



# Actual Wellpath Report

No. 258H AWP - Final

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30-015-42218



| REFERENCE WELLPATH IDENTIFICATION |                                  |          |              |
|-----------------------------------|----------------------------------|----------|--------------|
| Operator                          | BOPCO, LP                        | Slot     | No. 258H SHL |
| Area                              | Eddy County, NM                  | Well     | No. 258H     |
| Field                             | Big Eddy                         | Wellbore | No. 258H AWP |
| Facility                          | Big Eddy Unit No.258H & No. 259H |          |              |

| REPORT SETUP INFORMATION |                                                        |                      |                                                                                                          |
|--------------------------|--------------------------------------------------------|----------------------|----------------------------------------------------------------------------------------------------------|
| Projection System        | NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet | Software System      | WellArchitect® 4.0.0                                                                                     |
| North Reference          | Grid                                                   | User                 | Burnranj                                                                                                 |
| Scale                    | 0.999935                                               | Report Generated     | 5/22/2014 at 10:07:56 AM                                                                                 |
| Convergence at slot      | 0.26° East                                             | Database/Source file | WA_MIDLAND/C:\Users\burnranj\AppData\Roaming\Well Explorer\temp\BOPCO, LP No. 258H SHL_Final Surveys.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     | 649416.23        | 591788.70       | 32°37'33.574"N         | 103°50'52.849"W |
| Facility Reference Pt |                   |          | 649416.23        | 591788.70       | 32°37'33.574"N         | 103°50'52.849"W |
| Field Reference Pt    |                   |          | 610823.03        | 524402.80       | 32°26'28.262"N         | 103°58'26.774"W |

| WELLPATH DATUM           |                          |                                                             |                   |
|--------------------------|--------------------------|-------------------------------------------------------------|-------------------|
| Calculation method       | Minimum curvature        | Rig on No. 258H SHL (KB) to Facility Vertical Datum         | 30.00ft           |
| Horizontal Reference Pt  | Slot                     | Rig on No. 258H SHL (KB) to Mean Sea Level                  | 3502.00ft         |
| Vertical Reference Pt    | Rig on No. 258H SHL (KB) | Rig on No. 258H SHL (KB) to Mud Line at Slot (No. 258H SHL) | 30.00ft           |
| MD Reference Pt          | Rig on No. 258H SHL (KB) | Section Origin                                              | N 0.00, E 0.00 ft |
| Field Vertical Reference | Mean Sea Level           | Section Azimuth                                             | 284.33°           |

NM OIL CONSERVATION  
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| REFERENCE WELLPATH IDENTIFICATION |                                  |          |              |
|-----------------------------------|----------------------------------|----------|--------------|
| Operator                          | BOPCO, LP                        | Slot     | No. 258H SHL |
| Area                              | Eddy County, NM                  | Well     | No. 258H     |
| Field                             | Big Eddy                         | Wellbore | No. 258H AWP |
| Facility                          | Big Eddy Unit No.258H & No. 259H |          |              |

