

ACTUAL WELLPATH REPORT (CSV version)

Prepared by Baker Hughes

Software System: WellArchitect® 4.0.0

REFERENCE WELLPATH IDENTIFICATION

Operator Cimarex Energy Co.

Area Lea County, NM

Field (James Federal) Sec 29, TS 23 S, R 32 E

Facility James Federal No. 38

Slot No. 38H SHL

Well No. 38H AWB ST01

Wellbore No. 38H AWB ST01

Wellpath No. 38H ST01 AWB

Sidetrack No. 38H AWB at 6033.45 MD

REPORT SETUP INFORMATION

Projection NAD83 / TM New Mexico SP, Eastern Zone (3001), US feet

North Refe Grid

Scale 0.999954

Convergen 0.34° East

Software S WellArchitect® 4.0.0

User Abraall

Report Ger 11/11/2014 at 9:35:06 AM

DataBase/ WA_Midland/ev2829.xml

WELLPATH Local North	Local East	Easting	Northing	Latitude	Longitude
[ft]	[ft]	[US ft]	[US ft]		
Slot Locatic	0	0	738420.5	466875.2	32°16'54.8 103°41'44.174"W
Facility Ref			738420.5	466875.2	32°16'54.8 103°41'44.174"W
Field Refer		165000		0 30°59'39.8	105°32'03.866"W

WELLPATH DATUM

Calculation Minimum curvature

Horizontal Slot

30-025-41852

NOV 05 2015

Vertical Re Rig on No. 38H SHL (KB)
 MD Refere Rig on No. 38H SHL (KB)
 Field Vertic Mean Sea Level
 Rig on No. 25.00ft
 Rig on No. 3714.00ft
 Rig on No. 25.00ft
 Section Ori N 0.00, E 0.00 ft
 Section Azi 180.99°

WELLPATH DATA † = interpolated/extrapolated station

	MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	DLS
	[ft]	[°]	[°]	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]			[°/100ft]
†	0	0	48.75	0	0	0	0	738420.5	466875.2	32°16'54.8	103°41'44.	0
	25	0	48.75	25	0	0	0	738420.5	466875.2	32°16'54.8	103°41'44.	0
	49.99	0.48	48.75	49.99	-0.07	0.07	0.08	738420.6	466875.3	32°16'54.8	103°41'44.	1.92
	98.6	1.49	343.75	98.59	-0.81	0.81	0.05	738420.6	466876	32°16'54.8	103°41'44.	2.8
	142.69	0.62	113.52	142.68	-1.27	1.27	0.11	738420.6	466876.5	32°16'54.8	103°41'44.	4.41
	167.25	0.88	14.91	167.24	-1.4	1.39	0.28	738420.8	466876.6	32°16'54.8	103°41'44.	4.68
	227.52	0.79	11.44	227.5	-2.26	2.25	0.49	738421	466877.5	32°16'54.8	103°41'44.	0.17
	266.92	0.88	5.02	266.9	-2.83	2.82	0.57	738421.1	466878	32°16'54.8	103°41'44.	0.33
	298.49	0.88	8.32	298.46	-3.31	3.3	0.62	738421.1	466878.5	32°16'54.8	103°41'44.	0.16
	331.45	0.7	11.92	331.42	-3.76	3.75	0.7	738421.2	466879	32°16'54.8	103°41'44.	0.57
	392.34	0.7	356.71	392.31	-4.49	4.48	0.76	738421.3	466879.7	32°16'54.8	103°41'44.	0.3
	426.43	0.7	6.91	426.39	-4.91	4.9	0.77	738421.3	466880.1	32°16'54.9	103°41'44.	0.37
	482.67	0.79	4.14	482.63	-5.64	5.62	0.84	738421.3	466880.8	32°16'54.9	103°41'44.	0.17
	573.84	0.62	6.13	573.79	-6.76	6.74	0.94	738421.4	466881.9	32°16'54.9	103°41'44.	0.19
	664.82	0.62	355.84	664.77	-7.74	7.72	0.95	738421.5	466882.9	32°16'54.9	103°41'44.	0.12
	755.78	0.79	2.21	755.72	-8.85	8.84	0.94	738421.4	466884	32°16'54.9	103°41'44.	0.21
	845.51	0.79	346.12	845.44	-10.07	10.06	0.82	738421.3	466885.3	32°16'54.9	103°41'44.	0.25
	936.55	0.88	339.44	936.47	-11.33	11.32	0.42	738420.9	466886.5	32°16'54.9	103°41'44.	0.15
	1031.48	0.88	350.34	1031.39	-12.72	12.72	0.04	738420.5	466887.9	32°16'54.9	103°41'44.	0.18
	1125.71	1.01	342.61	1125.61	-14.22	14.23	-0.33	738420.2	466889.4	32°16'54.9	103°41'44.	0.19
	1146.32	0.88	337.82	1146.21	-14.54	14.55	-0.44	738420.1	466889.8	32°16'54.9	103°41'44.	0.74

