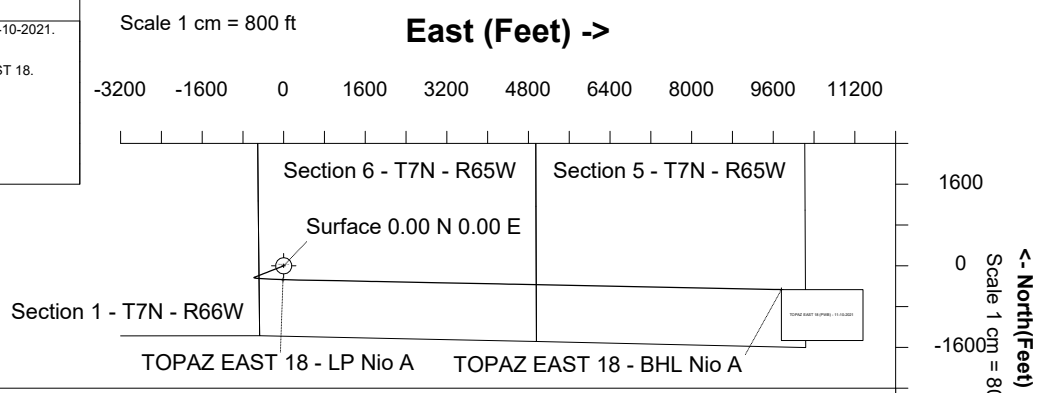
BAYSWATER E&P, LLC

Location	**Weld County, CO**	**Slot**	**TOPAZ EAST 18**
Field	**WATTENBERG**	**Well**	**TOPAZ EAST 18**
Installation	**Topaz 6-I Pad**	**Wellbore**	**TOPAZ EAST 18 (PWB) - 11-10-2021**

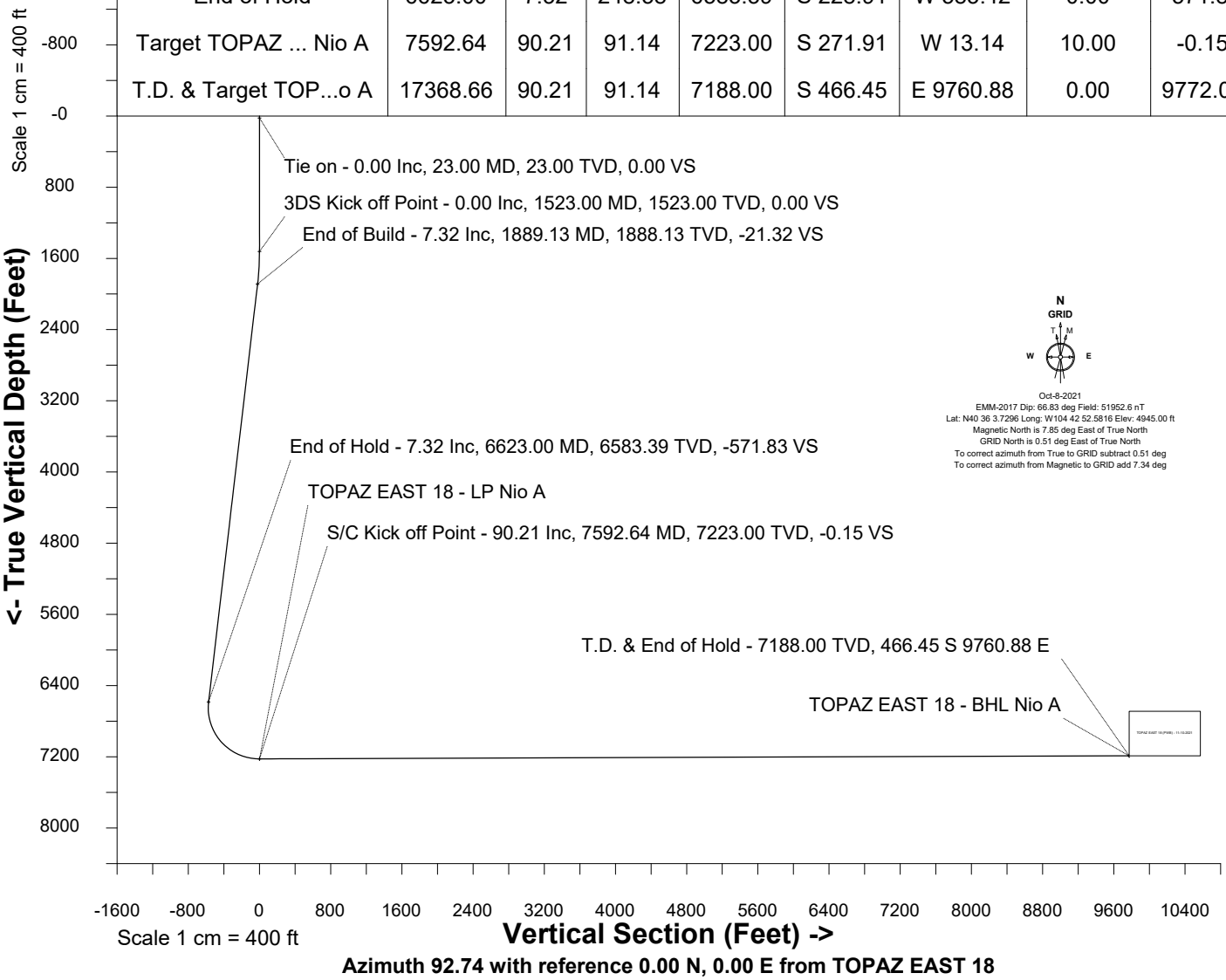
Created by sean.dolfinger
Date plotted 10-Nov-2021

