

| Cub Creek Energy, LLC |                 |          |                   |
|-----------------------|-----------------|----------|-------------------|
| Location              | Weld County, CO | Slot     | KNIGHT 17         |
| Field                 | WATTENBERG      | Well     | W KNIGHT 17       |
| Installation          | Knight Pad      | Wellbore | W KNIGHT 17 (PWB) |

**GRID**

|          |                   |
|----------|-------------------|
| Slot     | KNIGHT 17         |
| Well     | W KNIGHT 17       |
| Wellbore | W KNIGHT 17 (PWB) |

-3200      -2400      -1600      -800      -0      800  
Scale 1 cm = 400 ft

Surface 0.00 N 0.00 E

| WELL PROFILE DATA       |          |       |        |         |            |           |           |          |
|-------------------------|----------|-------|--------|---------|------------|-----------|-----------|----------|
| Point                   | MD       | Inc   | Azi    | TVD     | North      | East      | deg/100ft | V. Sect  |
| Tie on                  | 17.00    | 0.00  | 0.00   | 17.00   | S 0.00     | W 0.00    |           | -0.00    |
| KOP                     | 1637.00  | 0.00  | 297.99 | 1637.00 | S 0.00     | W 0.00    | 0.00      | -0.00    |
| End of Build            | 2898.56  | 25.23 | 297.99 | 2858.18 | N 128.28   | W 241.34  | 2.00      | -81.24   |
| End of Hold             | 6918.59  | 25.23 | 297.99 | 6494.68 | N 932.54   | W 1754.50 | 0.00      | -590.62  |
| Target Knight 17 EP     | 7934.44  | 90.00 | 179.88 | 7130.00 | N 370.73   | W 2017.45 | 10.00     | 10.24    |
| T.D. & Target Kni... BH | 18867.09 | 90.00 | 179.88 | 7130.00 | S 10561.90 | W 1995.41 | 0.00      | 10748.74 |

**Vertical Section (Feet) ->**

**Scale 1 cm = 400 ft**

**Created by admin**  
**Date plotted 1-Dec-2017**

Plot reference is W KNIGHT 17 (PWB).  
 Ref wellpath is W KNIGHT 17 (PWP#1).  
 Coordinates are in Feet reference KNIGHT 17.  
 True Vertical Depths are reference Rig Datum.  
 Measured Depths are reference Rig Datum.  
 Rig Datum: Planned Datum #1  
 Rig Datum to Mean Sea Level: 5011.00 ft.  
 Plot North is aligned to GRID North.

**Key Points:**

- Tie on - 0.00 Inc, 17.00 MD, 17.00 TVD, -0.00 VS
- 3DS Kick off Point - 0.00 Inc, 1637.00 MD, 1637.00 TVD, -0.00 VS
- End of Build - 25.23 Inc, 2898.56 MD, 2858.18 TVD, -81.24 VS
- End of Hold - 25.23 Inc, 6918.59 MD, 6494.68 TVD, -590.62 VS
- Knight 17 EP
- S/C Kick off Point - 90.00 Inc, 7934.44 MD, 7130.00 TVD, 10.24 VS
- T.D. & End of Hold - 7130.00 TVD, 10561.90 S 1995.41 W

**Wellbore Labels:**

- Knight 17 BH
- W KNIGHT 17 (PWB)



SYSDRILL  
Well Design Combined Report  
Wellbore: W KNIGHT 17 (PWB)



| Wellhead Details |             |               |              |              |         |        |                             |
|------------------|-------------|---------------|--------------|--------------|---------|--------|-----------------------------|
| Name             | Latitude    | Longitude     | Northing     | Easting      | North   | East   | Slot Elevation Above Ground |
| KNIGHT 17        | 40.19775400 | -105.04205500 | 1315214.5960 | 3127922.3434 | 104.31S | 23.21W | 0.00                        |

| Declination |                          |       |
|-------------|--------------------------|-------|
| Date        | Source                   | Time  |
| Nov-6-2017  | EMM-2015 [2000.0-2020.0] | 14:52 |

| Installation Details |                                  |                                   |              |              |  |                 |
|----------------------|----------------------------------|-----------------------------------|--------------|--------------|--|-----------------|
| Name                 | Installation Position (Latitude) | Installation Position (Longitude) | Northing     | Easting      | Coord System Name                          | North Alignment |
| Knight Pad           | 40.19804000                      | -105.04197000                     | 1315318.9022 | 3127945.5490 | CO83-NF on NORTH AMERICAN DATUM 1983 datum | Grid            |