| WELLPATH DATA (194 stations) *† = interpolated/extrapolated station |                 |             |          |                |            |           |                   |                    |               |          |
|---------------------------------------------------------------------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|---------------|----------|
| MD [ft]                                                             | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Grid East [US ft] | Grid North [US ft] | DLS [°/100ft] | Comments |
| 0.00†                                                               | 0.000           | 280.030     | 0.00     | 0.00           | 0.00       | 0.00      | 649416.23         | 591788.70          | 0.00          |          |
| 30.00                                                               | 0.000           | 280.030     | 30.00    | 0.00           | 0.00       | 0.00      | 649416.23         | 591788.70          | 0.00          |          |
| 62.00                                                               | 0.710           | 280.030     | 62.00    | 0.20           | 0.03       | -0.20     | 649416.03         | 591788.73          | 2.22          |          |
| 107.00                                                              | 0.880           | 304.450     | 106.99   | 0.80           | 0.28       | -0.75     | 649415.48         | 591788.98          | 0.83          |          |
| 197.00                                                              | 0.970           | 315.90      | 196.99   | 1.56           | 1.43       | -1.25     | 649414.98         | 591790.13          | 1.05          |          |
| 288.00                                                              | 0.570           | 296.060     | 287.98   | 2.13           | 2.39       | -1.58     | 649414.65         | 591791.09          | 1.03          |          |
| 378.00                                                              | 0.590           | 278.110     | 377.97   | 3.02           | 2.66       | -2.44     | 649413.79         | 591791.36          | 0.20          |          |
| 468.00                                                              | 0.230           | 80.370      | 467.97   | 3.32           | 2.75       | -2.72     | 649413.51         | 591791.45          | 0.90          |          |
| 559.00                                                              | 0.420           | 326.230     | 558.97   | 3.40           | 3.06       | -2.73     | 649413.50         | 591791.76          | 0.61          |          |
| 649.00                                                              | 0.200           | 302.250     | 648.97   | 3.60           | 3.47       | -2.83     | 649413.40         | 591792.17          | 0.42          |          |
| 739.00                                                              | 0.380           | 70.300      | 738.97   | 3.31           | 3.70       | -2.47     | 649413.76         | 591792.40          | 0.29          |          |
| 830.00                                                              | 0.460           | 79.250      | 829.97   | 2.73           | 3.87       | -1.83     | 649414.40         | 591792.57          | 0.11          |          |
| 920.00                                                              | 0.530           | 91.600      | 919.96   | 2.00           | 3.93       | -1.06     | 649415.17         | 591792.63          | 0.14          |          |
| 1010.00                                                             | 0.600           | 351.830     | 1009.96  | 1.77           | 4.39       | -0.71     | 649415.52         | 591793.09          | 0.96          |          |
| 1100.00                                                             | 2.590           | 327.020     | 1099.92  | 3.45           | 6.56       | -1.88     | 649414.35         | 591795.26          | 2.29          |          |
| 1191.00                                                             | 3.820           | 326.770     | 1190.78  | 7.20           | 10.82      | -4.66     | 649411.57         | 591799.52          | 1.35          |          |
| 1281.00                                                             | 4.570           | 333.070     | 1280.54  | 11.77          | 16.52      | -7.93     | 649408.30         | 591805.22          | 0.98          |          |
| 1371.00                                                             | 5.090           | 334.120     | 1370.22  | 16.71          | 23.31      | -11.30    | 649404.93         | 591812.01          | 0.59          |          |
| 1462.00                                                             | 5.280           | 334.000     | 1460.84  | 22.03          | 30.71      | -14.90    | 649401.34         | 591819.40          | 0.21          |          |
| 1552.00                                                             | 4.520           | 333.150     | 1550.52  | 27.05          | 37.59      | -18.31    | 649397.92         | 591826.29          | 0.85          |          |
| 1642.00                                                             | 4.200           | 332.160     | 1640.25  | 31.59          | 43.67      | -21.45    | 649394.78         | 591832.37          | 0.37          |          |
| 1733.00                                                             | 3.780           | 331.870     | 1731.03  | 35.85          | 49.26      | -24.42    | 649391.81         | 591837.96          | 0.46          |          |
| 1823.00                                                             | 2.900           | 326.830     | 1820.88  | 39.54          | 53.79      | -27.07    | 649389.16         | 591842.48          | 1.03          |          |
| 1913.00                                                             | 2.340           | 323.340     | 1910.79  | 42.64          | 57.16      | -29.41    | 649386.82         | 591845.86          | 0.65          |          |
| 2003.00                                                             | 2.100           | 323.620     | 2000.72  | 45.35          | 59.97      | -31.49    | 649384.75         | 591848.66          | 0.27          |          |
| 2094.00                                                             | 1.920           | 327.520     | 2091.66  | 47.75          | 62.59      | -33.29    | 649382.94         | 591851.29          | 0.25          |          |
| 2184.00                                                             | 1.620           | 335.420     | 2181.62  | 49.65          | 65.02      | -34.63    | 649381.60         | 591853.72          | 0.43          |          |
| 2274.00                                                             | 2.350           | 333.580     | 2271.56  | 51.65          | 67.83      | -35.98    | 649380.25         | 591856.53          | 0.81          |          |
| 2370.00                                                             | 2.270           | 341.460     | 2367.49  | 53.96          | 71.40      | -37.46    | 649378.77         | 591860.09          | 0.34          |          |
| 2420.00                                                             | 1.640           | 345.120     | 2417.46  | 54.85          | 73.03      | -37.96    | 649378.27         | 591861.72          | 1.28          |          |
| 2470.00                                                             | 1.110           | 347.540     | 2467.44  | 55.42          | 74.19      | -38.25    | 649377.98         | 591862.89          | 1.07          |          |
| 2520.00                                                             | 0.750           | 347.340     | 2517.44  | 55.79          | 74.98      | -38.43    | 649377.81         | 591863.68          | 0.72          |          |
| 2570.00                                                             | 0.770           | 2.430       | 2567.43  | 56.00          | 75.64      | -38.48    | 649377.75         | 591864.33          | 0.40          |          |
| 2620.00                                                             | 0.820           | 10.260      | 2617.43  | 56.10          | 76.33      | -38.41    | 649377.83         | 591865.02          | 0.24          |          |
| 2670.00                                                             | 1.050           | 10.350      | 2667.42  | 56.16          | 77.13      | -38.26    | 649377.97         | 591865.82          | 0.46          |          |
| 2720.00                                                             | 1.050           | 7.320       | 2717.41  | 56.24          | 78.04      | -38.12    | 649378.11         | 591866.73          | 0.11          |          |
| 2770.00                                                             | 1.240           | 358.770     | 2767.40  | 56.44          | 79.03      | -38.07    | 649378.16         | 591867.73          | 0.51          |          |
| 2820.00                                                             | 1.510           | 356.450     | 2817.39  | 56.79          | 80.23      | -38.12    | 649378.11         | 591868.92          | 0.55          |          |
| 2870.00                                                             | 1.480           | 9.540       | 2867.37  | 57.05          | 81.52      | -38.06    | 649378.17         | 591870.22          | 0.68          |          |
| 2920.00                                                             | 1.460           | 3.390       | 2917.35  | 57.22          | 82.80      | -37.91    | 649378.32         | 591871.49          | 0.32          |          |
| 2970.00                                                             | 1.790           | 357.930     | 2967.33  | 57.56          | 84.21      | -37.90    | 649378.33         | 591872.91          | 0.73          |          |
| 3020.00                                                             | 1.850           | 0.730       | 3017.31  | 57.97          | 85.80      | -37.92    | 649378.31         | 591874.49          | 0.21          |          |
| 3070.00                                                             | 1.570           | 12.240      | 3067.29  | 58.19          | 87.28      | -37.77    | 649378.47         | 591875.97          | 0.88          |          |
| 3120.00                                                             | 1.440           | 10.420      | 3117.27  | 58.26          | 88.56      | -37.51    | 649378.73         | 591877.26          | 0.28          |          |
| 3170.00                                                             | 1.520           | 5.740       | 3167.25  | 58.40          | 89.84      | -37.33    | 649378.91         | 591878.53          | 0.29          |          |



