



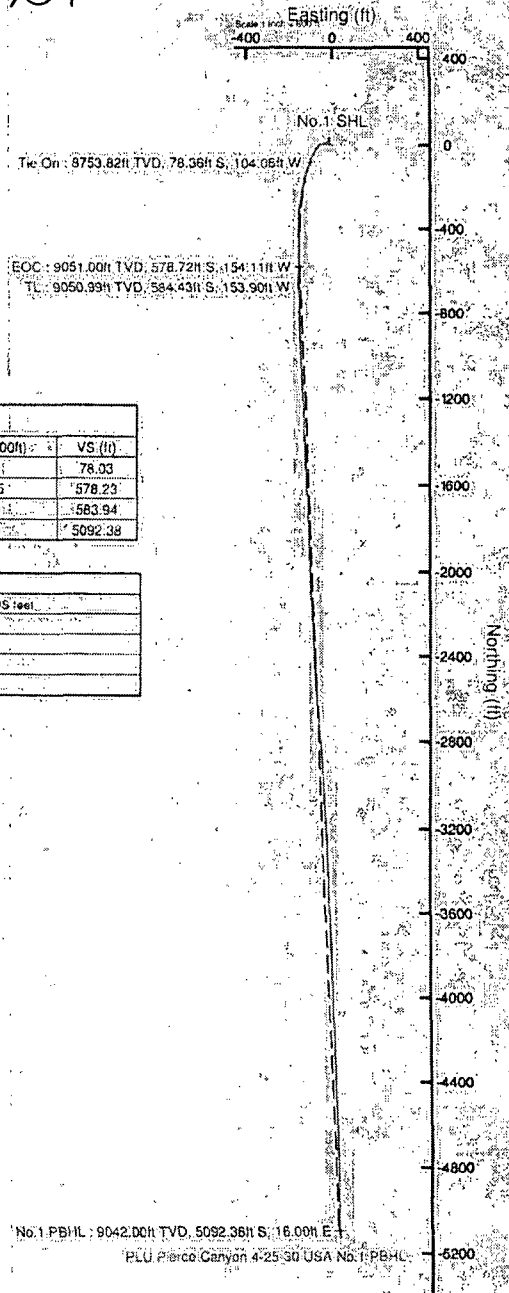
# BOPCO, L.P.

Location: Eddy County, NM  
Field: Poker Lake Unit  
Facility: Poker Lake Pierce Canyon 4-25-30 USA No.1  
Slot: No.1-SHL  
Well: No.1  
Wellbore: No.1-PWB



300154/137

RECEIVED  
OCT 16 2013  
NMOCD ARTESIA

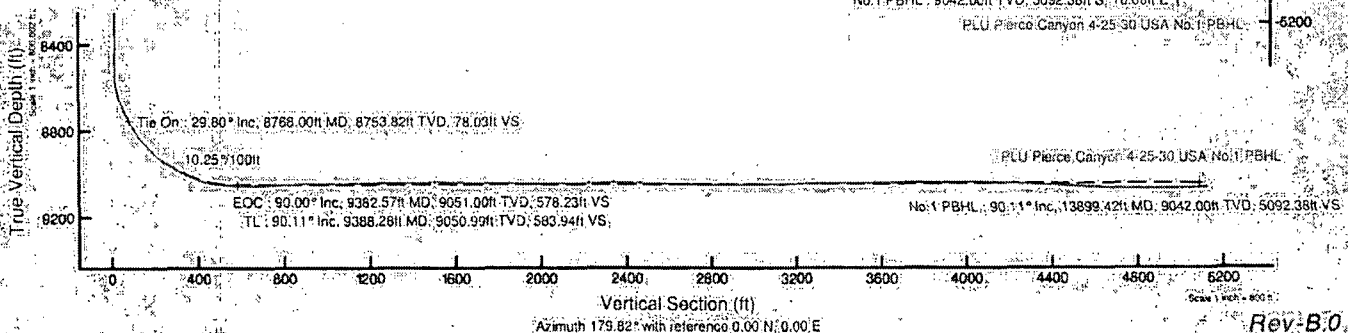


| Well Profile Data |          |         |          |          |              |              |         |
|-------------------|----------|---------|----------|----------|--------------|--------------|---------|
| Design Comment    | MD (ft)  | Inc (°) | Az (°)   | TVD (ft) | Local N (ft) | Local E (ft) | VS (ft) |
| Tie On            | 8768.00  | 29.80   | 1201.700 | 8753.82  | 78.36        | 104.08       | 78.03   |
| EOC               | 9382.57  | 90.00   | 177.842  | 9051.00  | 578.72       | 154.11       | 578.23  |
| TL                | 9388.28  | 90.114  | 177.842  | 9050.99  | 584.43       | 153.90       | 583.94  |
| No.1-PBHL         | 13899.42 | 90.114  | 177.842  | 9042.00  | 5092.36      | 16.00        | 5092.38 |

|                                                             |                                                                     |
|-------------------------------------------------------------|---------------------------------------------------------------------|
| Plot reference wellpath is Rev-B.0                          |                                                                     |
| True vertical depths are referenced to Rig on No.1-SHL (KB) | Grid System: NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet |
| Measured depths are referenced to Rig on No.1-SHL (KB)      | North Reference: Grid north                                         |
| Rig on No.1-SHL (KB) to Mean Sea Level: 3320 feet           | Scale: True distance                                                |
| Mean Sea Level to Mud line (At Slot: No.1-SHL): 3300 feet   | Depths are in feet                                                  |
| Coordinates are in feet referenced to Slot                  | Created by: genibry on 08/13/2013                                   |