| Summary Wellpath |          |          |         |           |          |                    |                      |            |            |
|------------------|----------|----------|---------|-----------|----------|--------------------|----------------------|------------|------------|
| MD[ft]           | Inc[deg] | Azi[deg] | TVD[ft] | North[ft] | East[ft] | Dogleg [deg/100ft] | Vertical Section[ft] | Northing   | Easting    |
| 17.00            | 0.00     | 0.000    | 17.00   | 0.00N     | 0.00E    |                    | 0.00                 | 1315214.60 | 3127922.34 |
| 1637.00          | 0.00     | 297.990  | 1637.00 | 0.00N     | 0.00E    | ==>                | 0.00                 | 1315214.60 | 3127922.34 |
| 2898.56          | 25.23    | 297.990  | 2858.18 | 128.28N   | 241.34W  | 2.00               | -81.24               | 1315342.87 | 3127681.01 |
| 6918.59          | 25.23    | 297.990  | 6494.68 | 932.54N   | 1754.50W | ==>                | -590.62              | 1316147.10 | 3126167.92 |
| 7934.44          | 90.00    | 179.880  | 7130.00 | 370.73N   | 2017.45W | 10.00              | 10.24                | 1315585.30 | 3125904.99 |
| 18867.09         | 90.00    | 179.880  | 7130.00 | 10561.90S | 1995.41W | ==>                | 10748.74             | 1304653.17 | 3125927.02 |

| Interpolated Wellpath |          |          |         |           |          |                    |                      |                      |
|-----------------------|----------|----------|---------|-----------|----------|--------------------|----------------------|----------------------|
| MD[ft]                | Inc[deg] | Azi[deg] | TVD[ft] | North[ft] | East[ft] | Dogleg [deg/100ft] | Vertical Section[ft] | All Station Comments |
| 0.00                  | 0.00     | 0.000    | 0.00    | 0.00N     | 0.00E    |                    | 0.00                 | Rig Datum            |
| 17.00                 | 0.00     | 0.000    | 17.00   | 0.00N     | 0.00E    | ==>                | 0.00                 | Slot Datum           |
| 100.00                | 0.00     | 0.000    | 100.00  | 0.00N     | 0.00E    | ==>                | 0.00                 |                      |
| 200.00                | 0.00     | 0.000    | 200.00  | 0.00N     | 0.00E    | ==>                | 0.00                 |                      |
| 300.00                | 0.00     | 0.000    | 300.00  | 0.00N     | 0.00E    | ==>                | 0.00                 |                      |
| 400.00                | 0.00     | 0.000    | 400.00  | 0.00N     | 0.00E    | ==>                | 0.00                 |                      |
| 500.00                | 0.00     | 0.000    | 500.00  | 0.00N     | 0.00E    | ==>                | 0.00                 |                      |
| 600.00                | 0.00     | 0.000    | 600.00  | 0.00N     | 0.00E    | ==>                | 0.00                 |                      |
| 700.00                | 0.00     | 0.000    | 700.00  | 0.00N     | 0.00E    | ==>                | 0.00                 |                      |
| 800.00                | 0.00     | 0.000    | 800.00  | 0.00N     | 0.00E    | ==>                | 0.00                 |                      |
| 900.00                | 0.00     | 0.000    | 900.00  | 0.00N     | 0.00E    | ==>                | 0.00                 |                      |
| 1000.00               | 0.00     | 0.000    | 1000.00 | 0.00N     | 0.00E    | ==>                | 0.00                 |                      |
| 1100.00               | 0.00     | 0.000    | 1100.00 | 0.00N     | 0.00E    | ==>                | 0.00                 |                      |
| 1200.00               | 0.00     | 0.000    | 1200.00 | 0.00N     | 0.00E    | ==>                | 0.00                 |                      |
| 1300.00               | 0.00     | 0.000    | 1300.00 | 0.00N     | 0.00E    | ==>                | 0.00                 |                      |
| 1400.00               | 0.00     | 0.000    | 1400.00 | 0.00N     | 0.00E    | ==>                | 0.00                 |                      |
| 1500.00               | 0.00     | 0.000    | 1500.00 | 0.00N     | 0.00E    | ==>                | 0.00                 |                      |
| 1600.00               | 0.00     | 0.000    | 1600.00 | 0.00N     | 0.00E    | ==>                | 0.00                 |                      |
| 1700.00               | 1.26     | 297.990  | 1699.99 | 0.33N     | 0.61W    | 2.00               | -0.21                |                      |
| 1800.00               | 3.26     | 297.990  | 1799.91 | 2.18N     | 4.09W    | 2.00               | -1.38                |                      |
| 1900.00               | 5.26     | 297.990  | 1899.63 | 5.66N     | 10.65W   | 2.00               | -3.59                |                      |
| 2000.00               | 7.26     | 297.990  | 1999.03 | 10.78N    | 20.28W   | 2.00               | -6.83                |                      |
| 2100.00               | 9.26     | 297.990  | 2097.99 | 17.52N    | 32.97W   | 2.00               | -11.10               |                      |
| 2200.00               | 11.26    | 297.990  | 2196.38 | 25.88N    | 48.69W   | 2.00               | -16.39               |                      |
| 2300.00               | 13.26    | 297.990  | 2294.10 | 35.85N    | 67.44W   | 2.00               | -22.70               |                      |
| 2400.00               | 15.26    | 297.990  | 2391.01 | 47.41N    | 89.19W   | 2.00               | -30.03               |                      |
| 2500.00               | 17.26    | 297.990  | 2487.01 | 60.55N    | 113.92W  | 2.00               | -38.35               |                      |
| 2600.00               | 19.26    | 297.990  | 2581.97 | 75.25N    | 141.58W  | 2.00               | -47.66               |                      |
| 2700.00               | 21.26    | 297.990  | 2675.77 | 91.50N    | 172.16W  | 2.00               | -57.95               |                      |
| 2800.00               | 23.26    | 297.990  | 2768.32 | 109.28N   | 205.61W  | 2.00               | -69.21               |                      |
| 2900.00               | 25.23    | 297.990  | 2859.48 | 128.56N   | 241.88W  | ==>                | -81.43               |                      |
| 3000.00               | 25.23    | 297.990  | 2949.94 | 148.57N   | 279.53W  | ==>                | -94.10               |                      |
| 3100.00               | 25.23    | 297.990  | 3040.40 | 168.58N   | 317.17W  | ==>                | -106.77              |                      |

