



Actual Wellpath Report

Galt Unit 1H AWP Proj: 15589'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Galt Unit 1H
Field	Tyler	API	47-095-02561-0000
Facility	Ferrell South Pad	Wellbore	Galt Unit 1H AWB
Slot	Slot #01		

REPORT SETUP INFORMATION

Projection System	NAD27 / UTM Zone 17 North, US feet	Software System	WellArchitect® 6.0
North Reference	Grid	User	Delaset
Scale	0.999601	Report Generated	11/24/2019 at 9:36:34 PM
Convergence at slot	0.05° East	Database	WA_MPL_EasternUS_Defn

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	-45.53	0.83	1663785.46	14333795.19	39°28'19.1400"N	80°55'1.8900"W
Facility Reference Pt			1663784.63	14333840.70	39°28'19.5900"N	80°55'1.9000"W
Field Reference Pt			0.00	0.00	0°00'0.0000"	85°29'19.3013"W

WELLPATH DATUM

Calculation method	Minimum curvature	H&P 519 (RKB) to Facility Vertical Datum	761.00ft
Horizontal Reference Pt	Slot	H&P 519 (RKB) to Mean Sea Level	761.00ft
Vertical Reference Pt	H&P 519 (RKB)	H&P 519 (RKB) to Ground Level at Slot (Slot #01)	30.00ft
MD Reference Pt	H&P 519 (RKB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	161.32°

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WELLPATH DATA (177 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)	Comments
0.00	0.00	211.190	0.00	0.00	0.00	0.00	1663785.46	14333795.19	39°28'19.1400"N	80°55'1.8900"W	0.00	0.000	0.00	0.00	0.00	
30.00	0.00	211.190	30.00	0.00	0.00	0.00	1663785.46	14333795.19	39°28'19.1400"N	80°55'1.8900"W	0.00	0.000	0.00	0.00	0.00	
115.00	0.150	211.190	115.00	0.07	-0.10	-0.06	1663785.40	14333795.09	39°28'19.1391"N	80°55'1.8907"W	0.11	211.190	0.18	0.18	0.00	Gyrodata MS Gyro <17-1/2">(115'-372')
215.00	0.130	223.330	215.00	0.21	-0.29	-0.20	1663785.25	14333794.90	39°28'19.1371"N	80°55'1.8926"W	0.35	215.056	0.04	-0.02	12.14	
315.00	0.420	276.050	315.00	0.11	-0.33	-0.65	1663784.81	14333794.85	39°28'19.1367"N	80°55'1.8982"W	0.73	242.674	0.38	0.29	52.72	
372.00	0.650	268.720	372.00	-0.07	-0.32	-1.18	1663784.28	14333794.87	39°28'19.1369"N	80°55'1.9050"W	1.22	254.840	0.42	0.40	-12.86	
426.00	0.980	283.760	425.99	-0.41	-0.22	-1.93	1663783.53	14333794.97	39°28'19.1379"N	80°55'1.9146"W	1.94	263.625	0.72	0.61	27.85	Panther EM <12-1/4">(372')(426'-2549')
516.00	1.740	251.680	515.97	-0.84	-0.46	-3.98	1663781.48	14333794.73	39°28'19.1355"N	80°55'1.9407"W	4.00	263.369	1.16	0.84	-35.64	
607.00	3.280	227.980	606.88	0.19	-2.64	-7.22	1663778.24	14333792.55	39°28'19.1140"N	80°55'1.9821"W	7.69	249.925	2.01	1.69	-26.04	
697.00	4.580	206.470	696.67	3.76	-7.59	-10.72	1663774.74	14333787.60	39°28'19.0651"N	80°55'2.0268"W	13.13	234.707	2.18	1.44	-24.23	
