

REFERENCE WELLPATH IDENTIFICATION
 Operator CHEVRON APPALACHIA, LLC
 Area Marshall County, WV
 Field Marshall County
 Facility Hicks Pad
 Slot Slot #05
 Well Hicks M05H
 Wellbore Hicks M05H AWB
 Wellpath Hicks M05H AWP Proj: 19637'
 Sidetrack (none)

REPORT SETUP INFORMATION
 Projection NAD83 / Lambert West Virginia SP, Northern Zone (4701), US feet
 North Refe TRUE
 Scale 0.99995
 Convergen 0.78° West
 Software S.WellArchitect® 5.1
 User Mccerrib
 Report Ger 7/19/2019 at 3:44:14 PM
 Database:\WA_MPL_EASTERNUS_Defn\ev190.xml

WELLPATH Local North Local East
 Slot Locatic -58.59 12.7 1626581 501931.8 39°52'18.0 80°43'05.706"W
 Facility Ref 1626569 501990.5 39°52'18.6 80°43'05.869"W
 Field Refer 1644569 516963.8 39°54'48.9 80°39'17.476"W

WELLPATH DATUM
 Calculation Minimum curvature
 Horizontal Slot
 Vertical Re Precision 560 (RKB)
 MD Refere Precision 560 (RKB)
 Field Vertic Mean Sea Level
 Precision 5 25.00ft
 Precision 5 1165.00ft
 Precision 5 25.00ft
 Section Ori N 0.00, E 0.00 ft
 Section Azi 314.84°

WELLPATH DATA t = interpolated/extrapolated station

MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure	Dis	Dir	DLS	Build Rate	Turn Rate	Comments
[ft]	[°]	[°]	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]			[ft]	[°]	[°/100ft]	[°/100ft]	[°/100ft]		
0	0	0	167.79	0	0	0	1626581	501931.8	39°52'18.0	80°43'05.7	0	0	0	0	0	0	
25	0	0	167.79	25	0	0	1626581	501931.8	39°52'18.0	80°43'05.7	0	0	0	0	0	0	
108	0.23	0	167.79	108	-0.14	-0.16	1626581	501931.6	39°52'18.0	80°43'05.7	0.17	167.79	0.28	0.28	0.28	0.28	202.16 SDI Gyro <17-1/2"> (100-450')
133	0.41	0	196.17	133	-0.22	-0.3	1626581	501931.5	39°52'18.0	80°43'05.7	0.3	175.978	0.94	0.72	0.72	113.52	