All data is in Feet unless otherwise stated  
Coordinates are from Slot MD's are from Rig ( Planned Datum #1 5011.0ft above Mean Sea Level )  
Vertical Section is from 0.00N 0.00E on azimuth 190.700 degrees  
Bottom hole distance is 10748.74 Feet on azimuth 190.70 degrees from Wellhead  
Calculation method uses Minimum Curvature method  
Prepared by Microsoft  
Date Printed: 1-Dec-2017



SYSDRILL  
Well Design Combined Report  
Wellbore: W KNIGHT 17 (PWB)



| Interpolated Wellpath |          |          |         |           |          |                       |                         |                         |
|-----------------------|----------|----------|---------|-----------|----------|-----------------------|-------------------------|-------------------------|
| MD[ft]                | Inc[deg] | Azi[deg] | TVD[ft] | North[ft] | East[ft] | Dogleg<br>[deg/100ft] | Vertical<br>Section[ft] | All Station<br>Comments |
| 3200.00               | 25.23    | 297.990  | 3130.86 | 188.58N   | 354.81W  | ==>                   | -119.44                 |                         |
| 3300.00               | 25.23    | 297.990  | 3221.32 | 208.59N   | 392.45W  | ==>                   | -132.11                 |                         |
|                       |          |          |         |           |          |                       |                         |                         |
| 3400.00               | 25.23    | 297.990  | 3311.78 | 228.60N   | 430.09W  | ==>                   | -144.78                 |                         |
| 3500.00               | 25.23    | 297.990  | 3402.24 | 248.60N   | 467.73W  | ==>                   | -157.45                 |                         |
| 3600.00               | 25.23    | 297.990  | 3492.70 | 268.61N   | 505.37W  | ==>                   | -170.12                 |                         |
| 3700.00               | 25.23    | 297.990  | 3583.16 | 288.62N   | 543.01W  | ==>                   | -182.79                 |                         |
| 3800.00               | 25.23    | 297.990  | 3673.62 | 308.62N   | 580.65W  | ==>                   | -195.47                 |                         |
|                       |          |          |         |           |          |                       |                         |                         |
| 3900.00               | 25.23    | 297.990  | 3764.08 | 328.63N   | 618.29W  | ==>                   | -208.14                 |                         |
| 4000.00               | 25.23    | 297.990  | 3854.54 | 348.64N   | 655.93W  | ==>                   | -220.81                 |                         |
| 4100.00               | 25.23    | 297.990  | 3945.00 | 368.64N   | 693.57W  | ==>                   | -233.48                 |                         |
| 4200.00               | 25.23    | 297.990  | 4035.46 | 388.65N   | 731.21W  | ==>                   | -246.15                 |                         |
| 4300.00               | 25.23    | 297.990  | 4125.92 | 408.66N   | 768.85W  | ==>                   | -258.82                 |                         |
|                       |          |          |         |           |          |                       |                         |                         |
| 4400.00               | 25.23    | 297.990  | 4216.38 | 428.66N   | 806.49W  | ==>                   | -271.49                 |                         |
| 4500.00               | 25.23    | 297.990  | 4306.83 | 448.67N   | 844.13W  | ==>                   | -284.16                 |                         |
| 4600.00               | 25.23    | 297.990  | 4397.29 | 468.67N   | 881.77W  | ==>                   | -296.83                 |                         |
| 4700.00               | 25.23    | 297.990  | 4487.75 | 488.68N   | 919.41W  | ==>                   | -309.51                 |                         |
| 4800.00               | 25.23    | 297.990  | 4578.21 | 508.69N   | 957.05W  | ==>                   | -322.18                 |                         |
|                       |          |          |         |           |          |                       |                         |                         |
| 4900.00               | 25.23    | 297.990  | 4668.67 | 528.69N   | 994.70W  | ==>                   | -334.85                 |                         |
| 5000.00               | 25.23    | 297.990  | 4759.13 | 548.70N   | 1032.34W | ==>                   | -347.52                 |                         |
| 5100.00               | 25.23    | 297.990  | 4849.59 | 568.71N   | 1069.98W | ==>                   | -360.19                 |                         |
| 5200.00               | 25.23    | 297.990  | 4940.05 | 588.71N   | 1107.62W | ==>                   | -372.86                 |                         |
| 5300.00               | 25.23    | 297.990  | 5030.51 | 608.72N   | 1145.26W | ==>                   | -385.53                 |                         |
|                       |          |          |         |           |          |                       |                         |                         |
| 5400.00               | 25.23    | 297.990  | 5120.97 | 628.73N   | 1182.90W | ==>                   | -398.20                 |                         |
| 5500.00               | 25.23    | 297.990  | 5211.43 | 648.73N   | 1220.54W | ==>                   | -410.87                 |                         |
| 5600.00               | 25.23    | 297.990  | 5301.89 | 668.74N   | 1258.18W | ==>                   | -423.54                 |                         |
| 5700.00               | 25.23    | 297.990  | 5392.35 | 688.75N   | 1295.82W | ==>                   | -436.22                 |                         |
| 5800.00               | 25.23    | 297.990  | 5482.81 | 708.75N   | 1333.46W | ==>                   | -448.89                 |                         |
|                       |          |          |         |           |          |                       |                         |                         |
