

# EOG RESOURCES

Location: COLORADO Slot: Slot #02 Hebron #05-18H 310'FNL & 2342'FEL  
Field: JACKSON COUNTY Well: Hebron #5-18H  
Facility: Sec.18-T7N-R80W Wellbore: Hebron #5-18H AWB

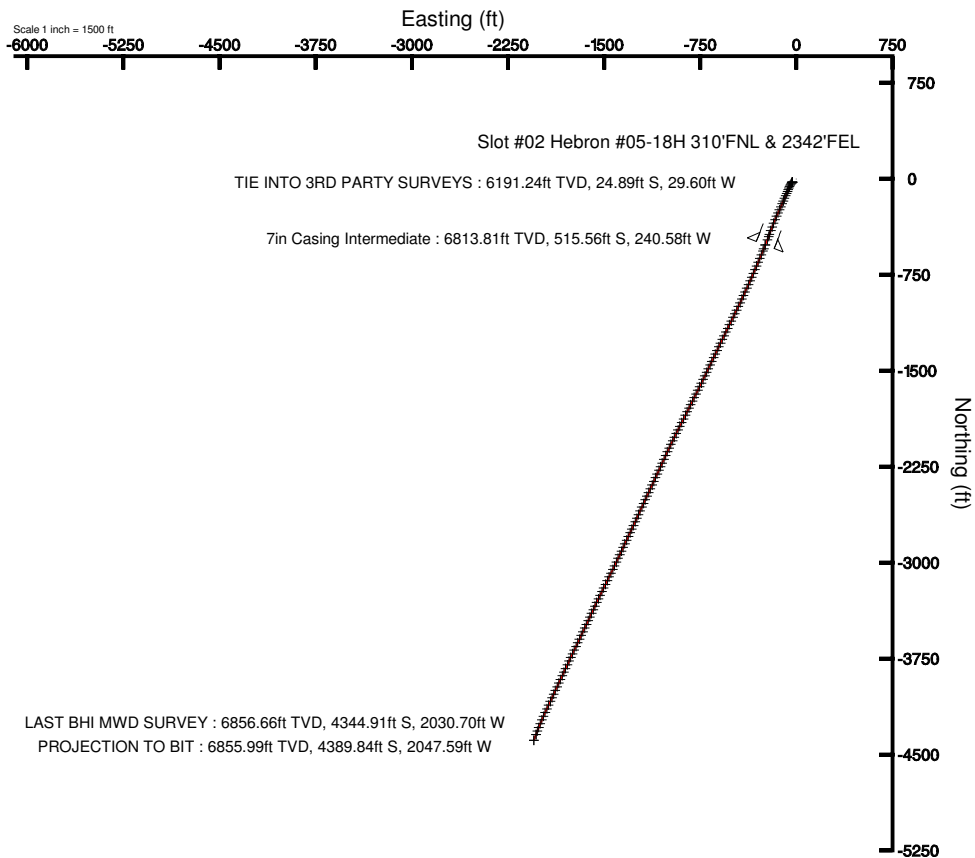
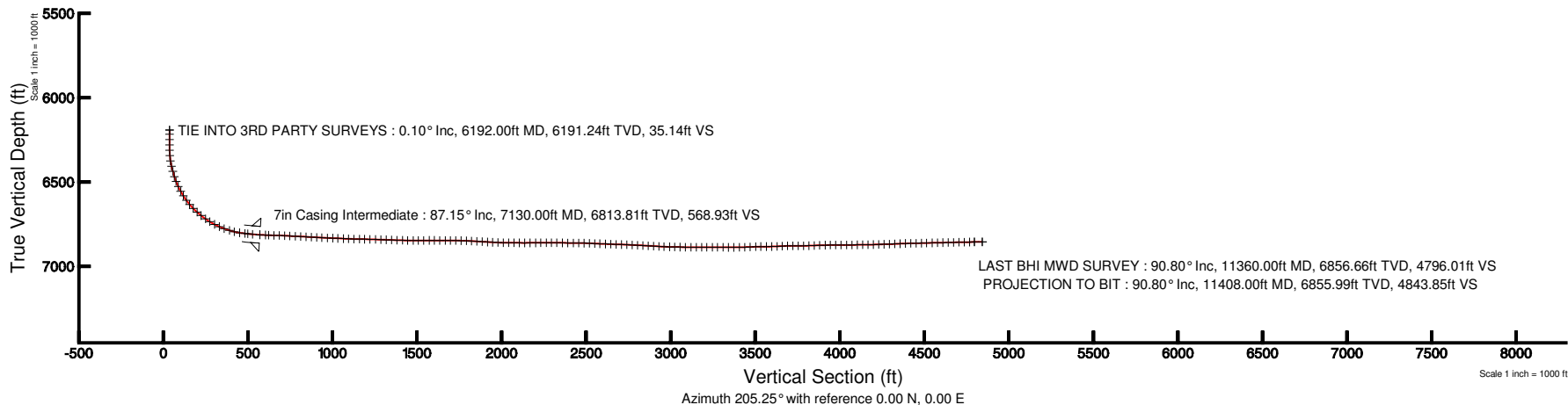
Plot reference wellpath is Hebron #5-18H AWP