788.00	5.130	183.880	787.35	10.09	-14.91	-12.60	1663772.86	14333780.28	39°28'18.9928"N	80°55'2.0508"W	19.52	220.197	2.14	0.60	-24.49	
878.00	4.400	161.080	877.05	17.26	-22.19	-11.75	1663773.71	14333773.01	39°28'18.9208"N	80°55'2.0401"W	25.11	207.903	2.24	-0.81	-25.33	
974.00	4.440	145.230	972.76	24.51	-28.73	-8.44	1663777.02	14333766.47	39°28'18.8562"N	80°55'1.9979"W	29.94	196.368	1.27	0.04	-16.51	
1069.00	4.410	158.920	1067.48	31.69	-35.15	-5.03	1663780.43	14333760.05	39°28'18.7926"N	80°55'1.9545"W	35.51	188.137	1.11	-0.03	14.41	
1163.00	4.720	165.150	1161.19	39.16	-42.27	-2.74	1663782.72	14333752.94	39°28'18.7223"N	80°55'1.9254"W	42.35	183.703	0.62	0.33	6.63	
1257.00	3.710	163.960	1254.93	46.06	-48.93	-0.90	1663784.55	14333746.28	39°28'18.6564"N	80°55'1.9021"W	48.93	181.058	1.08	-1.07	-1.27	
1352.00	2.000	158.690	1349.81	50.79	-53.43	0.55	1663786.00	14333741.78	39°28'18.6120"N	80°55'1.8836"W	53.43	179.412	1.82	-1.80	-5.55	
1446.00	0.590	82.810	1443.79	52.52	-54.89	1.62	1663787.08	14333740.32	39°28'18.5975"N	80°55'1.8699"W	54.92	178.305	2.07	-1.50	-80.72	
1540.00	1.750	325.310	1537.77	51.24	-53.65	1.29	1663786.74	14333741.56	39°28'18.6097"N	80°55'1.8742"W	53.67	178.625	2.22	1.23	-125.00	
1635.00	4.980	298.290	1632.60	46.83	-50.50	-3.17	1663782.29	14333744.70	39°28'18.6409"N	80°55'1.9310"W	50.60	183.592	3.70	3.40	-28.44	
1729.00	7.270	292.550	1726.06	39.92	-46.29	-12.26	1663773.20	14333748.92	39°28'18.6826"N	80°55'2.0468"W	47.88	194.831	2.52	2.44	-6.11	
1824.00	9.850	285.180	1820.00	31.43	-41.86	-25.65	1663759.81	14333753.35	39°28'18.7266"N	80°55'2.2176"W	49.09	211.504	2.95	2.72	-7.76	
1918.00	11.940	277.820	1912.30	22.61	-38.43	-43.05	1663742.43	14333756.78	39°28'18.7606"N	80°55'2.4394"W	57.70	228.247	2.67	2.22	-7.83	
2013.00	13.090	274.240	2005.04	14.04	-36.29	-63.51	1663721.97	14333758.91	39°28'18.7819"N	80°55'2.7003"W	73.15	240.255	1.46	1.21	-3.77	
2107.00	17.040	275.470	2095.80	4.26	-34.19	-87.85	1663697.64	14333761.01	39°28'18.8029"N	80°55'3.0106"W	94.27	248.733	4.22	4.20	1.31	
2202.00	18.310	271.560	2186.31	-6.60	-32.46	-116.62	1663668.88	14333762.74	39°28'18.8202"N	80°55'3.3775"W	121.06	254.447	1.83	1.34	-4.12	
2297.00	20.010	266.850	2276.05	-16.12	-32.95	-147.78	1663637.74	14333762.25	39°28'18.8157"N	80°55'3.7748"W	151.40	257.431	2.42	1.79	-4.96	
2391.00	21.780	270.570	2363.87	-26.18	-33.66	-181.28	1663604.25	14333761.54	39°28'18.8090"N	80°55'4.2020"W	184.37	259.482	2.35	1.88	3.96	
2486.00	23.970	272.530	2451.40	-38.97	-32.63	-218.18	1663567.36	14333762.57	39°28'18.8195"N	80°55'4.6726"W	220.61	261.494	2.44	2.31	2.06	
2549.00	26.090	274.340	2508.48	-49.02	-31.02	-244.78	1663540.77	14333764.18	39°28'18.8357"N	80°55'5.0118"W	246.74	262.779	3.58	3.37	2.87	

