



Actual Wellpath Report Brian Dytko OHI 5H ST01 AWP Proj: 15405'MD Page 1 of 10



REFERE	REFERENCE WELLPATH IDENTIFICATION		
Operator	SOUTHWESTERN ENERGY	Slot	Slot 5H
Area	Ohio County, WV	Well	Brian Dytko OHI 5H ST01
Field	Ohio	Wellbore	Brian Dytko OHI 5H ST01 AWB
Facility	Brian Dytko OHI Pad	Sidetrack from	Sidetrack from Brian Dytko OHI 5H AWP Proj: 15456'MD at 5281.00 MD

REPORT SETU	REPORT SETUP INFORMATION		
Projection System	rojection System NAD83 / UTM Zone 17 North, US feet	Software System WellArchitect® 5.0	WellArchitect® 5.0
North Reference	Grid	User	Thomsuzc
Scale	0.999614	Report Generated	Report Generated 6/25/2018 at 8:42:58 AM
Convergence at slot 0.26° East	t 0.26° East	Database/Source file	Database/Source file WA_Pennsylvania/Brian_Dytko_OHI_5H_ST01_AWP_Proj15405_MD.xml

WELLPATH LOCATION						
	Local coordinates	rdinates	Grid co	Grid coordinates	Geographic coordinates	coordinates
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	24.93	7.23	1750188.40	14537918.27	40°01'48.187"N	80°36'28.289"W
Facility Reference Pt			1750181.17	14537893.35	40°01'47.941"N	80°36'28.383"W
Field Reference Pt			0.00	0.00	0.00.00.00.0	85°29'19.478"W

WELLPATH DATUM			
Calculation method	Minimum curvature	SDC 42 (KB) to Facility Vertical Datum	1248.40ft
Horizontal Reference Pt	Slot	SDC 42 (KB) to Mean Sea Level	1248.40ft
Vertical Reference Pt	SDC 42 (KB)	SDC 42 (KB) to Ground Level at Slot (Slot 5H)	26.00ft
MD Reference Pt	SDC 42 (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	328.06°





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REFERE	REFERENCE WELLPATH IDENTIFICATION	ELLPAT	TH IDEN	VTIFICA	TION										
Operator	SOUTH	WESTER	SOUTHWESTERN ENERGY	37				Slot		Slot 5H					
Area	Ohio Cc	Ohio County, WV	>					Well		Brian Dytko OHI 5H ST01	ST01				
Field	Ohio							We	Wellbore B	Brian Dytko OHI 5H ST01 AWB	ST01 AWB				
Facility	Brian D	Brian Dytko OHI Pad	Pad					Sid	Sidetrack from Bi	Brian Dytko OHI 5H AWP Proj: 15456'MD at 5281.00 MD	AWP Proj:	5456'MD a	t 5281.00	0 MD	
WELLP	WELLPATH DATA (191	FA (191	stations		interpo	lated/ex	+ = interpolated/extrapolated st	d station							
OM E	Inclination Azimuth	Azimuth	O 표	Se	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir	DLS [°/100ft]	Build Rate	Turn Rate
0.00	0.000	100.530	0.00	0.00	0.00	00.0	1750188.40	14537918.27	40°01'48.187"	N 80°36'28.289"W	00.00	0000	00.00	00.00	0.00
26.00	0.000	100.530	26.00	00.00	0.00	0.00		14537918.27	40°01'48.187"N			000'0	00.00	00.0	0.00
100.00	0.290	100.530	100.00	-0.13	-0.03	0.18		14537918.24	40°01'48.187"N			100.530	0.39	0.39	135.85
200.00	0.110	33.410	200.00	-0.26	0.00	0.49		14537918.27	40°01'48.187"N	4		90.040	0.27	-0.18	-67.12
300.00	0.240	205.270	300.00	-0.33	-0.11	0.45		14537918.16	40°01'48.186"N	8		103.712	0.35	0.13	171.86
400.00	0.120	325.140	400.00	-0.34	-0.21	0.30		14537918.06	40°01'48.185"N			125.387	0.32	-0.12	119.87
500.00	0.140	327.510	200.00	-0.11	-0.02	0.17	1750188.57	14537918.25	40°01'48.187"N			97.864	0.02	0.02	2.37
00.009	0.400		00.009	60.0	-0.03	-0.22		14537918.24	40°01'48.187"N			261.714	0.39	0.26	-76.10
680.00	0.280	315,230	680.00	0.35	0.02	-0.62	1750187.78	14537918.29	40°01'48.187"N			271.599	0.47	-0.15	79.78
724.00	1.470	107.050	723.99	0.02	-0.07	-0.16	1750188.24	14537918.20	40°01'48.187"N			245.910	3.91	2.70	345.05
765.00	2.610		764.97	-1.12	-0.57	1.21	1750189.61	14537917.70	40°01'48.182"N	'N 80°36'28.273"W	1.34	115.083	2.80	2.78	10.68
805.00	4.380	112,550	804.89	-3.10	-1.49	3.47	1750191.87	14537916.78	40°01'48.172"N	'N 80°36'28.244"W		113.177	4.43	4.42	2.80
835.00	4.860		834.79	-5.05	-2.39	5.71	1750194.11	14537915.88	40°01'48.163"N				1.63	1.60	-3.87
877.00	4.990	115.600	876.64	-8.02	-3.83	9.02	1750197.41	14537914.44	40°01'48.149"N			112.999	0.91	0.31	10.02
919.00	4.610	120,180	918.49	-11.05	-5.46	12.12	- T	14537912.81	40°01'48.133"N			114.266	1.28	-0.90	10.90
961.00	4.440		960.36	-13.97		15.00	1750203.39	14537911.16	40°01'48.116"N	Ü	16.60	115.362	0.43	-0.40	-2.00
1002.00	4.280	119.900	1001.24	-16.71	-8.65	17.71	1750206.10	14537909.62	40°01'48.101"N	'N 80°36'28.062"W	19.71	116.034	0.40	-0.39	1.37
1044.00	3.970	122.930	1043.13	-19.41	-10.22	20.29	1750208.68	14537908.05	40°01'48.085"N		22.72	116.741	0.90	-0.74	7.21
1086.00	3,640	120.910	1085.04		-11.70	22.65	1750211.04	14537906.58	40°01'48.071"N			117.311	0.85	-0.79	-4.81
1128.00	3.430	121.110	1126.96	-24.21		24.87	3	14537905.24	40°01'48.057"N				0.50	-0.50	0.48
1211.00	2.790	116.970	1209.84	-28.16	-15.23	28.80		14537903.05	40°01'48.035"N				0.82	-0.77	-4.99
1295.00	2.310	121.580	1293.75	100	-17.04	32.06		14537901.23	40°01'48.017"N			117.995	0.62	-0.57	5.49
1378.00	1.780	120.350	1376.70	_		34.60		14537899.71	40°01'48.002"N			118.225	0.64	-0.64	-1.48
1460.00	1.410	125,600	1458.67			36.52		14537898.48	40°01'47.990"N			118.469	0.48	-0.45	6.40
1544.00	1.030	126,650	1542.65	-37.78	-20.85	37.96	1750226.35	14537897.42	40°01'47.980'		43.31	118.780	0.45	-0.45	1.25
1628.00	0.730	124.690	1626.64	_	-21.61	39.01	1750227.39	14537896.67	40°01'47.972"N	_		118.984	0.36	-0.36	-2-33
1710.00	0.640	123.830				39.82		14537896.12		80°36'27		119.098	0.11	-0.11	-135
1795.00	0.530		1793.63	-40.67	-22.66	40.53		14537895.62	40°01'47.962"N	80°36'27		119.214	0.14	-0.13	3.81
1876.00	0.490	130.290	1874.63	-41.35	-23.11	41.09		14537895.17	40°01'47.957"N			119.357	90.0	-0.05	3-98
1961.00	0.520	123,200	1000	-42,05	-23.56	41.69	1750230.07	14537894.72	40°01'47.953"N	'N 80°36'27.754"W	47.89	119.470	0.08	0.04	28-



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REFERENCE WELLPATH IDENTIFICATION	ENCE W	ELLPA	TH IDE	NTIFIC	ATION	,									
Operator	SOUTH	WESTER	SOUTHWESTERN ENERGY	37				Slot		Slot 5H					
Area	Ohio Co	Ohio County, WV	^					Well		Brian Dytko OHI 5H ST01	ST01		9		
Field	Ohio							We	Wellbore Bri	Brian Dytko OHI 5H ST01 AWB	ST01 AWB				
Facility	Brian D	Brian Dytko OHI Pad	l Pad					Sid	Sidetrack from Bri	Brian Dytko OHI 5H AWP Proj: 15456'MD at 5281.00 MD	AWP Proj:	15456'MD at	1 5281.0	0 MD	
WELLPATH DATA (191	TH DA	TA (19	1 stations	ns)											
