               | 3416.40ft         |
| Vertical Reference Pt    | Rig on No.5H SHL (KB) | Rig on No.5H SHL (KB) to Mud Line at Slot (No.5H SHL) | 30.00ft           |
| MD Reference Pt          | Rig on No.5H SHL (KB) | Section Origin                                        | N 0.00, E 0.00 ft |
| Field Vertical Reference | Mean Sea Level        | Section Azimuth                                       | 179.56°           |



# Actual Wellpath Report

No.5H AWP

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## REFERENCE WELLPATH IDENTIFICATION

|          |                             |          |           |
|----------|-----------------------------|----------|-----------|
| Operator | EOG Resources, Inc.         | Slot     | No.5H SHL |
| Area     | Lea County, NM              | Well     | No.5H     |
| Field    | (Diamond) Sec 8, T25S, R34E | Wellbore | No.5H AWB |
| Facility | Diamond 8 Fed Com No.5H     |          |           |

## WELLPATH DATA (166 stations)

| MD<br>[ft] | Inclination<br>[°] | Azimuth<br>[°] | TVD<br>[ft] | Vert Sect<br>[ft] | North<br>[ft] | East<br>[ft] | Grid East<br>[US ft] | Grid North<br>[US ft] | Latitude       | Longitude       | DLS<br>[°/100ft] | Comments |
|------------|--------------------|----------------|-------------|-------------------|---------------|--------------|----------------------|-----------------------|----------------|-----------------|------------------|----------|
| 0.00       | 0.000              | 57.200         | 0.00        | 0.00              | 0.00          | 0.00         | 759209.50            | 419760.00             | 32°09'04.555"N | 103°29'44.860"W | 0.00             |          |
| 100.00     | 0.310              | 57.200         | 100.00      | -0.14             | 0.15          | 0.23         | 759209.73            | 419760.15             | 32°09'04.557"N | 103°29'44.857"W | 0.31             |          |
| 200.00     | 0.430              | 67.190         | 200.00      | -0.43             | 0.44          | 0.80         | 759210.30            | 419760.44             | 32°09'04.560"N | 103°29'44.851"W | 0.14             |          |
| 300.00     | 0.260              | 66.820         | 300.00      | -0.66             | 0.67          | 1.36         | 759210.86            | 419760.67             | 32°09'04.562"N | 103°29'44.844"W | 0.17             |          |
| 400.00     | 0.260              | 89.050         | 399.99      | -0.75             | 0.77          | 1.79         | 759211.29            | 419760.77             | 32°09'04.563"N | 103°29'44.839"W | 0.10             |          |
| 500.00     | 0.160              | 88.200         | 499.99      | -0.76             | 0.77          | 2.16         | 759211.66            | 419760.77             | 32°09'04.563"N | 103°29'44.835"W | 0.10             |          |
| 600.00     | 0.210              | 113.950        | 599.99      | -0.69             | 0.70          | 2.46         | 759211.96            | 419760.70             | 32°09'04.562"N | 103°29'44.831"W | 0.10             |          |
| 700.00     | 0.220              | 145.570        | 699.99      | -0.45             | 0.47          | 2.74         | 759212.24            | 419760.47             | 32°09'04.560"N | 103°29'44.828"W | 0.12             |          |
| 800.00     | 0.270              | 116.150        | 799.99      | -0.19             | 0.21          | 3.06         | 759212.56            | 419760.21             | 32°09'04.557"N | 103°29'44.824"W | 0.13             |          |
| 900.00     | 0.150              | 153.810        | 899.99      | 0.04              | -0.01         | 3.33         | 759212.83            | 419759.99             | 32°09'04.555"N | 103°29'44.821"W | 0.18             |          |
| 1000.00    | 0.050              | 228.620        | 999.99      | 0.18              | -0.16         | 3.35         | 759212.85            | 419759.84             | 32°09'04.554"N | 103°29'44.821"W | 0.15             |          |
| 1100.00    | 0.080              | 205.020        | 1099.99     | 0.28              | -0.25         | 3.29         | 759212.79            | 419759.75             | 32°09'04.553"N | 103°29'44.822"W | 0.04             |          |
| 1200.00    | 0.130              | 246.630        | 1199.99     | 0.38              | -0.36         | 3.16         | 759212.66            | 419759.64             | 32°09'04.552"N | 103°29'44.823"W | 0.09             |          |
| 1300.00    | 0.160              | 265.680        | 1299.99     | 0.44              | -0.41         | 2.92         | 759212.42            | 419759.59             | 32°09'04.551"N | 103°29'44.826"W | 0.06             |          |
| 1400.00    | 0.100              | 267.520        | 1399.99     | 0.45              | -0.43         | 2.69         | 759212.19            | 419759.57             | 32°09'04.551"N | 103°29'44.829"W | 0.06             |          |
| 1500.00    | 0.140              | 260.100        | 1499.99     | 0.47              | -0.45         | 2.48         | 759211.98            | 419759.55             | 32°09'04.551"N | 103°29'44.831"W | 0.04             |          |
| 1600.00    | 0.210              | 253.460        | 1599.99     | 0.54              | -0.53         | 2.19         | 759211.69            | 419759.47             | 32°09'04.550"N | 103°29'44.835"W | 0.07             |          |
| 1700.00    | 0.810              | 228.420        | 1699.99     | 1.06              | -1.05         | 1.48         | 759210.98            | 419758.95             | 32°09'04.545"N | 103°29'44.843"W | 0.63             |          |
| 1800.00    | 0.130              | 253.330        | 1799.98     | 1.56              | -1.55         | 0.84         | 759210.34            | 419758.45             | 32°09'04.540"N | 103°29'44.850"W | 0.69             |          |
