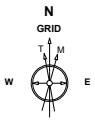
Petro Operating Company

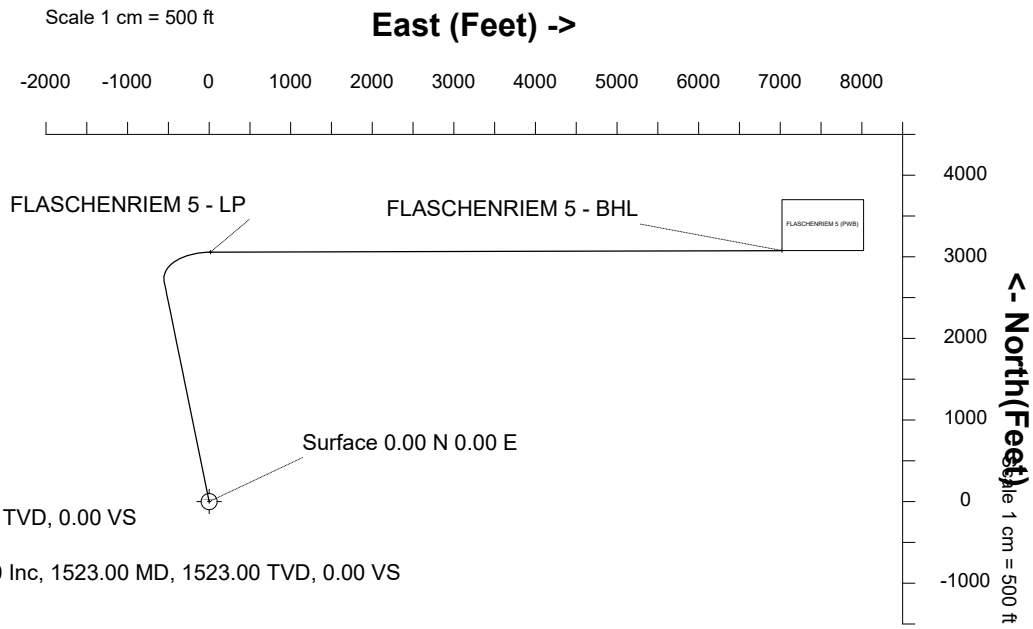
Location	Weld County, CO	Slot	FLASCHENRIEM 5
Field	Wattenberg	Well	FLASCHENRIEM 5
Installation	Flaschenriem Pad	Wellbore	FLASCHENRIEM 5 (PWB)

Created by sean.dolfinger
Date plotted 11-Mar-2019

Plot reference is FLASCHENRIEM 5 (PWB).
Ref wellpath is FLASCHENRIEM 5 (PWP#1).
Coordinates are in Feet reference FLASCHENRIEM 5.
True Vertical Depths are reference Rig Datum.
Measured Depths are reference Rig Datum.
Rig Datum: Planned Datum #1
Rig Datum to Mean Sea Level: 5091.00 ft.
Plot North is aligned to GRID North.

