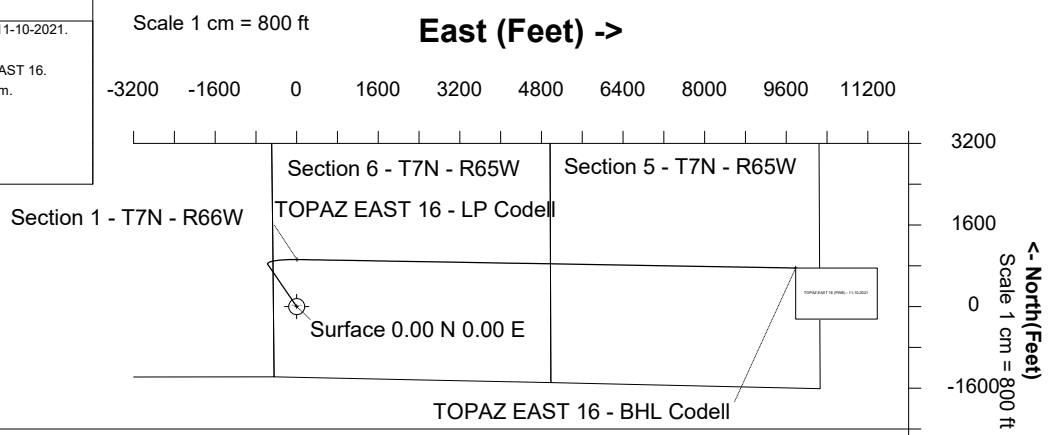
BAYSWATER E&P, LLC

Location	**Weld County, CO**	**Slot**	**TOPAZ EAST 16**
Field	**WATTENBERG**	**Well**	**TOPAZ EAST 16**
Installation	**Topaz 6-I Pad**	**Wellbore**	**TOPAZ EAST 16 (PWB) - 11-10-2021**

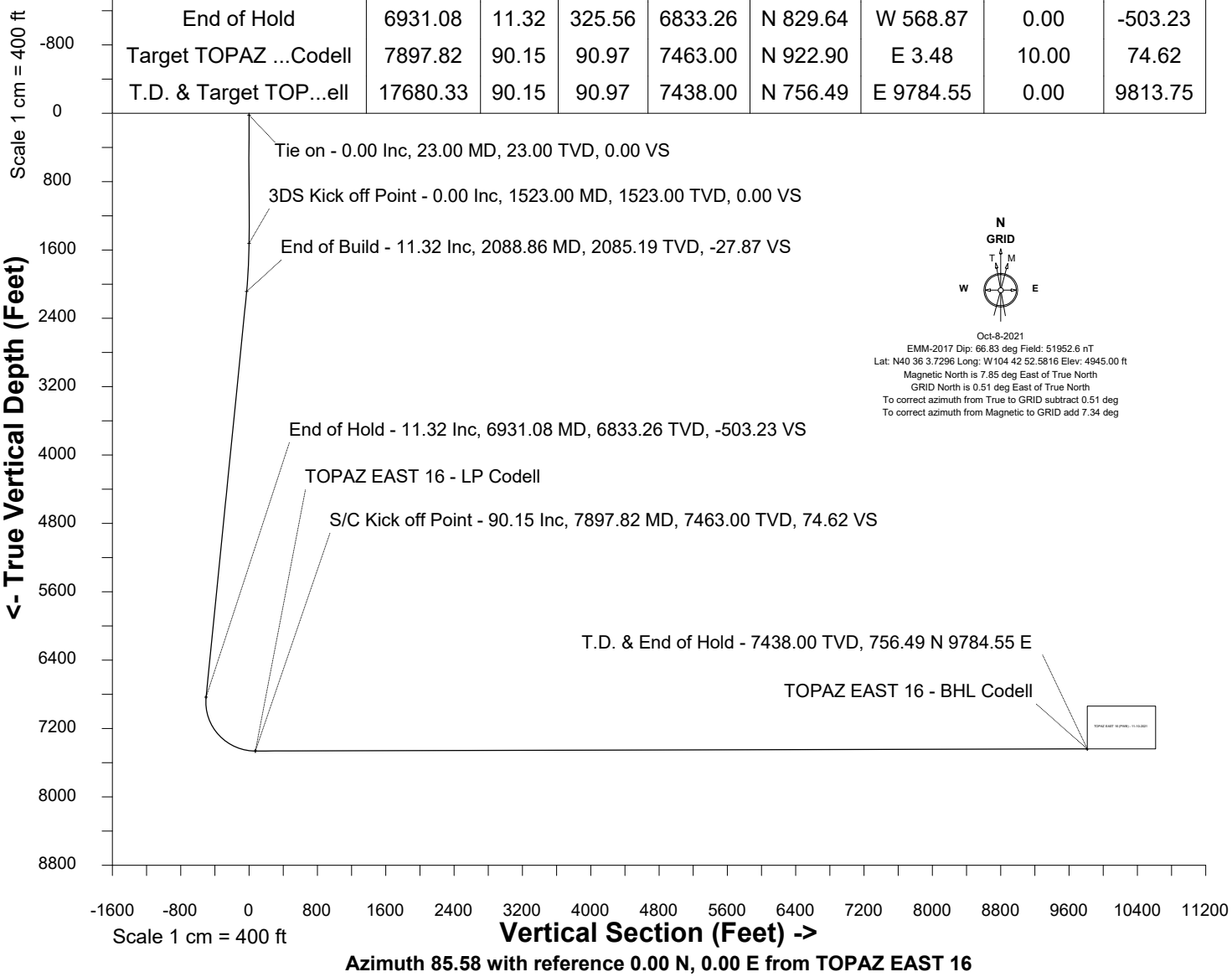
Created by sean.dolfinger
Date plotted 10-Nov-2021