| 1900.00    | 0.530              | 329.990        | 1899.98     | 1.18              | -1.18         | 0.50         | 759210.00            | 419758.82             | 32°09'04.544"N | 103°29'44.854"W | 0.52             |          |
| 2000.00    | 0.340              | 65.230         | 1999.98     | 0.66              | -0.66         | 0.54         | 759210.04            | 419759.34             | 32°09'04.549"N | 103°29'44.854"W | 0.66             |          |
| 2100.00    | 0.260              | 325.750        | 2099.98     | 0.35              | -0.34         | 0.68         | 759210.18            | 419759.66             | 32°09'04.552"N | 103°29'44.852"W | 0.46             |          |
| 2200.00    | 0.220              | 308.660        | 2199.98     | 0.04              | -0.04         | 0.41         | 759209.91            | 419759.96             | 32°09'04.555"N | 103°29'44.855"W | 0.08             |          |
| 2300.00    | 0.490              | 28.270         | 2299.97     | -0.46             | 0.46          | 0.46         | 759209.96            | 419760.46             | 32°09'04.560"N | 103°29'44.855"W | 0.50             |          |
| 2400.00    | 0.730              | 73.160         | 2399.97     | -1.01             | 1.02          | 1.27         | 759210.77            | 419761.02             | 32°09'04.565"N | 103°29'44.845"W | 0.52             |          |
| 2500.00    | 0.890              | 63.090         | 2499.96     | -1.54             | 1.56          | 2.57         | 759212.07            | 419761.56             | 32°09'04.571"N | 103°29'44.830"W | 0.21             |          |
| 2600.00    | 0.790              | 64.660         | 2599.95     | -2.17             | 2.20          | 3.89         | 759213.39            | 419762.20             | 32°09'04.577"N | 103°29'44.815"W | 0.10             |          |
| 2700.00    | 0.910              | 72.710         | 2699.94     | -2.69             | 2.73          | 5.27         | 759214.77            | 419762.73             | 32°09'04.582"N | 103°29'44.798"W | 0.17             |          |
| 2800.00    | 0.970              | 76.140         | 2799.92     | -3.12             | 3.17          | 6.85         | 759216.35            | 419763.17             | 32°09'04.586"N | 103°29'44.780"W | 0.08             |          |
| 2900.00    | 0.460              | 75.430         | 2899.92     | -3.41             | 3.48          | 8.06         | 759217.56            | 419763.48             | 32°09'04.589"N | 103°29'44.766"W | 0.51             |          |
| 3000.00    | 0.340              | 61.990         | 2999.91     | -3.65             | 3.72          | 8.71         | 759218.21            | 419763.72             | 32°09'04.592"N | 103°29'44.758"W | 0.15             |          |
| 3100.00    | 0.570              | 25.760         | 3099.91     | -4.23             | 4.30          | 9.19         | 759218.69            | 419764.30             | 32°09'04.597"N | 103°29'44.753"W | 0.36             |          |
| 3200.00    | 0.720              | 2.780          | 3199.90     | -5.31             | 5.38          | 9.44         | 759218.93            | 419765.38             | 32°09'04.608"N | 103°29'44.750"W | 0.30             |          |
| 3300.00    | 0.380              | 17.760         | 3299.90     | -6.25             | 6.32          | 9.57         | 759219.07            | 419766.32             | 32°09'04.617"N | 103°29'44.748"W | 0.37             |          |
| 3400.00    | 0.170              | 7.680          | 3399.90     | -6.71             | 6.79          | 9.69         | 759219.19            | 419766.79             | 32°09'04.622"N | 103°29'44.747"W | 0.21             |          |
| 3500.00    | 0.080              | 7.120          | 3499.90     | -6.93             | 7.00          | 9.72         | 759219.22            | 419767.00             | 32°09'04.624"N | 103°29'44.746"W | 0.09             |          |
| 3600.00    | 0.090              | 302.010        | 3599.90     | -7.04             | 7.11          | 9.66         | 759219.16            | 419767.11             | 32°09'04.625"N | 103°29'44.747"W | 0.09             |          |
| 3700.00    | 0.050              | 268.860        | 3699.90     | -7.08             | 7.15          | 9.55         | 759219.05            | 419767.15             | 32°09'04.625"N | 103°29'44.748"W | 0.06             |          |
| 3800.00    | 0.020              | 300.780        | 3799.90     | -7.09             | 7.16          | 9.49         | 759218.99            | 419767.16             | 32°09'04.626"N | 103°29'44.749"W | 0.03             |          |
| 3900.00    | 0.120              | 321.870        | 3899.90     | -7.18             | 7.25          | 9.41         | 759218.91            | 419767.25             | 32°09'04.626"N | 103°29'44.750"W | 0.10             |          |
| 4000.00    | 0.110              | 272.260        | 3999.90     | -7.27             | 7.34          | 9.25         | 759218.75            | 419767.34             | 32°09'04.627"N | 103°29'44.752"W | 0.10             |          |
| 4100.00    | 0.070              | 294.560        | 4099.90     | -7.30             | 7.37          | 9.10         | 759218.60            | 419767.37             | 32°09'04.628"N | 103°29'44.754"W | 0.05             |          |
| 4200.00    | 0.040              | 316.870        | 4199.90     | -7.35             | 7.42          | 9.02         | 759218.52            | 419767.42             | 32°09'04.628"N | 103°29'44.754"W | 0.04             |          |
| 4300.00    | 0.320              | 16.360         | 4299.90     | -7.64             | 7.71          | 9.07         | 759218.57            | 419767.71             | 32°09'04.631"N | 103°29'44.754"W | 0.30             |          |
| 4400.00    | 0.600              | 75.860         | 4399.89     | -8.03             | 8.11          | 9.66         | 759219.16            | 419768.11             | 32°09'04.635"N | 103°29'44.747"W | 0.52             |          |