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158	0.37	202.5	158	0.3	-0.46	-0.03	1626581	501931.3	39°52'18.0	80°43'05.7	0.46	184.351	0.23	-0.16	25.32
183	0.39	202.19	183	-0.36	-0.61	-0.1	1626580	501931.2	39°52'18.0	80°43'05.7	0.62	189.093	0.08	0.08	-1.24
208	0.53	232.6	208	-0.38	-0.76	-0.22	1626580	501931	39°52'18.0	80°43'05.7	0.79	196.262	1.11	0.56	121.64
233	0.53	232.68	233	-0.35	-0.9	-0.41	1626580	501930.9	39°52'18.0	80°43'05.7	0.99	204.241	0	0	0.32
258	0.53	214.98	258	-0.35	-1.07	-0.56	1626580	501930.7	39°52'18.0	80°43'05.7	1.21	207.884	0.65	0	-70.8
283	0.46	206.7	282.99	-0.4	-1.25	-0.68	1626580	501930.5	39°52'18.0	80°43'05.7	1.42	208.376	0.4	-0.28	-33.12
308	0.44	209.91	307.99	-0.46	-1.42	-0.77	1626580	501930.4	39°52'18.0	80°43'05.7	1.62	208.363	0.13	-0.08	12.84
333	0.56	227.63	332.99	-0.48	-1.59	-0.91	1626580	501930.2	39°52'18.0	80°43'05.7	1.83	209.707	0.78	0.48	70.88
358	0.66	230.17	357.99	-0.46	-1.76	-1.11	1626579	501930	39°52'18.0	80°43'05.7	2.08	212.128	0.41	0.4	10.16
383	0.67	218.07	382.99	-0.46	-1.97	-1.31	1626579	501929.8	39°52'18.0	80°43'05.7	2.37	213.575	0.56	0.04	-48.4
408	0.6	219.71	407.99	-0.49	-2.19	-1.48	1626579	501929.6	39°52'18.0	80°43'05.7	2.64	214.127	0.29	-0.28	6.56
433	0.52	225.68	432.99	-0.5	-2.37	-1.65	1626579	501929.4	39°52'18.0	80°43'05.7	2.88	214.832	0.4	-0.32	23.88
458	0.66	227.11	457.99	-0.49	-2.54	-1.83	1626579	501929.3	39°52'18.0	80°43'05.7	3.14	215.782	0.56	0.56	5.72
529	0.9	237.32	528.98	-0.36	-3.12	-2.6	1626578	501928.7	39°52'18.0	80°43'05.7	4.06	219.803	0.39	0.34	14.38
560	0.92	228.21	559.98	-0.29	-3.42	-2.99	1626578	501928.4	39°52'18.0	80°43'05.7	4.54	221.186	0.47	0.06	-29.39
591	0.97	229.25	590.97	-0.25	-3.76	-3.38	1626577	501928.1	39°52'18.0	80°43'05.7	5.05	221.948	0.17	0.16	3.35
607	1.02	226.66	606.97	-0.24	-3.94	-3.58	1626577	501927.9	39°52'18.0	80°43'05.7	5.33	222.259	0.42	0.31	-16.19
623	1.25	220.5	622.97	-0.25	-4.17	-3.8	1626577	501927.6	39°52'18.0	80°43'05.7	5.64	222.316	1.63	1.44	-38.5
654	1.44	229.95	653.96	-0.24	-4.68	-4.32	1626576	501927.1	39°52'18.0	80°43'05.7	6.37	222.685	0.94	0.61	30.48
685	1.3	233.8	684.95	-0.15	-5.14	-4.9	1626576	501926.7	39°52'18.0	80°43'05.7	7.1	223.629	0.54	-0.45	12.42
716	0.37	222.18	715.94	-0.1	-5.42	-5.25	1626575	501926.4	39°52'18.0	80°43'05.7	7.55	224.081	3.03	-3	-37.48
747	0.34	64.03	746.94	-0.13	-5.46	-5.24	1626575	501926.4	39°52'18.0	80°43'05.7	7.56	223.819	2.25	-0.1	-510.16
778	0.64	62.06	777.94	-0.22	-5.33	-5	1626576	501926.5	39°52'18.0	80°43'05.7	7.31	223.145	0.97	0.97	-6.35
810	0.72	57.86	809.94	-0.31	-5.14	-4.67	1626576	501926.7	39°52'18.0	80°43'05.7	6.95	222.246	0.29	0.25	-13.13
841	1.03	58.12	840.94	-0.42	-4.89	-4.27	1626576	501926.9	39°52'18.0	80°43'05.7	6.49	221.111	1	1	0.84
872	1.19	63.15	871.93	-0.59	-4.6	-3.75	1626577	501927.2	39°52'18.0	80°43'05.7	5.93	219.157	0.6	0.52	16.23
903	1.33	62.74	902.92	-0.8	-4.29	-3.14	1626577	501927.5	39°52'18.0	80°43'05.7	5.32	216.193	0.45	0.45	-1.32
934	1.39	62.63	933.91	-1.02	-3.95	-2.49	1626578	501927.9	39°52'18.0	80°43'05.7	4.67	212.163	0.19	0.19	-0.35
966	1.38	65.25	965.91	-1.28	-3.61	-1.79	1626579	501928.2	39°52'18.0	80°43'05.7	4.03	206.367	0.2	-0.03	8.19
997	1.24	60.44	996.9	-1.5	-3.29	-1.16	1626579	501928.5	39°52'18.0	80°43'05.7	3.49	199.417	0.57	-0.45	-15.52
1028	0.84	64.48	1027.89	-1.66	-3.03	-0.66	1626580	501928.8	39°52'18.0	80°43'05.7	3.1	192.355	1.31	-1.29	13.03
1059	0.8	66.15	1058.89	-1.82	-2.84	-0.26	1626580	501928.9	39°52'18.0	80°43'05.7	2.85	185.23	0.15	-0.13	5.39
1091	0.67	53.14	1090.89	-1.93	-2.64	0.09	1626581	501929.1	39°52'18.0	80°43'05.7	2.64	177.964	0.66	-0.41	-40.66
1122	0.4	54.6	1121.89	-1.97	-2.47	0.33	1626581	501929.3	39°52'18.0	80°43'05.7	2.49	172.452	0.87	-0.87	4.71
1153	0.12	307.1	1152.88	-1.96	-2.39	0.39	1626581	501929.4	39°52'18.0	80°43'05.7	2.42	170.731	1.45	-0.9	-346.77
1184	0.56	206.21	1183.88	-1.97	-2.5	0.3	1626581	501929.3	39°52'18.0	80°43'05.7	2.52	173.241	1.92	1.42	-325.45
1215	0.95	216.38	1214.88	-2.06	-2.85	0.08	1626581	501928.9	39°52'18.0	80°43'05.7	2.85	178.445	1.33	1.26	32.81
1247	1.43	215.97	1246.87	-2.16	-3.38	-0.31	1626580	501928.4	39°52'18.0	80°43'05.7	3.4	185.316	1.5	1.5	-1.28
1278	2.02	223.07	1277.86	-2.24	-4.09	-0.91	1626580	501927.7	39°52'18.0	80°43'05.7	4.2	192.598	2.02	1.9	22.9
1309	2.64	225.86	1308.83	-2.24	-4.99	-1.8	1626579	501926.8	39°52'18.0	80°43'05.7	5.31	199.838	2.03	2	9
1340	3.33	233.32	1339.79	-2.1	-6.03	-3.03	1626577	501925.8	39°52'18.0	80°43'05.7	6.75	206.733	2.55	2.23	24.06
1371	3.81	234.13	1370.73	-1.8	-7.17	-4.59	1626576	501924.7	39°52'17.9	80°43'05.7	8.51	212.647	1.56	1.55	2.61
1403	4.18	234.86	1402.65	-1.42	-8.46	-6.41	1626574	501923.4	39°52'17.9	80°43'05.7	10.61	217.134	1.17	1.16	2.28
1434	4.45	234.43	1433.57	-1.03	-9.81	-8.31	1626572	501922.1	39°52'17.9	80°43'05.8	12.86	220.262	0.88	0.87	-1.39
1465	4.81	237.09	1464.47	-0.55	-11.22	-10.38	1626570	501920.7	39°52'17.9	80°43'05.8	15.28	222.777	1.35	1.16	8.58
1496	5.15	238.48	1495.35	0.05	-12.65	-12.66	1626568	501919.3	39°52'17.9	80°43'05.8	17.89	225.012	1.16	1.1	4.48
1527	5.39	236.46	1526.22	0.68	-14.18	-15.06	1626565	501917.8	39°52'17.9	80°43'05.8	20.68	226.711	0.98	0.77	-6.52
1559	5.76	240.02	1558.07	1.4	-15.81	-17.7	1626563	501916.2	39°52'17.9	80°43'05.9	23.73	228.218	1.58	1.16	11.13
1589	6.11	243.58	1587.91	2.31	-17.28	-20.43	1626560	501914.8	39°52'17.9	80°43'05.9	26.76	229.783	1.69	1.17	11.87
1621	6.63	247.6	1619.71	3.57	-18.74	-23.67	1626557	501913.4	39°52'17.8	80°43'06.0	30.19	231.627	2.14	1.63	12.56
1652	7.14	250.09	1650.48	5.08	-20.08	-27.13	1626553	501912.1	39°52'17.8	80°43'06.0	33.75	233.499	1.91	1.65	8.03

AP5 EM + MagVAR MSA <12-1/4"> (458)(529-1995)

