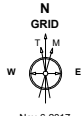


Cub Creek Energy, LLC

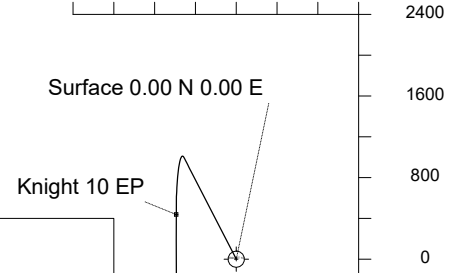
| | | | |
|---------------------|------------------------|-----------------|--------------------------|
| Location | Weld County, CO | Slot | KNIGHT 10 |
| Field | WATTENBERG | Well | W KNIGHT 10 |
| Installation | Knight Pad | Wellbore | W KNIGHT 10 (PWB) |



Nov-8-2017
 EMM-2015 Dip: 66.59 deg Field: 52154.0 nT
 Lat: N40 11 52.9440 Long: W105 2 31.0920 Elev: 4993.00 ft
 Magnetic North is 8.54 deg East of True North
 GRID North is 0.30 deg East of True North
 To correct azimuth from True to GRID subtract 0.30 deg
 To correct azimuth from Magnetic to GRID add 8.25 deg

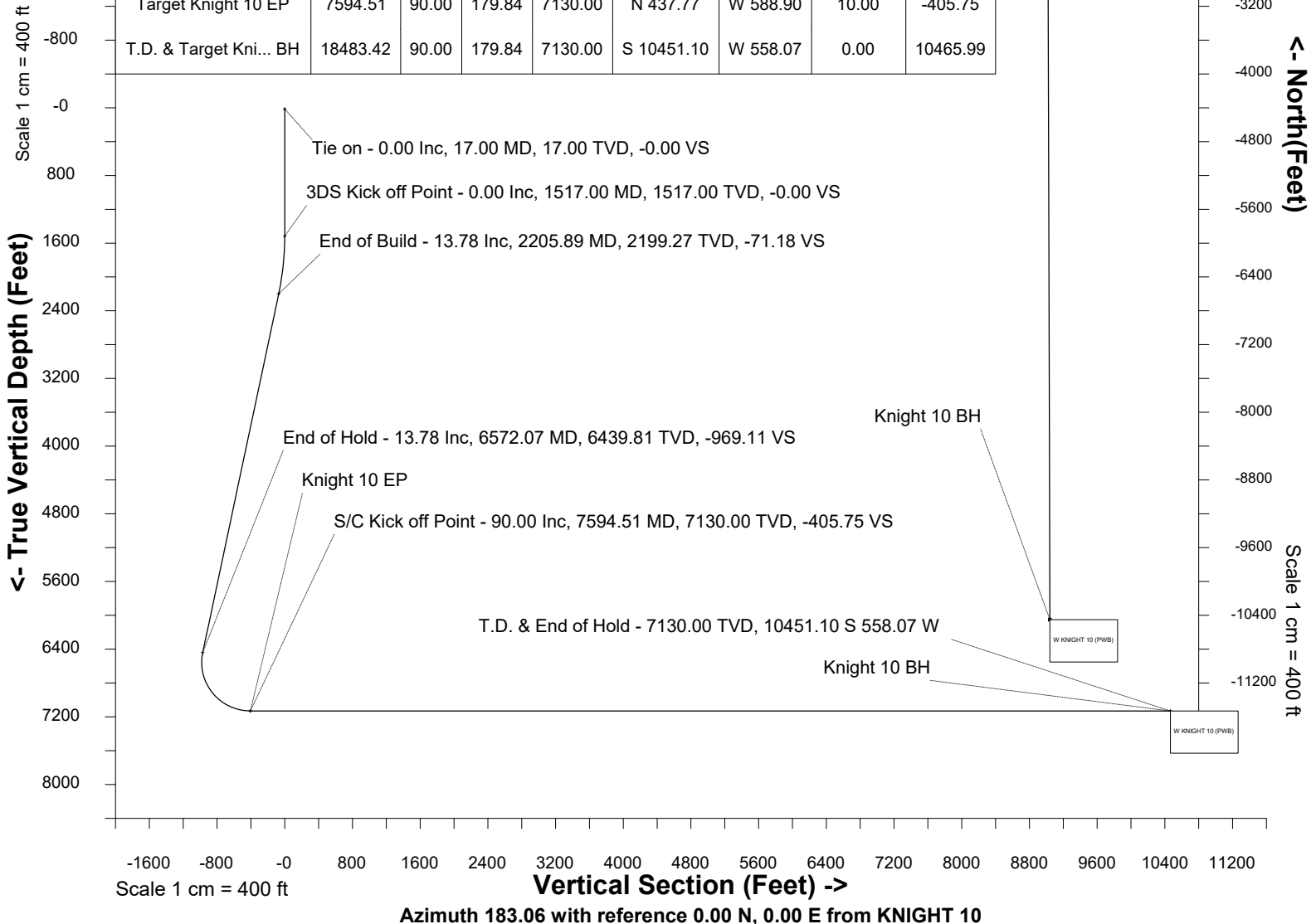
Created by sean.dolfinger
 Date plotted 14-Jul-2020
 Plot reference is W KNIGHT 10 (PWB).
 Ref wellpath is W KNIGHT 10 (PWP#1).
 Coordinates are in Feet reference KNIGHT 10.
 True Vertical Depths are reference Rig Datum.
 Measured Depths are reference Rig Datum.
 Rig Datum: Planned Datum #1
 Rig Datum to Mean Sea Level: 5010.00 ft.
 Plot North is aligned to GRID North.

