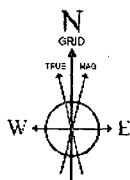
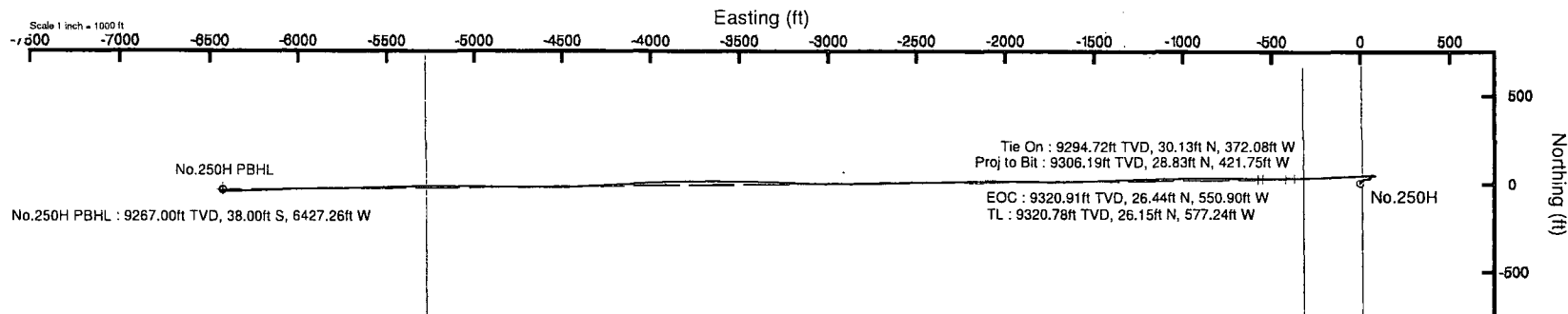




# BOPCO, L.P.

Location: Eddy County, NM  
Field: Big Eddy  
Facility: Big Eddy Unit No.250H

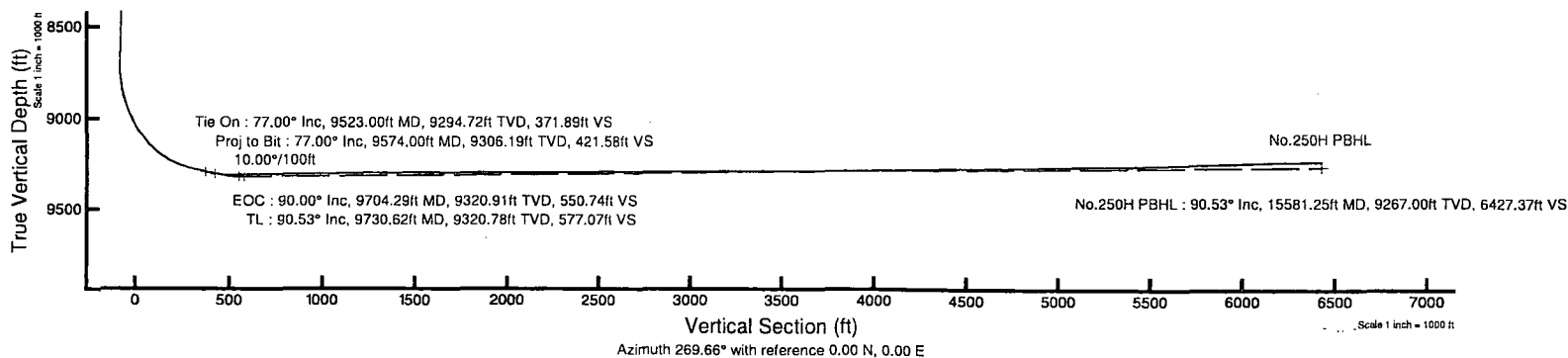
Slot: No.250H  
Well: No.250H  
Wellbore: No.250H PWB



BGGM (1945.0 to 2013.0) Dip: 60.45° Field: 48750.2 nT  
Magnetic North is 7.73 degrees East of True North (at 23/Mar/2012)  
Grid North is 0.27 degrees East of True North  
To correct azimuth from True to Grid subtract 0.27 degrees  
To correct azimuth from Magnetic to Grid add 7.45 degrees  
For example: if the Magnetic North Azimuth = 90 degs, then the Grid North Azimuth = 90 + 7.45 = 97.45

| Well Profile Data |          |         |         |          |              |              |               |         |
|-------------------|----------|---------|---------|----------|--------------|--------------|---------------|---------|
| Design Comment    | MD (ft)  | Inc (°) | Az (°)  | TVD (ft) | Local N (ft) | Local E (ft) | DLS (°/100ft) | VS (ft) |
| Tie On            | 9523.00  | 77.000  | 268.500 | 9294.72  | 30.13        | -372.08      | 0.00          | 371.89  |
| Proj to Bit       | 9574.00  | 77.000  | 268.500 | 9306.19  | 28.83        | -421.75      | 0.00          | 421.58  |
| EOC               | 9704.29  | 90.000  | 269.372 | 9320.91  | 26.44        | -550.90      | 10.00         | 550.74  |
| TL                | 9730.62  | 90.527  | 269.372 | 9320.78  | 26.15        | -577.24      | 2.00          | 577.07  |
| No.250H PBHL      | 15581.25 | 90.527  | 269.372 | 9267.00  | -38.00       | -6427.26     | 0.00          | 6427.37 |

|                                                            |                                                                     |
|------------------------------------------------------------|---------------------------------------------------------------------|
| Plot reference wellpath is Rev-H.0                         |                                                                     |
| True vertical depths are referenced to Rig on No.250H (KB) | Grid System: NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet |
| Measured depths are referenced to Rig on No.250H (KB)      | North Reference: Grid north                                         |
| Rig on No.250H (KB) to Mean Sea Level: 3506 feet           | Scale: True distance                                                |
| Mean Sea Level to Mud line (At Slot: No.250H): -3479 feet  | Depths are in feet                                                  |
| Coordinates are in feet referenced to Slot                 | Created by: gentriby on 27/Sep/2013                                 |



Rev-H.0

30-05-40498



# Actual Wellpath Report

No.250H AWP

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## REFERENCE WELLPATH IDENTIFICATION

|          |                       |          |             |
|----------|-----------------------|----------|-------------|
| Operator | BOPCO, L.P.           | Slot     | No.250H     |
| Area     | Eddy County, NM       | Well     | No.250H     |
| Field    | Big Eddy              | Wellbore | No.250H AWB |
| Facility | Big Eddy Unit No.250H |          |             |

## REPORT SETUP INFORMATION

|                     |                                                        |                      |                           |
|---------------------|--------------------------------------------------------|----------------------|---------------------------|
| Projection System   | NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet | Software System      | WellArchitect® 4.0.1      |
| North Reference     | Grid                                                   | User                 | Gentbry                   |
| Scale               | 0.999937                                               | Report Generated     | 10/7/2013 at 9:30:57 AM   |
| Convergence at slot | 0.27° East                                             | Database/Source file | MidlandDB/No.250H_AWB.xml |