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1683	7.4	248.57	1681.24	6.71	-21.46	-30.8	1626549	501910.7	39°52'17.8	80°43'06.1	37.54	235.131	1.04	0.84	-4.9
1714	7.4	246.96	1711.98	8.26	-22.97	-34.5	1626546	501909.3	39°52'17.8	80°43'06.1	41.45	236.338	0.67	0	-5.19
1746	7.68	246.51	1743.7	9.83	-24.63	-38.35	1626542	501907.7	39°52'17.8	80°43'06.1	45.58	237.29	0.89	0.87	-1.41
1777	8.06	246.16	1774.41	11.38	-26.34	-42.24	1626538	501906.39	39°52'17.8	80°43'06.2	49.78	238.058	1.24	1.23	-1.13
1808	8.55	244.6	1805.08	12.95	-28.2	-46.31	1626534	501904.2	39°52'17.7	80°43'06.3	54.22	238.659	1.74	1.58	-5.03
1839	8.21	243.17	1835.75	14.43	-30.19	-50.37	1626530	501902.3	39°52'17.7	80°43'06.3	58.72	239.062	1.29	-1.1	-4.61
1870	7.27	242.49	1866.47	15.72	-32.1	-54.08	1626526	501900.4	39°52'17.7	80°43'06.4	62.89	239.313	3.05	-3.03	-2.19
1901	7.11	242.02	1897.23	16.88	-33.9	-57.52	1626523	501898.7	39°52'17.7	80°43'06.4	66.76	239.484	0.55	-0.52	-1.52
1933	6.84	242.56	1928.99	18.04	-35.71	-60.96	1626519	501896.9	39°52'17.7	80°43'06.4	70.65	239.638	0.87	-0.84	1.69
1964	6.31	243.95	1959.78	19.16	-37.31	-64.13	1626516	501895.3	39°52'17.7	80°43'06.5	74.19	239.81	1.78	-1.71	4.48
1995	6.21	244.46	1990.6	20.28	-38.78	-67.17	1626513	501893.9	39°52'17.6	80°43'06.5	77.56	240.001	0.37	-0.32	1.65
2108	5.85	250.09	2102.98	24.79	-43.37	-78.1	1626502	501889.5	39°52'17.6	80°43'06.7	89.34	240.953	0.61	-0.32	4.98
2198	3.36	251.66	2192.68	27.94	-45.77	-84.92	1626495	501887.2	39°52'17.6	80°43'06.7	96.46	241.677	2.77	-2.77	1.74
2287	1.27	264.3	2281.6	29.74	-46.69	-88.37	1626492	501886.3	39°52'17.6	80°43'06.8	99.95	242.153	2.4	-2.35	14.2
2376	0.51	263.63	2370.59	30.62	-46.83	-89.75	1626490	501886.2	39°52'17.6	80°43'06.8	101.23	242.446	0.85	-0.85	-0.75
2466	0.35	302.4	2460.59	31.14	-46.72	-90.38	1626490	501886.3	39°52'17.6	80°43'06.8	101.74	242.661	0.36	-0.18	43.08
2555	0.35	306.92	2549.59	31.67	-46.42	-90.83	1626489	501886.6	39°52'17.6	80°43'06.8	102	242.931	0.03	0	5.08
2645	0.37	291.11	2639.58	32.21	-46.15	-91.32	1626489	501886.9	39°52'17.6	80°43'06.8	102.31	243.19	0.11	0.02	-17.57
2734	2.18	223.79	2728.56	32.44	-47.26	-92.76	1626487	501885.8	39°52'17.6	80°43'06.8	104.1	242.998	2.32	2.03	-75.64
2824	4.83	247.38	2818.39	33.86	-49.96	-97.44	1626482	501883.1	39°52'17.5	80°43'06.9	109.5	242.855	3.29	2.94	26.21
2913	6.21	252.97	2906.97	37.57	-52.81	-105.5	1626474	501880.4	39°52'17.5	80°43'07.0	117.98	243.409	1.66	1.55	6.28
3003	9.19	261.85	2996.15	44.19	-55.25	-117.27	1626463	501878.1	39°52'17.5	80°43'07.2	129.64	244.772	3.56	3.31	9.87
3092	13.24	263.13	3083.44	54.79	-57.48	-134.43	1626445	501876.1	39°52'17.5	80°43'07.4	146.21	246.849	4.56	4.55	1.44
3182	14.78	254.2	3170.77	66.81	-61.84	-155.72	1626424	501872.1	39°52'17.4	80°43'07.7	167.55	248.34	2.94	1.71	-9.92
3271	15.82	247.16	3256.62	76.98	-69.64	-177.82	1626402	501864.6	39°52'17.3	80°43'07.9	190.97	248.613	2.39	1.17	-7.91
3361	17.07	240.91	3342.94	85.3	-80.83	-200.67	1626379	501853.7	39°52'17.2	80°43'08.2	216.34	248.061	2.41	1.39	-6.94
3450	19.74	235.61	3427.39	91.73	-95.67	-224.5	1626355	501839.2	39°52'17.1	80°43'08.5	244.03	246.918	3.54	3	-5.96
3540	23.88	235.28	3510.93	97.87	-114.64	-252.02	1626327	501820.6	39°52'16.9	80°43'08.9	276.87	245.54	4.6	4.6	-0.37
3629	27.25	234.2	3591.2	104.45	-136.83	-283.37	1626295	501798.8	39°52'16.7	80°43'09.3	314.67	244.226	3.82	3.79	-1.21
3719	30.34	236.62	3670.07	112.44	-161.39	-319.07	1626259	501774.7	39°52'16.4	80°43'09.7	357.56	243.169	3.67	3.43	2.69
3808	31.27	236.61	3746.51	121.74	-186.47	-357.13	1626221	501750.2	39°52'16.2	80°43'10.2	402.88	242.429	1.04	1.04	-0.01
3898	33.61	238.98	3822.47	132.6	-212.17	-397.98	1626180	501725	39°52'15.9	80°43'10.8	451.01	241.938	2.96	2.6	2.63
3987	37.3	238.94	3894.95	145.19	-238.78	-442.21	1626135	501699	39°52'15.7	80°43'11.3	502.56	241.632	4.15	4.15	-0.04
4077	40.86	237.62	3964.8	158.35	-268.63	-490.45	1626087	501669.8	39°52'15.4	80°43'11.9	559.2	241.289	4.06	3.96	-1.47
4166	45	237.23	4029.95	171.54	-301.27	-541.51	1626035	501637.9	39°52'15.0	80°43'12.6	619.68	240.911	4.66	4.65	-0.44
4256	48.12	238.38	4091.83	186.22	-336.06	-596.81	1625979	501603.8	39°52'14.7	80°43'13.3	684.93	240.616	3.59	3.47	1.28
4346	47.24	241.85	4152.43	203.73	-369.22	-654.49	1625921	501571.5	39°52'14.4	80°43'14.1	751.45	240.571	3.01	-0.98	3.86
4436	45.66	245.83	4214.45	224.93	-398	-713	1625862	501543.5	39°52'14.1	80°43'14.8	816.56	240.83	3.65	-1.76	4.42
4525	44.57	249.38	4277.27	249.31	-422.03	-771.27	1625804	501520.3	39°52'13.9	80°43'15.5	879.19	241.313	3.08	-1.22	3.99
4615	43.3	249.38	4342.08	275.24	-444.02	-829.72	1625745	501499.1	39°52'13.6	80°43'16.3	941.06	241.847	1.41	-1.41	0
4704	41.37	246.09	4407.88	298.58	-466.69	-885.18	1625689	501477.1	39°52'13.4	80°43'17.0	1000.67	242.2	3.3	-2.17	-3.7
4794	42.06	243.71	4475.06	319.11	-492.1	-939.4	1625635	501452.5	39°52'13.2	80°43'17.7	1060.49	242.352	1.92	0.77	-2.64
4884	41.63	242.74	4542.11	338.05	-519.15	-993	1625581	501426.2	39°52'12.9	80°43'18.4	1120.52	242.399	0.86	-0.48	-1.08
4973	40.73	245.05	4609.1	357.17	-544.94	-1045.61	1625528	501401.1	39°52'12.6	80°43'19.1	1179.09	242.473	1.99	-1.01	2.6
5062	38.8	244.12	4677.51	376.41	-569.36	-1097.03	1625476	501377.4	39°52'12.4	80°43'19.7	1235.98	242.571	2.27	-2.17	-1.04
5152	38.2	243.21	4747.94	394.49	-594.21	-1147.24	1625425	501353.2	39°52'12.2	80°43'20.4	1292	242.618	0.92	-0.67	-1.01
5242	37.9	241.2	4818.82	411.05	-620.07	-1196.31	1625376	501328	39°52'11.9	80°43'21.0	1347.46	242.601	1.42	-0.33	-2.23
5332	37.39	236.76	4882.96	423.14	-645.54	-1238.69	1625333	501303.1	39°52'11.6	80°43'21.5	1396.81	242.474	3.41	-0.63	-5.48
5412	41.23	237.68	4951.81	435.24	-676.05	-1286.09	1625285	501273.3	39°52'11.3	80°43'22.2	1452.95	242.271	4.36	4.31	1.03
5502	41.32	239.47	5019.46	449.34	-707	-1336.75	1625234	501243	39°52'11.0	80°43'22.8	1512.2	242.126	1.32	0.1	1.99
5591	41.24	240.89	5086.34	464.87	-736.2	-1387.69	1625183	501214.5	39°52'10.7	80°43'23.5	1570.88	242.053	1.06	-0.09	1.6