Scale 1 cm = 400 ft
 East (Feet) ->
 -1600 -800 -0 800



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 | 1517.00 | 0.00 | 332.77 | 1517.00 | S 0.00 | W 0.00 | 0.00 | -0.00 |
| End of Build | 2205.89 | 13.78 | 332.77 | 2199.27 | N 73.30 | W 37.71 | 2.00 | -71.18 |
| End of Hold | 6572.07 | 13.78 | 332.77 | 6439.81 | N 997.91 | W 513.48 | 0.00 | -969.11 |
| Target Knight 10 EP | 7594.51 | 90.00 | 179.84 | 7130.00 | N 437.77 | W 588.90 | 10.00 | -405.75 |
| T.D. & Target Kni... BH | 18483.42 | 90.00 | 179.84 | 7130.00 | S 10451.10 | W 558.07 | 0.00 | 10465.99 |



SYSDRILL
Well Design Combined Report
Wellbore: W KNIGHT 10 (PWB)



| Wellhead Details | | | | | | | |
|------------------|-------------|---------------|--------------|--------------|---------|-------|-----------------------------|
| Name | Latitude | Longitude | Northing | Easting | North | East | Slot Elevation Above Ground |
| KNIGHT 10 | 40.19763000 | -105.04197000 | 1315169.5482 | 3127946.3204 | 149.36S | 0.77E | 0.00 |

| Declination | | |
|-------------|----------|-------|
| Date | Source | Time |
| Nov-6-2017 | EMM-2015 | 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 | NAD83 Based Colorado State Planes, Northern Zone, US Feet | Grid |

| Summary Wellpath | | | | | | | | |
|------------------|----------|----------|---------|-------------------|-----------|----------|--------------------|----------------------|
| MD[ft] | Inc[deg] | Azi[deg] | TVD[ft] | Vertical Depth SS | North[ft] | East[ft] | Dogleg [deg/100ft] | Vertical Section[ft] |
| 17.00 | 0.00 | 0.00 | 17.00 | -4993.00 | 0.00N | 0.00E | | 0.00 |
| 1517.00 | 0.00 | 332.77 | 1517.00 | -3493.00 | 0.00N | 0.00E | ==> | 0.00 |
| 2205.89 | 13.78 | 332.77 | 2199.27 | -2810.73 | 73.30N | 37.71W | 2.00 | -71.18 |
| 6572.07 | 13.78 | 332.77 | 6439.81 | 1429.81 | 997.91N | 513.48W | ==> | -969.11 |
| 7594.51 | 90.00 | 179.84 | 7130.00 | 2120.00 | 437.77N | 588.90W | 10.00 | -405.75 |
| 18483.42 | 90.00 | 179.84 | 7130.00 | 2120.00 | 10451.10S | 558.07W | ==> | 10465.99 |

