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# Actual Wellpath Report

SHR-60 514465 ST01 AWP Proj: 17532' (-0.83627)  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	EQT	Slot	Slot 514465
Area	Tyler County, WV	Well	SHR-60 514465 ST01
Field	Tyler (True)	Wellbore	SHR-60 514465 ST01 AWB
Facility	SHR-60 Pad		

REPORT SETUP INFORMATION			
Projection System	NAD27 / Lambert West Virginia SP, Northern Zone (4701), US feet	Software System	WellArchitect@ 5.1
North Reference	True	User	Jacostec
Scale	0.999949	Report Generated	4/5/2019 at 11:31:26 AM
Convergence at slot	0.84° West	Database/Source file	WA_MPL_EASTERNUS_Defn/SHR-60_514465_ST01_AWP_Proj_17532_-0.83627_.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-74.99	1.64	1629439.17	328507.21	39°23'40.278"N	80°48'40.444"W
Facility Reference Pt			1629438.62	328582.21	39°23'41.019"N	80°48'40.465"W
Field Reference Pt			609601.22	0.00	38°23'48.753"N	84°21'09.765"W

WELLPATH DATUM			
Calculation method	Minimum curvature	Patterson 578 (RKB) to Facility Vertical Datum	1036.00ft
Horizontal Reference Pt	Slot	Patterson 578 (RKB) to Mean Sea Level	1036.00ft
Vertical Reference Pt	Patterson 578 (RKB)	Patterson 578 (RKB) to Ground Level at Slot (Slot 514465)	25.00ft
MD Reference Pt	Patterson 578 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	148.82°

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Facility	SHR-60 Pad		

WELLPATH DATA (203 stations) † = interpolated/extrapolated station															
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
0.00†	0.000	25.314	0.00	0.00	0.00	0.00	1629439.17	328507.21	39°23'40.278"N	80°48'40.444"W	0.00	0.000	0.00	0.00	0.00
25.00	0.000	25.314	25.00	0.00	0.00	0.00	1629439.17	328507.21	39°23'40.278"N	80°48'40.444"W	0.00	0.000	0.00	0.00	0.00
100.00	0.290	25.314	100.00	-0.10	0.17	0.08	1629439.25	328507.38	39°23'40.279"N	80°48'40.443"W	0.19	25.314	0.39	0.39	33.75
200.00	0.240	48.684	200.00	-0.28	0.54	0.35	1629439.52	328507.74	39°23'40.283"N	80°48'40.439"W	0.64	32.766	0.12	-0.05	23.37
300.00	0.230	50.864	300.00	-0.35	0.80	0.66	1629439.84	328508.00	39°23'40.286"N	80°48'40.435"W	1.04	39.382	0.01	-0.01	2.18
400.00	0.190	47.204	400.00	-0.41	1.04	0.94	1629440.12	328508.24	39°23'40.288"N	80°48'40.432"W	1.40	41.938	0.04	-0.04	-3.66
500.00	0.270	44.614	500.00	-0.50	1.32	1.22	1629440.41	328508.52	39°23'40.291"N	80°48'40.428"W	1.80	42.771	0.08	0.08	-2.59
600.00	0.320	52.604	599.99	-0.59	1.66	1.61	1629440.81	328508.85	39°23'40.294"N	80°48'40.423"W	2.31	44.140	0.06	0.05	7.99
700.00	0.420	58.214	699.99	-0.62	2.02	2.14	1629441.34	328509.20	39°23'40.298"N	80°48'40.416"W	2.95	46.671	0.11	0.10	5.61
800.00	0.500	73.464	799.99	-0.51	2.34	2.87	1629442.08	328509.51	39°23'40.301"N	80°48'40.407"W	3.71	50.848	0.15	0.08	15.25
900.00	0.530	68.914	899.99	-0.32	2.63	3.72	1629442.93	328509.79	39°23'40.304"N	80°48'40.396"W	4.56	54.762	0.05	0.03	-4.55
1000.00	0.580	67.964	999.98	-0.16	2.99	4.63	1629443.84	328510.13	39°23'40.307"N	80°48'40.385"W	5.51	57.142	0.05	0.05	-0.95
1100.00	1.150	86.164	1099.97	0.38	3.24	6.10	1629445.31	328510.36	39°23'40.310"N	80°48'40.366"W	6.91	61.976	0.63	0.57	18.20
1200.00	1.870	94.664	1199.93	1.80	3.18	8.72	1629447.94	328510.26	39°23'40.309"N	80°48'40.333"W	9.28	69.977	0.75	0.72	8.50
1300.00	2.880	100.884	1299.85	4.43	2.57	12.82	1629452.02	328509.59	39°23'40.303"N	80°48'40.280"W	13.07	78.653	1.04	1.01	6.22
1400.00	4.270	101.584	1399.65	8.64	1.35	18.93	1629458.12	328508.28	39°23'40.291"N	80°48'40.203"W	18.98	85.921	1.39	1.39	0.70
1500.00	4.910	94.734	1499.33	13.68	0.25	26.84	1629466.01	328507.07	39°23'40.280"N	80°48'40.102"W	26.84	89.468	0.84	0.64	-6.85
1600.00	5.100	93.334	1598.95	18.71	-0.36	35.55	1629474.70	328506.33	39°23'40.274"N	80°48'39.991"W	35.55	90.584	0.23	0.19	-1.40
1700.00	3.920	107.004	1698.64	23.78	-1.62	43.25	1629482.39	328504.96	39°23'40.262"N	80°48'39.893"W	43.28	92.146	1.59	-1.18	13.67
1800.00	3.940	116.094	1798.41	29.21	-4.13	49.61	1629488.71	328502.36	39°23'40.237"N	80°48'39.812"W	49.78	94.761	0.62	0.02	9.09
1900.00	4.730	105.684	1898.12	35.11	-6.76	56.66	1629495.72	328499.63	39°23'40.211"N	80°48'39.722"W	57.06	96.801	1.11	0.79	-10.41
2000.00	4.510	93.924	1997.80	40.38	-8.14	64.55	1629503.59	328498.13	39°23'40.197"N	80°48'39.621"W	65.06	97.188	0.97	-0.22	-11.76
2100.00	3.450	87.524	2097.56	44.09	-8.28	71.48	1629510.52	328497.89	39°23'40.196"N	80°48'39.533"W	71.96	96.607	1.15	-1.06	-6.40
2200.00	3.100	89.004	2197.39	46.89	-8.10	77.19	1629516.23	328497.98	39°23'40.198"N	80°48'39.460"W	77.62	95.992	0.36	-0.35	1.48
2300.00	3.690	97.994	2297.22	50.28	-8.50	83.08	1629522.11	328497.50	39°23'40.194"N	80°48'39.385"W	83.52	95.844	0.79	0.59	8.99
2400.00	4.910	100.964	2396.93	55.19	-9.76	90.47	1629529.48	328496.13	39°23'40.181"N	80°48'39.291"W	91.00	96.160	1.24	1.22	2.97
2500.00	2.940	118.974	2496.70	60.28	-11.82	96.92	1629535.90	328493.98	39°23'40.161"N	80°48'39.209"W	97.63	96.954	2.30	-1.97	18.01
2600.00	2.820	140.944	2596.57	64.94	-14.97	100.71	1629539.64	328490.77	39°23'40.130"N	80°48'39.161"W	101.82	98.457	1.10	-0.12	21.97
2700.00	1.710	125.814	2696.50	68.76	-17.76	103.47	1629542.36	328487.95	39°23'40.102"N	80°48'39.126"W	104.98	99.738	1.25	-1.11	-15.13
2800.00	1.430	24.974	2796.47	69.43	-17.50	105.21	1629544.10	328488.18	39°23'40.105"N	80°48'39.104"W	106.65	99.444	2.43	-0.28	-100.84

