

Cub Creek Energy, LLC

Location	Weld County, CO	Slot	KNIGHT 8
Field	WATTENBERG	Well	W KNIGHT 8
Installation	Knight Pad	Wellbore	W KNIGHT 8 (PWB)

N

GRID

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	355.04	1517.00	S 0.00	W 0.00	0.00	-0.00
End of Build	2108.13	11.82	355.04	2103.95	N 60.54	W 5.26	2.00	-60.51
End of Hold	6538.34	11.82	355.04	6440.17	N 964.81	W 83.79	0.00	-964.29
Target Knight 8 EP	7556.14	90.00	179.84	7130.00	N 403.89	W 94.27	10.00	-403.31
T.D. & Target Kni... BH	18434.13	90.00	179.84	7130.00	S 10474.05	W 63.28	0.00	10474.24

<- West (Feet) : East (Feet) ->

-800 0 800
Scale 1 cm = 400 ft

Knight 8 EP

Surface 0.00 N 0.00 E

1600

800

0

-800

-1600

-2400

-3200

-4000

-4800

-5600

-6400

-7200

-8000

-8800

-9600

-10400

-11200

<- North (Feet)
Scale 1 cm = 400 ft

<- True Vertical Depth (Feet)
Scale 1 cm = 400 ft

Tie on - 0.00 Inc, 17.00 MD, 17.00 TVD, -0.00 VS

3DS Kick off Point - 0.00 Inc, 1517.00 MD, 1517.00 TVD, -0.00 VS

End of Build - 11.82 Inc, 2108.13 MD, 2103.95 TVD, -60.51 VS

End of Hold - 11.82 Inc, 6538.34 MD, 6440.17 TVD, -964.29 VS

Knight 8 EP

S/C Kick off Point - 90.00 Inc, 7556.14 MD, 7130.00 TVD, -403.31 VS

Knight 8 BH

Knight 8 BH

T.D. & End of Hold - 7130.00 TVD, 10474.05 S 63.28 W

Scale 1 cm = 400 ft

Vertical Section (Feet) ->

Azimuth 180.35 with reference 0.00 N, 0.00 E from KNIGHT 8

Nov-6-2017
EMM-2015 (2000.0-2020.0) Dip: 68.59 deg Field: 52154.0 nT
Lat: N40 11 52.8440 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 admin
Date plotted 6-Nov-2017
Plot reference is W KNIGHT 8 (PWB).
Ref wellpath is W KNIGHT 8 (PWP#1).
Coordinates are in Feet reference KNIGHT 8.
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.



SYSDRILL
Well Design Combined Report
Wellbore: W KNIGHT 8 (PWB)



Wellhead Details

Name	Latitude	Longitude	Northing	Easting	North	East	Slot Elevation Above Ground
KNIGHT 8	40.19775000	-105.04197000	1315213.2616	3127946.0946	105.65S	0.55E	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	1315213.26	3127946.09
1517.00	0.00	355.040	1517.00	0.00N	0.00E	==>	0.00	1315213.26	3127946.09
2108.13	11.82	355.040	2103.95	60.54N	5.26W	2.00	-60.51	1315273.80	3127940.84
6538.34	11.82	355.040	6440.17	964.81N	83.79W	==>	-964.29	1316178.03	3127862.31
7556.14	90.00	179.840	7130.00	403.89N	94.27W	10.00	-403.31	1315617.13	3127851.83
18434.13	90.00	179.840	7130.00	10474.05S	63.28W	==>	10474.24	1304739.68	3127882.82