BGGM (1945.0 to 2015.0) Dip: 60.02° Field: 48345.7 nT  
Magnetic North is 7.58 degrees East of True North (at 08/03/2013)  
Grid North is 0.24 degrees East of True North  
To correct azimuth from True to Grid subtract 0.24 degrees  
To correct azimuth from Magnetic to Grid add 7.35 degrees  
For example, if the Magnetic North Azimuth = 90 degrees, then the Grid North Azimuth = 90° + 7.35° = 97.35°





# Actual Wellpath Report

No.1 AWB

Page 1 of 5



## REFERENCE WELLPATH IDENTIFICATION

|          |                                           |          |          |
|----------|-------------------------------------------|----------|----------|
| Operator | BOPCO, L.P.                               | Slot     | No.1 SHL |
| Area     | Eddy County, NM                           | Well     | No.1     |
| Field    | Poker Lake Unit                           | Wellbore | No.1 AWB |
| Facility | Poker Lake Pierce Canyon 4-25-30 USA No.1 |          |          |

## REPORT SETUP INFORMATION

|                     |                                                        |                      |                          |
|---------------------|--------------------------------------------------------|----------------------|--------------------------|
| Projection System   | NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet | Software System      | WellArchitect® 3.0.0     |
| North Reference     | Grid                                                   | User                 | Gentbry                  |
| Scale               | 0.999932                                               | Report Generated     | 06/27/2013 at 8:11:21 AM |
| Convergence at slot | 0.24° East                                             | Database/Source file | WA Midland/No.1 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     | 640556.00        | 424573.00       | 32°09'59.230"N         | 103°52'44.755"W |
| Facility Reference Pt |                   |          | 640556.00        | 424573.00       | 32°09'59.230"N         | 103°52'44.755"W |
| Field Reference Pt    |                   |          | 630272.49        | 405347.85       | 32°06'49.387"N         | 103°54'45.266"W |

## WELLPATH DATUM

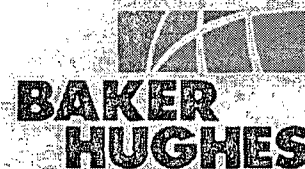
|                          |                      |                                                     |                   |
|--------------------------|----------------------|-----------------------------------------------------|-------------------|
| Calculation method       | Minimum curvature    | Rig on No.1 SHL (KB) to Facility Vertical Datum     | 20.00ft           |
| Horizontal Reference Pt  | Slot                 | Rig on No.1 SHL (KB) to Mean Sea Level              | 3320.00ft         |
| Vertical Reference Pt    | Rig on No.1 SHL (KB) | Rig on No.1 SHL (KB) to Mud Line at Slot (No.1 SHL) | 20.00ft           |
| MD Reference Pt          | Rig on No.1 SHL (KB) | Section Origin                                      | N 0.00, E 0.00 ft |
| Field Vertical Reference | Mean Sea Level       | Section Azimuth                                     | 179.82°           |



# Actual Wellpath Report

No.1 AWB

Page 2 of 5



## REFERENCE WELLPATH IDENTIFICATION

|          |                                           |          |          |
|----------|-------------------------------------------|----------|----------|
| Operator | BOPCO, L.P.                               | Slot     | No.1 SHL |
| Area     | Eddy County, NM                           | Well     | No.1     |
| Field    | Poker Lake Unit                           | Wellbore | No.1 AWB |
| Facility | Poker Lake Pierce Canyon 4-25-30 USA No.1 |          |          |