## WELLPATH LOCATION

|                       | Local coordinates |          | Grid coordinates |                 | Geographic coordinates |                 |
|-----------------------|-------------------|----------|------------------|-----------------|------------------------|-----------------|
|                       | North[ft]         | East[ft] | Easting[US ft]   | Northing[US ft] | Latitude               | Longitude       |
| Slot Location         | 0.00              | 0.00     | 654727.13        | 587821.94       | 32°36'54.077"N         | 103°49'50.969"W |
| Facility Reference Pt |                   |          | 654727.13        | 587821.94       | 32°36'54.077"N         | 103°49'50.969"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.250H (KB) to Facility Vertical Datum    | 27.00ft           |
| Horizontal Reference Pt  | Slot                | Rig on No.250H (KB) to Mean Sea Level             | 3506.00ft         |
| Vertical Reference Pt    | Rig on No.250H (KB) | Rig on No.250H (KB) to Mud Line at Slot (No.250H) | 27.00ft           |
| MD Reference Pt          | Rig on No.250H (KB) | Section Origin                                    | N 0.00, E 0.00 ft |
| Field Vertical Reference | Mean Sea Level      | Section Azimuth                                   | 269.66°           |



# Actual Wellpath Report

No.250H AWP

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## REFERENCE WELLPATH IDENTIFICATION

|          |                       |          |             |
|----------|-----------------------|----------|-------------|
| Operator | BOPCO, L.P.           | Slot     | No.250H     |
| Area     | Eddy County, NM       | Well     | No.250H     |
| Field    | Big Eddy              | Wellbore | No.250H AWP |
| Facility | Big Eddy Unit No.250H |          |             |

## WELLPATH DATA (181 stations)

| MD<br>[ft] | Inclination<br>[°] | Azimuth<br>[°] | TVD<br>[ft] | Vert Sect<br>[ft] | North<br>[ft] | East<br>[ft] | Grid East<br>[US ft] | Grid North<br>[US ft] | Latitude       | Longitude       | DLS<br>[°/100ft] | Comments |
|------------|--------------------|----------------|-------------|-------------------|---------------|--------------|----------------------|-----------------------|----------------|-----------------|------------------|----------|
| 0.00       | 0.000              | 357.190        | 0.00        | 0.00              | 0.00          | 0.00         | 654727.13            | 587821.94             | 32°36'54.077"N | 103°49'50.969"W | 0.00             |          |
| 100.00     | 0.250              | 357.190        | 100.00      | 0.01              | 0.22          | -0.01        | 654727.11            | 587822.15             | 32°36'54.079"N | 103°49'50.969"W | 0.25             |          |
| 200.00     | 0.230              | 348.620        | 200.00      | 0.06              | 0.63          | -0.06        | 654727.06            | 587822.57             | 32°36'54.083"N | 103°49'50.970"W | 0.04             |          |
| 300.00     | 0.250              | 344.200        | 300.00      | 0.15              | 1.04          | -0.16        | 654726.97            | 587822.97             | 32°36'54.087"N | 103°49'50.971"W | 0.03             |          |
| 400.00     | 0.370              | 356.380        | 400.00      | -0.23             | -1.57         | -0.24        | 654726.89            | 587823.51             | 32°36'54.092"N | 103°49'50.972"W | -0.14            |          |
| 500.00     | 0.500              | 15.970         | 499.99      | 0.13              | 2.31          | -0.14        | 654726.98            | 587824.25             | 32°36'54.100"N | 103°49'50.970"W | 0.20             |          |
| 600.00     | 0.970              | 36.190         | 599.99      | -0.50             | 3.42          | 0.48         | 654727.60            | 587825.35             | 32°36'54.110"N | 103°49'50.963"W | 0.53             |          |
| 700.00     | 1.180              | 32.940         | 699.97      | -1.57             | 4.96          | 1.54         | 654728.66            | 587826.90             | 32°36'54.126"N | 103°49'50.951"W | 0.22             |          |
| 800.00     | 1.260              | 44.140         | 799.95      | -2.90             | 6.62          | 2.86         | 654729.99            | 587828.55             | 32°36'54.142"N | 103°49'50.935"W | 0.25             |          |
| 900.00     | 1.200              | 36.610         | 899.92      | -4.30             | 8.25          | 4.26         | 654731.38            | 587830.18             | 32°36'54.158"N | 103°49'50.919"W | 0.17             |          |
| 1000.00    | 1.390              | 43.380         | 999.90      | -5.77             | 9.97          | 5.71         | 654732.84            | 587831.90             | 32°36'54.175"N | 103°49'50.902"W | 0.24             |          |
| 1100.00    | 1.150              | 44.690         | 1099.87     | -7.32             | 11.56         | 7.25         | 654734.38            | 587833.50             | 32°36'54.191"N | 103°49'50.883"W | 0.24             |          |
| 1200.00    | 1.120              | 44.750         | 1199.85     | -8.72             | 12.97         | 8.65         | 654735.77            | 587834.90             | 32°36'54.205"N | 103°49'50.867"W | 0.03             |          |
| 1300.00    | 0.920              | 55.080         | 1299.84     | -10.07            | 14.12         | 9.99         | 654737.12            | 587836.06             | 32°36'54.216"N | 103°49'50.851"W | 0.27             |          |
| 1400.00    | 0.970              | 45.200         | 1399.82     | -11.34            | 15.18         | 11.25        | 654738.37            | 587837.11             | 32°36'54.226"N | 103°49'50.837"W | 0.17             |          |
| 1500.00    | 0.960              | 63.070         | 1499.81     | -12.69            | 16.16         | 12.60        | 654739.72            | 587838.09             | 32°36'54.236"N | 103°49'50.821"W | 0.30             |          |
| 1600.00    | 1.280              | 61.410         | 1599.79     | -14.43            | 17.07         | 14.33        | 654741.45            | 587839.00             | 32°36'54.245"N | 103°49'50.800"W | 0.32             |          |