QWD	Inclination Azimuth	Azimuth	VZ €	Vert Sect	North	East	Grid East IUS ft1	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir	DLS ["/100ft]	Build Rate	Turn Rate
1979.00	0.540	124.300	1977.62	20	-23.65	41.83	1750230.21	14537894.63	40°01'47.952"N	Ц		119.485	0.12	0.11	6.11
2033.00	0.470	116.870	2031.62	_	-	42.24	1750230.62	14537894.38	40°01'47.949"N				0.18	-0.13	-13.76
2117.00	0.810			-	-	42.09		14537894.61	40°01'47.952"N	80°36'27			1.51	0.40	-198.20
2200.00	2.530		2198.58	-40.17	-22.37	40.06	1750228.44	14537895.91	40°01'47.964"N	1			2.10	2.07	-12.54
2284.00	2.360	296.990	2282.50	-37.06	-20.66	36.91		14537897.62	40°01'47.981"N	80°36'27			0.25	-0.20	-3.55
2366.00	2.250	295.610	2364.44	-34.25	-19.20	33.95	1750222.34	14537899.08	40°01'47.996"N		39.01	119.483	0.15	-0.13	-1.68
2450.00	1.810	283.500	2448.38	-31.92	-18.17	31.18	1750219.57	14537900.10	40°01'48.006"N			120.240	0.73	-0.52	-14.42
2533.00	1.110		2531.36		-17.80	29.10	1750217.49	14537900.47	40°01'48.010"N			121.458	0.88	-0.84	-10.71
2617.00	1.070			_	-17.83	27.51	1750215.90	14537900.45	40°01'48.010"N			122.946	0.26	-0.05	-13.37
2699.00	0.550		2697.33	-29.17	-17.94	26.36	1750214.75	14537900.34	40°01'48.009"N			124.243	0.64	-0.63	3.77
2780.00	0.350			_	-17.93	25.73	1750214.12	14537900.35	40°01'48.009"N	N 80°36'27.959"W	31.36	124.875	0.27	-0.25	14.77
2864.00	0.890		2862.33	-28.09	-17.24	25.44	1750213.83	14537901.04	40°01'48.016"N	4 80°36'27.963"W	30.73	124.128	1.06	0.64	93.50
2946.00	0.910	354.630	2944.32	-26.95	-15.96	25.34	1750213.73	14537902.32	40°01'48.028"N			122.195	0.05	0.02	-2.85
3029.00	0.980			-25.71		25.18		14537903.68	40°01'48.042"N				0.10	0.08	-3.52
3112.00	1,150	349.420	100	-24.28	-13.08	24.92	1750213.31	14537905.20					0.21	0.20	-2.76
3195.00	0.890		3193.28	-22.86	-11.72	24.42	1750212.81	14537906.56	40°01'48.070"N	V 80°36'27.976"W		115.635	0.57	-0.31	-27.12
3277.00	0.820	312.640	3275.27	-21.66	-10.79	23.64	1750212.03	14537907.49				114.527	0.27	60.0-	-17.40
3362.00	0.350	333.590	3360.26	-20.81	-10.14	23.08		14537908.13	40°01'48.086"N	80°36'27		113.726	09.0	-0.55	24.65
3445.00	0.600	94.940	3443.26	-20.82	-9.95	23.40	1750211.79	14537908.32	40°01'48.088"N	80°36'27		113.044	1.01	0.30	146.20
3529.00	0.330	97.490	3527.26	-21.24	-10.02	24.07	1907	14537908.25	40°01'48.087"N	80°36'27		112.601	0.32	-0.32	3.04
3611.00	0.640	99.710	3609.26	-21.69	-10.13	24.76		14537908.14	40°01'48.086"N			112.251	0.38	0.38	2.71
3694.00	0.460	82.700	3692.25	-22.14	-10.17	25.55		14537908.11					0.29	-0.22	-20.49
3779.00	0.650	91,460	3777.25	-22.55	-10.13	26.37	1750214.76	14537908.14					0.24	0.22	10.31
3861.00	0.520	43.000	3859.24	-22.71	-9.87	27.09	1750215.48	14537908.40			28.83	110.029	09.0	-0.16	-59.10
3945.00	0.740	356.990	3943.24	-22.13	-9.05	27.32	1750215.71	14537909.22	ì				0.63	0.26	-54.77
4027.00	0.690		14.780 4025.23	-21.33	-8.05		1750215.81	14537910.23				106.359	0.28	-0.06	2,000
4111.00	0.170	310.450	4109.23	-20.87	-7.48	27.45		14537910.80	40°01'48.112"N	80°36'27		105.238	0.76	-0.62	-76-38
4194.00	0.500	334.040	4192.23	-20.77	-7.61	27.06	1750215.45	14537910.66	40°01'48.111"N			105.707	0.59	0.40	-9 % 6
4277.00	0.610	252.220	4275.23	-20.69	-7.96	26.35		14537910.32					0.25	0.13	24.90
4360.00	0,680	0.680 235.940 4358.22	4358.22	-20.60	-8.37	25.52	1750213.91	14537909.90	40°01'48.103"N	N 80°36'27.961"W	26.86	108.155	0.24	0.08	-1981-



Actual Wellpath Report Brian Dytko OHI 5H ST01 AWP Proj: 15405'MD



REFERENCE WELLPATH IDENTIFICATION	NCE W	ELLPAT	TH IDE	NTIFIC,	ATION										
Operator	SOUTH	SOUTHWESTERN ENERGY	N ENER	βY				Slot		Slot 5H					
Area	Ohio Cc	Ohio County, WV	>					Wel		Brian Dytko OHI 5H ST01	ST01				
Field	Ohio							We	Wellbore Bria	Brian Dytko OHI 5H ST01 AWB	ST01 AWB				
Facility	Brian D	Brian Dytko OHI Pad	Pad					Sid	Sidetrack from Bria	Brian Dytko OHI 5H AWP Proj: 15456'MD at 5281.00 MD	AWP Proj: 1	5456'MD a	t 5281.0	O MD	
WELLPATH DATA (191 stations	TH DA	TA (191	statio	us)						4				- 4	
M E	Inclination Azimuth	Azimuth [*]	OVE E	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitudo	Longitude	Closure Dist (ft)	Closure Dir	P/100ft]	Build Rate	Turn Rate [°/100ft]
4443.00	1.000	227.060	4441.21	-20.76	-9.14	24.58	1750212.97	14537909.14	40°01'48.096"N			110.392	0.42	0.39	-10.70
4525.00	0.890	213.110	4523.20	-21.16	-10.16	23.71	1750212.10	14537908.11	40°01'48.086"N			113.193	0.31	-0.13	-17.01
4609.00	1.030	202.810	4607.19	-21.87		23.06	- 2	14537906.87	40°01'48.074"N			116.307	0.26	0.17	-12.26
4693.00	1.090	188.220	4691.17	-22.92	-12.89	22.65	1750211.05	14537905.39	40°01'48.059"N				0.33	0.07	-17.37
4778.00	0.890	210.820	4776.16	-23.84	-14.26	22.20	1750210.59	14537904.02	40°01'48.045"N	8			0.51	-0.24	26,59
4862.00	0.980	206.400	4860.15	-24.52	-15.46	21.55	1750209.94	14537902.82	40°01'48.034"N			125.657	0.14	0.11	-5.26
4946.00	0.310	267.200	4944.15	-24.78	-16.11	21.00	1750209.39	14537902.16	40°01'48.027"N			127.498	1.04	-0.80	72.38
5030.00	0.490	323.120	5028.14	-24.31	-15.84	20.56	1750208.95	14537902.44	40°01'48.030"N			127.609	0.48	0.21	66.57
5114.00	0.500	316,930	5112.14		-15.28	20.09	1750208.48	14537902.99					90.0	0.01	-7.37
5197.00	0.450	327.030	5195.14	-22.92	-14.74	19.67	1750208.06	14537903.53	10		24.58	126.857	0.12	90.0-	12.17
5281.00	0.360	309.760	5279.14	-22.34	-14.30	19.29	1750207.68	14537903.98	40°01'48.045"N	80°36'28.042"W		126.554	0.18	-0.11	-20.56
5379.00	5.000		5377.01	-18.57	-9.84	19.32	1750207.71	14537908.44	40°01'48.089"N			116.986	4.89	4.73	54.95
5469.00	4.800	7.030	5466.68	-12.45	-2.19	20.03	1750208.42	14537916.09	40°01'48.165"N		20.14	96.228	0.39	-0.22	3.80
5558.00	4.630	17,460	5555.38	-7.21	4.94	21.56		14537923.20				77.102	0.98	-0.19	11.72
5646.00	4.350	17,160	5643.11	-2.72	11.51	23.61	1750212.00	14537929.78					0.32	-0.32	-0.34
5733.00	4.840	12,930	5729.83	2.04	18.24	25.40	1750213.79	14537936.51	40°01'48.366"N			54.317	0.68	0.56	-4.86
5820.00	6.400	28.140	5816.41	7.06	26.10	28.51	1750216.90	14537944.36				47.532	2.46	1.79	17.48
5907.00	15,340	30.670	5901.76	14.79	40.30	36.69		14537958.55				42.312	10.29	10.28	2.91