|   |  |
|---|--|
| True vertical depths are referenced to Rig on Slot #02 Hebron #05-18H 310'FNL & 2342'FEL (RT) | Grid System: NAD83 / Lambert Colorado State Planes, Northern Zone (501), US feet |
| Measured depths are referenced to Rig on Slot #02 Hebron #05-18H 310'FNL & 2342'FEL (RT)      | North Reference: True north  |
| Rig on Slot #02 Hebron #05-18H 310'FNL & 2342'FEL (RT) to Mean Sea Level: 8173 feet           | Scale: True distance   |
| Mean Sea Level to Mud line (Facility: Sec.18-T7N-R80W): 0 feet                                | Depths are in feet   |
| Coordinates are in feet referenced to Slot  | Created by: berniaja on 12/9/2010  |



BGGM (1945.0 to 2011.0) Dip: 66.95° Field: 53166.7 nT  
Magnetic North is 9.77 degrees East of True North (at 12/9/2010)

To correct azimuth from Magnetic to True add 9.77 degrees  
For example: if the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 9.77 = 99.77





# Actual Wellpath Report

Hebron #5-18H AWP

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## REFERENCE WELLPATH IDENTIFICATION

|          |                 |          |  |
|----------|-----------------|----------|--|
| Operator | EOG RESOURCES   | Slot     | Slot #02 Hebron #05-18H 310'FNL & 2342'FEL |
| Area     | COLORADO        | Well     | Hebron #5-18H                              |
| Field    | JACKSON COUNTY  | Wellbore | Hebron #5-18H AWB                          |
| Facility | Sec.18-T7N-R80W |          |  |

## REPORT SETUP INFORMATION

|                     |   |                      |                                 |
|---------------------|---|----------------------|---------------------------------|
| Projection System   | NAD83 / Lambert Colorado State Planes, Northern Zone (501), US feet | Software System      | WellArchitect® 2.0              |
| North Reference     | True  | User                 | Bensjacj                        |
| Scale               | 0.999974  | Report Generated     | 12/9/2010 at 4:45:21 PM         |
| Convergence at slot | 0.59° West  | Database/Source file | WA_Denver/Hebron_#5-18H_AWB.xml |

## WELLPATH LOCATION

|                       | Local coordinates |          | Grid coordinates |                | Geographic coordinates |                 |
|-----------------------|-------------------|----------|------------------|----------------|------------------------|-----------------|
|                       | North[ft]         | East[ft] | Easting[USft]    | Northing[USft] | Latitude               | Longitude       |
| Slot Location         | -2.02             | -16.20   | 2745707.04       | 1456961.93     | 40°35'02.960"N         | 106°24'55.980"W |
| Facility Reference Pt |                   |          | 2745723.26       | 1456963.78     | 40°35'02.980"N         | 106°24'55.770"W |
| Field Reference Pt    |                   |          | 2745723.26       | 1456963.78     | 40°35'02.980"N         | 106°24'55.770"W |

## WELLPATH DATUM

|                          |  |   |                   |
|--------------------------|--|---|-------------------|
| Calculation method       | Minimum curvature                                      | Rig on Slot #02 Hebron #05-18H 310'FNL & 2342'FEL (RT) to Facility Vertical Datum | 8173.00ft         |
| Horizontal Reference Pt  | Slot   | Rig on Slot #02 Hebron #05-18H 310'FNL & 2342'FEL (RT) to Mean Sea Level          | 8173.00ft         |
| Vertical Reference Pt    | Rig on Slot #02 Hebron #05-18H 310'FNL & 2342'FEL (RT) | Facility Vertical Datum to Mud Line (Facility)                                    | 0.00ft            |
| MD Reference Pt          | Rig on Slot #02 Hebron #05-18H 310'FNL & 2342'FEL (RT) | Section Origin  | N 0.00, E 0.00 ft |
| Field Vertical Reference | Mean Sea Level   | Section Azimuth   | 205.25°           |

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Hebron #5-18H AWP

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| Area     | COLORADO        | Well     | Hebron #5-18H                              |
| Field    | JACKSON COUNTY  | Wellbore | Hebron #5-18H AWB                          |
| Facility | Sec.18-T7N-R80W |          |  |