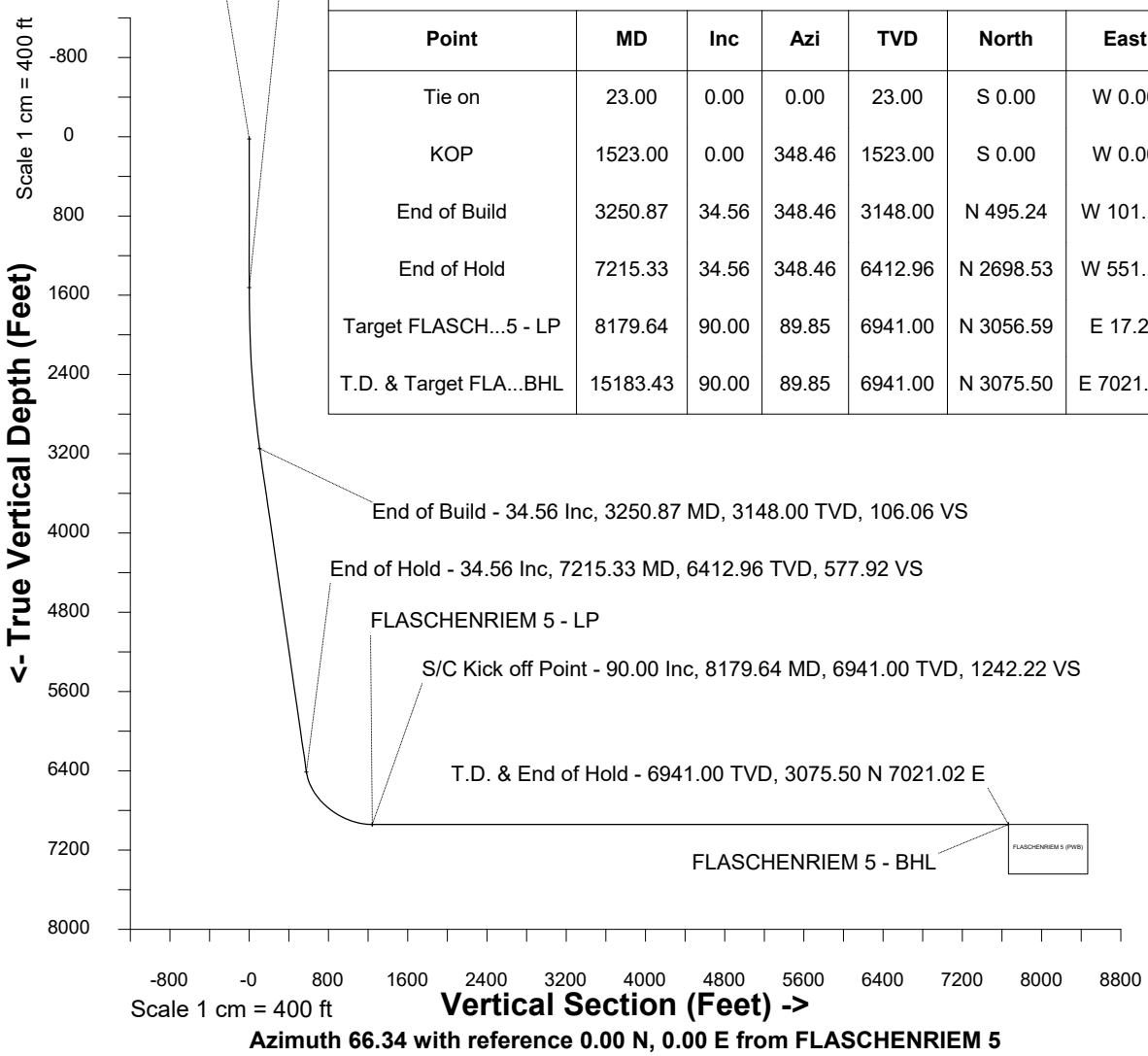


Apr-20-2018
EMM-2015 Dip: 66.69 deg Field: 52216.1 nT
Lat: N40 20 39.0325 Long: W104 59 29.5523 Elev: 5068.00 ft
Magnetic North is 8.49 deg East of True North
GRID North is 0.33 deg East of True North
To correct azimuth from True to GRID subtract 0.33 deg
To correct azimuth from Magnetic to GRID add 8.16 deg



WELL PROFILE DATA

Point	MD	Inc	Azi	TVD	North	East	deg/100ft	V. Sect
Tie on	23.00	0.00	0.00	23.00	S 0.00	W 0.00		0.00
KOP	1523.00	0.00	348.46	1523.00	S 0.00	W 0.00	0.00	0.00
End of Build	3250.87	34.56	348.46	3148.00	N 495.24	W 101.15	2.00	106.06
End of Hold	7215.33	34.56	348.46	6412.96	N 2698.53	W 551.13	0.00	577.92
Target FLASCH...5 - LP	8179.64	90.00	89.85	6941.00	N 3056.59	E 17.25	10.00	1242.22
T.D. & Target FLA...BHL	15183.43	90.00	89.85	6941.00	N 3075.50	E 7021.02	0.00	7665.08



SYSDRILL
Well Design Combined Report
Wellbore: FLASCHENRIEM 5 (PWB)

Wellhead Details

Name	Latitude	Longitude	Northing	Easting	North	East	Slot Elevation Above Ground
FLASCHENRIEM 5	40.34417660	-104.99145260	1368630.6919	3141751.5679	0.47N	25.00E	0.00