BH NavTrak + MagVAR MSA <8-1/2"> (1995)(2108-5242)

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BH ATCurve + MagVAR MSA <8-1/2"> (5242)(5323-19612)

5681	40.91	241.35	5154.19	481.45	-764.76	-1439.47	1625131	501186.6	39*52'10.5	80*43'24.1	1630.01	242.019	0.5	-0.37	0.51
5770	40.97	239.96	5221.42	497.34	-793.34	-1490.3	1625080	501158.8	39*52'10.2	80*43'24.8	1688.31	241.972	1.03	0.07	-1.56
5860	40.86	239.31	5289.43	512.39	-823.13	-1541.16	1625028	501129.7	39*52'09.9	80*43'25.4	1747.2	241.893	0.49	-0.12	-0.72
5950	41.04	238.52	5357.41	526.73	-853.59	-1591.68	1624978	501099.9	39*52'09.6	80*43'26.1	1806.11	241.796	0.61	0.2	-0.88
6039	40.94	238.96	5424.59	540.76	-883.88	-1641.58	1624927	501070.3	39*52'09.3	80*43'26.7	1864.41	241.701	0.34	-0.11	0.49
6128	40.86	239.74	5491.86	555.36	-913.59	-1691.71	1624877	501041.3	39*52'09.0	80*43'27.4	1922.63	241.629	0.58	-0.09	0.88
6218	40.82	240.19	5559.95	570.71	-943.05	-1742.66	1624825	501012.5	39*52'08.7	80*43'28.0	1981.46	241.58	0.33	-0.04	0.5
6307	40.81	241.19	5627.3	586.6	-971.52	-1793.38	1624774	500984.7	39*52'08.4	80*43'28.7	2039.63	241.554	0.73	-0.01	1.12
6397	41.47	247.46	5695.11	606.35	-997.13	-1846.7	1624721	500959.8	39*52'08.2	80*43'29.3	2098.71	241.633	4.64	0.73	6.97
6486	41.24	261.55	5762.07	635.28	-1012.77	-1903.06	1624664	500945	39*52'08.0	80*43'30.1	2155.77	241.979	10.45	-0.26	15.83
6576	43.07	264.72	5828.79	672.73	-1019.96	-1963.01	1624604	500938.6	39*52'07.9	80*43'30.8	2212.18	242.544	3.12	2.03	3.52
6665	47.99	265.82	5891.12	713.92	-1025.17	-2026.29	1624541	500930.1	39*52'07.8	80*43'31.6	2270.86	243.164	5.6	5.53	1.24
6754	47.9	265.55	5950.74	757.14	-1030.14	-2092.18	1624475	500925.2	39*52'07.8	80*43'32.3	2332.04	243.785	0.25	-0.1	-0.3
6844	47.82	264.42	6011.12	800.17	-1035.97	-2158.66	1624408	500919.2	39*52'07.7	80*43'32.4	2456.76	244.881	0.78	0.37	-0.92
6933	48.15	263.6	6070.69	841.93	-1042.88	-2224.43	1624342	500914.9	39*52'07.7	80*43'35.1	2521.39	245.436	5.43	4.28	4.36
7023	52	267.52	6128.45	886.98	-1048.15	-2293.21	1624273	500919.9	39*52'07.7	80*43'35.1	2586.19	246.168	10.84	6.26	10.85
7112	57.57	277.18	6179.84	940.62	-1044.96	-2365.68	1624201	500919	39*52'07.7	80*43'36.0	2650.32	247.101	7.98	5.46	6.73
7201	62.43	283.17	6224.35	1004	-1031.26	-2441.45	1624125	500933.8	39*52'07.8	80*43'37.0	2715.06	248.145	5.29	4.37	3.31
7291	66.36	286.15	6263.25	1074.16	-1010.7	-2519.93	1624047	500955.4	39*52'08.0	80*43'38.0	2779.42	249.245	7.7	6.65	4.15
7380	72.28	289.84	6294.67	1148.42	-984.94	-2599.05	1623969	500982.2	39*52'08.3	80*43'39.0	2841.73	250.475	10.29	5.52	9
7470	77.25	297.94	6318.35	1229.44	-949.75	-2678.32	1623890	501018.5	39*52'08.6	80*43'40.0	2898.52	251.813	6.38	0.63	6.5
7560	77.82	303.79	6337.8	1314.68	-904.69	-2753.72	1623815	501064.6	39*52'09.1	80*43'41.0	2947.59	253.242	13.41	8.29	10.66
7649	85.2	313.28	6350.96	1402.02	-849.9	-2822.4	1623747	501120.3	39*52'09.6	80*43'41.9	2987.98	254.768	8.82	3.25	8.21
7738	88.09	320.59	6356.17	1490.73	-785.03	-2883.01	1623687	501185.9	39*52'10.3	80*43'42.6	3025.6	256.326	2.16	2.09	0.56
7828	89.97	321.09	6357.69	1580.22	-715.26	-2939.84	1623631	501256.5	39*52'11.0	80*43'43.4	3065.67	257.821	1.74	0.03	-1.74