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	1.66	355.040	1599.99	1.20N	0.10W	2.00	-1.20	
1700.00	3.66	355.040	1699.88	5.82N	0.51W	2.00	-5.82	
1800.00	5.66	355.040	1799.54	13.91N	1.21W	2.00	-13.91	
1900.00	7.66	355.040	1898.86	25.47N	2.21W	2.00	-25.45	
2000.00	9.66	355.040	1997.71	40.47N	3.51W	2.00	-40.45	
2100.00	11.66	355.040	2095.98	58.90N	5.11W	2.00	-58.86	
2200.00	11.82	355.040	2193.87	79.30N	6.89W	==>	-79.25	
2300.00	11.82	355.040	2291.74	99.71N	8.66W	==>	-99.65	
2400.00	11.82	355.040	2389.62	120.12N	10.43W	==>	-120.05	
2500.00	11.82	355.040	2487.50	140.53N	12.20W	==>	-140.45	
2600.00	11.82	355.040	2585.38	160.94N	13.98W	==>	-160.85	
2700.00	11.82	355.040	2683.26	181.35N	15.75W	==>	-181.25	
2800.00	11.82	355.040	2781.14	201.76N	17.52W	==>	-201.65	
2900.00	11.82	355.040	2879.02	222.18N	19.29W	==>	-222.06	
3000.00	11.82	355.040	2976.89	242.59N	21.07W	==>	-242.46	
3100.00	11.82	355.040	3074.77	263.00N	22.84W	==>	-262.86	

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 180.350 degrees
Bottom hole distance is 10474.24 Feet on azimuth 180.35 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 8 (PWB)



Interpolated Wellpath								
MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	All Station Comments
3200.00	11.82	355.040	3172.65	283.41N	24.61W	==>	-283.26	
3300.00	11.82	355.040	3270.53	303.82N	26.38W	==>	-303.66	
3400.00	11.82	355.040	3368.41	324.23N	28.16W	==>	-324.06	
3500.00	11.82	355.040	3466.29	344.64N	29.93W	==>	-344.46	
3600.00	11.82	355.040	3564.17	365.06N	31.70W	==>	-364.86	
3700.00	11.82	355.040	3662.05	385.47N	33.48W	==>	-385.26	
3800.00	11.82	355.040	3759.92	405.88N	35.25W	==>	-405.66	
3900.00	11.82	355.040	3857.80	426.29N	37.02W	==>	-426.06	
4000.00	11.82	355.040	3955.68	446.70N	38.79W	==>	-446.46	
4100.00	11.82	355.040	4053.56	467.11N	40.57W	==>	-466.86	
4200.00	11.82	355.040	4151.44	487.52N	42.34W	==>	-487.26	
4300.00	11.82	355.040	4249.32	507.94N	44.11W	==>	-507.66	
4400.00	11.82	355.040	4347.20	528.35N	45.88W	==>	-528.06	
4500.00	11.82	355.040	4445.07	548.76N	47.66W	==>	-548.46	
4600.00	11.82	355.040	4542.95	569.17N	49.43W	==>	-568.86	
4700.00	11.82	355.040	4640.83	589.58N	51.20W	==>	-589.26	
4800.00	11.82	355.040	4738.71	609.99N	52.97W	==>	-609.66	
4900.00	11.82	355.040	4836.59	630.40N	54.75W	==>	-630.06	
5000.00	11.82	355.040	4934.47	650.82N	56.52W	==>	-650.46	