Plot reference is TOPAZ EAST 18 (PWB) - 11-10-2021.
Ref wellpath is TOPAZ EAST 18 (PWP#1).
Coordinates are in Feet reference TOPAZ EAST 18.
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	248.58	1523.00	S 0.00	W 0.00	0.00	0.00
End of Build	1889.13	7.32	248.58	1888.13	S 8.53	W 21.75	2.00	-21.32
End of Hold	6623.00	7.32	248.58	6583.39	S 228.91	W 583.42	0.00	-571.83
Target TOPAZ ... Nio A	7592.64	90.21	91.14	7223.00	S 271.91	W 13.14	10.00	-0.15
T.D. & Target TOP...o A	17368.66	90.21	91.14	7188.00	S 466.45	E 9760.88	0.00	9772.02



SYSDRILL
Well Design Combined Report
Wellbore: TOPAZ EAST 18 (PWB) - 11-10-2021

Wellhead Details

Name	Latitude	Longitude	Northing	Easting	North	East	Slot Elevation Above Ground
TOPAZ EAST 18	40.60103900	-104.71409800	1462767.0973	3218229.8852	2.34N	141.05E	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	248.58	1523.00	-3445.00	0.00N	0.00E	==>	0.00
1889.13	7.32	248.58	1888.13	-3079.87	8.53S	21.75W	2.00	-21.32
6623.00	7.32	248.58	6583.39	1615.39	228.91S	583.42W	==>	-571.83
7592.64	90.21	91.14	7223.00	2255.00	271.91S	13.14W	10.00	-0.15
17368.66	90.21	91.14	7188.00	2220.00	466.45S	9760.88E	==>	9772.02