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| REFERENCE WELLPATH IDENTIFICATION |                                  |          |              |
|-----------------------------------|----------------------------------|----------|--------------|
| Operator                          | BOPCO, LP                        | Slot     | No. 258H SHL |
| Area                              | Eddy County, NM                  | Well     | No. 258H     |
| Field                             | Big Eddy                         | Wellbore | No. 258H AWB |
| Facility                          | Big Eddy Unit No.258H & No. 259H |          |              |

| WELLPATH DATA (194 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] | DLS<br>[°/100ft] | Comments |
| 3220.00                      | 1.680              | 7.850          | 3217.23     | 58.58             | 91.23         | -37.16       | 649379.07            | 591879.92             | 0.34             |          |
| 3270.00                      | 1.670              | 5.420          | 3267.21     | 58.77             | 92.68         | -36.99       | 649379.24            | 591881.37             | 0.14             |          |
| 3320.00                      | 1.660              | 1.820          | 3317.19     | 59.04             | 94.13         | -36.90       | 649379.33            | 591882.82             | 0.21             |          |
| 3370.00                      | 1.770              | 19.760         | 3367.17     | 59.13             | 95.58         | -36.62       | 649379.62            | 591884.27             | 1.09             |          |
| 3420.00                      | 2.290              | 37.730         | 3417.14     | 58.66             | 97.09         | -35.74       | 649380.49            | 591885.79             | 1.63             |          |
| 3470.00                      | 2.580              | 34.350         | 3467.09     | 57.88             | 98.81         | -34.50       | 649381.73            | 591887.51             | 0.65             |          |
| 3520.00                      | 2.630              | 35.870         | 3517.04     | 57.07             | 100.67        | -33.19       | 649383.04            | 591889.37             | 0.17             |          |
| 3570.00                      | 2.650              | 34.520         | 3566.99     | 56.25             | 102.55        | -31.86       | 649384.37            | 591891.25             | 0.13             |          |
| 3586.00                      | 2.800              | 42.400         | 3582.97     | 55.94             | 103.15        | -31.39       | 649384.84            | 591891.84             | 2.52             |          |
| 3681.00                      | 1.500              | 12.600         | 3677.90     | 54.88             | 106.08        | -29.55       | 649386.68            | 591894.77             | 1.76             |          |
| 3776.00                      | 1.400              | 356.900        | 3772.87     | 55.27             | 108.45        | -29.35       | 649386.89            | 591897.14             | 0.43             |          |
| 3872.00                      | 0.700              | 329.500        | 3868.86     | 56.03             | 110.12        | -29.71       | 649386.53            | 591898.82             | 0.88             |          |
| 3967.00                      | 0.700              | 321.400        | 3963.85     | 56.90             | 111.08        | -30.36       | 649385.87            | 591899.77             | 0.10             |          |
| 4063.00                      | 0.700              | 310.300        | 4059.84     | 57.90             | 111.91        | -31.18       | 649385.06            | 591900.61             | 0.14             |          |
| 4158.00                      | 0.600              | 328.100        | 4154.84     | 58.78             | 112.71        | -31.88       | 649384.35            | 591901.40             | 0.24             |          |
| 4345.00                      | 0.800              | 335.100        | 4341.82     | 60.31             | 114.73        | -32.95       | 649383.28            | 591903.42             | 0.12             |          |
| 4440.00                      | 0.500              | 318.000        | 4436.82     | 61.08             | 115.64        | -33.51       | 649382.73            | 591904.33             | 0.37             |          |
| 4536.00                      | 0.800              | 323.300        | 4532.81     | 61.95             | 116.49        | -34.19       | 649382.05            | 591905.18             | 0.32             |          |
| 4632.00                      | 0.700              | 330.900        | 4628.80     | 62.87             | 117.54        | -34.87       | 649381.36            | 591906.23             | 0.15             |          |
| 4727.00                      | 0.800              | 330.800        | 4723.79     | 63.73             | 118.62        | -35.48       | 649380.75            | 591907.31             | 0.11             |          |
| 4823.00                      | 0.500              | 329.800        | 4819.79     | 64.48             | 119.57        | -36.02       | 649380.22            | 591908.26             | 0.31             |          |
| 4918.00                      | 0.800              | 318.100        | 4914.78     | 65.32             | 120.42        | -36.67       | 649379.57            | 591909.11             | 0.34             |          |