# Actual Wellpath Report

No.5H AWP

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## REFERENCE WELLPATH IDENTIFICATION

|          |                             |          |           |
|----------|-----------------------------|----------|-----------|
| Operator | EOG Resources, Inc.         | Slot     | No.5H SHL |
| Area     | Lea County, NM              | Well     | No.5H     |
| Field    | (Diamond) Sec 8, T25S, R34E | Wellbore | No.5H AWB |
| Facility | Diamond 8 Fed Com No.5H     |          |           |

## WELLPATH DATA (166 stations)

| MD<br>[ft] | Inclination<br>[°] | Azimuth<br>[°] | TVD<br>[ft] | Vert Sect<br>[ft] | North<br>[ft] | East<br>[ft] | Grid East<br>[US ft] | Grid North<br>[US ft] | Latitude       | Longitude       | DLS<br>[°/100ft] | Comments |
|------------|--------------------|----------------|-------------|-------------------|---------------|--------------|----------------------|-----------------------|----------------|-----------------|------------------|----------|
| 4500.00    | 1.050              | 77.320         | 4499.88     | -8.35             | 8.44          | 11.06        | 759220.56            | 419768.44             | 32°09'04.638"N | 103°29'44.731"W | 0.45             |          |
| 4600.00    | 1.500              | 78.790         | 4599.86     | -8.79             | 8.89          | 13.24        | 759222.74            | 419768.89             | 32°09'04.642"N | 103°29'44.705"W | 0.45             |          |
| 4700.00    | 1.940              | 78.110         | 4699.81     | -9.37             | 9.50          | 16.18        | 759225.68            | 419769.50             | 32°09'04.648"N | 103°29'44.671"W | 0.44             |          |
| 4800.00    | 2.380              | 77.440         | 4799.74     | -10.14            | 10.30         | 19.86        | 759229.36            | 419770.30             | 32°09'04.656"N | 103°29'44.628"W | 0.44             |          |
| 4900.00    | 2.820              | 86.460         | 4899.64     | -10.71            | 10.90         | 24.34        | 759233.84            | 419770.90             | 32°09'04.661"N | 103°29'44.576"W | 0.60             |          |
| 5000.00    | 3.260              | 95.470         | 4999.50     | -10.55            | 10.78         | 29.63        | 759239.13            | 419770.78             | 32°09'04.660"N | 103°29'44.514"W | 0.65             |          |
| 5100.00    | 1.140              | 106.790        | 5099.42     | -9.97             | 10.22         | 33.41        | 759242.91            | 419770.22             | 32°09'04.654"N | 103°29'44.470"W | 2.15             |          |
| 5200.00    | 0.180              | 54.980         | 5199.41     | -9.76             | 10.03         | 34.49        | 759243.99            | 419770.03             | 32°09'04.652"N | 103°29'44.458"W | 1.04             |          |
| 5300.00    | 0.180              | 12.710         | 5299.41     | -10.00            | 10.27         | 34.66        | 759244.16            | 419770.27             | 32°09'04.654"N | 103°29'44.456"W | 0.13             |          |
| 5400.00    | 0.180              | 330.440        | 5399.41     | -10.29            | 10.56         | 34.61        | 759244.11            | 419770.56             | 32°09'04.657"N | 103°29'44.456"W | 0.13             |          |
| 5500.00    | 0.170              | 330.890        | 5499.41     | -10.56            | 10.83         | 34.46        | 759243.96            | 419770.83             | 32°09'04.660"N | 103°29'44.458"W | 0.01             |          |
| 5600.00    | 0.160              | 331.350        | 5599.41     | -10.81            | 11.08         | 34.33        | 759243.82            | 419771.08             | 32°09'04.662"N | 103°29'44.460"W | 0.01             |          |
| 5700.00    | 0.100              | 318.970        | 5699.41     | -11.00            | 11.27         | 34.20        | 759243.70            | 419771.27             | 32°09'04.664"N | 103°29'44.461"W | 0.07             |          |
| 5800.00    | 0.040              | 306.600        | 5799.41     | -11.09            | 11.35         | 34.12        | 759243.62            | 419771.35             | 32°09'04.665"N | 103°29'44.462"W | 0.06             |          |
| 5900.00    | 0.070              | 341.590        | 5899.41     | -11.17            | 11.43         | 34.07        | 759243.57            | 419771.43             | 32°09'04.666"N | 103°29'44.463"W | 0.04             |          |
| 6000.00    | 0.110              | 16.590         | 5999.41     | -11.32            | 11.58         | 34.08        | 759243.58            | 419771.58             | 32°09'04.667"N | 103°29'44.463"W | 0.07             |          |
| 6100.00    | 0.090              | 30.000         | 6099.41     | -11.48            | 11.74         | 34.14        | 759243.64            | 419771.74             | 32°09'04.669"N | 103°29'44.462"W | 0.03             |          |
| 6200.00    | 0.080              | 43.410         | 6199.41     | -11.60            | 11.86         | 34.23        | 759243.73            | 419771.86             | 32°09'04.670"N | 103°29'44.461"W | 0.02             |          |
| 6300.00    | 0.060              | 25.820         | 6299.41     | -11.69            | 11.96         | 34.30        | 759243.80            | 419771.96             | 32°09'04.671"N | 103°29'44.460"W | 0.03             |          |
| 6400.00    | 0.040              | 8.230          | 6399.41     | -11.77            | 12.04         | 34.33        | 759243.83            | 419772.04             | 32°09'04.672"N | 103°29'44.460"W | 0.02             |          |
| 6500.00    | 0.040              | 60.750         | 6499.41     | -11.83            | 12.09         | 34.36        | 759243.86            | 419772.09             | 32°09'04.672"N | 103°29'44.459"W | 0.04             |          |
| 6600.00    | 0.050              | 113.280        | 6599.41     | -11.83            | 12.09         | 34.44        | 759243.93            | 419772.09             | 32°09'04.672"N | 103°29'44.458"W | 0.04             |          |
| 6700.00    | 0.060              | 167.640        | 6699.41     | -11.76            | 12.02         | 34.49        | 759243.99            | 419772.02             | 32°09'04.672"N | 103°29'44.458"W | 0.05             |          |
| 6800.00    | 0.080              | 222.000        | 6799.41     | -11.65            | 11.92         | 34.45        | 759243.95            | 419771.92             | 32°09'04.671"N | 103°29'44.458"W | 0.07             |          |
| 6900.00    | 0.040              | 272.560        | 6899.41     | -11.60            | 11.87         | 34.37        | 759243.87            | 419771.87             | 32°09'04.670"N | 103°29'44.459"W | 0.06             |          |
| 7000.00    | 0.010              | 323.120        | 6999.41     | -11.61            | 11.88         | 34.33        | 759243.83            | 419771.88             | 32°09'04.670"N | 103°29'44.460"W | 0.03             |          |
| 7100.00    | 0.010              | 208.860        | 7099.41     | -11.61            | 11.88         | 34.32        | 759243.82            | 419771.88             | 32°09'04.670"N | 103°29'44.460"W | 0.02             |          |
| 7200.00    | 0.020              | 94.600         | 7199.41     | -11.60            | 11.87         | 34.33        | 759243.83            | 419771.87             | 32°09'04.670"N | 103°29'44.460"W | 0.03             |          |
| 7300.00    | 0.060              | 87.370         | 7299.41     | -11.60            | 11.87         | 34.40        | 759243.90            | 419771.87             | 32°09'04.670"N | 103°29'44.459"W | 0.04             |          |
| 7400.00    | 0.100              | 80.150         | 7399.41     | -11.62            | 11.89         | 34.54        | 759244.04            | 419771.89             | 32°09'04.670"N | 103°29'44.457"W | 0.04             |          |
| 7500.00    | 0.070              | 167.780        | 7499.41     | -11.57            | 11.84         | 34.64        | 759244.14            | 419771.84             | 32°09'04.670"N | 103°29'44.456"W | 0.12             |          |
| 7600.00    | 0.050              | 255.400        | 7599.41     | -11.50            | 11.77         | 34.61        | 759244.11            | 419771.77             | 32°09'04.669"N | 103°29'44.456"W | 0.08             |          |
| 7700.00    | 0.060              | 250.020        | 7699.41     | -11.48            | 11.74         | 34.52        | 759244.02            | 419771.74             | 32°09'04.669"N | 103°29'44.457"W | 0.01             |          |
| 7800.00    | 0.070              | 244.640        | 7799.41     | -11.43            | 11.70         | 34.41        | 759243.91            | 419771.70             | 32°09'04.669"N | 103°29'44.459"W | 0.01             |          |
| 7900.00    | 0.090              | 238.040        | 7899.41     | -11.37            | 11.63         | 34.29        | 759243.79            | 419771.63             | 32°09'04.668"N | 103°29'44.460"W | 0.02             |          |
| 8000.00    | 0.110              | 231.440        | 7999.41     | -11.27            | 11.53         | 34.15        | 759243.65            | 419771.53             | 32°09'04.667"N | 103°29'44.462"W | 0.02             |          |
| 8100.00    | 0.210              | 211.800        | 8099.41     | -11.05            | 11.31         | 33.98        | 759243.48            | 419771.31             | 32°09'04.665"N | 103°29'44.464"W | 0.11             |          |
| 8200.00    | 0.310              | 192.160        | 8199.41     | -10.63            | 10.89         | 33.83        | 759243.33            | 419770.89             | 32°09'04.661"N | 103°29'44.466"W | 0.13             |          |
| 8212.00    | 0.180              | 192.920        | 8211.41     | -10.58            | 10.84         | 33.81        | 759243.31            | 419770.84             | 32°09'04.660"N | 103°29'44.466"W | 1.08             |          |
| 8347.00    | 0.500              | 100.400        | 8346.41     | -10.27            | 10.53         | 34.35        | 759243.85            | 419770.53             | 32°09'04.657"N | 103°29'44.460"W | 0.40             |          |
| 8442.00    | 0.600              | 94.800         | 8441.40     | -10.14            | 10.41         | 35.25        | 759244.75            | 419770.41             | 32°09'04.656"N | 103°29'44.449"W | 0.12             |          |
| 8537.00    | 0.600              | 103.100        | 8536.40     | -9.98             | 10.26         | 36.23        | 759245.73            | 419770.26             | 32°09'04.654"N | 103°29'44.438"W | 0.09             |          |
| 8632.00    | 0.600              | 128.100        | 8631.39     | -9.55             | 9.84          | 37.11        | 759246.61            | 419769.84             | 32°09'04.650"N | 103°29'44.428"W | 0.27             |          |
| 8727.00    | 1.500              | 151.800        | 8726.37     | -8.14             | 8.44          | 38.09        | 759247.58            | 419768.44             | 32°09'04.636"N | 103°29'44.416"W | 1.03             |          |
| 8822.00    | 1.100              | 160.900        | 8821.35     | -6.18             | 6.48          | 38.97        | 759248.47            | 419766.48             | 32°09'04.617"N | 103°29'44.406"W | 0.47             |          |