5100.00	11.82	355.040	5032.35	671.23N	58.29W	==>	-670.86	
5200.00	11.82	355.040	5130.22	691.64N	60.06W	==>	-691.26	
5300.00	11.82	355.040	5228.10	712.05N	61.84W	==>	-711.66	
5400.00	11.82	355.040	5325.98	732.46N	63.61W	==>	-732.06	
5500.00	11.82	355.040	5423.86	752.87N	65.38W	==>	-752.46	
5600.00	11.82	355.040	5521.74	773.28N	67.15W	==>	-772.86	
5700.00	11.82	355.040	5619.62	793.70N	68.93W	==>	-793.27	
5800.00	11.82	355.040	5717.50	814.11N	70.70W	==>	-813.67	
5900.00	11.82	355.040	5815.38	834.52N	72.47W	==>	-834.07	
6000.00	11.82	355.040	5913.25	854.93N	74.25W	==>	-854.47	
6100.00	11.82	355.040	6011.13	875.34N	76.02W	==>	-874.87	
6200.00	11.82	355.040	6109.01	895.75N	77.79W	==>	-895.27	
6300.00	11.82	355.040	6206.89	916.16N	79.56W	==>	-915.67	
6400.00	11.82	355.040	6304.77	936.58N	81.34W	==>	-936.07	
6500.00	11.82	355.040	6402.65	956.99N	83.11W	==>	-956.47	
6600.00	5.70	349.730	6501.09	974.13N	84.88W	10.00	-973.60	
6700.00	4.50	192.700	6600.94	975.20N	86.63W	10.00	-974.65	
6800.00	14.42	183.740	6699.46	958.90N	88.31W	10.00	-958.35	
6900.00	24.41	182.050	6793.66	925.75N	89.87W	10.00	-925.19	
7000.00	34.40	181.300	6880.67	876.74N	91.25W	10.00	-876.17	
7100.00	44.39	180.860	6957.84	813.36N	92.42W	10.00	-812.79	
7200.00	54.39	180.560	7022.85	737.54N	93.35W	10.00	-736.96	
7300.00	64.39	180.320	7073.70	651.59N	93.99W	10.00	-651.01	
7400.00	74.39	180.120	7108.86	558.11N	94.34W	10.00	-557.53	
7500.00	84.39	179.940	7127.25	459.94N	94.38W	10.00	-459.36	
7600.00	90.00	179.840	7130.00	360.03N	94.15W	==>	-359.46	
7700.00	90.00	179.840	7130.00	260.03N	93.86W	==>	-259.46	
7800.00	90.00	179.840	7130.00	160.03N	93.58W	==>	-159.47	
7900.00	90.00	179.840	7130.00	60.03N	93.29W	==>	-59.47	
8000.00	90.00	179.840	7130.00	39.97S	93.01W	==>	40.53	
8100.00	90.00	179.840	7130.00	139.96S	92.72W	==>	140.52	
8200.00	90.00	179.840	7130.00	239.96S	92.44W	==>	240.52	
8300.00	90.00	179.840	7130.00	339.96S	92.15W	==>	340.51	
8400.00	90.00	179.840	7130.00	439.96S	91.87W	==>	440.51	
8500.00	90.00	179.840	7130.00	539.96S	91.58W	==>	540.51	
8600.00	90.00	179.840	7130.00	639.96S	91.30W	==>	640.50	
8700.00	90.00	179.840	7130.00	739.96S	91.01W	==>	740.50	
8800.00	90.00	179.840	7130.00	839.96S	90.73W	==>	840.49	
8900.00	90.00	179.840	7130.00	939.96S	90.44W	==>	940.49	
9000.00	90.00	179.840	7130.00	1039.96S	90.16W	==>	1040.49	