## WELLPATH DATA (166 stations)

| MD<br>[ft] | Inclination<br>[°] | Azimuth<br>[°] | TVD<br>[ft] | Vert Sect<br>[ft] | North<br>[ft] | East<br>[ft] | DLS<br>[°/100ft] | Comments                   |
|------------|--------------------|----------------|-------------|-------------------|---------------|--------------|------------------|----------------------------|
| 6192.00    | 0.100              | 314.500        | 6191.24     | 35.14             | -24.89        | -29.60       | 0.00             | TIE INTO 3RD PARTY SURVEYS |
| 6218.00    | 0.200              | 328.400        | 6217.24     | 35.11             | -24.84        | -29.64       | 0.41             |                            |
| 6249.00    | 0.200              | 326.300        | 6248.24     | 35.05             | -24.74        | -29.70       | 0.02             |                            |
| 6281.00    | 0.100              | 126.400        | 6280.24     | 35.03             | -24.71        | -29.71       | 0.92             |                            |
| 6313.00    | 1.100              | 221.300        | 6312.24     | 35.33             | -24.96        | -29.89       | 3.48             |                            |
| 6345.00    | 4.800              | 219.400        | 6344.19     | 36.92             | -26.23        | -30.94       | 11.56            |                            |
| 6376.00    | 8.600              | 218.100        | 6374.97     | 40.44             | -29.05        | -33.19       | 12.27            |                            |
| 6408.00    | 12.800             | 215.300        | 6406.41     | 46.26             | -33.83        | -36.72       | 13.22            |                            |
| 6440.00    | 15.900             | 212.900        | 6437.41     | 54.10             | -40.41        | -41.15       | 9.86             |                            |
| 6472.00    | 18.400             | 210.200        | 6467.98     | 63.48             | -48.45        | -46.07       | 8.20             |                            |
| 6503.00    | 21.300             | 205.500        | 6497.14     | 73.99             | -57.77        | -50.96       | 10.67            |                            |
| 6535.00    | 24.600             | 203.200        | 6526.60     | 86.46             | -69.14        | -56.09       | 10.68            |                            |
| 6567.00    | 28.200             | 202.000        | 6555.26     | 100.67            | -82.28        | -61.55       | 11.37            |                            |
| 6599.00    | 32.400             | 202.000        | 6582.88     | 116.78            | -97.24        | -67.59       | 13.12            |                            |
| 6630.00    | 36.100             | 203.700        | 6608.50     | 134.21            | -113.31       | -74.38       | 12.33            |                            |
| 6662.00    | 39.800             | 204.400        | 6633.73     | 153.88            | -131.28       | -82.40       | 11.64            |                            |
| 6694.00    | 44.000             | 203.900        | 6657.55     | 175.24            | -150.77       | -91.14       | 13.17            |                            |
| 6726.00    | 47.800             | 203.000        | 6679.81     | 198.21            | -171.85       | -100.27      | 12.05            |                            |
| 6757.00    | 51.300             | 202.900        | 6699.92     | 221.77            | -193.57       | -109.47      | 11.29            |                            |
| 6789.00    | 54.800             | 203.700        | 6719.15     | 247.33            | -217.05       | -119.59      | 11.12            |                            |
| 6820.00    | 58.600             | 204.400        | 6736.17     | 273.23            | -240.71       | -130.15      | 12.40            |                            |
| 6852.00    | 62.400             | 204.600        | 6751.93     | 301.07            | -266.05       | -141.70      | 11.89            |                            |
| 6883.00    | 65.800             | 203.600        | 6765.46     | 328.95            | -291.50       | -153.08      | 11.34            |                            |
| 6915.00    | 69.200             | 202.900        | 6777.71     | 358.49            | -318.66       | -164.75      | 10.82            |                            |
| 6947.00    | 73.100             | 201.300        | 6788.05     | 388.72            | -346.71       | -176.13      | 13.07            |                            |
| 6978.00    | 77.000             | 200.900        | 6796.04     | 418.59            | -374.65       | -186.91      | 12.64            |                            |
| 7010.00    | 81.000             | 200.900        | 6802.15     | 449.90            | -403.99       | -198.11      | 12.50            |                            |
| 7042.00    | 83.500             | 199.700        | 6806.46     | 481.49            | -433.73       | -209.11      | 8.65             |                            |
| 7059.00    | 84.500             | 201.000        | 6808.24     | 498.33            | -449.58       | -214.99      | 9.61             |                            |
| 7087.00    | 84.900             | 201.100        | 6810.82     | 526.14            | -475.60       | -225.01      | 1.47             |                            |
| 7131.00    | 87.200             | 201.500        | 6813.86     | 569.93            | -516.49       | -240.95      | 5.31             |                            |
| 7163.00    | 87.400             | 201.900        | 6815.36     | 601.83            | -546.19       | -252.77      | 1.40             |                            |
| 7182.00    | 87.600             | 202.300        | 6816.19     | 620.78            | -563.78       | -259.91      | 2.35             |                            |
| 7214.00    | 88.300             | 202.400        | 6817.34     | 652.72            | -593.36       | -272.07      | 2.21             |                            |
| 7245.00    | 88.300             | 202.700        | 6818.26     | 683.67            | -621.97       | -283.95      | 0.97             |                            |
| 7277.00    | 87.400             | 203.000        | 6819.46     | 715.62            | -651.44       | -296.37      | 2.96             |                            |
| 7308.00    | 87.100             | 203.100        | 6820.94     | 746.56            | -679.93       | -308.50      | 1.02             |                            |
| 7340.00    | 87.100             | 203.100        | 6822.56     | 778.50            | -709.33       | -321.03      | 0.00             |                            |
| 7372.00    | 86.900             | 203.900        | 6824.24     | 810.44            | -738.63       | -333.78      | 2.57             |                            |
| 7404.00    | 86.900             | 203.600        | 6825.97     | 842.38            | -767.88       | -346.65      | 0.94             |                            |
| 7435.00    | 87.000             | 203.800        | 6827.62     | 873.33            | -796.23       | -359.09      | 0.72             |                            |
| 7467.00    | 86.900             | 204.300        | 6829.32     | 905.28            | -825.41       | -372.11      | 1.59             |                            |
| 7498.00    | 87.300             | 204.800        | 6830.89     | 936.23            | -853.57       | -384.97      | 2.06             |                            |
| 7530.00    | 87.500             | 204.400        | 6832.34     | 968.20            | -882.63       | -398.28      | 1.40             |                            |
| 7562.00    | 87.300             | 204.300        | 6833.79     | 1000.16           | -911.76       | -411.46      | 0.70             |                            |