| Interpolated Wellpath | | | | | | | | | |
|-----------------------|----------|----------|---------|-----------|----------|--------------------|----------------------|-----------------------------|------------------------------|
| MD[ft] | Inc[deg] | Azi[deg] | TVD[ft] | North[ft] | East[ft] | Dogleg [deg/100ft] | Vertical Section[ft] | Station Position (Latitude) | Station Position (Longitude) |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00N | 0.00E | | 0.00 | 40.19763000 | -105.04197000 |
| 17.00 | 0.00 | 0.00 | 17.00 | 0.00N | 0.00E | ==> | 0.00 | 40.19763000 | -105.04197000 |
| 100.00 | 0.00 | 0.00 | 100.00 | 0.00N | 0.00E | ==> | 0.00 | 40.19763000 | -105.04197000 |
| 200.00 | 0.00 | 0.00 | 200.00 | 0.00N | 0.00E | ==> | 0.00 | 40.19763000 | -105.04197000 |
| 300.00 | 0.00 | 0.00 | 300.00 | 0.00N | 0.00E | ==> | 0.00 | 40.19763000 | -105.04197000 |
| 400.00 | 0.00 | 0.00 | 400.00 | 0.00N | 0.00E | ==> | 0.00 | 40.19763000 | -105.04197000 |
| 500.00 | 0.00 | 0.00 | 500.00 | 0.00N | 0.00E | ==> | 0.00 | 40.19763000 | -105.04197000 |
| 600.00 | 0.00 | 0.00 | 600.00 | 0.00N | 0.00E | ==> | 0.00 | 40.19763000 | -105.04197000 |
| 700.00 | 0.00 | 0.00 | 700.00 | 0.00N | 0.00E | ==> | 0.00 | 40.19763000 | -105.04197000 |
| 800.00 | 0.00 | 0.00 | 800.00 | 0.00N | 0.00E | ==> | 0.00 | 40.19763000 | -105.04197000 |
| 900.00 | 0.00 | 0.00 | 900.00 | 0.00N | 0.00E | ==> | 0.00 | 40.19763000 | -105.04197000 |
| 1000.00 | 0.00 | 0.00 | 1000.00 | 0.00N | 0.00E | ==> | 0.00 | 40.19763000 | -105.04197000 |
| 1100.00 | 0.00 | 0.00 | 1100.00 | 0.00N | 0.00E | ==> | 0.00 | 40.19763000 | -105.04197000 |
| 1200.00 | 0.00 | 0.00 | 1200.00 | 0.00N | 0.00E | ==> | 0.00 | 40.19763000 | -105.04197000 |
| 1300.00 | 0.00 | 0.00 | 1300.00 | 0.00N | 0.00E | ==> | 0.00 | 40.19763000 | -105.04197000 |
| 1400.00 | 0.00 | 0.00 | 1400.00 | 0.00N | 0.00E | ==> | 0.00 | 40.19763000 | -105.04197000 |
| 1500.00 | 0.00 | 0.00 | 1500.00 | 0.00N | 0.00E | ==> | 0.00 | 40.19763000 | -105.04197000 |
| 1517.00 | 0.00 | 332.77 | 1517.00 | 0.00N | 0.00E | ==> | 0.00 | 40.19763000 | -105.04197000 |
| 1617.00 | 2.00 | 332.77 | 1616.98 | 1.55N | 0.80W | 2.00 | -1.51 | 40.19763427 | -105.04197283 |
| 1717.00 | 4.00 | 332.77 | 1716.84 | 6.21N | 3.19W | 2.00 | -6.03 | 40.19764708 | -105.04198131 |
| 1817.00 | 6.00 | 332.77 | 1816.45 | 13.95N | 7.18W | 2.00 | -13.55 | 40.19766841 | -105.04199545 |
| 1917.00 | 8.00 | 332.77 | 1915.70 | 24.79N | 12.76W | 2.00 | -24.08 | 40.19769823 | -105.04201520 |
| 2017.00 | 10.00 | 332.77 | 2014.47 | 38.70N | 19.91W | 2.00 | -37.58 | 40.19773651 | -105.04204057 |
| 2117.00 | 12.00 | 332.77 | 2112.62 | 55.67N | 28.64W | 2.00 | -54.06 | 40.19778321 | -105.04207150 |
| 2205.89 | 13.78 | 332.77 | 2199.27 | 73.30N | 37.71W | 2.00 | -71.18 | 40.19783173 | -105.04210365 |
| 2217.00 | 13.78 | 332.77 | 2210.06 | 75.65N | 38.93W | ==> | -73.47 | 40.19783820 | -105.04210794 |
| 2317.00 | 13.78 | 332.77 | 2307.18 | 96.83N | 49.82W | ==> | -94.03 | 40.19789649 | -105.04214655 |
| 2417.00 | 13.78 | 332.77 | 2404.31 | 118.00N | 60.72W | ==> | -114.60 | 40.19795477 | -105.04218517 |
| 2517.00 | 13.78 | 332.77 | 2501.43 | 139.18N | 71.61W | ==> | -135.16 | 40.19801306 | -105.04222378 |
| 2617.00 | 13.78 | 332.77 | 2598.55 | 160.36N | 82.51W | ==> | -155.73 | 40.19807134 | -105.04226240 |
| 2717.00 | 13.78 | 332.77 | 2695.67 | 181.53N | 93.41W | ==> | -176.29 | 40.19812962 | -105.04230101 |
| 2817.00 | 13.78 | 332.77 | 2792.80 | 202.71N | 104.30W | ==> | -196.86 | 40.19818791 | -105.04233963 |

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 5010.0ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 183.06 degrees
Bottom hole distance is 10465.99 Feet on azimuth 183.06 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by
Date Printed: 14-Jul-2020

SYSDRILL
Well Design Combined Report
Wellbore: W KNIGHT 10 (PWB)