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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 180.350 degrees
Bottom hole distance is 10474.24 Feet on azimuth 180.35 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 8 (PWB)



Interpolated Wellpath								
MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	All Station Comments
9100.00	90.00	179.840	7130.00	1139.96S	89.87W	==>	1140.48	
9200.00	90.00	179.840	7130.00	1239.96S	89.59W	==>	1240.48	
9300.00	90.00	179.840	7130.00	1339.96S	89.30W	==>	1340.47	
9400.00	90.00	179.840	7130.00	1439.96S	89.02W	==>	1440.47	
9500.00	90.00	179.840	7130.00	1539.96S	88.73W	==>	1540.47	
9600.00	90.00	179.840	7130.00	1639.96S	88.45W	==>	1640.46	
9700.00	90.00	179.840	7130.00	1739.96S	88.16W	==>	1740.46	
9800.00	90.00	179.840	7130.00	1839.96S	87.88W	==>	1840.46	
9900.00	90.00	179.840	7130.00	1939.96S	87.59W	==>	1940.45	
10000.00	90.00	179.840	7130.00	2039.96S	87.31W	==>	2040.45	
10100.00	90.00	179.840	7130.00	2139.96S	87.02W	==>	2140.44	
10200.00	90.00	179.840	7130.00	2239.96S	86.74W	==>	2240.44	
10300.00	90.00	179.840	7130.00	2339.96S	86.45W	==>	2340.44	
10400.00	90.00	179.840	7130.00	2439.96S	86.17W	==>	2440.43	
10500.00	90.00	179.840	7130.00	2539.96S	85.88W	==>	2540.43	
10600.00	90.00	179.840	7130.00	2639.95S	85.60W	==>	2640.42	
10700.00	90.00	179.840	7130.00	2739.95S	85.31W	==>	2740.42	
10800.00	90.00	179.840	7130.00	2839.95S	85.03W	==>	2840.42	
10900.00	90.00	179.840	7130.00	2939.95S	84.74W	==>	2940.41	
11000.00	90.00	179.840	7130.00	3039.95S	84.46W	==>	3040.41	
11100.00	90.00	179.840	7130.00	3139.95S	84.18W	==>	3140.40	
11200.00	90.00	179.840	7130.00	3239.95S	83.89W	==>	3240.40	
11300.00	90.00	179.840	7130.00	3339.95S	83.61W	==>	3340.40	
11400.00	90.00	179.840	7130.00	3439.95S	83.32W	==>	3440.39	
11500.00	90.00	179.840	7130.00	3539.95S	83.04W	==>	3540.39	
11600.00	90.00	179.840	7130.00	3639.95S	82.75W	==>	3640.38	
11700.00	90.00	179.840	7130.00	3739.95S	82.47W	==>	3740.38	
11800.00	90.00	179.840	7130.00	3839.95S	82.18W	==>	3840.38	
11900.00	90.00	179.840	7130.00	3939.95S	81.90W	==>	3940.37	
12000.00	90.00	179.840	7130.00	4039.95S	81.61W	==>	4040.37	
12100.00	90.00	179.840	7130.00	4139.95S	81.33W	==>	4140.36	
12200.00	90.00	179.840	7130.00	4239.95S	81.04W	==>	4240.36	
12300.00	90.00	179.840	7130.00	4339.95S	80.76W	==>	4340.36	
12400.00	90.00	179.840	7130.00	4439.95S	80.47W	==>	4440.35	
12500.00	90.00	179.840	7130.00	4539.95S	80.19W	==>	4540.35	
12600.00	90.00	179.840	7130.00	4639.95S	79.90W	==>	4640.34	
12700.00	90.00	179.840	7130.00	4739.95S	79.62W	==>	4740.34	
12800.00	90.00	179.840	7130.00	4839.95S	79.33W	==>	4840.34	
12900.00	90.00	179.840	7130.00	4939.95S	79.05W	==>	4940.33	
13000.00	90.00	179.840	7130.00	5039.94S	78.76W	==>	5040.33	
13100.00	90.00	179.840	7130.00	5139.94S	78.48W	==>	5140.32	
13200.00	90.00	179.840	7130.00	5239.94S	78.19W	==>	5240.32	
13300.00	90.00	179.840	7130.00	5339.94S	77.91W	==>	5340.32	
13400.00	90.00	179.840	7130.00	5439.94S	77.62W	==>	5440.31	
13500.00	90.00	179.840	7130.00	5539.94S	77.34W	==>	5540.31	
13600.00	90.00	179.840	7130.00	5639.94S	77.05W	==>	5640.31	
13700.00	90.00	179.840	7130.00	5739.94S	76.77W	==>	5740.30	
13800.00	90.00	179.840	7130.00	5839.94S	76.48W	==>	5840.30	
13900.00	90.00	179.840	7130.00	5939.94S	76.20W	==>	5940.29	
14000.00	90.00	179.840	7130.00	6039.94S	75.91W	==>	6040.29	
14100.00	90.00	179.840	7130.00	6139.94S	75.63W	==>	6140.29	
14200.00	90.00	179.840	7130.00	6239.94S	75.34W	==>	6240.28	
14300.00	90.00	179.840	7130.00	6339.94S	75.06W	==>	6340.28	
14400.00	90.00	179.840	7130.00	6439.94S	74.77W	==>	6440.27	
14500.00	90.00	179.840	7130.00	6539.94S	74.49W	==>	6540.27	
14600.00	90.00	179.840	7130.00	6639.94S	74.20W	==>	6640.27	
14700.00	90.00	179.840	7130.00	6739.94S	73.92W	==>	6740.26	
14800.00	90.00	179.840	7130.00	6839.94S	73.63W	==>	6840.26	
14900.00	90.00	179.840	7130.00	6939.94S	73.35W	==>	6940.25	