| 5900.00               | 25.23    | 297.990  | 5573.27 | 728.76N   | 1371.10W | ==>                   | -461.56                 |                         |
| 6000.00               | 25.23    | 297.990  | 5663.73 | 748.77N   | 1408.74W | ==>                   | -474.23                 |                         |
| 6100.00               | 25.23    | 297.990  | 5754.19 | 768.77N   | 1446.38W | ==>                   | -486.90                 |                         |
| 6200.00               | 25.23    | 297.990  | 5844.65 | 788.78N   | 1484.02W | ==>                   | -499.57                 |                         |
| 6300.00               | 25.23    | 297.990  | 5935.11 | 808.78N   | 1521.66W | ==>                   | -512.24                 |                         |
|                       |          |          |         |           |          |                       |                         |                         |
| 6400.00               | 25.23    | 297.990  | 6025.57 | 828.79N   | 1559.30W | ==>                   | -524.91                 |                         |
| 6500.00               | 25.23    | 297.990  | 6116.03 | 848.80N   | 1596.94W | ==>                   | -537.58                 |                         |
| 6600.00               | 25.23    | 297.990  | 6206.49 | 868.80N   | 1634.58W | ==>                   | -550.25                 |                         |
| 6700.00               | 25.23    | 297.990  | 6296.94 | 888.81N   | 1672.23W | ==>                   | -562.93                 |                         |
| 6800.00               | 25.23    | 297.990  | 6387.40 | 908.82N   | 1709.87W | ==>                   | -575.60                 |                         |
|                       |          |          |         |           |          |                       |                         |                         |
| 6900.00               | 25.23    | 297.990  | 6477.86 | 928.82N   | 1747.51W | ==>                   | -588.27                 |                         |
| 7000.00               | 22.82    | 278.790  | 6569.15 | 943.12N   | 1785.48W | 10.00                 | -595.26                 |                         |
| 7100.00               | 23.46    | 253.210  | 6661.34 | 940.33N   | 1823.79W | 10.00                 | -585.41                 |                         |
| 7200.00               | 27.73    | 232.130  | 6751.69 | 920.24N   | 1861.31W | 10.00                 | -558.71                 |                         |
| 7300.00               | 34.31    | 217.410  | 6837.46 | 883.48N   | 1896.89W | 10.00                 | -515.98                 |                         |
|                       |          |          |         |           |          |                       |                         |                         |
| 7400.00               | 42.12    | 207.250  | 6916.05 | 831.14N   | 1929.45W | 10.00                 | -458.51                 |                         |
| 7500.00               | 50.58    | 199.860  | 6985.06 | 764.84N   | 1958.00W | 10.00                 | -388.05                 |                         |
| 7600.00               | 59.41    | 194.110  | 7042.40 | 686.56N   | 1981.67W | 10.00                 | -306.75                 |                         |
| 7700.00               | 68.45    | 189.330  | 7086.33 | 598.71N   | 1999.75W | 10.00                 | -217.07                 |                         |
| 7800.00               | 77.60    | 185.130  | 7115.50 | 503.94N   | 2011.69W | 10.00                 | -121.73                 |                         |
|                       |          |          |         |           |          |                       |                         |                         |
| 7900.00               | 86.82    | 181.210  | 7129.04 | 405.14N   | 2017.12W | 10.00                 | -23.64                  |                         |
| 8000.00               | 90.00    | 179.880  | 7130.00 | 305.16N   | 2017.32W | ==>                   | 74.64                   |                         |
| 8100.00               | 90.00    | 179.880  | 7130.00 | 205.16N   | 2017.11W | ==>                   | 172.86                  |                         |
| 8200.00               | 90.00    | 179.880  | 7130.00 | 105.16N   | 2016.91W | ==>                   | 271.09                  |                         |
| 8300.00               | 90.00    | 179.880  | 7130.00 | 5.16N     | 2016.71W | ==>                   | 369.31                  |                         |
|                       |          |          |         |           |          |                       |                         |                         |
| 8400.00               | 90.00    | 179.880  | 7130.00 | 94.84S    | 2016.51W | ==>                   | 467.54                  |                         |
| 8500.00               | 90.00    | 179.880  | 7130.00 | 194.84S   | 2016.31W | ==>                   | 565.76                  |                         |
| 8600.00               | 90.00    | 179.880  | 7130.00 | 294.84S   | 2016.11W | ==>                   | 663.98                  |                         |
| 8700.00               | 90.00    | 179.880  | 7130.00 | 394.84S   | 2015.90W | ==>                   | 762.21                  |                         |
| 8800.00               | 90.00    | 179.880  | 7130.00 | 494.84S   | 2015.70W | ==>                   | 860.43                  |                         |
|                       |          |          |         |           |          |                       |                         |                         |
| 8900.00               | 90.00    | 179.880  | 7130.00 | 594.84S   | 2015.50W | ==>                   | 958.66                  |                         |
| 9000.00               | 90.00    | 179.880  | 7130.00 | 694.84S   | 2015.30W | ==>                   | 1056.88                 |                         |