5993.00	22.070	15.020	5983.23	31.09	65.73	46.69		14537983.98	40°01'48.835"N			35.388	9.70	7.83	-18.20
00.6209	28.130	6.620	60.1909	58.00	101.52	53.23		14538019.75	40°01'49.188"N	80°36'27.599"W		27.667	8.16	7.05	-9.77
6167.00	36.940	0.340	6135.23	29.96	148.68	55.78		14538066.89				20.565	10.71	10.01	-7.14
6253.00	44.810	358.110	6200.21	144.83	204.90	54.93		14538123.09					9.31	9.15	-2.59
6333.00	52.210	358.040	6253.17	196.68	264.75	52.92	1750241.30	14538182.92	1				9.25	9.25	-0.09
6416.00	60.140	359,470	6299.34	255.91	333.63	51.46	1750239.84	14538251.77	40°01'51.482"N	I 80°36'27.608"W	337.57	8.769	99.6	9.55	1.72
6503.00	69.340	-	6336.44	321.23	412.16	23.95	1750242.33	14538330.27	40°01'52.258"N			7.458	11.57	10.57	5,20
6587.00	77.220	7.370	6360.60	384.87	492.13	61.96	1750250.33	14538410.21	40°01'53.048"N		496.01	7.175	10.14	9.38	Q 2
6670.00	85.160	11.360	6373.30	446.40	572.97	75.32	1750263.69	14538491.02	40°01'53.846"N		577.90	7.489	10.68	9.57	2
6754.00	90,280	9.080	6376.64	508.60	655.54	90.20		14538573.55	40°01'54.661"N				6.67	6.10	3 2-
6838.00	90.400		6376.14	574.49	738.99	99.52		14538656.97						0.14	-6.45
6923.00	90,250	356.550	356.550 6375.66	646.50	823.93	29.66	1750288.03	14538741.88	40°01'56.325"N	80°36'26.961"W	829.94	6.898	8.37	-0.18	94



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REFERE	REFERENCE WELLPATH IDENTIFICATION	ATH IDE	NTIFIC	ATION										
Operator	SOUTHWESTERN ENERGY	RN ENER	ίGΥ				Slot	Slot 5H	5H					
Area	Ohio County, WV	×					Well	Brian	Brian Dytko OHI 5H ST01	T01				
Field	Ohio						Wellbore		Brian Dytko OHI 5H ST01 AWB	T01 AWB				
Facility	Brian Dytko OHI Pad	-II Pad					Sidetr	Sidetrack from Briar	Brian Dytko OHI 5H AWP Proj: 15456'MD at 5281.00 MD	WP Proj: 1	5456'MD at 5	5281.00	MD	
WELLPA	WELLPATH DATA (191	1 stations	nus)											
MD II	Inclination Azimuth	QVT	Vert Sect	North	East	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist	Closure Dir	DLS F	Build Rate	Turn Rate
7005.00	90.220 355.220	63	719.02	905.72	.79	1750282.15	14538823.64	40°01'57.134"N	V 80°36'27.032"W	910.56	5.912	1.62	-0.04	-1.62
7087.00	90.150 351.640	6375.06	793.10	987.17	84.41	1750272.78	14538905.05	40°01'57.939"N	N 80°36'27.148"W	990.77	4.887	4.37	-0.09	-4.37
7173.00	90.340 346.070	6374.69	873.47	1071.51	67.79	1750256.17	14538989.36	40°01'58.773"N		1073.65	3.620	6.48	0.22	-6.48
7257.00	90.250 342.260	6374.26	954.16	1152.31	44.88	1750233.26	14539070.13	40°01'59.573"N	V 80°36'27.647"W	1153.18	2.230	4.54	-0.11	4.54
7342.00	90,310 338,500	338.500 6373.84	1037.18	1232.36	16.34	1750204.73	14539150.15	40°02'00.365"N	N 80°36'28.009"W	1232.46	092'0	4.42	0.07	-4.42
7426.00	90,280 335,230	335.230 6373.41	1120.18	1309.59	-16.66	1750171.75	14539227.35	40°02'01.130"N		1309.69	359.271	3.89	-0.04	-3.89
7511.00	90.220 329.260	6373.04	1204.92	1384.77	-56.22	1750132.20	14539302.51	40°02'01.874"N		1385.92	357.675	7.02	-0.07	-7.02
7595.00	90,250 324,360	6372.70	1288.87	1455.05	-102.19	1750086.25	14539372.75	40°02'02.571"N	1	1458.63		5.83	0.04	-5.83
7679.00		6372.31	1372.57	1522.33	-152.47	1750035.99	14539440.01	40°02'03.238"N			354.281	5.69	0.04	-2.69
7762.00	90.180 321.570	6371.97	1455.07	1587.59	-203.76	1749984.72	14539505.24	40°02'03.885"N	N 80°36'30.818"W	1600.61	352.686	0.65	-0.12	-0.64
7847.00	90,220 318,570	318.570 6371.68	1539.24	1652.76	-258.31	1749930.19	14539570.39	40°02'04.531"N	N 80°36'31.516"W	1672.82	351.117	3.53	0.05	-3.53
7929.00	90.220 318.410	6371.36	1620.10	1714.17	-312.65	1749875.87	14539631.77	40°02'05.140"N		1742.45	349.663	0.20	0.00	-0.20
8013.00	90.150 318.450	6371.09	1702.91	1777.01	-368.39	1749820.15	14539694.59	40°02'05.764"N	51	1814.79	348.288	0.10	-0.08	0.05
8096.00	90.220 320.170	6370.82	1784.94	1839.94	-422.50	1749766.06	14539757.50	40°02'06.388"N		1887.83	347.067	2.07	0.08	2.07
8181.00	90.180 323.640	6370.53	1869.44	1906.82	-474.94	1749713.65	14539824.35	40°02'07.051"N	98		346.014	4.08	-0.05	4.08
8264.00		325.220 6370.24	1952.27	1974.33	-523.22	1749665.39	14539891.84	40°02'07.721"N		2042.49	345.157	1.90	0.05	1.90
8346.00	91.020 325.960	325.960 6369.35	2034.18	2041.98	-569.55	1749619.07	14539959.46	40°02'08.391"N			344.415	1.33	0.98	0.90
8429.00	90.980 325.050	6367.90		2110.38	-616.55	1749572.09	14540027.83	40°02'09.069"N	-	2198.59		1.10	-0.05	-1.10
8515.00	90.980 324.030	6366.43	2202.91	2180.41	-666.43	1749522.23	14540097.84	40°02'09.763"N	-	2279.99		1.19	0.00	-1,19
8603.00	91.050 322.890	6364.87	2290.61	2251.10	-718.82	1749469.86	14540168.50	40°02'10.464"N	10			1.30	0.08	-1.30
8689.00	90.860 321.720	6363.44	2376.16	2319.14	-771.39	1749417.31	14540236.51	40°02'11.139"N			341.602	1.38	-0.22	-1.36
8772.00	90,980 320,970	6362.10	2458.58	2383.95	-823.23	1749365.49	14540301.30	40°02'11.782"N			340.949	0.91	0.14	-0.90
8855.00	90.920 319.710	6360.73	2540.82	2447.84	-876.20	1749312.54	14540365.16	40°02'12.415"N			340.305	1.52	-0.07	-1.52
8944.00	90.950 321.360 6359.28		2629.03	2516.54	-932.76	1749256.01	14540433.83	40°02'13.096"N		2683.84	339.663	1.85	0.03	1.85
9031.00	91,050 322,920		2715,55	2585.21	-986.14	1749202.64	14540502.48	40°02'13.777"N	N 80°36'40.821"W	2766.91	339.120	1.80	0.11	1.79
9120.00	91.080 323,480	323,480 6356.10	2804.22	2656.46	-1039.44	1749149.36	14540573.70	40°02'14.484"N	_	2852.59	338.630	0.63	0.03	Q 3
9205.00	90,950 325,700	6354.60	2889.04		-1088.68	1749100.14	14540642.94	40°02'15.170"N			338.228	2.62	-0.15	287
9290.00	90.890 326.770		2973.99			1749052.92		40°02'15.871"N			337.892	1.26	-0.07	973
9376.00	90.980 325.660	325.660 6351.83	3059.93	2867.84	-1183.74	1749005.12	14540785.00				337.571	1.29	0.10	67 7-
9464.00	91.350 326.770 6350.04 3147.86 2940.97	6350.04	3147.86	2940.97	-1232.66	1748956.22	14540858.10	40°02'17.304"N	N 80°36'43.970"W	3188.85	337.260	1.33	0.42	9 20



Actual Wellpath Report
Brian Dytko OHI 5H ST01 AWP Proj: 15405'MD



REFERENCE WELLPATH IDENTIFICATION	NCE W	ELLPA	TH IDE	NTIFIC	ATION										
Operator	SOUTH	SOUTHWESTERN ENERGY	RN ENER	iGY.				Slot	Slot 5H	5H					
Area	Ohio Co	Ohio County, WV	^					Well	Brian	Brian Dytko OHI 5H ST01	1T01				
Field	Ohio							Wellbore		Brian Dytko OHI 5H ST01 AWB	T01 AWB				