Declination

Date	Source	Time
Apr-20-2018	EMM-2015	11:01

Installation Details

Name	Installation Position (Latitude)	Installation Position (Longitude)	Northing	Easting	Coord System Name	North Alignment
Flaschenriem Pad	40.34417570	-104.99154230	1368630.2207	3141726.5673	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]
23.00	0.00	0.00	23.00	-5068.00	0.00N	0.00E		0.00
1523.00	0.00	348.46	1523.00	-3568.00	0.00N	0.00E	==>	0.00
3250.87	34.56	348.46	3148.00	-1943.00	495.24N	101.15W	2.00	106.06
7215.33	34.56	348.46	6412.96	1321.96	2698.53N	551.13W	==>	577.92
8179.64	90.00	89.85	6941.00	1850.00	3056.59N	17.25E	10.00	1242.22
15183.43	90.00	89.85	6941.00	1850.00	3075.50N	7021.02E	==>	7665.08

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	40.34417660	-104.99145260
23.00	0.00	0.00	23.00	0.00N	0.00E	==>	0.00	40.34417660	-104.99145260
100.00	0.00	0.00	100.00	0.00N	0.00E	==>	0.00	40.34417660	-104.99145260
200.00	0.00	0.00	200.00	0.00N	0.00E	==>	0.00	40.34417660	-104.99145260
300.00	0.00	0.00	300.00	0.00N	0.00E	==>	0.00	40.34417660	-104.99145260
400.00	0.00	0.00	400.00	0.00N	0.00E	==>	0.00	40.34417660	-104.99145260
500.00	0.00	0.00	500.00	0.00N	0.00E	==>	0.00	40.34417660	-104.99145260
600.00	0.00	0.00	600.00	0.00N	0.00E	==>	0.00	40.34417660	-104.99145260
700.00	0.00	0.00	700.00	0.00N	0.00E	==>	0.00	40.34417660	-104.99145260
800.00	0.00	0.00	800.00	0.00N	0.00E	==>	0.00	40.34417660	-104.99145260
900.00	0.00	0.00	900.00	0.00N	0.00E	==>	0.00	40.34417660	-104.99145260
1000.00	0.00	0.00	1000.00	0.00N	0.00E	==>	0.00	40.34417660	-104.99145260
1100.00	0.00	0.00	1100.00	0.00N	0.00E	==>	0.00	40.34417660	-104.99145260
1200.00	0.00	0.00	1200.00	0.00N	0.00E	==>	0.00	40.34417660	-104.99145260
1300.00	0.00	0.00	1300.00	0.00N	0.00E	==>	0.00	40.34417660	-104.99145260
1400.00	0.00	0.00	1400.00	0.00N	0.00E	==>	0.00	40.34417660	-104.99145260
1500.00	0.00	0.00	1500.00	0.00N	0.00E	==>	0.00	40.34417660	-104.99145260
1523.00	0.00	348.46	1523.00	0.00N	0.00E	==>	0.00	40.34417660	-104.99145260
1623.00	2.00	348.46	1622.98	1.71N	0.35W	2.00	0.37	40.34418130	-104.99145382
1723.00	4.00	348.46	1722.84	6.84N	1.40W	2.00	1.46	40.34419539	-104.99145747
1823.00	6.00	348.46	1822.45	15.38N	3.14W	2.00	3.29	40.34421886	-104.99146355
1923.00	8.00	348.46	1921.70	27.32N	5.58W	2.00	5.85	40.34425167	-104.99147205
2023.00	10.00	348.46	2020.47	42.64N	8.71W	2.00	9.13	40.34429379	-104.99148297
2123.00	12.00	348.46	2118.62	61.34N	12.53W	2.00	13.14	40.34434516	-104.99149628
2223.00	14.00	348.46	2216.06	83.38N	17.03W	2.00	17.86	40.34440572	-104.99151197
2323.00	16.00	348.46	2312.64	108.73N	22.21W	2.00	23.29	40.34447541	-104.99153003
2423.00	18.00	348.46	2408.27	137.38N	28.06W	2.00	29.42	40.34455412	-104.99155043
2523.00	20.00	348.46	2502.82	169.27N	34.57W	2.00	36.25	40.34464178	-104.99157314
2623.00	22.00	348.46	2596.17	204.38N	41.74W	2.00	43.77	40.34473827	-104.99159814
2723.00	24.00	348.46	2688.21	242.66N	49.56W	2.00	51.97	40.34484347	-104.99162540
2823.00	26.00	348.46	2778.84	284.07N	58.02W	2.00	60.84	40.34495725	-104.99165489
2923.00	28.00	348.46	2867.94	328.55N	67.10W	2.00	70.36	40.34507948	-104.99168656