All data is in Feet unless otherwise stated  
Coordinates are from Slot MD's are from Rig and TVD's are from Rig ( Planned Datum #1 5011.0ft above Mean Sea Level )  
Vertical Section is from 0.00N 0.00E on azimuth 190.700 degrees  
Bottom hole distance is 10748.74 Feet on azimuth 190.70 degrees from Wellhead  
Calculation method uses Minimum Curvature method  
Prepared by Microsoft  
Date Printed: 1-Dec-2017



SYSDRILL  
Well Design Combined Report  
Wellbore: W KNIGHT 17 (PWB)



| Interpolated Wellpath |          |          |         |           |          |                       |                         |                         |
|-----------------------|----------|----------|---------|-----------|----------|-----------------------|-------------------------|-------------------------|
| MD[ft]                | Inc[deg] | Azi[deg] | TVD[ft] | North[ft] | East[ft] | Dogleg<br>[deg/100ft] | Vertical<br>Section[ft] | All Station<br>Comments |
| 9100.00               | 90.00    | 179.880  | 7130.00 | 794.84S   | 2015.10W | ==>                   | 1155.11                 |                         |
| 9200.00               | 90.00    | 179.880  | 7130.00 | 894.84S   | 2014.90W | ==>                   | 1253.33                 |                         |
| 9300.00               | 90.00    | 179.880  | 7130.00 | 994.84S   | 2014.70W | ==>                   | 1351.55                 |                         |
| 9400.00               | 90.00    | 179.880  | 7130.00 | 1094.84S  | 2014.49W | ==>                   | 1449.78                 |                         |
| 9500.00               | 90.00    | 179.880  | 7130.00 | 1194.83S  | 2014.29W | ==>                   | 1548.00                 |                         |
| 9600.00               | 90.00    | 179.880  | 7130.00 | 1294.83S  | 2014.09W | ==>                   | 1646.23                 |                         |
| 9700.00               | 90.00    | 179.880  | 7130.00 | 1394.83S  | 2013.89W | ==>                   | 1744.45                 |                         |
| 9800.00               | 90.00    | 179.880  | 7130.00 | 1494.83S  | 2013.69W | ==>                   | 1842.67                 |                         |
| 9900.00               | 90.00    | 179.880  | 7130.00 | 1594.83S  | 2013.49W | ==>                   | 1940.90                 |                         |
| 10000.00              | 90.00    | 179.880  | 7130.00 | 1694.83S  | 2013.28W | ==>                   | 2039.12                 |                         |
| 10100.00              | 90.00    | 179.880  | 7130.00 | 1794.83S  | 2013.08W | ==>                   | 2137.35                 |                         |
| 10200.00              | 90.00    | 179.880  | 7130.00 | 1894.83S  | 2012.88W | ==>                   | 2235.57                 |                         |
| 10300.00              | 90.00    | 179.880  | 7130.00 | 1994.83S  | 2012.68W | ==>                   | 2333.80                 |                         |
| 10400.00              | 90.00    | 179.880  | 7130.00 | 2094.83S  | 2012.48W | ==>                   | 2432.02                 |                         |
| 10500.00              | 90.00    | 179.880  | 7130.00 | 2194.83S  | 2012.28W | ==>                   | 2530.24                 |                         |
| 10600.00              | 90.00    | 179.880  | 7130.00 | 2294.83S  | 2012.08W | ==>                   | 2628.47                 |                         |
| 10700.00              | 90.00    | 179.880  | 7130.00 | 2394.83S  | 2011.87W | ==>                   | 2726.69                 |                         |
| 10800.00              | 90.00    | 179.880  | 7130.00 | 2494.83S  | 2011.67W | ==>                   | 2824.92                 |                         |
| 10900.00              | 90.00    | 179.880  | 7130.00 | 2594.83S  | 2011.47W | ==>                   | 2923.14                 |                         |
| 11000.00              | 90.00    | 179.880  | 7130.00 | 2694.83S  | 2011.27W | ==>                   | 3021.36                 |                         |
| 11100.00              | 90.00    | 179.880  | 7130.00 | 2794.83S  | 2011.07W | ==>                   | 3119.59                 |                         |
| 11200.00              | 90.00    | 179.880  | 7130.00 | 2894.83S  | 2010.87W | ==>                   | 3217.81                 |                         |
| 11300.00              | 90.00    | 179.880  | 7130.00 | 2994.83S  | 2010.66W | ==>                   | 3316.04                 |                         |
| 11400.00              | 90.00    | 179.880  | 7130.00 | 3094.83S  | 2010.46W | ==>                   | 3414.26                 |                         |
| 11500.00              | 90.00    | 179.880  | 7130.00 | 3194.83S  | 2010.26W | ==>                   | 3512.48                 |                         |
| 11600.00              | 90.00    | 179.880  | 7130.00 | 3294.83S  | 2010.06W | ==>                   | 3610.71                 |                         |