Facility	Brian D	Brian Dytko OHI Pad	Pad					Sidetr	Sidetrack from Briar	Brian Dytko OHI 5H AWP Proj: 15456'MD at 5281.00 MD	WP Proj: 1	5456'MD at	5281.00	O MD	
WELLPATH DATA (191	TH DA	TA (19	1 stations	nus)											
MD	Inclination Azimuth	Azimuth	OVE DVE	Vert Sect	North	East	Grid East IUS ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist	Closure Dir	DLS F'/100ft]	Build Rate	Turn Rate
9549.00	91.480	91.480 326.100	63	3232.80	3011,77	-1279.64	1748909.26	14540928.87	40°02'18.005"N	N 80°36'44.570"W		336.980	0.80	0.15	-0.79
9635.00	91.380	324.750	6345.79	3318,68	3082.56	-1328.43	1748860.49	14540999.63	40°02'18.707"N		3356.62	336.686	1.57	-0.12	-1.57
9721.00	91.350	323.850	6343.75	3404.47	3152.38	-1378.60	1748810.34	14541069.42	40°02'19.399"N	-			1.05	-0.03	-1.05
9810.00	91.350	322.850	6341.65	3493.15	3223.76	-1431.71	1748757.25	14541140.78	40°02'20.107"N		9	336,053	1.12	00.00	-1.12
9896.00	91.320	91.320 321.820	6339.65	3578.69	3291.82	-1484.24	1748704.73	14541208.81	40°02'20.782"N	N 80°36'47.185"W	3610.96	335.730	1.20	-0.03	-1.20
9984.00	90.580	90.580 318.300 6338.19	6338.19		3359.27	-1540.72	48	14541276.24	40°02'21.451"N				4.09	-0.84	4.00
10071.00	88,980	312.720	6338.52	3750.69	3421,31	-1601.66	1748587.36	14541338.25	40°02'22.066"N			334.914	6.67	-1.84	-6.41
10157.00	90.430	317,950		3834.55	3482.45	-1662.09	1748526.95	14541399.37	40°02'22.673"N	100			6.31	1.69	6.08
10242.00	90.740	321.800	6338.10	3918.66	3547.43	-1716.86	1748472.21	14541464.32	40°02'23.318"N	N 80°36'50.162"W	3941.05	11	4.54	0.36	4.53
10327.00	90.620	90.620 325.030 6337.09	6337.09	4003.36	3615.67	-1767.51	1748421.58	14541532.53	40°02'23.994"N	씥	4024.57	333.948	3.80	-0.14	3.80
10411.00	90.520	90.520 329.130 6336.25	6336.25	4087.33	3686.16	-1813.15	1748375.95	14541603.00	40°02'24.693"N	N 80°36'51.392"W	4107.95	333.808	4.88	-0.12	4.88
10497.00	90.680	330.740	6335.35	4173.27	3760.58	-1856.23	1748332.89	14541677.39	40°02'25.430"N	N 80°36'51.942"W	4193.75	333.729	1.88	0.19	1.87
10582.00	91,350	329,400	6333.84	4258.21	3834.23	-1898.63	1748290.51	14541751.02	40°02'26.160"N			333.656	1.76	0.79	-1.58
10668.00	91.290		6331.86	4344.18	3907.60	-1943.45	1748245.70	-54	40°02'26.887"N			333.556	1.91	-0.07	-1.91
10755.00	91,290		323.120 6329.90	4431.04	3979.21	-1992.78	1748196.40	-	40°02'27.596"N	9		333,398	5.33	0.00	-5.33
10841.00	91.350	315.690	6327.92	4515.98	4044.45	-2048.68	1748140.51	14541961.15	40°02'28.243"N		4533.73	333.136	8.64	0.07	-8.64
10926.00	91.170	315.950	315.950 6326.05	4599.02		-2107.91	1748081.31	7	40°02'28.848"N	_	Ì	332.822	0.37	-0.21	0.31
11014.00	91.600		316.110 6323.92	4685.06	4168,71	-2168.99			40°02'29.477"N			332.512	0.52	0.49	0.18
11103.00	91,880		6321.22		4234.33	-2229.04	1747960.23	14542150.95	40°02'30.128"N			332.237	3.22	0.31	3.20
11190.00	91.910	325.420	325.420 6318.34	-	4302.99	-2282.32	1747906.97	14542219.59	40°02'30.808"N			332.058	7.42	0.03	7.43
11278.00	92.090	330.010	6315.27	_		-2329.28	1747860.02	14542293.89	_			331.981	5.22	0.20	5.22
11365.00	92.030	329.850	329.850 6312.14		4452.56		1747816.48	14542369.10	_	9		331.946	0.20	-0.07	-0.18
11454.00	93.170	93.170 327.750 6308.10	6308.10		5122.68 4528.60		1747770.44		40°02'33.044"N	_		331.892	2.68	1.28	-2.36
11540.00	93.170	93.170 323.130 6303.34	6303.34	5208.43	4599.30	-2467.59	1747721.76	100	40°02'33.744"N			331.786	5.36	0.00	-5.37
11628.00	93.080	323,380	323,380 6298,55	5295.99	-	-2520.16	1747669.22	14542586.17	40°02'34.442"N	兽	5306.35	331.645	0.30	-0.10	0.28
11713.00	93.300	321.420	6293.82	5380.44	4736.95	-2571.94	1747617.46	14542653.38	40°02'35.109"N			331.500	2.32	0.26	Ö
11799.00	93.290	320.240	6288.87				1747563.25				Ü	331.334	1.37	-0.01	-937
11884.00	93.200	321.000	6284.06	5549.76	4869.10		1747509.43	_				331.171	0.90	-0.11	689
11969.00	91.750	322.290	6280.39	91.750 322.290 6280.39 5634.15 4935.69	4935.69		1747456.76		_	_ 1			2.28	-1.71	1, 52
12056.00	90.400	319.800	6278.76	90,400 319,800 6278,76 5720,47 5003,33	5003,33	-2787.39	1747402.09	14542919.66	40°02'37.751"N	N 80°37'03.845"W	5727.38	330.878	3.26	-1.55	92.



Actual Wellpath Report
Brian Dytko OHI 5H ST01 AWP Proj: 15405'MD
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			MD	Build Rate Turn Rate	I	-1.45 -1.36																												
			5281.00	DLS [*/100ft]	1.99	1	3.27	3.27	3.27 5.16 1.11	3.27 5.16 1.11 2.87	3.27 5.16 1.11 2.87 1.88	3.27 5.16 1.11 2.87 1.88 0.73	3.27 5.16 1.11 2.87 1.88 0.73	3.27 5.16 1.11 2.87 1.88 0.73 1.81	3.27 5.16 1.11 2.87 1.88 0.73 1.81 1.08	3.27 5.16 1.11 2.87 1.88 0.73 1.08 2.16 1.87	3.27 5.16 1.11 2.87 1.88 0.73 1.08 1.08 1.87 1.13	3.27 5.16 1.11 2.87 1.88 0.73 1.08 1.08 1.13 0.86	3.27 5.16 1.11 2.87 1.88 0.73 1.08 1.08 1.13 0.86 1.38	3.27 5.16 1.11 2.87 1.88 0.73 1.08 1.08 1.13 0.86 1.38 2.94	3.27 5.16 1.11 2.87 1.88 0.73 1.08 1.108 1.13 0.86 1.13 0.86 1.13 4.18	3.27 5.16 1.11 2.87 1.88 0.73 1.08 2.16 1.13 0.86 1.38 2.94 4.18 3.83	3.27 5.16 1.11 2.87 1.88 0.73 1.08 1.08 1.13 1.13 1.38 2.94 4.18 3.83 3.08	3.27 5.16 1.11 2.87 1.88 0.73 1.08 1.08 2.16 1.13 1.13 1.13 2.94 4.18 3.83 3.08 0.33	3.27 5.16 1.11 2.87 1.88 0.73 1.08 1.08 1.13 1.13 1.13 2.94 4.18 3.83 3.08 0.33	3.27 5.16 1.11 2.87 1.88 0.73 1.08 1.08 2.16 1.13 1.38 2.94 4.18 3.08 0.33 1.07	3.27 5.16 1.11 2.87 1.88 0.73 1.87 1.13 1.13 2.94 4.18 4.18 3.08 0.33 1.07 2.26 3.00	3.27 5.16 1.11 2.87 1.88 0.73 1.87 1.13 1.13 2.94 4.18 4.18 3.08 0.33 1.07 2.26 3.00 0.85	3.27 5.16 1.11 2.87 1.88 0.73 1.87 1.08 2.94 4.18 4.18 3.08 0.33 1.07 2.26 3.00 0.85 4.05	2.87 2.87 1.11 2.87 1.18 1.18 1.18 1.18 1.13 0.86 0.86 0.33 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.08	3.27 5.16 1.11 1.08 1.18 1.08 1.13 0.86 0.86 1.38 3.08 3.00 0.85 1.07 1.07 1.07 1.03 1.07 1.03 1.03 1.03 1.03 1.03 1.03 1.03 1.03	3.27 5.16 1.11 2.87 1.18 1.08 1.18 1.13 0.86 0.86 1.38 2.94 4.18 4.18 3.00 0.33 1.07 2.26 3.00 0.85 4.05 1.07	3.27 5.16 1.11 2.87 1.88 1.08 1.08 1.38 2.94 4.18 3.83 3.00 0.33 1.07 2.26 3.00 0.35 4.05 0.36 3.12	3.27 5.16 1.11 1.18 1.18 1.18 1.18 1.18 1.18 1