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	40.60103900	-104.71409800
23.00	0.00	0.00	23.00	0.00N	0.00E	==>	0.00	40.60103900	-104.71409800
100.00	0.00	0.00	100.00	0.00N	0.00E	==>	0.00	40.60103900	-104.71409800
200.00	0.00	0.00	200.00	0.00N	0.00E	==>	0.00	40.60103900	-104.71409800
300.00	0.00	0.00	300.00	0.00N	0.00E	==>	0.00	40.60103900	-104.71409800
400.00	0.00	0.00	400.00	0.00N	0.00E	==>	0.00	40.60103900	-104.71409800
500.00	0.00	0.00	500.00	0.00N	0.00E	==>	0.00	40.60103900	-104.71409800
600.00	0.00	0.00	600.00	0.00N	0.00E	==>	0.00	40.60103900	-104.71409800
700.00	0.00	0.00	700.00	0.00N	0.00E	==>	0.00	40.60103900	-104.71409800
800.00	0.00	0.00	800.00	0.00N	0.00E	==>	0.00	40.60103900	-104.71409800
900.00	0.00	0.00	900.00	0.00N	0.00E	==>	0.00	40.60103900	-104.71409800
1000.00	0.00	0.00	1000.00	0.00N	0.00E	==>	0.00	40.60103900	-104.71409800
1100.00	0.00	0.00	1100.00	0.00N	0.00E	==>	0.00	40.60103900	-104.71409800
1200.00	0.00	0.00	1200.00	0.00N	0.00E	==>	0.00	40.60103900	-104.71409800
1300.00	0.00	0.00	1300.00	0.00N	0.00E	==>	0.00	40.60103900	-104.71409800
1400.00	0.00	0.00	1400.00	0.00N	0.00E	==>	0.00	40.60103900	-104.71409800
1500.00	0.00	0.00	1500.00	0.00N	0.00E	==>	0.00	40.60103900	-104.71409800
1523.00	0.00	248.58	1523.00	0.00N	0.00E	==>	0.00	40.60103900	-104.71409800
1623.00	2.00	248.58	1622.98	0.64S	1.62W	2.00	-1.59	40.60103729	-104.71410387
1723.00	4.00	248.58	1722.84	2.55S	6.50W	2.00	-6.37	40.60103216	-104.71412147
1823.00	6.00	248.58	1822.45	5.73S	14.61W	2.00	-14.32	40.60102362	-104.71415079
1889.13	7.32	248.58	1888.13	8.53S	21.75W	2.00	-21.32	40.60101611	-104.71417659
1923.00	7.32	248.58	1921.73	10.11S	25.77W	==>	-25.26	40.60101188	-104.71419112
2023.00	7.32	248.58	2020.91	14.77S	37.63W	==>	-36.89	40.60099939	-104.71423399
2123.00	7.32	248.58	2120.10	19.42S	49.50W	==>	-48.52	40.60098690	-104.71427686
2223.00	7.32	248.58	2219.28	24.08S	61.36W	==>	-60.14	40.60097441	-104.71431974
2323.00	7.32	248.58	2318.47	28.73S	73.23W	==>	-71.77	40.60096192	-104.71436261
2423.00	7.32	248.58	2417.65	33.39S	85.09W	==>	-83.40	40.60094943	-104.71440549
2523.00	7.32	248.58	2516.83	38.04S	96.96W	==>	-95.03	40.60093694	-104.71444836
2623.00	7.32	248.58	2616.02	42.70S	108.82W	==>	-106.66	40.60092446	-104.71449123
2723.00	7.32	248.58	2715.20	47.35S	120.69W	==>	-118.29	40.60091197	-104.71453411
2823.00	7.32	248.58	2814.39	52.01S	132.55W	==>	-129.92	40.60089948	-104.71457698

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 92.74 degrees
Bottom hole distance is 9772.02 Feet on azimuth 92.74 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by
Date Printed: 10-Nov-2021