| 11700.00              | 90.00    | 179.880  | 7130.00 | 3394.83S  | 2009.86W | ==>                   | 3708.93                 |                         |
| 11800.00              | 90.00    | 179.880  | 7130.00 | 3494.83S  | 2009.66W | ==>                   | 3807.16                 |                         |
| 11900.00              | 90.00    | 179.880  | 7130.00 | 3594.83S  | 2009.46W | ==>                   | 3905.38                 |                         |
| 12000.00              | 90.00    | 179.880  | 7130.00 | 3694.83S  | 2009.25W | ==>                   | 4003.61                 |                         |
| 12100.00              | 90.00    | 179.880  | 7130.00 | 3794.83S  | 2009.05W | ==>                   | 4101.83                 |                         |
| 12200.00              | 90.00    | 179.880  | 7130.00 | 3894.83S  | 2008.85W | ==>                   | 4200.05                 |                         |
| 12300.00              | 90.00    | 179.880  | 7130.00 | 3994.83S  | 2008.65W | ==>                   | 4298.28                 |                         |
| 12400.00              | 90.00    | 179.880  | 7130.00 | 4094.83S  | 2008.45W | ==>                   | 4396.50                 |                         |
| 12500.00              | 90.00    | 179.880  | 7130.00 | 4194.83S  | 2008.25W | ==>                   | 4494.73                 |                         |
| 12600.00              | 90.00    | 179.880  | 7130.00 | 4294.83S  | 2008.04W | ==>                   | 4592.95                 |                         |
| 12700.00              | 90.00    | 179.880  | 7130.00 | 4394.83S  | 2007.84W | ==>                   | 4691.17                 |                         |
| 12800.00              | 90.00    | 179.880  | 7130.00 | 4494.83S  | 2007.64W | ==>                   | 4789.40                 |                         |
| 12900.00              | 90.00    | 179.880  | 7130.00 | 4594.83S  | 2007.44W | ==>                   | 4887.62                 |                         |
| 13000.00              | 90.00    | 179.880  | 7130.00 | 4694.83S  | 2007.24W | ==>                   | 4985.85                 |                         |
| 13100.00              | 90.00    | 179.880  | 7130.00 | 4794.83S  | 2007.04W | ==>                   | 5084.07                 |                         |
| 13200.00              | 90.00    | 179.880  | 7130.00 | 4894.83S  | 2006.84W | ==>                   | 5182.30                 |                         |
| 13300.00              | 90.00    | 179.880  | 7130.00 | 4994.83S  | 2006.63W | ==>                   | 5280.52                 |                         |
| 13400.00              | 90.00    | 179.880  | 7130.00 | 5094.83S  | 2006.43W | ==>                   | 5378.74                 |                         |
| 13500.00              | 90.00    | 179.880  | 7130.00 | 5194.83S  | 2006.23W | ==>                   | 5476.97                 |                         |
| 13600.00              | 90.00    | 179.880  | 7130.00 | 5294.83S  | 2006.03W | ==>                   | 5575.19                 |                         |
| 13700.00              | 90.00    | 179.880  | 7130.00 | 5394.83S  | 2005.83W | ==>                   | 5673.42                 |                         |
| 13800.00              | 90.00    | 179.880  | 7130.00 | 5494.83S  | 2005.63W | ==>                   | 5771.64                 |                         |
| 13900.00              | 90.00    | 179.880  | 7130.00 | 5594.83S  | 2005.42W | ==>                   | 5869.86                 |                         |
| 14000.00              | 90.00    | 179.880  | 7130.00 | 5694.83S  | 2005.22W | ==>                   | 5968.09                 |                         |
| 14100.00              | 90.00    | 179.880  | 7130.00 | 5794.83S  | 2005.02W | ==>                   | 6066.31                 |                         |
| 14200.00              | 90.00    | 179.880  | 7130.00 | 5894.83S  | 2004.82W | ==>                   | 6164.54                 |                         |
| 14300.00              | 90.00    | 179.880  | 7130.00 | 5994.83S  | 2004.62W | ==>                   | 6262.76                 |                         |
| 14400.00              | 90.00    | 179.880  | 7130.00 | 6094.82S  | 2004.42W | ==>                   | 6360.98                 |                         |
| 14500.00              | 90.00    | 179.880  | 7130.00 | 6194.82S  | 2004.22W | ==>                   | 6459.21                 |                         |
| 14600.00              | 90.00    | 179.880  | 7130.00 | 6294.82S  | 2004.01W | ==>                   | 6557.43                 |                         |
| 14700.00              | 90.00    | 179.880  | 7130.00 | 6394.82S  | 2003.81W | ==>                   | 6655.66                 |                         |
| 14800.00              | 90.00    | 179.880  | 7130.00 | 6494.82S  | 2003.61W | ==>                   | 6753.88                 |                         |
| 14900.00              | 90.00    | 179.880  | 7130.00 | 6594.82S  | 2003.41W | ==>                   | 6852.11                 |                         |

