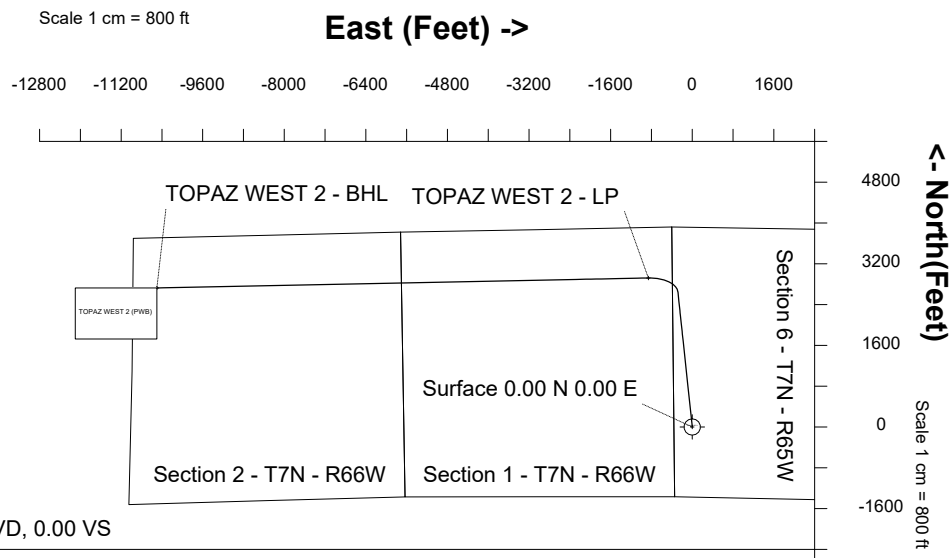
BAYSWATER E&P, LLC

Location	**Weld County, CO**	**Slot**	**TOPAZ WEST 2**
Field	**WATTENBERG**	**Well**	**TOPAZ WEST 2**
Installation	**Topaz 6-I Pad**	**Wellbore**	**TOPAZ WEST 2 (PWB)**

Created by sean.dolfinger
Date plotted 8-Oct-2021
Plot reference is TOPAZ WEST 2 (PWB).
Ref wellpath is TOPAZ WEST 2 (PWP#1).
Coordinates are in Feet reference TOPAZ WEST 2.
True Vertical Depths are reference Rig Datum.
Measured Depths are reference Rig Datum.
Rig Datum: Planned Datum #1
Rig Datum to Mean Sea Level: 4969.00 ft.
Plot North is aligned to GRID North.