# Actual Wellpath Report

Hebron #5-18H AWP

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## REFERENCE WELLPATH IDENTIFICATION

|          |                 |          |  |
|----------|-----------------|----------|--|
| Operator | EOG RESOURCES   | Slot     | Slot #02 Hebron #05-18H 310'FNL & 2342'FEL |
| Area     | COLORADO        | Well     | Hebron #5-18H                              |
| Field    | JACKSON COUNTY  | Wellbore | Hebron #5-18H AWB                          |
| Facility | Sec.18-T7N-R80W |          |  |

## WELLPATH DATA (166 stations)

| MD<br>[ft] | Inclination<br>[°] | Azimuth<br>[°] | TVD<br>[ft] | Vert Sect<br>[ft] | North<br>[ft] | East<br>[ft] | DLS<br>[°/100ft] | Comments |
|------------|--------------------|----------------|-------------|-------------------|---------------|--------------|------------------|----------|
| 7593.00    | 87.000             | 204.600        | 6835.33     | 1031.12           | -939.94       | -424.28      | 1.37             |          |
| 7625.00    | 87.400             | 205.000        | 6836.90     | 1063.08           | -968.96       | -437.68      | 1.77             |          |
| 7656.00    | 88.000             | 205.800        | 6838.14     | 1094.05           | -996.94       | -450.97      | 3.22             |          |
| 7688.00    | 88.800             | 206.200        | 6839.03     | 1126.04           | -1025.69      | -464.99      | 2.79             |          |
| 7720.00    | 89.000             | 205.900        | 6839.65     | 1158.03           | -1054.43      | -479.04      | 1.13             |          |
| 7751.00    | 88.700             | 205.900        | 6840.27     | 1189.02           | -1082.31      | -492.58      | 0.97             |          |
| 7783.00    | 88.800             | 206.100        | 6840.97     | 1221.01           | -1111.07      | -506.60      | 0.70             |          |
| 7815.00    | 88.300             | 205.700        | 6841.78     | 1253.00           | -1139.84      | -520.58      | 2.00             |          |
| 7847.00    | 87.800             | 206.000        | 6842.87     | 1284.98           | -1168.62      | -534.52      | 1.82             |          |
| 7879.00    | 88.300             | 206.000        | 6843.96     | 1316.96           | -1197.37      | -548.54      | 1.56             |          |
| 7911.00    | 87.800             | 205.700        | 6845.04     | 1348.94           | -1226.15      | -562.49      | 1.82             |          |
| 7943.00    | 88.700             | 205.900        | 6846.02     | 1380.92           | -1254.95      | -576.41      | 2.88             |          |
| 7975.00    | 88.300             | 205.400        | 6846.86     | 1412.91           | -1283.78      | -590.25      | 2.00             |          |
| 8006.00    | 89.100             | 205.700        | 6847.56     | 1443.90           | -1311.74      | -603.62      | 2.76             |          |
| 8038.00    | 89.100             | 205.300        | 6848.07     | 1475.90           | -1340.62      | -617.40      | 1.25             |          |
| 8069.00    | 90.500             | 205.500        | 6848.17     | 1506.89           | -1368.63      | -630.69      | 4.56             |          |
| 8101.00    | 91.300             | 205.800        | 6847.67     | 1538.89           | -1397.47      | -644.54      | 2.67             |          |
| 8133.00    | 90.500             | 205.700        | 6847.17     | 1570.88           | -1426.29      | -658.44      | 2.52             |          |
| 8164.00    | 89.200             | 205.200        | 6847.25     | 1601.88           | -1454.28      | -671.76      | 4.49             |          |
| 8196.00    | 89.600             | 205.200        | 6847.58     | 1633.88           | -1483.23      | -685.39      | 1.25             |          |
| 8228.00    | 90.700             | 205.400        | 6847.50     | 1665.88           | -1512.16      | -699.06      | 3.49             |          |