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Area	Tyler County, WV	Well	SHR-60 514465 ST01
Field	Tyler (True)	Wellbore	SHR-60 514465 ST01 AWB
Facility	SHR-60 Pad		

WELLPATH DATA (203 stations)															
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
2900.00	1.350	5.284	2896.44	67.79	-15.19	105.84	1629544.77	328490.47	39°23'40.128"N	80°48'39.096"W	106.93	98.170	0.48	-0.08	-19.69
3000.00	0.660	353.014	2996.43	66.32	-13.45	105.88	1629544.84	328492.22	39°23'40.145"N	80°48'39.095"W	106.73	97.240	0.72	-0.69	-12.27
3100.00	0.440	343.074	3096.42	65.42	-12.51	105.70	1629544.67	328493.16	39°23'40.154"N	80°48'39.097"W	106.44	96.751	0.24	-0.22	-9.94
3200.00	0.270	339.804	3196.42	64.82	-11.92	105.51	1629544.48	328493.75	39°23'40.160"N	80°48'39.100"W	106.18	96.447	0.17	-0.17	-3.27
3300.00	0.310	328.814	3296.42	64.32	-11.47	105.28	1629544.27	328494.21	39°23'40.164"N	80°48'39.103"W	105.91	96.218	0.07	0.04	-10.99
3400.00	0.410	330.274	3396.42	63.69	-10.93	104.97	1629543.96	328494.75	39°23'40.170"N	80°48'39.107"W	105.53	95.944	0.10	0.10	1.46
3500.00	0.280	286.334	3496.42	63.15	-10.55	104.55	1629543.55	328495.14	39°23'40.173"N	80°48'39.112"W	105.09	95.761	0.28	-0.13	-43.94
3600.00	0.330	244.274	3596.41	62.94	-10.60	104.06	1629543.06	328495.09	39°23'40.173"N	80°48'39.118"W	104.60	95.819	0.22	0.05	-42.06
3700.00	0.400	210.144	3696.41	63.08	-11.03	103.63	1629542.62	328494.67	39°23'40.169"N	80°48'39.124"W	104.21	96.077	0.22	0.07	-34.13
3800.00	0.470	207.584	3796.41	63.46	-11.70	103.26	1629542.24	328494.01	39°23'40.162"N	80°48'39.128"W	103.92	96.463	0.07	0.07	-2.56
3900.00	0.620	217.034	3896.41	63.88	-12.49	102.74	1629541.72	328493.22	39°23'40.154"N	80°48'39.135"W	103.50	96.932	0.17	0.15	9.45
4000.00	1.000	223.634	3996.40	64.31	-13.56	101.82	1629540.77	328492.17	39°23'40.144"N	80°48'39.147"W	102.72	97.584	0.39	0.38	6.60
4100.00	1.390	219.794	4096.37	64.93	-15.12	100.44	1629539.37	328490.63	39°23'40.128"N	80°48'39.164"W	101.57	98.561	0.40	0.39	-3.84
4200.00	1.000	219.274	4196.35	65.62	-16.73	99.11	1629538.02	328489.04	39°23'40.112"N	80°48'39.181"W	100.51	99.580	0.39	-0.39	-0.52
4256.00	0.940	219.294	4252.34	65.93	-17.46	98.51	1629537.41	328488.31	39°23'40.105"N	80°48'39.189"W	100.04	100.051	0.11	-0.11	0.04
4299.00	1.040	208.734	4295.34	66.25	-18.08	98.10	1629536.99	328487.71	39°23'40.099"N	80°48'39.194"W	99.75	100.440	0.48	0.23	-24.56
4331.00	3.540	171.574	4327.31	67.30	-19.31	98.10	1629536.98	328486.47	39°23'40.087"N	80°48'39.194"W	99.99	101.134	8.70	7.81	-116.12
4362.00	6.750	164.934	4358.18	69.94	-22.01	98.72	1629537.55	328483.76	39°23'40.060"N	80°48'39.186"W	101.14	102.572	10.51	10.35	-21.42
4457.00	15.660	163.614	4451.28	87.73	-39.74	103.80	1629542.37	328465.96	39°23'39.885"N	80°48'39.122"W	111.14	110.951	9.38	9.38	-1.39
4552.00	18.900	160.114	4541.98	115.23	-66.52	112.65	1629550.83	328439.06	39°23'39.620"N	80°48'39.009"W	130.82	120.562	3.58	3.41	-3.68
4583.00	18.820	155.754	4571.32	125.12	-75.80	116.41	1629554.46	328429.72	39°23'39.529"N	80°48'38.961"W	138.91	123.070	4.55	-0.26	-14.06
4615.00	19.140	154.274	4601.58	135.46	-85.23	120.81	1629558.71	328420.23	39°23'39.435"N	80°48'38.905"W	147.85	125.204	1.81	1.00	-4.62
4647.00	19.410	151.564	4631.78	146.00	-94.63	125.62	1629563.39	328410.76	39°23'39.342"N	80°48'38.844"W	157.27	126.993	2.92	0.84	-8.47
4679.00	19.390	146.724	4661.97	156.62	-103.75	131.06	1629568.70	328401.56	39°23'39.252"N	80°48'38.774"W	167.16	128.366	5.02	-0.06	-15.12
4710.00	19.050	137.294	4691.25	166.72	-111.77	137.32	1629574.84	328393.45	39°23'39.173"N	80°48'38.695"W	177.06	129.144	10.06	-1.10	-30.42
4742.00	18.740	128.194	4721.53	176.65	-118.79	144.90	1629582.32	328386.32	39°23'39.104"N	80°48'38.598"W	187.37	129.345	9.25	-0.97	-28.44
4774.00	18.640	119.494	4751.85	185.92	-124.49	153.40	1629590.73	328380.50	39°23'39.047"N	80°48'38.490"W	197.55	129.061	8.71	-0.31	-27.19
4806.00	17.180	110.034	4782.30	194.06	-128.63	162.29	1629599.56	328376.24	39°23'39.006"N	80°48'38.377"W	207.08	128.399	10.16	-4.56	-29.56
4837.00	16.050	105.034	4812.01	200.73	-131.31	170.73	1629607.96	328373.43	39°23'38.980"N	80°48'38.269"W	215.38	127.563	5.88	-3.65	-16.13
4868.00	15.270	103.144	4841.86	206.67	-133.35	178.84	1629616.04	328371.27	39°23'38.960"N	80°48'38.166"W	223.08	126.708	3.01	-2.52	-6.10