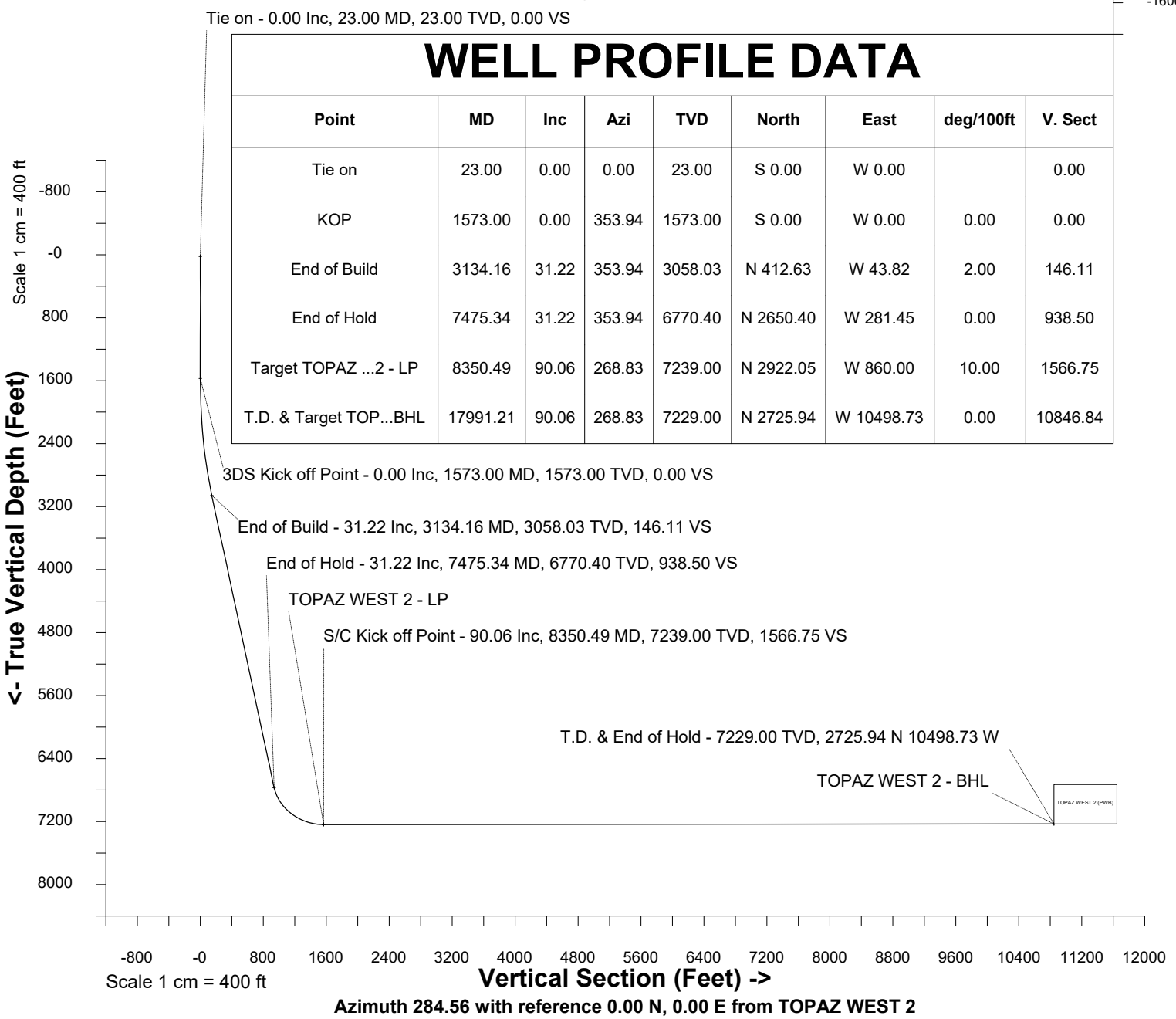
N
GRID
T M
W E

Oct-8-2021
EMM-2017 Dip: 66.83 deg Field: 51952.6 nT
Lat: N40 36 3.7296 Long: W104 42 52.5816 Elev: 4945.00 ft
Magnetic North is 7.85 deg East of True North
GRID North is 0.51 deg East of True North
To correct azimuth from True to GRID subtract 0.51 deg
To correct azimuth from Magnetic to GRID add 7.34 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	1573.00	0.00	353.94	1573.00	S 0.00	W 0.00	0.00	0.00
End of Build	3134.16	31.22	353.94	3058.03	N 412.63	W 43.82	2.00	146.11
End of Hold	7475.34	31.22	353.94	6770.40	N 2650.40	W 281.45	0.00	938.50
Target TOPAZ ...2 - LP	8350.49	90.06	268.83	7239.00	N 2922.05	W 860.00	10.00	1566.75
T.D. & Target TOP...BHL	17991.21	90.06	268.83	7229.00	N 2725.94	W 10498.73	0.00	10846.84



SYSDRILL
Well Design Combined Report
Wellbore: TOPAZ WEST 2 (PWB)

Wellhead Details

Name	Latitude	Longitude	Northing	Easting	North	East	Slot Elevation Above Ground
TOPAZ WEST 2	40.60102700	-104.71455300	1462761.6062	3218103.5825	3.15S	14.75E	0.00

Declination

Date	Source	Time
Oct-8-2021	EMM-2017	10:10

Installation Details

Name	Installation Position (Latitude)	Installation Position (Longitude)	Northing	Easting	Coord System Name	North Alignment
Topaz 6-I Pad	40.60103600	-104.71460600	1462764.7546	3218088.8367	NAD83 Colorado State Planes, North Zone, US Foot	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	-4946.00	0.00N	0.00E		0.00
1573.00	0.00	353.94	1573.00	-3396.00	0.00N	0.00E	==>	0.00
3134.16	31.22	353.94	3058.03	-1910.97	412.63N	43.82W	2.00	146.11
7475.34	31.22	353.94	6770.40	1801.40	2650.40N	281.45W	==>	938.50
8350.49	90.06	268.83	7239.00	2270.00	2922.05N	860.00W	10.00	1566.75
17991.21	90.06	268.83	7229.00	2260.00	2725.94N	10498.73W	==>	10846.84