1218.43	1.01	340.54	1218.31	-15.64	15.66	-0.86	738419.6	466890.9	32°16'55.0	103°41'44.	0.19
1387.31	0.79	339.22	1387.17	-18.12	18.15	-1.77	738418.7	466893.4	32°16'55.0	103°41'44.	0.13
1482.81	0.62	317.91	1482.67	-19.11	19.15	-2.35	738418.2	466894.4	32°16'55.0	103°41'44.	0.32
1576.36	0.88	327.62	1576.21	-20.08	20.13	-3.07	738417.4	466895.3	32°16'55.0	103°41'44.	0.31
1671.03	0.88	322.83	1670.87	-21.26	21.33	-3.9	738416.6	466896.5	32°16'55.0	103°41'44.	0.08
1763.41	0.7	324.15	1763.24	-22.26	22.35	-4.66	738415.8	466897.6	32°16'55.0	103°41'44.	0.2
1858.43	0.79	321.82	1858.25	-23.24	23.33	-5.41	738415.1	466898.5	32°16'55.0	103°41'44.	0.1
1952.22	0.88	315.71	1952.03	-24.24	24.36	-6.31	738414.2	466899.6	32°16'55.0	103°41'44.	0.13
2046.1	0.79	314.53	2045.9	-25.2	25.33	-7.27	738413.2	466900.5	32°16'55.1	103°41'44.	0.1
2141.96	0.79	308.81	2141.75	-26.06	26.21	-8.26	738412.2	466901.4	32°16'55.1	103°41'44.	0.08
2235.48	1.1	303.54	2235.26	-26.94	27.11	-9.51	738411	466902.3	32°16'55.1	103°41'44.	0.34
2329.19	0.88	300.33	2328.95	-27.77	27.97	-10.88	738409.6	466903.2	32°16'55.1	103°41'44.	0.24
2419.95	1.01	301.34	2419.7	-28.52	28.73	-12.17	738408.3	466903.9	32°16'55.1	103°41'44.	0.14
2516.44	1.01	310.53	2516.18	-29.49	29.73	-13.54	738407	466904.9	32°16'55.1	103°41'44.	0.17
2611.29	1.01	313.21	2611.01	-30.58	30.84	-14.78	738405.7	466906	32°16'55.1	103°41'44.	0.05
2706.39	1.19	306.75	2706.09	-31.72	32.01	-16.19	738404.3	466907.2	32°16'55.1	103°41'44.	0.23
2802.3	1.1	318.13	2801.99	-32.98	33.29	-17.6	738402.9	466908.5	32°16'55.1	103°41'44.	0.25