## WELLPATH DATA (142 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              | 274.120        | 0.00        | 0.00              | 0.00          | 0.00         | 640556.00            | 424573.00             | 32°09'59.230"N | 103°52'44.755"W | 0.00             |          |
| 100.00     | 0.390              | 274.120        | 100.00      | -0.03             | 0.02          | -0.34        | 640555.66            | 424573.02             | 32°09'59.230"N | 103°52'44.759"W | 0.39             |          |
| 200.00     | 0.400              | 255.740        | 200.00      | 0.03              | -0.04         | -1.02        | 640554.98            | 424572.96             | 32°09'59.229"N | 103°52'44.767"W | 0.13             |          |
| 300.00     | 0.340              | 271.170        | 299.99      | 0.11              | -0.12         | -1.65        | 640554.35            | 424572.88             | 32°09'59.229"N | 103°52'44.774"W | 0.12             |          |
| 400.00     | 0.320              | 251.870        | 399.99      | 0.19              | -0.20         | -2.21        | 640553.79            | 424572.80             | 32°09'59.228"N | 103°52'44.781"W | 0.11             |          |
| 500.00     | 0.300              | 282.390        | 499.99      | 0.22              | -0.23         | -2.74        | 640553.26            | 424572.77             | 32°09'59.228"N | 103°52'44.787"W | 0.16             |          |
| 600.00     | 0.340              | 267.060        | 599.99      | 0.18              | -0.19         | -3.29        | 640552.71            | 424572.81             | 32°09'59.228"N | 103°52'44.794"W | 0.09             |          |
| 700.00     | 0.120              | 256.580        | 699.99      | 0.22              | -0.23         | -3.69        | 640552.31            | 424572.77             | 32°09'59.228"N | 103°52'44.798"W | 0.22             |          |
| 800.00     | 0.220              | 235.240        | 799.99      | 0.35              | -0.36         | -3.95        | 640552.06            | 424572.64             | 32°09'59.226"N | 103°52'44.801"W | 0.12             |          |
| 900.00     | 1.300              | 308.750        | 899.98      | 0.26              | 0.24          | -4.99        | 640551.01            | 424573.24             | 32°09'59.232"N | 103°52'44.813"W | 1.26             |          |
| 1000.00    | 1.530              | 306.040        | 999.95      | -1.76             | 1.74          | -6.95        | 640549.05            | 424574.74             | 32°09'59.247"N | 103°52'44.836"W | 0.24             |          |
| 1100.00    | 1.460              | 302.870        | 1099.92     | -3.24             | 3.21          | -9.10        | 640546.90            | 424576.21             | 32°09'59.262"N | 103°52'44.861"W | 0.11             |          |
| 1200.00    | 1.500              | 307.110        | 1199.88     | -4.73             | 4.69          | -11.21       | 640544.79            | 424577.69             | 32°09'59.277"N | 103°52'44.886"W | 0.12             |          |
| 1300.00    | 1.240              | 287.710        | 1299.85     | -5.85             | 5.81          | -13.29       | 640542.71            | 424578.81             | 32°09'59.288"N | 103°52'44.910"W | 0.53             |          |
| 1400.00    | 0.920              | 277.600        | 1399.84     | -6.29             | 6.25          | -15.12       | 640540.89            | 424579.25             | 32°09'59.292"N | 103°52'44.931"W | 0.37             |          |
| 1500.00    | 0.920              | 281.930        | 1499.82     | -6.57             | 6.52          | -16.70       | 640539.30            | 424579.52             | 32°09'59.295"N | 103°52'44.949"W | 0.07             |          |
| 1600.00    | 0.750              | 302.280        | 1599.81     | -7.09             | 7.03          | -18.04       | 640537.97            | 424580.03             | 32°09'59.300"N | 103°52'44.965"W | 0.34             |          |
| 1700.00    | 0.630              | 333.660        | 1699.81     | -7.94             | 7.88          | -18.83       | 640537.17            | 424580.88             | 32°09'59.308"N | 103°52'44.974"W | 0.39             |          |
| 1800.00    | 1.130              | 357.050        | 1799.79     | -9.41             | 9.35          | -19.13       | 640536.87            | 424582.35             | 32°09'59.323"N | 103°52'44.977"W | 0.61             |          |
| 1900.00    | 1.990              | 8.660          | 1899.76     | -12.12            | 12.06         | -18.92       | 640537.08            | 424585.06             | 32°09'59.350"N | 103°52'44.975"W | 0.91             |          |
| 2000.00    | 2.410              | 15.800         | 1999.68     | -15.85            | 15.80         | -18.08       | 640537.92            | 424588.79             | 32°09'59.387"N | 103°52'44.965"W | 0.50             |          |
| 2100.00    | 2.600              | 18.430         | 2099.59     | -20.02            | 19.97         | -16.79       | 640539.21            | 424592.97             | 32°09'59.428"N | 103°52'44.950"W | 0.22             |          |
| 2200.00    | 2.620              | 19.640         | 2199.48     | -24.32            | 24.27         | -15.31       | 640540.69            | 424597.27             | 32°09'59.470"N | 103°52'44.932"W | 0.06             |          |
| 2300.00    | 2.330              | 10.770         | 2299.39     | -28.47            | 28.42         | -14.16       | 640541.84            | 424601.42             | 32°09'59.512"N | 103°52'44.919"W | 0.48             |          |
| 2400.00    | 1.830              | 1.130          | 2399.32     | -32.06            | 32.02         | -13.75       | 640542.25            | 424605.02             | 32°09'59.547"N | 103°52'44.914"W | 0.61             |          |
| 2500.00    | 1.160              | 326.360        | 2499.29     | -34.50            | 34.46         | -14.28       | 640541.72            | 424607.45             | 32°09'59.571"N | 103°52'44.920"W | 1.10             |          |
| 2600.00    | 0.670              | 288.210        | 2599.28     | -35.53            | 35.48         | -15.39       | 640540.61            | 424608.48             | 32°09'59.581"N | 103°52'44.933"W | 0.76             |          |
| 2700.00    | 0.680              | 274.460        | 2699.27     | -35.76            | 35.71         | -16.54       | 640539.46            | 424608.71             | 32°09'59.584"N | 103°52'44.946"W | 0.16             |          |
| 2800.00    | 0.700              | 250.400        | 2799.27     | -35.61            | 35.55         | -17.71       | 640538.29            | 424608.55             | 32°09'59.582"N | 103°52'44.960"W | 0.29             |          |
| 2900.00    | 0.870              | 196.340        | 2899.26     | -34.68            | 34.62         | -18.50       | 640537.50            | 424607.62             | 32°09'59.573"N | 103°52'44.969"W | 0.73             |          |
| 3000.00    | 0.730              | 199.700        | 2999.25     | -33.35            | 33.29         | -18.93       | 640537.08            | 424606.29             | 32°09'59.560"N | 103°52'44.974"W | 0.15             |          |
| 3100.00    | 1.190              | 196.260        | 3099.23     | -31.75            | 31.69         | -19.43       | 640536.57            | 424604.69             | 32°09'59.544"N | 103°52'44.980"W | 0.46             |          |
| 3200.00    | 1.300              | 192.090        | 3199.21     | -29.65            | 29.59         | -19.96       | 640536.04            | 424602.59             | 32°09'59.523"N | 103°52'44.986"W | 0.14             |          |
| 3300.00    | 1.540              | 193.130        | 3299.18     | -27.23            | 27.17         | -20.50       | 640535.50            | 424600.17             | 32°09'59.499"N | 103°52'44.992"W | 0.24             |          |
| 3400.00    | 1.760              | 193.200        | 3399.14     | -24.43            | 24.37         | -21.16       | 640534.84            | 424597.36             | 32°09'59.472"N | 103°52'45.000"W | 0.22             |          |
| 3500.00    | 1.670              | 191.430        | 3499.09     | -21.51            | 21.44         | -21.80       | 640534.20            | 424594.44             | 32°09'59.443"N | 103°52'45.008"W | 0.10             |          |
| 3600.00    | 1.870              | 189.480        | 3599.04     | -18.48            | 18.41         | -22.36       | 640533.65            | 424591.40             | 32°09'59.413"N | 103°52'45.014"W | 0.21             |          |
| 3700.00    | 1.520              | 192.690        | 3699.00     | -15.57            | 15.50         | -22.92       | 640533.09            | 424588.50             | 32°09'59.384"N | 103°52'45.021"W | 0.36             |          |
| 3759.00    | 0.890              | 206.940        | 3757.99     | -14.40            | 14.33         | -23.30       | 640532.71            | 424587.33             | 32°09'59.372"N | 103°52'45.026"W | 1.17             |          |
| 3847.00    | 1.200              | 222.400        | 3845.97     | -13.12            | 13.04         | -24.23       | 640531.78            | 424586.04             | 32°09'59.360"N | 103°52'45.036"W | 0.47             |          |
| 4033.00    | 0.700              | 230.800        | 4031.95     | -10.97            | 10.88         | -26.42       | 640529.58            | 424583.88             | 32°09'59.338"N | 103°52'45.062"W | 10.28            |          |
| 4223.00    | 0.800              | 229.600        | 4221.93     | -9.38             | 9.29          | -28.33       | 640527.67            | 424582.29             | 32°09'59.323"N | 103°52'45.084"W | 0.05             |          |
| 4413.00    | 0.700              | 250.100        | 4411.91     | -8.13             | 8.04          | -30.43       | 640525.57            | 424581.04             | 32°09'59.310"N | 103°52'45.109"W | 0.15             |          |
| 4603.00    | 0.600              | 261.200        | 4601.90     | -7.59             | 7.49          | -32.51       | 640523.50            | 424580.49             | 32°09'59.305"N | 103°52'45.133"W | 0.08             |          |
| 4794.00    | 0.700              | 266.200        | 4792.89     | -7.37             | 7.26          | -34.66       | 640521.34            | 424580.26             | 32°09'59.303"N | 103°52'45.158"W | 0.06             |          |