| 5013.00                      | 0.700              | 340.900        | 5009.77     | 66.20             | 121.46        | -37.30       | 649378.93            | 591910.15             | 0.33             |          |
| 5109.00                      | 0.800              | 310.800        | 5105.77     | 67.12             | 122.45        | -38.00       | 649378.23            | 591911.15             | 0.42             |          |
| 5204.00                      | 0.800              | 311.800        | 5200.76     | 68.30             | 123.33        | -39.00       | 649377.24            | 591912.02             | 0.01             |          |
| 5300.00                      | 0.200              | 307.900        | 5296.75     | 69.05             | 123.88        | -39.63       | 649376.61            | 591912.57             | 0.63             |          |
| 5396.00                      | 0.300              | 351.800        | 5392.75     | 69.30             | 124.23        | -39.80       | 649376.44            | 591912.92             | 0.22             |          |
| 5491.00                      | 0.700              | 323.600        | 5487.75     | 69.84             | 124.94        | -40.17       | 649376.06            | 591913.64             | 0.48             |          |
| 5586.00                      | 0.600              | 327.600        | 5582.74     | 70.65             | 125.83        | -40.79       | 649375.45            | 591914.52             | 0.12             |          |
| 5778.00                      | 0.700              | 352.200        | 5774.73     | 71.83             | 127.84        | -41.48       | 649374.75            | 591916.53             | 0.15             |          |
| 5968.00                      | 0.700              | 347.100        | 5964.72     | 72.80             | 130.12        | -41.90       | 649374.33            | 591918.81             | 0.03             |          |
| 6159.00                      | 1.000              | 335.100        | 6155.70     | 74.38             | 132.77        | -42.86       | 649373.37            | 591921.46             | 0.18             |          |
| 6350.00                      | 0.800              | 317.500        | 6346.67     | 76.55             | 135.27        | -44.46       | 649371.77            | 591923.96             | 0.18             |          |
| 6541.00                      | 0.900              | 321.500        | 6537.65     | 78.87             | 137.42        | -46.30       | 649369.93            | 591926.12             | 0.06             |          |
| 6732.00                      | 0.900              | 322.100        | 6728.63     | 81.25             | 139.78        | -48.15       | 649368.08            | 591928.47             | 0.00             |          |
| 6924.00                      | 1.000              | 336.900        | 6920.60     | 83.46             | 142.51        | -49.74       | 649366.49            | 591931.20             | 0.14             |          |
| 7115.00                      | 0.600              | 328.200        | 7111.58     | 85.19             | 144.90        | -50.92       | 649365.31            | 591933.59             | 0.22             |          |
| 7306.00                      | 0.700              | 351.000        | 7302.57     | 86.37             | 146.90        | -51.63       | 649364.60            | 591935.59             | 0.14             |          |
| 7496.00                      | 0.700              | 0.500          | 7492.56     | 87.11             | 149.21        | -51.80       | 649364.43            | 591937.90             | 0.06             |          |
| 7687.00                      | 0.100              | 263.600        | 7683.55     | 87.55             | 150.35        | -51.96       | 649364.28            | 591939.04             | 0.38             |          |
| 7878.00                      | 0.100              | 309.400        | 7874.55     | 87.85             | 150.44        | -52.25       | 649363.98            | 591939.13             | 0.04             |          |
| 8068.00                      | 0.200              | 159.400        | 8064.55     | 87.81             | 150.24        | -52.26       | 649363.97            | 591938.93             | 0.15             |          |
| 8259.00                      | 0.400              | 157.100        | 8255.55     | 87.22             | 149.31        | -51.88       | 649364.35            | 591938.00             | 0.10             |          |
| 8426.00                      | 0.200              | 60.500         | 8422.55     | 86.66             | 148.92        | -51.40       | 649364.83            | 591937.61             | 0.28             |          |
| 8475.00                      | 0.400              | 293.000        | 8471.55     | 86.76             | 149.02        | -51.49       | 649364.75            | 591937.71             | 1.11             |          |



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## REFERENCE WELLPATH IDENTIFICATION

|          |                                  |          |              |
|----------|----------------------------------|----------|--------------|
| Operator | BOPCO, LP                        | Slot     | No. 258H SHL |
| Area     | Eddy County, NM                  | Well     | No. 258H     |
| Field    | Big Eddy                         | Wellbore | No. 258H AWB |
| Facility | Big Eddy Unit No.258H & No. 259H |          |              |