2897.29	1.19	311.45	2896.96	-34.29	34.62	-18.95	738401.6	466909.8	32°16'55.1	103°41'44.	0.17
2991.79	1	324.72	2991.44	-35.59	35.95	-20.16	738400.3	466911.1	32°16'55.2	103°41'44.	0.33
3085.96	1.41	319.01	3085.59	-37.11	37.49	-21.39	738399.1	466912.7	32°16'55.2	103°41'44.	0.45
3177.33	1.49	319.84	3176.93	-38.84	39.25	-22.9	738397.6	466914.5	32°16'55.2	103°41'44.	0.09
3270.99	1.49	324.81	3270.56	-40.74	41.17	-24.38	738396.1	466916.4	32°16'55.2	103°41'44.	0.14
3367.66	1.71	332.02	3367.19	-43.02	43.47	-25.78	738394.7	466918.7	32°16'55.2	103°41'44.	0.31
3461.91	1.8	325.65	3461.4	-45.46	45.94	-27.28	738393.2	466921.1	32°16'55.3	103°41'44.	0.23
3556.98	1.89	329.91	3556.42	-48.02	48.53	-28.91	738391.6	466923.7	32°16'55.3	103°41'44.	0.17
3652.4	1.89	330.13	3651.78	-50.72	51.25	-30.48	738390	466926.5	32°16'55.3	103°41'44.	0.01
3748.01	2.2	324.33	3747.33	-53.54	54.11	-32.34	738388.2	466929.3	32°16'55.3	103°41'44.	0.39
3843.06	2.11	329.42	3842.32	-56.5	57.1	-34.29	738386.2	466932.3	32°16'55.4	103°41'44.	0.22
3936.69	2.2	324.15	3935.88	-59.4	60.04	-36.22	738384.3	466935.2	32°16'55.4	103°41'44.	0.23
4033.11	1.8	332.15	4032.24	-62.21	62.88	-38.01	738382.5	466938.1	32°16'55.4	103°41'44.	0.5
4127.1	1.58	331.23	4126.19	-64.63	65.32	-39.32	738381.2	466940.5	32°16'55.5	103°41'44.	0.24
4222.84	1.49	338.35	4221.9	-66.92	67.63	-40.42	738380.1	466942.8	32°16'55.5	103°41'44.	0.22
4318.16	1.1	330.35	4317.19	-68.85	69.58	-41.33	738379.2	466944.8	32°16'55.5	103°41'44.	0.45
4413.82	0.7	342.92	4412.84	-70.2	70.94	-41.95	738378.6	466946.1	32°16'55.5	103°41'44.	0.46