| 1700.00    | 1.260              | 55.510         | 1699.77     | -16.32            | 18.23         | 16.21        | 654743.34            | 587840.16             | 32°36'54.256"N | 103°49'50.778"W | 0.13             |          |
| 1800.00    | 1.310              | 60.680         | 1799.74     | -18.23            | 19.41         | 18.12        | 654745.24            | 587841.34             | 32°36'54.268"N | 103°49'50.756"W | 0.13             |          |
| 1900.00    | 1.490              | 59.110         | 1899.71     | -20.35            | 20.64         | 20.23        | 654747.35            | 587842.57             | 32°36'54.280"N | 103°49'50.731"W | 0.18             |          |
| 2000.00    | 1.290              | 57.990         | 1999.68     | -22.43            | 21.90         | 22.30        | 654749.42            | 587843.83             | 32°36'54.292"N | 103°49'50.707"W | 0.20             |          |
| 2100.00    | 0.840              | 72.600         | 2099.66     | -24.09            | 22.72         | 23.95        | 654751.08            | 587844.65             | 32°36'54.300"N | 103°49'50.688"W | 0.52             |          |
| 2200.00    | 0.740              | 60.410         | 2199.65     | -25.35            | 23.25         | 25.21        | 654752.34            | 587845.19             | 32°36'54.306"N | 103°49'50.673"W | 0.20             |          |
| 2300.00    | 0.640              | 76.740         | 2299.65     | -26.46            | 23.70         | 26.32        | 654753.44            | 587845.63             | 32°36'54.310"N | 103°49'50.660"W | 0.22             |          |
| 2400.00    | 0.500              | 80.740         | 2399.64     | -27.43            | 23.90         | 27.29        | 654754.42            | 587845.83             | 32°36'54.312"N | 103°49'50.649"W | 0.15             |          |
| 2500.00    | 0.280              | 52.860         | 2499.64     | -28.06            | 24.12         | 27.92        | 654755.04            | 587846.05             | 32°36'54.314"N | 103°49'50.641"W | 0.28             |          |
| 2600.00    | 0.230              | 36.280         | 2599.64     | -28.38            | 24.43         | 28.23        | 654755.35            | 587846.36             | 32°36'54.317"N | 103°49'50.637"W | 0.09             |          |
| 2700.00    | 0.280              | 129.960        | 2699.64     | -28.68            | 24.43         | 28.54        | 654755.66            | 587846.37             | 32°36'54.317"N | 103°49'50.634"W | 0.37             |          |
| 2800.00    | 0.300              | 143.360        | 2799.64     | -29.02            | 24.06         | 28.88        | 654756.00            | 587846.00             | 32°36'54.313"N | 103°49'50.630"W | 0.07             |          |
| 2900.00    | 0.410              | 134.660        | 2899.63     | -29.43            | 23.60         | 29.29        | 654756.41            | 587845.54             | 32°36'54.309"N | 103°49'50.625"W | 0.12             |          |
| 3000.00    | 0.530              | 112.360        | 2999.63     | -30.11            | 23.18         | 29.97        | 654757.10            | 587845.11             | 32°36'54.305"N | 103°49'50.617"W | 0.22             |          |
| 3100.00    | 0.420              | 114.240        | 3099.63     | -30.87            | 22.85         | 30.74        | 654757.86            | 587844.78             | 32°36'54.301"N | 103°49'50.608"W | 0.11             |          |
| 3200.00    | 0.550              | 102.490        | 3199.62     | -31.67            | 22.59         | 31.54        | 654758.66            | 587844.53             | 32°36'54.299"N | 103°49'50.599"W | 0.16             |          |
| 3300.00    | 0.750              | 71.960         | 3299.62     | -32.76            | 22.69         | 32.63        | 654759.75            | 587844.63             | 32°36'54.300"N | 103°49'50.586"W | 0.39             |          |
| 3400.00    | 0.670              | 80.630         | 3399.61     | -33.96            | 22.99         | 33.83        | 654760.95            | 587844.93             | 32°36'54.303"N | 103°49'50.572"W | 0.13             |          |
| 3500.00    | 0.840              | 72.660         | 3499.60     | -35.24            | 23.31         | 35.11        | 654762.23            | 587845.24             | 32°36'54.306"N | 103°49'50.557"W | 0.20             |          |
| 3600.00    | 0.690              | 81.440         | 3599.59     | -36.54            | 23.61         | 36.40        | 654763.52            | 587845.55             | 32°36'54.309"N | 103°49'50.542"W | 0.19             |          |
| 3700.00    | 0.710              | 74.480         | 3699.59     | -37.73            | 23.87         | 37.59        | 654764.72            | 587845.80             | 32°36'54.311"N | 103°49'50.528"W | 0.09             |          |
| 3800.00    | 0.480              | 68.250         | 3799.58     | -38.72            | 24.19         | 38.58        | 654765.70            | 587846.12             | 32°36'54.314"N | 103°49'50.517"W | 0.24             |          |
| 3900.00    | 0.280              | 99.310         | 3899.58     | -39.35            | 24.31         | 39.21        | 654766.33            | 587846.24             | 32°36'54.315"N | 103°49'50.509"W | 0.28             |          |
| 4000.00    | 0.170              | 90.810         | 3999.58     | -39.74            | 24.26         | 39.60        | 654766.72            | 587846.20             | 32°36'54.315"N | 103°49'50.505"W | 0.11             |          |
| 4100.00    | 0.200              | 112.980        | 4099.58     | -40.05            | 24.19         | 39.91        | 654767.03            | 587846.13             | 32°36'54.314"N | 103°49'50.501"W | 0.08             |          |
| 4200.00    | 0.340              | 66.210         | 4199.58     | -40.48            | 24.25         | 40.34        | 654767.46            | 587846.18             | 32°36'54.315"N | 103°49'50.496"W | 0.25             |          |
| 4300.00    | 0.410              | 63.890         | 4299.57     | -41.08            | 24.52         | 40.93        | 654768.05            | 587846.46             | 32°36'54.317"N | 103°49'50.489"W | 0.07             |          |
| 4400.00    | 0.430              | 76.030         | 4399.57     | -41.76            | 24.77         | 41.62        | 654768.74            | 587846.70             | 32°36'54.320"N | 103°49'50.481"W | 0.09             |          |