7917	90	319.54	6357.72	1668.82	-646.77	-2996.67	1623576	501325.7	39*52'11.6	80*43'44.1	3110.2	259.25	2.4	0.62	-2.31
8006	90.55	317.48	6357.29	1757.63	-580.11	-3055.62	1623518	501393.2	39*52'12.3	80*43'44.8	3160.8	260.61	3.92	0	-3.92
8096	90.55	313.95	6356.43	1847.6	-515.69	-3118.45	1623456	501458.4	39*52'12.9	80*43'45.7	3217.46	261.866	3.86	-0.07	-3.86
8186	90.49	310.48	6355.61	1937.49	-455.23	-3185.1	1623390	501519.8	39*52'13.5	80*43'46.5	3277.36	263.027	0.75	0.03	-0.75
8275	90.52	309.81	6354.82	2026.18	-397.85	-3253.12	1623323	501578.1	39*52'14.1	80*43'47.4	3338.28	264.151	1.34	-0.17	1.33
8364	90.37	310.99	6354.13	2114.91	-340.17	-3320.9	1623256	501636.7	39*52'14.7	80*43'48.2	3399.83	265.268	1.31	0.38	1.26
8454	90.71	312.12	6353.29	2204.76	-280.48	-3388.24	1623189	501697.3	39*52'15.3	80*43'49.1	3458.83	266.381	4.87	0.24	4.87
8543	90.92	316.45	6352.02	2293.72	-218.36	-3451.93	1623126	501760.3	39*52'15.9	80*43'49.9	3517.59	267.478	2.06	0.8	-1.9
8632	91.63	314.76	6350.04	2382.69	-154.78	-3514.18	1623065	501824.7	39*52'16.5	80*43'50.7	3581.27	268.504	4.11	-0.51	-4.08
8722	91.17	311.09	6347.84	2472.6	-93.52	-3580.05	1623000	501886.8	39*52'17.1	80*43'51.6	3646.93	269.456	0.99	-0.62	0.78
8811	90.62	311.78	6346.45	2561.43	-34.63	-3646.77	1622934	501946.6	39*52'17.7	80*43'52.4	3712	270.424	4.11	-0.08	4.11
8901	90.55	315.48	6345.53	2651.39	27.46	-3711.9	1622870	502009.6	39*52'18.3	80*43'53.3	3775.79	271.374	0.91	0.38	-0.83
8990	90.89	314.74	6344.41	2740.38	90.51	-3774.7	1622808	502073.4	39*52'18.9	80*43'54.1	3842.72	272.278	2.19	-0.38	-2.16
9080	90.55	312.8	6343.28	2830.35	152.76	-3839.68	1622744	502136.6	39*52'19.5	80*43'54.9	3906.65	273.192	8.93	0.03	8.93
9169	90.58	320.75	6342.4	2919.23	217.55	-3900.59	1622683	502202.2	39*52'20.2	80*43'55.7	3963.14	274.211	8.97	-0.1	8.97
9259	90.49	328.82	6341.56	3007.8	291.02	-3952.44	1622633	502276.3	39*52'20.9	80*43'56.3	4015.76	275.242	0.92	0.52	-0.76
9348	90.95	328.14	6340.44	3094.28	366.88	-3998.96	1622587	502352.8	39*52'21.6	80*43'56.9	4072.37	276.214	4.33	-0.1	-4.33
9437	90.86	324.29	6339.03	3181.5	440.83	-4048.44	1622539	502427.4	39*52'22.4	80*43'57.6	4134.01	277.13	1.96	0.44	-1.91
9527	91.26	322.57	6337.37	3270.47	513.1	-4102.05	1622486	502500.4	39*52'23.1	80*43'58.3	4201.32	277.928	9.55	-0.72	-9.53
9616	90.62	314.09	6335.91	3359.22	579.51	-4161.16	1622428	502567.6	39*52'23.7	80*43'59.0	4275.22	278.598	4.46	-0.31	-4.45
9705	90.34	310.13	6335.16	3448.09	639.17	-4227.17	1622363	502628.2	39*52'24.3	80*43'59.9	4351.19	279.239	2.68	0.17	2.68
9795	90.49	312.54	6334.51	3537.92	698.61	-4294.74	1622296	502688.5	39*52'24.9	80*44'00.7	4424.61	279.896	3.22	-0.17	3.21
9884	90.34	315.4	6333.86	3626.9	760.39	-4358.78	1622233	502751.2	39*52'25.5	80*44'01.6	4500.19	280.523	5.17	0.2	-5.17
9974	90.52	310.75	6333.19	3716.83	821.84	-4424.51	1622168	502813.5	39*52'26.1	80*44'02.4	4579.63	281.027	7.31	-0.34	-7.3
10063	90.22	304.25	6332.61	3805.05	875.99	-4495.07	1622098	502868.6	39*52'26.7	80*44'03.3	4662.67	281.458	0.76	0.27	-0.71
10153	90.46	303.61	6332.08	3893.42	926.22	-4569.75	1622024	502919.8	39*52'27.2	80*44'04.3					