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 5091.0ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 66.34 degrees
Bottom hole distance is 7665.08 Feet on azimuth 66.34 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by
Date Printed: 11-Mar-2019

SYSDRILL
Well Design Combined Report
Wellbore: FLASCHENRIEM 5 (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)
3023.00	30.00	348.46	2955.39	376.05N	76.80W	2.00	80.53	40.34521001	-104.99172038
3123.00	32.00	348.46	3041.11	426.51N	87.11W	2.00	91.34	40.34534868	-104.99175632
3223.00	34.00	348.46	3124.97	479.87N	98.01W	2.00	102.77	40.34549532	-104.99179431
3250.87	34.56	348.46	3148.00	495.24N	101.15W	2.00	106.06	40.34553758	-104.99180527
3323.00	34.56	348.46	3207.40	535.33N	109.33W	==>	114.65	40.34564774	-104.99183381
3423.00	34.56	348.46	3289.76	590.91N	120.68W	==>	126.55	40.34580047	-104.99187339
3523.00	34.56	348.46	3372.11	646.48N	132.03W	==>	138.45	40.34595320	-104.99191297
3623.00	34.56	348.46	3454.47	702.06N	143.38W	==>	150.35	40.34610592	-104.99195254
3723.00	34.56	348.46	3536.83	757.64N	154.74W	==>	162.26	40.34625865	-104.99199212
3823.00	34.56	348.46	3619.18	813.21N	166.09W	==>	174.16	40.34641138	-104.99203170
3923.00	34.56	348.46	3701.54	868.79N	177.44W	==>	186.06	40.34656411	-104.99207128
4023.00	34.56	348.46	3783.89	924.36N	188.79W	==>	197.96	40.34671684	-104.99211085
4123.00	34.56	348.46	3866.25	979.94N	200.14W	==>	209.87	40.34686956	-104.99215043
4223.00	34.56	348.46	3948.60	1035.51N	211.49W	==>	221.77	40.34702229	-104.99219001
4323.00	34.56	348.46	4030.96	1091.09N	222.84W	==>	233.67	40.34717502	-104.99222959
4423.00	34.56	348.46	4113.32	1146.67N	234.19W	==>	245.57	40.34732774	-104.99226917
4523.00	34.56	348.46	4195.67	1202.24N	245.54W	==>	257.47	40.34748047	-104.99230875
4623.00	34.56	348.46	4278.03	1257.82N	256.89W	==>	269.38	40.34763320	-104.99234833
4723.00	34.56	348.46	4360.38	1313.39N	268.24W	==>	281.28	40.34778593	-104.99238790
4823.00	34.56	348.46	4442.74	1368.97N	279.59W	==>	293.18	40.34793865	-104.99242748
4923.00	34.56	348.46	4525.10	1424.55N	290.94W	==>	305.08	40.34809138	-104.99246706
5023.00	34.56	348.46	4607.45	1480.12N	302.29W	==>	316.99	40.34824411	-104.99250664
5123.00	34.56	348.46	4689.81	1535.70N	313.64W	==>	328.89	40.34839684	-104.99254622
5223.00	34.56	348.46	4772.16	1591.27N	324.99W	==>	340.79	40.34854956	-104.99258580
5323.00	34.56	348.46	4854.52	1646.85N	336.34W	==>	352.69	40.34870229	-104.99262538
5423.00	34.56	348.46	4936.88	1702.43N	347.69W	==>	364.59	40.34885502	-104.99266496
5523.00	34.56	348.46	5019.23	1758.00N	359.04W	==>	376.50	40.34900775	-104.99270454
5623.00	34.56	348.46	5101.59	1813.58N	370.40W	==>	388.40	40.34916047	-104.99274413
5723.00	34.56	348.46	5183.94	1869.15N	381.75W	==>	400.30	40.34931320	-104.99278371
5823.00	34.56	348.46	5266.30	1924.73N	393.10W	==>	412.20	40.34946593	-104.99282329
5923.00	34.56	348.46	5348.65	1980.30N	404.45W	==>	424.10	40.34961865	-104.99286287
6023.00	34.56	348.46	5431.01	2035.88N	415.80W	==>	436.01	40.34977138	-104.99290245
6123.00	34.56	348.46	5513.37	2091.46N	427.15W	==>	447.91	40.34992411	-104.99294203
6223.00	34.56	348.46	5595.72	2147.03N	438.50W	==>	459.81	40.35007684	-104.99298161
6323.00	34.56	348.46	5678.08	2202.61N	449.85W	==>	471.71	40.35022956	-104.99302120
6423.00	34.56	348.46	5760.43	2258.18N	461.20W	==>	483.62	40.35038229	-104.99306078
6523.00	34.56	348.46	5842.79	2313.76N	472.55W	==>	495.52	40.35053502	-104.99310036
6623.00	34.56	348.46	5925.15	2369.34N	483.90W	==>	507.42	40.35068774	-104.99313994
6723.00	34.56	348.46	6007.50	2424.91N	495.25W	==>	519.32	40.35084047	-104.99317953
6823.00	34.56	348.46	6089.86	2480.49N	506.60W	==>	531.22	40.35099320	-104.99321911
6923.00	34.56	348.46	6172.21	2536.06N	517.95W	==>	543.13	40.35114593	-104.99325869
7023.00	34.56	348.46	6254.57	2591.64N	529.30W	==>	555.03	40.35129865	-104.99329827
7123.00	34.56	348.46	6336.92	2647.21N	540.65W	==>	566.93	40.35145138	-104.99333786
7215.33	34.56	348.46	6412.96	2698.53N	551.13W	==>	577.92	40.35159239	-104.99337440
7223.00	34.44	349.80	6419.29	2702.79N	551.95W	10.00	578.88	40.35160411	-104.99337726
7323.00	34.27	7.56	6502.05	2758.67N	553.26W	10.00	600.11	40.35175752	-104.99338080
7423.00	36.59	24.39	6583.73	2813.86N	537.21W	10.00	636.95	40.35190876	-104.99332208
7523.00	40.96	38.79	6661.83	2866.69N	504.28W	10.00	688.31	40.35205324	-104.99320286
7623.00	46.82	50.52	6733.99	2915.54N	455.48W	10.00	752.61	40.35218657	-104.99302678
7723.00	53.65	60.05	6798.01	2958.94N	392.29W	10.00	827.90	40.35230469	-104.99279917
7823.00	61.11	67.97	6851.94	2995.56N	316.63W	10.00	911.90	40.35240402	-104.99252697
7923.00	68.97	74.80	6894.16	3024.29N	230.80W	10.00	1002.05	40.35248155	-104.99221843
8023.00	77.07	80.93	6923.37	3044.27N	137.41W	10.00	1095.61	40.35253491	-104.99188294
8123.00	85.31	86.67	6938.68	3054.87N	39.29W	10.00	1189.74	40.35256247	-104.99153069
8179.64	90.00	89.85	6941.00	3056.59N	17.25E	10.00	1242.22	40.35256630	-104.99132780
8223.00	90.00	89.85	6941.00	3056.71N	60.62E	==>	1281.98	40.35256594	-104.99117222
8323.00	90.00	89.85	6941.00	3056.98N	160.62E	==>	1373.69	40.35256510	-104.99081343
8423.00	90.00	89.85	6941.00	3057.25N	260.62E	==>	1465.40	40.35256427	-104.99045465