SYSDRILL
Well Design Combined Report
Wellbore: TOPAZ EAST 18 (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	7.32	248.58	2913.57	56.66S	144.42W	==>	-141.55	40.60088699	-104.71461986
3023.00	7.32	248.58	3012.76	61.32S	156.28W	==>	-153.18	40.60087450	-104.71466273
3123.00	7.32	248.58	3111.94	65.97S	168.15W	==>	-164.81	40.60086201	-104.71470560
3223.00	7.32	248.58	3211.13	70.63S	180.01W	==>	-176.44	40.60084952	-104.71474848
3323.00	7.32	248.58	3310.31	75.28S	191.88W	==>	-188.07	40.60083703	-104.71479135
3423.00	7.32	248.58	3409.49	79.94S	203.74W	==>	-199.70	40.60082455	-104.71483422
3523.00	7.32	248.58	3508.68	84.59S	215.61W	==>	-211.33	40.60081206	-104.71487710
3623.00	7.32	248.58	3607.86	89.25S	227.47W	==>	-222.95	40.60079957	-104.71491997
3723.00	7.32	248.58	3707.05	93.90S	239.34W	==>	-234.58	40.60078708	-104.71496285
3823.00	7.32	248.58	3806.23	98.56S	251.20W	==>	-246.21	40.60077459	-104.71500572
3923.00	7.32	248.58	3905.42	103.22S	263.07W	==>	-257.84	40.60076210	-104.71504859
4023.00	7.32	248.58	4004.60	107.87S	274.93W	==>	-269.47	40.60074961	-104.71509147
4123.00	7.32	248.58	4103.79	112.53S	286.80W	==>	-281.10	40.60073712	-104.71513434
4223.00	7.32	248.58	4202.97	117.18S	298.66W	==>	-292.73	40.60072463	-104.71517721
4323.00	7.32	248.58	4302.15	121.84S	310.53W	==>	-304.36	40.60071215	-104.71522009
4423.00	7.32	248.58	4401.34	126.49S	322.39W	==>	-315.99	40.60069966	-104.71526296
4523.00	7.32	248.58	4500.52	131.15S	334.26W	==>	-327.62	40.60068717	-104.71530584
4623.00	7.32	248.58	4599.71	135.80S	346.12W	==>	-339.25	40.60067468	-104.71534871
4723.00	7.32	248.58	4698.89	140.46S	357.99W	==>	-350.88	40.60066219	-104.71539158
4823.00	7.32	248.58	4798.08	145.11S	369.85W	==>	-362.51	40.60064970	-104.71543446
4923.00	7.32	248.58	4897.26	149.77S	381.72W	==>	-374.13	40.60063721	-104.71547733
5023.00	7.32	248.58	4996.45	154.42S	393.58W	==>	-385.76	40.60062472	-104.71552020
5123.00	7.32	248.58	5095.63	159.08S	405.45W	==>	-397.39	40.60061223	-104.71556308
5223.00	7.32	248.58	5194.81	163.73S	417.31W	==>	-409.02	40.60059974	-104.71560595
5323.00	7.32	248.58	5294.00	168.39S	429.18W	==>	-420.65	40.60058726	-104.71564882
5423.00	7.32	248.58	5393.18	173.04S	441.04W	==>	-432.28	40.60057477	-104.71569170
5523.00	7.32	248.58	5492.37	177.70S	452.91W	==>	-443.91	40.60056228	-104.71573457
5623.00	7.32	248.58	5591.55	182.35S	464.77W	==>	-455.54	40.60054979	-104.71577744
5723.00	7.32	248.58	5690.74	187.01S	476.64W	==>	-467.17	40.60053730	-104.71582032
5823.00	7.32	248.58	5789.92	191.66S	488.50W	==>	-478.80	40.60052481	-104.71586319
5923.00	7.32	248.58	5889.11	196.32S	500.37W	==>	-490.43	40.60051232	-104.71590606
6023.00	7.32	248.58	5988.29	200.97S	512.23W	==>	-502.06	40.60049983	-104.71594894
6123.00	7.32	248.58	6087.47	205.63S	524.10W	==>	-513.69	40.60048734	-104.71599181
6223.00	7.32	248.58	6186.66	210.29S	535.96W	==>	-525.31	40.60047485	-104.71603469
6323.00	7.32	248.58	6285.84	214.94S	547.83W	==>	-536.94	40.60046236	-104.71607756
6423.00	7.32	248.58	6385.03	219.60S	559.69W	==>	-548.57	40.60044987	-104.71612043
6523.00	7.32	248.58	6484.21	224.25S	571.56W	==>	-560.20	40.60043738	-104.71616330
6623.00	7.32	248.58	6583.39	228.91S	583.42W	==>	-571.83	40.60042490	-104.71620618
6723.00	4.30	132.17	6683.10	233.76S	586.59W	10.00	-574.76	40.60041164	-104.71621772
6823.00	13.53	102.98	6781.82	238.92S	572.37W	10.00	-560.31	40.60039715	-104.71616670
6923.00	23.40	97.69	6876.56	244.22S	541.21W	10.00	-528.93	40.60038185	-104.71605465
7023.00	33.35	95.45	6964.44	249.50S	494.05W	10.00	-481.57	40.60036620	-104.71588499
7123.00	43.32	94.15	7042.78	254.61S	432.32W	10.00	-419.67	40.60035069	-104.71566287
7223.00	53.29	93.26	7109.22	259.38S	357.90W	10.00	-345.11	40.60033579	-104.71539504
7323.00	63.28	92.57	7161.72	263.67S	273.04W	10.00	-260.15	40.60032194	-104.71508963
7423.00	73.26	92.00	7198.70	267.36S	180.34W	10.00	-167.38	40.60030957	-104.71475593
7523.00	83.25	91.48	7219.03	270.32S	82.60W	10.00	-69.61	40.60029906	-104.71440408
7592.64	90.21	91.14	7223.00	271.91S	13.14W	10.00	-0.15	40.60029300	-104.71415400
7623.00	90.21	91.14	7222.89	272.52S	17.21E	==>	30.20	40.60029060	-104.71404471
7723.00	90.21	91.14	7222.53	274.51S	117.19E	==>	130.16	40.60028271	-104.71368475
7823.00	90.21	91.14	7222.18	276.50S	217.17E	==>	230.12	40.60027481	-104.71332480
7923.00	90.21	91.14	7221.82	278.49S	317.15E	==>	330.08	40.60026692	-104.71296484
8023.00	90.21	91.14	7221.46	280.48S	417.13E	==>	430.05	40.60025902	-104.71260489
8123.00	90.21	91.14	7221.10	282.47S	517.11E	==>	530.01	40.60025112	-104.71224493
8223.00	90.21	91.14	7220.74	284.46S	617.09E	==>	629.97	40.60024322	-104.71188497
8323.00	90.21	91.14	7220.39	286.45S	717.07E	==>	729.93	40.60023532	-104.71152502
8423.00	90.21	91.14	7220.03	288.44S	817.05E	==>	829.89	40.60022742	-104.71116506
8523.00	90.21	91.14	7219.67	290.43S	917.03E	==>	929.85	40.60021951	-104.71080511