# Actual Wellpath Report

No.250H AWP

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| REFERENCE WELLPATH IDENTIFICATION |                       |          |             |
|-----------------------------------|-----------------------|----------|-------------|
| Operator                          | BOPCO, L.P.           | Slot     | No.250H     |
| Area                              | Eddy County, NM       | Well     | No.250H     |
| Field                             | Big Eddy              | Wellbore | No.250H AWP |
| Facility                          | Big Eddy Unit No.250H |          |             |

| WELLPATH DATA (181 stations) |                    |                |             |                   |               |              |                      |                       |                |                 |                  |          |
|------------------------------|--------------------|----------------|-------------|-------------------|---------------|--------------|----------------------|-----------------------|----------------|-----------------|------------------|----------|
| MD<br>[ft]                   | Inclination<br>[°] | Azimuth<br>[°] | TVD<br>[ft] | Vert Sect<br>[ft] | North<br>[ft] | East<br>[ft] | Grid East<br>[US ft] | Grid North<br>[US ft] | Latitude       | Longitude       | DLS<br>[°/100ft] | Comments |
| 4500.00                      | 0.410              | 93.420         | 4499.57     | -42.49            | 24.84         | 42.34        | 654769.46            | 587846.77             | 32°36'54.320"N | 103°49'50.473"W | 0.13             |          |
| 4600.00                      | 0.490              | 90.170         | 4599.57     | -43.27            | 24.82         | 43.12        | 654770.25            | 587846.75             | 32°36'54.320"N | 103°49'50.463"W | 0.08             |          |
| 4700.00                      | 0.460              | 88.490         | 4699.56     | -44.10            | 24.83         | 43.95        | 654771.07            | 587846.76             | 32°36'54.320"N | 103°49'50.454"W | 0.03             |          |
| 4800.00                      | 0.440              | 80.600         | 4799.56     | -44.88            | 24.90         | 44.73        | 654771.85            | 587846.83             | 32°36'54.321"N | 103°49'50.445"W | 0.07             |          |
| 4900.00                      | 0.290              | 56.990         | 4899.56     | -45.47            | 25.10         | 45.32        | 654772.45            | 587847.03             | 32°36'54.323"N | 103°49'50.438"W | 0.21             |          |
| 5000.00                      | 0.430              | 59.540         | 4999.55     | -46.01            | 25.43         | 45.86        | 654772.98            | 587847.36             | 32°36'54.326"N | 103°49'50.431"W | 0.14             |          |
| 5100.00                      | 0.400              | 42.800         | 5099.55     | -46.57            | 25.87         | 46.42        | 654773.54            | 587847.81             | 32°36'54.331"N | 103°49'50.425"W | 0.12             |          |
| 5200.00                      | 0.450              | 66.340         | 5199.55     | -47.17            | 26.29         | 47.02        | 654774.14            | 587848.22             | 32°36'54.335"N | 103°49'50.418"W | 0.18             |          |
| 5300.00                      | 0.280              | 72.540         | 5299.55     | -47.77            | 26.52         | 47.61        | 654774.73            | 587848.45             | 32°36'54.337"N | 103°49'50.411"W | 0.17             |          |
| 5400.00                      | 0.240              | 79.020         | 5399.55     | -48.21            | 26.63         | 48.05        | 654775.17            | 587848.57             | 32°36'54.338"N | 103°49'50.406"W | 0.05             |          |
| 5500.00                      | 0.360              | 60.410         | 5499.54     | -48.68            | 26.83         | 48.53        | 654775.65            | 587848.76             | 32°36'54.340"N | 103°49'50.400"W | 0.15             |          |
| 5600.00                      | 0.440              | 46.960         | 5599.54     | -49.24            | 27.24         | 49.08        | 654776.20            | 587849.18             | 32°36'54.344"N | 103°49'50.394"W | 0.12             |          |
| 5700.00                      | 0.400              | 70.020         | 5699.54     | -49.85            | 27.63         | 49.69        | 654776.81            | 587849.56             | 32°36'54.348"N | 103°49'50.386"W | 0.17             |          |
| 5800.00                      | 0.510              | 53.510         | 5799.54     | -50.54            | 28.01         | 50.38        | 654777.50            | 587849.94             | 32°36'54.351"N | 103°49'50.378"W | 0.17             |          |
| 5900.00                      | 0.570              | 45.810         | 5899.53     | -51.26            | 28.62         | 51.09        | 654778.21            | 587850.55             | 32°36'54.357"N | 103°49'50.370"W | 0.09             |          |
| 6000.00                      | 0.570              | 47.280         | 5999.53     | -51.98            | 29.31         | 51.81        | 654778.93            | 587851.24             | 32°36'54.364"N | 103°49'50.362"W | 0.01             |          |
| 6100.00                      | 0.650              | 33.640         | 6099.52     | -52.67            | 30.12         | 52.49        | 654779.61            | 587852.05             | 32°36'54.372"N | 103°49'50.354"W | 0.17             |          |
| 6200.00                      | 0.650              | 33.770         | 6199.52     | -53.30            | 31.06         | 53.12        | 654780.24            | 587852.99             | 32°36'54.382"N | 103°49'50.346"W | 0.00             |          |
| 6300.00                      | 0.850              | 30.310         | 6299.51     | -54.00            | 32.17         | 53.81        | 654780.93            | 587854.10             | 32°36'54.392"N | 103°49'50.338"W | 0.20             |          |
| 6400.00                      | 0.710              | 43.800         | 6399.50     | -54.81            | 33.26         | 54.61        | 654781.74            | 587855.19             | 32°36'54.403"N | 103°49'50.329"W | 0.23             |          |
| 6500.00                      | 0.870              | 46.540         | 6499.49     | -55.80            | 34.23         | 55.59        | 654782.72            | 587856.16             | 32°36'54.413"N | 103°49'50.317"W | 0.16             |          |
| 6600.00                      | 0.710              | 36.260         | 6599.48     | -56.72            | 35.25         | 56.51        | 654783.63            | 587857.18             | 32°36'54.423"N | 103°49'50.306"W | 0.21             |          |
| 6700.00                      | 0.880              | 35.510         | 6699.47     | -57.54            | 36.37         | 57.32        | 654784.45            | 587858.31             | 32°36'54.434"N | 103°49'50.297"W | 0.17             |          |
| 6800.00                      | 0.830              | 32.400         | 6799.46     | -58.38            | 37.61         | 58.16        | 654785.28            | 587859.54             | 32°36'54.446"N | 103°49'50.287"W | 0.07             |          |
| 6900.00                      | 0.830              | 32.100         | 6899.45     | -59.16            | 38.84         | 58.93        | 654786.05            | 587860.77             | 32°36'54.458"N | 103°49'50.278"W | 0.00             |          |
| 7000.00                      | 0.780              | 37.250         | 6999.44     | -59.96            | 39.99         | 59.73        | 654786.85            | 587861.92             | 32°36'54.470"N | 103°49'50.268"W | 0.09             |          |
| 7100.00                      | 0.710              | 39.450         | 7099.43     | -60.78            | 41.01         | 60.53        | 654787.65            | 587862.94             | 32°36'54.480"N | 103°49'50.259"W | 0.08             |          |
| 7200.00                      | 0.420              | 46.880         | 7199.42     | -61.44            | 41.74         | 61.19        | 654788.32            | 587863.67             | 32°36'54.487"N | 103°49'50.251"W | 0.30             |          |
| 7300.00                      | 0.420              | 86.860         | 7299.42     | -62.08            | 42.01         | 61.83        | 654788.95            | 587863.94             | 32°36'54.489"N | 103°49'50.244"W | 0.29             |          |
| 7400.00                      | 0.620              | 69.130         | 7399.42     | -62.95            | 42.22         | 62.70        | 654789.82            | 587864.16             | 32°36'54.492"N | 103°49'50.234"W | 0.25             |          |
| 7500.00                      | 1.390              | 57.310         | 7499.40     | -64.48            | 43.07         | 64.23        | 654791.35            | 587865.00             | 32°36'54.500"N | 103°49'50.216"W | 0.79             |          |
| 7600.00                      | 0.970              | 43.580         | 7599.38     | -66.09            | 44.34         | 65.83        | 654792.95            | 587866.27             | 32°36'54.512"N | 103°49'50.197"W | 0.50             |          |
| 7700.00                      | 0.950              | 42.730         | 7699.37     | -67.24            | 45.56         | 66.98        | 654794.10            | 587867.49             | 32°36'54.524"N | 103°49'50.183"W | 0.02             |          |
| 7800.00                      | 0.560              | 24.720         | 7799.36     | -68.02            | 46.61         | 67.74        | 654794.86            | 587868.55             | 32°36'54.535"N | 103°49'50.174"W | 0.45             |          |
| 7900.00                      | 0.290              | 94.540         | 7899.35     | -68.48            | 47.04         | 68.20        | 654795.32            | 587868.97             | 32°36'54.539"N | 103°49'50.169"W | 0.53             |          |
| 8000.00                      | 0.410              | 146.200        | 7999.35     | -68.93            | 46.72         | 68.65        | 654795.77            | 587868.65             | 32°36'54.536"N | 103°49'50.164"W | 0.32             |          |
| 8100.00                      | 0.800              | 127.710        | 8099.35     | -69.67            | 46.00         | 69.40        | 654796.52            | 587867.93             | 32°36'54.529"N | 103°49'50.155"W | 0.43             |          |
| 8200.00                      | 1.290              | 124.100        | 8199.33     | -71.15            | 44.94         | 70.89        | 654798.01            | 587866.87             | 32°36'54.518"N | 103°49'50.138"W | 0.49             |          |
| 8300.00                      | 1.470              | 124.110        | 8299.30     | -73.14            | 43.59         | 72.88        | 654800.00            | 587865.52             | 32°36'54.505"N | 103°49'50.114"W | 0.18             |          |
| 8400.00                      | 1.230              | 116.690        | 8399.27     | -75.15            | 42.39         | 74.90        | 654802.02            | 587864.32             | 32°36'54.493"N | 103°49'50.091"W | 0.30             |          |
| 8500.00                      | 1.400              | 84.070         | 8499.25     | -77.32            | 42.03         | 77.08        | 654804.20            | 587863.96             | 32°36'54.489"N | 103°49'50.065"W | 0.76             |          |
| 8600.00                      | 1.160              | 84.680         | 8599.22     | -79.55            | 42.25         | 79.30        | 654806.42            | 587864.18             | 32°36'54.491"N | 103°49'50.039"W | 0.24             |          |
| 8650.00                      | 1.140              | 95.900         | 8649.21     | -80.55            | 42.25         | 80.30        | 654807.42            | 587864.18             | 32°36'54.491"N | 103°49'50.028"W | 0.45             |          |
| 8708.00                      | 1.500              | 62.300         | 8707.20     | -81.79            | 42.54         | 81.54        | 654808.66            | 587864.47             | 32°36'54.494"N | 103°49'50.013"W | 1.44             |          |
| 8739.00                      | 1.500              | 279.100        | 8738.19     | -81.75            | 42.79         | 81.50        | 654808.62            | 587864.73             | 32°36'54.496"N | 103°49'50.014"W | 9.18             |          |