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Coordinates are from Slot MD's are from Rig and TVD's are from Rig (Planned Datum #1 5091.0ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 66.34 degrees
Bottom hole distance is 7665.08 Feet on azimuth 66.34 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by
Date Printed: 11-Mar-2019

SYSDRILL
Well Design Combined Report
Wellbore: FLASCHENRIEM 5 (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)
8523.00	90.00	89.85	6941.00	3057.52N	360.62E	==>	1557.10	40.35256343	-104.99009586
8623.00	90.00	89.85	6941.00	3057.79N	460.62E	==>	1648.81	40.35256259	-104.98973708
8723.00	90.00	89.85	6941.00	3058.06N	560.62E	==>	1740.51	40.35256175	-104.98937830
8823.00	90.00	89.85	6941.00	3058.33N	660.62E	==>	1832.22	40.35256091	-104.98901951
8923.00	90.00	89.85	6941.00	3058.60N	760.62E	==>	1923.92	40.35256007	-104.98866073
9023.00	90.00	89.85	6941.00	3058.87N	860.62E	==>	2015.63	40.35255923	-104.98830194
9123.00	90.00	89.85	6941.00	3059.14N	960.61E	==>	2107.33	40.35255839	-104.98794316
9223.00	90.00	89.85	6941.00	3059.41N	1060.61E	==>	2199.04	40.35255754	-104.98758437
9323.00	90.00	89.85	6941.00	3059.68N	1160.61E	==>	2290.74	40.35255670	-104.98722559
9423.00	90.00	89.85	6941.00	3059.95N	1260.61E	==>	2382.45	40.35255585	-104.98686680
9523.00	90.00	89.85	6941.00	3060.22N	1360.61E	==>	2474.16	40.35255500	-104.98650802
9623.00	90.00	89.85	6941.00	3060.49N	1460.61E	==>	2565.86	40.35255415	-104.98614923
9723.00	90.00	89.85	6941.00	3060.76N	1560.61E	==>	2657.57	40.35255330	-104.98579045
9823.00	90.00	89.85	6941.00	3061.03N	1660.61E	==>	2749.27	40.35255245	-104.98543167
9923.00	90.00	89.85	6941.00	3061.30N	1760.61E	==>	2840.98	40.35255160	-104.98507288
10023.00	90.00	89.85	6941.00	3061.57N	1860.61E	==>	2932.68	40.35255075	-104.98471410
10123.00	90.00	89.85	6941.00	3061.84N	1960.61E	==>	3024.39	40.35254989	-104.98435531
10223.00	90.00	89.85	6941.00	3062.11N	2060.61E	==>	3116.09	40.35254904	-104.98399653
10323.00	90.00	89.85	6941.00	3062.38N	2160.61E	==>	3207.80	40.35254818	-104.98363774
10423.00	90.00	89.85	6941.00	3062.65N	2260.61E	==>	3299.51	40.35254732	-104.98327896
10523.00	90.00	89.85	6941.00	3062.92N	2360.61E	==>	3391.21	40.35254646	-104.98292017
10623.00	90.00	89.85	6941.00	3063.19N	2460.61E	==>	3482.92	40.35254560	-104.98256139
10723.00	90.00	89.85	6941.00	3063.46N	2560.61E	==>	3574.62	40.35254474	-104.98220261
10823.00	90.00	89.85	6941.00	3063.73N	2660.61E	==>	3666.33	40.35254388	-104.98184382
10923.00	90.00	89.85	6941.00	3064.00N	2760.61E	==>	3758.03	40.35254302	-104.98148504
11023.00	90.00	89.85	6941.00	3064.27N	2860.61E	==>	3849.74	40.35254215	-104.98112625
11123.00	90.00	89.85	6941.00	3064.54N	2960.61E	==>	3941.44	40.35254129	-104.98076747