| Interpolated Wellpath | | | | | | | | | |
|-----------------------|----------|----------|---------|-----------|----------|-----------------------|-------------------------|-----------------------------------|------------------------------------|
| MD[ft] | Inc[deg] | Azi[deg] | TVD[ft] | North[ft] | East[ft] | Dogleg [deg/100ft] | Vertical Section[ft] | Station Position (Latitude) | Station Position (Longitude) |
| 2917.00 | 13.78 | 332.77 | 2889.92 | 223.89N | 115.20W | ==> | -217.43 | 40.19824619 | -105.04237824 |
| 3017.00 | 13.78 | 332.77 | 2987.04 | 245.06N | 126.10W | ==> | -237.99 | 40.19830448 | -105.04241686 |
| 3117.00 | 13.78 | 332.77 | 3084.16 | 266.24N | 136.99W | ==> | -258.56 | 40.19836276 | -105.04245547 |
| 3217.00 | 13.78 | 332.77 | 3181.29 | 287.42N | 147.89W | ==> | -279.12 | 40.19842104 | -105.04249409 |
| 3317.00 | 13.78 | 332.77 | 3278.41 | 308.59N | 158.79W | ==> | -299.69 | 40.19847933 | -105.04253270 |
| 3417.00 | 13.78 | 332.77 | 3375.53 | 329.77N | 169.68W | ==> | -320.25 | 40.19853761 | -105.04257132 |
| 3517.00 | 13.78 | 332.77 | 3472.65 | 350.95N | 180.58W | ==> | -340.82 | 40.19859589 | -105.04260993 |
| 3617.00 | 13.78 | 332.77 | 3569.78 | 372.12N | 191.48W | ==> | -361.38 | 40.19865418 | -105.04264855 |
| 3717.00 | 13.78 | 332.77 | 3666.90 | 393.30N | 202.37W | ==> | -381.95 | 40.19871246 | -105.04268717 |
| 3817.00 | 13.78 | 332.77 | 3764.02 | 414.48N | 213.27W | ==> | -402.52 | 40.19877075 | -105.04272578 |
| 3917.00 | 13.78 | 332.77 | 3861.15 | 435.65N | 224.17W | ==> | -423.08 | 40.19882903 | -105.04276440 |
| 4017.00 | 13.78 | 332.77 | 3958.27 | 456.83N | 235.06W | ==> | -443.65 | 40.19888731 | -105.04280301 |
| 4117.00 | 13.78 | 332.77 | 4055.39 | 478.01N | 245.96W | ==> | -464.21 | 40.19894560 | -105.04284163 |
| 4217.00 | 13.78 | 332.77 | 4152.51 | 499.19N | 256.86W | ==> | -484.78 | 40.19900388 | -105.04288024 |
| 4317.00 | 13.78 | 332.77 | 4249.64 | 520.36N | 267.75W | ==> | -505.34 | 40.19906217 | -105.04291886 |
| 4417.00 | 13.78 | 332.77 | 4346.76 | 541.54N | 278.65W | ==> | -525.91 | 40.19912045 | -105.04295748 |
| 4517.00 | 13.78 | 332.77 | 4443.88 | 562.72N | 289.55W | ==> | -546.48 | 40.19917873 | -105.04299609 |
| 4617.00 | 13.78 | 332.77 | 4541.00 | 583.89N | 300.44W | ==> | -567.04 | 40.19923702 | -105.04303471 |
| 4717.00 | 13.78 | 332.77 | 4638.13 | 605.07N | 311.34W | ==> | -587.61 | 40.19929530 | -105.04307333 |
| 4817.00 | 13.78 | 332.77 | 4735.25 | 626.25N | 322.24W | ==> | -608.17 | 40.19935358 | -105.04311194 |
| 4917.00 | 13.78 | 332.77 | 4832.37 | 647.42N | 333.13W | ==> | -628.74 | 40.19941187 | -105.04315056 |
| 5017.00 | 13.78 | 332.77 | 4929.49 | 668.60N | 344.03W | ==> | -649.30 | 40.19947015 | -105.04318917 |
| 5117.00 | 13.78 | 332.77 | 5026.62 | 689.78N | 354.93W | ==> | -669.87 | 40.19952843 | -105.04322779 |
| 5217.00 | 13.78 | 332.77 | 5123.74 | 710.95N | 365.82W | ==> | -690.44 | 40.19958672 | -105.04326641 |
| 5317.00 | 13.78 | 332.77 | 5220.86 | 732.13N | 376.72W | ==> | -711.00 | 40.19964500 | -105.04330502 |
| 5417.00 | 13.78 | 332.77 | 5317.98 | 753.31N | 387.62W | ==> | -731.57 | 40.19970329 | -105.04334364 |
| 5517.00 | 13.78 | 332.77 | 5415.11 | 774.48N | 398.51W | ==> | -752.13 | 40.19976157 | -105.04338226 |