# Actual Wellpath Report

No.1 AWB  
Page 3 of 5



## REFERENCE WELLPATH IDENTIFICATION

|          |                                           |          |          |
|----------|-------------------------------------------|----------|----------|
| Operator | BOPCO, L.P.                               | Slot     | No.1 SHL |
| Area     | Eddy County, NM                           | Well     | No.1     |
| Field    | Poker Lake Unit                           | Wellbore | No.1 AWB |
| Facility | Poker Lake Pierce Canyon 4-25-30 USA No.1 |          |          |

## WELLPATH DATA (142 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 |
|------------|--------------------|----------------|-------------|-------------------|---------------|--------------|----------------------|-----------------------|----------------|-----------------|------------------|----------|
| 4984.00    | 0.700              | 274.700        | 4982.88     | -7.39             | -7.28         | -36.97       | 640519.03            | 424580.28             | 32°09'59.303"N | 103°52'45.185"W | 0.05             |          |
| 5173.00    | 0.900              | 265.100        | 5171.86     | -7.37             | -7.24         | -39.60       | 640516.40            | 424580.24             | 32°09'59.303"N | 103°52'45.216"W | 0.13             |          |
| 5363.00    | 1.100              | 271.300        | 5361.83     | -7.29             | -7.16         | -42.91       | 640513.09            | 424580.16             | 32°09'59.302"N | 103°52'45.254"W | 0.12             |          |
| 5553.00    | 1.100              | 267.300        | 5551.79     | -7.26             | -7.11         | -46.56       | 640509.45            | 424580.11             | 32°09'59.302"N | 103°52'45.297"W | 0.04             |          |
| 5743.00    | 1.200              | 255.500        | 5741.76     | -6.69             | -6.53         | -50.31       | 640505.70            | 424579.53             | 32°09'59.296"N | 103°52'45.340"W | 0.13             |          |
| 5933.00    | 1.200              | 255.900        | 5931.71     | -5.72             | -5.55         | -54.16       | 640501.84            | 424578.55             | 32°09'59.287"N | 103°52'45.385"W | 0.00             |          |
| 6123.00    | 1.600              | 260.400        | 6121.66     | -4.80             | -4.62         | -58.71       | 640497.30            | 424577.62             | 32°09'59.278"N | 103°52'45.438"W | 0.22             |          |
| 6312.00    | 0.400              | 276.400        | 6310.62     | -4.45             | -4.25         | -61.96       | 640494.04            | 424577.25             | 32°09'59.274"N | 103°52'45.476"W | 0.65             |          |
| 6502.00    | 0.500              | 248.700        | 6500.62     | -4.23             | -4.03         | -63.39       | 640492.61            | 424577.03             | 32°09'59.272"N | 103°52'45.493"W | 0.12             |          |
| 6691.00    | 0.700              | 200.100        | 6689.61     | -2.85             | -2.64         | -64.56       | 640491.44            | 424575.64             | 32°09'59.258"N | 103°52'45.506"W | 0.28             |          |
| 6881.00    | 0.700              | 194.400        | 6879.60     | -0.63             | -0.43         | -65.25       | 640490.76            | 424573.43             | 32°09'59.237"N | 103°52'45.514"W | 0.04             |          |
| 7071.00    | 0.600              | 175.200        | 7069.58     | -1.48             | -1.69         | -65.45       | 640490.55            | 424571.31             | 32°09'59.216"N | 103°52'45.517"W | 0.13             |          |
| 7261.00    | 0.600              | 179.700        | 7259.57     | -3.47             | -3.67         | -65.36       | 640490.64            | 424569.33             | 32°09'59.196"N | 103°52'45.516"W | 0.02             |          |
| 7452.00    | 1.000              | 201.600        | 7450.55     | -6.02             | -6.22         | -65.97       | 640490.03            | 424566.78             | 32°09'59.171"N | 103°52'45.523"W | 0.26             |          |
| 7642.00    | 1.100              | 196.400        | 7640.52     | -9.30             | -9.51         | -67.10       | 640488.91            | 424563.49             | 32°09'59.138"N | 103°52'45.536"W | 0.07             |          |
| 7832.00    | 1.200              | 208.400        | 7830.48     | -12.80            | -13.01        | -68.56       | 640487.45            | 424559.99             | 32°09'59.104"N | 103°52'45.553"W | 0.14             |          |
| 8022.00    | 0.700              | 236.100        | 8020.46     | -15.19            | -15.41        | -70.47       | 640485.54            | 424557.59             | 32°09'59.080"N | 103°52'45.576"W | 0.35             |          |
| 8212.00    | 0.200              | 307.700        | 8210.45     | -15.63            | -15.86        | -71.69       | 640484.31            | 424557.15             | 32°09'59.076"N | 103°52'45.590"W | 0.35             |          |
| 8402.00    | 0.900              | 291.700        | 8400.44     | -14.87            | -15.10        | -73.34       | 640482.66            | 424557.90             | 32°09'59.083"N | 103°52'45.609"W | 0.37             |          |
| 8471.00    | 1.300              | 270.800        | 8469.43     | -14.65            | -14.89        | -74.63       | 640481.38            | 424555.11             | 32°09'59.085"N | 103°52'45.624"W | 0.81             |          |
| 8515.00    | 2.200              | 244.700        | 8513.41     | -15.00            | -15.24        | -75.89       | 640480.11            | 424557.76             | 32°09'59.082"N | 103°52'45.639"W | 2.68             |          |