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	40.60102700	-104.71455300
23.00	0.00	0.00	23.00	0.00N	0.00E	==>	0.00	40.60102700	-104.71455300
100.00	0.00	0.00	100.00	0.00N	0.00E	==>	0.00	40.60102700	-104.71455300
200.00	0.00	0.00	200.00	0.00N	0.00E	==>	0.00	40.60102700	-104.71455300
300.00	0.00	0.00	300.00	0.00N	0.00E	==>	0.00	40.60102700	-104.71455300
400.00	0.00	0.00	400.00	0.00N	0.00E	==>	0.00	40.60102700	-104.71455300
500.00	0.00	0.00	500.00	0.00N	0.00E	==>	0.00	40.60102700	-104.71455300
600.00	0.00	0.00	600.00	0.00N	0.00E	==>	0.00	40.60102700	-104.71455300
700.00	0.00	0.00	700.00	0.00N	0.00E	==>	0.00	40.60102700	-104.71455300
800.00	0.00	0.00	800.00	0.00N	0.00E	==>	0.00	40.60102700	-104.71455300
900.00	0.00	0.00	900.00	0.00N	0.00E	==>	0.00	40.60102700	-104.71455300
1000.00	0.00	0.00	1000.00	0.00N	0.00E	==>	0.00	40.60102700	-104.71455300
1100.00	0.00	0.00	1100.00	0.00N	0.00E	==>	0.00	40.60102700	-104.71455300
1200.00	0.00	0.00	1200.00	0.00N	0.00E	==>	0.00	40.60102700	-104.71455300
1300.00	0.00	0.00	1300.00	0.00N	0.00E	==>	0.00	40.60102700	-104.71455300
1400.00	0.00	0.00	1400.00	0.00N	0.00E	==>	0.00	40.60102700	-104.71455300
1500.00	0.00	0.00	1500.00	0.00N	0.00E	==>	0.00	40.60102700	-104.71455300
1573.00	0.00	353.94	1573.00	0.00N	0.00E	==>	0.00	40.60102700	-104.71455300
1673.00	2.00	353.94	1672.98	1.74N	0.18W	2.00	0.61	40.60103177	-104.71455361
1773.00	4.00	353.94	1772.84	6.94N	0.74W	2.00	2.46	40.60104606	-104.71455543
1873.00	6.00	353.94	1872.45	15.61N	1.66W	2.00	5.53	40.60106987	-104.71455847
1973.00	8.00	353.94	1971.70	27.72N	2.94W	2.00	9.82	40.60110317	-104.71456272
2073.00	10.00	353.94	2070.47	43.28N	4.60W	2.00	15.32	40.60114590	-104.71456817
2173.00	12.00	353.94	2168.62	62.25N	6.61W	2.00	22.04	40.60119802	-104.71457482
2273.00	14.00	353.94	2266.06	84.62N	8.99W	2.00	29.96	40.60125948	-104.71458266
2373.00	16.00	353.94	2362.64	110.36N	11.72W	2.00	39.08	40.60133018	-104.71459168
2473.00	18.00	353.94	2458.27	139.43N	14.81W	2.00	49.37	40.60141005	-104.71460187
2573.00	20.00	353.94	2552.82	171.80N	18.24W	2.00	60.83	40.60149899	-104.71461322
2673.00	22.00	353.94	2646.17	207.44N	22.03W	2.00	73.45	40.60159689	-104.71462571
2773.00	24.00	353.94	2738.21	246.29N	26.15W	2.00	87.21	40.60170362	-104.71463932
2873.00	26.00	353.94	2828.84	288.31N	30.62W	2.00	102.09	40.60181907	-104.71465405
2973.00	28.00	353.94	2917.94	333.46N	35.41W	2.00	118.08	40.60194309	-104.71466988

