

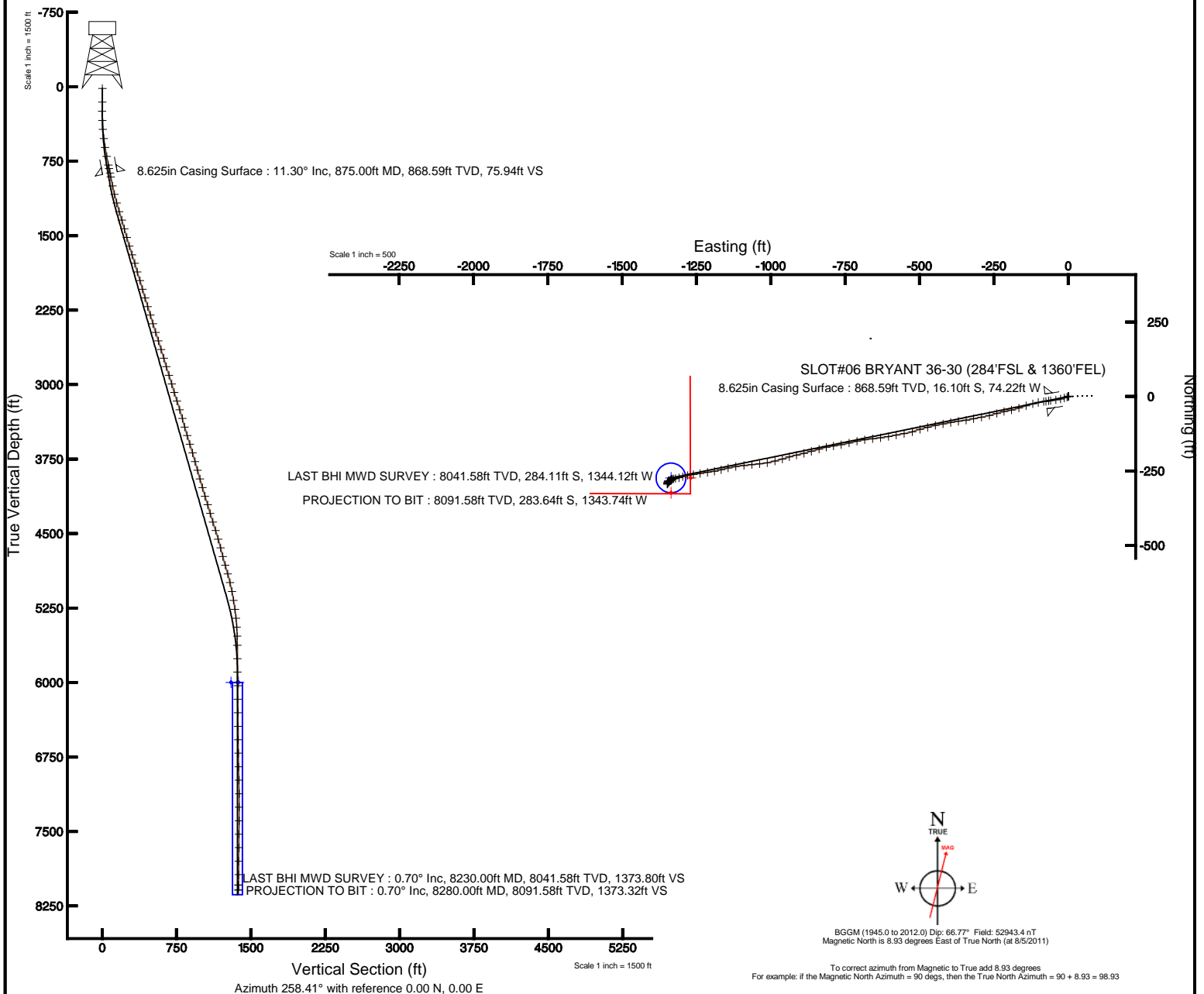


# KERR MCGEE OIL & GAS ONSHORE LP

Location: COLORADO Slot: SLOT#06 BRYANT 36-30 (284'FSL & 1360'FEL)  
Field: WELD COUNTY (KERR MCGEE) Well: BRYANT 36-30  
Facility: SEC.30-T2N-R68W Wellbore: BRYANT 36-30 PWB