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10242	90.49	306.44	6331.34	3981.1	977.3	-4642.62	1621952	502971.9	39°52'27.7	80°44'05.2	4744.37	281.888	3.18	0.03	3.18
10331	90.25	308.1	6330.77	4069.32	1031.19	-4713.44	1621882	503026.7	39°52'28.2	80°44'06.1	4824.92	282.341	1.88	-0.27	1.87
10421	90.37	307.42	6330.28	4158.63	1086.3	-4784.59	1621811	503082.8	39°52'28.8	80°44'07.0	4906.36	282.792	0.77	0.13	-0.76
10510	90.25	309.31	6329.8	4247.06	1141.54	-4854.37	1621742	503139.3	39°52'29.3	80°44'07.9	4986.78	283.233	2.13	-0.13	2.12
10600	90.34	312	6329.33	4336.81	1200.17	-4922.64	1621675	503198.5	39°52'29.9	80°44'08.8	5066.83	283.702	2.99	0.1	2.99
10689	90.37	315.2	6328.78	4425.78	1261.53	-4987.08	1621611	503260.7	39°52'30.5	80°44'09.6	5144.17	284.196	3.6	0.03	3.6
10779	90.31	320.87	6328.25	4515.6	1328.42	-5047.24	1621552	503328.4	39°52'31.1	80°44'10.4	5219.13	284.746	6.3	-0.07	6.3
10868	90.37	316.89	6327.72	4604.36	1395.46	-5105.76	1621494	503396.3	39°52'31.8	80°44'11.1	5293.02	285.286	4.47	0.07	-4.47
10957	90.34	315.4	6327.17	4693.33	1459.63	-5167.42	1621434	503461.3	39°52'32.4	80°44'11.9	5369.61	285.773	1.67	-0.03	-1.67
11047	90.49	316.18	6326.52	4783.32	1524.14	-5230.17	1621372	503526.6	39°52'33.1	80°44'12.7	5447.72	286.247	0.88	0.17	0.87
11136	90.49	316.46	6325.75	4872.28	1588.5	-5291.63	1621311	503591.8	39°52'33.7	80°44'13.5	5524.92	286.709	0.31	0	0.31
11226	90.55	316.94	6324.94	4962.23	1654	-5353.35	1621250	503658.1	39°52'34.4	80°44'14.3	5603.04	287.169	0.54	0.07	0.53
11315	91.2	317.33	6323.58	5051.15	1719.22	-5413.89	1621189	503724.2	39°52'35.0	80°44'15.1	5680.31	287.618	0.85	0.73	0.44
11404	90.77	318.14	6322.05	5140.02	1785.08	-5473.74	1621132	503790.8	39°52'35.7	80°44'15.9	5757.46	288.062	1.03	-0.48	0.91
11493	90.62	319.44	6320.97	5228.8	1852.03	-5532.37	1621074	503858.5	39°52'36.3	80°44'16.6	5834.13	288.509	1.47	-0.17	1.46
11583	91.14	320.5	6319.59	5318.43	1920.93	-5590.25	1621017	503928.2	39°52'37.0	80°44'17.4	5911.08	288.964	1.31	0.58	1.18
11672	91.23	319.66	6317.75	5407.04	1989.17	-5647.35	1620961	503997.2	39°52'37.7	80°44'18.1	5987.43	289.404	0.95	0.1	-0.94
11761	90.55	317.38	6316.36	5495.84	2055.84	-5706.29	1620903	504064.7	39°52'38.3	80°44'18.8	6065.33	289.813	2.67	-0.76	-2.56
11851	90.55	313.12	6315.5	5585.81	2119.74	-5769.63	1620841	504129.4	39°52'39.0	80°44'19.7	6146.7	290.173	4.73	0	-4.73
11940	90.58	312.44	6314.62	5674.75	2180.18	-5834.95	1620776	504190.8	39°52'39.6	80°44'20.5	6228.95	290.488	0.76	0.03	-0.76
12030	90.52	311.24	6313.76	5764.62	2240.21	-5902	1620710	504251.7	39°52'40.2	80°44'21.4	6312.85	290.785	1.33	-0.07	-1.33
12119	90.58	314.13	6312.9	5853.54	2300.54	-5967.41	1620645	504312.9	39°52'40.8	80°44'22.2	6395.5	291.083	3.25	0.07	3.25
12208	90.71	314.59	6311.9	5942.53	2362.76	-6031.04	1620582	504376.3	39°52'41.4	80°44'23.0	6477.35	291.394	0.54	0.15	0.52
12298	90.62	316.18	6310.86	6032.52	2426.82	-6094.24	1620520	504440.9	39°52'42.0	80°44'23.8	6559.67	291.713	1.77	-0.1	1.77
12387	90.55	317.76	6309.95	6121.45	2491.88	-6154.97	1620460	504506.7	39°52'42.6	80°44'24.6	6640.26	292.041	1.78	-0.08	1.78
12477	90.58	311.78	6309.06	6211.41	2555.23	-6218.83	1620397	504571.3	39°52'43.3	80°44'25.4	6723.32	292.337	6.64	0.03	-6.64
12566	90.49	306.03	6308.23	6299.89	2611.1	-6288.06	1620329	504627.8	39°52'43.8	80°44'26.3	6808.63	292.551	6.46	-0.1	-6.46
12656	90.65	307.49	6307.33	6388.99	2664.95	-6360.16	1620257	504682.6	39°52'44.4	80°44'27.2	6895.91	292.734	1.63	0.18	1.62
12745	90.68	314.09	6306.3	6477.71	2723.06	-6427.5	1620191	504741.6	39°52'44.9	80°44'28.1	6980.53	292.96	7.42	0.03	7.42
12834	91.2	313.23	6304.84	6566.68	2784.49	-6491.87	1620127	504803.9	39°52'45.5	80°44'28.9	7063.84	293.215	1.13	0.58	-0.97
12924	90.98	309.46	6303.13	6656.48	2843.93	-6559.42	1620061	504864.2	39°52'46.1	80°44'29.8	7149.4	293.44	4.2	-0.24	-4.19
13013	90.62	308.88	6301.88	6745.03	2900.13	-6628.41	1619992	504921.4	39°52'46.7	80°44'30.7	7235.09	293.631	0.77	-0.4	-0.65
13103	90.12	316.84	6301.3	6834.91	2961.3	-6694.33	1619927	504983.4	39°52'47.3	80°44'31.5	7320.06	293.863	8.86	-0.56	8.84
13192	91.08	320.43	6300.37	6923.69	3028.08	-6753.13	1619869	505051.3	39°52'47.9	80°44'32.3	7400.95	294.151	4.18	1.08	4.03
13281	91.08	320.27	6298.69	7012.26	3096.6	-6809.91	1619814	505120.3	39°52'48.6	80°44'33.0	7480.89	294.452	0.18	0	-0.18
13371	91.14	321.15	6296.95	7101.77	3166.24	-6866.89	1619758	505190.7	39°52'49.3	80°44'33.7	7561.7	294.754	0.98	0.07	0.98
13460	91.17	321.22	6295.15	7190.21	3235.57	-6922.66	1619703	505260.7	39°52'50.0	80°44'34.5	7641.48	295.051	0.09	0.03	0.08
13549	90.43	320.1	6293.91	7278.74	3304.4	-6979.08	1619647	505330.3	39°52'50.7	80°44'35.2	7721.82	295.336	1.51	-0.83	-1.26
13639	90.34	318.71	6293.31	7368.45	3372.73	-7037.64	1619590	505399.4	39°52'51.3	80°44'35.9	7804.08	295.606	1.55	-0.1	-1.54
13728	90.46	315.52	6292.68	7457.37	3437.93	-7098.19	1619530	505465.5	39°52'52.0	80°44'36.7	7886.94	295.843	3.59	0.13	-3.58
13818	90.31	312.54	6292.08	7547.35	3500.48	-7162.89	1619466	505528.9	39°52'52.6	80°44'37.5	7972.48	296.045	3.32	-0.17	-3.31
13907	90.49	315.79	6291.46	7636.33	3562.48	-7226.73	1619403	505591.7	39°52'53.2	80°44'38.4	8057.1	296.241	3.66	0.2	3.65
13997	90.58	317.92	6290.62	7726.26	3628.14	-7288.27	1619343	505658.2	39°52'53.9	80°44'39.1	8141.39	296.464	2.37	0.1	2.37
14087	90.55	318.6	6289.73	7816.1	3695.29	-7348.18	1619284	505726.2	39°52'54.5	80°44'39.9	8225.02	296.697	0.76	-0.03	0.76
14176	90.65	317.83	6288.8	7904.94	3761.65	-7408.48	1619225	505793.3	39°52'55.2	80°44'40.7	8307.87	296.922	0.87	0.11	-0.87
14265	90.58	315	6287.84	7993.89	3826.11	-7468.83	1619165	505858.6	39°52'55.8	80°44'41.5	8391.81	297.125	3.18	-0.08	-3.18
14355	90.58	313.26	6286.93	8083.87	3888.77	-7533.42	1619101	505922.1	39°52'56.4	80°44'42.3	8477.91	297.303	1.93	0	-1.93
14445	90.74	312.95	6285.9	8173.83	3950.26	-7599.13	1619036	505984.5	39°52'57.1	80°44'43.1	8564.54	297.467	0.39	0.18	-0.34
14534	90.55	311.57	6284.89	8262.73	4010.11	-7664.99	1618971	506045.2	39°52'57.6	80°44'44.0	8650.61	297.617	1.57	-0.21	-1.55
14624	90.65	309.25	6283.95	8352.45	4068.44	-7733.51	1618903	506104.5	39°52'58.2	80°44'44.9	8738.39	297.748	2.58	0.11	-2.58
14713	90.71	308.27	6282.89	8440.94	4124.16	-7802.91	1618835	506161.1	39°52'58.8	80°44'45.8	8825.76	297.858	1.1	0.07	-1.1