| 5617.00 | 13.78 | 332.77 | 5512.23 | 795.66N | 409.41W | ==> | -772.70 | 40.19981985 | -105.04342087 |
| 5717.00 | 13.78 | 332.77 | 5609.35 | 816.84N | 420.31W | ==> | -793.26 | 40.19987814 | -105.04345949 |
| 5817.00 | 13.78 | 332.77 | 5706.47 | 838.01N | 431.20W | ==> | -813.83 | 40.19993642 | -105.04349811 |
| 5917.00 | 13.78 | 332.77 | 5803.60 | 859.19N | 442.10W | ==> | -834.40 | 40.19999470 | -105.04353673 |
| 6017.00 | 13.78 | 332.77 | 5900.72 | 880.37N | 453.00W | ==> | -854.96 | 40.20005299 | -105.04357534 |
| 6117.00 | 13.78 | 332.77 | 5997.84 | 901.55N | 463.89W | ==> | -875.53 | 40.20011127 | -105.04361396 |
| 6217.00 | 13.78 | 332.77 | 6094.97 | 922.72N | 474.79W | ==> | -896.09 | 40.20016955 | -105.04365258 |
| 6317.00 | 13.78 | 332.77 | 6192.09 | 943.90N | 485.69W | ==> | -916.66 | 40.20022784 | -105.04369119 |
| 6417.00 | 13.78 | 332.77 | 6289.21 | 965.08N | 496.58W | ==> | -937.22 | 40.20028612 | -105.04372981 |
| 6517.00 | 13.78 | 332.77 | 6386.33 | 986.25N | 507.48W | ==> | -957.79 | 40.20034440 | -105.04376843 |
| 6572.07 | 13.78 | 332.77 | 6439.81 | 997.91N | 513.48W | ==> | -969.11 | 40.20037650 | -105.04378969 |
| 6617.00 | 10.02 | 320.67 | 6483.78 | 1005.70N | 518.41W | 10.00 | -976.63 | 40.20039794 | -105.04380719 |
| 6717.00 | 6.75 | 250.33 | 6582.93 | 1010.46N | 529.48W | 10.00 | -980.79 | 40.20041116 | -105.04384675 |
| 6817.00 | 13.78 | 206.89 | 6681.39 | 997.83N | 540.43W | 10.00 | -967.59 | 40.20037664 | -105.04388618 |
| 6917.00 | 23.10 | 195.00 | 6776.18 | 968.18N | 550.93W | 10.00 | -937.43 | 40.20029541 | -105.04392429 |
| 7017.00 | 32.81 | 189.81 | 6864.42 | 922.42N | 560.64W | 10.00 | -891.22 | 40.20016995 | -105.04395992 |
| 7117.00 | 42.64 | 186.80 | 6943.43 | 861.95N | 569.29W | 10.00 | -830.37 | 40.20000407 | -105.04399197 |
| 7217.00 | 52.52 | 184.75 | 7010.81 | 788.59N | 576.60W | 10.00 | -756.72 | 40.19980280 | -105.04401949 |
| 7317.00 | 62.44 | 183.18 | 7064.51 | 704.58N | 582.35W | 10.00 | -672.52 | 40.19957227 | -105.04404163 |
| 7417.00 | 72.36 | 181.87 | 7102.89 | 612.46N | 586.37W | 10.00 | -580.32 | 40.19931948 | -105.04405773 |
| 7517.00 | 82.30 | 180.70 | 7124.80 | 515.04N | 588.54W | 10.00 | -482.93 | 40.19905210 | -105.04406728 |
| 7594.51 | 90.00 | 179.84 | 7130.00 | 437.77N | 588.90W | 10.00 | -405.75 | 40.19884000 | -105.04407000 |
| 7617.00 | 90.00 | 179.84 | 7130.00 | 415.28N | 588.84W | ==> | -383.29 | 40.19877825 | -105.04407019 |
| 7717.00 | 90.00 | 179.84 | 7130.00 | 315.28N | 588.56W | ==> | -283.45 | 40.19850376 | -105.04407101 |
| 7817.00 | 90.00 | 179.84 | 7130.00 | 215.28N | 588.27W | ==> | -183.61 | 40.19822926 | -105.04407184 |
| 7917.00 | 90.00 | 179.84 | 7130.00 | 115.28N | 587.99W | ==> | -83.76 | 40.19795476 | -105.04407267 |
| 8017.00 | 90.00 | 179.84 | 7130.00 | 15.28N | 587.71W | ==> | 16.08 | 40.19768026 | -105.04407349 |
| 8117.00 | 90.00 | 179.84 | 7130.00 | 84.72S | 587.42W | ==> | 115.92 | 40.19740576 | -105.04407432 |
| 8217.00 | 90.00 | 179.84 | 7130.00 | 184.72S | 587.14W | ==> | 215.76 | 40.19713126 | -105.04407515 |
| 8317.00 | 90.00 | 179.84 | 7130.00 | 284.72S | 586.86W | ==> | 315.61 | 40.19685676 | -105.04407597 |
| 8417.00 | 90.00 | 179.84 | 7130.00 | 384.72S | 586.57W | ==> | 415.45 | 40.19658226 | -105.04407680 |