			5456'MD at	Closure Dist Closure Dir	220 708	220,700	330.551	330.551 330.452	330.551 330.551 330.390	330,700 330,551 330,452 330,390 330,320	330.551 330.551 330.390 330.320 330.320	330.551 330.551 330.330 330.320 330.223 330.214	330.700 330.551 330.390 330.320 330.223 330.114 330.003	330.700 330.551 330.390 330.320 330.223 330.114 330.003 329.891	330.700 330.551 330.390 330.320 330.223 330.114 330.003 329.891 329.891	330.700 330.551 330.390 330.323 330.223 330.114 330.003 329.891 329.762	330.700 330.551 330.350 330.320 330.223 330.003 330.003 329.891 329.638 329.638	330.708 330.551 330.350 330.320 330.223 330.114 330.003 329.891 329.628 329.638 329.638																
	101	FO1 AWB	NP Proj: 1	Closure Dist	5040 64	3010.04	5897.14	5897.14 5980.47	5897.14 5980.47 6066.14	5897.14 5980.47 6066.14 6150.72	5897.14 5897.14 5980.47 6066.14 6150.72 6236.00	5897.14 5897.14 5980.47 6066.14 6150.72 6236.00	5897.14 5897.14 5980.47 6066.14 6150.72 6236.00 6320.09 6406.17	5897.14 5897.14 5980.47 6066.14 6150.72 6236.00 6320.09 6406.17 6492.24	5897.14 5897.14 5980.47 6066.14 6150.72 6236.00 6320.09 6406.17 6492.24 6580.01	5897.14 5897.14 5980.47 6066.14 6150.72 6320.09 6406.17 6492.24 6580.01	5897.14 5897.14 5980.47 6066.14 6150.72 6320.09 6406.17 6492.24 6580.01 6665.81 6749.96	5897.14 5897.14 5980.47 6066.14 6150.72 6320.09 6406.17 6492.24 6580.01 6665.81 6649.26 6835.29	5897.14 5897.14 6066.14 6150.72 6320.09 6406.17 6492.24 6580.01 6665.81 6665.81 6635.29 6919.80	5897.14 5897.14 6066.14 6066.14 6150.72 6236.00 6320.09 6406.17 6492.24 6580.01 6665.81 665.81 665.81 6749.96 6835.29 6919.80	5897.14 5897.14 5980.47 6066.14 6150.72 6236.00 6320.09 6406.17 6492.24 6580.01 6665.81 6749.96 6835.29 6919.80	5897.14 5897.14 5980.47 6066.14 6150.72 6236.00 6320.09 6406.17 6492.24 6580.01 6665.81 6749.96 6835.29 6919.80 7007.56	5897.14 5897.14 5980.47 6066.14 6150.72 6236.00 6320.09 6406.17 6492.24 6580.01 6665.81 6749.96 6815.29 6919.80 7007.56 7180.51	5897.14 5897.14 5897.14 6066.14 6150.72 6236.00 6320.09 6406.17 6492.24 6580.01 6665.81 6749.96 6835.29 6919.80 7007.58 7180.51 7180.51	5897.14 5897.14 5897.14 6066.14 6150.72 6236.00 6320.09 6406.17 6492.24 6580.01 6665.81 6749.96 6835.29 6919.80 7007.56 7007.56	5897.14 5897.14 5897.14 6066.14 6150.72 6236.00 6320.09 6406.17 6492.24 6580.01 6665.81 6749.96 6835.29 6919.80 7007.56 7007.56 7180.51 7345.01 7345.01	5897.14 5897.14 5897.14 6066.14 6056.14 6492.24 6492.24 6492.24 6580.01 6665.81 6749.96 6835.29 6919.80 7007.56 7007.56 7345.01 7345.01	5897.14 5897.14 5897.14 6066.14 6150.72 6236.00 6320.09 6406.17 6492.24 6665.81 6665.81 6749.96 6835.29 6919.80 7007.56 7004.53 7180.51 7345.01 7345.01 7345.01 7345.01	5897.14 5897.14 5897.14 6066.14 6150.72 6236.00 6320.09 6406.17 6492.24 6665.81 6665.81 6665.81 6749.96 6919.80 7007.56 7094.53 7261.34 7345.01 7428.62 7594.96 7679.51	5897.14 5897.14 5897.14 6066.14 6150.72 6236.00 6320.09 6406.17 6492.24 6580.01 6665.81 6665.81 6749.96 6835.29 6919.80 7007.56 7261.34 7345.01 7428.62 7512.00 7594.96 7512.00	5897.14 5897.14 5897.14 6066.14 6150.72 6236.00 6320.09 6406.17 6492.24 6580.01 6665.81 6665.81 6749.96 6835.29 6919.80 7007.56 7345.01 7428.62 7594.96 7594.96 7594.96 7594.96 7679.51	5897.14 5897.14 5897.14 6066.14 6150.72 6236.00 6320.09 6406.17 6492.24 6580.01 6665.81 6749.96 6919.80 7094.53 7180.51 7261.34 7345.01 7261.34 7345.01 7594.96 77512.00 77512.00 77512.00 77512.00 77512.00 77512.00	5897.14 5897.14 5897.14 6066.14 6066.14 6406.17 6406.17 6406.17 6406.17 6406.17 6406.17 6665.81 6749.96 6919.80 7007.56 7180.51 7261.34 7345.01 7428.62 7594.96 7761.45 7679.96 8919.80 7761.34 7761.45 7679.96 7761.45	5897.14 5897.14 5897.14 6066.14 6066.14 6406.17 6406.17 6406.17 6406.17 6406.17 6406.17 6665.81 6749.96 6919.80 7007.56 7180.51 7261.34 7345.01 7594.96 7761.86 7761.86 7679.96 88095.70 7844.78
1	Brian Dytko OHI 5H ST01	Brian Dytko OHI 5H ST01 AWB	Brian Dytko OHI 5H AWP Proj: 15456'MD at 5281.00 MD	Longitude	80°37'04 555''A	00 37 04.333 VV	80°37'05.278"W	80°37'05.278"W 80°37'05.915"W	80°37'05.278"W 80°37'05.915"W 80°37'06.529"W	80°37'05.278"W 80°37'05.915"W 80°37'06.529"W 80°37'07.146"W	80°37'05.238"W 80°37'05.915"W 80°37'06.529"W 80°37'07.146"W	80°37'05.359'W 80°37'05.915"W 80°37'06.529"W 80°37'07.146"W 80°37'07.803"W	80°37'05.359'W 80°37'05.915"W 80°37'06.529"W 80°37'07.146"W 80°37'08.470"W 80°37'08.470"W	80°37'05.258"W 80°37'05.218"W 80°37'05.529"W 80°37'07.146"W 80°37'08.470"W 80°37'09.156"W	80°37'05.278"W 80°37'05.278"W 80°37'05.529"W 80°37'07.146"W 80°37'08.470"W 80°37'09.156"W 80°37'09.156"W	80°37'05.278"W 80°37'05.918"W 80°37'05.595"W 80°37'07.146"W 80°37'08.470"W 80°37'09.156"W 80°37'09.847"W 80°37'10.574"W	80°37'05.258"W 80°37'05.218"W 80°37'05.515"W 80°37'07.146"W 80°37'08.470"W 80°37'09.156"W 80°37'09.847"W 80°37'11.286"W	80°37'05.258"W 80°37'05.918"W 80°37'05.918"W 80°37'07.146"W 80°37'08.470"W 80°37'09.156"W 80°37'09.847"W 80°37'11.286"W 80°37'11.286"W	80°37'05.35'W 80°37'05.918'W 80°37'05.918'W 80°37'07.146'W 80°37'07.146'W 80°37'09.156''W 80°37'09.156''W 80°37'11.286''W 80°37'11.286''W 80°37'12.635''W	80°37'05.35"W 80°37'05.918"W 80°37'05.918"W 80°37'07.146"W 80°37'07.146"W 80°37'09.156"W 80°37'09.156"W 80°37'11.286"W 80°37'11.286"W 80°37'12.635"W 80°37'13.285"W	80°37'05.278"W 80°37'05.918"W 80°37'05.918"W 80°37'07.146"W 80°37'07.146"W 80°37'09.156"W 80°37'09.156"W 80°37'10.574"W 80°37'11.286"W 80°37'12.635"W 80°37'13.285"W 80°37'13.285"W	80°37'05.53"W 80°37'05.915"W 80°37'07.146"W 80°37'07.146"W 80°37'09.156"W 80°37'10.574"W 80°37'11.286"W 80°37'11.286"W 80°37'14.511"W 80°37'14.511"W 80°37'14.63"W	80°37'05.35"W 80°37'05.915"W 80°37'07.146"W 80°37'07.146"W 80°37'09.156"W 80°37'10.574"W 80°37'11.286"W 80°37'12.653"W 80°37'14.511"W 80°37'14.511"W 80°37'15.671"W	80°37'05.59"W 80°37'05.915"W 80°37'05.529"W 80°37'07.146"W 80°37'09.470"W 80°37'09.470"W 80°37'11.286"W 80°37'12.635"W 80°37'14.511"W 80°37'14.511"W 80°37'15.65"W 80°37'15.65"W 80°37'15.65"W	80°37'05.59"W 80°37'05.915"W 80°37'05.529"W 80°37'07.146"W 80°37'09.470"W 80°37'09.470"W 80°37'11.286"W 80°37'11.286"W 80°37'14.511"W 80°37'15.085"W 80°37'15.085"W 80°37'15.085"W 80°37'15.085"W 