## WELLPATH DATA (194 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] | DLS<br>[°/100ft] | Comments |
|------------|--------------------|----------------|-------------|-------------------|---------------|--------------|----------------------|-----------------------|------------------|----------|
| 8507.00    | 3.200              | 317.700        | 8503.53     | 87.62             | 149.73        | -52.19       | 649364.04            | 591938.42             | 8.88             |          |
| 8538.00    | 6.800              | 323.700        | 8534.40     | 89.76             | 151.85        | -53.86       | 649362.37            | 591940.54             | 11.72            |          |
| 8570.00    | 10.900             | 324.700        | 8566.02     | 93.53             | 155.85        | -56.73       | 649359.50            | 591944.54             | 12.82            |          |
| 8602.00    | 15.400             | 326.200        | 8597.17     | 99.00             | 161.85        | -60.85       | 649355.39            | 591950.54             | 14.10            |          |
| 8634.00    | 19.000             | 325.800        | 8627.73     | 106.07            | 169.69        | -66.14       | 649350.10            | 591958.38             | 11.26            |          |
| 8665.00    | 22.300             | 327.800        | 8656.74     | 114.12            | 178.84        | -72.11       | 649344.12            | 591967.53             | 10.88            |          |
| 8697.00    | 25.100             | 328.500        | 8686.04     | 123.40            | 189.77        | -78.89       | 649337.34            | 591978.46             | 8.79             |          |
| 8729.00    | 27.700             | 329.500        | 8714.70     | 133.51            | 201.97        | -86.22       | 649330.02            | 591990.66             | 8.24             |          |
| 8761.00    | 30.100             | 331.100        | 8742.71     | 144.25            | 215.40        | -93.87       | 649322.37            | 592004.09             | 7.88             |          |
| 8792.00    | 33.200             | 332.500        | 8769.10     | 155.24            | 229.74        | -101.55      | 649314.69            | 592018.43             | 10.28            |          |
| 8824.00    | 36.500             | 333.300        | 8795.35     | 167.33            | 246.02        | -109.87      | 649306.36            | 592034.70             | 10.41            |          |
| 8856.00    | 39.100             | 334.300        | 8820.64     | 180.07            | 263.62        | -118.53      | 649297.71            | 592052.30             | 8.35             |          |
| 8888.00    | 40.900             | 334.000        | 8845.15     | 193.34            | 282.13        | -127.50      | 649288.74            | 592070.81             | 5.66             |          |
| 8919.00    | 42.700             | 334.200        | 8868.26     | 206.69            | 300.71        | -136.52      | 649279.72            | 592089.39             | 5.82             |          |
| 8951.00    | 44.100             | 333.800        | 8891.51     | 220.92            | 320.47        | -146.16      | 649270.08            | 592109.15             | 4.46             |          |
| 8983.00    | 45.600             | 333.900        | 8914.19     | 235.56            | 340.73        | -156.10      | 649260.14            | 592129.41             | 4.69             |          |
| 9015.00    | 48.300             | 334.700        | 8936.04     | 250.60            | 361.80        | -166.24      | 649250.00            | 592150.48             | 8.63             |          |
| 9046.00    | 51.200             | 335.000        | 8956.06     | 265.64            | 383.22        | -176.29      | 649239.95            | 592171.89             | 9.38             |          |
| 9078.00    | 54.000             | 335.900        | 8975.50     | 281.59            | 406.34        | -186.85      | 649229.39            | 592195.01             | 9.03             |          |
| 9110.00    | 57.400             | 337.300        | 8993.53     | 297.76            | 430.60        | -197.34      | 649218.90            | 592219.27             | 11.22            |          |
| 9142.00    | 59.600             | 337.600        | 9010.25     | 314.13            | 455.80        | -207.80      | 649208.44            | 592244.47             | 6.92             |          |
| 9173.00    | 61.600             | 337.800        | 9025.47     | 330.24            | 480.78        | -218.05      | 649198.19            | 592269.45             | 6.48             |          |
| 9205.00    | 64.000             | 337.000        | 9040.09     | 347.34            | 507.06        | -228.99      | 649187.26            | 592295.72             | 7.82             |          |
| 9237.00    | 66.700             | 336.200        | 9053.44     | 365.14            | 533.74        | -240.54      | 649175.70            | 592322.41             | 8.74             |          |
| 9268.00    | 69.400             | 335.500        | 9065.02     | 383.03            | 559.98        | -252.31      | 649163.94            | 592348.64             | 8.96             |          |
| 9300.00    | 71.600             | 335.200        | 9075.71     | 402.00            | 587.39        | -264.89      | 649151.36            | 592376.05             | 6.93             |          |
| 9332.00    | 73.900             | 335.100        | 9085.19     | 421.30            | 615.12        | -277.73      | 649138.52            | 592403.78             | 7.19             |          |
| 9364.00    | 76.900             | 335.100        | 9093.26     | 440.88            | 643.20        | -290.76      | 649125.48            | 592431.86             | 9.38             |          |
| 9395.00    | 79.300             | 334.900        | 9099.65     | 460.11            | 670.69        | -303.58      | 649112.67            | 592459.35             | 7.77             |          |
| 9427.00    | 81.200             | 334.600        | 9105.07     | 480.20            | 699.22        | -317.04      | 649099.21            | 592487.87             | 6.01             |          |
| 9459.00    | 81.600             | 334.100        | 9109.86     | 500.53            | 727.74        | -330.73      | 649085.52            | 592516.39             | 1.99             |          |
| 9491.00    | 81.800             | 333.700        | 9114.47     | 521.06            | 756.18        | -344.66      | 649071.59            | 592544.82             | 1.39             |          |
| 9523.00    | 82.200             | 333.700        | 9118.93     | 541.69            | 784.58        | -358.70      | 649057.55            | 592573.23             | 1.25             |          |
| 9555.00    | 82.100             | 333.300        | 9123.30     | 562.42            | 812.95        | -372.85      | 649043.41            | 592601.60             | 1.28             |          |
| 9586.00    | 82.200             | 332.800        | 9127.53     | 582.68            | 840.33        | -386.77      | 649029.49            | 592628.97             | 1.63             |          |
| 9618.00    | 82.700             | 332.800        | 9131.74     | 603.71            | 868.54        | -401.27      | 649014.99            | 592657.18             | 1.56             |          |
| 9650.00    | 86.500             | 332.800        | 9134.75     | 624.83            | 896.87        | -415.83      | 649000.43            | 592685.51             | 11.87            |          |
| 9682.00    | 90.600             | 331.200        | 9135.56     | 646.36            | 925.11        | -430.84      | 648985.42            | 592713.75             | 13.75            |          |
| 9714.00    | 93.000             | 330.000        | 9134.55     | 668.47            | 952.97        | -446.54      | 648969.72            | 592741.61             | 8.38             |          |
| 9746.00    | 92.900             | 332.300        | 9132.91     | 691.33            | 980.26        | -463.17      | 648953.10            | 592768.90             | 8.43             |          |
| 9777.00    | 92.600             | 324.300        | 9131.42     | 714.53            | 1005.87       | -480.57      | 648935.69            | 592794.50             | 9.71             |          |
| 9809.00    | 92.200             | 321.100        | 9130.08     | 739.59            | 1031.30       | -499.94      | 648916.32            | 592819.93             | 10.07            |          |
| 9841.00    | 91.300             | 318.500        | 9129.10     | 765.63            | 1055.73       | -520.58      | 648895.68            | 592844.36             | 8.59             |          |
| 9873.00    | 90.600             | 315.200        | 9128.57     | 792.61            | 1079.07       | -542.46      | 648873.80            | 592867.69             | 10.54            |          |
| 9904.00    | 89.800             | 314.900        | 9128.46     | 819.66            | 1100.42       | -564.93      | 648851.34            | 592889.05             | 10.95            |          |