| 8259.00    | 89.700             | 205.600        | 6847.39     | 1696.88           | -1540.14      | -712.41      | 3.29             |          |
| 8290.00    | 88.600             | 206.100        | 6847.85     | 1727.87           | -1568.03      | -725.92      | 3.90             |          |
| 8322.00    | 88.100             | 206.000        | 6848.77     | 1759.86           | -1596.77      | -739.97      | 1.59             |          |
| 8353.00    | 87.400             | 206.500        | 6849.99     | 1790.83           | -1624.55      | -753.67      | 2.77             |          |
| 8384.00    | 87.100             | 206.300        | 6851.48     | 1821.79           | -1652.29      | -767.44      | 1.16             |          |
| 8416.00    | 86.400             | 206.400        | 6853.29     | 1853.73           | -1680.92      | -781.62      | 2.21             |          |
| 8447.00    | 86.500             | 206.500        | 6855.21     | 1884.66           | -1708.62      | -795.40      | 0.46             |          |
| 8478.00    | 86.900             | 206.300        | 6857.00     | 1915.60           | -1736.34      | -809.16      | 1.44             |          |
| 8509.00    | 87.000             | 206.000        | 6858.65     | 1946.56           | -1764.13      | -822.80      | 1.02             |          |
| 8540.00    | 87.500             | 206.200        | 6860.13     | 1977.52           | -1791.93      | -836.43      | 1.74             |          |
| 8572.00    | 88.500             | 206.900        | 6861.25     | 2009.49           | -1820.54      | -850.72      | 3.81             |          |
| 8603.00    | 89.700             | 206.900        | 6861.74     | 2040.47           | -1848.18      | -864.74      | 3.87             |          |
| 8635.00    | 89.800             | 206.800        | 6861.88     | 2072.46           | -1876.73      | -879.20      | 0.44             |          |
| 8667.00    | 89.500             | 206.800        | 6862.07     | 2104.45           | -1905.30      | -893.62      | 0.94             |          |
| 8699.00    | 90.300             | 206.700        | 6862.13     | 2136.44           | -1933.87      | -908.03      | 2.52             |          |
| 8731.00    | 90.200             | 206.500        | 6861.99     | 2168.43           | -1962.48      | -922.36      | 0.70             |          |
| 8763.00    | 90.000             | 206.600        | 6861.93     | 2200.42           | -1991.11      | -936.66      | 0.70             |          |
| 8794.00    | 90.400             | 205.900        | 6861.82     | 2231.41           | -2018.91      | -950.37      | 2.60             |          |
| 8826.00    | 90.200             | 206.400        | 6861.66     | 2263.41           | -2047.64      | -964.47      | 1.68             |          |
| 8857.00    | 90.400             | 205.300        | 6861.49     | 2294.41           | -2075.53      | -977.99      | 3.61             |          |
| 8889.00    | 89.500             | 205.100        | 6861.52     | 2326.41           | -2104.49      | -991.61      | 2.88             |          |
| 8921.00    | 89.000             | 204.700        | 6861.94     | 2358.40           | -2133.51      | -1005.09     | 2.00             |          |
| 8954.00    | 89.400             | 204.500        | 6862.40     | 2391.40           | -2163.51      | -1018.82     | 1.36             |          |
| 8986.00    | 89.700             | 204.600        | 6862.65     | 2423.39           | -2192.62      | -1032.12     | 0.99             |          |



# Actual Wellpath Report

Hebron #5-18H AWP

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## REFERENCE WELLPATH IDENTIFICATION

|          |                 |          |  |
|----------|-----------------|----------|--|
| Operator | EOG RESOURCES   | Slot     | Slot #02 Hebron #05-18H 310'FNL & 2342'FEL |
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## WELLPATH DATA (166 stations)