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 5010.0ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 183.06 degrees
Bottom hole distance is 10465.99 Feet on azimuth 183.06 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by
Date Printed: 14-Jul-2020

SYSDRILL
Well Design Combined Report
Wellbore: W KNIGHT 10 (PWB)



| Interpolated Wellpath | | | | | | | | | |
|-----------------------|----------|----------|---------|-----------|----------|-----------------------|-------------------------|-----------------------------------|------------------------------------|
| MD[ft] | Inc[deg] | Azi[deg] | TVD[ft] | North[ft] | East[ft] | Dogleg [deg/100ft] | Vertical Section[ft] | Station Position (Latitude) | Station Position (Longitude) |
| 8517.00 | 90.00 | 179.84 | 7130.00 | 484.72S | 586.29W | ==> | 515.29 | 40.19630776 | -105.04407763 |
| 8617.00 | 90.00 | 179.84 | 7130.00 | 584.72S | 586.01W | ==> | 615.13 | 40.19603327 | -105.04407845 |
| 8717.00 | 90.00 | 179.84 | 7130.00 | 684.72S | 585.72W | ==> | 714.97 | 40.19575877 | -105.04407928 |
| 8817.00 | 90.00 | 179.84 | 7130.00 | 784.72S | 585.44W | ==> | 814.82 | 40.19548427 | -105.04408011 |
| 8917.00 | 90.00 | 179.84 | 7130.00 | 884.72S | 585.16W | ==> | 914.66 | 40.19520977 | -105.04408094 |
| 9017.00 | 90.00 | 179.84 | 7130.00 | 984.72S | 584.87W | ==> | 1014.50 | 40.19493527 | -105.04408176 |
| 9117.00 | 90.00 | 179.84 | 7130.00 | 1084.71S | 584.59W | ==> | 1114.34 | 40.19466077 | -105.04408259 |
| 9217.00 | 90.00 | 179.84 | 7130.00 | 1184.71S | 584.31W | ==> | 1214.19 | 40.19438627 | -105.04408342 |
| 9317.00 | 90.00 | 179.84 | 7130.00 | 1284.71S | 584.02W | ==> | 1314.03 | 40.19411177 | -105.04408424 |
| 9417.00 | 90.00 | 179.84 | 7130.00 | 1384.71S | 583.74W | ==> | 1413.87 | 40.19383727 | -105.04408507 |
| 9517.00 | 90.00 | 179.84 | 7130.00 | 1484.71S | 583.46W | ==> | 1513.71 | 40.19356278 | -105.04408590 |
| 9617.00 | 90.00 | 179.84 | 7130.00 | 1584.71S | 583.18W | ==> | 1613.55 | 40.19328828 | -105.04408672 |
| 9717.00 | 90.00 | 179.84 | 7130.00 | 1684.71S | 582.89W | ==> | 1713.40 | 40.19301378 | -105.04408755 |
| 9817.00 | 90.00 | 179.84 | 7130.00 | 1784.71S | 582.61W | ==> | 1813.24 | 40.19273928 | -105.04408838 |
| 9917.00 | 90.00 | 179.84 | 7130.00 | 1884.71S | 582.33W | ==> | 1913.08 | 40.19246478 | -105.04408920 |
| 10017.00 | 90.00 | 179.84 | 7130.00 | 1984.71S | 582.04W | ==> | 2012.92 | 40.19219028 | -105.04409003 |
| 10117.00 | 90.00 | 179.84 | 7130.00 | 2084.71S | 581.76W | ==> | 2112.77 | 40.19191578 | -105.04409086 |
| 10217.00 | 90.00 | 179.84 | 7130.00 | 2184.71S | 581.48W | ==> | 2212.61 | 40.19164128 | -105.04409168 |
| 10317.00 | 90.00 | 179.84 | 7130.00 | 2284.71S | 581.19W | ==> | 2312.45 | 40.19136678 | -105.04409251 |
| 10417.00 | 90.00 | 179.84 | 7130.00 | 2384.71S | 580.91W | ==> | 2412.29 | 40.19109228 | -105.04409334 |
| 10517.00 | 90.00 | 179.84 | 7130.00 | 2484.71S | 580.63W | ==> | 2512.13 | 40.19081778 | -105.04409416 |
| 10617.00 | 90.00 | 179.84 | 7130.00 | 2584.71S | 580.34W | ==> | 2611.98 | 40.19054329 | -105.04409499 |
| 10717.00 | 90.00 | 179.84 | 7130.00 | 2684.71S | 580.06W | ==> | 2711.82 | 40.19026879 | -105.04409582 |
| 10817.00 | 90.00 | 179.84 | 7130.00 | 2784.71S | 579.78W | ==> | 2811.66 | 40.18999429 | -105.04409664 |
| 10917.00 | 90.00 | 179.84 | 7130.00 | 2884.71S | 579.49W | ==> | 2911.50 | 40.18971979 | -105.04409747 |
| 11017.00 | 90.00 | 179.84 | 7130.00 | 2984.71S | 579.21W | ==> | 3011.35 | 40.18944529 | -105.04409830 |