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WELLPATH DATA (203 stations)															
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4900.00	13.020	107.334	4872.89	212.32	-135.38	186.39	1629623.56	328369.13	39°23'38.940"N	80°48'38.070"W	230.37	125.992	7.72	-7.03	13.09
4931.00	11.470	116.414	4903.19	217.53	-137.79	192.49	1629629.61	328366.63	39°23'38.916"N	80°48'37.992"W	236.72	125.597	7.96	-5.00	29.29
5026.00	13.480	128.094	4995.95	235.87	-148.83	209.66	1629646.63	328355.35	39°23'38.807"N	80°48'37.773"W	257.12	125.369	3.39	2.12	12.29
5121.00	15.180	125.464	5087.99	257.65	-162.88	228.51	1629665.27	328341.03	39°23'38.668"N	80°48'37.533"W	280.62	125.480	1.92	1.79	-2.77
5217.00	13.260	120.284	5181.05	278.86	-175.72	248.26	1629684.82	328327.89	39°23'38.541"N	80°48'37.282"W	304.15	125.292	2.40	-2.00	-5.40
5311.00	13.490	116.444	5272.50	297.59	-186.04	267.38	1629703.80	328317.30	39°23'38.439"N	80°48'37.038"W	325.74	124.830	0.98	0.24	-4.09
5375.00	13.310	117.454	5334.76	310.18	-192.76	280.60	1629716.92	328310.38	39°23'38.373"N	80°48'36.870"W	340.44	124.487	0.46	-0.28	1.58
5406.00	13.630	120.214	5364.91	316.44	-196.24	286.93	1629723.19	328306.81	39°23'38.338"N	80°48'36.789"W	347.62	124.370	2.32	1.03	8.90
5438.00	15.100	123.824	5395.91	323.52	-200.46	293.65	1629729.85	328302.49	39°23'38.296"N	80°48'36.703"W	355.55	124.320	5.38	4.59	11.28
5470.00	17.170	127.864	5426.65	331.71	-205.68	300.84	1629736.96	328297.17	39°23'38.245"N	80°48'36.612"W	364.43	124.360	7.36	6.47	12.63
5502.00	19.080	132.474	5457.06	341.14	-212.11	308.43	1629744.45	328290.63	39°23'38.181"N	80°48'36.515"W	374.33	124.517	7.46	5.97	14.41
5533.00	21.230	133.964	5486.16	351.43	-219.43	316.21	1629752.12	328283.20	39°23'38.109"N	80°48'36.416"W	384.89	124.759	7.13	6.94	4.81
5565.00	23.340	133.054	5515.77	363.13	-227.78	325.01	1629760.80	328274.72	39°23'38.026"N	80°48'36.304"W	396.88	125.025	6.68	6.59	-2.84
5596.00	24.700	130.664	5544.08	375.20	-236.20	334.41	1629770.08	328266.17	39°23'37.943"N	80°48'36.184"W	409.41	125.234	5.39	4.39	-7.71
5628.00	24.110	125.944	5573.23	387.58	-244.39	344.78	1629780.32	328257.83	39°23'37.862"N	80°48'36.052"W	422.61	125.331	6.37	-1.84	-14.75
5679.00	24.230	120.104	5619.76	406.35	-255.76	362.27	1629797.64	328246.21	39°23'37.750"N	80°48'35.829"W	443.45	125.222	4.69	0.24	-11.45
5711.00	22.510	115.024	5649.14	417.20	-261.64	373.50	1629808.79	328240.16	39°23'37.692"N	80°48'35.686"W	456.02	125.012	8.27	-5.38	-15.88
5775.00	24.800	111.104	5707.76	438.00	-271.66	397.13	1629832.27	328229.80	39°23'37.593"N	80°48'35.385"W	481.15	124.375	4.34	3.58	-6.12
5869.00	33.460	110.884	5789.79	474.10	-288.03	439.81	1629874.71	328212.81	39°23'37.431"N	80°48'34.842"W	525.73	123.220	9.21	9.21	-0.23
5965.00	41.970	111.414	5865.67	520.56	-309.22	494.52	1629929.10	328190.82	39°23'37.222"N	80°48'34.145"W	583.24	122.017	8.87	8.86	0.55
6060.00	49.740	115.854	5931.80	576.30	-336.67	556.83	1629990.99	328162.47	39°23'36.950"N	80°48'33.351"W	650.69	121.158	8.84	8.18	4.67
6155.00	58.560	118.404	5987.39	641.79	-371.83	625.24	1630058.88	328126.31	39°23'36.603"N	80°48'32.480"W	727.45	120.740	9.53	9.28	2.68
6250.00	64.070	118.234	6032.97	713.57	-411.35	698.58	1630131.63	328085.73	39°23'36.212"N	80°48'31.546"W	810.69	120.491	5.80	5.80	-0.18
6345.00	68.010	117.414	6071.54	787.96	-451.85	775.34	1630207.79	328044.12	39°23'35.812"N	80°48'30.568"W	897.40	120.233	4.22	4.15	-0.86
6440.00	70.120	118.794	6105.49	864.24	-493.65	853.60	1630285.43	328001.18	39°23'35.399"N	80°48'29.571"W	986.06	120.042	2.60	2.22	1.45
6535.00	70.580	121.584	6137.44	942.75	-538.64	930.92	1630362.08	327955.07	39°23'34.954"N	80°48'28.586"W	1075.52	120.054	2.81	0.48	2.94
6631.00	70.580	122.594	6169.36	1023.61	-586.73	1007.63	1630438.07	327905.87	39°23'34.479"N	80°48'27.609"W	1166.00	120.212	0.99	0.00	1.05
6726.00	70.610	120.944	6200.92	1103.40	-633.91	1083.80	1630513.55	327857.59	39°23'34.012"N	80°48'26.639"W	1255.57	120.323	1.64	0.03	-1.74
6820.00	70.610	119.914	6232.13	1181.40	-678.81	1160.26	1630589.33	327811.57	39°23'33.568"N	80°48'25.665"W	1344.24	120.330	1.03	0.00	-1.10
6916.00	70.540	120.124	6264.06	1260.74	-724.11	1238.65	1630667.05	327765.14	39°23'33.121"N	80°48'24.667"W	1434.77	120.310	0.22	-0.07	0.22

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# Actual Wellpath Report

SHR-60 514465 ST01 AWP Proj: 17532' (-0.83627)  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	EQT	Slot	Slot 514465
Area	Tyler County, WV	Well	SHR-60 514465 ST01
Field	Tyler (True)	Wellbore	SHR-60 514465 ST01 AWB
Facility	SHR-60 Pad		