| MD<br>[ft] | Inclination<br>[°] | Azimuth<br>[°] | TVD<br>[ft] | Vert Sect<br>[ft] | North<br>[ft] | East<br>[ft] | DLS<br>[°/100ft] | Comments |
|------------|--------------------|----------------|-------------|-------------------|---------------|--------------|------------------|----------|
| 9018.00    | 89.200             | 204.200        | 6862.96     | 2455.39           | -2221.76      | -1045.34     | 2.00             |          |
| 9050.00    | 88.200             | 204.500        | 6863.69     | 2487.38           | -2250.90      | -1058.53     | 3.26             |          |
| 9081.00    | 88.000             | 205.000        | 6864.71     | 2518.36           | -2279.04      | -1071.50     | 1.74             |          |
| 9113.00    | 87.600             | 204.300        | 6865.94     | 2550.33           | -2308.10      | -1084.83     | 2.52             |          |
| 9144.00    | 87.400             | 204.700        | 6867.30     | 2581.30           | -2336.28      | -1097.68     | 1.44             |          |
| 9176.00    | 87.800             | 205.000        | 6868.64     | 2613.27           | -2365.30      | -1111.11     | 1.56             |          |
| 9208.00    | 87.900             | 205.400        | 6869.84     | 2645.25           | -2394.23      | -1124.73     | 1.29             |          |
| 9240.00    | 88.000             | 205.100        | 6870.98     | 2677.23           | -2423.15      | -1138.37     | 0.99             |          |
| 9272.00    | 87.900             | 205.100        | 6872.13     | 2709.21           | -2452.11      | -1151.94     | 0.31             |          |
| 9303.00    | 87.800             | 204.500        | 6873.29     | 2740.18           | -2480.23      | -1164.93     | 1.96             |          |
| 9335.00    | 87.300             | 204.700        | 6874.66     | 2772.15           | -2509.30      | -1178.24     | 1.68             |          |
| 9366.00    | 87.700             | 204.700        | 6876.01     | 2803.12           | -2537.44      | -1191.18     | 1.29             |          |
| 9398.00    | 87.200             | 204.700        | 6877.43     | 2835.09           | -2566.48      | -1204.54     | 1.56             |          |
| 9430.00    | 86.900             | 204.300        | 6879.08     | 2867.04           | -2595.56      | -1217.79     | 1.56             |          |
| 9462.00    | 86.500             | 204.100        | 6880.92     | 2898.98           | -2624.70      | -1230.89     | 1.40             |          |
| 9493.00    | 86.200             | 204.400        | 6882.89     | 2929.92           | -2652.91      | -1243.59     | 1.37             |          |
| 9524.00    | 87.300             | 204.600        | 6884.65     | 2960.86           | -2681.07      | -1256.43     | 3.61             |          |
| 9556.00    | 89.200             | 205.000        | 6885.63     | 2992.85           | -2710.11      | -1269.84     | 6.07             |          |
| 9587.00    | 88.800             | 205.200        | 6886.17     | 3023.84           | -2738.18      | -1282.99     | 1.44             |          |
| 9619.00    | 88.300             | 205.200        | 6886.98     | 3055.83           | -2767.12      | -1296.61     | 1.56             |          |
| 9650.00    | 89.000             | 205.100        | 6887.71     | 3086.82           | -2795.17      | -1309.78     | 2.28             |          |
| 9683.00    | 89.900             | 204.700        | 6888.03     | 3119.82           | -2825.10      | -1323.68     | 2.98             |          |
| 9715.00    | 90.300             | 205.100        | 6887.97     | 3151.82           | -2854.13      | -1337.15     | 1.77             |          |
| 9746.00    | 90.000             | 205.200        | 6887.89     | 3182.82           | -2882.19      | -1350.32     | 1.02             |          |
| 9777.00    | 90.000             | 204.800        | 6887.89     | 3213.82           | -2910.29      | -1363.42     | 1.29             |          |
| 9809.00    | 89.700             | 204.900        | 6887.97     | 3245.82           | -2939.32      | -1376.87     | 0.99             |          |
| 9840.00    | 89.300             | 205.000        | 6888.24     | 3276.82           | -2967.43      | -1389.95     | 1.33             |          |
| 9873.00    | 89.600             | 205.400        | 6888.56     | 3309.81           | -2997.29      | -1404.00     | 1.52             |          |
| 9905.00    | 89.700             | 205.300        | 6888.76     | 3341.81           | -3026.21      | -1417.70     | 0.44             |          |
| 9937.00    | 90.700             | 206.100        | 6888.64     | 3373.81           | -3055.04      | -1431.58     | 4.00             |          |
| 9969.00    | 91.100             | 206.300        | 6888.14     | 3405.80           | -3083.75      | -1445.70     | 1.40             |          |
| 10001.00   | 91.400             | 206.600        | 6887.44     | 3437.79           | -3112.39      | -1459.95     | 1.33             |          |
| 10033.00   | 92.400             | 206.600        | 6886.38     | 3469.76           | -3140.99      | -1474.27     | 3.12             |          |
| 10066.00   | 92.800             | 206.600        | 6884.89     | 3502.72           | -3170.46      | -1489.03     | 1.21             |          |
| 10097.00   | 90.600             | 205.500        | 6883.97     | 3533.70           | -3198.30      | -1502.64     | 7.93             |          |
| 10129.00   | 89.500             | 205.500        | 6883.94     | 3565.70           | -3227.18      | -1516.42     | 3.44             |          |
| 10161.00   | 90.900             | 206.000        | 6883.83     | 3597.70           | -3256.00      | -1530.32     | 4.65             |          |
| 10192.00   | 92.800             | 205.600        | 6882.83     | 3628.68           | -3283.90      | -1543.80     | 6.26             |          |
| 10223.00   | 93.400             | 205.700        | 6881.15     | 3659.63           | -3311.80      | -1557.20     | 1.96             |          |
| 10255.00   | 91.800             | 205.000        | 6879.70     | 3691.60           | -3340.69      | -1570.89     | 5.46             |          |
| 10286.00   | 89.700             | 204.400        | 6879.29     | 3722.59           | -3368.85      | -1583.84     | 7.05             |          |
| 10318.00   | 89.500             | 204.400        | 6879.52     | 3754.59           | -3397.99      | -1597.06     | 0.62             |          |
| 10349.00   | 90.800             | 205.300        | 6879.43     | 3785.58           | -3426.12      | -1610.09     | 5.10             |          |
| 10381.00   | 91.800             | 205.000        | 6878.71     | 3817.58           | -3455.08      | -1623.68     | 3.26             |          |
| 10413.00   | 92.300             | 205.000        | 6877.56     | 3849.55           | -3484.06      | -1637.20     | 1.56             |          |