# Actual Wellpath Report

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| REFERENCE WELLPATH IDENTIFICATION |                                  |          |              |
|-----------------------------------|----------------------------------|----------|--------------|
| Operator                          | BOPCO, LP                        | Slot     | No. 258H SHL |
| Area                              | Eddy County, NM                  | Well     | No. 258H     |
| Field                             | Big Eddy                         | Wellbore | No. 258H AWB |
| Facility                          | Big Eddy Unit No.258H & No. 259H |          |              |

| WELLPATH DATA (194 stations) |                 |             |          |                |            |           |                   |                    |               |          |
|------------------------------|-----------------|-------------|----------|----------------|------------|-----------|-------------------|--------------------|---------------|----------|
| MD [ft]                      | Inclination [°] | Azimuth [°] | TVD [ft] | Vert Sect [ft] | North [ft] | East [ft] | Grid East [US ft] | Grid North [US ft] | DLS [°/100ft] | Comments |
| 9936.00                      | 89.500          | 308.700     | 9128.66  | 848.42         | 1121.12    | -589.33   | 648826.94         | 592909.74          | 10.04         |          |
| 9968.00                      | 89.400          | 305.500     | 9128.96  | 877.92         | 1140.41    | -614.85   | 648801.42         | 592929.04          | 10.00         |          |
| 10000.00                     | 90.400          | 302.800     | 9129.02  | 908.02         | 1158.38    | -641.33   | 648774.95         | 592947.00          | 9.00          |          |
| 10032.00                     | 90.500          | 300.100     | 9128.77  | 938.60         | 1175.07    | -668.62   | 648747.65         | 592963.69          | 8.44          |          |
| 10064.00                     | 90.500          | 297.300     | 9128.49  | 969.59         | 1190.44    | -696.69   | 648719.59         | 592979.05          | 8.75          |          |
| 10095.00                     | 89.600          | 293.900     | 9128.46  | 999.99         | 1203.83    | -724.64   | 648691.64         | 592992.45          | 11.35         |          |
| 10127.00                     | 88.400          | 289.800     | 9129.02  | 1031.70        | 1215.73    | -754.33   | 648661.95         | 593004.35          | 13.35         |          |
| 10159.00                     | 88.000          | 285.800     | 9130.03  | 1063.62        | 1225.51    | -784.78   | 648631.51         | 593014.13          | 12.56         |          |
| 10191.00                     | 87.900          | 284.400     | 9131.17  | 1095.60        | 1233.84    | -815.65   | 648600.64         | 593022.46          | 4.38          |          |
| 10223.00                     | 88.300          | 284.800     | 9132.23  | 1127.58        | 1241.90    | -846.60   | 648569.69         | 593030.52          | 15.77         |          |
| 10255.00                     | 88.700          | 282.700     | 9133.07  | 1159.57        | 1249.50    | -877.67   | 648538.62         | 593038.12          | 6.68          |          |
| 10286.00                     | 89.100          | 280.400     | 9133.66  | 1190.52        | 1255.71    | -908.03   | 648508.26         | 593044.32          | 7.53          |          |
| 10318.00                     | 88.800          | 277.500     | 9134.25  | 1222.37        | 1260.69    | -939.64   | 648476.66         | 593049.30          | 9.11          |          |
| 10350.00                     | 88.200          | 274.900     | 9135.09  | 1254.04        | 1264.14    | -971.44   | 648444.86         | 593052.76          | 8.34          |          |
| 10382.00                     | 87.400          | 272.200     | 9136.32  | 1285.45        | 1266.12    | -1003.35  | 648412.95         | 593054.74          | 8.79          |          |
| 10414.00                     | 87.600          | 269.900     | 9137.71  | 1316.56        | 1266.71    | -1035.31  | 648380.99         | 593055.32          | 7.21          |          |
| 10446.00                     | 88.100          | 269.100     | 9138.91  | 1347.47        | 1266.43    | -1067.28  | 648349.02         | 593055.04          | 2.95          |          |
| 10478.00                     | 89.300          | 268.700     | 9139.64  | 1378.31        | 1265.81    | -1099.27  | 648317.03         | 593054.43          | 3.95          |          |
| 10573.00                     | 92.100          | 269.700     | 9138.48  | 1470.00        | 1264.49    | -1194.24  | 648222.07         | 593053.10          | 3.13          |          |