# Actual Wellpath Report

No.5H AWP

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| REFERENCE WELLPATH IDENTIFICATION |                             |          |           |
|-----------------------------------|-----------------------------|----------|-----------|
| Operator                          | EOG Resources, Inc.         | Slot     | No.5H SHL |
| Area                              | Lea County, NM              | Well     | No.5H     |
| Field                             | (Diamond) Sec 8, T25S, R34E | Wellbore | No.5H AWP |
| Facility                          | Diamond 8 Fed Com No.5H     |          |           |

## WELLPATH DATA (166 stations)

| MD<br>[ft] | Inclination<br>[°] | Azimuth<br>[°] | TVD<br>[ft] | Vert Sect<br>[ft] | North<br>[ft] | East<br>[ft] | Grid East<br>[US ft] | Grid North<br>[US ft] | Latitude       | Longitude       | DLS<br>[°/100ft] | Comments |
|------------|--------------------|----------------|-------------|-------------------|---------------|--------------|----------------------|-----------------------|----------------|-----------------|------------------|----------|
| 8853.00    | 1.800              | 163.700        | 8852.34     | -5.43             | 5.73          | 39.21        | 759248.70            | 419765.73             | 32°09'04.609"N | 103°29'44.403"W | 2.27             |          |
| 8885.00    | 5.300              | 169.300        | 8884.27     | -3.49             | 3.80          | 39.62        | 759249.12            | 419763.80             | 32°09'04.590"N | 103°29'44.399"W | 10.98            |          |
| 8917.00    | 9.300              | 170.200        | 8916.01     | 0.52              | -0.21         | 40.34        | 759249.84            | 419759.79             | 32°09'04.550"N | 103°29'44.391"W | 12.50            |          |
| 8948.00    | 13.600             | 172.200        | 8946.38     | 6.61              | -6.29         | 41.26        | 759250.76            | 419753.71             | 32°09'04.490"N | 103°29'44.381"W | 13.93            |          |
| 8980.00    | 17.000             | 175.500        | 8977.25     | 15.01             | -14.68        | 42.13        | 759251.63            | 419745.32             | 32°09'04.407"N | 103°29'44.371"W | 10.96            |          |
| 9012.00    | 20.000             | 179.700        | 9007.59     | 25.15             | -24.82        | 42.53        | 759252.03            | 419735.18             | 32°09'04.307"N | 103°29'44.368"W | 10.25            |          |
| 9043.00    | 23.100             | 182.800        | 9036.42     | 36.52             | -36.20        | 42.26        | 759251.76            | 419723.80             | 32°09'04.194"N | 103°29'44.372"W | 10.65            |          |
| 9075.00    | 25.400             | 183.100        | 9065.59     | 49.64             | -49.32        | 41.58        | 759251.08            | 419710.68             | 32°09'04.064"N | 103°29'44.381"W | 7.20             |          |
| 9107.00    | 25.000             | 182.000        | 9094.55     | 63.25             | -62.93        | 40.98        | 759250.48            | 419697.07             | 32°09'03.929"N | 103°29'44.389"W | 1.92             |          |
| 9139.00    | 24.300             | 180.900        | 9123.63     | 76.59             | -76.28        | 40.64        | 759250.14            | 419683.73             | 32°09'03.798"N | 103°29'44.394"W | 2.62             |          |
| 9170.00    | 26.000             | 181.500        | 9151.69     | 89.75             | -89.45        | 40.36        | 759249.86            | 419670.55             | 32°09'03.667"N | 103°29'44.399"W | 5.55             |          |
| 9202.00    | 27.800             | 182.800        | 9180.23     | 104.22            | -103.91       | 39.81        | 759249.31            | 419656.09             | 32°09'03.524"N | 103°29'44.406"W | 5.92             |          |
| 9234.00    | 29.800             | 183.900        | 9208.27     | 119.60            | -119.30       | 38.91        | 759248.40            | 419640.70             | 32°09'03.372"N | 103°29'44.418"W | 6.47             |          |
| 9266.00    | 33.300             | 183.800        | 9235.54     | 136.29            | -136.00       | 37.78        | 759247.28            | 419624.00             | 32°09'03.207"N | 103°29'44.433"W | 10.94            |          |
| 9298.00    | 36.500             | 183.800        | 9261.78     | 154.55            | -154.27       | 36.57        | 759246.07            | 419605.73             | 32°09'03.026"N | 103°29'44.449"W | 10.00            |          |
| 9329.00    | 39.400             | 182.700        | 9286.22     | 173.57            | -173.30       | 35.49        | 759244.99            | 419586.70             | 32°09'02.838"N | 103°29'44.463"W | 9.61             |          |
| 9358.00    | 42.300             | 182.300        | 9308.15     | 192.51            | -192.25       | 34.67        | 759244.17            | 419567.75             | 32°09'02.650"N | 103°29'44.474"W | 10.04            |          |
| 9390.00    | 45.400             | 181.600        | 9331.23     | 214.66            | -214.40       | 33.92        | 759243.42            | 419545.60             | 32°09'02.431"N | 103°29'44.485"W | 9.81             |          |
| 9420.00    | 48.600             | 180.700        | 9351.69     | 236.59            | -236.34       | 33.48        | 759242.98            | 419523.67             | 32°09'02.214"N | 103°29'44.492"W | 10.89            |          |
| 9451.00    | 51.600             | 180.000        | 9371.57     | 260.36            | -260.11       | 33.34        | 759242.84            | 419499.89             | 32°09'01.979"N | 103°29'44.496"W | 9.83             |          |