80°37'15.085"W 80°37'15.080"W 80°37'15.080"W	80°37'05.35"W 80°37'05.278"W 80°37'05.529"W 80°37'07.146"W 80°37'09.470"W 80°37'11.286"W 80°37'11.286"W 80°37'12.635"W 80°37'14.517"W 80°37'15.086"W 80°37'15.086"W 80°37'15.086"W 80°37'15.086"W 80°37'15.086"W 80°37'15.086"W 80°37'15.086"W 80°37'15.086"W 80°37'15.086"W 80°37'15.086"W 80°37'15.080"W	80°37'05.35"W 80°37'05.915"W 80°37'05.529"W 80°37'07.146"W 80°37'09.470"W 80°37'09.456"W 80°37'11.286"W 80°37'11.286"W 80°37'14.51"W 80°37'14.51"W 80°37'15.086"W 80°37'15.086"W 80°37'15.086"W 80°37'15.086"W 80°37'15.086"W 80°37'15.086"W 80°37'15.086"W 80°37'15.086"W 80°37'15.086"W 80°37'15.086"W	80°37'05.35"W 80°37'05.218"W 80°37'05.529"W 80°37'07.146"W 80°37'09.156"W 80°37'11.286"W 80°37'11.286"W 80°37'14.51"W 80°37'14.51"W 80°37'15.08"W 80°37'15.08"W 80°37'15.08"W 80°37'15.08"W 80°37'15.08"W 80°37'15.08"W 80°37'15.08"W 80°37'15.08"W 80°37'15.08"W 80°37'15.08"W 80°37'15.08"W 80°37'15.08"W 80°37'15.08"W 80°37'15.08"W 80°37'15.08"W 80°37'16.08"W 80°37'16.08"W 80°37'16.08"W	80°37'05.35"W 80°37'05.278"W 80°37'05.59"W 80°37'07.146"W 80°37'09.156"W 80°37'11.286"W 80°37'11.286"W 80°37'14.51"W 80°37'14.51"W 80°37'15.08"W 80°37'15.08"W 80°37'15.08"W 80°37'15.08"W 80°37'15.08"W 80°37'15.08"W 80°37'15.08"W 80°37'15.08"W 80°37'15.08"W 80°37'15.08"W 80°37'15.08"W 80°37'15.08"W 80°37'16.299"W 80°37'16.299"W 80°37'16.299"W	80°37'15.53"W 80°37'05.218"W 80°37'05.515"W 80°37'07.146"W 80°37'09.156"W 80°37'11.286"W 80°37'11.286"W 80°37'14.511"W 80°37'15.086"W 80°37'15.086"W 80°37'15.086"W 80°37'15.086"W 80°37'15.086"W 80°37'15.086"W 80°37'16.091"W 80°37'16.091"W 80°37'16.091"W 80°37'16.091"W 80°37'16.091"W 80°37'16.091"W 80°37'18.086"W 80°37'18.086"W 80°37'18.086"W	80°37'05.918"W 80°37'05.918"W 80°37'05.918"W 80°37'07.146"W 80°37'09.156"W 80°37'11.286"W 80°37'11.286"W 80°37'14.511"W 80°37'15.086"W 80°37'16.291"W 80°37'17.595"W	80°37'05.918"W 80°37'05.918"W 80°37'05.918"W 80°37'05.918"W 80°37'07.146"W 80°37'01.554"W 80°37'11.286"W 80°37'14.511"W 80°37'15.086"W	80°37'05.918"W 80°37'05.918"W 80°37'05.918"W 80°37'05.918"W 80°37'07.146"W 80°37'09.156"W 80°37'11.286"W 80°37'14.511"W 80°37'15.086"W 80°37'10.030"W 80°37'10.030"W 80°37'10.030"W 80°37'10.030"W 80°37'10.030"W 80°37'10.030"W 80°37'10.030"W 80°37'10.030"W	80°37'05.918"W 80°37'05.918"W 80°37'05.918"W 80°37'07.146"W 80°37'07.146"W 80°37'11.286"W 80°37'14.511"W 80°37'15.086"W 80°37'16.299"W 80°37'16.299"W 80°37'16.399"W 80°37'16.399"W 80°37'16.399"W 80°37'16.399"W 80°37'16.399"W
Slot 5H	Brian		Sidetrack from Brian I	Latitude	TINHOGE GENERAL	40 UZ 30.305 IN	40 02 39.058 N 40°02'39.058"N	40°02'39.728"N 40°02'39.728"N	40°02'39.058"N 40°02'39.728"N 40°02'40.434"N	40 02 38.369 N 40 02 39.058"N 40 02 39.728"N 40 02 40.434"N 40 02 41.126"N	40 02.39.058"N 40°02'39.058"N 40°02'40.434"N 40°02'41.126"N 40°02'41.808"N	40 02.39.058"N 40°02'39.058"N 40°02'40.434"N 40°02'41.126"N 40°02'41.808"N 40°02'42.473"N	40 02.39.058"N 40°02'39.058"N 40°02'40.434"N 40°02'41.126"N 40°02'42.473"N 40°02'43.152"N	40 02.39.058 N 40°02'39.058"N 40°02'40.434"N 40°02'41.126"N 40°02'42.473"N 40°02'43.152"N 40°02'43.152"N	40 02.39.058"N 40°02'39.058"N 40°02'41.126"N 40°02'41.126"N 40°02'42.473"N 40°02'43.152"N 40°02'43.152"N 40°02'43.152"N 40°02'43.152"N	40 02.39.059 N 40°02'39.058"N 40°02'41.126"N 40°02'41.126"N 40°02'42.473"N 40°02'43.152"N 40°02'43.152"N 40°02'43.152"N 40°02'43.152"N 40°02'43.152"N 40°02'43.152"N	40 02.39.059 N 40°02'39.058"N 40°02'41.126"N 40°02'41.126"N 40°02'42.473"N 40°02'43.152"N 40°02'43.152"N 40°02'43.152"N 40°02'45.828"N 40°02'45.170"N 40°02'45.170"N	40 02.39.059 N 40°02'39.058"N 40°02'40.434"N 40°02'41.126"N 40°02'42.473"N 40°02'43.152"N 40°02'43.828"N 40°02'45.828"N 40°02'45.828"N 40°02'45.828"N 40°02'45.828"N 40°02'45.828"N 40°02'45.828"N 40°02'45.828"N	40 02.39.089 N 40°02'39.058"N 40°02'40.434"N 40°02'41.126"N 40°02'42.473"N 40°02'43.152"N 40°02'43.152"N 40°02'45.152"N 40°02'45.150"N 40°02'45.170"N 40°02'45.170"N 40°02'45.170"N 40°02'45.140"N 40°02'45.140"N	40 02 39.369 N 40°02'39.058"N 40°02'41.126"N 40°02'41.126"N 40°02'43.152"N 40°02'43.152"N 40°02'43.152"N 40°02'45.152"N 40°02'45.152"N 40°02'45.152"N 40°02'45.180"N 40°02'45.180"N 40°02'45.180"N 40°02'45.180"N 40°02'45.180"N	40 02.39.058"N 40°02'39.058"N 40°02'41.126"N 40°02'42.473"N 40°02'43.152"N 40°02'43.152"N 40°02'45.170"N 40°02'45.170"N 40°02'45.170"N 40°02'45.180"N 40°02'45.180"N 40°02'45.180"N 40°02'45.180"N 40°02'47.180"N 40°02'47.180"N 40°02'47.180"N	40 02.39.058"N 40°02'39.058"N 40°02'41.126"N 40°02'41.126"N 40°02'42.473"N 40°02'45.152"N 40°02'45.152"N 40°02'45.152"N 40°02'45.152"N 40°02'45.152"N 40°02'45.152"N 40°02'45.150"N 40°02'45.150"N 40°02'45.150"N 40°02'45.150"N 40°02'45.150"N 40°02'45.150"N 40°02'45.150"N 40°02'45.150"N 40°02'45.150"N 40°02'45.150"N 40°02'45.150"N	40 02.39.058"N 40°02'39.058"N 40°02'41.126"N 40°02'41.126"N 40°02'42.473"N 40°02'43.152"N 40°02'45.828"N 40°02'45.828"N 40°02'45.828"N 40°02'45.828"N 40°02'45.828"N 40°02'45.828"N 40°02'45.828"N 40°02'45.828"N 40°02'45.828"N 40°02'45.828"N 40°02'45.828"N 40°02'45.828"N 40°02'48.629"N 40°02'48.629"N 40°02'48.629"N 40°02'48.629"N	40 02.39.058"N 40°02'39.058"N 40°02'41.126"N 40°02'41.126"N 40°02'42.473"N 40°02'45.152"N 40°02'45.152"N 40°02'45.152"N 40°02'45.150"N 40°02'45.828"N 40°02'45.828"N 40°02'45.828"N 40°02'45.828"N 40°02'45.828"N 40°02'47.895"N 40°02'48.629"N 40°02'48.629"N 40°02'48.629"N 40°02'48.629"N 40°02'48.629"N 40°02'50.600'N 40°02'50'N 40°02'50'N 40°02'50'N 40°02'50'N 40°02'50'N 40°02'50'N 40°02'50'N 40°02'50'N 40°02'50'N 40°02'50'N 40°02'50'N 40°02'50'N	40 02.39.058"N 40°02'39.058"N 40°02'41.126"N 40°02'41.126"N 40°02'42.473"N 40°02'43.152"N 40°02'45.152"N 40°02'45.150"N 40°02'45.150"N 40°02'45.828"N 40°02'45.828"N 40°02'45.828"N 40°02'45.828"N 40°02'45.828"N 40°02'45.828"N 40°02'47.895"N 40°02'48.629"N 40°02'48.629"N 40°02'50.017"N 40°02'50.050.017"N 40°02'50.050.017"N	40 02.39.058"N 40°02'39.058"N 40°02'41.126"N 40°02'41.808"N 40°02'43.152"N 40°02'43.152"N 40°02'45.828"N 40°02'50.058"N 40°02'50.058"N 40°02'50.058"N 