4509	0.4	348.72	4508.02	-71.08	71.82	-42.19	738378.3	466947 32°16'55.5 103°41'44.	0.32
4808	0.22	353.73	4807.01	-72.67	73.41	-42.46	738378.1	466948.6 32°16'55.5 103°41'44.	0.06
4903	0.09	298.14	4902.01	-72.88	73.63	-42.54	738378	466948.8 32°16'55.5 103°41'44.	0.19
4998	0.22	267.33	4997.01	-72.9	73.66	-42.79	738377.7	466948.9 32°16'55.5 103°41'44.	0.16
5093	0.22	270.32	5092.01	-72.89	73.65	-43.16	738377.4	466948.9 32°16'55.5 103°41'44.	0.01
5188	0.22	278.23	5187.01	-72.91	73.68	-43.52	738377	466948.9 32°16'55.5 103°41'44.	0.03
5282	0.4	299.63	5281.01	-73.09	73.86	-43.98	738376.5	466949.1 32°16'55.5 103°41'44.	0.22
5376	0.62	296.82	5375	-73.47	74.26	-44.72	738375.8	466949.5 32°16'55.5 103°41'44.	0.24
5470	0.7	305.43	5469	-74.02	74.82	-45.64	738374.9	466950 32°16'55.5 103°41'44.	0.14
5561.42	0.7	303.32	5560.41	-74.63	75.45	-46.56	738373.9	466950.6 32°16'55.6 103°41'44.	0.03
5655.82	0.48	312.33	5654.81	-75.2	76.03	-47.34	738373.2	466951.2 32°16'55.6 103°41'44.	0.25
5749	0.62	307.85	5747.98	-75.76	76.6	-48.03	738372.5	466951.8 32°16'55.6 103°41'44.	0.16
5842.93	0.48	304.55	5841.91	-76.28	77.14	-48.75	738371.8	466952.3 32°16'55.6 103°41'44.	0.15
5938.14	0.48	318.04	5937.11	-76.79	77.66	-49.35	738371.2	466952.9 32°16'55.6 103°41'44.	0.12
6033.45	0.62	312.11	6032.42	-77.43	78.3	-50	738370.5	466953.5 32°16'55.6 103°41'44.	0.16
6117	2.81	2.65	6115.93	-79.77	80.65	-50.24	738370.3	466955.9 32°16'55.6 103°41'44.	2.95
6130	3.69	7.44	6128.91	-80.5	81.39	-50.17	738370.3	466956.6 32°16'55.6 103°41'44.	7.08
6225	6.02	12.23	6223.56	-88.43	89.29	-48.72	738371.8	466964.5 32°16'55.7 103°41'44.	2.49
6320	6.02	10.65	6318.04	-98.23	99.05	-46.74	738373.8	466974.3 32°16'55.8 103°41'44.	0.17
6414	5.89	11.35	6411.53	-107.83	108.62	-44.88	738375.6	466983.8 32°16'55.9 103°41'44.	0.16
6509	5.89	11.35	6506.03	-117.42	118.18	-42.96	738377.5	466993.4 32°16'56.0 103°41'44.	0
6603	5.8	12.23	6599.54	-126.82	127.55	-41.01	738379.5	467002.8 32°16'56.1 103°41'44.	0.14
6699	5.8	11.29	6695.05	-136.35	137.05	-39.03	738381.5	467012.2 32°16'56.2 103°41'44.	0.1
6793	6.02	13.02	6788.55	-145.85	146.51	-36.99	738383.5	467021.7 32°16'56.3 103°41'44.	0.3
6888	4.22	10.43	6883.17	-154.17	154.8	-35.23	738385.3	467030 32°16'56.3 103°41'44.	1.91
6983	2.68	9.42	6977.99	-159.81	160.43	-34.24	738386.3	467035.6 32°16'56.4 103°41'44.	1.62
7077	2.5	6.65	7071.9	-164.03	164.64	-33.64	738386.9	467039.8 32°16'56.4 103°41'44.	0.23
7172	2.42	6.72	7166.81	-168.09	168.69	-33.16	738387.3	467043.9 32°16'56.5 103°41'44.	0.08
7266	2.11	5.94	7260.73	-171.78	172.38	-32.75	738387.8	467047.6 32°16'56.5 103°41'44.	0.33
7360	1.58	355.75	7354.69	-174.8	175.39	-32.67	738387.8	467050.6 32°16'56.5 103°41'44.	0.66
7453	0.8	355.13	7447.66	-176.72	177.32	-32.82	738387.7	467052.5 32°16'56.6 103°41'44.	0.84
7548	0.7	341.33	7542.66	-177.93	178.53	-33.06	738387.4	467053.7 32°16'56.6 103°41'44.	0.22
7642	0.79	341.42	7636.65	-179.08	179.69	-33.45	738387.1	467054.9 32°16'56.6 103°41'44.	0.1
7737	0.62	3.44	7731.64	-180.21	180.82	-33.63	738386.9	467056 32°16'56.6 103°41'44.	0.33