| 9484.00    | 55.000             | 178.800        | 9391.29     | 286.82            | -286.57       | 33.62        | 759243.12            | 419473.44             | 32°09'01.717"N | 103°29'44.495"W | 10.71            |          |
| 9516.00    | 58.200             | 178.200        | 9408.90     | 313.52            | -313.27       | 34.33        | 759243.82            | 419446.74             | 32°09'01.453"N | 103°29'44.489"W | 10.12            |          |
| 9547.00    | 61.200             | 178.200        | 9424.54     | 340.28            | -340.02       | 35.17        | 759244.67            | 419419.99             | 32°09'01.188"N | 103°29'44.482"W | 9.68             |          |
| 9578.00    | 64.600             | 178.800        | 9438.66     | 367.87            | -367.60       | 35.89        | 759245.39            | 419392.40             | 32°09'00.915"N | 103°29'44.476"W | 11.10            |          |
| 9610.00    | 68.300             | 178.800        | 9451.44     | 397.19            | -396.92       | 36.50        | 759246.00            | 419363.08             | 32°09'00.625"N | 103°29'44.471"W | 11.56            |          |
| 9642.00    | 71.900             | 179.500        | 9462.33     | 427.28            | -427.01       | 36.94        | 759246.44            | 419333.00             | 32°09'00.327"N | 103°29'44.469"W | 11.44            |          |
| 9674.00    | 75.500             | 179.900        | 9471.31     | 457.99            | -457.71       | 37.10        | 759246.60            | 419302.29             | 32°09'00.023"N | 103°29'44.470"W | 11.31            |          |
| 9705.00    | 79.100             | 180.300        | 9478.13     | 488.22            | -487.95       | 37.05        | 759246.55            | 419272.06             | 32°08'59.724"N | 103°29'44.473"W | 11.68            |          |
| 9737.00    | 82.700             | 180.400        | 9483.19     | 519.81            | -519.54       | 36.86        | 759246.36            | 419240.47             | 32°08'59.412"N | 103°29'44.478"W | 11.25            |          |
| 9769.00    | 86.100             | 180.200        | 9486.31     | 551.65            | -551.38       | 36.69        | 759246.19            | 419208.62             | 32°08'59.096"N | 103°29'44.483"W | 10.64            |          |
| 9800.00    | 89.200             | 180.700        | 9487.58     | 582.62            | -582.35       | 36.45        | 759245.95            | 419177.66             | 32°08'58.790"N | 103°29'44.489"W | 10.13            |          |
| 9832.00    | 89.900             | 180.300        | 9487.83     | 614.61            | -614.35       | 36.17        | 759245.67            | 419145.66             | 32°08'58.473"N | 103°29'44.495"W | 2.52             |          |
| 9863.00    | 89.500             | 179.300        | 9487.99     | 645.61            | -645.35       | 36.28        | 759245.78            | 419114.66             | 32°08'58.167"N | 103°29'44.496"W | 3.47             |          |
| 9958.00    | 90.100             | 178.500        | 9488.33     | 740.60            | -740.33       | 38.10        | 759247.60            | 419019.68             | 32°08'57.227"N | 103°29'44.484"W | 1.05             |          |
| 10053.00   | 90.100             | 178.800        | 9488.16     | 835.59            | -835.30       | 40.34        | 759249.84            | 418924.71             | 32°08'56.287"N | 103°29'44.466"W | 0.32             |          |
| 10147.00   | 90.300             | 179.300        | 9487.83     | 929.58            | -929.29       | 41.90        | 759251.40            | 418830.73             | 32°08'55.357"N | 103°29'44.457"W | 0.57             |          |
| 10241.00   | 91.100             | 179.900        | 9486.68     | 1023.58           | -1023.28      | 42.55        | 759252.05            | 418736.74             | 32°08'54.426"N | 103°29'44.458"W | 1.06             |          |
| 10337.00   | 89.500             | 179.000        | 9486.18     | 1119.57           | -1119.27      | 43.47        | 759252.97            | 418640.75             | 32°08'53.477"N | 103°29'44.456"W | 1.91             |          |
| 10431.00   | 89.500             | 180.400        | 9487.00     | 1213.56           | -1213.26      | 43.97        | 759253.47            | 418546.76             | 32°08'52.546"N | 103°29'44.458"W | 1.49             |          |
| 10526.00   | 89.500             | 180.300        | 9487.83     | 1308.55           | -1308.26      | 43.39        | 759252.89            | 418451.76             | 32°08'51.606"N | 103°29'44.474"W | 0.11             |          |
| 10621.00   | 89.700             | 181.200        | 9488.49     | 1403.53           | -1403.25      | 42.14        | 759251.64            | 418356.78             | 32°08'50.667"N | 103°29'44.497"W | 0.97             |          |
| 10716.00   | 89.800             | 183.300        | 9488.91     | 1498.42           | -1498.17      | 38.41        | 759247.91            | 418261.86             | 32°08'49.728"N | 103°29'44.549"W | 2.21             |          |
| 10808.00   | 90.000             | 181.300        | 9489.07     | 1590.31           | -1590.09      | 34.72        | 759244.22            | 418169.94             | 32°08'48.818"N | 103°29'44.600"W | 2.18             |          |
| 10903.00   | 89.700             | 179.500        | 9489.32     | 1685.29           | -1685.08      | 34.06        | 759243.56            | 418074.95             | 32°08'47.878"N | 103°29'44.616"W | 1.92             |          |
| 10997.00   | 89.800             | 180.000        | 9489.73     | 1779.29           | -1779.08      | 34.47        | 759243.97            | 417980.95             | 32°08'46.948"N | 103°29'44.620"W | 0.54             |          |