|   |   |
|---|---|
| Plot reference wellbore is BRYANT 36-30 (REV-A-3) PWB                                   | Grid System NAD83 / Lambert Colorado SP, Northern Zone (501), US feet |
| True vertical depths are referenced to XTREME 12 (RKB)                                  | North Reference: True north   |
| Measured depths are referenced to XTREME 12 (RKB)                                       | Scale: True distance  |
| XTREME 12 (RKB) to Mean Sea Level: 4943 feet  | Depths are in feet  |
| Mean Sea Level to Mud line (At Slot: SLOT#06 BRYANT 36-30 (284'FSL & 1360'FEL)): 0 feet | Created by: cooldam on 10/14/2011                                     |
| Coordinates are in feet referenced to Slot  |   |





# Actual Wellpath Report

BRYANT 36-30 AWP

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## REFERENCE WELLPATH IDENTIFICATION

|          |                                 |          |   |
|----------|---------------------------------|----------|---|
| Operator | KERR MCGEE OIL & GAS ONSHORE LP | Slot     | SLOT#06 BRYANT 36-30 (284'FSL & 1360'FEL) |
| Area     | COLORADO                        | Well     | BRYANT 36-30                              |
| Field    | WELD COUNTY (KERR MCGEE)        | Wellbore | BRYANT 36-30 AWB                          |
| Facility | SEC.30-T2N-R68W                 |          |   |

## REPORT SETUP INFORMATION

|                     |   |                      |                                |
|---------------------|---|----------------------|--------------------------------|
| Projection System   | NAD83 / Lambert Colorado SP, Northern Zone (501), US feet | Software System      | WellArchitect® 3.0.1           |
| North Reference     | True  | User                 | Cookdanm                       |
| Scale               | 0.99996   | Report Generated     | 10/14/2011 at 5:40:58 PM       |
| Convergence at slot | 0.30° East  | Database/Source file | WA_Denver/BRYANT_36-30_AWB.xml |

## WELLPATH LOCATION

|                       | Local coordinates |          | Grid coordinates |                 | Geographic coordinates |                 |
|-----------------------|-------------------|----------|------------------|-----------------|------------------------|-----------------|
|                       | North[ft]         | East[ft] | Easting[US ft]   | Northing[US ft] | Latitude               | Longitude       |
| Slot Location         | -2.23             | -79.73   | 3128195.60       | 1280718.55      | 40°06'10.998"N         | 105°02'30.174"W |
| Facility Reference Pt |                   |          | 3128275.31       | 1280721.19      | 40°06'11.020"N         | 105°02'29.148"W |
| Field Reference Pt    |                   |          | 3197771.84       | 1268891.29      | 40°04'09.600"N         | 104°47'36.000"W |

## WELLPATH DATUM

|                          |                   |   |                   |
|--------------------------|-------------------|---|-------------------|
| Calculation method       | Minimum curvature | XTREME 12 (RKB) to Facility Vertical Datum                                      | 4943.00ft         |
| Horizontal Reference Pt  | Slot              | XTREME 12 (RKB) to Mean Sea Level   | 4943.00ft         |
| Vertical Reference Pt    | XTREME 12 (RKB)   | XTREME 12 (RKB) to Mud Line at Slot (SLOT#06 BRYANT 36-30 (284'FSL & 1360'FEL)) | 4943.00ft         |
| MD Reference Pt          | XTREME 12 (RKB)   | Section Origin  | N 0.00, E 0.00 ft |
| Field Vertical Reference | Mean Sea Level    | Section Azimuth   | 258.41°           |



# Actual Wellpath Report

BRYANT 36-30 AWP

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## REFERENCE WELLPATH IDENTIFICATION

|          |                                 |          |   |
|----------|---------------------------------|----------|---|
| Operator | KERR MCGEE OIL & GAS ONSHORE LP | Slot     | SLOT#06 BRYANT 36-30 (284'FSL & 1360'FEL) |
| Area     | COLORADO                        | Well     | BRYANT 36-30                              |
| Field    | WELD COUNTY (KERR MCGEE)        | Wellbore | BRYANT 36-30 AWB                          |
| Facility | SEC.30-T2N-R68W                 |          |   |