7831	0.48	14.51	7825.64	-181.1	181.71	-33.5	738387	467056.9 32°16'56.6 103°41'44.	0.19
7924	0.48	13.63	7918.63	-181.86	182.46	-33.31	738387.2	467057.7 32°16'56.6 103°41'44.	0.01
8019	0.4	20.45	8013.63	-182.56	183.16	-33.1	738387.4	467058.4 32°16'56.6 103°41'44.	0.1
8114	0.31	45.23	8108.63	-183.06	183.65	-32.8	738387.7	467058.8 32°16'56.6 103°41'44.	0.19
8209	0.4	61.71	8203.63	-183.4	183.99	-32.33	738388.2	467059.2 32°16'56.6 103°41'44.	0.14
8304	0.22	62.94	8298.63	-183.65	184.23	-31.88	738388.6	467059.4 32°16'56.6 103°41'44.	0.19
8398	0.22	118.53	8392.63	-183.65	184.23	-31.56	738389	467059.4 32°16'56.6 103°41'44.	0.22
8493	0.31	153.64	8487.62	-183.34	183.91	-31.28	738389.2	467059.1 32°16'56.6 103°41'44.	0.19
8588	0.4	182.91	8582.62	-182.78	183.35	-31.18	738389.3	467058.5 32°16'56.6 103°41'44.	0.21
8671	0.4	202.42	8665.62	-182.22	182.79	-31.31	738389.2	467058 32°16'56.6 103°41'44.	0.16
8724	0.48	244.44	8718.62	-181.95	182.52	-31.58	738388.9	467057.7 32°16'56.6 103°41'44.	0.61
8756	2.32	211.14	8750.61	-181.33	181.91	-32.04	738388.5	467057.1 32°16'56.6 103°41'44.	6.05
8787	5.8	205.8	8781.53	-179.36	179.96	-33.04	738387.5	467055.2 32°16'56.6 103°41'44.	11.28
8818	9.21	204.33	8812.26	-175.66	176.29	-34.75	738385.8	467051.5 32°16'56.6 103°41'44.	11.02
8850	11.96	207.02	8843.71	-170.33	171	-37.31	738383.2	467046.2 32°16'56.6 103°41'44.	8.73
8882	15.23	206.82	8874.81	-163.57	164.3	-40.71	738379.8	467039.5 32°16'56.6 103°41'44.	10.22
8913	18.2	205.51	8904.5	-155.5	156.29	-44.64	738375.9	467031.5 32°16'56.6 103°41'44.	9.66
8944	21.53	203.47	8933.65	-145.83	146.7	-48.99	738371.5	467021.9 32°16'56.6 103°41'44.	10.97
8976	24.54	201.03	8963.09	-134.16	135.11	-53.71	738366.8	467010.3 32°16'56.6 103°41'44.	9.87
9008	27.68	198.56	8991.82	-120.83	121.86	-58.46	738362	466997.1 32°16'56.6 103°41'44.	10.38
9039	30.46	194.09	9018.92	-106.31	107.41	-62.67	738357.8	466982.6 32°16'55.9 103°41'44.	11.37
9070	33.16	191.24	9045.26	-90.31	91.47	-66.24	738354.3	466966.7 32°16'55.7 103°41'44.	9.96
9101	35.62	189.17	9070.84	-73.02	74.24	-69.33	738351.2	466949.4 32°16'55.5 103°41'44.	8.79
9132	37.68	187.12	9095.71	-54.66	55.92	-71.94	738348.6	466931.1 32°16'55.4 103°41'45.	7.73
9163	39.7	184.75	9119.91	-35.36	36.65	-73.94	738346.6	466911.9 32°16'55.2 103°41'45.	8.08
9195	41.78	181.69	9144.16	-14.5	15.8	-75.1	738345.4	466891 32°16'55.0 103°41'45.	9.01
9226	43.41	180.83	9166.98	6.48	-5.17	-75.56	738345	466870 32°16'54.8 103°41'45.	5.58
9258	45.71	180.57	9189.78	28.93	-27.62	-75.83	738344.7	466847.6 32°16'54.5 103°41'45.	7.21
9289	48.25	181.58	9210.93	51.59	-50.28	-76.26	738344.3	466824.9 32°16'54.3 103°41'45.	8.53
9321	50.62	182.41	9231.73	75.9	-74.57	-77.11	738343.4	466800.6 32°16'54.1 103°41'45.	7.66
9352	52.21	182.2	9251.07	100.12	-98.78	-78.08	738342.4	466776.4 32°16'53.8 103°41'45.	5.16
9384	54.5	181.89	9270.17	125.79	-124.44	-79	738341.5	466750.8 32°16'53.6 103°41'45.	7.2
9415	57.75	181.36	9287.44	151.52	-150.16	-79.72	738340.8	466725 32°16'53.3 103°41'45.	10.58
9447	60.57	180.62	9303.84	179	-177.63	-80.2	738340.3	466697.6 32°16'53.1 103°41'45.	9.03