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14802	90.4	311.44	6282.03	8529.59	4181.18	-7871.22	1618767	506219.1	39°52'59.3	80°44'46.6	8912.82	297.977	3.58	-0.35	3.56
14892	90.62	312.08	6281.23	8619.45	4241.12	-7938.35	1618701	506279.9	39°52'59.9	80°44'47.5	9000.25	298.114	0.75	0.24	0.71
14981	90.46	310.9	6280.39	8708.3	4300.08	-8005.01	1618635	506339.8	39°53'00.5	80°44'48.3	9086.85	298.244	1.34	-0.18	-1.33
15071	90.62	308.21	6279.54	8797.9	4357.39	-8074.39	1618566	506398.3	39°53'01.1	80°44'49.2	9175.11	298.354	2.99	0.18	-2.99
15161	90.71	306.71	6278.5	8887.15	4412.12	-8145.83	1618496	506453.7	39°53'01.6	80°44'50.2	9263.98	298.442	1.67	0.1	-1.67
15250	90.25	307	6277.75	8975.28	4465.5	-8217.04	1618425	506508.3	39°53'02.1	80°44'51.1	9352.03	298.522	0.61	-0.52	0.33
15340	90.4	310.44	6277.24	9064.75	4521.79	-8287.24	1618356	506565.3	39°53'02.7	80°44'52.0	9440.6	298.618	3.83	0.17	3.82
15430	90.55	315.28	6276.5	9154.67	4582.98	-8353.19	1618291	506627.4	39°53'03.3	80°44'52.8	9527.83	298.751	5.38	0.17	5.38
15519	90.62	315.8	6275.59	9243.66	4646.5	-8415.53	1618229	506691.7	39°53'03.9	80°44'53.6	9613.07	298.905	0.59	0.08	0.58
15609	90.49	318.76	6274.72	9333.56	4712.61	-8476.58	1618169	506758.6	39°53'04.6	80°44'54.4	9698.51	299.072	3.29	-0.14	3.29
15699	91.57	317.52	6273.1	9423.39	4779.63	-8536.62	1618110	506826.5	39°53'05.2	80°44'55.2	9783.6	299.244	1.83	1.2	-1.38
15789	91.78	318.4	6270.47	9513.22	4846.44	-8596.86	1618051	506894.1	39°53'05.9	80°44'55.9	9868.84	299.412	1	0.23	0.98
15878	91.6	317.99	6267.84	9602.03	4912.76	-8656.16	1617992	506961.2	39°53'06.6	80°44'56.7	9953.11	299.577	0.5	-0.2	-0.46
15968	90.92	319.33	6265.86	9691.81	4980.31	-8715.6	1617934	507029.5	39°53'07.2	80°44'57.5	10038.18	299.745	1.67	-0.76	1.49
16058	90.83	320.66	6264.49	9781.43	5049.24	-8773.44	1617877	507099.2	39°53'07.9	80°44'58.2	10122.66	299.921	1.48	-0.1	1.48
16147	91.01	322.36	6263.06	9869.81	5118.89	-8828.83	1617822	507169.6	39°53'08.6	80°44'58.9	10205.45	300.105	1.92	0.2	1.91
16237	90.95	318.62	6261.52	9959.35	5188.3	-8886.07	1617766	507239.8	39°53'09.3	80°44'59.6	10289.83	300.279	4.16	-0.07	-4.16
16326	91.02	321.93	6259.99	10047.92	5256.74	-8942.93	1617710	507309.3	39°53'10.7	80°45'00.4	10373.49	300.447	3.72	0.08	3.72
16416	91.08	322.85	6258.34	10137.12	5328.02	-8997.85	1617656	507381.3	39°53'11.3	80°45'01.1	10457.01	300.632	1.02	0.07	1.02
16505	90.52	318.26	6257.1	10225.65	5396.72	-9054.37	1617601	507450.5	39°53'11.9	80°45'01.8	10540.7	300.796	5.2	-0.63	-5.16
16595	90.95	313.66	6255.94	10315.6	5461.4	-9116.91	1617539	507516.3	39°53'12.6	80°45'02.6	10627.56	300.923	5.13	0.48	-5.11
16684	90.65	311.07	6254.7	10404.5	5521.36	-9182.66	1617474	507576.8	39°53'13.2	80°45'03.5	10714.79	301.018	2.93	-0.34	-2.91
16773	90.83	314.75	6253.55	10493.43	5581.94	-9247.83	1617410	507638.3	39°53'13.8	80°45'04.3	10801.87	301.115	4.14	0.2	4.13
16863	90.83	314.97	6252.25	10583.42	5645.42	-9311.62	1617347	507702.6	39°53'14.4	80°45'06.0	10976.81	301.311	7.7	0.13	-7.7
16952	90.95	308.12	6250.86	10672.21	5704.4	-9378.18	1617281	507762.5	39°53'14.9	80°45'06.9	11066.13	301.368	0.5	0.14	0.48
17042	91.08	308.55	6249.27	10761.61	5760.21	-9448.77	1617211	507819.3	39°53'15.5	80°45'07.7	11154.08	301.437	3.53	-0.21	3.53
17131	90.89	311.69	6247.74	10850.29	5817.55	-9516.81	1617144	507877.5	39°53'16.1	80°45'08.6	11242.4	301.525	1.82	0	1.82
17221	90.89	313.33	6246.34	10940.2	5878.35	-9583.14	1617079	507939.2	39°53'16.7	80°45'09.4	11329	301.629	3.44	0.03	3.44
17310	90.92	316.39	6244.93	11029.18	5941.12	-9646.21	1617016	508002.8	39°53'17.4	80°45'10.2	11415.89	301.747	0.81	-0.03	0.81
17400	90.89	317.12	6243.51	11119.12	6006.67	-9707.86	1616956	508069.2	39°53'18.0	80°45'11.0	11501.26	301.873	2.46	-0.03	2.46
17489	90.86	319.31	6242.15	11207.95	6073.02	-9767.16	1616897	508136.4	39°53'18.7	80°45'11.7	11587.15	301.988	5.11	0.18	-5.11
17578	91.02	314.76	6240.69	11296.84	6138.12	-9827.79	1616837	508202.3	39°53'19.3	80°45'12.6	11674.95	302.085	0.33	-0.31	-0.12
17668	90.74	314.65	6239.31	11386.83	6201.42	-9891.75	1616774	508266.4	39°53'19.9	80°45'13.4	11761.8	302.18	0.23	0.17	0.16
17757	90.89	314.79	6238.04	11475.82	6264.04	-9954.98	1616712	508329.9	39°53'20.5	80°45'14.2	11849.63	302.275	0.04	0	0.04
17847	90.89	314.83	6236.64	11565.81	6327.46	-10018.8	1616649	508394.2	39°53'21.2	80°45'15.0	11936.67	302.364	1.15	0.07	-1.15
17936	90.95	313.81	6235.22	11654.8	6389.63	-10082.5	1616586	508457.2	39°53'21.8	80°45'15.8	12024.01	302.445	0.82	0.08	-0.82
18025	91.02	313.08	6233.69	11743.76	6450.83	-10147.1	1616522	508519.3	39°53'22.4	80°45'16.7	12112.38	302.525	1.27	1.19	0.43
18115	92.09	313.47	6231.24	11833.69	6512.5	-10212.6	1616458	508581.8	39°53'23.0	80°45'17.5	12199.71	302.605	0.18	-0.17	0.06
18204	91.94	313.52	6228.11	11922.61	6573.72	-10277.1	1616394	508643.9	39°53'23.6	80°45'18.3	12288.14	302.682	0.81	0.17	-0.79
18294	92.06	312.81	6224.95	12012.52	6635.25	-10342.7	1616329	508706.3	39°53'24.2	80°45'19.2	12375.62	302.756	0.75	-0.03	0.75
18383	92.06	313.48	6221.73	12101.42	6696.07	-10407.6	1616265	508768.3	39°53'24.8	80°45'20.0	12462.91	302.836	1.29	-0.83	0.99
18472	91.32	314.36	6219.1	12190.37	6757.78	-10471.7	1616202	508830.6	39°53'25.4	80°45'20.8	12550.97	302.92	0.78	-0.17	0.77
18562	91.17	315.05	6217.15	12280.34	6821.47	-10535.7	1616139	508894.7	39°53'26.0	80°45'21.6	12637.87	303.008	1.33	-1.03	0.84
18651	90.25	315.8	6216.04	12369.33	6884.47	-10598.1	1616077	508959.3	39°53'26.6	80°45'22.4	12725.31	303.082	4.94	-1.42	-4.73
18740	88.99	311.59	6216.63	12458.29	6945.93	-10662.4	1616014	509021.3	39°53'27.2	80°45'23.3	12814.11	303.147	1.82	-0.08	1.82
18830	88.92	313.23	6218.28	12548.19	7006.62	-10728.9	1615948	509082.9	39°53'27.9	80°45'24.1	12901.41	303.224	2.53	0.03	2.53
18919	88.95	315.48	6219.93	12637.17	7068.82	-10792.5	1615885	509145.9	39°53'28.5	80°45'24.9	12988.22	303.31	1.06	-0.13	1.06
19008	88.83	316.42	6221.65	12726.13	7132.78	-10854.4	1615824	509210.7	39°53'29.1	80°45'25.7	13074.66	303.403	1.45	0.1	1.45
19097	88.92	317.71	6223.4	12815.05	7197.92	-10915	1615765	509276.7	39°53'29.7	80°45'26.5	13161.73	303.502	0.81	-0.1	0.8
19187	88.83	318.43	6225.17	12904.88	7264.87	-10975.1	1615706	509344.4	39°53'30.3	80°45'27.2	13248.9	303.599	1.36	0.79	-1.11
19277	89.54	317.43	6226.45	12994.74	7331.67	-11035.4	1615646	509412.3	39°53'30.9	80°45'27.9	13336.2	303.696	1.86	0.68	-1.86