## WELLPATH DATA (85 stations) † = interpolated/extrapolated station

| MD<br>[ft] | Inclination<br>[°] | Azimuth<br>[°] | TVD<br>[ft] | Vert Sect<br>[ft] | North<br>[ft] | East<br>[ft] | DLS<br>[°/100ft] | Comments |
|------------|--------------------|----------------|-------------|-------------------|---------------|--------------|------------------|----------|
| 0.00†      | 0.000              | 65.500         | 0.00        | 0.00              | 0.00          | 0.00         | 0.00             |          |
| 15.00      | 0.000              | 65.500         | 15.00       | 0.00              | 0.00          | 0.00         | 0.00             |          |
| 153.00     | 1.200              | 65.500         | 152.99      | -1.41             | 0.60          | 1.31         | 0.87             |          |
| 245.00     | 0.500              | 91.200         | 244.98      | -2.74             | 0.99          | 2.59         | 0.85             |          |
| 337.00     | 2.000              | 245.200        | 336.96      | -1.57             | 0.31          | 1.54         | 2.67             |          |
| 429.00     | 4.800              | 247.700        | 428.79      | 3.78              | -1.83         | -3.48        | 3.05             |          |
| 521.00     | 7.200              | 252.900        | 520.28      | 13.30             | -4.98         | -12.56       | 2.67             |          |
| 612.00     | 9.400              | 256.100        | 610.32      | 26.40             | -8.44         | -25.22       | 2.47             |          |
| 703.00     | 11.300             | 261.700        | 699.84      | 42.73             | -11.52        | -41.26       | 2.36             |          |
| 793.00     | 10.900             | 262.400        | 788.16      | 60.02             | -13.92        | -58.42       | 0.47             |          |
| 827.00     | 11.300             | 261.700        | 821.52      | 66.56             | -14.82        | -64.90       | 1.24             |          |
| 915.00     | 11.300             | 263.500        | 907.82      | 83.75             | -17.04        | -82.00       | 0.40             |          |
| 1006.00    | 11.700             | 257.900        | 996.99      | 101.86            | -19.99        | -99.88       | 1.30             |          |
| 1093.00    | 14.000             | 255.600        | 1081.81     | 121.19            | -24.45        | -118.70      | 2.71             |          |
| 1183.00    | 16.100             | 250.800        | 1168.72     | 144.44            | -31.26        | -141.03      | 2.71             |          |
| 1274.00    | 16.300             | 253.300        | 1256.11     | 169.67            | -39.08        | -165.18      | 0.80             |          |
| 1365.00    | 16.500             | 258.200        | 1343.41     | 195.31            | -45.40        | -190.06      | 1.54             |          |
| 1456.00    | 15.800             | 257.500        | 1430.82     | 220.62            | -50.72        | -214.81      | 0.80             |          |
| 1547.00    | 16.200             | 254.300        | 1518.29     | 245.67            | -56.84        | -239.13      | 1.06             |          |
| 1637.00    | 17.500             | 255.100        | 1604.43     | 271.70            | -63.71        | -264.29      | 1.47             |          |
| 1728.00    | 18.000             | 260.000        | 1691.10     | 299.42            | -69.67        | -291.36      | 1.73             |          |
| 1819.00    | 16.800             | 258.200        | 1777.94     | 326.62            | -74.81        | -318.08      | 1.45             |          |
| 1910.00    | 15.900             | 261.000        | 1865.26     | 352.23            | -79.45        | -343.27      | 1.31             |          |
| 2001.00    | 17.400             | 261.700        | 1952.44     | 378.27            | -83.36        | -369.04      | 1.66             |          |
| 2091.00    | 16.400             | 260.000        | 2038.55     | 404.40            | -87.51        | -394.87      | 1.24             |          |
| 2182.00    | 17.000             | 259.600        | 2125.71     | 430.54            | -92.14        | -420.61      | 0.67             |          |
| 2273.00    | 16.900             | 258.600        | 2212.76     | 457.07            | -97.16        | -446.66      | 0.34             |          |
| 2364.00    | 16.900             | 254.000        | 2299.83     | 483.49            | -103.42       | -472.34      | 1.47             |          |
| 2454.00    | 17.200             | 254.000        | 2385.88     | 509.80            | -110.69       | -497.71      | 0.33             |          |
| 2545.00    | 18.100             | 253.300        | 2472.59     | 537.29            | -118.46       | -524.18      | 1.02             |          |
| 2636.00    | 18.000             | 260.700        | 2559.13     | 565.43            | -124.80       | -551.60      | 2.52             |          |
| 2727.00    | 16.800             | 258.200        | 2645.96     | 592.63            | -129.76       | -578.35      | 1.55             |          |
| 2818.00    | 17.000             | 260.700        | 2733.03     | 619.07            | -134.60       | -604.35      | 0.83             |          |
| 2908.00    | 17.000             | 261.700        | 2819.10     | 645.35            | -138.62       | -630.35      | 0.32             |          |
| 2999.00    | 17.300             | 264.200        | 2906.06     | 672.09            | -141.91       | -656.98      | 0.87             |          |
| 3090.00    | 17.200             | 261.400        | 2992.96     | 698.99            | -145.29       | -683.74      | 0.92             |          |
| 3180.00    | 17.100             | 256.400        | 3078.97     | 725.51            | -150.39       | -709.76      | 1.64             |          |
| 3271.00    | 17.800             | 257.500        | 3165.78     | 752.78            | -156.55       | -736.35      | 0.85             |          |
| 3362.00    | 17.500             | 259.300        | 3252.50     | 780.37            | -162.10       | -763.37      | 0.68             |          |
| 3453.00    | 15.800             | 261.400        | 3339.68     | 806.43            | -166.49       | -789.07      | 1.98             |          |
| 3544.00    | 15.200             | 258.200        | 3427.37     | 830.73            | -170.78       | -812.99      | 1.15             |          |
| 3634.00    | 17.300             | 254.000        | 3513.77     | 855.87            | -176.89       | -837.41      | 2.67             |          |
| 3725.00    | 17.200             | 254.300        | 3600.68     | 882.78            | -184.26       | -863.37      | 0.15             |          |
| 3816.00    | 16.300             | 256.100        | 3687.82     | 908.97            | -190.97       | -888.72      | 1.14             |          |
| 3907.00    | 16.500             | 257.100        | 3775.12     | 934.64            | -196.92       | -913.71      | 0.38             |          |