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 92.74 degrees
Bottom hole distance is 9772.02 Feet on azimuth 92.74 degrees from Wellhead
Calculation method uses Minimum Curvature method
Prepared by
Date Printed: 10-Nov-2021

SYSDRILL
Well Design Combined Report
Wellbore: TOPAZ EAST 18 (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)
8623.00	90.21	91.14	7219.31	292.42S	1017.01E	==>	1029.81	40.60021161	-104.71044515
8723.00	90.21	91.14	7218.95	294.41S	1116.99E	==>	1129.77	40.60020370	-104.71008520
8823.00	90.21	91.14	7218.60	296.40S	1216.97E	==>	1229.73	40.60019580	-104.70972524
8923.00	90.21	91.14	7218.24	298.39S	1316.95E	==>	1329.69	40.60018789	-104.70936529
9023.00	90.21	91.14	7217.88	300.38S	1416.93E	==>	1429.65	40.60017998	-104.70900533
9123.00	90.21	91.14	7217.52	302.37S	1516.91E	==>	1529.61	40.60017207	-104.70864538
9223.00	90.21	91.14	7217.16	304.36S	1616.89E	==>	1629.57	40.60016416	-104.70828542
9323.00	90.21	91.14	7216.80	306.35S	1716.87E	==>	1729.53	40.60015625	-104.70792547
9423.00	90.21	91.14	7216.45	308.34S	1816.85E	==>	1829.49	40.60014833	-104.70756551
9523.00	90.21	91.14	7216.09	310.33S	1916.83E	==>	1929.45	40.60014042	-104.70720556
9623.00	90.21	91.14	7215.73	312.32S	2016.81E	==>	2029.41	40.60013250	-104.70684560
9723.00	90.21	91.14	7215.37	314.31S	2116.79E	==>	2129.37	40.60012459	-104.70648565
9823.00	90.21	91.14	7215.01	316.30S	2216.76E	==>	2229.34	40.60011667	-104.70612569
9923.00	90.21	91.14	7214.66	318.28S	2316.74E	==>	2329.30	40.60010875	-104.70576574
10023.00	90.21	91.14	7214.30	320.27S	2416.72E	==>	2429.26	40.60010083	-104.70540578
10123.00	90.21	91.14	7213.94	322.26S	2516.70E	==>	2529.22	40.60009291	-104.70504583
10223.00	90.21	91.14	7213.58	324.25S	2616.68E	==>	2629.18	40.60008499	-104.70468588
10323.00	90.21	91.14	7213.22	326.24S	2716.66E	==>	2729.14	40.60007706	-104.70432592
10423.00	90.21	91.14	7212.87	328.23S	2816.64E	==>	2829.10	40.60006914	-104.70396597
10523.00	90.21	91.14	7212.51	330.22S	2916.62E	==>	2929.06	40.60006121	-104.70360601
10623.00	90.21	91.14	7212.15	332.21S	3016.60E	==>	3029.02	40.60005328	-104.70324606
10723.00	90.21	91.14	7211.79	334.20S	3116.58E	==>	3128.98	40.60004536	-104.70288611
10823.00	90.21	91.14	7211.43	336.19S	3216.56E	==>	3228.94	40.60003743	-104.70252615
10923.00	90.21	91.14	7211.08	338.18S	3316.54E	==>	3328.90	40.60002950	-104.70216620
11023.00	90.21	91.14	7210.72	340.17S	3416.52E	==>	3428.86	40.60002157	-104.70180625
11123.00	90.21	91.14	7210.36	342.16S	3516.50E	==>	3528.82	40.60001363	-104.70144629
11223.00	90.21	91.14	7210.00	344.15S	3616.48E	==>	3628.78	40.60000570	-104.70108634
11323.00	90.21	91.14	7209.64	346.14S	3716.46E	==>	3728.74	40.59999777	-104.70072639