# Actual Wellpath Report

No.5H AWP

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## REFERENCE WELLPATH IDENTIFICATION

|          |                             |          |           |
|----------|-----------------------------|----------|-----------|
| Operator | EOG Resources, Inc.         | Slot     | No.5H SHL |
| Area     | Lea County, NM              | Well     | No.5H     |
| Field    | (Diamond) Sec 8, T25S, R34E | Wellbore | No.5H AWP |
| Facility | Diamond 8 Fed Com No.5H     |          |           |

## WELLPATH DATA (166 stations)

| MD<br>[ft] | Inclination<br>[°] | Azimuth<br>[°] | TVD<br>[ft] | Vert Sect<br>[ft] | North<br>[ft] | East<br>[ft] | Grid East<br>[US ft] | Grid North<br>[US ft] | Latitude       | Longitude       | DLS<br>[°/100ft] | Comments    |
|------------|--------------------|----------------|-------------|-------------------|---------------|--------------|----------------------|-----------------------|----------------|-----------------|------------------|-------------|
| 11092.00   | 89.700             | 180.400        | 9490.14     | 1874.28           | -1874.08      | 34.14        | 759243.64            | 417885.95             | 32°08'46.008"N | 103°29'44.633"W | 0.43             |             |
| 11187.00   | 89.700             | 180.400        | 9490.64     | 1969.27           | -1969.07      | 33.47        | 759242.97            | 417790.96             | 32°08'45.068"N | 103°29'44.649"W | 0.00             |             |
| 11282.00   | 89.800             | 181.600        | 9491.05     | 2064.24           | -2064.06      | 31.82        | 759241.32            | 417695.98             | 32°08'44.129"N | 103°29'44.677"W | 1.27             |             |
| 11376.00   | 89.900             | 181.200        | 9491.30     | 2158.19           | -2158.03      | 29.52        | 759239.02            | 417602.01             | 32°08'43.199"N | 103°29'44.712"W | 0.44             |             |
| 11471.00   | 89.800             | 181.100        | 9491.55     | 2253.15           | -2253.01      | 27.61        | 759237.11            | 417507.03             | 32°08'42.259"N | 103°29'44.743"W | 0.15             |             |
| 11565.00   | 89.800             | 181.000        | 9491.88     | 2347.12           | -2346.99      | 25.89        | 759235.39            | 417413.05             | 32°08'41.329"N | 103°29'44.771"W | 0.11             |             |
| 11660.00   | 89.500             | 180.300        | 9492.46     | 2442.10           | -2441.98      | 24.81        | 759234.31            | 417318.06             | 32°08'40.389"N | 103°29'44.792"W | 0.80             |             |
| 11756.00   | 89.700             | 179.000        | 9493.13     | 2538.10           | -2537.98      | 25.40        | 759234.90            | 417222.06             | 32°08'39.439"N | 103°29'44.794"W | 1.37             |             |
| 11850.00   | 89.400             | 178.200        | 9493.87     | 2632.08           | -2631.94      | 27.70        | 759237.19            | 417128.10             | 32°08'38.509"N | 103°29'44.776"W | 0.91             |             |
| 11945.00   | 89.400             | 177.800        | 9494.86     | 2727.04           | -2726.88      | 31.01        | 759240.51            | 417033.16             | 32°08'37.570"N | 103°29'44.746"W | 0.42             |             |
| 12039.00   | 89.300             | 178.000        | 9495.93     | 2820.99           | -2820.81      | 34.45        | 759243.95            | 416939.23             | 32°08'36.640"N | 103°29'44.714"W | 0.24             |             |
| 12134.00   | 89.300             | 178.400        | 9497.09     | 2915.96           | -2915.76      | 37.44        | 759246.94            | 416844.29             | 32°08'35.700"N | 103°29'44.688"W | 0.42             |             |
| 12229.00   | 89.300             | 178.300        | 9498.25     | 3010.93           | -3010.71      | 40.17        | 759249.67            | 416749.34             | 32°08'34.760"N | 103°29'44.665"W | 0.11             |             |
| 12324.00   | 89.300             | 179.000        | 9499.41     | 3105.91           | -3105.68      | 42.41        | 759251.91            | 416654.37             | 32°08'33.821"N | 103°29'44.648"W | 0.74             |             |
| 12418.00   | 89.400             | 180.600        | 9500.48     | 3199.90           | -3199.67      | 42.74        | 759252.24            | 416560.38             | 32°08'32.890"N | 103°29'44.652"W | 1.71             |             |
| 12513.00   | 89.300             | 181.100        | 9501.55     | 3294.87           | -3294.65      | 41.33        | 759250.83            | 416465.40             | 32°08'31.951"N | 103°29'44.677"W | 0.54             |             |
| 12608.00   | 89.400             | 180.300        | 9502.63     | 3389.85           | -3389.64      | 40.17        | 759249.67            | 416370.42             | 32°08'31.011"N | 103°29'44.699"W | 0.85             |             |
| 12702.00   | 89.200             | 179.700        | 9503.78     | 3483.84           | -3483.63      | 40.17        | 759249.67            | 416276.43             | 32°08'30.081"N | 103°29'44.708"W | 0.67             |             |
| 12797.00   | 89.400             | 180.600        | 9504.94     | 3578.82           | -3578.62      | 39.92        | 759249.42            | 416181.44             | 32°08'29.141"N | 103°29'44.719"W | 0.97             |             |
| 12892.00   | 89.500             | 180.900        | 9505.85     | 3673.80           | -3673.61      | 38.68        | 759248.18            | 416086.45             | 32°08'28.201"N | 103°29'44.743"W | 0.33             |             |
| 12987.00   | 89.100             | 179.000        | 9507.01     | 3768.78           | -3768.60      | 38.76        | 759248.26            | 415991.46             | 32°08'27.261"N | 103°29'44.750"W | 2.04             |             |
| 13081.00   | 89.300             | 179.100        | 9508.33     | 3862.77           | -3862.57      | 40.32        | 759249.82            | 415897.49             | 32°08'26.331"N | 103°29'44.741"W | 0.24             |             |
| 13176.00   | 89.900             | 179.700        | 9508.99     | 3957.77           | -3957.57      | 41.31        | 759250.81            | 415802.50             | 32°08'25.391"N | 103°29'44.738"W | 0.89             |             |
| 13271.00   | 90.300             | 183.600        | 9508.82     | 4052.68           | -4052.51      | 38.58        | 759248.08            | 415707.56             | 32°08'24.452"N | 103°29'44.778"W | 4.13             |             |
| 13365.00   | 90.400             | 184.100        | 9508.25     | 4146.42           | -4146.29      | 32.27        | 759241.77            | 415613.77             | 32°08'23.524"N | 103°29'44.860"W | 0.54             |             |
| 13460.00   | 89.000             | 181.300        | 9508.75     | 4241.26           | -4241.18      | 27.79        | 759237.29            | 415518.89             | 32°08'22.586"N | 103°29'44.920"W | 3.30             |             |
| 13558.00   | 90.100             | 181.600        | 9509.52     | 4339.21           | -4339.14      | 25.31        | 759234.81            | 415420.93             | 32°08'21.616"N | 103°29'44.958"W | 1.16             |             |
| 13653.00   | 91.100             | 179.500        | 9508.52     | 4434.18           | -4434.12      | 24.40        | 759233.90            | 415325.95             | 32°08'20.677"N | 103°29'44.977"W | 2.45             |             |
| 13748.00   | 91.300             | 178.300        | 9506.53     | 4529.15           | -4529.08      | 26.22        | 759235.72            | 415230.99             | 32°08'19.737"N | 103°29'44.965"W | 1.28             |             |
| 13780.00   | 91.400             | 178.500        | 9505.78     | 4561.14           | -4561.06      | 27.12        | 759236.62            | 415199.01             | 32°08'19.420"N | 103°29'44.957"W | 0.70             |             |
| 13805.00   | 91.400             | 178.500        | 9505.17     | 4586.12           | -4586.05      | 27.77        | 759237.27            | 415174.03             | 32°08'19.173"N | 103°29'44.952"W | 0.00             | Proj to Bit |