WELLPATH DATA (203 stations)															
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
7011.00	70.570	120.704	6295.68	1339.53	-769.46	1315.90	1630743.63	327718.67	39°23'32.672"N	80°48'23.683"W	1524.35	120.316	0.58	0.03	0.61
7106.00	70.580	119.784	6327.28	1418.20	-814.58	1393.30	1630820.36	327672.43	39°23'32.226"N	80°48'22.697"W	1613.95	120.312	0.91	0.01	-0.97
7201.00	70.550	119.644	6358.89	1496.47	-858.99	1471.11	1630897.50	327626.89	39°23'31.787"N	80°48'21.706"W	1703.53	120.281	0.14	-0.03	-0.15
7296.00	70.580	118.784	6390.50	1574.36	-902.71	1549.30	1630975.04	327582.03	39°23'31.355"N	80°48'20.710"W	1793.10	120.228	0.85	0.03	-0.91
7391.00	70.680	120.264	6422.01	1652.51	-946.87	1627.28	1631052.37	327536.74	39°23'30.919"N	80°48'19.717"W	1882.71	120.194	1.47	0.11	1.56
7486.00	70.550	123.234	6453.55	1732.30	-994.02	1703.47	1631127.86	327488.49	39°23'30.453"N	80°48'18.747"W	1972.28	120.265	2.95	-0.14	3.13
7581.00	70.510	124.554	6485.21	1813.51	-1043.97	1777.82	1631201.47	327437.46	39°23'29.959"N	80°48'17.800"W	2061.68	120.422	1.31	-0.04	1.39
7675.00	70.620	124.644	6516.49	1894.35	-1094.30	1850.79	1631273.69	327386.07	39°23'29.461"N	80°48'16.870"W	2150.09	120.594	0.15	0.12	0.10
7769.00	70.880	124.814	6547.48	1975.36	-1144.86	1923.72	1631345.88	327334.46	39°23'28.962"N	80°48'15.941"W	2238.62	120.758	0.33	0.28	0.18
7864.00	76.050	132.064	6574.54	2060.66	-1201.47	1994.93	1631416.24	327276.81	39°23'28.402"N	80°48'15.034"W	2328.79	121.059	9.12	5.44	7.63
7959.00	79.630	140.124	6594.58	2151.16	-1268.34	2059.23	1631479.56	327209.02	39°23'27.741"N	80°48'14.216"W	2418.50	121.630	9.11	3.77	8.48
8054.00	83.180	147.194	6608.80	2244.64	-1343.96	2114.83	1631534.04	327132.60	39°23'26.994"N	80°48'13.507"W	2505.74	122.436	8.25	3.74	7.44
8149.00	85.870	152.664	6617.87	2339.14	-1425.76	2162.18	1631580.20	327050.12	39°23'26.185"N	80°48'12.904"W	2589.95	123.401	6.39	2.83	5.76
8243.00	89.420	153.664	6621.73	2432.78	-1509.55	2204.57	1631621.36	326965.72	39°23'25.357"N	80°48'12.365"W	2671.87	124.401	3.92	3.78	1.06
8338.00	89.350	155.264	6622.75	2527.31	-1595.27	2245.52	1631661.05	326879.43	39°23'24.510"N	80°48'11.843"W	2754.49	125.391	1.69	-0.07	1.68
8433.00	89.080	156.444	6624.05	2621.59	-1681.94	2284.38	1631698.64	326792.20	39°23'23.653"N	80°48'11.348"W	2836.78	126.364	1.27	-0.28	1.24
8528.00	89.080	156.414	6625.57	2715.74	-1769.01	2322.36	1631735.34	326704.59	39°23'22.793"N	80°48'10.865"W	2919.38	127.298	0.03	0.00	-0.03
8623.00	88.980	156.544	6627.18	2809.88	-1856.10	2360.27	1631771.98	326616.96	39°23'21.932"N	80°48'10.382"W	3002.66	128.181	0.17	-0.11	0.14
8717.00	89.570	156.954	6628.37	2902.97	-1942.46	2397.38	1631807.81	326530.07	39°23'21.078"N	80°48'09.909"W	3085.54	129.016	0.76	0.63	0.44
8812.00	89.750	158.984	6628.94	2996.76	-2030.52	2433.01	1631842.16	326441.51	39°23'20.208"N	80°48'09.456"W	3168.99	129.847	2.15	0.19	2.14
8907.00	89.660	160.094	6629.42	3090.10	-2119.52	2466.22	1631874.06	326352.04	39°23'19.328"N	80°48'09.033"W	3251.86	130.676	1.17	-0.09	1.17
9002.00	89.780	161.534	6629.89	3183.02	-2209.24	2497.44	1631903.97	326261.88	39°23'18.441"N	80°48'08.635"W	3334.36	131.496	1.52	0.13	1.52
9097.00	89.910	160.734	6630.15	3275.84	-2299.13	2528.16	1631933.37	326171.55	39°23'17.553"N	80°48'08.244"W	3417.25	132.284	0.85	0.14	-0.84
9192.00	90.120	159.444	6630.12	3369.01	-2388.45	2560.51	1631964.41	326081.77	39°23'16.670"N	80°48'07.832"W	3501.56	133.009	1.38	0.22	-1.36
9287.00	89.880	157.004	6630.12	3462.72	-2476.67	2595.75	1631998.36	325993.05	39°23'15.798"N	80°48'07.384"W	3587.73	133.655	2.58	-0.25	-2.57
9382.00	90.000	154.734	6630.22	3557.00	-2563.36	2634.59	1632035.92	325905.81	39°23'14.941"N	80°48'06.889"W	3675.85	134.215	2.39	0.13	-2.39
9477.00	89.940	150.524	6630.27	3651.77	-2647.71	2678.25	1632078.35	325820.84	39°23'14.108"N	80°48'06.333"W	3766.08	134.671	4.43	-0.06	-4.43
9572.00	89.660	148.454	6630.60	3746.76	-2729.55	2726.48	1632125.38	325738.31	39°23'13.299"N	80°48'05.719"W	3857.99	135.032	2.20	-0.29	-2.18
9667.00	89.720	149.134	6631.12	3841.75	-2810.80	2775.70	1632173.41	325656.35	39°23'12.496"N	80°48'05.092"W	3950.33	135.360	0.72	0.06	0.72
9762.00	89.750	150.494	6631.56	3936.74	-2892.91	2823.47	1632219.97	325573.55	39°23'11.684"N	80°48'04.484"W	4042.39	135.696	1.43	0.03	1.43

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# Actual Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	EQT	Slot	Slot 514465
Area	Tyler County, WV	Well	SHR-60 514465 ST01
Field	Tyler (True)	Wellbore	SHR-60 514465 ST01 AWB
Facility	SHR-60 Pad		