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 4969.0ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 284.56 degrees
Bottom hole distance is 10846.84 Feet on azimuth 284.56 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by
Date Printed: 8-Oct-2021

SYSDRILL
Well Design Combined Report
Wellbore: TOPAZ WEST 2 (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)
3073.00	30.00	353.94	3005.39	381.66N	40.53W	2.00	135.15	40.60207553	-104.71468677
3134.16	31.22	353.94	3058.03	412.63N	43.82W	2.00	146.11	40.60216062	-104.71469763
3173.00	31.22	353.94	3091.24	432.65N	45.94W	==>	153.20	40.60221562	-104.71470465
3273.00	31.22	353.94	3176.76	484.20N	51.42W	==>	171.45	40.60235723	-104.71472271
3373.00	31.22	353.94	3262.28	535.75N	56.89W	==>	189.71	40.60249885	-104.71474078
3473.00	31.22	353.94	3347.79	587.30N	62.37W	==>	207.96	40.60264046	-104.71475885
3573.00	31.22	353.94	3433.31	638.84N	67.84W	==>	226.21	40.60278208	-104.71477692
3673.00	31.22	353.94	3518.82	690.39N	73.31W	==>	244.46	40.60292369	-104.71479499
3773.00	31.22	353.94	3604.34	741.94N	78.79W	==>	262.72	40.60306531	-104.71481306
3873.00	31.22	353.94	3689.85	793.49N	84.26W	==>	280.97	40.60320693	-104.71483112
3973.00	31.22	353.94	3775.37	845.03N	89.74W	==>	299.22	40.60334854	-104.71484919
4073.00	31.22	353.94	3860.88	896.58N	95.21W	==>	317.48	40.60349016	-104.71486726
4173.00	31.22	353.94	3946.40	948.13N	100.68W	==>	335.73	40.60363177	-104.71488533
4273.00	31.22	353.94	4031.91	999.68N	106.16W	==>	353.98	40.60377339	-104.71490340
4373.00	31.22	353.94	4117.43	1051.22N	111.63W	==>	372.23	40.60391500	-104.71492147
4473.00	31.22	353.94	4202.94	1102.77N	117.11W	==>	390.49	40.60405662	-104.71493954
4573.00	31.22	353.94	4288.46	1154.32N	122.58W	==>	408.74	40.60419823	-104.71495761
4673.00	31.22	353.94	4373.98	1205.87N	128.05W	==>	426.99	40.60433985	-104.71497567
4773.00	31.22	353.94	4459.49	1257.41N	133.53W	==>	445.25	40.60448146	-104.71499374
4873.00	31.22	353.94	4545.01	1308.96N	139.00W	==>	463.50	40.60462308	-104.71501181
4973.00	31.22	353.94	4630.52	1360.51N	144.48W	==>	481.75	40.60476469	-104.71502988
5073.00	31.22	353.94	4716.04	1412.06N	149.95W	==>	500.00	40.60490631	-104.71504795
5173.00	31.22	353.94	4801.55	1463.60N	155.42W	==>	518.26	40.60504793	-104.71506602
5273.00	31.22	353.94	4887.07	1515.15N	160.90W	==>	536.51	40.60518954	-104.71508409
5373.00	31.22	353.94	4972.58	1566.70N	166.37W	==>	554.76	40.60533116	-104.71510216
5473.00	31.22	353.94	5058.10	1618.25N	171.85W	==>	573.01	40.60547277	-104.71512023
5573.00	31.22	353.94	5143.61	1669.80N	177.32W	==>	591.27	40.60561439	-104.71513830