9478	62.22	180.08	9318.69	206.21	-204.85	-80.36	738340.1	466670.4	32°16'52.8 103°41'45.	5.54
9510	64.36	179.24	9333.07	234.79	-233.43	-80.19	738340.3	466641.8	32°16'52.5 103°41'45.	7.09
9542	66.82	178.36	9346.29	263.9	-262.56	-79.58	738340.9	466612.7	32°16'52.2 103°41'45.	8.08
9573	69.38	178.35	9357.85	292.63	-291.31	-78.75	738341.8	466583.9	32°16'51.9 103°41'45.	8.26
9604	72.61	179.1	9367.95	321.91	-320.61	-78.1	738342.4	466554.6	32°16'51.6 103°41'45.	10.67
9636	76.3	180.04	9376.52	352.73	-351.43	-77.87	738342.6	466523.8	32°16'51.3 103°41'45.	11.87
9737	83.73	180.04	9394.02	452.11	-450.83	-77.94	738342.6	466424.4	32°16'50.3 103°41'45.	7.36
9769	86.51	180.51	9396.74	483.99	-482.71	-78.1	738342.4	466392.5	32°16'50.0 103°41'45.	8.81
9832	89.17	180.24	9399.12	546.94	-545.66	-78.51	738342	466329.6	32°16'49.4 103°41'45.	4.24
9927	88.33	180.02	9401.19	641.9	-640.64	-78.72	738341.8	466234.6	32°16'48.5 103°41'45.	0.91
10022	89.32	180.24	9403.14	736.87	-735.61	-78.94	738341.6	466139.6	32°16'47.5 103°41'45.	1.07
10116	89.54	180.68	9404.07	830.86	-829.61	-79.69	738340.8	466045.6	32°16'46.6 103°41'45.	0.52
10211	88.95	179.79	9405.33	925.85	-924.6	-80.08	738340.4	465950.7	32°16'45.7 103°41'45.	1.12
10305	93.79	180.18	9403.08	1019.78	-1018.54	-80.06	738340.5	465856.7	32°16'44.7 103°41'45.	5.17
10401	91.51	179.71	9398.64	1115.65	-1114.43	-79.97	738340.5	465760.8	32°16'43.8 103°41'45.	2.42
10495	92.35	180.22	9395.48	1209.58	-1208.38	-79.91	738340.6	465666.9	32°16'42.9 103°41'45.	1.05
10591	89.94	180	9393.56	1305.54	-1304.35	-80.09	738340.4	465570.9	32°16'41.9 103°41'45.	2.52
10685	90.37	179.85	9393.3	1399.53	-1398.35	-79.97	738340.5	465476.9	32°16'41.0 103°41'45.	0.48
10780	89.38	180.08	9393.51	1494.51	-1493.35	-79.91	738340.6	465381.9	32°16'40.0 103°41'45.	1.07
10875	88	180.15	9395.68	1589.47	-1588.32	-80.1	738340.4	465287	32°16'39.1 103°41'45.	1.45
10970	86.54	179.99	9400.21	1684.35	-1683.21	-80.22	738340.3	465192.1	32°16'38.2 103°41'45.	1.55
11065	87.25	179.99	9405.35	1779.19	-1778.07	-80.2	738340.3	465097.2	32°16'37.2 103°41'45.	0.75
11160	88.21	179.62	9409.12	1874.1	-1872.99	-79.88	738340.6	465002.3	32°16'36.3 103°41'45.	1.08
11255	89.17	179	9411.29	1969.03	-1967.96	-78.73	738341.8	464907.3	32°16'35.3 103°41'45.	1.2
11350	89.97	178.62	9412	2063.96	-2062.94	-76.76	738343.7	464812.4	32°16'34.4 103°41'45.	0.93
11444	90.09	179.26	9411.95	2157.9	-2156.92	-75.02	738345.5	464718.4	32°16'33.5 103°41'45.	0.69
11539	89.11	178.8	9412.61	2252.84	-2251.9	-73.41	738347.1	464623.4	32°16'32.5 103°41'45.	1.14
11634	90.12	177.94	9413.25	2347.73	-2346.86	-70.71	738349.8	464528.5	32°16'31.6 103°41'45.	1.4
11728	89.17	177.85	9413.84	2441.59	-2440.79	-67.26	738353.2	464434.5	32°16'30.7 103°41'45.	1.02
11823	90.25	178.37	9414.32	2536.47	-2535.74	-64.13	738356.4	464339.6	32°16'29.7 103°41'45.	1.26
11918	87.84	179.72	9415.9	2631.39	-2630.7	-62.54	738358	464244.6	32°16'28.8 103°41'45.	2.91
12013	89.88	179.55	9417.79	2726.34	-2725.68	-61.94	738358.6	464149.7	32°16'27.8 103°41'45.	2.15
12107	88.89	178.74	9418.8	2820.29	-2819.66	-60.53	738360	464055.7	32°16'26.9 103°41'45.	1.36
12202	90.37	177.87	9419.41	2915.18	-2914.61	-57.72	738362.8	463960.7	32°16'26.0 103°41'45.	1.81