11423.00	90.21	91.14	7209.29	348.13S	3816.44E	==>	3828.70	40.59998983	-104.70036643
11523.00	90.21	91.14	7208.93	350.12S	3916.42E	==>	3928.67	40.59998189	-104.70000648
11623.00	90.21	91.14	7208.57	352.11S	4016.40E	==>	4028.63	40.59997396	-104.69964653
11723.00	90.21	91.14	7208.21	354.10S	4116.38E	==>	4128.59	40.59996602	-104.69928657
11823.00	90.21	91.14	7207.85	356.09S	4216.36E	==>	4228.55	40.59995808	-104.69892662
11923.00	90.21	91.14	7207.50	358.08S	4316.34E	==>	4328.51	40.59995014	-104.69856667
12023.00	90.21	91.14	7207.14	360.07S	4416.31E	==>	4428.47	40.59994219	-104.69820672
12123.00	90.21	91.14	7206.78	362.06S	4516.29E	==>	4528.43	40.59993425	-104.69784676
12223.00	90.21	91.14	7206.42	364.05S	4616.27E	==>	4628.39	40.59992630	-104.69748681
12323.00	90.21	91.14	7206.06	366.04S	4716.25E	==>	4728.35	40.59991836	-104.69712686
12423.00	90.21	91.14	7205.71	368.03S	4816.23E	==>	4828.31	40.59991041	-104.69676691
12523.00	90.21	91.14	7205.35	370.02S	4916.21E	==>	4928.27	40.59990246	-104.69640696
12623.00	90.21	91.14	7204.99	372.01S	5016.19E	==>	5028.23	40.59989452	-104.69604700
12723.00	90.21	91.14	7204.63	374.00S	5116.17E	==>	5128.19	40.59988657	-104.69568705
12823.00	90.21	91.14	7204.27	375.99S	5216.15E	==>	5228.15	40.59987861	-104.69532710
12923.00	90.21	91.14	7203.92	377.98S	5316.13E	==>	5328.11	40.59987066	-104.69496715
13023.00	90.21	91.14	7203.56	379.97S	5416.11E	==>	5428.07	40.59986271	-104.69460720
13123.00	90.21	91.14	7203.20	381.96S	5516.09E	==>	5528.03	40.59985475	-104.69424724
13223.00	90.21	91.14	7202.84	383.95S	5616.07E	==>	5628.00	40.59984680	-104.69388729
13323.00	90.21	91.14	7202.48	385.94S	5716.05E	==>	5727.96	40.59983884	-104.69352734
13423.00	90.21	91.14	7202.13	387.93S	5816.03E	==>	5827.92	40.59983088	-104.69316739
13523.00	90.21	91.14	7201.77	389.92S	5916.01E	==>	5927.88	40.59982292	-104.69280744
13623.00	90.21	91.14	7201.41	391.91S	6015.99E	==>	6027.84	40.59981496	-104.69244749
13723.00	90.21	91.14	7201.05	393.90S	6115.97E	==>	6127.80	40.59980700	-104.69208754
13823.00	90.21	91.14	7200.69	395.89S	6215.95E	==>	6227.76	40.59979904	-104.69172759
13923.00	90.21	91.14	7200.34	397.88S	6315.93E	==>	6327.72	40.59979108	-104.69136763
14023.00	90.21	91.14	7199.98	399.87S	6415.91E	==>	6427.68	40.59978311	-104.69100768
14123.00	90.21	91.14	7199.62	401.86S	6515.89E	==>	6527.64	40.59977515	-104.69064773
14223.00	90.21	91.14	7199.26	403.85S	6615.87E	==>	6627.60	40.59976718	-104.69028778
14323.00	90.21	91.14	7198.90	405.84S	6715.84E	==>	6727.56	40.59975921	-104.68992783
14423.00	90.21	91.14	7198.55	407.83S	6815.82E	==>	6827.52	40.59975124	-104.68956788