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Facility	Ferrell South Pad	Wellbore	Galt Unit 1H AWB
Slot	Slot #01		

WELLPATH DATA (177 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)	Comments
2652.00	29.510	279.740	2599.59	-69.96	-25.01	-292.39	1663493.18	14333770.19	39°28'18.8955"N	80°55'5.6188"W	293.46	265.111	4.12	3.32	5.24	Panther EM <8-3/4">(2549')(2652'-5744')
2776.00	31.750	276.190	2706.29	-98.22	-16.32	-354.94	1663430.66	14333778.87	39°28'18.9819"N	80°55'6.4162"W	355.31	267.367	2.32	1.81	-2.86	
2840.00	30.630	273.420	2761.04	-111.44	-13.53	-387.96	1663397.65	14333781.66	39°28'19.0097"N	80°55'6.8372"W	388.19	268.002	2.84	-1.75	-4.33	
2934.00	30.350	275.290	2842.04	-130.09	-9.92	-435.51	1663350.12	14333785.28	39°28'19.0459"N	80°55'7.4436"W	435.62	268.696	1.05	-0.30	1.99	
3033.00	30.480	274.560	2927.42	-150.16	-5.61	-485.44	1663300.21	14333789.58	39°28'19.0889"N	80°55'8.0803"W	485.48	269.338	0.40	0.13	-0.74	
3127.00	30.660	272.590	3008.36	-168.26	-2.63	-533.15	1663252.52	14333792.55	39°28'19.1187"N	80°55'8.6886"W	533.16	269.717	1.08	0.19	-2.10	
3222.00	28.240	268.760	3091.08	-183.79	-2.03	-579.83	1663205.86	14333793.16	39°28'19.1252"N	80°55'9.2838"W	579.83	269.800	3.23	-2.55	-4.03	
3317.00	28.540	271.720	3174.66	-198.44	-1.83	-624.99	1663160.72	14333793.36	39°28'19.1275"N	80°55'9.8596"W	624.99	269.832	1.51	0.32	3.12	
3412.00	28.000	277.920	3258.35	-216.34	1.92	-669.77	1663115.96	14333797.11	39°28'19.1650"N	80°55'10.4306"W	669.77	270.165	3.14	-0.57	6.53	
3506.00	29.220	276.270	3340.87	-235.90	7.47	-714.43	1663071.31	14333802.65	39°28'19.2202"N	80°55'11.0001"W	714.47	270.599	1.55	1.30	-1.76	
3601.00	28.590	278.450	3424.04	-256.04	13.34	-759.97	1663025.80	14333808.52	39°28'19.2787"N	80°55'11.5807"W	760.08	271.006	1.29	-0.66	2.29	
3696.00	26.050	280.010	3508.44	-276.43	20.31	-803.00	1662982.78	14333815.49	39°28'19.3479"N	80°55'12.1293"W	803.26	271.449	2.78	-2.67	1.64	
3785.00	24.680	278.790	3588.85	-294.38	26.55	-840.61	1662945.18	14333821.72	39°28'19.4099"N	80°55'12.6089"W	841.03	271.809	1.65	-1.54	-1.37	
3885.00	25.700	279.180	3679.34	-314.14	33.20	-882.65	1662903.16	14333828.37	39°28'19.4760"N	80°55'13.1448"W	883.27	272.154	1.03	1.02	0.39	
3980.00	28.380	277.830	3763.95	-333.85	39.56	-925.36	1662860.47	14333834.73	39°28'19.5392"N	80°55'13.6894"W	926.20	272.448	2.89	2.82	-1.42	
4074.00	28.140	278.500	3846.75	-353.95	45.88	-969.41	1662816.43	14333841.05	39°28'19.6021"N	80°55'14.2511"W	970.50	272.710	0.42	-0.26	0.71	
4168.00	25.790	272.790	3930.54	-371.56	50.15	-1011.77	1662774.09	14333845.32	39°28'19.6447"N	80°55'14.7912"W	1013.02	272.838	3.72	-2.50	-6.07	
4262.00	26.530	273.180	4014.91	-386.87	52.31	-1053.16	1662732.72	14333847.48	39°28'19.6664"N	80°55'15.3189"W	1054.46	272.844	0.81	0.79	0.41	
4356.00	30.440	274.470	4097.51	-404.05	55.33	-1097.88	1662688.02	14333850.50	39°28'19.6966"N	80°55'15.8891"W	1099.27	272.885	4.21	4.16	1.37	
4451.00	31.080	276.310	4179.15	-423.87	59.90	-1146.24	1662639.67	14333855.07	39°28'19.7422"N	80°55'16.5058"W	1147.81	272.992	1.20	0.67	1.94	
4546.00	29.590	275.940	4261.14	-444.00	65.03	-1193.95	1662591.99	14333860.19	39°28'19.7933"N	80°55'17.1141"W	1195.72	273.117	1.58	-1.57	-0.39	
4640.00	27.280	276.230	4343.80	-462.75	69.77	-1238.45	1662547.50	14333864.93	39°28'19.8405"N	80°55'17.6815"W	1240.42	273.224	2.46	-2.46	0.31	
4735.00	27.870	274.420	4428.00	-480.63	73.84	-1282.24	1662503.74	14333869.00	39°28'19.8811"N	80°55'18.2398"W	1284.36	273.296	1.08	0.62	-1.91	
4829.00	28.830	271.620	4510.73	-497.11	76.18	-1326.80	1662459.19	14333871.33	39°28'19.9046"N	80°55'18.8080"W	1328.98	273.286	1.74	1.02	-2.98	
4924.00	29.010	272.500	4593.89	-513.38	77.83	-1372.71	1662413.30	14333872.98	39°28'19.9213"N	80°55'19.3934"W	1374.91	273.245	0.49	0.19	0.93	
5019.00	29.190	279.240	4676.92	-532.56	82.55	-1418.60	1662367.43	14333877.71	39°28'19.9684"N	80°55'19.9786"W	1421.00	273.331	3.45	0.19	7.09	
5113.00	27.620	275.960	4759.60	-552.38	88.50	-1462.90	1662323.14	14333883.65	39°28'20.0275"N	80°55'20.5434"W	1465.58	273.462	2.35	-1.67	-3.49	
5207.00	27.730	274.490	4842.85	-570.07	92.47	-1506.38	1662279.68	14333887.62	39°28'20.0672"N	80°55'21.0978"W	1509.21	273.513	0.74	0.12	-1.56	
5302.00	29.370	273.850	4926.30	-587.69	95.77	-1551.66	1662234.42	14333890.92	39°28'20.1001"N	80°55'21.6751"W	1554.61	273.532	1.76	1.73	-0.67	
5397.00	28.000	269.900	5009.64	-603.73	97.29	-1597.21	1662188.89	14333892.44	39°28'20.1156"N	80°55'22.2559"W	1600.17	273.486	2.46	-1.44	-4.16	