5673.00	31.22	353.94	5229.13	1721.34N	182.79W	==>	609.52	40.60575600	-104.71515637
5773.00	31.22	353.94	5314.64	1772.89N	188.27W	==>	627.77	40.60589762	-104.71517444
5873.00	31.22	353.94	5400.16	1824.44N	193.74W	==>	646.03	40.60603923	-104.71519251
5973.00	31.22	353.94	5485.68	1875.99N	199.21W	==>	664.28	40.60618085	-104.71521058
6073.00	31.22	353.94	5571.19	1927.53N	204.69W	==>	682.53	40.60632246	-104.71522865
6173.00	31.22	353.94	5656.71	1979.08N	210.16W	==>	700.78	40.60646408	-104.71524672
6273.00	31.22	353.94	5742.22	2030.63N	215.64W	==>	719.04	40.60660569	-104.71526479
6373.00	31.22	353.94	5827.74	2082.18N	221.11W	==>	737.29	40.60674731	-104.71528286
6473.00	31.22	353.94	5913.25	2133.72N	226.58W	==>	755.54	40.60688892	-104.71530093
6573.00	31.22	353.94	5998.77	2185.27N	232.06W	==>	773.80	40.60703054	-104.71531900
6673.00	31.22	353.94	6084.28	2236.82N	237.53W	==>	792.05	40.60717215	-104.71533707
6773.00	31.22	353.94	6169.80	2288.37N	243.01W	==>	810.30	40.60731377	-104.71535514
6873.00	31.22	353.94	6255.31	2339.91N	248.48W	==>	828.55	40.60745538	-104.71537321
6973.00	31.22	353.94	6340.83	2391.46N	253.95W	==>	846.81	40.60759700	-104.71539128
7073.00	31.22	353.94	6426.34	2443.01N	259.43W	==>	865.06	40.60773861	-104.71540935
7173.00	31.22	353.94	6511.86	2494.56N	264.90W	==>	883.31	40.60788023	-104.71542743
7273.00	31.22	353.94	6597.38	2546.10N	270.38W	==>	901.56	40.60802184	-104.71544550
7373.00	31.22	353.94	6682.89	2597.65N	275.85W	==>	919.82	40.60816346	-104.71546357
7473.00	31.22	353.94	6768.41	2649.20N	281.32W	==>	938.07	40.60830508	-104.71548164
7475.34	31.22	353.94	6770.40	2650.40N	281.45W	==>	938.50	40.60830838	-104.71548206
7573.00	33.25	335.97	6853.20	2700.15N	295.06W	10.00	964.17	40.60844525	-104.71552949
7673.00	37.64	320.42	6934.82	2748.84N	325.76W	10.00	1006.12	40.60857964	-104.71563850
7773.00	43.67	308.12	7010.77	2793.80N	372.50W	10.00	1062.66	40.60870418	-104.71580538
7873.00	50.73	298.46	7078.76	2833.66N	433.84W	10.00	1132.05	40.60881507	-104.71602505
7973.00	58.45	290.64	7136.71	2867.21N	507.94W	10.00	1212.20	40.60890894	-104.71629084
8073.00	66.57	284.04	7182.87	2893.42N	592.54W	10.00	1300.67	40.60898294	-104.71659467
8173.00	74.93	278.23	7215.84	2911.51N	685.07W	10.00	1394.78	40.60903483	-104.71692732
8273.00	83.43	272.86	7234.60	2920.92N	782.71W	10.00	1491.65	40.60906302	-104.71727867
8350.49	90.06	268.83	7239.00	2922.05N	860.00W	10.00	1566.75	40.60906800	-104.71755700
8373.00	90.06	268.83	7238.98	2921.59N	882.51W	==>	1588.42	40.60906729	-104.71763808
8473.00	90.06	268.83	7238.87	2919.56N	982.49W	==>	1684.68	40.60906413	-104.71799821