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SYSDRILL
Well Design Combined Report
Wellbore: TOPAZ EAST 18 (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)
14523.00	90.21	91.14	7198.19	409.82S	6915.80E	==>	6927.48	40.59974327	-104.68920793
14623.00	90.21	91.14	7197.83	411.81S	7015.78E	==>	7027.44	40.59973530	-104.68884798
14723.00	90.21	91.14	7197.47	413.80S	7115.76E	==>	7127.40	40.59972733	-104.68848803
14823.00	90.21	91.14	7197.11	415.79S	7215.74E	==>	7227.36	40.59971935	-104.68812808
14923.00	90.21	91.14	7196.76	417.78S	7315.72E	==>	7327.32	40.59971138	-104.68776813
15023.00	90.21	91.14	7196.40	419.77S	7415.70E	==>	7427.29	40.59970340	-104.68740818
15123.00	90.21	91.14	7196.04	421.76S	7515.68E	==>	7527.25	40.59969543	-104.68704823
15223.00	90.21	91.14	7195.68	423.75S	7615.66E	==>	7627.21	40.59968745	-104.68668828
15323.00	90.21	91.14	7195.32	425.74S	7715.64E	==>	7727.17	40.59967947	-104.68632833
15423.00	90.21	91.14	7194.97	427.73S	7815.62E	==>	7827.13	40.59967149	-104.68596838
15523.00	90.21	91.14	7194.61	429.72S	7915.60E	==>	7927.09	40.59966351	-104.68560843
15623.00	90.21	91.14	7194.25	431.71S	8015.58E	==>	8027.05	40.59965553	-104.68524848
15723.00	90.21	91.14	7193.89	433.70S	8115.56E	==>	8127.01	40.59964754	-104.68488853
15823.00	90.21	91.14	7193.53	435.69S	8215.54E	==>	8226.97	40.59963956	-104.68452858
15923.00	90.21	91.14	7193.18	437.68S	8315.52E	==>	8326.93	40.59963157	-104.68416863
16023.00	90.21	91.14	7192.82	439.67S	8415.50E	==>	8426.89	40.59962359	-104.68380868
16123.00	90.21	91.14	7192.46	441.66S	8515.48E	==>	8526.85	40.59961560	-104.68344873
16223.00	90.21	91.14	7192.10	443.65S	8615.46E	==>	8626.81	40.59960761	-104.68308879
16323.00	90.21	91.14	7191.74	445.64S	8715.44E	==>	8726.77	40.59959962	-104.68272884
16423.00	90.21	91.14	7191.39	447.63S	8815.42E	==>	8826.73	40.59959163	-104.68236889
16523.00	90.21	91.14	7191.03	449.62S	8915.40E	==>	8926.69	40.59958363	-104.68200894
16623.00	90.21	91.14	7190.67	451.61S	9015.37E	==>	9026.65	40.59957564	-104.68164899
16723.00	90.21	91.14	7190.31	453.60S	9115.35E	==>	9126.62	40.59956765	-104.68128904
16823.00	90.21	91.14	7189.95	455.59S	9215.33E	==>	9226.58	40.59955965	-104.68092909
16923.00	90.21	91.14	7189.60	457.58S	9315.31E	==>	9326.54	40.59955165	-104.68056915
17023.00	90.21	91.14	7189.24	459.57S	9415.29E	==>	9426.50	40.59954365	-104.68020920
17123.00	90.21	91.14	7188.88	461.56S	9515.27E	==>	9526.46	40.59953566	-104.67984925
17223.00	90.21	91.14	7188.52	463.55S	9615.25E	==>	9626.42	40.59952766	-104.67948930
17323.00	90.21	91.14	7188.16	465.54S	9715.23E	==>	9726.38	40.59951965	-104.67912935
17368.66	90.21	91.14	7188.00	466.45S	9760.88E	==>	9772.02	40.59951600	-104.67896500

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Targets

Name	North[ft]	East[ft]	TVD[ft]	Latitude	Longitude	Northing	Easting
TOPAZ EAST 18 - LP Nio A	271.91S	13.14W	7223.00	40.60029300	-104.71415400	1462495.19	3218216.74
TOPAZ EAST 18 - BHL Nio A	466.45S	9760.88E	7188.00	40.59951600	-104.67896500	1462300.66	3227990.51

Survey Tool Program

Reference	Survey Name	MD[ft]	TVD[ft]	Survey Tool	Error Model
1034997	Planned	1523.00	1523.00	WdW Rate Gyro	Standard
1034996	Planned	17368.66	7188.00	ISCWSA MWD	Rev 4 + SAG + FLT

Notes

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