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5491.00	26.760	273.180	5093.12	-618.64	98.43	-1640.41	1662145.71	14333893.58	39°28'20.1272"N	80°55'22.8068"W	1643.36	273.434	2.08	-1.32	3.49	
5586.00	28.290	272.000	5177.36	-634.55	100.40	-1684.26	1662101.87	14333895.55	39°28'20.1470"N	80°55'23.3660"W	1687.25	273.411	1.71	1.61	-1.24	
5681.00	26.690	254.850	5261.76	-643.83	95.60	-1727.43	1662058.72	14333890.75	39°28'20.1000"N	80°55'23.9164"W	1730.07	273.168	8.47	-1.68	-18.05	
5744.00	23.770	241.690	5318.79	-642.58	85.87	-1752.29	1662033.87	14333881.03	39°28'20.0040"N	80°55'24.2336"W	1754.39	272.806	10.01	-4.63	-20.89	
5801.00	20.930	229.560	5371.53	-636.88	73.81	-1770.16	1662016.01	14333868.97	39°28'19.8850"N	80°55'24.4616"W	1771.70	272.388	9.48	-4.98	-21.28	BH AT Curve <8-1/2">(5744')/5801'-15564'
5839.00	21.090	228.030	5407.01	-631.66	64.84	-1780.41	1662005.76	14333860.00	39°28'19.7964"N	80°55'24.5924"W	1781.59	272.086	1.50	0.42	-4.03	
5932.00	23.990	217.540	5492.93	-614.52	38.64	-1804.38	1661981.80	14333833.81	39°28'19.5377"N	80°55'24.8984"W	1804.80	271.227	5.32	3.12	-11.28	
6026.00	27.850	207.360	5577.50	-588.63	3.96	-1826.14	1661960.05	14333799.14	39°28'19.1951"N	80°55'25.1762"W	1826.14	270.124	6.25	4.11	-10.83	
6119.00	33.370	197.610	5657.56	-552.88	-39.77	-1843.88	1661942.31	14333755.43	39°28'18.7630"N	80°55'25.4030"W	1844.31	268.764	7.97	5.94	-10.48	
6213.00	36.830	189.350	5734.50	-507.14	-92.26	-1856.29	1661929.91	14333702.96	39°28'18.2443"N	80°55'25.5618"W	1858.58	267.155	6.24	3.68	-8.79	
6306.00	42.710	182.350	5805.99	-453.02	-151.36	-1862.12	1661924.08	14333643.89	39°28'17.6603"N	80°55'25.6367"W	1868.26	265.353	7.94	6.32	-7.53	
6400.00	48.570	174.180	5871.73	-388.80	-218.39	-1859.85	1661926.35	14333576.89	39°28'16.9978"N	80°55'25.6085"W	1872.63	263.303	8.79	6.23	-8.69	
6424.00†	50.359	172.559	5887.33	-370.96	-236.50	-1857.74	1661928.46	14333558.78	39°28'16.8188"N	80°55'25.5818"W	1872.74	262.745	9.05	7.45	-6.76	Middlesex: 6424' MD
6494.00	55.690	168.270	5929.43	-315.77	-291.59	-1848.37	1661937.83	14333503.72	39°28'16.2742"N	80°55'25.4628"W	1871.22	261.035	9.05	7.62	-6.13	
6541.00	59.190	165.180	5954.73	-276.35	-330.13	-1839.25	1661946.94	14333465.19	39°28'15.8933"N	80°55'25.3470"W	1868.64	259.824	9.28	7.45	-6.57	
6584.00†	62.583	163.139	5975.65	-238.83	-366.25	-1828.99	1661957.20	14333429.08	39°28'15.5361"N	80°55'25.2166"W	1865.30	258.676	8.91	7.89	-4.75	Burkett: 6584' MD
6589.00	62.980	162.910	5977.94	-234.39	-370.51	-1827.69	1661958.50	14333424.83	39°28'15.4941"N	80°55'25.2000"W	1864.87	258.540	8.91	7.93	-4.58	
6633.00†	66.443	161.419	5996.73	-194.62	-408.37	-1815.50	1661970.68	14333386.98	39°28'15.1198"N	80°55'25.0450"W	1860.86	257.323	8.45	7.87	-3.39	Tully: 6633' MD
6636.00	66.680	161.320	5997.92	-191.86	-410.98	-1814.62	1661971.56	14333384.38	39°28'15.0940"N	80°55'25.0338"W	1860.58	257.239	8.45	7.89	-3.29	
6682.00	70.780	161.100	6014.61	-149.01	-451.55	-1800.82	1661985.36	14333343.82	39°28'14.6929"N	80°55'24.8582"W	1856.57	255.923	8.92	8.91	-0.48	Marcellus POE: 6682' MD
6777.00	79.290	163.440	6039.12	-57.33	-538.89	-1772.93	1662013.24	14333256.51	39°28'13.8294"N	80°55'24.5036"W	1853.02	253.093	9.27	8.96	2.46	
6871.00	86.300	164.730	6050.90	35.76	-628.52	-1747.38	1662038.78	14333166.92	39°28'12.9433"N	80°55'24.1788"W	1856.98	250.217	7.58	7.46	1.37	
6918.00	89.200	166.110	6052.75	82.59	-673.97	-1735.56	1662050.59	14333121.49	39°28'12.4941"N	80°55'24.0286"W	1861.83	248.777	6.83	6.17	2.94	
6965.00	89.480	164.700	6053.29	129.47	-719.45	-1723.72	1662062.43	14333076.03	39°28'12.0445"N	80°55'23.8781"W	1867.84	247.345	3.06	0.60	-3.00	
7059.00	89.600	163.800	6054.04	223.34	-809.91	-1698.21	1662087.93	14332985.80	39°28'11.1502"N	80°55'23.5537"W	1881.45	244.502	0.97	0.13	-0.96	
7153.00	89.510	165.150	6054.77	317.19	-900.48	-1673.05	1662113.08	14332895.07	39°28'10.2549"N	80°55'23.2339"W	1899.99	241.710	1.44	-0.10	1.44	
7247.00	89.660	166.110	6055.45	410.93	-991.53	-1649.72	1662136.40	14332804.05	39°28'9.3547"N	80°55'22.9374"W	1924.76	238.993	1.03	0.16	1.02	
7342.00	89.630	164.670	6056.04	505.68	-1083.46	-1625.76	1662160.35	14332712.16	39°28'8.4460"N	80°55'22.6329"W	1953.71	236.319	1.52	-0.03	-1.52	
7435.00	89.720	162.770	6056.57	598.59	-1172.72	-1599.69	1662186.41	14332622.94	39°28'7.5635"N	80°55'22.3014"W	1983.50	233.755	2.05	0.10	-2.04	
7529.00	89.830	159.000	6057.10	692.57	-1261.52	-1568.91	1662217.17	14332534.17	39°28'6.6856"N	80°55'21.9100"W	2013.19	231.198	4.01	-0.10	-4.01	