# Actual Wellpath Report

No.5H AWP

Page 6 of 6



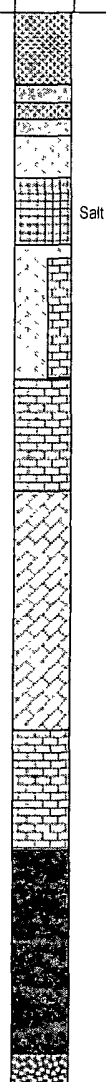
| REFERENCE WELLPATH IDENTIFICATION |                             |          |           |
|-----------------------------------|-----------------------------|----------|-----------|
| Operator                          | EOG Resources, Inc.         | Slot     | No.5H SHL |
| Area                              | Lea County, NM              | Well     | No.5H     |
| Field                             | (Diamond) Sec 8, T25S, R34E | Wellbore | No.5H AWB |
| Facility                          | Diamond 8 Fed Com No.5H     |          |           |

| TARGETS            |            |             |               |              |                      |                       |                |                 |       |
|--------------------|------------|-------------|---------------|--------------|----------------------|-----------------------|----------------|-----------------|-------|
| Name               | MD<br>[ft] | TVD<br>[ft] | North<br>[ft] | East<br>[ft] | Grid East<br>[US ft] | Grid North<br>[US ft] | Latitude       | Longitude       | Shape |
| No.5H PBHL (Rev-0) |            | 9510.00     | -4614.57      | 35.50        | 759245.00            | 415145.50             | 32°08'18.890"N | 103°29'44.865"W | point |

| WELLPATH COMPOSITION - Ref Wellbore: No.5H AWB |                |                                        |  |                              | Ref Wellpath: No.5H AWP |           |
|------------------------------------------------|----------------|----------------------------------------|--|------------------------------|-------------------------|-----------|
| Start MD<br>[ft]                               | End MD<br>[ft] | Positional Uncertainty Model           |  | Log Name/Comment             |                         | Wellbore  |
| 0.00                                           | 8212.00        | Generic gyro - northseeking (Standard) |  | Gyro <100-8212>              |                         | No.5H AWB |
| 8212.00                                        | 13780.00       | NaviTrak (Standard)                    |  | BHI MWD NaviTrak <8347-XXXX> |                         | No.5H AWB |
| 13780.00                                       | 13805.00       | Blind Drilling (std)                   |  | Projection to bit            |                         | No.5H AWB |



# COMPLETED WELL SKETCH

| DEPTH<br>(ft) | MARKERS<br>(KB)           | LITHOLOGY                                                                          | OGRID:<br>API: 30-025-40552<br>AFE: 105000<br>SPUD: 6/22/12 @ 22 00 hrs<br>FRR: 7/12/12 @ 06 00 hrs<br>RIG: Cactus #123                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Diamond 8 Fed Com #5H<br>Red Hills(Bone Spring) Field<br>Lea County, New Mexico | SURF: 330' FNL & 1310' FWL<br>LOC: Sec 8<br>SURVEY: T-25-S, R-34-E<br>GL: 3386 4'<br>KB: 3416 4'<br>ZERO: 30 0' AGL | HOLE SIZE | MW (ppg)  | MUD         | BHST (°F) | LOT (ppg) | EVALUATION |         |         |     |     |     |     |         |     |    |    |  |  |
|---------------|---------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|-----------|-----------|-------------|-----------|-----------|------------|---------|---------|-----|-----|-----|-----|---------|-----|----|----|--|--|
| 2,000'        | Rustler - 1100'           |  | <p>20" Conductor @ 120'</p> <p>Surface Casing @ 1,222'</p> <p>13-3/8" 54 5# J-55 STC<br/>Cement w/ 600 sx Class C + 4.0% Bentonite + 0.5% CaCl2 + 0.25 pps Celloflake (13.5 ppg, 1.734 yld), followed by 300 sx Class C + 1.0% CaCl2 (14.8 ppg, 1.335 yld) Bump plug w/ 900 psi and circ 237 sx to surface</p> <p>TOC @ 4,500'</p> <p>Intermediate Casing @ 5,135'</p> <p>9-5/8", 40# J-55, LT&amp;C (0' - 3,853')<br/>9-5/8", 40# HCK-55, LT&amp;C (3,853' - 5,135')<br/>Cement w/ 1125 sx Class C + 2.0% SMS + 10.0% Salt + 1.05% R-3 + 0.25 pps Celloflake (12.7 ppg, 2.218 yld), followed by 200 sx Class C + 0.60% FL-62 + 0.25% CD-32 + 0.15% SMS + 0.2% R-3 (14.8 ppg, 1.334 yld). Bump plug w/ 1815 psi and cir 288 sx to surface</p> <p>Perforations MD: 13,750, 13,696, 13,642, 13,588, 13,534; 13,485, 13,426; 13,372, 13,318, 13,260, 13,210; 13,156; 13,102; 13,048; 12,994; 12,940; 12,886; 12,836; 12,778; 12,724, 12,670; 12,616; 12,562; 12,508; 12,454, 12,400; 12,346; 12,292; 12,240, 12,184; 12,130, 12,076; 12,026, 11,968, 11,914, 11,860, 11,802; 11,752; 11,698, 11,640; 11,588; 11,536, 11,482, 11,428; 11,370; 11,320; 11,266, 11,212; 11,164; 11,104; 11,050, 10,996, 10,942; 10,888, 10,834, 10,780; 10,722; 10,672, 10,618; 10,564; 10,513, 10,456; 10,402, 10,348; 10,294, 10,240; 10,184; 10,132; 10,078, 10,024, 9,970, 9,910, 9,862; 9,808</p> <table><tr><th>HOLE</th><th>MW (ppg)</th><th>MUD</th><th>BHST (°F)</th><th>LOT (ppg)</th><th>EVAL</th></tr><tr><td>8-3/4"</td><td>9 0-9 3</td><td>CBW</td><td>156</td><td>N/A</td><td>Mud</td></tr></table> <p>KOP @ 8,847' md/tvd<br/>EOC @ -9,797' md /9475' tvd @ 89.5° inclination<br/>10°/100' build rate<br/>Hold 89.5° inclination to TD</p> <p>Production Casing @ 13,767' MD, 9,505' TVD<br/>5-1/2" 17# HCP-110 LTC (MJ @ 8675)<br/>Cement w/ 375 sx Class C + 15.0% BA-90 + 4.0% MPA-5 + 3.0% SMS + 5.0% A-10 + 1.0% BA-10A + 0.80% ASA-301 + 3.0% R-21 + 8.0 pps LCM-1 (10.8 ppg, 3.681 yld), followed by 400 sx Class H + 0.80% FL-52 + 0.80% ASA-301 + 0.50% SMS + 2.0% Salt + 0.30% R-21 + 3.0 pps LCM-1 + 0.25 pps Celloflake (11.8 ppg, 2.38 yld), followed by 1200 sx Class H + 0.65% FL-52 + 0.50% CD-32 + 0.20% SMS + 2.0% Salt (14.2 ppg, 1.277 yld) Bump plug w/ 180 psi. Did not circ cement to surface</p> |                                                                                 |                                                                                                                     | HOLE      | MW (ppg)  | MUD         | BHST (°F) | LOT (ppg) | EVAL       | 8-3/4"  | 9 0-9 3 | CBW | 156 | N/A | Mud | 17-1/2" | 8 6 | FW | 65 |  |  |
| HOLE          | MW (ppg)                  |                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                 |                                                                                                                     | MUD       | BHST (°F) | LOT (ppg)   | EVAL      |           |            |         |         |     |     |     |     |         |     |    |    |  |  |
| 8-3/4"        | 9 0-9 3                   |                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                 |                                                                                                                     | CBW       | 156       | N/A         | Mud       |           |            |         |         |     |     |     |     |         |     |    |    |  |  |
| 3,000'        | T / Salado - 1420'        |                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                 |                                                                                                                     | 12-1/4"   | 10 0      | Brine Water |           | NA        | Mud Log    |         |         |     |     |     |     |         |     |    |    |  |  |
| 5,000'        | B / Salado - 5050'        |                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                 |                                                                                                                     | 8-3/4"    | 9 0       | WBM         |           | 117       | N/A        | Mud Log |         |     |     |     |     |         |     |    |    |  |  |
| 6,000'        | Lamar - 5260'             |                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                 |                                                                                                                     |           |           |             |           |           |            |         |         |     |     |     |     |         |     |    |    |  |  |
| 7,000'        | Bell Canyon - 5288'       |                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                 |                                                                                                                     |           |           |             |           |           |            |         |         |     |     |     |     |         |     |    |    |  |  |
| 8,000'        | Cherry Canyon - 6260'     |                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                 |                                                                                                                     |           |           |             |           |           |            |         |         |     |     |     |     |         |     |    |    |  |  |
| 9,000'        | Brushy Canyon - 7860'     |                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                 |                                                                                                                     |           |           |             |           |           |            |         |         |     |     |     |     |         |     |    |    |  |  |
| 10,000'       | Bone Spring Lime - 9240'  |                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                 |                                                                                                                     |           |           |             |           |           |            |         |         |     |     |     |     |         |     |    |    |  |  |
| 11,000'       | Massive Carbonate - 9650' |                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                 |                                                                                                                     |           |           |             |           |           |            |         |         |     |     |     |     |         |     |    |    |  |  |
|               |                           |                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                 |                                                                                                                     | 156       |           |             |           |           |            |         |         |     |     |     |     |         |     |    |    |  |  |