Plot reference is TOPAZ EAST 16 (PWB) - 11-10-2021.
Ref wellpath is TOPAZ EAST 16 (PWP#1).
Coordinates are in Feet reference TOPAZ EAST 16.
True Vertical Depths are reference Rig Datum.
Measured Depths are reference Rig Datum.
Rig Datum: Planned Datum #1
Rig Datum to Mean Sea Level: 4968.00 ft.
Plot North is aligned to GRID North.



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	325.56	1523.00	S 0.00	W 0.00	0.00	0.00
End of Build	2088.86	11.32	325.56	2085.19	N 45.94	W 31.50	2.00	-27.87
End of Hold	6931.08	11.32	325.56	6833.26	N 829.64	W 568.87	0.00	-503.23
Target TOPAZ ...Codell	7897.82	90.15	90.97	7463.00	N 922.90	E 3.48	10.00	74.62
T.D. & Target TOP...ell	17680.33	90.15	90.97	7438.00	N 756.49	E 9784.55	0.00	9813.75



SYSDRILL
Well Design Combined Report
Wellbore: TOPAZ EAST 16 (PWB) - 11-10-2021

Wellhead Details

Name	Latitude	Longitude	Northing	Easting	North	East	Slot Elevation Above Ground
TOPAZ EAST 16	40.60105700	-104.71420300	1462773.3963	3218200.6714	8.64N	111.84E	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	-4945.00	0.00N	0.00E		0.00
1523.00	0.00	325.56	1523.00	-3445.00	0.00N	0.00E	==>	0.00
2088.86	11.32	325.56	2085.19	-2882.81	45.94N	31.50W	2.00	-27.87
6931.08	11.32	325.56	6833.26	1865.26	829.64N	568.87W	==>	-503.23
7897.82	90.15	90.97	7463.00	2495.00	922.90N	3.48E	10.00	74.62
17680.33	90.15	90.97	7438.00	2470.00	756.49N	9784.55E	==>	9813.75