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String/Diag Start MD	End MD	Interval	Start TVD	End TVD	Start N/S	Start E/W	End N/S	End E/W
19366	89.54	318.45	6227.16	13083.61	7397.74	-11095	1615587	509478.9
19455	89.6	317.19	6227.83	13172.48	7463.69	-11154.8	1615529	509545.6
19544	90.55	316.84	6227.72	13261.42	7528.8	-11215.5	1615469	509611.6
19612	91.69	316.95	6226.39	13329.36	7578.43	-11261.9	1615423	509661.8
19637	91.69	316.95	6225.65	13354.33	7596.7	-11279	1615406	509680.3

HOLE AND CASING SECTIONS Ref Wellbore: Hicks M05H AWB Ref Wellpath: Hicks M05H AWP Proj: 19637'

26in Open	20in Condu	17.5in Ope	13.375in C.	12.25in Op	9.625in Cai	8.5in Open	5.5in Casin
25	25	85	25	25	25	2086	25
85	85	60	25	85	85	19637	19635
60	60	487	85	571.97	2022.42	17551	19610
25	25	85	571.97	2081.09	2022.42	2081.09	25
572	535	510	25	534.98	0	6225.65	6225.71
2086	2086	1514	571.97	2081.09	-3.55	-42.59	-42.59
25	2027	2002	25	2022.42	0	-40.22	-70.28
19637	19637	17551	2081.09	6225.65	-75.99	7596.7	-11279
19635	19610	19610	25	6225.71	0	7595.23	-11277.6

TARGETS

Name	TVD	North	East	Grid East	Grid North	Latitude	Longitude	Shape	Comment
Hicks M05I	6215.17	7589.97	-11286.8	1615398	509673.7	39°53'33.0	80°45'30.5	point	
Hicks M05I	6344	7589.97	-11286.8	1615398	509673.7	39°53'33.0	80°45'30.5	point	
Hicks M05I	6344	-788.4	-2862.71	1623708	501182.3	39°52'10.2	80°43'42.4	point	
Hicks M05I	6357.9	-788.4	-2862.71	1623708	501182.3	39°52'10.2	80°43'42.4	point	
Hicks Pad -	6385	9383.15	-11697	1615012	511472.2	39°53'50.7	80°45'35.7	polygon	

WELLPATH COMPOSITION Ref Wellbore: Hicks M05H AWB Ref Wellpath: Hicks M05H AWP Proj: 19637'

Log Name/Start MD	End MD	Pos Unc	Model
01_SDI Gyr	25	458	SDI Keeper v1.04
03_APS EV	458	1995	OWSG MWD rev2 + IFR1 + Multi-Station Correction
04_BH Nav	1995	5242	OWSG MWD rev2 + IFR1 + Multi-Station Correction
05_BH ATC	5242	19612	OWSG MWD rev2 + IFR1 + Multi-Station Correction
Projection	19612	19637	Blind Drilling (std)

COMMENTS

Wellpath general comments
 API: 47-051-01913-0000
 BH Job #: 109836659
 Duration: 07/03/2019-07/17/2019
 Rig: Precision 560

SDI Gyro <17-1/2> (100'-450)''
 APS EM + MagVAR MSA <12-1/4> (458')(529'-1995)''
 BH NavTrak + MagVAR MSA <8-1/2> (1995')(2108'-5242)''
 BH ATCurve + MagVAR MSA <8-1/2> (5242')(5323'-19612)''
 Projected MD at TD: 19637'

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