# Actual Wellpath Report

BRYANT 36-30 AWP

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| REFERENCE WELLPATH IDENTIFICATION |                                 |          |   |
|-----------------------------------|---------------------------------|----------|---|
| Operator                          | KERR MCGEE OIL & GAS ONSHORE LP | Slot     | SLOT#06 BRYANT 36-30 (284'FSL & 1360'FEL) |
| Area                              | COLORADO                        | Well     | BRYANT 36-30                              |
| Field                             | WELD COUNTY (KERR MCGEE)        | Wellbore | BRYANT 36-30 AWB                          |
| Facility                          | SEC.30-T2N-R68W                 |          |   |

## WELLPATH DATA (85 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            |
|------------|--------------------|----------------|-------------|-------------------|---------------|--------------|------------------|---------------------|
| 3998.00    | 15.400             | 252.900        | 3862.61     | 959.59            | -203.36       | -937.86      | 1.75             |                     |
| 4088.00    | 16.000             | 254.300        | 3949.26     | 983.86            | -210.23       | -961.22      | 0.79             |                     |
| 4179.00    | 17.100             | 256.100        | 4036.49     | 1009.74           | -216.84       | -986.28      | 1.33             |                     |
| 4270.00    | 16.400             | 257.900        | 4123.62     | 1035.95           | -222.74       | -1011.83     | 0.96             |                     |
| 4361.00    | 16.800             | 264.900        | 4210.84     | 1061.87           | -226.60       | -1037.50     | 2.24             |                     |
| 4451.00    | 16.900             | 264.200        | 4296.98     | 1087.81           | -229.08       | -1063.47     | 0.25             |                     |
| 4542.00    | 17.700             | 264.200        | 4383.86     | 1114.73           | -231.82       | -1090.39     | 0.88             |                     |
| 4633.00    | 17.900             | 260.000        | 4470.51     | 1142.47           | -235.64       | -1117.92     | 1.43             |                     |
| 4723.00    | 16.100             | 257.500        | 4556.57     | 1168.78           | -240.75       | -1143.73     | 2.16             |                     |
| 4814.00    | 14.700             | 256.400        | 4644.30     | 1192.93           | -246.19       | -1167.27     | 1.57             |                     |
| 4905.00    | 14.400             | 258.600        | 4732.38     | 1215.79           | -251.15       | -1189.59     | 0.69             |                     |
| 4996.00    | 16.200             | 262.100        | 4820.16     | 1239.77           | -255.13       | -1213.26     | 2.22             |                     |
| 5087.00    | 15.600             | 261.700        | 4907.68     | 1264.66           | -258.64       | -1237.94     | 0.67             |                     |
| 5177.00    | 13.500             | 260.300        | 4994.78     | 1287.24           | -262.16       | -1260.27     | 2.37             |                     |
| 5268.00    | 11.800             | 259.500        | 5083.57     | 1307.16           | -265.64       | -1279.89     | 1.88             |                     |
| 5359.00    | 9.100              | 252.600        | 5173.06     | 1323.63           | -269.49       | -1295.91     | 3.27             |                     |
| 5450.00    | 8.400              | 254.300        | 5263.00     | 1337.42           | -273.44       | -1309.17     | 0.82             |                     |