# Actual Wellpath Report

Hebron #5-18H AWP

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## REFERENCE WELLPATH IDENTIFICATION

|          |                 |          |  |
|----------|-----------------|----------|--|
| Operator | EOG RESOURCES   | Slot     | Slot #02 Hebron #05-18H 310'FNL & 2342'FEL |
| Area     | COLORADO        | Well     | Hebron #5-18H                              |
| Field    | JACKSON COUNTY  | Wellbore | Hebron #5-18H AWB                          |
| Facility | Sec.18-T7N-R80W |          |  |

## WELLPATH DATA (166 stations)

| MD<br>[ft] | Inclination<br>[°] | Azimuth<br>[°] | TVD<br>[ft] | Vert Sect<br>[ft] | North<br>[ft] | East<br>[ft] | DLS<br>[°/100ft] | Comments            |
|------------|--------------------|----------------|-------------|-------------------|---------------|--------------|------------------|---------------------|
| 10445.00   | 91.700             | 205.500        | 6876.45     | 3881.53           | -3512.99      | -1650.84     | 2.44             |                     |
| 10477.00   | 91.200             | 205.400        | 6875.64     | 3913.52           | -3541.87      | -1664.58     | 1.59             |                     |
| 10508.00   | 90.500             | 205.400        | 6875.18     | 3944.52           | -3569.87      | -1677.88     | 2.26             |                     |
| 10540.00   | 90.700             | 205.300        | 6874.84     | 3976.52           | -3598.79      | -1691.58     | 0.70             |                     |
| 10571.00   | 89.800             | 205.100        | 6874.71     | 4007.52           | -3626.84      | -1704.78     | 2.97             |                     |
| 10604.00   | 90.300             | 205.500        | 6874.68     | 4040.52           | -3656.67      | -1718.88     | 1.94             |                     |
| 10635.00   | 91.200             | 205.400        | 6874.27     | 4071.51           | -3684.66      | -1732.20     | 2.92             |                     |
| 10667.00   | 90.500             | 205.100        | 6873.80     | 4103.51           | -3713.60      | -1745.85     | 2.38             |                     |
| 10699.00   | 90.400             | 204.800        | 6873.55     | 4135.51           | -3742.61      | -1759.35     | 0.99             |                     |
| 10730.00   | 91.200             | 204.900        | 6873.11     | 4166.51           | -3770.74      | -1772.37     | 2.60             |                     |
| 10762.00   | 92.000             | 205.400        | 6872.22     | 4198.49           | -3799.70      | -1785.97     | 2.95             |                     |
| 10794.00   | 91.700             | 205.300        | 6871.19     | 4230.48           | -3828.60      | -1799.66     | 0.99             |                     |
| 10825.00   | 91.600             | 205.100        | 6870.29     | 4261.46           | -3856.64      | -1812.86     | 0.72             |                     |
| 10857.00   | 91.500             | 204.700        | 6869.43     | 4293.45           | -3885.65      | -1826.32     | 1.29             |                     |
| 10889.00   | 92.100             | 205.200        | 6868.42     | 4325.43           | -3914.65      | -1839.82     | 2.44             |                     |
| 10921.00   | 93.000             | 204.800        | 6867.00     | 4357.40           | -3943.62      | -1853.33     | 3.08             |                     |
| 10952.00   | 92.000             | 204.700        | 6865.65     | 4388.37           | -3971.75      | -1866.29     | 3.24             |                     |
| 10984.00   | 90.200             | 204.300        | 6865.03     | 4420.36           | -4000.86      | -1879.56     | 5.76             |                     |
| 11016.00   | 91.000             | 204.600        | 6864.70     | 4452.36           | -4029.99      | -1892.80     | 2.67             |                     |
| 11047.00   | 92.700             | 205.500        | 6863.70     | 4483.34           | -4058.06      | -1905.92     | 6.20             |                     |
| 11078.00   | 91.000             | 205.100        | 6862.70     | 4514.32           | -4086.07      | -1919.16     | 5.63             |                     |
| 11110.00   | 91.100             | 205.000        | 6862.11     | 4546.31           | -4115.05      | -1932.71     | 0.44             |                     |
| 11142.00   | 91.800             | 204.700        | 6861.30     | 4578.30           | -4144.08      | -1946.15     | 2.38             |                     |
| 11174.00   | 91.200             | 204.300        | 6860.46     | 4610.29           | -4173.19      | -1959.42     | 2.25             |                     |
| 11206.00   | 91.300             | 203.400        | 6859.77     | 4642.27           | -4202.45      | -1972.35     | 2.83             |                     |
| 11237.00   | 91.200             | 203.300        | 6859.09     | 4673.25           | -4230.90      | -1984.64     | 0.46             |                     |
| 11269.00   | 91.100             | 202.700        | 6858.45     | 4705.22           | -4260.35      | -1997.14     | 1.90             |                     |
| 11301.00   | 91.300             | 202.100        | 6857.78     | 4737.17           | -4289.93      | -2009.33     | 1.98             |                     |
| 11332.00   | 91.100             | 201.100        | 6857.13     | 4768.10           | -4318.75      | -2020.74     | 3.29             |                     |
| 11360.00   | 90.800             | 200.600        | 6856.66     | 4796.01           | -4344.91      | -2030.70     | 2.08             | LAST BHI MWD SURVEY |
| 11408.00   | 90.800             | 200.600        | 6855.99     | 4843.85           | -4389.84      | -2047.59     | 0.00             | PROJECTION TO BIT   |