| 11117.00 | 90.00 | 179.84 | 7130.00 | 3084.71S | 578.93W | ==> | 3111.19 | 40.18917079 | -105.04409912 |
| 11217.00 | 90.00 | 179.84 | 7130.00 | 3184.71S | 578.64W | ==> | 3211.03 | 40.18889629 | -105.04409995 |
| 11317.00 | 90.00 | 179.84 | 7130.00 | 3284.71S | 578.36W | ==> | 3310.87 | 40.18862179 | -105.04410078 |
| 11417.00 | 90.00 | 179.84 | 7130.00 | 3384.71S | 578.08W | ==> | 3410.71 | 40.18834729 | -105.04410160 |
| 11517.00 | 90.00 | 179.84 | 7130.00 | 3484.71S | 577.80W | ==> | 3510.56 | 40.18807279 | -105.04410243 |
| 11617.00 | 90.00 | 179.84 | 7130.00 | 3584.70S | 577.51W | ==> | 3610.40 | 40.18779829 | -105.04410326 |
| 11717.00 | 90.00 | 179.84 | 7130.00 | 3684.70S | 577.23W | ==> | 3710.24 | 40.18752379 | -105.04410408 |
| 11817.00 | 90.00 | 179.84 | 7130.00 | 3784.70S | 576.95W | ==> | 3810.08 | 40.18724930 | -105.04410491 |
| 11917.00 | 90.00 | 179.84 | 7130.00 | 3884.70S | 576.66W | ==> | 3909.93 | 40.18697480 | -105.04410574 |
| 12017.00 | 90.00 | 179.84 | 7130.00 | 3984.70S | 576.38W | ==> | 4009.77 | 40.18670030 | -105.04410656 |
| 12117.00 | 90.00 | 179.84 | 7130.00 | 4084.70S | 576.10W | ==> | 4109.61 | 40.18642580 | -105.04410739 |
| 12217.00 | 90.00 | 179.84 | 7130.00 | 4184.70S | 575.81W | ==> | 4209.45 | 40.18615130 | -105.04410822 |
| 12317.00 | 90.00 | 179.84 | 7130.00 | 4284.70S | 575.53W | ==> | 4309.29 | 40.18587680 | -105.04410904 |
| 12417.00 | 90.00 | 179.84 | 7130.00 | 4384.70S | 575.25W | ==> | 4409.14 | 40.18560230 | -105.04410987 |
| 12517.00 | 90.00 | 179.84 | 7130.00 | 4484.70S | 574.96W | ==> | 4508.98 | 40.18532780 | -105.04411070 |
| 12617.00 | 90.00 | 179.84 | 7130.00 | 4584.70S | 574.68W | ==> | 4608.82 | 40.18505330 | -105.04411152 |
| 12717.00 | 90.00 | 179.84 | 7130.00 | 4684.70S | 574.40W | ==> | 4708.66 | 40.18477880 | -105.04411235 |
| 12817.00 | 90.00 | 179.84 | 7130.00 | 4784.70S | 574.11W | ==> | 4808.51 | 40.18450430 | -105.04411318 |
| 12917.00 | 90.00 | 179.84 | 7130.00 | 4884.70S | 573.83W | ==> | 4908.35 | 40.18422980 | -105.04411400 |
| 13017.00 | 90.00 | 179.84 | 7130.00 | 4984.70S | 573.55W | ==> | 5008.19 | 40.18395530 | -105.04411483 |
| 13117.00 | 90.00 | 179.84 | 7130.00 | 5084.70S | 573.26W | ==> | 5108.03 | 40.18368080 | -105.04411565 |
| 13217.00 | 90.00 | 179.84 | 7130.00 | 5184.70S | 572.98W | ==> | 5207.88 | 40.18340630 | -105.04411648 |
| 13317.00 | 90.00 | 179.84 | 7130.00 | 5284.70S | 572.70W | ==> | 5307.72 | 40.18313181 | -105.04411731 |
| 13417.00 | 90.00 | 179.84 | 7130.00 | 5384.70S | 572.42W | ==> | 5407.56 | 40.18285731 | -105.04411813 |
| 13517.00 | 90.00 | 179.84 | 7130.00 | 5484.70S | 572.13W | ==> | 5507.40 | 40.18258281 | -105.04411896 |
| 13617.00 | 90.00 | 179.84 | 7130.00 | 5584.70S | 571.85W | ==> | 5607.24 | 40.18230831 | -105.04411979 |
| 13717.00 | 90.00 | 179.84 | 7130.00 | 5684.70S | 571.57W | ==> | 5707.09 | 40.18203381 | -105.04412061 |
| 13817.00 | 90.00 | 179.84 | 7130.00 | 5784.70S | 571.28W | ==> | 5806.93 | 40.18175931 | -105.04412144 |
| 13917.00 | 90.00 | 179.84 | 7130.00 | 5884.70S | 571.00W | ==> | 5906.77 | 40.18148481 | -105.04412227 |
| 14017.00 | 90.00 | 179.84 | 7130.00 | 5984.70S | 570.72W | ==> | 6006.61 | 40.18121031 | -105.04412309 |
| 14117.00 | 90.00 | 179.84 | 7130.00 | 6084.69S | 570.43W | ==> | 6106.46 | 40.18093581 | -105.04412392 |
| 14217.00 | 90.00 | 179.84 | 7130.00 | 6184.69S | 570.15W | ==> | 6206.30 | 40.18066131 | -105.04412475 |
| 14317.00 | 90.00 | 179.84 | 7130.00 | 6284.69S | 569.87W | ==> | 6306.14 | 40.18038681 | -105.04412557 |