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	40.60105700	-104.71420300
23.00	0.00	0.00	23.00	0.00N	0.00E	==>	0.00	40.60105700	-104.71420300
100.00	0.00	0.00	100.00	0.00N	0.00E	==>	0.00	40.60105700	-104.71420300
200.00	0.00	0.00	200.00	0.00N	0.00E	==>	0.00	40.60105700	-104.71420300
300.00	0.00	0.00	300.00	0.00N	0.00E	==>	0.00	40.60105700	-104.71420300
400.00	0.00	0.00	400.00	0.00N	0.00E	==>	0.00	40.60105700	-104.71420300
500.00	0.00	0.00	500.00	0.00N	0.00E	==>	0.00	40.60105700	-104.71420300
600.00	0.00	0.00	600.00	0.00N	0.00E	==>	0.00	40.60105700	-104.71420300
700.00	0.00	0.00	700.00	0.00N	0.00E	==>	0.00	40.60105700	-104.71420300
800.00	0.00	0.00	800.00	0.00N	0.00E	==>	0.00	40.60105700	-104.71420300
900.00	0.00	0.00	900.00	0.00N	0.00E	==>	0.00	40.60105700	-104.71420300
1000.00	0.00	0.00	1000.00	0.00N	0.00E	==>	0.00	40.60105700	-104.71420300
1100.00	0.00	0.00	1100.00	0.00N	0.00E	==>	0.00	40.60105700	-104.71420300
1200.00	0.00	0.00	1200.00	0.00N	0.00E	==>	0.00	40.60105700	-104.71420300
1300.00	0.00	0.00	1300.00	0.00N	0.00E	==>	0.00	40.60105700	-104.71420300
1400.00	0.00	0.00	1400.00	0.00N	0.00E	==>	0.00	40.60105700	-104.71420300
1500.00	0.00	0.00	1500.00	0.00N	0.00E	==>	0.00	40.60105700	-104.71420300
1523.00	0.00	325.56	1523.00	0.00N	0.00E	==>	0.00	40.60105700	-104.71420300
1623.00	2.00	325.56	1622.98	1.44N	0.99W	2.00	-0.87	40.60106097	-104.71420651
1723.00	4.00	325.56	1722.84	5.76N	3.95W	2.00	-3.49	40.60107289	-104.71421703
1823.00	6.00	325.56	1822.45	12.94N	8.87W	2.00	-7.85	40.60109274	-104.71423455
1923.00	8.00	325.56	1921.70	22.99N	15.77W	2.00	-13.95	40.60112049	-104.71425904
2023.00	10.00	325.56	2020.47	35.89N	24.61W	2.00	-21.77	40.60115612	-104.71429048
2088.86	11.32	325.56	2085.19	45.94N	31.50W	2.00	-27.87	40.60118386	-104.71431497
2123.00	11.32	325.56	2118.66	51.47N	35.29W	==>	-31.22	40.60119912	-104.71432844
2223.00	11.32	325.56	2216.72	67.65N	46.39W	==>	-41.03	40.60124381	-104.71436788
2323.00	11.32	325.56	2314.78	83.84N	57.48W	==>	-50.85	40.60128850	-104.71440733
2423.00	11.32	325.56	2412.83	100.02N	68.58W	==>	-60.67	40.60133319	-104.71444677
2523.00	11.32	325.56	2510.89	116.21N	79.68W	==>	-70.49	40.60137789	-104.71448622
2623.00	11.32	325.56	2608.94	132.39N	90.78W	==>	-80.30	40.60142258	-104.71452567
2723.00	11.32	325.56	2707.00	148.57N	101.88W	==>	-90.12	40.60146727	-104.71456511
2823.00	11.32	325.56	2805.05	164.76N	112.97W	==>	-99.94	40.60151196	-104.71460456

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 4968.0ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 85.58 degrees
Bottom hole distance is 9813.75 Feet on azimuth 85.58 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by
Date Printed: 10-Nov-2021