| 10669.00                     | 92.200          | 269.100     | 9134.88  | 1562.72        | 1263.48    | -1290.17  | 648126.15         | 593052.10          | 0.63          |          |
| 10764.00                     | 91.900          | 270.200     | 9131.48  | 1654.54        | 1262.90    | -1385.11  | 648031.22         | 593051.52          | 1.20          |          |
| 10860.00                     | 92.600          | 270.000     | 9127.71  | 1747.52        | 1263.07    | -1481.03  | 647935.30         | 593051.68          | 0.76          |          |
| 10955.00                     | 90.700          | 270.900     | 9124.98  | 1839.70        | 1263.82    | -1575.98  | 647840.35         | 593052.43          | 2.21          |          |
| 11051.00                     | 89.800          | 271.100     | 9124.56  | 1933.12        | 1265.49    | -1671.97  | 647744.38         | 593054.11          | 0.96          |          |
| 11146.00                     | 90.700          | 270.700     | 9124.14  | 2025.52        | 1266.98    | -1766.95  | 647649.40         | 593055.60          | 1.04          |          |
| 11242.00                     | 91.900          | 269.900     | 9121.96  | 2118.63        | 1267.49    | -1862.92  | 647553.43         | 593056.10          | 1.50          |          |
| 11337.00                     | 90.800          | 269.300     | 9119.73  | 2210.48        | 1266.82    | -1957.89  | 647458.47         | 593055.44          | 1.32          |          |
| 11433.00                     | 91.100          | 268.600     | 9118.13  | 2303.03        | 1265.06    | -2053.86  | 647362.50         | 593053.68          | 0.79          |          |
| 11528.00                     | 91.200          | 269.700     | 9116.23  | 2394.70        | 1263.66    | -2148.83  | 647267.54         | 593052.27          | 1.16          |          |
| 11624.00                     | 91.100          | 271.200     | 9114.30  | 2487.87        | 1264.41    | -2244.81  | 647171.57         | 593053.02          | 1.57          |          |
| 11719.00                     | 90.400          | 271.900     | 9113.06  | 2580.51        | 1266.98    | -2339.76  | 647076.62         | 593055.59          | 1.04          |          |
| 11815.00                     | 91.700          | 270.700     | 9111.30  | 2674.02        | 1269.16    | -2435.72  | 646980.68         | 593057.77          | 1.84          |          |
| 11910.00                     | 91.700          | 270.200     | 9108.48  | 2766.21        | 1269.90    | -2530.67  | 646885.73         | 593058.52          | 0.53          |          |
| 12006.00                     | 90.500          | 270.200     | 9106.64  | 2859.29        | 1270.24    | -2626.65  | 646789.75         | 593058.85          | 1.25          |          |
| 12102.00                     | 89.000          | 268.500     | 9107.06  | 2952.02        | 1269.15    | -2722.64  | 646693.77         | 593057.76          | 2.36          |          |
| 12197.00                     | 89.900          | 268.200     | 9107.97  | 3043.34        | 1266.41    | -2817.60  | 646598.82         | 593055.03          | 1.00          |          |
| 12292.00                     | 91.500          | 267.900     | 9106.81  | 3134.53        | 1263.18    | -2912.53  | 646503.90         | 593051.80          | 1.71          |          |
| 12388.00                     | 91.600          | 268.800     | 9104.21  | 3226.78        | 1260.42    | -3008.45  | 646407.98         | 593049.03          | 0.94          |          |
| 12483.00                     | 91.300          | 270.200     | 9101.81  | 3318.59        | 1259.59    | -3103.42  | 646313.02         | 593048.20          | 1.51          |          |
| 12579.00                     | 90.300          | 272.300     | 9100.47  | 3412.08        | 1261.68    | -3199.38  | 646217.07         | 593050.30          | 2.42          |          |
| 12674.00                     | 89.300          | 273.300     | 9100.80  | 3505.17        | 1266.32    | -3294.26  | 646122.19         | 593054.94          | 1.49          |          |
| 12769.00                     | 89.600          | 274.200     | 9101.71  | 3598.55        | 1272.54    | -3389.05  | 646027.40         | 593061.15          | 1.00          |          |
| 12865.00                     | 92.100          | 273.700     | 9100.29  | 3692.96        | 1279.15    | -3484.81  | 645931.66         | 593067.76          | 2.66          |          |
| 12960.00                     | 91.900          | 271.800     | 9096.97  | 3785.96        | 1283.70    | -3579.64  | 645836.84         | 593072.32          | 2.01          |          |
| 13056.00                     | 91.000          | 271.300     | 9094.54  | 3879.56        | 1286.30    | -3675.57  | 645740.91         | 593074.91          | 1.07          |          |