# Actual Wellpath Report

Hebron #5-18H AWP

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INTEQ

## REFERENCE WELLPATH IDENTIFICATION

|          |                 |          |  |
|----------|-----------------|----------|--|
| Operator | EOG RESOURCES   | Slot     | Slot #02 Hebron #05-18H 310'FNL & 2342'FEL |
| Area     | COLORADO        | Well     | Hebron #5-18H                              |
| Field    | JACKSON COUNTY  | Wellbore | Hebron #5-18H AWB                          |
| Facility | Sec.18-T7N-R80W |          |  |

## HOLE & CASING SECTIONS Ref Wellbore: Hebron #5-18H AWB Ref Wellpath: Hebron #5-18H AWP

| String/Diameter         | Start MD<br>[ft] | End MD<br>[ft] | Interval<br>[ft] | Start TVD<br>[ft] | End TVD<br>[ft] | Start N/S<br>[ft] | Start E/W<br>[ft] | End N/S<br>[ft] | End E/W<br>[ft] |
|-------------------------|------------------|----------------|------------------|-------------------|-----------------|-------------------|-------------------|-----------------|-----------------|
| 12.25in Open Hole       | 20.00            | 1028.00        | 1008.00          | 20.00             | 1028.00         | -24.89            | -29.60            | -24.89          | -29.60          |
| 9.625in Casing Surface  | 20.00            | 1028.00        | 1008.00          | 20.00             | 1028.00         | -24.89            | -29.60            | -24.89          | -29.60          |
| 8.75in Open Hole        | 1028.00          | 7135.00        | 6107.00          | 1028.00           | 6814.05         | -24.89            | -29.60            | -520.21         | -242.42         |
| 7in Casing Intermediate | 20.00            | 7130.00        | 7110.00          | 20.00             | 6813.81         | -24.89            | -29.60            | -515.56         | -240.58         |
| 6in Open Hole           | 7130.00          | 11408.00       | 4278.00          | 6813.81           | 6855.99         | -515.56           | -240.58           | -4389.84        | -2047.59        |

## WELLPATH COMPOSITION Ref Wellbore: Hebron #5-18H AWB Ref Wellpath: Hebron #5-18H AWP

| Start MD<br>[ft] | End MD<br>[ft] | Positional Uncertainty Model | Log Name/Comment             | Wellbore          |
|------------------|----------------|------------------------------|------------------------------|-------------------|
| 6192.00          | 11360.00       | OnTrak (Standard)            | BHI MWD SURVEYS <6218-11360> | Hebron #5-18H AWB |
| 11360.00         | 11408.00       | Blind Drilling (std)         | Projection to bit            | Hebron #5-18H AWB |



# Actual Wellpath Report

Hebron #5-18H AWP

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INTEQ

## REFERENCE WELLPATH IDENTIFICATION

|          |                 |          |  |
|----------|-----------------|----------|--|
| Operator | EOG RESOURCES   | Slot     | Slot #02 Hebron #05-18H 310'FNL & 2342'FEL |
| Area     | COLORADO        | Well     | Hebron #5-18H                              |
| Field    | JACKSON COUNTY  | Wellbore | Hebron #5-18H AWB                          |
| Facility | Sec.18-T7N-R80W |          |  |

## WELLPATH COMMENTS

| MD<br>[ft] | Inclination<br>[°] | Azimuth<br>[°] | TVD<br>[ft] | Comment                    |
|------------|--------------------|----------------|-------------|----------------------------|
| 6192.00    | 0.100              | 314.500        | 6191.24     | TIE INTO 3RD PARTY SURVEYS |
| 11360.00   | 90.800             | 200.600        | 6856.66     | LAST BHI MWD SURVEY        |
| 11408.00   | 90.800             | 200.600        | 6855.99     | PROJECTION TO BIT          |