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Vertical Section is from 0.00N 0.00E on azimuth 284.56 degrees
Bottom hole distance is 10846.84 Feet on azimuth 284.56 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by
Date Printed: 8-Oct-2021

SYSDRILL
Well Design Combined Report
Wellbore: TOPAZ WEST 2 (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)
8573.00	90.06	268.83	7238.77	2917.52N	1082.47W	==>	1780.94	40.60906096	-104.71835834
8673.00	90.06	268.83	7238.67	2915.49N	1182.45W	==>	1877.20	40.60905780	-104.71871847
8773.00	90.06	268.83	7238.56	2913.46N	1282.43W	==>	1973.46	40.60905463	-104.71907860
8873.00	90.06	268.83	7238.46	2911.42N	1382.41W	==>	2069.72	40.60905146	-104.71943873
8973.00	90.06	268.83	7238.35	2909.39N	1482.39W	==>	2165.97	40.60904830	-104.71979886
9073.00	90.06	268.83	7238.25	2907.35N	1582.37W	==>	2262.23	40.60904513	-104.72015899
9173.00	90.06	268.83	7238.15	2905.32N	1682.34W	==>	2358.49	40.60904196	-104.72051912
9273.00	90.06	268.83	7238.04	2903.28N	1782.32W	==>	2454.75	40.60903878	-104.72087925
9373.00	90.06	268.83	7237.94	2901.25N	1882.30W	==>	2551.01	40.60903561	-104.72123938
9473.00	90.06	268.83	7237.84	2899.22N	1982.28W	==>	2647.27	40.60903244	-104.72159950
9573.00	90.06	268.83	7237.73	2897.18N	2082.26W	==>	2743.53	40.60902926	-104.72195963
9673.00	90.06	268.83	7237.63	2895.15N	2182.24W	==>	2839.79	40.60902609	-104.72231976
9773.00	90.06	268.83	7237.52	2893.11N	2282.22W	==>	2936.05	40.60902291	-104.72267989
9873.00	90.06	268.83	7237.42	2891.08N	2382.20W	==>	3032.31	40.60901973	-104.72304002
9973.00	90.06	268.83	7237.32	2889.05N	2482.18W	==>	3128.57	40.60901655	-104.72340015
10073.00	90.06	268.83	7237.21	2887.01N	2582.16W	==>	3224.83	40.60901337	-104.72376028
10173.00	90.06	268.83	7237.11	2884.98N	2682.14W	==>	3321.09	40.60901019	-104.72412041
10273.00	90.06	268.83	7237.01	2882.94N	2782.12W	==>	3417.35	40.60900701	-104.72448054
10373.00	90.06	268.83	7236.90	2880.91N	2882.10W	==>	3513.61	40.60900382	-104.72484067
10473.00	90.06	268.83	7236.80	2878.87N	2982.08W	==>	3609.86	40.60900064	-104.72520080
10573.00	90.06	268.83	7236.69	2876.84N	3082.05W	==>	3706.12	40.60899745	-104.72556093
10673.00	90.06	268.83	7236.59	2874.81N	3182.03W	==>	3802.38	40.60899427	-104.72592106
10773.00	90.06	268.83	7236.49	2872.77N	3282.01W	==>	3898.64	40.60899108	-104.72628119
10873.00	90.06	268.83	7236.38	2870.74N	3381.99W	==>	3994.90	40.60898789	-104.72664132
10973.00	90.06	268.83	7236.28	2868.70N	3481.97W	==>	4091.16	40.60898470	-104.72700145
11073.00	90.06	268.83	7236.18	2866.67N	3581.95W	==>	4187.42	40.60898151	-104.72736158
11173.00	90.06	268.83	7236.07	2864.64N	3681.93W	==>	4283.68	40.60897831	-104.72772171