| 5541.00    | 5.900              | 262.100        | 5353.29     | 1348.72           | -275.88       | -1320.21     | 2.94             |                     |
| 5631.00    | 3.300              | 261.000        | 5442.99     | 1355.92           | -276.92       | -1327.35     | 2.89             |                     |
| 5722.00    | 1.800              | 264.900        | 5533.90     | 1359.96           | -277.46       | -1331.36     | 1.66             |                     |
| 5813.00    | 0.400              | 226.900        | 5624.88     | 1361.65           | -277.80       | -1333.02     | 1.65             |                     |
| 5949.00    | 0.500              | 220.600        | 5760.87     | 1362.52           | -278.58       | -1333.75     | 0.08             |                     |
| 6085.00    | 0.700              | 213.900        | 5896.87     | 1363.58           | -279.72       | -1334.60     | 0.16             |                     |
| 6221.00    | 0.600              | 223.000        | 6032.86     | 1364.76           | -280.93       | -1335.55     | 0.11             |                     |
| 6358.00    | 0.700              | 236.100        | 6169.85     | 1366.11           | -281.92       | -1336.73     | 0.13             |                     |
| 6494.00    | 0.600              | 237.800        | 6305.84     | 1367.55           | -282.76       | -1338.02     | 0.07             |                     |
| 6630.00    | 0.700              | 238.500        | 6441.83     | 1369.00           | -283.58       | -1339.33     | 0.07             |                     |
| 6766.00    | 0.800              | 214.900        | 6577.82     | 1370.47           | -284.79       | -1340.59     | 0.24             |                     |
| 6902.00    | 1.300              | 212.400        | 6713.80     | 1372.23           | -286.87       | -1341.96     | 0.37             |                     |
| 7038.00    | 1.600              | 216.300        | 6849.75     | 1374.71           | -289.70       | -1343.91     | 0.23             |                     |
| 7174.00    | 1.800              | 222.300        | 6985.69     | 1377.84           | -292.81       | -1346.47     | 0.20             |                     |
| 7310.00    | 0.200              | 163.600        | 7121.67     | 1379.55           | -294.62       | -1347.84     | 1.25             |                     |
| 7446.00    | 0.600              | 0.200          | 7257.67     | 1379.38           | -294.14       | -1347.77     | 0.58             |                     |
| 7582.00    | 0.600              | 336.200        | 7393.66     | 1379.39           | -292.77       | -1348.05     | 0.18             |                     |
| 7718.00    | 1.200              | 12.400         | 7529.64     | 1378.96           | -290.73       | -1348.03     | 0.59             |                     |
| 7854.00    | 1.100              | 33.900         | 7665.62     | 1377.45           | -288.26       | -1347.00     | 0.32             |                     |
| 7990.00    | 0.700              | 28.200         | 7801.60     | 1375.99           | -286.44       | -1345.88     | 0.30             |                     |
| 8126.00    | 0.700              | 41.200         | 7937.59     | 1374.79           | -285.08       | -1344.94     | 0.12             |                     |
| 8230.00    | 0.700              | 39.100         | 8041.58     | 1373.80           | -284.11       | -1344.12     | 0.02             | LAST BHI MWD SURVEY |
| 8280.00    | 0.700              | 39.100         | 8091.58     | 1373.32           | -283.64       | -1343.74     | 0.00             | PROJECTION TO BIT   |