12297	91.48	178.69	9417.88	3010.05	-3009.56	-54.87	738365.6	463865.8	32°16'25.0	103°41'45.0	1.45
12392	90.65	178.66	9416.11	3104.96	-3104.51	-52.68	738367.8	463770.8	32°16'24.1	103°41'45.0	0.87
12487	91.54	180.84	9414.3	3199.91	-3199.49	-52.26	738368.2	463675.9	32°16'23.1	103°41'45.0	2.48
12581	90.99	180.03	9412.22	3293.88	-3293.46	-52.98	738367.5	463581.9	32°16'22.2	103°41'45.0	1.04
12676	90.19	179.55	9411.24	3388.86	-3388.45	-52.63	738367.9	463486.9	32°16'21.3	103°41'45.0	0.98
12770	89.66	178.8	9411.37	3482.81	-3482.44	-51.27	738369.2	463392.9	32°16'20.3	103°41'45.0	0.98
12865	90.09	179.54	9411.57	3577.76	-3577.43	-49.9	738370.6	463297.9	32°16'19.4	103°41'45.0	0.9
12960	88	179.32	9413.16	3672.71	-3672.41	-48.95	738371.6	463203	32°16'18.5	103°41'44.0	2.21
13055	88.83	180.54	9415.78	3767.65	-3767.37	-48.84	738371.7	463108	32°16'17.5	103°41'45.0	1.55
13150	86.83	179.68	9419.38	3862.57	-3862.3	-49.02	738371.5	463013.1	32°16'16.6	103°41'45.0	2.29
13245	88.74	179.93	9423.05	3957.47	-3957.22	-48.7	738371.8	462918.2	32°16'15.7	103°41'45.0	2.03
13340	91.51	180.78	9422.85	4052.45	-4052.21	-49.29	738371.2	462823.2	32°16'14.7	103°41'45.0	3.05
13435	93.42	182.19	9418.76	4147.35	-4147.08	-51.74	738368.8	462728.3	32°16'13.8	103°41'45.0	2.5
13530	96.02	183.68	9410.94	4241.97	-4241.62	-56.59	738363.9	462633.8	32°16'12.8	103°41'45.0	3.15
13590	97.21	184.03	9404.03	4301.49	-4301.09	-60.6	738359.9	462574.3	32°16'12.2	103°41'45.0	2.07
13640	97.21	184.03	9397.76	4351.03	-4350.57	-64.08	738356.4	462524.8	32°16'11.8	103°41'45.0	0

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape	Comment
No. 38 PBHL		9400	-4623.22	-80.2	738340.3	462252.2	32°16'09.1	103°41'45.0	point	

WELLPATH COMPOSITION Ref Wellbore: No. 38H AWB ST01 Ref Wellpath: No. 38H ST01 AWB

Log Name/	Start MD [ft]	End MD [ft]	Pos Unc	Model
Xtreme Sur	25	6033.45	ISCWSA	MWD, Rev. 2 (Standard)
Xtreme Mv	6033.45	8671	ISCWSA	MWD, Rev. 2 (Standard)
BHI NaviTr	8671	13590	NaviTrak	(Standard)
Projection	13590	13640	Blind Drilling	(std)