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Vertical Section is from 0.00N 0.00E on azimuth 183.06 degrees
Bottom hole distance is 10465.99 Feet on azimuth 183.06 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by
Date Printed: 14-Jul-2020

SYSDRILL
Well Design Combined Report
Wellbore: W KNIGHT 10 (PWB)



| Interpolated Wellpath | | | | | | | | | |
|-----------------------|----------|----------|---------|-----------|----------|-----------------------|-------------------------|-----------------------------------|------------------------------------|
| MD[ft] | Inc[deg] | Azi[deg] | TVD[ft] | North[ft] | East[ft] | Dogleg [deg/100ft] | Vertical Section[ft] | Station Position (Latitude) | Station Position (Longitude) |
| 14417.00 | 90.00 | 179.84 | 7130.00 | 6384.69S | 569.58W | ==> | 6405.98 | 40.18011231 | -105.04412640 |
| 14517.00 | 90.00 | 179.84 | 7130.00 | 6484.69S | 569.30W | ==> | 6505.82 | 40.17983781 | -105.04412723 |
| 14617.00 | 90.00 | 179.84 | 7130.00 | 6584.69S | 569.02W | ==> | 6605.67 | 40.17956331 | -105.04412805 |
| 14717.00 | 90.00 | 179.84 | 7130.00 | 6684.69S | 568.73W | ==> | 6705.51 | 40.17928881 | -105.04412888 |
| 14817.00 | 90.00 | 179.84 | 7130.00 | 6784.69S | 568.45W | ==> | 6805.35 | 40.17901431 | -105.04412970 |
| 14917.00 | 90.00 | 179.84 | 7130.00 | 6884.69S | 568.17W | ==> | 6905.19 | 40.17873981 | -105.04413053 |
| 15017.00 | 90.00 | 179.84 | 7130.00 | 6984.69S | 567.88W | ==> | 7005.04 | 40.17846531 | -105.04413136 |
| 15117.00 | 90.00 | 179.84 | 7130.00 | 7084.69S | 567.60W | ==> | 7104.88 | 40.17819081 | -105.04413218 |
| 15217.00 | 90.00 | 179.84 | 7130.00 | 7184.69S | 567.32W | ==> | 7204.72 | 40.17791631 | -105.04413301 |
| 15317.00 | 90.00 | 179.84 | 7130.00 | 7284.69S | 567.03W | ==> | 7304.56 | 40.17764181 | -105.04413384 |
| 15417.00 | 90.00 | 179.84 | 7130.00 | 7384.69S | 566.75W | ==> | 7404.40 | 40.17736731 | -105.04413466 |
| 15517.00 | 90.00 | 179.84 | 7130.00 | 7484.69S | 566.47W | ==> | 7504.25 | 40.17709281 | -105.04413549 |
| 15617.00 | 90.00 | 179.84 | 7130.00 | 7584.69S | 566.19W | ==> | 7604.09 | 40.17681831 | -105.04413632 |
| 15717.00 | 90.00 | 179.84 | 7130.00 | 7684.69S | 565.90W | ==> | 7703.93 | 40.17654382 | -105.04413714 |
| 15817.00 | 90.00 | 179.84 | 7130.00 | 7784.69S | 565.62W | ==> | 7803.77 | 40.17626932 | -105.04413797 |
| 15917.00 | 90.00 | 179.84 | 7130.00 | 7884.69S | 565.34W | ==> | 7903.62 | 40.17599482 | -105.04413879 |
| 16017.00 | 90.00 | 179.84 | 7130.00 | 7984.69S | 565.05W | ==> | 8003.46 | 40.17572032 | -105.04413962 |
| 16117.00 | 90.00 | 179.84 | 7130.00 | 8084.69S | 564.77W | ==> | 8103.30 | 40.17544582 | -105.04414045 |
| 16217.00 | 90.00 | 179.84 | 7130.00 | 8184.69S | 564.49W | ==> | 8203.14 | 40.17517132 | -105.04414127 |
| 16317.00 | 90.00 | 179.84 | 7130.00 | 8284.69S | 564.20W | ==> | 8302.98 | 40.17489682 | -105.04414210 |
| 16417.00 | 90.00 | 179.84 | 7130.00 | 8384.69S | 563.92W | ==> | 8402.83 | 40.17462232 | -105.04414293 |
| 16517.00 | 90.00 | 179.84 | 7130.00 | 8484.69S | 563.64W | ==> | 8502.67 | 40.17434782 | -105.04414375 |
| 16617.00 | 90.00 | 179.84 | 7130.00 | 8584.68S | 563.35W | ==> | 8602.51 | 40.17407332 | -105.04414458 |
| 16717.00 | 90.00 | 179.84 | 7130.00 | 8684.68S | 563.07W | ==> | 8702.35 | 40.17379882 | -105.04414541 |
| 16817.00 | 90.00 | 179.84 | 7130.00 | 8784.68S | 562.79W | ==> | 8802.20 | 40.17352432 | -105.04414623 |
| 16917.00 | 90.00 | 179.84 | 7130.00 | 8884.68S | 562.50W | ==> | 8902.04 | 40.17324982 | -105.04414706 |
| 17017.00 | 90.00 | 179.84 | 7130.00 | 8984.68S | 562.22W | ==> | 9001.88 | 40.17297532 | -105.04414788 |
| 17117.00 | 90.00 | 179.84 | 7130.00 | 9084.68S | 561.94W | ==> | 9101.72 | 40.17270082 | -105.04414871 |
| 17217.00 | 90.00 | 179.84 | 7130.00 | 9184.68S | 561.65W | ==> | 9201.56 | 40.17242632 | -105.04414954 |
| 17317.00 | 90.00 | 179.84 | 7130.00 | 9284.68S | 561.37W | ==> | 9301.41 | 40.17215182 | -105.04415036 |
| 17417.00 | 90.00 | 179.84 | 7130.00 | 9384.68S | 561.09W | ==> | 9401.25 | 40.17187732 | -105.04415119 |
| 17517.00 | 90.00 | 179.84 | 7130.00 | 9484.68S | 560.81W | ==> | 9501.09 | 40.17160282 | -105.04415202 |
| 17617.00 | 90.00 | 179.84 | 7130.00 | 9584.68S | 560.52W | ==> | 9600.93 | 40.17132832 | -105.04415284 |
| 17717.00 | 90.00 | 179.84 | 7130.00 | 9684.68S | 560.24W | ==> | 9700.78 | 40.17105382 | -105.04415367 |
| 17817.00 | 90.00 | 179.84 | 7130.00 | 9784.68S | 559.96W | ==> | 9800.62 | 40.17077932 | -105.04415449 |
| 17917.00 | 90.00 | 179.84 | 7130.00 | 9884.68S | 559.67W | ==> | 9900.46 | 40.17050482 | -105.04415532 |
| 18017.00 | 90.00 | 179.84 | 7130.00 | 9984.68S | 559.39W | ==> | 10000.30 | 40.17023032 | -105.04415615 |
| 18117.00 | 90.00 | 179.84 | 7130.00 | 10084.68S | 559.11W | ==> | 10100.14 | 40.16995582 | -105.04415697 |
| 18217.00 | 90.00 | 179.84 | 7130.00 | 10184.68S | 558.82W | ==> | 10199.99 | 40.16968132 | -105.04415780 |
| 18317.00 | 90.00 | 179.84 | 7130.00 | 10284.68S | 558.54W | ==> | 10299.83 | 40.16940682 | -105.04415863 |
| 18417.00 | 90.00 | 179.84 | 7130.00 | 10384.68S | 558.26W | ==> | 10399.67 | 40.16913232 | -105.04415945 |
| 18483.42 | 90.00 | 179.84 | 7130.00 | 10451.10S | 558.07W | ==> | 10465.99 | 40.16895000 | -105.04416000 |

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Bottom hole distance is 10465.99 Feet on azimuth 183.06 degrees from Wellhead
Calculation method uses Minimum Curvature method
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