| 8546.00    | 5.200              | 247.800        | 8544.34     | -15.78            | -16.03        | -77.73       | 640478.27            | 424556.97             | 32°09'59.074"N | 103°52'45.660"W | 9.70             |          |
| 8578.00    | 9.000              | 197.700        | 8576.12     | -18.71            | -18.96        | -79.84       | 640476.17            | 424554.04             | 32°09'59.045"N | 103°52'45.685"W | 21.62            |          |
| 8609.00    | 12.500             | 204.100        | 8606.57     | -24.08            | -24.34        | -81.94       | 640474.06            | 424548.66             | 32°09'58.992"N | 103°52'45.710"W | 11.91            |          |
| 8641.00    | 16.500             | 203.300        | 8637.55     | -31.41            | -31.68        | -85.16       | 640470.85            | 424541.33             | 32°09'58.920"N | 103°52'45.747"W | 12.52            |          |
| 8673.00    | 20.200             | 202.500        | 8667.91     | -40.68            | -40.96        | -89.07       | 640466.94            | 424532.05             | 32°09'58.828"N | 103°52'45.793"W | 11.59            |          |
| 8705.00    | 23.700             | 202.100        | 8697.59     | -51.73            | -52.02        | -93.61       | 640462.40            | 424520.98             | 32°09'58.719"N | 103°52'45.847"W | 10.95            |          |
| 8736.00    | 26.700             | 201.500        | 8725.63     | -63.97            | -64.28        | -98.50       | 640457.50            | 424508.73             | 32°09'58.598"N | 103°52'45.904"W | 9.71             |          |
| 8768.00    | 29.800             | 201.700        | 8753.82     | -78.03            | -78.36        | -104.08      | 640451.93            | 424494.65             | 32°09'58.459"N | 103°52'45.970"W | 9.69             |          |
| 8800.00    | 32.700             | 202.800        | 8781.17     | -93.37            | -93.72        | -110.37      | 640445.64            | 424479.29             | 32°09'58.307"N | 103°52'46.044"W | 9.24             |          |
| 8831.00    | 35.700             | 200.600        | 8806.81     | -109.54           | -109.91       | -116.80      | 640439.21            | 424463.10             | 32°09'58.147"N | 103°52'46.119"W | 10.47            |          |
| 8863.00    | 38.300             | 195.300        | 8832.37     | -127.84           | -128.22       | -122.70      | 640433.30            | 424444.79             | 32°09'57.966"N | 103°52'46.189"W | 12.85            |          |
| 8895.00    | 41.700             | 193.900        | 8856.88     | -147.72           | -148.13       | -127.88      | 640428.13            | 424424.88             | 32°09'57.769"N | 103°52'46.250"W | 10.99            |          |
| 8929.00    | 44.800             | 192.600        | 8881.65     | -170.38           | -170.80       | -133.21      | 640422.80            | 424402.21             | 32°09'57.545"N | 103°52'46.313"W | 9.49             |          |
| 8958.00    | 47.200             | 191.300        | 8901.79     | -190.77           | -191.21       | -137.52      | 640418.48            | 424381.87             | 32°09'57.343"N | 103°52'46.364"W | 8.88             |          |
| 8990.00    | 50.300             | 190.600        | 8922.89     | -214.38           | -214.83       | -142.09      | 640413.92            | 424358.19             | 32°09'57.110"N | 103°52'46.419"W | 9.83             |          |
| 9021.00    | 53.700             | 189.400        | 8941.97     | -238.42           | -238.88       | -146.33      | 640409.68            | 424334.14             | 32°09'56.872"N | 103°52'46.469"W | 11.38            |          |
| 9053.00    | 56.500             | 188.600        | 8960.28     | -264.32           | -264.80       | -150.43      | 640405.58            | 424308.22             | 32°09'56.616"N | 103°52'46.518"W | 8.99             |          |
| 9085.00    | 58.400             | 186.000        | 8977.49     | -291.06           | -291.55       | -153.85      | 640402.16            | 424281.47             | 32°09'56.351"N | 103°52'46.559"W | 9.06             |          |
| 9117.00    | 62.200             | 185.300        | 8993.35     | -318.71           | -319.21       | -156.58      | 640399.43            | 424253.82             | 32°09'56.077"N | 103°52'46.592"W | 12.03            |          |
| 9148.00    | 65.800             | 182.700        | 9006.94     | -346.49           | -346.99       | -158.51      | 640397.50            | 424226.03             | 32°09'55.803"N | 103°52'46.616"W | 13.84            |          |
| 9180.00    | 68.400             | 179.900        | 9019.39     | -375.96           | -376.46       | -159.18      | 640396.83            | 424196.57             | 32°09'55.511"N | 103°52'46.625"W | 11.44            |          |
| 9212.00    | 72.000             | 177.700        | 9030.23     | -406.05           | -406.55       | -158.54      | 640397.47            | 424166.48             | 32°09'55.213"N | 103°52'46.620"W | 12.98            |          |
| 9244.00    | 76.100             | 178.900        | 9039.02     | -436.80           | -437.30       | -157.63      | 640398.38            | 424135.73             | 32°09'54.909"N | 103°52'46.610"W | 13.31            |          |
| 9275.00    | 80.400             | 179.800        | 9045.33     | -467.14           | -467.64       | -157.29      | 640398.72            | 424105.39             | 32°09'54.609"N | 103°52'46.608"W | 14.16            |          |