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Vertical Section is from 0.00N 0.00E on azimuth 180.350 degrees
Bottom hole distance is 10474.24 Feet on azimuth 180.35 degrees from Wellhead
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Well Design Combined Report
Wellbore: W KNIGHT 8 (PWB)



Interpolated Wellpath								
MD[ft]	Inc[deg]	Azi[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	All Station Comments
15000.00	90.00	179.840	7130.00	7039.94S	73.06W	==>	7040.25	
15100.00	90.00	179.840	7130.00	7139.94S	72.78W	==>	7140.25	
15200.00	90.00	179.840	7130.00	7239.94S	72.49W	==>	7240.24	
15300.00	90.00	179.840	7130.00	7339.94S	72.21W	==>	7340.24	
15400.00	90.00	179.840	7130.00	7439.94S	71.92W	==>	7440.23	
15500.00	90.00	179.840	7130.00	7539.93S	71.64W	==>	7540.23	
15600.00	90.00	179.840	7130.00	7639.93S	71.35W	==>	7640.23	
15700.00	90.00	179.840	7130.00	7739.93S	71.07W	==>	7740.22	
15800.00	90.00	179.840	7130.00	7839.93S	70.78W	==>	7840.22	
15900.00	90.00	179.840	7130.00	7939.93S	70.50W	==>	7940.21	
16000.00	90.00	179.840	7130.00	8039.93S	70.21W	==>	8040.21	
16100.00	90.00	179.840	7130.00	8139.93S	69.93W	==>	8140.21	
16200.00	90.00	179.840	7130.00	8239.93S	69.64W	==>	8240.20	
16300.00	90.00	179.840	7130.00	8339.93S	69.36W	==>	8340.20	
16400.00	90.00	179.840	7130.00	8439.93S	69.07W	==>	8440.19	
16500.00	90.00	179.840	7130.00	8539.93S	68.79W	==>	8540.19	
16600.00	90.00	179.840	7130.00	8639.93S	68.50W	==>	8640.19	
16700.00	90.00	179.840	7130.00	8739.93S	68.22W	==>	8740.18	
16800.00	90.00	179.840	7130.00	8839.93S	67.93W	==>	8840.18	
16900.00	90.00	179.840	7130.00	8939.93S	67.65W	==>	8940.17	
17000.00	90.00	179.840	7130.00	9039.93S	67.36W	==>	9040.17	
17100.00	90.00	179.840	7130.00	9139.93S	67.08W	==>	9140.17	
17200.00	90.00	179.840	7130.00	9239.93S	66.79W	==>	9240.16	
17300.00	90.00	179.840	7130.00	9339.93S	66.51W	==>	9340.16	
17400.00	90.00	179.840	7130.00	9439.93S	66.22W	==>	9440.15	
17500.00	90.00	179.840	7130.00	9539.93S	65.94W	==>	9540.15	
17600.00	90.00	179.840	7130.00	9639.93S	65.65W	==>	9640.15	
17700.00	90.00	179.840	7130.00	9739.93S	65.37W	==>	9740.14	
17800.00	90.00	179.840	7130.00	9839.93S	65.08W	==>	9840.14	
17900.00	90.00	179.840	7130.00	9939.92S	64.80W	==>	9940.14	
18000.00	90.00	179.840	7130.00	10039.92S	64.51W	==>	10040.13	
18100.00	90.00	179.840	7130.00	10139.92S	64.23W	==>	10140.13	
18200.00	90.00	179.840	7130.00	10239.92S	63.95W	==>	10240.12	
18300.00	90.00	179.840	7130.00	10339.92S	63.66W	==>	10340.12	
18400.00	90.00	179.840	7130.00	10439.92S	63.38W	==>	10440.12	
18434.13	90.00	179.840	7130.00	10474.05S	63.28W	==>	10474.24	

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 180.350 degrees
Bottom hole distance is 10474.24 Feet on azimuth 180.35 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 8 EP	403.89N	94.27W	7130.00	40.19886000	-105.04230000	1315617.13	3127851.83
Knight 8 BH	10474.05S	63.28W	7130.00	40.16900000	-105.04239000	1304739.68	3127882.82

Notes