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Actual Wellpath Report

Galt Unit 1H AWP Proj: 15589'
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REFERENCE WELLPATH IDENTIFICATION				
Operator	ANTERO RESOURCES CORPORATION		Well	Galt Unit 1H
Field	Tyler		API	47-095-02561-0000
Facility	Ferrell South Pad		Wellbore	Galt Unit 1H AWB
Slot	Slot #01			

WELLPATH DATA (177 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)	Comments
7623.00	89.660	159.270	6057.68	786.50	-1349.36	-1535.43	1662250.64	14332446.37	39°28'5.8172"N	80°55'21.4841"W	2044.09	226.691	0.29	0.03	0.29	
7717.00	89.540	160.410	6058.34	830.47	-1437.59	-1503.04	1662283.02	14332358.17	39°28'4.9449"N	80°55'21.0720"W	2079.86	226.275	1.22	-0.13	1.21	
7811.00	89.970	161.920	6058.74	974.46	-1526.56	-1472.69	1662313.36	14332269.24	39°28'4.0654"N	80°55'20.6860"W	2121.13	223.971	1.67	0.46	1.61	
7905.00	89.480	161.720	6059.19	1068.46	-1615.86	-1443.37	1662342.67	14332179.97	39°28'3.1825"N	80°55'20.3130"W	2166.64	221.773	0.56	-0.52	-0.21	
7999.00	89.780	161.070	6059.80	1162.46	-1704.95	-1413.38	1662372.65	14332090.92	39°28'2.3017"N	80°55'19.9316"W	2214.61	219.658	0.76	0.32	-0.69	
8093.00	89.820	160.110	6060.13	1256.45	-1793.60	-1382.14	1662403.87	14332002.30	39°28'1.4253"N	80°55'19.5343"W	2264.36	217.618	1.02	0.04	-1.02	
8187.00	89.600	156.030	6060.61	1350.27	-1880.78	-1347.04	1662438.96	14331915.16	39°28'0.5633"N	80°55'19.0877"W	2313.41	215.611	4.35	-0.23	-4.34	
8281.00	89.630	152.420	6061.24	1443.54	-1965.41	-1306.17	1662479.81	14331830.56	39°27'59.7265"N	80°55'18.5676"W	2359.86	213.607	3.84	0.03	-3.84	
8374.00	89.570	152.680	6061.89	1535.45	-2047.94	-1263.30	1662522.66	14331748.07	39°27'58.9105"N	80°55'18.0219"W	2406.24	211.669	0.29	-0.06	0.28	
8468.00	89.420	155.760	6062.72	1628.71	-2132.57	-1222.43	1662563.52	14331663.47	39°27'58.0737"N	80°55'17.5016"W	2458.09	209.822	3.28	-0.16	3.28	
8561.00	89.570	157.880	6063.53	1721.42	-2218.06	-1185.82	1662600.11	14331578.02	39°27'57.2285"N	80°55'17.0358"W	2515.15	208.130	2.29	0.16	2.28	
8655.00	89.540	159.020	6064.26	1815.29	-2305.48	-1151.30	1662634.62	14331490.63	39°27'56.3642"N	80°55'16.5966"W	2576.96	206.536	1.21	-0.03	1.21	
8749.00	89.480	161.460	6065.07	1909.27	-2393.94	-1119.52	1662666.38	14331402.21	39°27'55.4897"N	80°55'16.1924"W	2642.78	205.063	2.60	-0.06	2.60	
8844.00	89.510	164.210	6065.91	2004.22	-2484.69	-1091.49	1662694.41	14331311.49	39°27'54.5924"N	80°55'15.8360"W	2713.86	203.715	2.89	0.03	2.89	
8938.00	89.420	164.670	6066.78	2098.08	-2575.24	-1066.27	1662719.61	14331220.98	39°27'53.6973"N	80°55'15.5155"W	2787.26	202.492	0.50	-0.10	0.49	
9033.00	89.450	162.050	6067.72	2193.00	-2666.25	-1039.07	1662746.80	14331130.00	39°27'52.7975"N	80°55'15.1697"W	2861.57	201.292	2.76	0.03	-2.76	
9127.00	89.510	160.830	6068.57	2287.00	-2755.36	-1009.16	1662776.71	14331040.93	39°27'51.9166"N	80°55'14.7893"W	2934.35	200.115	1.30	0.06	-1.30	
9222.00	89.540	162.020	6069.36	2381.99	-2845.41	-978.90	1662806.95	14330950.92	39°27'51.0264"N	80°55'14.4045"W	3009.08	198.985	1.25	0.03	1.25	
9317.00	89.570	162.720	6070.10	2476.97	-2935.94	-950.12	1662835.71	14330860.43	39°27'50.1313"N	80°55'14.0386"W	3085.85	197.933	0.74	0.03	0.74	
9411.00	89.480	162.410	6070.88	2570.95	-3025.62	-921.96	1662863.87	14330770.78	39°27'49.2448"N	80°55'13.6805"W	3162.97	196.947	0.34	-0.10	-0.33	
9506.00	89.420	161.100	6071.79	2665.94	-3115.84	-892.22	1662893.59	14330680.60	39°27'48.3528"N	80°55'13.3024"W	3241.06	195.979	1.38	-0.06	-1.38	
9601.00	89.510	162.380	6072.68	2760.93	-3206.05	-862.46	1662923.35	14330590.43	39°27'47.4610"N	80°55'12.9239"W	3320.03	195.057	1.35	0.09	1.35	
9696.00	89.380	163.260	6073.60	2855.89	-3296.80	-834.40	1662951.39	14330499.71	39°27'46.5638"N	80°55'12.5672"W	3400.75	194.203	0.94	-0.14	0.93	
9790.00	89.630	163.810	6074.41	2949.82	-3386.94	-807.76	1662978.03	14330409.60	39°27'45.6726"N	80°55'12.2285"W	3481.93	193.414	0.64	0.27	0.59	
9885.00	89.690	163.890	6074.97	3044.72	-3478.19	-781.33	1663004.44	14330318.39	39°27'44.7705"N	80°55'11.8926"W	3564.87	192.661	0.11	0.06	0.08	
9979.00	89.630	162.390	6075.53	3138.67	-3568.15	-754.07	1663031.69	14330228.47	39°27'43.8812"N	80°55'11.5461"W	3646.96	191.933	1.60	-0.06	-1.60	
10075.00	89.540	161.290	6076.23	3234.66	-3659.36	-724.15	1663061.60	14330137.29	39°27'42.9795"N	80°55'11.1656"W	3730.33	191.194	1.15	-0.09	-1.15	
10169.00	89.350	160.420	6077.14	3328.66	-3748.16	-693.32	1663092.41	14330048.53	39°27'42.1016"N	80°55'10.7736"W	3811.74	190.480	0.95	-0.20	-0.93	
10265.00	89.510	161.590	6078.09	3424.65	-3838.93	-662.08	1663123.64	14329957.80	39°27'41.2042"N	80°55'10.3763"W	3895.60	189.785	1.23	0.17	1.22	
10360.00	89.450	161.310	6078.96	3519.64	-3928.99	-631.86	1663153.85	14329867.78	39°27'40.3139"N	80°55'9.9920"W	3979.47	189.136	0.30	-0.06	-0.29	

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 SEP 24 2010
 WVA Division of Environmental Protection



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Galt Unit 1H AWP Proj: 15589'
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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Galt Unit 1H
Field	Tyler	API	47-095-02561-0000
Facility	Ferrell South Pad	Wellbore	Galt Unit 1H AWB
Slot	Slot #01		