# Actual Wellpath Report

No.250H AWP

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## REFERENCE WELLPATH IDENTIFICATION

|          |                       |          |             |
|----------|-----------------------|----------|-------------|
| Operator | BOPCO, L.P.           | Slot     | No.250H     |
| Area     | Eddy County, NM       | Well     | No.250H     |
| Field    | Big Eddy              | Wellbore | No.250H AWP |
| Facility | Big Eddy Unit No.250H |          |             |

## WELLPATH DATA (181 stations)

| MD<br>[ft] | Inclination<br>[°] | Azimuth<br>[°] | TVD<br>[ft] | Vert Sect<br>[ft] | North<br>[ft] | East<br>[ft] | Grid East<br>[US ft] | Grid North<br>[US ft] | Latitude       | Longitude       | DLS<br>[°/100ft] | Comments |
|------------|--------------------|----------------|-------------|-------------------|---------------|--------------|----------------------|-----------------------|----------------|-----------------|------------------|----------|
| 8771.00    | 5.500              | 272.700        | 8770.13     | -79.81            | 42.93         | 79.56        | 654806.68            | 587864.86             | 32°36'54.498"N | 103°49'50.036"W | 12.54            |          |
| 8803.00    | 7.600              | 271.200        | 8801.92     | -76.16            | 43.05         | 75.91        | 654803.03            | 587864.98             | 32°36'54.499"N | 103°49'50.079"W | 6.58             |          |
| 8834.00    | 9.600              | 277.000        | 8832.57     | -71.55            | 43.41         | 71.29        | 654798.41            | 587865.34             | 32°36'54.503"N | 103°49'50.133"W | 7.02             |          |
| 8866.00    | 12.600             | 265.000        | 8863.97     | -65.42            | 43.43         | 65.17        | 654792.29            | 587865.36             | 32°36'54.503"N | 103°49'50.205"W | 11.79            |          |
| 8898.00    | 15.300             | 271.300        | 8895.03     | -57.72            | 43.22         | 57.47        | 654784.59            | 587865.15             | 32°36'54.502"N | 103°49'50.295"W | 9.67             |          |
| 8929.00    | 18.100             | 267.600        | 8924.72     | -48.82            | 43.11         | 48.56        | 654775.68            | 587865.04             | 32°36'54.501"N | 103°49'50.399"W | 9.66             |          |
| 8961.00    | 20.900             | 266.600        | 8954.88     | -38.15            | 42.56         | 37.90        | 654765.02            | 587864.50             | 32°36'54.496"N | 103°49'50.524"W | 8.81             |          |
| 8993.00    | 24.100             | 266.000        | 8984.44     | -25.92            | 41.77         | 25.68        | 654752.80            | 587863.70             | 32°36'54.489"N | 103°49'50.666"W | 10.03            |          |
| 9025.00    | 26.400             | 267.800        | 9013.38     | -12.29            | 41.04         | 12.05        | 654739.17            | 587862.97             | 32°36'54.482"N | 103°49'50.826"W | 7.58             |          |
| 9055.00    | 28.800             | 267.800        | 9039.96     | 1.60              | 40.51         | -1.84        | 654725.29            | 587862.44             | 32°36'54.478"N | 103°49'50.988"W | 8.00             |          |
| 9087.00    | 30.900             | 267.400        | 9067.72     | 17.51             | 39.84         | -17.75       | 654709.38            | 587861.77             | 32°36'54.472"N | 103°49'51.174"W | 6.59             |          |
| 9118.00    | 34.200             | 267.500        | 9093.84     | 34.18             | 39.10         | -34.41       | 654692.72            | 587861.03             | 32°36'54.465"N | 103°49'51.369"W | 10.65            |          |
| 9150.00    | 38.400             | 267.300        | 9119.63     | 53.10             | 38.24         | -53.33       | 654673.80            | 587860.17             | 32°36'54.458"N | 103°49'51.590"W | 13.13            |          |
| 9179.00    | 41.900             | 267.400        | 9141.79     | 71.78             | 37.37         | -72.01       | 654655.12            | 587859.30             | 32°36'54.450"N | 103°49'51.809"W | 12.07            |          |
| 9213.00    | 45.700             | 267.700        | 9166.33     | 95.30             | 36.37         | -95.51       | 654631.62            | 587858.30             | 32°36'54.441"N | 103°49'52.083"W | 11.19            |          |
| 9245.00    | 49.700             | 268.700        | 9187.86     | 118.95            | 35.63         | -119.17      | 654607.97            | 587857.56             | 32°36'54.435"N | 103°49'52.360"W | 12.71            |          |
| 9277.00    | 54.000             | 269.100        | 9207.62     | 144.11            | 35.15         | -144.32      | 654582.82            | 587857.08             | 32°36'54.431"N | 103°49'52.654"W | 13.47            |          |
| 9309.00    | 58.400             | 269.700        | 9225.42     | 170.69            | 34.88         | -170.90      | 654556.23            | 587856.81             | 32°36'54.430"N | 103°49'52.965"W | 13.84            |          |
| 9340.00    | 62.900             | 269.000        | 9240.61     | 197.71            | 34.57         | -197.91      | 654529.22            | 587856.50             | 32°36'54.428"N | 103°49'53.281"W | 14.65            |          |
| 9372.00    | 67.200             | 268.500        | 9254.10     | 226.71            | 33.93         | -226.91      | 654500.23            | 587855.86             | 32°36'54.423"N | 103°49'53.620"W | 13.51            |          |
| 9404.00    | 71.300             | 268.500        | 9265.44     | 256.62            | 33.15         | -256.82      | 654470.32            | 587855.08             | 32°36'54.417"N | 103°49'53.969"W | 12.81            |          |
| 9435.00    | 75.500             | 268.500        | 9274.29     | 286.32            | 32.37         | -286.51      | 654440.63            | 587854.30             | 32°36'54.410"N | 103°49'54.317"W | 13.55            |          |
| 9467.00    | 76.500             | 268.500        | 9282.03     | 317.36            | 31.56         | -317.55      | 654409.59            | 587853.49             | 32°36'54.404"N | 103°49'54.680"W | 3.12             |          |
| 9498.00    | 77.100             | 268.500        | 9289.11     | 347.53            | 30.77         | -347.72      | 654379.43            | 587852.70             | 32°36'54.397"N | 103°49'55.032"W | 1.94             |          |
| 9523.00    | 77.000             | 268.500        | 9294.72     | 371.89            | 30.13         | -372.08      | 654355.07            | 587852.06             | 32°36'54.392"N | 103°49'55.317"W | 0.40             |          |
| 9611.00    | 82.700             | 269.700        | 9310.22     | 458.47            | 28.78         | -458.65      | 654268.50            | 587850.71             | 32°36'54.383"N | 103°49'56.329"W | 6.61             |          |
| 9675.00    | 91.800             | 269.900        | 9313.29     | 522.33            | 28.56         | -522.51      | 654204.65            | 587850.49             | 32°36'54.384"N | 103°49'57.076"W | 14.22            |          |
| 9706.00    | 91.800             | 270.200        | 9312.31     | 553.32            | 28.58         | -553.50      | 654173.67            | 587850.52             | 32°36'54.385"N | 103°49'57.438"W | 0.97             |          |
| 9738.00    | 91.700             | 270.300        | 9311.33     | 585.30            | 28.72         | -585.48      | 654141.68            | 587850.66             | 32°36'54.388"N | 103°49'57.812"W | 0.44             |          |
| 9833.00    | 90.700             | 271.000        | 9309.34     | 680.26            | 29.80         | -680.45      | 654046.72            | 587851.73             | 32°36'54.403"N | 103°49'58.922"W | 1.28             |          |
| 9928.00    | 90.700             | 270.000        | 9308.18     | 775.25            | 30.63         | -775.44      | 653951.74            | 587852.56             | 32°36'54.416"N | 103°50'00.033"W | 1.05             |          |
| 10023.00   | 90.800             | 269.800        | 9306.94     | 870.24            | 30.46         | -870.43      | 653856.75            | 587852.40             | 32°36'54.419"N | 103°50'01.143"W | 0.24             |          |
| 10118.00   | 90.700             | 269.500        | 9305.70     | 965.23            | 29.88         | -965.42      | 653761.77            | 587851.82             | 32°36'54.417"N | 103°50'02.254"W | 0.33             |          |
| 10213.00   | 90.700             | 269.200        | 9304.54     | 1060.22           | 28.81         | -1060.41     | 653666.79            | 587850.74             | 32°36'54.411"N | 103°50'03.364"W | 0.32             |          |
| 10308.00   | 90.800             | 268.800        | 9303.29     | 1155.21           | 27.15         | -1155.39     | 653571.81            | 587849.08             | 32°36'54.399"N | 103°50'04.475"W | 0.43             |          |
| 10403.00   | 90.700             | 268.500        | 9302.05     | 1250.18           | 24.91         | -1250.35     | 653476.86            | 587846.84             | 32°36'54.381"N | 103°50'05.585"W | 0.33             |          |
| 10498.00   | 90.200             | 268.000        | 9301.30     | 1345.15           | 22.01         | -1345.30     | 653381.91            | 587843.94             | 32°36'54.357"N | 103°50'06.695"W | 0.74             |          |
| 10593.00   | 90.300             | 268.300        | 9300.89     | 1440.12           | 18.94         | -1440.25     | 653286.97            | 587840.88             | 32°36'54.331"N | 103°50'07.805"W | 0.33             |          |
| 10688.00   | 90.200             | 267.500        | 9300.47     | 1535.07           | 15.46         | -1535.19     | 653192.04            | 587837.39             | 32°36'54.301"N | 103°50'08.915"W | 0.85             |          |
| 10783.00   | 90.200             | 268.000        | 9300.14     | 1630.02           | 11.73         | -1630.11     | 653097.12            | 587833.66             | 32°36'54.269"N | 103°50'10.025"W | 0.53             |          |
| 10877.00   | 90.300             | 268.700        | 9299.73     | 1723.99           | 9.02          | -1724.07     | 653003.17            | 587830.96             | 32°36'54.246"N | 103°50'11.124"W | 0.75             |          |
| 10971.00   | 90.200             | 270.400        | 9299.32     | 1817.98           | 8.29          | -1818.07     | 652909.18            | 587830.22             | 32°36'54.243"N | 103°50'12.223"W | 1.81             |          |
| 11066.00   | 90.100             | 272.100        | 9299.07     | 1912.94           | 10.36         | -1913.04     | 652814.21            | 587832.29             | 32°36'54.268"N | 103°50'13.333"W | 1.79             |          |
| 11160.00   | 90.200             | 271.300        | 9298.83     | 2006.88           | 13.15         | -2007.00     | 652720.26            | 587835.08             | 32°36'54.300"N | 103°50'14.431"W | 0.86             |          |
| 11255.00   | 90.300             | 269.100        | 9298.41     | 2101.87           | 13.48         | -2101.99     | 652625.27            | 587835.41             | 32°36'54.308"N | 103°50'15.542"W | 2.32             |          |