# Actual Wellpath Report

No.1 AWB

Page 4 of 5



## REFERENCE WELLPATH IDENTIFICATION

|           |                                           |           |           |
|-----------|-------------------------------------------|-----------|-----------|
| Operator: | BOPCO, L.P.                               | Slot:     | No.1 SHEL |
| Area:     | Eddy County, NM                           | Well:     | No.1      |
| Field:    | Poker Lake Unit                           | Wellbore: | No.1 AWB  |
| Facility: | Poker Lake Pierce Canyon 4-25-30 USA No.1 |           |           |

## WELLPATH DATA (142 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 |
|------------|--------------------|----------------|-------------|-------------------|---------------|--------------|----------------------|-----------------------|----------------|-----------------|------------------|----------|
| 9307.00    | 84.800             | 180.300        | 9049.45     | 498.87            | -499.37       | -157.32      | 640398.69            | 424073.67             | 32°09'54.295"N | 103°52'46.610"W | 13.84            |          |
| 9339.00    | 86.700             | 179.700        | 9051.82     | 530.78            | -531.28       | -157.32      | 640398.69            | 424041.76             | 32°09'53.979"N | 103°52'46.611"W | 6.22             |          |
| 9372.00    | 86.100             | 180.500        | 9053.90     | 563.71            | -564.21       | -157.37      | 640398.64            | 424008.83             | 32°09'53.653"N | 103°52'46.614"W | 3.03             |          |
| 9467.00    | 91.300             | 180.000        | 9056.05     | 658.65            | -659.15       | -157.79      | 640398.22            | 423913.89             | 32°09'52.714"N | 103°52'46.623"W | 5.50             |          |
| 9562.00    | 92.800             | 179.700        | 9052.65     | 753.59            | -754.09       | -157.54      | 640398.47            | 423818.96             | 32°09'51.774"N | 103°52'46.625"W | 1.61             |          |
| 9656.00    | 92.400             | 178.400        | 9048.39     | 847.48            | -847.98       | -155.98      | 640400.03            | 423725.08             | 32°09'50.845"N | 103°52'46.611"W | -1.45            |          |
| 9750.00    | 90.300             | 178.000        | 9046.17     | 941.41            | -941.90       | -153.03      | 640402.98            | 423631.17             | 32°09'49.916"N | 103°52'46.582"W | 2.27             |          |
| 9845.00    | 90.600             | 177.700        | 9045.43     | 1036.35           | -1036.83      | -149.47      | 640406.54            | 423536.24             | 32°09'48.976"N | 103°52'46.545"W | 0.45             |          |
| 9940.00    | 91.500             | 177.600        | 9043.69     | 1131.27           | -1131.73      | -145.57      | 640410.44            | 423441.35             | 32°09'48.037"N | 103°52'46.504"W | 0.95             |          |
| 10035.00   | 90.000             | 177.600        | 9042.44     | 1226.19           | -1226.64      | -141.59      | 640414.42            | 423346.45             | 32°09'47.097"N | 103°52'46.463"W | 1.58             |          |
| 10130.00   | 91.000             | 177.600        | 9041.61     | 1321.11           | -1321.55      | -137.62      | 640418.39            | 423251.54             | 32°09'46.158"N | 103°52'46.421"W | -1.05            |          |
| 10225.00   | 92.000             | 177.300        | 9039.13     | 1416.00           | -1416.42      | -133.39      | 640422.62            | 423156.68             | 32°09'45.219"N | 103°52'46.376"W | -1.10            |          |
| 10320.00   | 89.900             | 177.300        | 9037.55     | 1510.88           | -1511.30      | -128.92      | 640427.09            | 423061.81             | 32°09'44.280"N | 103°52'46.329"W | 2.21             |          |
| 10415.00   | 88.800             | 177.400        | 9038.63     | 1605.79           | -1606.19      | -124.52      | 640431.48            | 422966.92             | 32°09'43.341"N | 103°52'46.283"W | 1.16             |          |
| 10510.00   | 88.700             | 177.700        | 9040.70     | 1700.69           | -1701.08      | -120.46      | 640435.54            | 422872.04             | 32°09'42.402"N | 103°52'46.240"W | 0.33             |          |
| 10605.00   | 88.900             | 177.600        | 9042.69     | 1795.60           | -1795.98      | -116.57      | 640439.44            | 422777.15             | 32°09'41.462"N | 103°52'46.199"W | 0.24             |          |
| 10700.00   | 89.400             | 177.700        | 9044.10     | 1890.52           | -1890.89      | -112.68      | 640443.33            | 422682.25             | 32°09'40.523"N | 103°52'46.159"W | 0.54             |          |
| 10795.00   | 90.100             | 177.700        | 9044.51     | 1985.46           | -1985.81      | -108.86      | 640447.14            | 422587.33             | 32°09'39.584"N | 103°52'46.119"W | 0.74             |          |
| 10890.00   | 90.700             | 177.500        | 9043.85     | 2080.38           | -2080.72      | -104.88      | 640451.12            | 422492.42             | 32°09'38.644"N | 103°52'46.077"W | 0.67             |          |
| 10985.00   | 91.100             | 177.400        | 9042.36     | 2175.29           | -2175.62      | -100.66      | 640455.35            | 422397.54             | 32°09'37.705"N | 103°52'46.033"W | 0.43             |          |
| 11080.00   | 91.800             | 177.100        | 9039.96     | 2270.16           | -2270.48      | -96.10       | 640459.90            | 422302.68             | 32°09'36.766"N | 103°52'45.985"W | 0.80             |          |