WELLPATH DATA (203 stations)															
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
9857.00	89.540	150.524	6632.14	4031.69	-2975.60	2870.23	1632265.52	325490.19	39°23'10.867"N	80°48'03.888"W	4134.30	136.033	0.22	-0.22	0.03
9952.00	89.350	153.944	6633.06	4126.51	-3059.65	2914.48	1632308.53	325405.52	39°23'10.036"N	80°48'03.325"W	4225.59	136.392	3.61	-0.20	3.60
10047.00	89.380	155.704	6634.12	4220.98	-3145.61	2954.89	1632347.68	325318.97	39°23'09.186"N	80°48'02.810"W	4315.82	136.791	1.85	0.03	1.85
10141.00	89.450	154.794	6635.08	4314.38	-3230.97	2994.25	1632385.78	325233.05	39°23'08.343"N	80°48'02.309"W	4405.08	137.178	0.97	0.07	-0.97
10237.00	89.480	153.974	6635.97	4409.93	-3317.53	3035.75	1632426.02	325145.90	39°23'07.487"N	80°48'01.781"W	4496.86	137.540	0.85	0.03	-0.85
10331.00	89.480	153.844	6636.83	4503.55	-3401.95	3077.09	1632466.12	325060.90	39°23'06.653"N	80°48'01.254"W	4587.13	137.870	0.14	0.00	-0.14
10426.00	89.170	156.364	6637.95	4597.97	-3488.11	3117.07	1632504.84	324974.17	39°23'05.801"N	80°48'00.745"W	4677.93	138.215	2.67	-0.33	2.65
10521.00	88.980	155.784	6639.48	4692.20	-3574.93	3155.60	1632542.09	324886.79	39°23'04.943"N	80°48'00.255"W	4768.43	138.565	0.64	-0.20	-0.61
10615.00	89.690	158.734	6640.57	4785.16	-3661.61	3191.93	1632577.15	324799.60	39°23'04.086"N	80°47'59.792"W	4857.55	138.920	3.23	0.76	3.14
10710.00	89.850	160.954	6640.95	4878.40	-3750.79	3224.66	1632608.58	324709.96	39°23'03.205"N	80°47'59.376"W	4946.40	139.313	2.34	0.17	2.34
10804.00	89.910	160.564	6641.15	4970.37	-3839.53	3255.64	1632638.25	324620.78	39°23'02.327"N	80°47'58.981"W	5034.00	139.705	0.42	0.06	-0.41
10899.00	89.750	158.814	6641.43	5063.66	-3928.62	3288.61	1632669.92	324531.22	39°23'01.447"N	80°47'58.561"W	5123.38	140.068	1.85	-0.17	-1.84
10994.00	89.600	156.074	6641.97	5157.58	-4016.35	3325.05	1632705.07	324442.98	39°23'00.580"N	80°47'58.098"W	5214.12	140.379	2.89	-0.16	-2.88
11089.00	90.180	155.954	6642.15	5251.83	-4103.14	3363.67	1632742.42	324355.63	39°22'59.722"N	80°47'57.606"W	5305.66	140.656	0.62	0.61	-0.13
11184.00	90.120	158.644	6641.90	5345.79	-4190.77	3400.33	1632777.79	324267.48	39°22'58.856"N	80°47'57.139"W	5396.74	140.945	2.83	-0.06	2.83
11279.00	90.120	159.564	6641.70	5439.26	-4279.52	3434.21	1632810.38	324178.25	39°22'57.979"N	80°47'56.708"W	5487.09	141.254	0.97	0.00	0.97
11374.00	90.060	156.474	6641.56	5533.03	-4367.61	3469.77	1632844.64	324089.66	39°22'57.108"N	80°47'56.255"W	5578.11	141.535	3.25	-0.06	-3.25
11469.00	89.880	152.154	6641.61	5627.57	-4453.20	3510.94	1632884.55	324003.48	39°22'56.262"N	80°47'55.731"W	5670.77	141.747	4.55	-0.19	-4.55
11565.00	89.850	148.784	6641.83	5723.52	-4536.72	3558.25	1632930.64	323919.29	39°22'55.436"N	80°47'55.129"W	5765.67	141.892	3.51	-0.03	-3.51
11660.00	90.550	147.234	6641.50	5818.50	-4617.28	3608.57	1632979.78	323838.00	39°22'54.640"N	80°47'54.488"W	5860.13	141.991	1.79	0.74	-1.63
11755.00	92.060	147.104	6639.34	5913.44	-4697.09	3660.07	1633030.10	323757.46	39°22'53.851"N	80°47'53.832"W	5954.72	142.074	1.60	1.59	-0.14
11851.00	89.510	153.204	6638.02	6009.35	-4780.30	3707.81	1633076.62	323673.56	39°22'53.029"N	80°47'53.224"W	6049.72	142.201	6.89	-2.66	6.35
11946.00	89.450	155.824	6638.88	6103.87	-4866.04	3748.68	1633116.24	323587.23	39°22'52.181"N	80°47'52.704"W	6142.56	142.390	2.76	-0.06	2.76
12041.00	89.110	156.884	6640.08	6198.04	-4953.06	3786.78	1633153.06	323499.67	39°22'51.321"N	80°47'52.219"W	6234.78	142.601	1.17	-0.36	1.12
12136.00	89.170	159.214	6641.50	6291.79	-5041.16	3822.29	1633187.28	323411.07	39°22'50.450"N	80°47'51.767"W	6326.39	142.830	2.45	0.06	2.45
12231.00	89.380	160.384	6642.70	6385.05	-5130.30	3855.09	1633218.77	323321.46	39°22'49.569"N	80°47'51.349"W	6417.30	143.078	1.25	0.22	1.23
12326.00	89.350	160.154	6643.76	6478.15	-5219.72	3887.16	1633249.53	323231.59	39°22'48.685"N	80°47'50.941"W	6508.11	143.325	0.24	-0.03	-0.24
12421.00	89.510	159.214	6644.70	6571.45	-5308.81	3920.14	1633281.21	323142.04	39°22'47.805"N	80°47'50.521"W	6599.31	143.557	1.00	0.17	-0.99
12517.00	89.510	157.784	6645.52	6666.08	-5398.12	3955.33	1633315.08	323052.23	39°22'46.922"N	80°47'50.073"W	6692.11	143.769	1.49	0.00	-1.49
12612.00	89.510	152.854	6646.34	6760.43	-5484.41	3994.98	1633353.47	322965.37	39°22'46.069"N	80°47'49.569"W	6785.18	143.929	5.19	0.00	-5.19

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# Actual Wellpath Report

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REFERENCE WELLPATH IDENTIFICATION			
Operator	EQT	Slot	Slot 514465
Area	Tyler County, WV	Well	SHR-60 514465 ST01
Field	Tyler (True)	Wellbore	SHR-60 514465 ST01 AWB
Facility	SHR-60 Pad		