# Actual Wellpath Report

No.250H AWP

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## REFERENCE WELLPATH IDENTIFICATION

|          |                       |          |             |
|----------|-----------------------|----------|-------------|
| Operator | BOPCO, L.P.           | Slot     | No.250H     |
| Area     | Eddy County, NM       | Well     | No.250H     |
| Field    | Big Eddy              | Wellbore | No.250H AWB |
| Facility | Big Eddy Unit No.250H |          |             |

## WELLPATH DATA (181 stations)

| MD<br>[ft] | Inclination<br>[°] | Azimuth<br>[°] | TVD<br>[ft] | Vert Sect<br>[ft] | North<br>[ft] | East<br>[ft] | Grid East<br>[US ft] | Grid North<br>[US ft] | Latitude       | Longitude       | DLS<br>[°/100ft] | Comments |
|------------|--------------------|----------------|-------------|-------------------|---------------|--------------|----------------------|-----------------------|----------------|-----------------|------------------|----------|
| 11350.00   | 90.800             | 268.600        | 9297.50     | 2196.86           | 11.57         | -2196.97     | 652530.30            | 587833.51             | 32°36'54.293"N | 103°50'16.652"W | 0.74             |          |
| 11445.00   | 90.400             | 268.400        | 9296.51     | 2291.83           | 9.09          | -2291.93     | 652435.35            | 587831.02             | 32°36'54.273"N | 103°50'17.762"W | 0.47             |          |
| 11540.00   | 90.100             | 269.300        | 9296.09     | 2386.82           | 7.18          | -2386.91     | 652340.38            | 587829.11             | 32°36'54.259"N | 103°50'18.873"W | 1.00             |          |
| 11635.00   | 90.100             | 268.900        | 9295.93     | 2481.82           | 5.69          | -2481.89     | 652245.39            | 587827.62             | 32°36'54.248"N | 103°50'19.983"W | 0.42             |          |
| 11730.00   | 90.100             | 268.000        | 9295.76     | 2576.79           | 3.12          | -2576.86     | 652150.44            | 587825.05             | 32°36'54.227"N | 103°50'21.094"W | 0.95             |          |
| 11825.00   | 90.200             | 268.300        | 9295.51     | 2671.76           | 0.05          | -2671.81     | 652055.49            | 587821.98             | 32°36'54.201"N | 103°50'22.204"W | 0.33             |          |
| 11920.00   | 90.200             | 269.600        | 9295.18     | 2766.75           | -1.69         | -2766.79     | 651960.52            | 587820.24             | 32°36'54.188"N | 103°50'23.314"W | 1.37             |          |
| 12014.00   | 90.100             | 269.500        | 9294.93     | 2860.75           | -2.43         | -2860.79     | 651866.53            | 587819.51             | 32°36'54.185"N | 103°50'24.413"W | 0.15             |          |
| 12109.00   | 90.100             | 269.400        | 9294.77     | 2955.75           | -3.34         | -2955.78     | 651771.54            | 587818.59             | 32°36'54.181"N | 103°50'25.524"W | 0.11             |          |
| 12204.00   | 90.200             | 271.300        | 9294.52     | 3050.74           | -2.76         | -3050.78     | 651676.55            | 587819.17             | 32°36'54.191"N | 103°50'26.634"W | 2.00             |          |
| 12299.00   | 90.200             | 272.000        | 9294.19     | 3145.68           | -0.03         | -3145.73     | 651581.60            | 587821.91             | 32°36'54.222"N | 103°50'27.744"W | 0.74             |          |
| 12394.00   | 90.200             | 272.000        | 9293.86     | 3240.60           | 3.29          | -3240.68     | 651486.66            | 587825.22             | 32°36'54.259"N | 103°50'28.854"W | 0.00             |          |
| 12488.00   | 90.100             | 271.500        | 9293.61     | 3334.54           | 6.16          | -3334.63     | 651392.71            | 587828.10             | 32°36'54.292"N | 103°50'29.952"W | 0.54             |          |
| 12583.00   | 90.200             | 271.500        | 9293.36     | 3429.49           | 8.65          | -3429.60     | 651297.75            | 587830.58             | 32°36'54.321"N | 103°50'31.063"W | 0.11             |          |
| 12678.00   | 90.100             | 270.500        | 9293.11     | 3524.46           | 10.31         | -3524.58     | 651202.77            | 587832.24             | 32°36'54.342"N | 103°50'32.173"W | 1.06             |          |
| 12773.00   | 90.200             | 270.300        | 9292.86     | 3619.45           | 10.97         | -3619.58     | 651107.78            | 587832.90             | 32°36'54.353"N | 103°50'33.283"W | 0.24             |          |
| 12868.00   | 90.600             | 269.500        | 9292.20     | 3714.45           | 10.80         | -3714.58     | 651012.79            | 587832.74             | 32°36'54.355"N | 103°50'34.394"W | 0.94             |          |
| 12963.00   | 90.700             | 268.800        | 9291.12     | 3809.44           | 9.39          | -3809.56     | 650917.81            | 587831.33             | 32°36'54.346"N | 103°50'35.504"W | 0.74             |          |
| 13058.00   | 90.600             | 267.300        | 9290.04     | 3904.39           | 6.16          | -3904.50     | 650822.88            | 587828.10             | 32°36'54.318"N | 103°50'36.615"W | 1.58             |          |
| 13152.00   | 90.700             | 267.000        | 9288.98     | 3998.29           | 1.49          | -3998.37     | 650729.01            | 587823.42             | 32°36'54.276"N | 103°50'37.712"W | 0.34             |          |