11223.00	90.00	89.85	6941.00	3064.81N	3060.61E	==>	4033.15	40.35254042	-104.98040868
11323.00	90.00	89.85	6941.00	3065.08N	3160.61E	==>	4124.85	40.35253955	-104.98004990
11423.00	90.00	89.85	6941.00	3065.35N	3260.61E	==>	4216.56	40.35253868	-104.97969111
11523.00	90.00	89.85	6941.00	3065.62N	3360.61E	==>	4308.27	40.35253781	-104.97933233
11623.00	90.00	89.85	6941.00	3065.89N	3460.61E	==>	4399.97	40.35253694	-104.97897355
11723.00	90.00	89.85	6941.00	3066.16N	3560.61E	==>	4491.68	40.35253607	-104.97861476
11823.00	90.00	89.85	6941.00	3066.43N	3660.61E	==>	4583.38	40.35253520	-104.97825598
11923.00	90.00	89.85	6941.00	3066.70N	3760.60E	==>	4675.09	40.35253432	-104.97789719
12023.00	90.00	89.85	6941.00	3066.97N	3860.60E	==>	4766.79	40.35253345	-104.97753841
12123.00	90.00	89.85	6941.00	3067.24N	3960.60E	==>	4858.50	40.35253257	-104.97717962
12223.00	90.00	89.85	6941.00	3067.51N	4060.60E	==>	4950.20	40.35253169	-104.97682084
12323.00	90.00	89.85	6941.00	3067.78N	4160.60E	==>	5041.91	40.35253081	-104.97646206
12423.00	90.00	89.85	6941.00	3068.05N	4260.60E	==>	5133.62	40.35252993	-104.97610327
12523.00	90.00	89.85	6941.00	3068.32N	4360.60E	==>	5225.32	40.35252905	-104.97574449
12623.00	90.00	89.85	6941.00	3068.59N	4460.60E	==>	5317.03	40.35252817	-104.97538570
12723.00	90.00	89.85	6941.00	3068.86N	4560.60E	==>	5408.73	40.35252729	-104.97502692
12823.00	90.00	89.85	6941.00	3069.13N	4660.60E	==>	5500.44	40.35252640	-104.97466813
12923.00	90.00	89.85	6941.00	3069.40N	4760.60E	==>	5592.14	40.35252552	-104.97430935
13023.00	90.00	89.85	6941.00	3069.67N	4860.60E	==>	5683.85	40.35252463	-104.97395057
13123.00	90.00	89.85	6941.00	3069.94N	4960.60E	==>	5775.55	40.35252374	-104.97359178
13223.00	90.00	89.85	6941.00	3070.21N	5060.60E	==>	5867.26	40.35252285	-104.97323300
13323.00	90.00	89.85	6941.00	3070.48N	5160.60E	==>	5958.96	40.35252196	-104.97287421
13423.00	90.00	89.85	6941.00	3070.75N	5260.60E	==>	6050.67	40.35252107	-104.97251543
13523.00	90.00	89.85	6941.00	3071.02N	5360.60E	==>	6142.38	40.35252018	-104.97215665
13623.00	90.00	89.85	6941.00	3071.29N	5460.60E	==>	6234.08	40.35251928	-104.97179786
13723.00	90.00	89.85	6941.00	3071.56N	5560.60E	==>	6325.79	40.35251839	-104.97143908
13823.00	90.00	89.85	6941.00	3071.83N	5660.60E	==>	6417.49	40.35251749	-104.97108029
13923.00	90.00	89.85	6941.00	3072.10N	5760.60E	==>	6509.20	40.35251660	-104.97072151
14023.00	90.00	89.85	6941.00	3072.37N	5860.60E	==>	6600.90	40.35251570	-104.97036272
14123.00	90.00	89.85	6941.00	3072.64N	5960.60E	==>	6692.61	40.35251480	-104.97000394
14223.00	90.00	89.85	6941.00	3072.91N	6060.60E	==>	6784.31	40.35251390	-104.96964516
14323.00	90.00	89.85	6941.00	3073.18N	6160.60E	==>	6876.02	40.35251300	-104.96928637