WELLPATH DATA (177 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)	Comments
10453.00	89.510	159.740	6079.80	3612.63	-4016.66	-600.85	1663184.84	14329780.14	39°27'39.4471"N	80°55'9.5977"W	4061.35	188.508	1.89	0.06	-1.69	
10548.00	89.450	158.620	6080.66	3707.56	-4105.45	-567.09	1663218.59	14329691.38	39°27'38.5692"N	80°55'9.1682"W	4144.43	187.865	1.18	-0.06	-1.18	
10642.00	89.480	158.150	6081.54	3801.43	-4192.84	-532.47	1663253.21	14329604.03	39°27'37.7052"N	80°55'8.7278"W	4226.51	187.237	0.50	0.03	-0.50	
10735.00	89.510	156.360	6082.36	3894.19	-4278.60	-496.51	1663289.14	14329518.31	39°27'36.8573"N	80°55'8.2704"W	4307.31	186.619	1.92	0.03	-1.92	
10829.00	89.600	157.980	6083.09	3987.93	-4365.23	-460.04	1663325.60	14329431.71	39°27'36.0008"N	80°55'7.8064"W	4389.40	186.016	1.73	0.10	1.72	
10922.00	89.630	160.480	6083.71	4080.86	-4452.18	-427.07	1663358.56	14329344.80	39°27'35.1411"N	80°55'7.3870"W	4472.61	185.479	2.69	0.03	2.69	
11016.00	89.570	162.720	6084.37	4174.85	-4541.36	-397.40	1663388.22	14329255.65	39°27'34.2594"N	80°55'7.0098"W	4558.72	185.001	2.38	-0.06	2.38	
11110.00	89.540	162.480	6085.10	4268.83	-4631.06	-369.29	1663416.32	14329165.99	39°27'33.3727"N	80°55'6.6524"W	4645.76	184.559	0.26	-0.03	-0.26	
11204.00	89.600	162.350	6085.81	4362.81	-4720.66	-340.89	1663444.70	14329076.42	39°27'32.4868"N	80°55'6.2914"W	4732.96	184.130	0.15	0.06	-0.14	
11298.00	89.570	161.400	6086.49	4456.80	-4810.00	-311.65	1663473.93	14328987.12	39°27'31.6036"N	80°55'5.9196"W	4820.08	183.707	1.01	-0.03	-1.01	
11392.00	89.420	161.670	6087.32	4550.79	-4899.15	-281.88	1663503.69	14328898.00	39°27'30.7222"N	80°55'5.5411"W	4907.25	183.293	0.33	-0.16	0.29	
11486.00	89.540	162.170	6088.17	4644.79	-4988.51	-252.71	1663532.85	14328808.68	39°27'29.8388"N	80°55'5.1702"W	4994.90	182.900	0.55	0.13	0.53	
11579.00	89.480	163.370	6088.96	4737.75	-5077.33	-225.16	1663560.39	14328719.90	39°27'28.9607"N	80°55'4.8201"W	5082.32	182.539	1.29	-0.06	1.29	
11673.00	89.600	163.120	6089.72	4831.69	-5167.33	-198.06	1663587.47	14328629.93	39°27'28.0709"N	80°55'4.4756"W	5171.13	182.195	0.30	0.13	-0.27	
11768.00	89.570	162.980	6090.41	4926.65	-5258.21	-170.37	1663615.16	14328539.09	39°27'27.1725"N	80°55'4.1236"W	5260.96	181.856	0.15	-0.03	-0.15	
11862.00	89.510	163.760	6091.16	5020.58	-5348.27	-143.47	1663642.05	14328449.06	39°27'26.2821"N	80°55'3.7817"W	5350.19	181.537	0.83	-0.06	0.83	
11956.00	89.660	164.590	6091.84	5114.46	-5438.70	-117.83	1663667.67	14328358.67	39°27'25.3881"N	80°55'3.4560"W	5439.98	181.241	0.90	0.16	0.88	
12050.00	89.630	165.090	6092.42	5208.29	-5529.43	-93.25	1663692.24	14328267.98	39°27'24.4912"N	80°55'3.1436"W	5530.22	180.966	0.53	-0.03	0.53	
12144.00	89.540	163.350	6093.11	5302.16	-5619.88	-67.69	1663717.79	14328177.56	39°27'23.5970"N	80°55'2.8188"W	5620.29	180.690	1.85	-0.10	-1.85	
12237.00	89.630	160.460	6093.78	5395.14	-5708.27	-38.81	1663746.66	14328089.21	39°27'22.7231"N	80°55'2.4516"W	5708.40	180.390	3.11	0.10	-3.11	
12331.00	89.630	157.660	6094.39	5489.06	-5796.05	-5.22	1663780.24	14328001.46	39°27'21.8552"N	80°55'2.0244"W	5796.06	180.052	2.98	0.00	-2.98	
12426.00	89.350	158.370	6095.23	5583.89	-5884.14	30.34	1663815.79	14327913.41	39°27'20.9843"N	80°55'1.5721"W	5884.22	179.705	0.80	-0.29	0.75	
12519.00	89.080	157.730	6096.51	5676.73	-5970.39	65.10	1663850.53	14327827.19	39°27'20.1315"N	80°55'1.1299"W	5970.75	179.375	0.75	-0.29	-0.69	
12612.00	89.140	156.890	6097.95	5769.49	-6056.18	100.97	1663886.39	14327741.44	39°27'19.2833"N	80°55'0.6737"W	6057.02	179.045	0.91	0.06	-0.90	
12707.00	89.050	156.070	6099.45	5864.14	-6143.28	138.88	1663924.28	14327654.38	39°27'18.4221"N	80°55'0.1914"W	6144.85	178.705	0.87	-0.09	-0.86	
12801.00	89.050	157.160	6101.01	5957.81	-6229.54	176.18	1663961.57	14327568.15	39°27'17.5692"N	80°54'59.7169"W	6232.03	178.380	1.16	0.00	1.16	
12894.00	89.140	157.800	6102.48	6050.59	-6315.44	211.80	1663997.17	14327482.28	39°27'16.7199"N	80°54'59.2639"W	6318.99	178.079	0.69	0.10	0.69	
12988.00	88.890	160.770	6104.09	6144.51	-6403.34	245.04	1664030.40	14327394.42	39°27'15.8509"N	80°54'58.8411"W	6408.03	177.809	3.17	-0.27	3.16	
13082.00	89.200	162.120	6105.66	6238.49	-6492.44	274.95	1664060.29	14327305.35	39°27'14.9700"N	80°54'58.4609"W	6498.26	177.575	1.47	0.33	1.44	
13176.00	89.110	162.040	6107.05	6332.47	-6581.87	303.87	1664089.20	14327215.96	39°27'14.0858"N	80°54'58.0933"W	6588.88	177.357	0.13	-0.10	-0.09	