| 11175.00   | 90.000             | 176.800        | 9038.46     | 2365.03           | -2365.33      | -91.05       | 640464.96            | 422207.84             | 32°09'35.827"N | 103°52'45.930"W | 1.92             |          |
| 11270.00   | 88.000             | 176.400        | 9040.12     | 2459.86           | -2460.14      | -85.42       | 640470.59            | 422113.03             | 32°09'34.889"N | 103°52'45.870"W | 2.15             |          |
| 11365.00   | 87.700             | 176.400        | 9043.69     | 2554.62           | -2554.89      | -79.45       | 640476.55            | 422018.29             | 32°09'33.951"N | 103°52'45.805"W | 0.32             |          |
| 11459.00   | 88.500             | 176.100        | 9046.80     | 2648.39           | -2648.63      | -73.31       | 640482.70            | 421924.55             | 32°09'33.023"N | 103°52'45.738"W | 0.91             |          |
| 11554.00   | 89.600             | 175.500        | 9048.38     | 2743.14           | -2743.36      | -66.35       | 640489.65            | 421829.83             | 32°09'32.086"N | 103°52'45.662"W | 1.32             |          |
| 11649.00   | 90.000             | 175.200        | 9048.71     | 2837.85           | -2838.05      | -58.65       | 640497.35            | 421735.15             | 32°09'31.148"N | 103°52'45.577"W | 0.53             |          |
| 11744.00   | 89.900             | 176.900        | 9048.79     | 2932.64           | -2932.82      | -52.11       | 640503.90            | 421640.39             | 32°09'30.210"N | 103°52'45.505"W | -1.79            |          |
| 11840.00   | 90.700             | 176.500        | 9048.29     | 3028.50           | -3028.66      | -46.58       | 640509.42            | 421544.56             | 32°09'29.262"N | 103°52'45.446"W | 0.93             |          |
| 11935.00   | 91.100             | 175.900        | 9046.80     | 3123.29           | -3123.44      | -40.29       | 640515.72            | 421449.78             | 32°09'28.323"N | 103°52'45.377"W | 0.76             |          |
| 12030.00   | 90.800             | 177.100        | 9045.22     | 3218.12           | -3218.24      | -34.49       | 640521.51            | 421354.98             | 32°09'27.385"N | 103°52'45.314"W | 1.30             |          |
| 12125.00   | 91.500             | 176.900        | 9043.31     | 3312.99           | -3313.09      | -29.52       | 640526.48            | 421260.14             | 32°09'26.446"N | 103°52'45.261"W | 0.77             |          |
| 12220.00   | 89.900             | 178.100        | 9042.15     | 3407.90           | -3407.99      | -25.37       | 640530.63            | 421165.25             | 32°09'25.507"N | 103°52'45.218"W | 2.11             |          |
| 12315.00   | 90.600             | 178.500        | 9041.74     | 3502.86           | -3502.95      | -22.56       | 640533.45            | 421070.30             | 32°09'24.567"N | 103°52'45.190"W | 0.85             |          |
| 12410.00   | 91.400             | 178.200        | 9040.08     | 3597.81           | -3597.89      | -19.82       | 640536.18            | 420975.36             | 32°09'23.628"N | 103°52'45.162"W | 0.90             |          |
| 12505.00   | 90.100             | 178.200        | 9038.84     | 3692.77           | -3692.84      | -16.84       | 640539.16            | 420880.42             | 32°09'22.688"N | 103°52'45.132"W | 1.37             |          |
| 12600.00   | 90.300             | 177.590        | 9038.51     | 3787.71           | -3787.77      | -13.35       | 640542.65            | 420785.49             | 32°09'21.748"N | 103°52'45.096"W | 0.68             |          |
| 12694.00   | 89.900             | 178.300        | 9038.34     | 3881.66           | -3881.71      | -9.98        | 640546.02            | 420691.56             | 32°09'20.819"N | 103°52'45.062"W | 0.87             |          |
| 12789.00   | 90.900             | 179.400        | 9037.68     | 3976.64           | -3976.69      | -8.07        | 640547.93            | 420596.59             | 32°09'19.879"N | 103°52'45.044"W | 1.56             |          |
| 12884.00   | 88.300             | 177.800        | 9038.34     | 4071.61           | -4071.64      | -5.75        | 640550.25            | 420501.64             | 32°09'18.939"N | 103°52'45.022"W | 3.21             |          |
| 12979.00   | 87.700             | 177.900        | 9041.66     | 4166.49           | -4166.52      | -2.19        | 640553.81            | 420406.77             | 32°09'18.000"N | 103°52'44.985"W | 0.64             |          |
| 13074.00   | 87.400             | 178.200        | 9045.72     | 4261.36           | -4261.38      | 1.04         | 640557.04            | 420311.92             | 32°09'17.061"N | 103°52'44.952"W | 0.45             |          |
| 13169.00   | 88.100             | 178.100        | 9049.45     | 4356.24           | -4356.25      | 4.11         | 640560.11            | 420217.05             | 32°09'16.122"N | 103°52'44.921"W | 0.74             |          |
| 13264.00   | 87.000             | 177.900        | 9053.51     | 4451.11           | -4451.11      | 7.42         | 640563.42            | 420122.21             | 32°09'15.184"N | 103°52'44.887"W | 1.18             |          |
| 13359.00   | 87.900             | 178.400        | 9057.74     | 4545.97           | -4545.96      | 10.48        | 640566.48            | 420027.36             | 32°09'14.245"N | 103°52'44.856"W | 1.08             |          |