# Actual Wellpath Report

No. 258H AWP - Final

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## REFERENCE WELLPATH IDENTIFICATION

|          |                                  |          |              |
|----------|----------------------------------|----------|--------------|
| Operator | BOPCO, LP                        | Slot     | No. 258H SHL |
| Area     | Eddy County, NM                  | Well     | No. 258H     |
| Field    | Big Eddy                         | Wellbore | No. 258H AWB |
| Facility | Big Eddy Unit No.258H & No. 259H |          |              |

## WELLPATH DATA (194 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] | DLS<br>[°/100ft] | Comments |
|------------|--------------------|----------------|-------------|-------------------|---------------|--------------|----------------------|-----------------------|------------------|----------|
| 13162.00   | 91.100             | 269.700        | 9092.60     | 3982.46           | 1287.22       | -3781.54     | 645634.94            | 593075.84             | 1.51             |          |
| 13258.00   | 91.900             | 268.900        | 9090.08     | 4075.15           | 1286.05       | -3877.50     | 645538.99            | 593074.66             | 1.18             |          |
| 13353.00   | 92.700             | 267.800        | 9086.27     | 4166.40           | 1283.32       | -3972.38     | 645444.11            | 593071.93             | 1.43             |          |
| 13448.00   | 91.800             | 267.600        | 9082.54     | 4257.36           | 1279.51       | -4067.23     | 645349.27            | 593068.12             | 0.97             |          |
| 13544.00   | 90.700             | 267.500        | 9080.45     | 4349.25           | 1275.41       | -4163.12     | 645253.39            | 593064.02             | 1.15             |          |
| 13639.00   | 89.200             | 267.600        | 9080.53     | 4440.20           | 1271.35       | -4258.03     | 645158.49            | 593059.96             | 1.58             |          |
| 13735.00   | 89.600             | 267.300        | 9081.54     | 4532.06           | 1267.07       | -4353.93     | 645062.59            | 593055.69             | 0.52             |          |
| 13830.00   | 90.900             | 266.000        | 9081.12     | 4622.57           | 1261.52       | -4448.76     | 644967.77            | 593050.14             | 1.94             |          |
| 13926.00   | 90.700             | 265.600        | 9079.78     | 4713.59           | 1254.49       | -4544.50     | 644872.04            | 593043.11             | 0.47             |          |
| 14022.00   | 90.200             | 265.200        | 9079.03     | 4804.40           | 1246.79       | -4640.18     | 644776.36            | 593035.41             | 0.67             |          |
| 14117.00   | 89.800             | 266.400        | 9079.03     | 4894.47           | 1239.84       | -4734.93     | 644681.62            | 593028.45             | 1.33             |          |
| 14212.00   | 89.400             | 267.100        | 9079.69     | 4985.03           | 1234.45       | -4829.77     | 644586.78            | 593023.07             | 0.85             |          |
| 14239.00   | 89.100             | 267.300        | 9080.04     | 5010.83           | 1233.13       | -4856.74     | 644559.82            | 593021.75             | 1.34             |          |
| 14310.00   | 89.100             | 267.300        | 9081.16     | 5078.71           | 1229.79       | -4927.65     | 644488.91            | 593018.41             | 0.00             |          |

## 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. 258H PBHL/TD         |            | 9081.00     | 1250.95       | -4898.13     | 644518.43            | 593039.56             | 32°37'46.169"N | 103°51'50.053"W | point |
| No. 258H PBHL/TD (Rev-1) |            | 9081.00     | 1551.40       | -4930.06     | 644486.50            | 593340.00             | 32°37'49.143"N | 103°51'50.411"W | point |

## WELLPATH COMPOSITION - Ref Wellbore: No. 258H AWB - Ref Wellpath: No. 258H AWP - Final

| Start MD<br>[ft] | End MD<br>[ft] | Positional Uncertainty Model           | Log Name/Comment              | Wellbore     |
|------------------|----------------|----------------------------------------|-------------------------------|--------------|
| 30.00            | 3570.00        | Generic gyro - northseeking (Standard) | MS Gyros <62'-3570>           | No. 258H AWB |
| 3570.00          | 14239.00       | NaviTrak (Standard)                    | BHI Navitrak MWD <3586'-XXXX> | No. 258H AWB |
| 14239.00         | 14310.00       | Blind Drilling (std)                   | Projection to bit             | No. 258H AWB |