| 13247.00   | 90.700             | 267.500        | 9287.82     | 4093.20           | -3.07         | -4093.26     | 650634.14            | 587818.87             | 32°36'54.235"N | 103°50'38.822"W | 0.53             |          |
| 13342.00   | 90.800             | 267.200        | 9286.57     | 4188.12           | -7.46         | -4188.15     | 650539.25            | 587814.47             | 32°36'54.196"N | 103°50'39.931"W | 0.33             |          |
| 13437.00   | 91.600             | 267.200        | 9284.58     | 4283.01           | -12.10        | -4283.01     | 650444.39            | 587809.83             | 32°36'54.155"N | 103°50'41.041"W | 0.84             |          |
| 13532.00   | 91.700             | 266.500        | 9281.85     | 4377.85           | -17.32        | -4377.83     | 650349.58            | 587804.62             | 32°36'54.107"N | 103°50'42.149"W | 0.74             |          |
| 13626.00   | 90.200             | 268.500        | 9280.29     | 4471.77           | -21.42        | -4471.72     | 650255.70            | 587800.52             | 32°36'54.071"N | 103°50'43.247"W | 2.66             |          |
| 13721.00   | 90.600             | 270.600        | 9279.63     | 4566.76           | -22.16        | -4566.71     | 650160.72            | 587799.77             | 32°36'54.068"N | 103°50'44.358"W | 2.25             |          |
| 13816.00   | 90.700             | 270.400        | 9278.55     | 4661.74           | -21.34        | -4661.70     | 650065.73            | 587800.60             | 32°36'54.080"N | 103°50'45.468"W | 0.24             |          |
| 13910.00   | 91.100             | 270.300        | 9277.07     | 4755.72           | -20.76        | -4755.68     | 649971.75            | 587801.17             | 32°36'54.090"N | 103°50'46.567"W | 0.44             |          |
| 14006.00   | 91.200             | 270.400        | 9275.15     | 4851.70           | -20.18        | -4851.66     | 649875.78            | 587801.76             | 32°36'54.100"N | 103°50'47.689"W | 0.15             |          |
| 14101.00   | 91.100             | 270.900        | 9273.24     | 4946.66           | -19.10        | -4946.64     | 649780.81            | 587802.84             | 32°36'54.115"N | 103°50'48.799"W | 0.54             |          |
| 14195.00   | 91.100             | 270.600        | 9271.44     | 5040.63           | -17.87        | -5040.61     | 649686.84            | 587804.07             | 32°36'54.132"N | 103°50'49.898"W | 0.32             |          |
| 14291.00   | 90.700             | 270.200        | 9269.93     | 5136.61           | -17.20        | -5136.60     | 649590.86            | 587804.74             | 32°36'54.143"N | 103°50'51.020"W | 0.59             |          |
| 14385.00   | 90.700             | 269.600        | 9268.78     | 5230.60           | -17.36        | -5230.59     | 649496.88            | 587804.57             | 32°36'54.145"N | 103°50'52.119"W | 0.64             |          |
| 14479.00   | 90.600             | 269.000        | 9267.71     | 5324.59           | -18.51        | -5324.58     | 649402.90            | 587803.43             | 32°36'54.138"N | 103°50'53.217"W | 0.65             |          |
| 14574.00   | 91.700             | 268.300        | 9265.81     | 5419.56           | -20.75        | -5419.53     | 649307.95            | 587801.19             | 32°36'54.120"N | 103°50'54.328"W | 1.37             |          |
| 14669.00   | 91.600             | 268.400        | 9263.07     | 5514.49           | -23.48        | -5514.45     | 649213.04            | 587798.45             | 32°36'54.098"N | 103°50'55.437"W | 0.15             |          |
| 14764.00   | 91.700             | 267.800        | 9260.33     | 5609.42           | -26.63        | -5609.36     | 649118.13            | 587795.31             | 32°36'54.071"N | 103°50'56.547"W | 0.64             |          |
| 14858.00   | 91.700             | 267.900        | 9257.55     | 5703.33           | -30.15        | -5703.25     | 649024.25            | 587791.78             | 32°36'54.040"N | 103°50'57.645"W | 0.11             |          |
| 14954.00   | 91.600             | 269.100        | 9254.78     | 5799.27           | -32.67        | -5799.18     | 648928.33            | 587789.27             | 32°36'54.020"N | 103°50'58.767"W | 1.25             |          |
| 15049.00   | 91.700             | 269.200        | 9252.05     | 5894.22           | -34.08        | -5894.13     | 648833.38            | 587787.86             | 32°36'54.010"N | 103°50'59.877"W | 0.15             |          |
| 15144.00   | 91.600             | 268.600        | 9249.31     | 5989.18           | -35.90        | -5989.07     | 648738.45            | 587786.04             | 32°36'53.996"N | 103°51'00.987"W | 0.64             |          |
| 15236.00   | 91.700             | 268.500        | 9246.66     | 6081.12           | -38.23        | -6081.00     | 648646.52            | 587783.71             | 32°36'53.977"N | 103°51'02.062"W | 0.15             |          |
| 15332.00   | 91.700             | 268.000        | 9243.81     | 6177.05           | -41.16        | -6176.91     | 648550.62            | 587780.78             | 32°36'53.953"N | 103°51'03.183"W | 0.52             |          |
| 15427.00   | 91.100             | 268.000        | 9241.49     | 6271.98           | -44.47        | -6271.83     | 648455.71            | 587777.47             | 32°36'53.924"N | 103°51'04.293"W | 0.63             |          |
| 15508.00   | 90.700             | 268.600        | 9240.22     | 6352.95           | -46.87        | -6352.78     | 648374.76            | 587775.07             | 32°36'53.904"N | 103°51'05.239"W | 0.89             |          |