WELLPATH DATA (203 stations)															
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
12707.00	89.350	152.554	6647.28	6855.21	-5568.83	4038.55	1633395.80	322880.33	39°22'45.235"N	80°47'49.014"W	6879.08	144.050	0.36	-0.17	-0.32
12802.00	89.850	155.524	6647.94	6949.80	-5654.23	4080.13	1633436.13	322794.34	39°22'44.391"N	80°47'48.485"W	6972.64	144.186	3.17	0.53	3.13
12896.00	89.660	157.304	6648.35	7042.98	-5740.37	4117.74	1633472.47	322707.66	39°22'43.539"N	80°47'48.006"W	7064.53	144.347	1.90	-0.20	1.89
12991.00	89.850	158.034	6648.75	7136.84	-5828.25	4153.83	1633507.28	322619.27	39°22'42.671"N	80°47'47.546"W	7157.01	144.522	0.79	0.20	0.77
13087.00	89.780	156.014	6649.06	7231.86	-5916.63	4191.31	1633543.46	322530.36	39°22'41.797"N	80°47'47.069"W	7250.76	144.686	2.11	-0.07	-2.10
13182.00	89.970	155.634	6649.27	7326.15	-6003.29	4230.21	1633581.09	322443.14	39°22'40.940"N	80°47'46.574"W	7343.99	144.830	0.45	0.20	-0.40
13277.00	89.820	155.354	6649.44	7420.51	-6089.73	4269.62	1633619.23	322356.14	39°22'40.086"N	80°47'46.072"W	7437.37	144.965	0.33	-0.16	-0.29
13372.00	89.910	156.224	6649.67	7514.80	-6176.38	4308.58	1633656.92	322268.94	39°22'39.230"N	80°47'45.576"W	7530.70	145.101	0.92	0.09	0.92
13468.00	89.940	156.514	6649.79	7609.97	-6264.33	4347.06	1633694.11	322180.44	39°22'38.360"N	80°47'45.087"W	7624.87	145.242	0.30	0.03	0.30
13563.00	89.750	155.694	6650.05	7704.21	-6351.18	4385.54	1633731.32	322093.04	39°22'37.502"N	80°47'44.597"W	7718.19	145.375	0.89	-0.20	-0.86
13658.00	90.000	155.744	6650.26	7798.52	-6437.78	4424.61	1633769.11	322005.89	39°22'36.646"N	80°47'44.099"W	7811.67	145.500	0.27	0.26	0.05
13752.00	90.150	155.984	6650.13	7891.81	-6523.56	4463.04	1633806.29	321919.56	39°22'35.798"N	80°47'43.610"W	7904.15	145.622	0.30	0.16	0.26
13848.00	89.940	155.754	6650.06	7987.09	-6611.17	4502.29	1633844.26	321831.39	39°22'34.932"N	80°47'43.111"W	7998.64	145.745	0.32	-0.22	-0.24
13943.00	89.690	157.034	6650.37	8081.26	-6698.22	4540.33	1633881.02	321743.80	39°22'34.072"N	80°47'42.626"W	8092.02	145.869	1.37	-0.26	1.35
14037.00	89.910	158.864	6650.69	8174.06	-6785.34	4575.62	1633915.03	321656.18	39°22'33.210"N	80°47'42.177"W	8183.96	146.007	1.96	0.23	1.95
14133.00	90.180	159.864	6650.62	8268.44	-6875.18	4609.46	1633947.55	321565.86	39°22'32.322"N	80°47'41.747"W	8277.39	146.160	1.08	0.28	1.04
14228.00	90.000	157.944	6650.47	8361.97	-6963.81	4643.65	1633980.44	321476.75	39°22'31.446"N	80°47'41.311"W	8370.07	146.304	2.03	-0.19	-2.02
14323.00	90.090	155.624	6650.40	8456.05	-7051.11	4681.09	1634016.61	321388.91	39°22'30.583"N	80°47'40.835"W	8463.49	146.421	2.44	0.09	-2.44
14419.00	89.690	153.954	6650.58	8551.52	-7137.96	4721.98	1634056.23	321301.48	39°22'29.725"N	80°47'40.314"W	8558.48	146.514	1.79	-0.42	-1.74
14514.00	89.630	152.874	6651.14	8646.22	-7222.91	4764.50	1634097.50	321215.92	39°22'28.885"N	80°47'39.773"W	8652.80	146.590	1.14	-0.06	-1.14
14609.00	90.520	152.964	6651.02	8740.97	-7307.49	4807.75	1634139.50	321130.72	39°22'28.049"N	80°47'39.223"W	8747.22	146.658	0.94	0.94	0.09
14704.00	89.320	152.834	6651.15	8835.73	-7392.06	4851.03	1634181.54	321045.53	39°22'27.213"N	80°47'38.672"W	8841.66	146.725	1.27	-1.26	-0.14
14798.00	89.140	153.194	6652.41	8929.47	-7475.82	4893.68	1634222.96	320961.16	39°22'26.385"N	80°47'38.129"W	8935.10	146.791	0.43	-0.19	0.38
14893.00	88.890	153.984	6654.05	9024.13	-7560.89	4935.93	1634263.96	320875.49	39°22'25.545"N	80°47'37.591"W	9029.42	146.863	0.87	-0.26	0.83
14988.00	89.260	153.554	6655.58	9118.76	-7646.09	4977.91	1634304.70	320789.69	39°22'24.702"N	80°47'37.057"W	9123.73	146.934	0.60	0.39	-0.45
15083.00	89.450	155.734	6656.65	9213.26	-7731.93	5018.59	1634344.12	320703.27	39°22'23.854"N	80°47'36.539"W	9217.86	147.013	2.30	0.20	2.29
15178.00	89.450	156.064	6657.56	9307.53	-7818.65	5057.38	1634381.64	320616.00	39°22'22.997"N	80°47'36.045"W	9311.73	147.104	0.35	0.00	0.35
15272.00	89.600	153.564	6658.34	9401.01	-7903.70	5097.38	1634420.39	320530.38	39°22'22.156"N	80°47'35.536"W	9404.88	147.181	2.66	0.16	-2.66
15368.00	89.380	153.124	6659.20	9496.71	-7989.49	5140.45	1634462.19	320443.97	39°22'21.308"N	80°47'34.988"W	9500.33	147.243	0.51	-0.23	-0.46
15463.00	89.660	155.504	6659.99	9591.26	-8075.10	5181.62	1634502.11	320357.78	39°22'20.462"N	80°47'34.464"W	9594.60	147.313	2.52	0.29	2.51

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# Actual Wellpath Report

SHR-60 514465 ST01 AWP Proj: 17532' (-0.83627)  
Page 8 of 9



REFERENCE WELLPATH IDENTIFICATION			
Operator	EQT	Slot	Slot 514465
Area	Tyler County, WV	Well	SHR-60 514465 ST01
Field	Tyler (True)	Wellbore	SHR-60 514465 ST01 AWB
Facility	SHR-60 Pad		