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Galt Unit 1H AWP Proj: 15589'
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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Galt Unit 1H
Field	Tyler	API	47-095-02561-0000
Facility	Ferrell South Pad	Wellbore	Galt Unit 1H AWB
Slot	Slot #01		

WELLPATH DATA (177 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)	Comments
13270.00	89.170	162.870	6108.46	6426.44	-6671.49	332.20	1664117.52	14327126.38	39°27'13.1999"N	80°54'57.7332"W	6679.75	177.149	0.89	0.06	0.88	
13364.00	89.230	166.300	6109.77	6520.27	-6762.08	357.18	1664142.49	14327035.82	39°27'12.3042"N	80°54'57.4158"W	6771.51	176.976	3.65	0.06	3.65	
13457.00	89.200	166.420	6111.05	6612.90	-6852.45	379.11	1664164.41	14326945.49	39°27'11.4109"N	80°54'57.1373"W	6862.93	176.833	0.13	-0.03	0.13	
13551.00	89.200	164.860	6112.36	6706.62	-6943.50	402.42	1664187.71	14326854.47	39°27'10.5108"N	80°54'56.8412"W	6955.15	176.683	1.66	0.00	-1.66	
13645.00	89.080	163.610	6113.77	6800.49	-7033.95	427.95	1664213.24	14326764.06	39°27'9.6166"N	80°54'56.5168"W	7046.96	176.518	1.34	-0.13	-1.33	
13739.00	89.200	162.410	6115.18	6894.43	-7123.84	455.42	1664240.69	14326674.21	39°27'8.7279"N	80°54'56.1677"W	7138.38	176.342	1.28	0.13	-1.28	
13833.00	89.200	162.060	6116.49	6988.41	-7213.35	484.10	1664269.36	14326584.73	39°27'7.8430"N	80°54'55.8032"W	7229.57	176.161	0.37	0.00	-0.37	
13927.00	89.200	162.400	6117.80	7082.39	-7302.85	512.78	1664298.03	14326495.26	39°27'6.9581"N	80°54'55.4386"W	7320.84	175.983	0.36	0.00	0.36	
14020.00	89.080	161.230	6119.20	7175.38	-7391.20	541.80	1664327.04	14326406.96	39°27'6.0847"N	80°54'55.0697"W	7411.03	175.808	1.26	-0.13	-1.26	
14113.00	89.230	159.930	6120.57	7268.36	-7478.90	572.72	1664357.95	14326319.29	39°27'5.2177"N	80°54'54.6766"W	7500.79	175.621	1.41	0.16	-1.40	
14208.00	89.080	160.300	6121.97	7363.32	-7568.22	605.03	1664390.24	14326230.00	39°27'4.3345"N	80°54'54.2658"W	7592.37	175.429	0.42	-0.16	0.39	
14302.00	89.170	161.800	6123.41	7457.31	-7657.11	635.55	1664420.75	14326141.15	39°27'3.4557"N	80°54'53.8778"W	7683.44	175.255	1.60	0.10	1.60	
14395.00	89.200	162.770	6124.73	7550.29	-7745.69	663.84	1664449.04	14326052.60	39°27'2.5799"N	80°54'53.5182"W	7774.09	175.101	1.04	0.03	1.04	
14488.00	89.510	163.540	6125.78	7643.23	-7834.70	690.79	1664475.97	14325963.63	39°27'1.7000"N	80°54'53.1757"W	7865.09	174.961	0.89	0.33	0.83	
14582.00	89.570	164.300	6126.53	7737.13	-7925.02	716.83	1664502.00	14325873.35	39°27'0.8071"N	80°54'52.8449"W	7957.37	174.832	0.81	0.06	0.81	
14676.00	89.510	162.920	6127.29	7831.05	-8015.19	743.35	1664528.51	14325783.21	39°26'59.9156"N	80°54'52.5079"W	8049.59	174.701	1.47	-0.06	-1.47	
14769.00	89.350	161.640	6128.21	7924.03	-8103.77	771.65	1664556.80	14325694.67	39°26'59.0399"N	80°54'52.1482"W	8140.43	174.561	1.39	-0.17	-1.38	
14863.00	89.480	162.690	6129.17	8018.01	-8193.25	800.44	1664585.58	14325605.23	39°26'58.1553"N	80°54'51.7823"W	8232.26	174.420	1.13	0.14	1.12	
14957.00	89.380	163.260	6130.11	8111.97	-8283.13	827.96	1664613.09	14325515.39	39°26'57.2667"N	80°54'51.4325"W	8324.40	174.292	0.62	-0.11	0.61	
15051.00	89.380	161.980	6131.13	8205.94	-8372.83	856.04	1664641.15	14325425.72	39°26'56.3799"N	80°54'51.0757"W	8416.47	174.162	1.36	0.00	-1.36	
15145.00	89.450	161.050	6132.09	8299.93	-8461.97	885.84	1664670.94	14325336.61	39°26'55.4986"N	80°54'50.6969"W	8508.21	174.024	0.99	0.07	-0.99	
15239.00	89.540	160.330	6132.91	8393.92	-8550.68	916.92	1664702.01	14325247.94	39°26'54.6215"N	80°54'50.3018"W	8599.70	173.879	0.77	0.10	-0.77	
15333.00	89.510	158.860	6133.69	8487.87	-8638.77	949.69	1664734.77	14325159.88	39°26'53.7505"N	80°54'49.8851"W	8690.82	173.726	1.56	-0.03	-1.56	
15427.00	89.450	158.990	6134.55	8581.79	-8726.48	983.49	1664768.56	14325072.21	39°26'52.8833"N	80°54'49.4553"W	8781.73	173.570	0.15	-0.06	0.14	
15522.00	89.420	158.080	6135.48	8676.67	-8814.89	1018.26	1664803.30	14324983.84	39°26'52.0093"N	80°54'49.0133"W	8873.51	173.411	0.96	-0.03	-0.96	
15564.00	89.320	157.950	6135.94	8718.60	-8853.83	1033.98	1664819.02	14324944.91	39°26'51.6242"N	80°54'48.8133"W	8914.00	173.339	0.39	-0.24	-0.31	
15589.00†	89.320	157.950	6136.24	8743.55	-8877.00	1043.36	1664828.40	14324921.75	39°26'51.3951"N	80°54'48.6940"W	8938.11	173.296	0.00	0.00	0.00	Projected MD at TD: 15589'