Comp Eng:

R. Willett

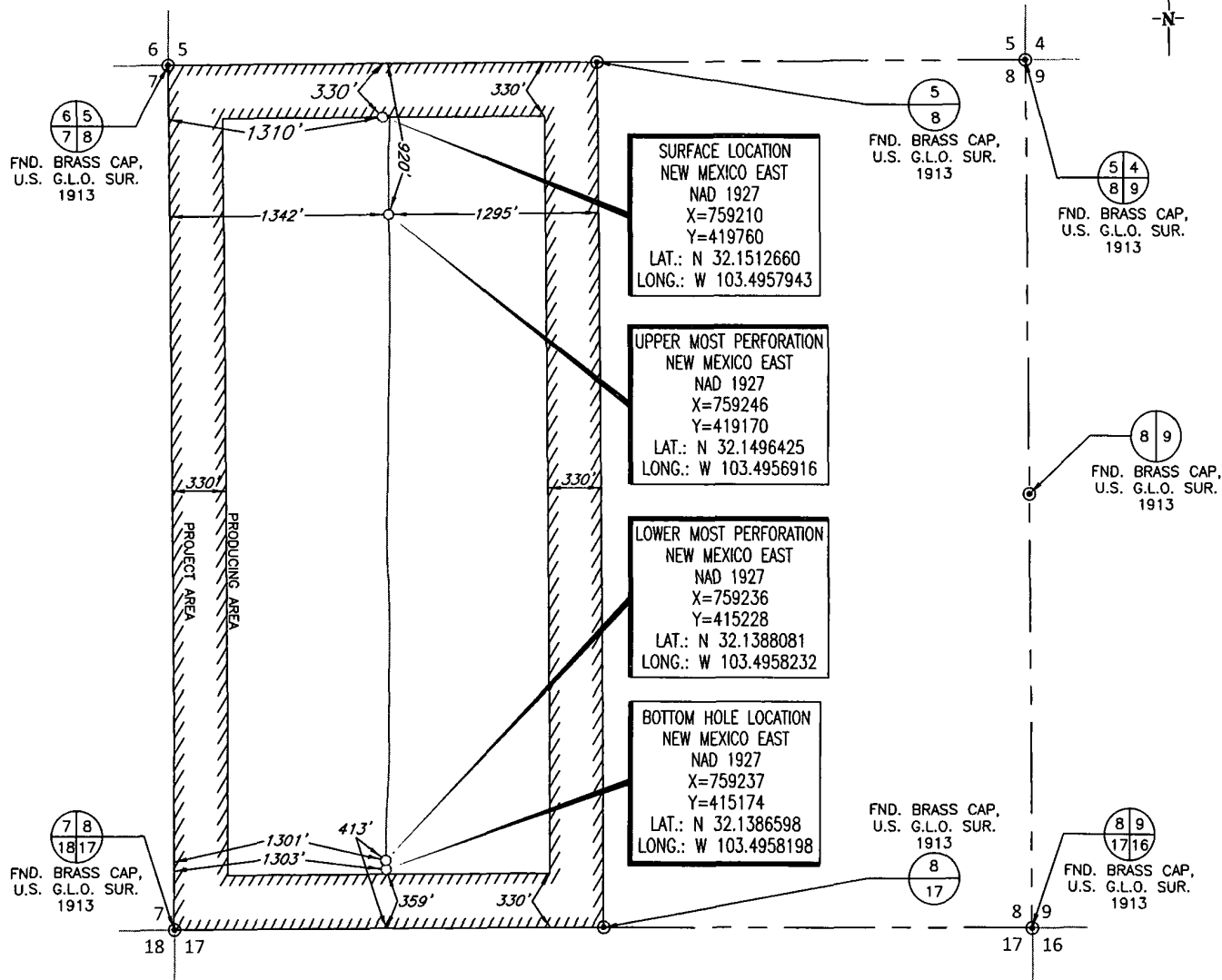
Date:

8/26/2012

SCALE 1" = 1000'  
0' 500' 1000'



SECTION 8, TOWNSHIP 25 SOUTH, RANGE 34 EAST, N.M.P.M.  
LEA COUNTY, NEW MEXICO

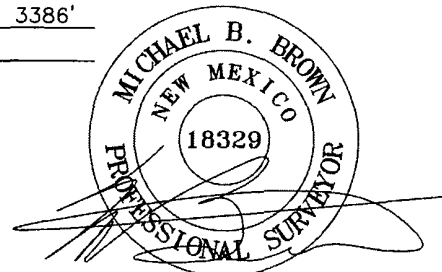


LEASE NAME & WELL NO.: DIAMOND 8 FED COM #5H  
SECTION 8 TWP 25-S RGE 34-E SURVEY N.M.P.M.  
COUNTY LEA STATE NM ELEVATION 3386'  
DESCRIPTION 330' FNL & 1310' FWL

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE OF THE NORTH AMERICAN DATUM 1927, U.S. SURVEY FEET

THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY EOG RESOURCES, INC. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY

ORIGINAL DOCUMENT SIZE: 8.5" X 11"



Michael Blake Brown, P.S. No. 18329  
SEPTEMBER 4, 2012

**TOPOGRAPHIC**

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| DIAMOND 8 FED COM<br>#5H AS-DRILLED | REVISION: |  |
|-------------------------------------|-----------|--|
|                                     |           |  |
| DATE: SEPTEMBER 4, 2012             |           |  |
| FILE: AD_DIAMOND8FEDCOM_5H          |           |  |
| DRAWN BY: S.V.                      |           |  |
| SHEET: 1 OF 1                       |           |  |