# Actual Wellpath Report

BRYANT 36-30 AWP

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## REFERENCE WELLPATH IDENTIFICATION

|          |                                 |          |   |
|----------|---------------------------------|----------|---|
| Operator | KERR MCGEE OIL & GAS ONSHORE LP | Slot     | SLOT#06 BRYANT 36-30 (284'FSL & 1360'FEL) |
| Area     | COLORADO                        | Well     | BRYANT 36-30                              |
| Field    | WELD COUNTY (KERR MCGEE)        | Wellbore | BRYANT 36-30 AWB                          |
| Facility | SEC.30-T2N-R68W                 |          |   |

## HOLE & CASING SECTIONS - Ref Wellbore: BRYANT 36-30 AWB Ref Wellpath: BRYANT 36-30 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      | 15.00            | 882.00         | 867.00           | 15.00             | 875.46          | 0.00              | 0.00              | -16.27          | -75.58          |
| 8.625in Casing Surface | 15.00            | 875.00         | 860.00           | 15.00             | 868.59          | 0.00              | 0.00              | -16.10          | -74.22          |
| 7.875in Open Hole      | 875.00           | 8280.00        | 7405.00          | 868.59            | 8091.58         | -16.10            | -74.22            | -283.64         | -1343.74        |

## 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  |
|---|------------|-------------|---------------|--------------|----------------------|-----------------------|----------------|-----------------|--------|
| BRYANT 36-30 GEO TARGET 50'<br>RADIUS (50'FSL & 2500'FWL,<br>REV-1) |            | 6000.00     | -273.89       | -1335.78     | 3126861.31           | 1280437.77            | 40°06'08.291"N | 105°02'47.364"W | circle |
| BRYANT 36-30 HARDLINE 50'S<br>OF GEO TARGET                         |            | 6000.00     | -323.91       | -1335.78     | 3126861.57           | 1280387.75            | 40°06'07.797"N | 105°02'47.364"W | point  |
| BRYANT 36-30 HARDLINE 66'E<br>OF GEO TARGET                         |            | 6000.00     | -273.91       | -1269.78     | 3126927.31           | 1280438.09            | 40°06'08.291"N | 105°02'46.515"W | point  |

## WELLPATH COMPOSITION - Ref Wellbore: BRYANT 36-30 AWB Ref Wellpath: BRYANT 36-30 AWP

| Start MD<br>[ft] | End MD<br>[ft] | Positional Uncertainty Model | Log Name/Comment           | Wellbore         |
|------------------|----------------|------------------------------|----------------------------|------------------|
| 15.00            | 8230.00        | NaviTrak (Standard)          | BHI MWD SURVEYS <153-8230> | BRYANT 36-30 AWB |
| 8230.00          | 8280.00        | Blind Drilling (std)         | Projection to bit          | BRYANT 36-30 AWB |



# Actual Wellpath Report

BRYANT 36-30 AWP

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## REFERENCE WELLPATH IDENTIFICATION

|          |                                 |          |   |
|----------|---------------------------------|----------|---|
| Operator | KERR MCGEE OIL & GAS ONSHORE LP | Slot     | SLOT#06 BRYANT 36-30 (284'FSL & 1360'FEL) |
| Area     | COLORADO                        | Well     | BRYANT 36-30                              |
| Field    | WELD COUNTY (KERR MCGEE)        | Wellbore | BRYANT 36-30 AWB                          |
| Facility | SEC.30-T2N-R68W                 |          |   |

## WELLPATH COMMENTS

| MD<br>[ft] | Inclination<br>[°] | Azimuth<br>[°] | TVD<br>[ft] | Comment             |
|------------|--------------------|----------------|-------------|---------------------|
| 8230.00    | 0.700              | 39.100         | 8041.58     | LAST BHI MWD SURVEY |
| 8280.00    | 0.700              | 39.100         | 8091.58     | PROJECTION TO BIT   |