# Actual Wellpath Report

No.250H AWP

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## REFERENCE WELLPATH IDENTIFICATION

|          |                       |          |             |
|----------|-----------------------|----------|-------------|
| Operator | BOPCO, L.P.           | Slot     | No.250H     |
| Area     | Eddy County, NM       | Well     | No.250H     |
| Field    | Big Eddy              | Wellbore | No.250H AWB |
| Facility | Big Eddy Unit No.250H |          |             |

## WELLPATH DATA (181 stations)

| MD<br>[ft] | Inclination<br>[°] | Azimuth<br>[°] | TVD<br>[ft] | Vert Sect<br>[ft] | North<br>[ft] | East<br>[ft] | Grid East<br>[US ft] | Grid North<br>[US ft] | Latitude       | Longitude       | DLS<br>[°/100ft] | Comments    |
|------------|--------------------|----------------|-------------|-------------------|---------------|--------------|----------------------|-----------------------|----------------|-----------------|------------------|-------------|
| 15583.00   | 90.700             | 268.600        | 9239.30     | 6427.93           | -48.71        | -6427.75     | 648299.79            | 587773.23             | 32°36'53.889"N | 103°51'06.116"W | 0.00             | Proj to Bit |

## 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.250H PBHL |            | 9267.00     | -38.00        | -6427.26     | 648300.29            | 587783.94             | 32°36'53.995"N | 103°51'06.110"W | point |

## WELLPATH COMPOSITION - Ref Wellbore: No.250H AWB Ref Wellpath: No.250H AWP

| Start MD<br>[ft] | End MD<br>[ft] | Positional Uncertainty Model           | Log Name/Comment              | Wellbore    |
|------------------|----------------|----------------------------------------|-------------------------------|-------------|
| 0.00             | 8650.00        | Generic gyro - northseeking (Standard) | Gyro <100-8650>               | No.250H AWB |
| 8650.00          | 15508.00       | NaviTrak (Standard)                    | BHI MWD NaviTraK <8708-15508> | No.250H AWB |
| 15508.00         | 15583.00       | Blind Drilling (std)                   | Projection to bit             | No.250H AWB |

Company: BOPCO, L.P.

Well: Big Eddy Unit #250H

Field: WC Williams Sink (Bone Spring)

County: Eddy State: New Mexico

|                                                                                                                                                |                             |                     |           |                                            |
|------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|---------------------|-----------|--------------------------------------------|
| Eddy<br>County: WC Williams Sink (Bone Spring)<br>Field: 1980' FSL & 10' FEL<br>Location: Big Eddy Unit #250H<br>Well: BOPCO, L.P.<br>Company: | Caliper Log                 |                     |           |                                            |
|                                                                                                                                                | Future Casing Diameter = 7" |                     |           |                                            |
|                                                                                                                                                | Location:                   | 1980' FSL & 10' FEL | Elev.     | K.B. 3484.00 ft<br>G.L. 3504.60 ft<br>D.F. |
|                                                                                                                                                | Permanent Datum:            | Ground Level        | Elev.:    | 3484.00 f                                  |
|                                                                                                                                                | Log Measured From:          | Drill Floor         | 20.60 ft  | above Perm.Datum                           |
|                                                                                                                                                | Drilling Measured From:     | Drill Floor         |           |                                            |
|                                                                                                                                                | API Serial No.              | Section:            | Township: | Range:                                     |
|                                                                                                                                                | 30-015-40498                | 35                  | 19S       | 31E                                        |

|                             |                  |                      |                  |
|-----------------------------|------------------|----------------------|------------------|
| Logging Date                | 25-Sep-2013      |                      |                  |
| Run Number                  | Two              |                      |                  |
| Depth Driller               | 9087.00 ft       |                      |                  |
| Schlumberger Depth          | 9087.00 ft       |                      |                  |
| Bottom Log Interval         | 9087.00 ft       |                      |                  |
| Top Log Interval            | 4347.00 ft       |                      |                  |
| Casing Driller Size @ Depth | 9.625 in         | @                    | 4347.00 ft       |
| Casing Schlumberger         | 4347 ft          |                      |                  |
| Bit Size                    | 8.75 in          |                      |                  |
| Type Fluid In Hole          | Fresh Water      |                      |                  |
| MUD                         | Density          | Viscosity            | 8.5 lbm/gal 28 s |
|                             | Fluid Loss       | PH                   | 10               |
|                             | Source of Sample | Active Tank          |                  |
| RM @ Meas Temp              | 0.58 ohm.m       | @                    | 86.3 degF        |
| RMF @ Meas Temp             | 0.44 ohm.m       | @                    | 86.3 degF        |
| RMC @ Meas Temp             | 0.73 ohm.m       | @                    | 86.3 degF        |
| Source RMF                  | RMC              | Calculated           | Calculated       |
| RM @ BHT                    | RMF @ BHT        | 0.4 @ 129.45         | 0.3 @ 129.45     |
| Max Recorded Temperatures   | 129.45 degF      |                      |                  |
| Circulation Stopped         | Time             | 24-Sep-2013 19:15:00 |                  |
| Logger on Bottom            | Time             | 25-Sep-2013 14:15:00 |                  |
| Unit Number                 | Location:        | 2323                 | Roswell, NM      |
| Recorded By                 | Joanna Haag      |                      |                  |
| Witnessed By                | Larry Ludwick    |                      |                  |

THE USE OF AND RELIANCE UPON THIS RECORDED DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE AND RELIANCE UPON THE RECORDED DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED DATA.

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