SYSDRILL
Well Design Combined Report
Wellbore: TOPAZ EAST 16 (PWB) - 11-10-2021

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)
2923.00	11.32	325.56	2903.11	180.94N	124.07W	==>	-109.75	40.60155665	-104.71464400
3023.00	11.32	325.56	3001.16	197.13N	135.17W	==>	-119.57	40.60160135	-104.71468345
3123.00	11.32	325.56	3099.22	213.31N	146.27W	==>	-129.39	40.60164604	-104.71472290
3223.00	11.32	325.56	3197.28	229.50N	157.36W	==>	-139.20	40.60169073	-104.71476234
3323.00	11.32	325.56	3295.33	245.68N	168.46W	==>	-149.02	40.60173542	-104.71480179
3423.00	11.32	325.56	3393.39	261.87N	179.56W	==>	-158.84	40.60178011	-104.71484124
3523.00	11.32	325.56	3491.44	278.05N	190.66W	==>	-168.66	40.60182480	-104.71488068
3623.00	11.32	325.56	3589.50	294.24N	201.75W	==>	-178.47	40.60186950	-104.71492013
3723.00	11.32	325.56	3687.55	310.42N	212.85W	==>	-188.29	40.60191419	-104.71495958
3823.00	11.32	325.56	3785.61	326.61N	223.95W	==>	-198.11	40.60195888	-104.71499902
3923.00	11.32	325.56	3883.66	342.79N	235.05W	==>	-207.92	40.60200357	-104.71503847
4023.00	11.32	325.56	3981.72	358.98N	246.14W	==>	-217.74	40.60204826	-104.71507792
4123.00	11.32	325.56	4079.78	375.16N	257.24W	==>	-227.56	40.60209296	-104.71511736
4223.00	11.32	325.56	4177.83	391.35N	268.34W	==>	-237.37	40.60213765	-104.71515681
4323.00	11.32	325.56	4275.89	407.53N	279.44W	==>	-247.19	40.60218234	-104.71519626
4423.00	11.32	325.56	4373.94	423.72N	290.53W	==>	-257.01	40.60222703	-104.71523570
4523.00	11.32	325.56	4472.00	439.90N	301.63W	==>	-266.83	40.60227172	-104.71527515
4623.00	11.32	325.56	4570.05	456.08N	312.73W	==>	-276.64	40.60231641	-104.71531460
4723.00	11.32	325.56	4668.11	472.27N	323.83W	==>	-286.46	40.60236111	-104.71535405
4823.00	11.32	325.56	4766.16	488.45N	334.92W	==>	-296.28	40.60240580	-104.71539349
4923.00	11.32	325.56	4864.22	504.64N	346.02W	==>	-306.09	40.60245049	-104.71543294
5023.00	11.32	325.56	4962.28	520.82N	357.12W	==>	-315.91	40.60249518	-104.71547239
5123.00	11.32	325.56	5060.33	537.01N	368.22W	==>	-325.73	40.60253987	-104.71551183
5223.00	11.32	325.56	5158.39	553.19N	379.32W	==>	-335.54	40.60258456	-104.71555128
5323.00	11.32	325.56	5256.44	569.38N	390.41W	==>	-345.36	40.60262926	-104.71559073
5423.00	11.32	325.56	5354.50	585.56N	401.51W	==>	-355.18	40.60267395	-104.71563018
5523.00	11.32	325.56	5452.55	601.75N	412.61W	==>	-364.99	40.60271864	-104.71566962
5623.00	11.32	325.56	5550.61	617.93N	423.71W	==>	-374.81	40.60276333	-104.71570907