11273.00	90.06	268.83	7235.97	2862.60N	3781.91W	==>	4379.94	40.60897512	-104.72808184
11373.00	90.06	268.83	7235.86	2860.57N	3881.89W	==>	4476.20	40.60897193	-104.72844197
11473.00	90.06	268.83	7235.76	2858.53N	3981.87W	==>	4572.46	40.60896873	-104.72880209
11573.00	90.06	268.83	7235.66	2856.50N	4081.85W	==>	4668.72	40.60896553	-104.72916222
11673.00	90.06	268.83	7235.55	2854.46N	4181.83W	==>	4764.98	40.60896233	-104.72952235
11773.00	90.06	268.83	7235.45	2852.43N	4281.81W	==>	4861.24	40.60895913	-104.72988248
11873.00	90.06	268.83	7235.35	2850.40N	4381.78W	==>	4957.49	40.60895593	-104.73024261
11973.00	90.06	268.83	7235.24	2848.36N	4481.76W	==>	5053.75	40.60895273	-104.73060274
12073.00	90.06	268.83	7235.14	2846.33N	4581.74W	==>	5150.01	40.60894953	-104.73096287
12173.00	90.06	268.83	7235.04	2844.29N	4681.72W	==>	5246.27	40.60894633	-104.73132300
12273.00	90.06	268.83	7234.93	2842.26N	4781.70W	==>	5342.53	40.60894312	-104.73168313
12373.00	90.06	268.83	7234.83	2840.23N	4881.68W	==>	5438.79	40.60893991	-104.73204325
12473.00	90.06	268.83	7234.72	2838.19N	4981.66W	==>	5535.05	40.60893671	-104.73240338
12573.00	90.06	268.83	7234.62	2836.16N	5081.64W	==>	5631.31	40.60893350	-104.73276351
12673.00	90.06	268.83	7234.52	2834.12N	5181.62W	==>	5727.57	40.60893029	-104.73312364
12773.00	90.06	268.83	7234.41	2832.09N	5281.60W	==>	5823.83	40.60892708	-104.73348377
12873.00	90.06	268.83	7234.31	2830.05N	5381.58W	==>	5920.09	40.60892387	-104.73384390
12973.00	90.06	268.83	7234.21	2828.02N	5481.56W	==>	6016.35	40.60892065	-104.73420403
13073.00	90.06	268.83	7234.10	2825.99N	5581.54W	==>	6112.61	40.60891744	-104.73456416
13173.00	90.06	268.83	7234.00	2823.95N	5681.52W	==>	6208.87	40.60891423	-104.73492428
13273.00	90.06	268.83	7233.89	2821.92N	5781.49W	==>	6305.13	40.60891101	-104.73528441
13373.00	90.06	268.83	7233.79	2819.88N	5881.47W	==>	6401.38	40.60890779	-104.73564454
13473.00	90.06	268.83	7233.69	2817.85N	5981.45W	==>	6497.64	40.60890457	-104.73600467
13573.00	90.06	268.83	7233.58	2815.82N	6081.43W	==>	6593.90	40.60890135	-104.73636480
13673.00	90.06	268.83	7233.48	2813.78N	6181.41W	==>	6690.16	40.60889813	-104.73672493
13773.00	90.06	268.83	7233.38	2811.75N	6281.39W	==>	6786.42	40.60889491	-104.73708505
13873.00	90.06	268.83	7233.27	2809.71N	6381.37W	==>	6882.68	40.60889169	-104.73744518
13973.00	90.06	268.83	7233.17	2807.68N	6481.35W	==>	6978.94	40.60888847	-104.73780531
14073.00	90.06	268.83	7233.06	2805.64N	6581.33W	==>	7075.20	40.60888524	-104.73816544
14173.00	90.06	268.83	7232.96	2803.61N	6681.31W	==>	7171.46	40.60888201	-104.73852557
14273.00	90.06	268.83	7232.86	2801.58N	6781.29W	==>	7267.72	40.60887879	-104.73888570
14373.00	90.06	268.83	7232.75	2799.54N	6881.27W	==>	7363.98	40.60887556	-104.73924582