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Vertical Section is from 0.00N 0.00E on azimuth 66.34 degrees
Bottom hole distance is 7665.08 Feet on azimuth 66.34 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by
Date Printed: 11-Mar-2019

SYSDRILL
Well Design Combined Report
Wellbore: FLASCHENRIEM 5 (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)
14423.00	90.00	89.85	6941.00	3073.45N	6260.60E	==>	6967.72	40.35251210	-104.96892759
14523.00	90.00	89.85	6941.00	3073.72N	6360.60E	==>	7059.43	40.35251119	-104.96856880
14623.00	90.00	89.85	6941.00	3073.99N	6460.59E	==>	7151.14	40.35251029	-104.96821002
14723.00	90.00	89.85	6941.00	3074.26N	6560.59E	==>	7242.84	40.35250938	-104.96785124
14823.00	90.00	89.85	6941.00	3074.53N	6660.59E	==>	7334.55	40.35250848	-104.96749245
14923.00	90.00	89.85	6941.00	3074.80N	6760.59E	==>	7426.25	40.35250757	-104.96713367
15023.00	90.00	89.85	6941.00	3075.07N	6860.59E	==>	7517.96	40.35250666	-104.96677488
15123.00	90.00	89.85	6941.00	3075.34N	6960.59E	==>	7609.66	40.35250575	-104.96641610
15183.43	90.00	89.85	6941.00	3075.50N	7021.02E	==>	7665.08	40.35250520	-104.96619930

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SYSDRILL
Well Design Combined Report
Wellbore: FLASCHENRIEM 5 (PWB)

Targets

Name	North[ft]	East[ft]	TVD[ft]	Latitude	Longitude	Northing	Easting
FLASCHENRIEM 5 - BHL	3075.50N	7021.02E	6941.00	40.35250520	-104.96619930	1371706.06	3148772.28
FLASCHENRIEM 5 - LP	3056.59N	17.25E	6941.00	40.35256630	-104.99132780	1371687.15	3141768.82

Survey Tool Program

Reference	Survey Name	MD[ft]	TVD[ft]	Survey Tool	Error Model
782236	Planned	1523.00	1523.00	WdW Rate Gyro	Standard
782237	Planned	15183.43	6941.00	ISCWSA MWD	Rev 4 + SAG + FLT

Notes

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