5723.00	11.32	325.56	5648.66	634.12N	434.80W	==>	-384.63	40.60280802	-104.71574852
5823.00	11.32	325.56	5746.72	650.30N	445.90W	==>	-394.45	40.60285271	-104.71578797
5923.00	11.32	325.56	5844.78	666.49N	457.00W	==>	-404.26	40.60289740	-104.71582742
6023.00	11.32	325.56	5942.83	682.67N	468.10W	==>	-414.08	40.60294210	-104.71586686
6123.00	11.32	325.56	6040.89	698.86N	479.19W	==>	-423.90	40.60298679	-104.71590631
6223.00	11.32	325.56	6138.94	715.04N	490.29W	==>	-433.71	40.60303148	-104.71594576
6323.00	11.32	325.56	6237.00	731.22N	501.39W	==>	-443.53	40.60307617	-104.71598521
6423.00	11.32	325.56	6335.05	747.41N	512.49W	==>	-453.35	40.60312086	-104.71602466
6523.00	11.32	325.56	6433.11	763.59N	523.58W	==>	-463.16	40.60316555	-104.71606410
6623.00	11.32	325.56	6531.17	779.78N	534.68W	==>	-472.98	40.60321024	-104.71610355
6723.00	11.32	325.56	6629.22	795.96N	545.78W	==>	-482.80	40.60325494	-104.71614300
6823.00	11.32	325.56	6727.28	812.15N	556.88W	==>	-492.62	40.60329963	-104.71618245
6923.00	11.32	325.56	6825.33	828.33N	567.97W	==>	-502.43	40.60334432	-104.71622190
6931.08	11.32	325.56	6833.26	829.64N	568.87W	==>	-503.23	40.60334793	-104.71622508
7023.00	9.64	17.08	6923.83	844.47N	571.72W	10.00	-504.92	40.60338869	-104.71623486
7123.00	15.65	55.33	7021.52	860.18N	558.13W	10.00	-490.16	40.60343150	-104.71618544
7223.00	24.39	69.87	7115.44	875.00N	527.57W	10.00	-458.55	40.60347143	-104.71607492
7323.00	33.81	76.85	7202.74	888.47N	480.97W	10.00	-411.05	40.60350727	-104.71590667
7423.00	43.47	81.04	7280.76	900.19N	419.74W	10.00	-349.10	40.60353794	-104.71568579
7523.00	53.23	83.95	7347.14	909.79N	345.74W	10.00	-274.58	40.60356251	-104.71541901
7623.00	63.05	86.19	7399.86	916.99N	261.22W	10.00	-189.76	40.60358022	-104.71511442
7723.00	72.90	88.07	7437.32	921.57N	168.75W	10.00	-97.21	40.60359053	-104.71478128
7823.00	82.76	89.76	7458.38	923.39N	71.14W	10.00	0.25	40.60359314	-104.71442971
7897.82	90.15	90.97	7463.00	922.90N	3.48E	10.00	74.62	40.60359000	-104.71416100
7923.00	90.15	90.97	7462.94	922.47N	28.66E	==>	99.68	40.60358821	-104.71407035
8023.00	90.15	90.97	7462.68	920.77N	128.65E	==>	199.24	40.60358111	-104.71371035
8123.00	90.15	90.97	7462.42	919.07N	228.63E	==>	298.80	40.60357401	-104.71335035
8223.00	90.15	90.97	7462.17	917.37N	328.62E	==>	398.35	40.60356690	-104.71299034
8323.00	90.15	90.97	7461.91	915.67N	428.60E	==>	497.91	40.60355980	-104.71263034
8423.00	90.15	90.97	7461.66	913.97N	528.59E	==>	597.47	40.60355269	-104.71227034