WELLPATH DATA (203 stations)															
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
15557.00	89.720	160.144	6660.50	9684.08	-8162.12	5217.09	1634536.31	320270.26	39°22'19.602"N	80°47'34.012"W	9687.01	147.414	4.94	0.06	4.94
15652.00	89.510	158.204	6661.14	9777.52	-8250.90	5250.86	1634568.78	320180.99	39°22'18.724"N	80°47'33.582"W	9780.03	147.527	2.05	-0.22	-2.04
15747.00	89.350	154.044	6662.09	9871.73	-8337.75	5289.31	1634605.95	320093.60	39°22'17.866"N	80°47'33.093"W	9873.95	147.610	4.38	-0.17	-4.38
15842.00	90.250	150.944	6662.42	9966.52	-8422.00	5333.18	1634648.58	320008.72	39°22'17.033"N	80°47'32.535"W	9968.59	147.656	3.40	0.95	-3.26
15937.00	90.030	152.854	6662.19	10061.38	-8505.80	5377.92	1634692.10	319924.28	39°22'16.205"N	80°47'31.965"W	10063.33	147.696	2.02	-0.23	2.01
16032.00	90.370	148.594	6661.85	10156.31	-8588.64	5424.37	1634737.33	319840.77	39°22'15.386"N	80°47'31.374"W	10158.18	147.725	4.50	0.36	-4.48
16128.00	90.280	150.944	6661.31	10252.28	-8671.58	5472.70	1634784.44	319757.14	39°22'14.566"N	80°47'30.759"W	10254.11	147.744	2.45	-0.09	2.45
16223.00	90.280	154.554	6660.84	10347.04	-8756.02	5516.19	1634826.69	319672.08	39°22'13.731"N	80°47'30.205"W	10348.73	147.790	3.80	0.00	3.80
16319.00	90.400	155.074	6660.27	10442.52	-8842.89	5557.04	1634866.27	319584.63	39°22'12.873"N	80°47'29.685"W	10444.02	147.854	0.56	0.12	0.54
16414.00	90.580	159.644	6659.46	10536.44	-8930.54	5593.60	1634901.55	319496.46	39°22'12.006"N	80°47'29.220"W	10537.70	147.939	4.81	0.19	4.81
16509.00	90.460	161.584	6658.60	10629.43	-9020.15	5625.13	1634931.76	319406.40	39°22'11.120"N	80°47'28.819"W	10630.39	148.052	2.05	-0.13	2.04
16603.00	90.120	161.194	6658.12	10721.17	-9109.23	5655.13	1634960.46	319316.90	39°22'10.240"N	80°47'28.437"W	10721.88	148.167	0.55	-0.36	-0.41
16699.00	90.150	161.154	6657.90	10814.95	-9200.10	5686.11	1634990.11	319225.60	39°22'09.342"N	80°47'28.043"W	10815.44	148.282	0.05	0.03	-0.04
16793.00	90.000	161.104	6657.77	10906.79	-9289.04	5716.52	1635019.21	319136.22	39°22'08.463"N	80°47'27.656"W	10907.10	148.392	0.17	-0.16	-0.05
16889.00	90.120	159.834	6657.67	11000.81	-9379.52	5748.61	1635049.97	319045.29	39°22'07.568"N	80°47'27.248"W	11000.99	148.496	1.33	0.13	-1.32
16983.00	90.120	153.544	6657.48	11093.88	-9465.80	5785.79	1635085.89	318958.48	39°22'06.715"N	80°47'26.775"W	11094.00	148.565	6.69	0.00	-6.69
17078.00	89.600	148.654	6657.71	11188.78	-9548.94	5831.69	1635130.57	318874.68	39°22'05.894"N	80°47'26.190"W	11188.88	148.587	5.18	-0.55	-5.15
17172.00	88.890	148.824	6658.95	11282.77	-9629.29	5880.47	1635178.16	318793.64	39°22'05.099"N	80°47'25.570"W	11282.87	148.588	0.78	-0.76	0.18
17267.00	89.720	151.284	6660.10	11377.73	-9711.59	5927.88	1635224.37	318710.65	39°22'04.286"N	80°47'24.966"W	11377.82	148.600	2.73	0.87	2.59
17362.00	89.540	157.934	6660.71	11472.19	-9797.37	5968.59	1635263.82	318624.30	39°22'03.438"N	80°47'24.448"W	11472.25	148.650	7.00	-0.19	7.00
17456.00	89.540	161.384	6661.47	11564.50	-9885.49	6001.26	1635295.20	318535.72	39°22'02.567"N	80°47'24.032"W	11564.51	148.739	3.67	0.00	3.67
17507.00	89.720	162.194	6661.80	11614.20	-9933.93	6017.20	1635310.43	318487.05	39°22'02.088"N	80°47'23.829"W	11614.20	148.796	1.63	0.35	1.59
17532.00	89.720	162.194	6661.92	11638.52	-9957.73	6024.85	1635317.73	318463.14	39°22'01.853"N	80°47'23.732"W	11638.52	148.824	0.00	0.00	0.00

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# Actual Wellpath Report

SHR-60 514465 ST01 AWP Proj: 17532' (-0.83627)  
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REFERENCE WELLPATH IDENTIFICATION			
Operator	EQT	Slot	Slot 514465
Area	Tyler County, WV	Well	SHR-60 514465 ST01
Field	Tyler (True)	Wellbore	SHR-60 514465 ST01 AWB
Facility	SHR-60 Pad		

WELLPATH COMPOSITION - Ref Wellbore: SHR-60 514465 ST01 AWB Ref Wellpath: SHR-60 514465 ST01 AWP Proj: 17532' (-0.83627)				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
25.00	17507.00	BHI Unknown Tool (Standard)	Full Log	SHR-60 514465 ST01 AWB
17507.00	17532.00	Blind Drilling (std)	Projection to bit	SHR-60 514465 ST01 AWB

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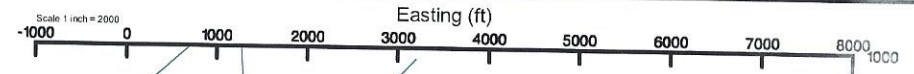
# EQT

Location: Tyler County, WV  
 Field: Tyler  
 Facility: SHR-60 Pad  
 Slot: Slot 514465  
 Well: SHR-60 514465 ST01  
 Wellbore: SHR-60 514465 ST01 PWB