40°02'50.058"N 40°02'50.058"N	40 02 39, 369 N 40 02 39, 058 N 40 02 39, 728 N 40 02 41, 126 N 40 02 42, 473 N 40 02 44, 507 N 40 02 45, 152 N 40 02 45, 150 N 40 02 45, 150 N 40 02 46, 504 N 40 02 48, 629 N 40 02 48, 629 N 40 02 50, 692 N 40 02 50, 652 N	40 02.39.058"N 40°02'39.058"N 40°02'41.126"N 40°02'41.126"N 40°02'42.473"N 40°02'43.152"N 40°02'45.152"N 40°02'45.152"N 40°02'45.152"N 40°02'45.152"N 40°02'45.829"N 40°02'45.829"N 40°02'46.504"N 40°02'46.504"N 40°02'50.652"N 40°02'50.652"N 40°02'50.652"N 40°02'50.652"N 40°02'50.652"N 40°02'50.652"N 40°02'50.652"N 40°02'50.652"N 40°02'50.652"N 40°02'50.652"N 40°02'50.652"N 40°02'50.652"N 40°02'50.652"N 40°02'50.652"N 40°02'50.652"N 40°02'50.652"N	40 02.39.058"N 40°02'39.058"N 40°02'41.126"N 40°02'41.126"N 40°02'43.152"N 40°02'43.152"N 40°02'45.152"N 40°02'45.152"N 40°02'45.152"N 40°02'45.152"N 40°02'45.152"N 40°02'45.152"N 40°02'50.052"N 40°02'50.052"N 40°02'50.052"N 40°02'50.052"N 40°02'50.052"N 40°02'50.052"N 40°02'50.052"N 40°02'50.052"N 40°02'50.052"N 40°02'50.052"N 40°02'50.052"N 40°02'50.052"N 40°02'50.052"N 40°02'50.052"N 40°02'50.052"N 40°02'50.052"N 40°02'50.052"N 40°02'50.052"N 40°02'50.052"N	40 02 39,563 N 40 02 39,058 N 40 02 39,728 N 40 02 41,126 N 40 02 43,152 N 40 02 43,152 N 40 02 44,507 N 40 02 45,152 N 40 02 50,152 N 40 02 50,152 N 40 02 50,152 N 40 02 52,053 N 40 02 53,053 N	40 02 39.059 N 40 02 39.058 N 40 02 39.058 N 40 02 41.126 N 40 02 43.152 N 40 02 43.152 N 40 02 43.152 N 40 02 44.507 N 40 02 45.829 N 40 02 50.058 N	40 02 39.059 N 40 02 39.058 N 40 02 41.126 N 40 02 42.473 N 40 02 43.152 N 40 02 43.152 N 40 02 43.152 N 40 02 44.507 N 40 02 45.829 N 40 02 50.017 N	40 02 39,569 N 40 02 39,058 N 40 02 39,728 N 40 02 41,126 N 40 02 43,152 N 40 02 43,152 N 40 02 43,152 N 40 02 44,507 N 40 02 45,170 N 40 02 55,170 N	40 02 39,589 N 40 02 39,058 N 40 02 39,058 N 40 02 41,126 N 40 02 43,152 N 40 02 43,152 N 40 02 44,507 N 40 02 45,160 N 40 02 55,160 N 40 02 55,268 N
Slot	Well	Wellbore	Sidetra	Grid North [US ft]	00 0000111	14542983.99	14542983.99	14543051.44 14543118.93	14543051.44 14543118.93 14543118.93	14542963.99 14543051.44 14543118.93 14543190.17	14542951.44 14543118.93 14543190.17 14543259.94 14543328.77	14543051.44 14543051.44 14543118.93 14543259.94 14543328.77 14543395.80	14543051.44 14543051.44 14543118.93 14543259.94 14543328.77 14543395.80	14543051.44 14543051.44 14543118.93 14543259.94 14543328.77 14543395.80 14543464.22	14543051.44 14543051.44 14543118.93 14543259.94 14543328.77 14543395.80 14543464.22 14543600.83	14543051.44 14543051.44 14543118.93 14543259.94 14543328.77 14543395.80 14543464.22 14543600.83	14542983.99 14543051.44 14543118.93 14543259.94 14543328.77 14543395.80 14543464.22 14543600.83 14543667.62	14543051.44 14543051.44 14543118.93 14543190.17 14543259.94 14543395.80 1454360.83 1454360.83 1454360.83 1454360.83 14543601.83	14543051.44 14543051.44 14543118.93 14543259.94 14543328.77 14543360.83 14543532.37 1454350.83 1454350.15 14543802.15 14543802.15	14543051.44 14543051.44 14543118.93 14543269.94 14543328.77 14543365.80 14543502.87 14543607.62 14543607.62 14543802.15 14543802.15 14543802.15 145438734.10													14543983.99 14543051.44 1454318.93 14543259.94 14543328.77 1454395.80 1454352.37 1454360.83 1454360.15 14543802.15 14544016.42 14544016.42 14544016.42 14544016.42 14544224.53 14544224.53 14544224.53 1454422.77 1454480.87 1454480.87 14544813.26	14542983.99 14543051.44 14543051.44 14543328.77 14543395.80 14543395.80 14543395.87 14543530.37 14543802.15 14544016.42 1454422.45 14544350.26 14544350.26 1454480.87 1454480.87 14544813.26 14544813.26 14544813.26
				Grid East [US ft]	10000000000	1/4/340.00	1747290.16	1747290.16 1747240.29	1747290.16 1747290.16 1747240.29 1747192.31	1747346.50 1747290.16 1747240.29 1747192.31 1747143.98	1747290.16 1747240.29 1747192.31 1747143.98 1747143.60	1747290.16 1747240.29 1747192.31 1747143.98 1747092.60	1747290.16 1747240.29 1747192.31 1747143.98 1747092.60 1747040.52	1747290.16 1747290.16 1747192.31 1747143.98 1747092.60 1747040.52 1746986.90	1747290.16 1747290.16 1747192.31 1747143.98 1747092.60 1747090.52 1746986.90 1746932.89	1747290.16 1747290.16 1747192.31 1747143.98 1747092.60 1747090.52 1746986.90 1746932.89 1746876.07	1747290.16 1747290.16 1747192.31 1747143.98 1747092.60 1747040.52 1746986.90 1746986.90 1746986.90 1746980.39	1747290.16 1747290.16 1747192.31 1747143.98 1747092.60 1746986.90 1746986.90 1746986.90 1746986.90 174696.07 1746767.47	1747290.16 1747290.16 1747240.29 1747192.31 1747092.60 1746986.90 1746986.90 1746820.39 1746820.39 1746767.47	1747290.16 1747290.16 1747240.29 1747192.31 1747040.52 1746986.90 1746986.90 1746820.39 174676.47 174676.47 174664.14 174664.14	1747290.16 1747290.16 1747192.31 1747192.31 1747092.60 1746986.90 1746986.90 1746876.07 1746876.07 1746714.94 174664.14 1746613.90 1746613.90	1747290.16 1747290.16 1747240.29 1747192.31 1747040.52 1746986.90 1746986.90 1746820.39 1746714.94 174664.14 174664.14 1746613.90 1746568.18	1747290.16 1747290.16 1747240.29 1747192.31 1747040.52 1746986.90 1746986.90 1746820.39 1746664.14 1746664.14 1746664.14 1746613.90 1746568.18	1747290.16 1747290.16 1747240.29 1747192.31 1747040.52 1746986.90 1746986.90 1746820.39 1746820.39 1746664.14 1746664.14 1746613.90 1746613.90 1746613.90 1746613.90	1747290.16 1747290.16 1747240.29 1747192.31 1747192.31 1747040.52 1746986.90 1746986.90 1746820.39 1746820.39 1746664.14 1746664.14 1746664.14 1746664.14 174664.14	1747290.16 1747290.16 1747240.29 1747192.31 1747040.52 1746986.90 1746986.90 1746876.07 1746820.39 1746664.14 1746568.18 1746568.18 1746568.18 1746568.14 1746568.14 1746568.14 1746568.14 1746568.14 1746568.14 1746568.14	1747290.16 1747290.16 1747240.29 1747192.31 1747192.31 1747040.52 1746986.90 1746986.90 1746820.39 1746820.39 1746564.14 1746564.14 1746568.18 1746568.18 1746568.18 174647.43 174647.43 1746477.43	1747290.16 1747290.16 1747240.29 1747192.31 1747192.31 1747092.60 1747092.60 1746986.90 1746986.90 1746820.39 1746820.39 174664.14 174664.14 174658.18 