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 4968.0ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 85.58 degrees
Bottom hole distance is 9813.75 Feet on azimuth 85.58 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by
Date Printed: 10-Nov-2021

SYSDRILL
Well Design Combined Report
Wellbore: TOPAZ EAST 16 (PWB) - 11-10-2021

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	90.15	90.97	7461.40	912.27N	628.57E	==>	697.02	40.60354558	-104.71191033
8623.00	90.15	90.97	7461.15	910.57N	728.56E	==>	796.58	40.60353847	-104.71155033
8723.00	90.15	90.97	7460.89	908.86N	828.54E	==>	896.14	40.60353136	-104.71119033
8823.00	90.15	90.97	7460.64	907.16N	928.53E	==>	995.69	40.60352425	-104.71083033
8923.00	90.15	90.97	7460.38	905.46N	1028.51E	==>	1095.25	40.60351714	-104.71047032
9023.00	90.15	90.97	7460.12	903.76N	1128.50E	==>	1194.81	40.60351003	-104.71011032
9123.00	90.15	90.97	7459.87	902.06N	1228.48E	==>	1294.36	40.60350291	-104.70975032
9223.00	90.15	90.97	7459.61	900.36N	1328.47E	==>	1393.92	40.60349580	-104.70939032
9323.00	90.15	90.97	7459.36	898.66N	1428.45E	==>	1493.48	40.60348868	-104.70903031
9423.00	90.15	90.97	7459.10	896.96N	1528.44E	==>	1593.03	40.60348157	-104.70867031
9523.00	90.15	90.97	7458.85	895.26N	1628.42E	==>	1692.59	40.60347445	-104.70831031
9623.00	90.15	90.97	7458.59	893.55N	1728.41E	==>	1792.15	40.60346733	-104.70795031
9723.00	90.15	90.97	7458.34	891.85N	1828.39E	==>	1891.70	40.60346021	-104.70759031
9823.00	90.15	90.97	7458.08	890.15N	1928.38E	==>	1991.26	40.60345308	-104.70723030
9923.00	90.15	90.97	7457.82	888.45N	2028.36E	==>	2090.81	40.60344596	-104.70687030
10023.00	90.15	90.97	7457.57	886.75N	2128.35E	==>	2190.37	40.60343884	-104.70651030
10123.00	90.15	90.97	7457.31	885.05N	2228.33E	==>	2289.93	40.60343171	-104.70615030
10223.00	90.15	90.97	7457.06	883.35N	2328.32E	==>	2389.48	40.60342458	-104.70579030
10323.00	90.15	90.97	7456.80	881.65N	2428.31E	==>	2489.04	40.60341746	-104.70543029
10423.00	90.15	90.97	7456.55	879.95N	2528.29E	==>	2588.60	40.60341033	-104.70507029
10523.00	90.15	90.97	7456.29	878.24N	2628.28E	==>	2688.15	40.60340320	-104.70471029
10623.00	90.15	90.97	7456.04	876.54N	2728.26E	==>	2787.71	40.60339607	-104.70435029
10723.00	90.15	90.97	7455.78	874.84N	2828.25E	==>	2887.27	40.60338894	-104.70399029
10823.00	90.15	90.97	7455.52	873.14N	2928.23E	==>	2986.82	40.60338180	-104.70363029
10923.00	90.15	90.97	7455.27	871.44N	3028.22E	==>	3086.38	40.60337467	-104.70327029
11023.00	90.15	90.97	7455.01	869.74N	3128.20E	==>	3185.94	40.60336753	-104.70291029
11123.00	90.15	90.97	7454.76	868.04N	3228.19E	==>	3285.49	40.60336040	-104.70255029