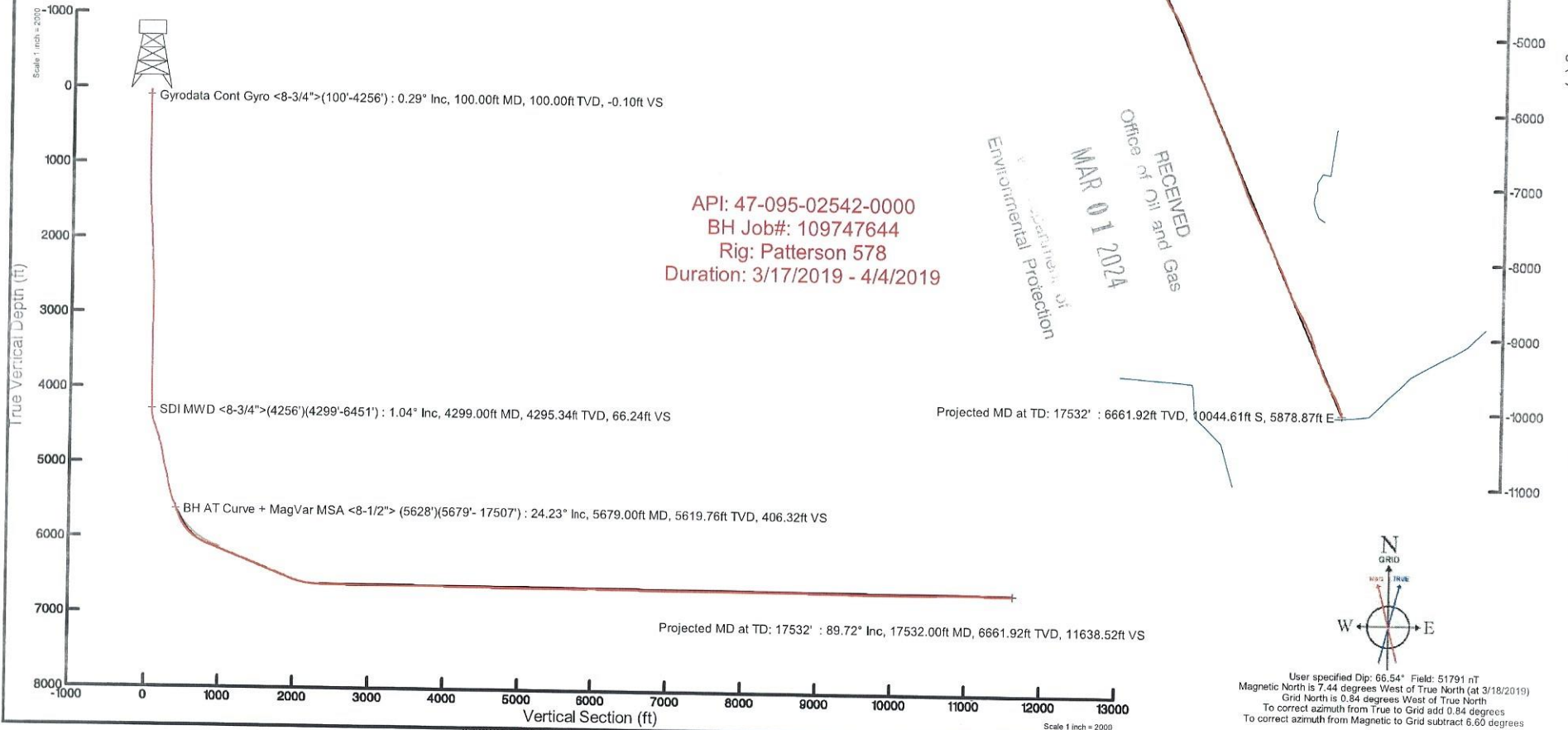
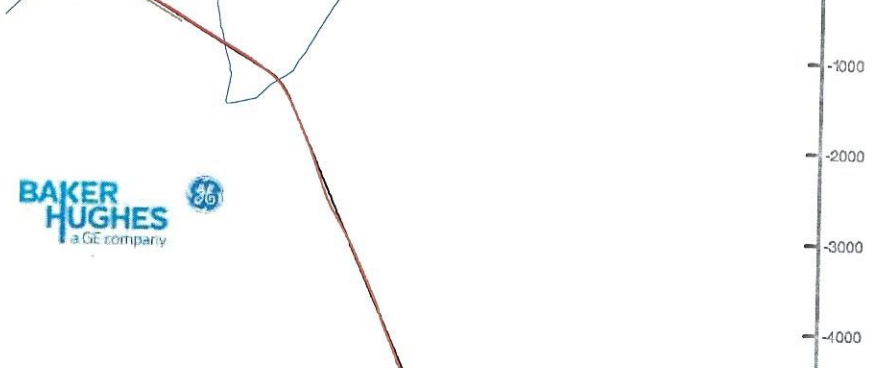
Reference: e: 01-10-1983 Slot 514465	Grid System: NAD2011 (Lambert Azimuthal Equal Area)
Drawn by: J. G. ...	North Reference: Grid North
Scale: True distance	Units: Feet
Created by: jessie on 2019-04-05	Drawn by: jessie on 2019-04-05

Facility Name	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude		
SHR-60 Pad	1629438.620	328582.210	39°23'41.016"N	80°48'30.465"W		
Slot	Local E (ft)	Local N (ft)	Grid East (US ft)	Grid North (US ft)	Latitude	Longitude
Slot 514465	-75.00	0.55	1629439.170	328597.210	39°23'40.278"N	80°48'30.444"W
Patterson 578 (RRB) to Ground level (At Slot: Slot 514465)					25ft	
Mean Sea Level to Ground level (At Slot: Slot 514465)					-101ft	
Patterson 578 (RRB) to Mean Sea Level					-103ft	

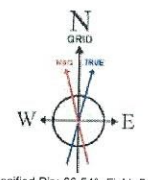
Design Component	END (ft)	INC (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
ST Inc Cur/KCP	5755.00	32.600	125.420	5689.81	-282.13	349.62	9.18	440.26
Built/Turn	6918.84	30.000	120.000	5740.37	-330.08	417.46	8.00	489.52
Built/Turn	6985.44	42.000	110.000	5875.02	-340.16	506.31	8.00	549.28
Kick	6361.05	70.563	121.509	6081.84	-478.68	781.73	8.00	808.10
KUP	7749.55	70.563	121.509	6544.02	-1163.39	1898.37	0.00	1962.79
LP	8142.96	89.750	166.518	6613.00	-1451.87	2144.37	10.00	2336.02
BHL	17512.01	89.750	166.518	6653.90	-10044.81	5877.60	0.00	11638.15



Gyrodata Cont Gyro <8-3/4">(100'-4256') : 100.00ft TVD, 0.17ft N, 0.08ft E  
 SDI MWD <8-3/4">(4256')(4299'-6451') : 4295.34ft TVD, 19.51ft S, 97.82ft E  
 BH AT Curve + MagVar MSA <8-1/2"> (5628')(5679'- 17507') : 5619.76ft TVD, 261.02ft S, 358.49ft E



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User specified Dip: 66.54° Field: 51791 nT  
 Magnetic North is 7.44 degrees West of True North (at 3/18/2019)  
 Grid North is 0.54 degrees West of True North  
 To correct azimuth from True to Grid add 0.94 degrees  
 To correct azimuth from Magnetic to Grid subtract 6.60 degrees