# Actual Wellpath Report

No.1 AWB

Page 5 of 5



## REFERENCE WELLPATH IDENTIFICATION

|          |                                           |          |          |
|----------|-------------------------------------------|----------|----------|
| Operator | BOPCO, L.P.                               | Slot     | No.1 SHL |
| Area     | Eddy County, NM                           | Well     | No.1     |
| Field    | Poker Lake Unit                           | Wellbore | No.1 AWB |
| Facility | Poker Lake Pierce Canyon 4-25-30 USA No.1 |          |          |

## WELLPATH DATA (142 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    |
|------------|--------------------|----------------|-------------|-------------------|---------------|--------------|----------------------|-----------------------|----------------|-----------------|------------------|-------------|
| 13454.00   | 87.600             | 178.700        | 9061.47     | 4640.88           | -4640.86      | 12.88        | 640568.88            | 419932.47             | 32°09'13.306"N | 103°52'44.833"W | 0.45             |             |
| 13549.00   | 88.500             | 178.300        | 9064.70     | 4735.79           | -4735.77      | 15.37        | 640571.37            | 419837.56             | 32°09'12.366"N | 103°52'44.809"W | 1.04             |             |
| 13644.00   | 90.100             | 179.000        | 9065.86     | 4830.76           | -4830.73      | 17.61        | 640573.61            | 419742.61             | 32°09'11.427"N | 103°52'44.788"W | 1.84             |             |
| 13739.00   | 90.100             | 179.600        | 9065.69     | 4925.76           | -4925.73      | 18.77        | 640574.77            | 419647.62             | 32°09'10.486"N | 103°52'44.779"W | 0.63             |             |
| 13834.00   | 91.600             | 179.600        | 9064.28     | 5020.75           | -5020.71      | 19.43        | 640575.43            | 419552.64             | 32°09'09.547"N | 103°52'44.776"W | 1.58             |             |
| 13886.00   | 92.100             | 179.700        | 9062.61     | 5072.72           | -5072.68      | 19.75        | 640575.75            | 419500.67             | 32°09'09.032"N | 103°52'44.775"W | 0.98             |             |
| 13940.00   | 92.100             | 179.700        | 9060.63     | 5126.68           | -5126.64      | 20.03        | 640576.03            | 419446.72             | 32°09'08.498"N | 103°52'44.774"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 |
|-----------------------------------------|------------|-------------|---------------|--------------|----------------------|-----------------------|----------------|-----------------|-------|
| PLU Pierce Canyon 4-25-30 USA No.1 PBHL |            | 9042.00     | -5092.36      | 16.00        | 640572.00            | 419481.00             | 32°09'08.838"N | 103°52'44.819"W | point |

## WELLPATH COMPOSITION - Ref Wellbore: No.1 AWB Ref Wellpath: No.1 AWB

| Start MD<br>[ft] | End MD<br>[ft] | Positional Uncertainty Model           | Log Name/Comment            | Wellbore |
|------------------|----------------|----------------------------------------|-----------------------------|----------|
| 0.00             | 3759.00        | Generic gyro - northseeking (Standard) | Gyro <100-3759>             | No.1 AWB |
| 3759.00          | 13886.00       | NaviTrak (Standard)                    | BHI MWD NaviTrak <995-XXXX> | No.1 AWB |
| 13886.00         | 13940.00       | Blind Drilling (std)                   | Projection to bit           | No.1 AWB |