11223.00	90.15	90.97	7454.50	866.34N	3328.17E	==>	3385.05	40.60335326	-104.70219028
11323.00	90.15	90.97	7454.25	864.64N	3428.16E	==>	3484.61	40.60334612	-104.70183028
11423.00	90.15	90.97	7453.99	862.93N	3528.14E	==>	3584.16	40.60333898	-104.70147028
11523.00	90.15	90.97	7453.74	861.23N	3628.13E	==>	3683.72	40.60333184	-104.70111028
11623.00	90.15	90.97	7453.48	859.53N	3728.11E	==>	3783.28	40.60332470	-104.70075028
11723.00	90.15	90.97	7453.22	857.83N	3828.10E	==>	3882.83	40.60331755	-104.70039028
11823.00	90.15	90.97	7452.97	856.13N	3928.08E	==>	3982.39	40.60331041	-104.70003028
11923.00	90.15	90.97	7452.71	854.43N	4028.07E	==>	4081.95	40.60330326	-104.69967028
12023.00	90.15	90.97	7452.46	852.73N	4128.05E	==>	4181.50	40.60329612	-104.69931028
12123.00	90.15	90.97	7452.20	851.03N	4228.04E	==>	4281.06	40.60328897	-104.69895028
12223.00	90.15	90.97	7451.95	849.33N	4328.02E	==>	4380.62	40.60328182	-104.69859028
12323.00	90.15	90.97	7451.69	847.62N	4428.01E	==>	4480.17	40.60327467	-104.69823028
12423.00	90.15	90.97	7451.44	845.92N	4527.99E	==>	4579.73	40.60326752	-104.69787028
12523.00	90.15	90.97	7451.18	844.22N	4627.98E	==>	4679.29	40.60326037	-104.69751028
12623.00	90.15	90.97	7450.92	842.52N	4727.96E	==>	4778.84	40.60325321	-104.69715028
12723.00	90.15	90.97	7450.67	840.82N	4827.95E	==>	4878.40	40.60324606	-104.69679028
12823.00	90.15	90.97	7450.41	839.12N	4927.94E	==>	4977.96	40.60323890	-104.69643028
12923.00	90.15	90.97	7450.16	837.42N	5027.92E	==>	5077.51	40.60323175	-104.69607028
13023.00	90.15	90.97	7449.90	835.72N	5127.91E	==>	5177.07	40.60322459	-104.69571028
13123.00	90.15	90.97	7449.65	834.02N	5227.89E	==>	5276.63	40.60321743	-104.69535028
13223.00	90.15	90.97	7449.39	832.31N	5327.88E	==>	5376.18	40.60321027	-104.69499028
13323.00	90.15	90.97	7449.14	830.61N	5427.86E	==>	5475.74	40.60320311	-104.69463028
13423.00	90.15	90.97	7448.88	828.91N	5527.85E	==>	5575.29	40.60319595	-104.69427028
13523.00	90.15	90.97	7448.62	827.21N	5627.83E	==>	5674.85	40.60318879	-104.69391029
13623.00	90.15	90.97	7448.37	825.51N	5727.82E	==>	5774.41	40.60318162	-104.69355029
13723.00	90.15	90.97	7448.11	823.81N	5827.80E	==>	5873.96	40.60317446	-104.69319029
13823.00	90.15	90.97	7447.86	822.11N	5927.79E	==>	5973.52	40.60316729	-104.69283029
13923.00	90.15	90.97	7447.60	820.41N	6027.77E	==>	6073.08	40.60316012	-104.69247029
14023.00	90.15	90.97	7447.35	818.70N	6127.76E	==>	6172.63	40.60315295	-104.69211029
14123.00	90.15	90.97	7447.09	817.00N	6227.74E	==>	6272.19	40.60314578	-104.69175029
14223.00	90.15	90.97	7446.84	815.30N	6327.73E	==>	6371.75	40.60313861	-104.69139029
14323.00	90.15	90.97	7446.58	813.60N	6427.71E	==>	6471.30	40.60313144	-104.69103029