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Bottom hole distance is 10846.84 Feet on azimuth 284.56 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by
Date Printed: 8-Oct-2021

SYSDRILL
Well Design Combined Report
Wellbore: TOPAZ WEST 2 (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)
14473.00	90.06	268.83	7232.65	2797.51N	6981.25W	==>	7460.24	40.60887233	-104.73960595
14573.00	90.06	268.83	7232.55	2795.47N	7081.22W	==>	7556.50	40.60886910	-104.73996608
14673.00	90.06	268.83	7232.44	2793.44N	7181.20W	==>	7652.76	40.60886587	-104.74032621
14773.00	90.06	268.83	7232.34	2791.40N	7281.18W	==>	7749.02	40.60886263	-104.74068634
14873.00	90.06	268.83	7232.23	2789.37N	7381.16W	==>	7845.27	40.60885940	-104.74104646
14973.00	90.06	268.83	7232.13	2787.34N	7481.14W	==>	7941.53	40.60885617	-104.74140659
15073.00	90.06	268.83	7232.03	2785.30N	7581.12W	==>	8037.79	40.60885293	-104.74176672
15173.00	90.06	268.83	7231.92	2783.27N	7681.10W	==>	8134.05	40.60884969	-104.74212685
15273.00	90.06	268.83	7231.82	2781.23N	7781.08W	==>	8230.31	40.60884645	-104.74248698
15373.00	90.06	268.83	7231.72	2779.20N	7881.06W	==>	8326.57	40.60884321	-104.74284710
15473.00	90.06	268.83	7231.61	2777.17N	7981.04W	==>	8422.83	40.60883997	-104.74320723
15573.00	90.06	268.83	7231.51	2775.13N	8081.02W	==>	8519.09	40.60883673	-104.74356736
15673.00	90.06	268.83	7231.40	2773.10N	8181.00W	==>	8615.35	40.60883349	-104.74392749
15773.00	90.06	268.83	7231.30	2771.06N	8280.98W	==>	8711.61	40.60883024	-104.74428761
15873.00	90.06	268.83	7231.20	2769.03N	8380.95W	==>	8807.87	40.60882700	-104.74464774
15973.00	90.06	268.83	7231.09	2766.99N	8480.93W	==>	8904.13	40.60882375	-104.74500787
16073.00	90.06	268.83	7230.99	2764.96N	8580.91W	==>	9000.39	40.60882051	-104.74536800
16173.00	90.06	268.83	7230.89	2762.93N	8680.89W	==>	9096.65	40.60881726	-104.74572813
16273.00	90.06	268.83	7230.78	2760.89N	8780.87W	==>	9192.91	40.60881401	-104.74608825
16373.00	90.06	268.83	7230.68	2758.86N	8880.85W	==>	9289.16	40.60881076	-104.74644838
16473.00	90.06	268.83	7230.57	2756.82N	8980.83W	==>	9385.42	40.60880751	-104.74680851
16573.00	90.06	268.83	7230.47	2754.79N	9080.81W	==>	9481.68	40.60880425	-104.74716863
16673.00	90.06	268.83	7230.37	2752.76N	9180.79W	==>	9577.94	40.60880100	-104.74752876
16773.00	90.06	268.83	7230.26	2750.72N	9280.77W	==>	9674.20	40.60879774	-104.74788889
16873.00	90.06	268.83	7230.16	2748.69N	9380.75W	==>	9770.46	40.60879449	-104.74824902
16973.00	90.06	268.83	7230.06	2746.65N	9480.73W	==>	9866.72	40.60879123	-104.74860914
17073.00	90.06	268.83	7229.95	2744.62N	9580.71W	==>	9962.98	40.60878797	-104.74896927
17173.00	90.06	268.83	7229.85	2742.58N	9680.69W	==>	10059.24	40.60878471	-104.74932940
17273.00	90.06	268.83	7229.74	2740.55N	9780.66W	==>	10155.50	40.60878145	-104.74968953
17373.00	90.06	268.83	7229.64	2738.52N	9880.64W	==>	10251.76	40.60877819	-104.75004965
17473.00	90.06	268.83	7229.54	2736.48N	9980.62W	==>	10348.02	40.60877493	-104.75040978
17573.00	90.06	268.83	7229.43	2734.45N	10080.60W	==>	10444.28	40.60877166	-104.75076991
17673.00	90.06	268.83	7229.33	2732.41N	10180.58W	==>	10540.54	40.60876840	-104.75113003
17773.00	90.06	268.83	7229.23	2730.38N	10280.56W	==>	10636.79	40.60876513	-104.75149016
17873.00	90.06	268.83	7229.12	2728.35N	10380.54W	==>	10733.05	40.60876186	-104.75185029
17973.00	90.06	268.83	7229.02	2726.31N	10480.52W	==>	10829.31	40.60875860	-104.75221041
17991.21	90.06	268.83	7229.00	2725.94N	10498.73W	==>	10846.84	40.60875800	-104.75227600

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SYSDRILL
Well Design Combined Report
Wellbore: TOPAZ WEST 2 (PWB)

Targets

Name	North[ft]	East[ft]	TVD[ft]	Latitude	Longitude	Northing	Easting
TOPAZ WEST 2 - LP	2922.05N	860.00W	7239.00	40.60906800	-104.71755700	1465683.58	3217243.60
TOPAZ WEST 2 - BHL	2725.94N	10498.73W	7229.00	40.60875800	-104.75227600	1465487.47	3207605.13

Survey Tool Program

Reference	Survey Name	MD[ft]	TVD[ft]	Survey Tool	Error Model
1031804	Planned	1573.00	1573.00	WdW Rate Gyro	Standard
1031803	Planned	17991.21	7229.00	ISCWSA MWD	Rev 4 + SAG + FLT

Notes

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