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Actual Wellpath Report

Galt Unit 1H AWP Proj: 15589'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Galt Unit 1H
Field	Tyler	API	47-095-02561-0000
Facility	Ferrell South Pad	Wellbore	Galt Unit 1H AWB
Slot	Slot #01		

HOLE & CASING SECTIONS - Ref Wellbore: Galt Unit 1H AWB Ref Wellpath: Galt Unit 1H AWP Proj: 15589'

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
20in Conductor	30.00	95.00	65.00	30.00	95.00	0.00	0.00	-0.06	-0.03
17.5in Open Hole	95.00	403.00	308.00	95.00	402.99	-0.06	-0.03	-0.29	-1.58
13.375in Casing Surface	30.00	403.00	373.00	30.00	402.99	0.00	0.00	-0.29	-1.58
12.25in Open Hole	403.00	2640.00	2237.00	402.99	2589.13	-0.29	-1.58	-25.97	-286.60
9.625in Casing Intermediate	30.00	2640.00	2610.00	30.00	2589.13	0.00	0.00	-25.97	-286.60
8.75in Open Hole	2640.00	5837.00	3197.00	2589.13	5405.14	-25.97	-286.60	65.32	-1779.87
8.5in Open Hole	5837.00	15589.00	9752.00	5405.14	6136.24	65.32	-1779.87	-8877.00	1043.36
5.5in Casing Production	30.00	15589.00	15559.00	30.00	6136.24	0.00	0.00	-8877.00	1043.36

TARGETS

Name	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Galt Unit 1H - POE - Rev-2	6016.00	-444.04	-1810.73	1661975.45	14333351.33	39°28'14.7672"N	80°55'24.9846"W	point
Galt Unit 1H - BHL - Rev-2	6054.00	-8903.94	1049.04	1664834.08	14324894.82	39°26'51.1289"N	80°54'48.6219"W	point
Galt Unit 1H - LP - Rev-2	6054.00	-656.70	-1738.84	1662047.31	14333138.75	39°28'12.6647"N	80°55'24.0702"W	point

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Actual Wellpath Report

Galt Unit 1H AWP Proj: 15589'

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REFERENCE WELLPATH IDENTIFICATION			
Operator	ANTERO RESOURCES CORPORATION	Well	Galt Unit 1H
Field	Tyler	API	47-095-02561-0000
Facility	Ferrell South Pad	Wellbore	Galt Unit 1H AWB
Slot	Slot #01		

WELLPATH COMPOSITION - Ref Wellbore: Galt Unit 1H AWB Ref Wellpath: Galt Unit 1H AWP Proj: 15589'					
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore	Survey Date
30.00	372.00	Gyrodatta 2015 - GC+WIR+DPIPE	01 Gyrodatta MS Gyro <17-1/2">(115'-372')	Galt Unit 1H AWB	
372.00	2549.00	OWSG MWD rev2 + HRGM	02 Panther EM <12-1/4">(372')(426'-2549')	Galt Unit 1H AWB	
2549.00	5744.00	OWSG MWD rev2 + HRGM	03 Panther EM <8-3/4">(2549')(2652'-5744')	Galt Unit 1H AWB	
5744.00	15589.00	BH AutoTrak Curve (2019) (Short spacing)	04 BH AT Curve <8-1/2">(5744')(5801'-15564')	Galt Unit 1H AWB	11/19/2019

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Actual Wellpath Report

Galt Unit 1H AWP Proj: 15589'

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REFERENCE WELLPATH IDENTIFICATION

Operator	ANTERO RESOURCES CORPORATION	Well	Galt Unit 1H
Field	Tyler	API	47-095-02561-0000
Facility	Ferrell South Pad	Wellbore	Galt Unit 1H AWB
Slot	Slot #01		

COMMENTS

Wellpath general comments

API: 47-095-02561-0000

BHI Job #: 110140854A

Rig: H&P 519

Duration: 11/20/2019-11/22/2019

Gyrodata MS Gyro <17-1/2">(115'-372')

Panther EM <12-1/4">(372')(426'-2549')

Panther EM <8-3/4">(2549')(2652'-5744')

BH AT Curve <8-1/2">(5744')(5801'-15564')

Middlesex: 6424' MD

Burkett: 6584' MD

Tully: 6633' MD

Marcellus POE: 6682' MD

Projected MD at TD: 15589'

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