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 4968.0ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 85.58 degrees
Bottom hole distance is 9813.75 Feet on azimuth 85.58 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by
Date Printed: 10-Nov-2021

SYSDRILL
Well Design Combined Report
Wellbore: TOPAZ EAST 16 (PWB) - 11-10-2021

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	90.15	90.97	7446.32	811.90N	6527.70E	==>	6570.86	40.60312427	-104.69067030
14523.00	90.15	90.97	7446.07	810.20N	6627.68E	==>	6670.42	40.60311709	-104.69031030
14623.00	90.15	90.97	7445.81	808.50N	6727.67E	==>	6769.97	40.60310992	-104.68995030
14723.00	90.15	90.97	7445.56	806.80N	6827.65E	==>	6869.53	40.60310274	-104.68959030
14823.00	90.15	90.97	7445.30	805.10N	6927.64E	==>	6969.09	40.60309556	-104.68923030
14923.00	90.15	90.97	7445.05	803.39N	7027.62E	==>	7068.64	40.60308838	-104.68887031
15023.00	90.15	90.97	7444.79	801.69N	7127.61E	==>	7168.20	40.60308120	-104.68851031
15123.00	90.15	90.97	7444.54	799.99N	7227.59E	==>	7267.76	40.60307402	-104.68815031
15223.00	90.15	90.97	7444.28	798.29N	7327.58E	==>	7367.31	40.60306684	-104.68779031
15323.00	90.15	90.97	7444.02	796.59N	7427.57E	==>	7466.87	40.60305966	-104.68743031
15423.00	90.15	90.97	7443.77	794.89N	7527.55E	==>	7566.43	40.60305247	-104.68707032
15523.00	90.15	90.97	7443.51	793.19N	7627.54E	==>	7665.98	40.60304529	-104.68671032
15623.00	90.15	90.97	7443.26	791.49N	7727.52E	==>	7765.54	40.60303810	-104.68635032
15723.00	90.15	90.97	7443.00	789.79N	7827.51E	==>	7865.10	40.60303091	-104.68599032
15823.00	90.15	90.97	7442.75	788.08N	7927.49E	==>	7964.65	40.60302372	-104.68563033
15923.00	90.15	90.97	7442.49	786.38N	8027.48E	==>	8064.21	40.60301653	-104.68527033
16023.00	90.15	90.97	7442.24	784.68N	8127.46E	==>	8163.77	40.60300934	-104.68491033
16123.00	90.15	90.97	7441.98	782.98N	8227.45E	==>	8263.32	40.60300215	-104.68455033
16223.00	90.15	90.97	7441.72	781.28N	8327.43E	==>	8362.88	40.60299496	-104.68419034
16323.00	90.15	90.97	7441.47	779.58N	8427.42E	==>	8462.44	40.60298776	-104.68383034
16423.00	90.15	90.97	7441.21	777.88N	8527.40E	==>	8561.99	40.60298057	-104.68347034
16523.00	90.15	90.97	7440.96	776.18N	8627.39E	==>	8661.55	40.60297337	-104.68311035
16623.00	90.15	90.97	7440.70	774.48N	8727.37E	==>	8761.11	40.60296617	-104.68275035
16723.00	90.15	90.97	7440.45	772.77N	8827.36E	==>	8860.66	40.60295897	-104.68239035
16823.00	90.15	90.97	7440.19	771.07N	8927.34E	==>	8960.22	40.60295177	-104.68203036
16923.00	90.15	90.97	7439.94	769.37N	9027.33E	==>	9059.77	40.60294457	-104.68167036
17023.00	90.15	90.97	7439.68	767.67N	9127.31E	==>	9159.33	40.60293737	-104.68131036
17123.00	90.15	90.97	7439.42	765.97N	9227.30E	==>	9258.89	40.60293017	-104.68095037
17223.00	90.15	90.97	7439.17	764.27N	9327.28E	==>	9358.44	40.60292296	-104.68059037
17323.00	90.15	90.97	7438.91	762.57N	9427.27E	==>	9458.00	40.60291576	-104.68023037
17423.00	90.15	90.97	7438.66	760.87N	9527.25E	==>	9557.56	40.60290855	-104.67987038
17523.00	90.15	90.97	7438.40	759.17N	9627.24E	==>	9657.11	40.60290134	-104.67951038
17623.00	90.15	90.97	7438.15	757.46N	9727.22E	==>	9756.67	40.60289413	-104.67915039
17680.33	90.15	90.97	7438.00	756.49N	9784.55E	==>	9813.75	40.60289000	-104.67894400

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 4968.0ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 85.58 degrees
Bottom hole distance is 9813.75 Feet on azimuth 85.58 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by
Date Printed: 10-Nov-2021

SYSDRILL
Well Design Combined Report
Wellbore: TOPAZ EAST 16 (PWB) - 11-10-2021

Targets

Name	North[ft]	East[ft]	TVD[ft]	Latitude	Longitude	Northing	Easting
TOPAZ EAST 16 - LP Codell	922.90N	3.48E	7463.00	40.60359000	-104.71416100	1463696.27	3218204.16
TOPAZ EAST 16 - BHL Codell	756.49N	9784.55E	7438.00	40.60289000	-104.67894400	1463529.87	3227984.96

Survey Tool Program

Reference	Survey Name	MD[ft]	TVD[ft]	Survey Tool	Error Model
1034985	Planned	1523.00	1523.00	WdW Rate Gyro	Standard
1034984	Planned	17680.33	7438.00	ISCWSA MWD	Rev 4 + SAG + FLT

Notes

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 4968.0ft above Mean Sea Level)
Vertical Section is from 0.00N 0.00E on azimuth 85.58 degrees
Bottom hole distance is 9813.75 Feet on azimuth 85.58 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by
Date Printed: 10-Nov-2021