All data is in Feet unless otherwise stated  
Coordinates are from Slot MD's are from Rig and TVD's are from Rig ( Planned Datum #1 5011.0ft above Mean Sea Level )  
Vertical Section is from 0.00N 0.00E on azimuth 190.700 degrees  
Bottom hole distance is 10748.74 Feet on azimuth 190.70 degrees from Wellhead  
Calculation method uses Minimum Curvature method  
Prepared by Microsoft  
Date Printed: 1-Dec-2017



SYS DRILL  
Well Design Combined Report  
Wellbore: W KNIGHT 17 (PWB)



| Interpolated Wellpath |          |          |         |           |          |                       |                         |                         |
|-----------------------|----------|----------|---------|-----------|----------|-----------------------|-------------------------|-------------------------|
| MD[ft]                | Inc[deg] | Azi[deg] | TVD[ft] | North[ft] | East[ft] | Dogleg<br>[deg/100ft] | Vertical<br>Section[ft] | All Station<br>Comments |
| 15000.00              | 90.00    | 179.880  | 7130.00 | 6694.82S  | 2003.21W | ==>                   | 6950.33                 |                         |
| 15100.00              | 90.00    | 179.880  | 7130.00 | 6794.82S  | 2003.01W | ==>                   | 7048.55                 |                         |
| 15200.00              | 90.00    | 179.880  | 7130.00 | 6894.82S  | 2002.80W | ==>                   | 7146.78                 |                         |
| 15300.00              | 90.00    | 179.880  | 7130.00 | 6994.82S  | 2002.60W | ==>                   | 7245.00                 |                         |
| 15400.00              | 90.00    | 179.880  | 7130.00 | 7094.82S  | 2002.40W | ==>                   | 7343.23                 |                         |
| 15500.00              | 90.00    | 179.880  | 7130.00 | 7194.82S  | 2002.20W | ==>                   | 7441.45                 |                         |
| 15600.00              | 90.00    | 179.880  | 7130.00 | 7294.82S  | 2002.00W | ==>                   | 7539.67                 |                         |
| 15700.00              | 90.00    | 179.880  | 7130.00 | 7394.82S  | 2001.80W | ==>                   | 7637.90                 |                         |
| 15800.00              | 90.00    | 179.880  | 7130.00 | 7494.82S  | 2001.60W | ==>                   | 7736.12                 |                         |
| 15900.00              | 90.00    | 179.880  | 7130.00 | 7594.82S  | 2001.39W | ==>                   | 7834.35                 |                         |
| 16000.00              | 90.00    | 179.880  | 7130.00 | 7694.82S  | 2001.19W | ==>                   | 7932.57                 |                         |
| 16100.00              | 90.00    | 179.880  | 7130.00 | 7794.82S  | 2000.99W | ==>                   | 8030.80                 |                         |
| 16200.00              | 90.00    | 179.880  | 7130.00 | 7894.82S  | 2000.79W | ==>                   | 8129.02                 |                         |
| 16300.00              | 90.00    | 179.880  | 7130.00 | 7994.82S  | 2000.59W | ==>                   | 8227.24                 |                         |
| 16400.00              | 90.00    | 179.880  | 7130.00 | 8094.82S  | 2000.39W | ==>                   | 8325.47                 |                         |
| 16500.00              | 90.00    | 179.880  | 7130.00 | 8194.82S  | 2000.18W | ==>                   | 8423.69                 |                         |
| 16600.00              | 90.00    | 179.880  | 7130.00 | 8294.82S  | 1999.98W | ==>                   | 8521.92                 |                         |
| 16700.00              | 90.00    | 179.880  | 7130.00 | 8394.82S  | 1999.78W | ==>                   | 8620.14                 |                         |
| 16800.00              | 90.00    | 179.880  | 7130.00 | 8494.82S  | 1999.58W | ==>                   | 8718.36                 |                         |
| 16900.00              | 90.00    | 179.880  | 7130.00 | 8594.82S  | 1999.38W | ==>                   | 8816.59                 |                         |
| 17000.00              | 90.00    | 179.880  | 7130.00 | 8694.82S  | 1999.18W | ==>                   | 8914.81                 |                         |
| 17100.00              | 90.00    | 179.880  | 7130.00 | 8794.82S  | 1998.98W | ==>                   | 9013.04                 |                         |
| 17200.00              | 90.00    | 179.880  | 7130.00 | 8894.82S  | 1998.77W | ==>                   | 9111.26                 |                         |
| 17300.00              | 90.00    | 179.880  | 7130.00 | 8994.82S  | 1998.57W | ==>                   | 9209.48                 |                         |
| 17400.00              | 90.00    | 179.880  | 7130.00 | 9094.82S  | 1998.37W | ==>                   | 9307.71                 |                         |
| 17500.00              | 90.00    | 179.880  | 7130.00 | 9194.82S  | 1998.17W | ==>                   | 9405.93                 |                         |
| 17600.00              | 90.00    | 179.880  | 7130.00 | 9294.82S  | 1997.97W | ==>                   | 9504.16                 |                         |
| 17700.00              | 90.00    | 179.880  | 7130.00 | 9394.82S  | 1997.77W | ==>                   | 9602.38                 |                         |
| 17800.00              | 90.00    | 179.880  | 7130.00 | 9494.82S  | 1997.56W | ==>                   | 9700.61                 |                         |
| 17900.00              | 90.00    | 179.880  | 7130.00 | 9594.82S  | 1997.36W | ==>                   | 9798.83                 |                         |
| 18000.00              | 90.00    | 179.880  | 7130.00 | 9694.82S  | 1997.16W | ==>                   | 9897.05                 |                         |
| 18100.00              | 90.00    | 179.880  | 7130.00 | 9794.82S  | 1996.96W | ==>                   | 9995.28                 |                         |
| 18200.00              | 90.00    | 179.880  | 7130.00 | 9894.82S  | 1996.76W | ==>                   | 10093.50                |                         |
| 18300.00              | 90.00    | 179.880  | 7130.00 | 9994.82S  | 1996.56W | ==>                   | 10191.73                |                         |
| 18400.00              | 90.00    | 179.880  | 7130.00 | 10094.82S | 1996.36W | ==>                   | 10289.95                |                         |
| 18500.00              | 90.00    | 179.880  | 7130.00 | 10194.82S | 1996.15W | ==>                   | 10388.17                |                         |
| 18600.00              | 90.00    | 179.880  | 7130.00 | 10294.82S | 1995.95W | ==>                   | 10486.40                |                         |
| 18700.00              | 90.00    | 179.880  | 7130.00 | 10394.82S | 1995.75W | ==>                   | 10584.62                |                         |
| 18800.00              | 90.00    | 179.880  | 7130.00 | 10494.82S | 1995.55W | ==>                   | 10682.85                |                         |
| 18867.09              | 90.00    | 179.880  | 7130.00 | 10561.90S | 1995.41W | ==>                   | 10748.74                |                         |

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Vertical Section is from 0.00N 0.00E on azimuth 190.700 degrees  
Bottom hole distance is 10748.74 Feet on azimuth 190.70 degrees from Wellhead  
Calculation method uses Minimum Curvature method  
Prepared by Microsoft  
Date Printed: 1-Dec-2017



| Targets      |           |          |         |             |               |            |            |
|--------------|-----------|----------|---------|-------------|---------------|------------|------------|
| Name         | North[ft] | East[ft] | TVD[ft] | Latitude    | Longitude     | Northing   | Easting    |
| Knight 17 EP | 370.73N   | 2017.45W | 7130.00 | 40.19880000 | -105.04927000 | 1315585.30 | 3125904.99 |
| Knight 17 BH | 10561.90S | 1995.41W | 7130.00 | 40.16879000 | -105.04939000 | 1304653.17 | 3125927.02 |

| Notes |
|-------|
|       |