174658.18 174658.30 174647.43 174647.43 174647.43 174647.43	1747290.16 1747290.16 1747240.29 1747192.31 1747192.31 1747092.60 1747092.60 1746986.90 1746986.90 1746820.39 1746820.39 174664.14 174664.14 174664.14 1746523.22 1746523.22 1746477.43 1746523.03 1746523.03	1747290.16 1747290.16 1747240.29 1747192.31 1747192.31 1747040.52 1746986.90 1746986.90 1746820.39 1746820.39 174664.14 174664.14 174664.14 174664.14 174664.14 1746613.90 1746428.30 1746428.30 1746428.30 174627.01 174627.01 174627.01	1747290.16 1747290.16 1747290.16 1747192.31 1747192.31 1747040.52 1746986.90 1746986.90 1746986.90 1746820.39 1746820.39 174664.14 174664.14 174664.14 174664.14 174664.14 1746613.90 1746428.30 1746428.30 174627.01 174627.01 174627.01 174627.01	1747290.16 1747290.16 1747290.16 1747192.31 1747192.31 1747040.52 1746986.90 1746986.90 1746986.90 1746820.39 1746820.39 174664.14 174664.14 174664.14 174664.14 174664.14 1746613.90 1746623.22 174647.43 174627.01 174627.01 174627.01 174627.03 174627.30 174627.30 174627.30 1746109.91 1746109.91	1747290.16 1747290.16 1747240.29 1747192.31 1747192.31 1746986.90 1746986.90 1746986.90 1746820.39 1746820.39 174664.14 174664.14 1746613.90 174664.14 1746613.90 1746623.22 1746613.90 1746613.90 1746523.23 1746523.23 1746523.23 1746523.23 1746523.23 1746523.23 1746523.33 174657.43 174657.30 174657.30 174657.30 174657.30 174657.30 174657.30 174657.30 174657.30 174657.30 174657.30 174657.30 174657.30 174657.30 174657.30 174657.30	
				East [ft]	-2842.90		-2899.36	-2899.36	-2899.36 -2949.25 -2997.25	-2899.36 -2949.25 -2997.25 -3045.61	-2899.36 -2949.25 -2997.25 -3045.61	-2899.36 -2949.25 -2997.25 -3045.61 -3097.00	-2899.36 -2949.25 -2997.25 -3045.61 -3097.00 -3149.10	-2899.36 -2949.25 -2997.25 -3045.61 -3149.10 -3202.75	-2899.36 -2949.25 -2997.25 -3045.61 -3097.00 -3149.10 -3256.78 -3256.78	-2899.36 -2949.25 -2997.25 -3045.61 -3149.10 -3256.78 -3313.61 -369.32	-2899.36 -2949.25 -2997.25 -3045.61 -3149.10 -3252.75 -3256.78 -3369.32 -3422.25	-2899.36 -2949.25 -3045.61 -3045.00 -3149.10 -3256.78 -3256.78 -3369.32 -3422.25 -3474.81	-2899.36 -2949.25 -3049.25 -3047.00 -3149.10 -3256.78 -3359.32 -3472.25 -3474.81 -3525.62	-2899.36 -2949.25 -3045.61 -3045.61 -3027.00 -3125.75 -3256.78 -3313.61 -3369.32 -3474.81 -3525.62 -3575.89	-2899.36 -2949.25 -3045.61 -3045.61 -302.75 -325.78 -3313.61 -325.25 -3472.25 -3474.81 -3525.62 -3575.89	-2899.36 -2949.25 -3045.61 -3045.61 -3045.61 -3256.78 -3256.78 -3369.32 -3472.25 -3474.81 -3525.62 -3525.62 -3525.62 -3525.62 -3525.62 -3525.62 -3525.62 -3525.62 -366.61	-2899.36 -2949.25 -3045.61 -3045.61 -3210.00 -3256.78 -3256.78 -3256.78 -3474.81 -3474.81 -3525.62 -35	-2899.36 -2949.25 -3045.61 -3045.61 -3205.76 -3256.78 -3256.78 -3474.81 -3474.81 -355.62 -355.	-2899.36 -2949.25 -3045.61 -3045.61 -3202.75 -3256.78 -3256.78 -3474.81 -3474.81 -3525.62 -35	-2899.36 -2949.25 -3045.61 -3045.61 -3202.75 -3256.78 -3359.32 -344.81 -344.81 -355.62	-2899.36 -2949.25 -3045.61 -3045.61 -3256.78 -3256.78 -3359.32 -3474.81 -3525.62 -3525.62 -3525.62 -3712.41 -3525.62 -35	-2899.36 -2949.25 -3045.61 -3045.61 -3149.10 -3256.78 -3256.78 -3359.32 -3474.81 -3525.62 -3525.62 -3525.62 -374.81 -3525.62 -352	-2899.36 -2949.25 -3045.61 -3045.61 -3149.10 -3256.78 -3356.78 -3474.81 -3525.62 -3474.81 -3525.62 -355.62 -366.61 -355.62 -366.61 -36	-2899.36 -2949.25 -3049.25 -3049.25 -304.00 -3149.10 -325.67 -3474.81 -352.25 -3474.81 -352.62 -366.61 -3712.41 -376.89 -366.61 -3712.41 -376.89 -366.61 -376.89 -376.89 -376.89 -376.89 -376.89 -376.89 -376.89 -376.89 -376.89 -376.89 -376.89 -376.89 -376.89 -376.89 -376.89 -376.89 -376.89 -376.89 -376.89	-2899.36 -2949.25 -3049.25 -3049.25 -304.00 -3149.10 -325.61 -3474.81 -355.62 -366.61 -3712.41 -3761.56 -3811.40 -3761.56 -3811.40 -3761.56 -3811.40 -3761.56 -3811.40 -3761.56 -3811.40 -3761.56 -3811.33 -3974.03 -3974.03 -4080.07	-2899.36 -2949.25 -3049.25 -3049.25 -3045.61 -325.61 -325.62 -3474.81 -355.62 -366.61 -3712.41 -376.89 -366.61 -376.89 -366.61 -376.89 -366.61 -376.89 -366.61 -376.89 -366.61 -376.89 -366.61 -376.89 -366.61 -376.89 -366.61 -376.89 -366.61 -376.89 -366.61 -376.89 -366.61 -376.89 -366.61 -376.89 -366.61 -376.89 -366.61 -376.89 -366.61 -376.89 -366.61 -376.89 -366.61 -376.89 -366.61 -376.89 -366.89 -366.89 -366.80		-2899.36 -2949.25 -3049.25 -3049.25 -3045.61 -325.61 -325.75 -3474.81 -355.62 -355.62 -366.61 -376.89 -366.61 -376.89 -366.61 -376.89 -366.61 -376.89 -366.61 -376.89 -366.61 -376.89 -366.61 -376.89 -366.61 -376.89 -366.61 -376.89 -366.61 -376.89 -366.61 -376.89 -366.61 -376.89 -366.61 -376.89 -366.61 -376.89 -366.61 -376.89 -366.61 -376.89 -366.61 -376.89 -366.61 -376.89 -366.61 -376.89 -376.89 -376.89 -376.89 -376.89 -376.89 -376.89 -376.89 -376.89 -376.89 -376.89 -376.89 -376.89 -376.89
				North [ft]	1000	90,7906	5135.17	5067.69 5135.17 5202.68	5067.69 5135.17 5202.68 5273.94	5067.69 5135.17 5202.68 5273.94 5343.75	5067.69 5135.17 5202.68 5273.94 5343.75 5412.60	5202.68 5273.94 5273.94 5273.94 5273.60 5412.60	5135.17 5202.68 5273.94 5343.75 5412.60 5479.66	5067.69 5135.17 5202.68 5273.94 5343.75 5412.60 5479.66 5548.10 5616.28	5016, 69 5202, 68 5273, 94 5343, 75 5412, 60 5479, 66 5548, 10 5616, 28	5016, 69 5273, 94 5273, 94 5273, 94 5343, 75 5412, 60 5548, 10 5616, 28 5684, 76 5751, 59	5006, 69 5202.68 5202.68 5273.94 5343.75 5412.60 5479.66 5548.10 5616.28 5616.28 5616.28 5616.28	5135.17 5202.68 5273.94 5273.94 5343.75 5479.66 5548.10 5616.28 5616.28 5616.28 5616.28 5616.28	505.68 5273.94 5273.94 5273.94 5273.94 5273.60 5479.66 5548.10 5616.28 5684.76 5751.59 5886.16 5954.30	505.69 5202.68 5273.94 5243.75 5343.75 5412.60 5548.10 5684.76 5751.59 5886.16 5886.16 5954.30	505.68 5273.94 5273.94 5273.94 52412.60 5479.66 5548.10 5616.28 5614.76 5616.28 5616.28 5616.28 5616.28 5616.28 5616.28 5616.28 5616.28 5616.28 5616.28 5616.28 5616.28 5616.28 5616.28		5135.17 5135.17 5202.68 5273.94 5343.75 5412.60 5548.10 5616.28 5884.76 5751.59 5886.16 5954.30 6026.52 6173.80	5135.17 5135.17 5202.68 5273.94 5343.75 5412.60 5479.66 5548.10 5616.28 5886.16 5886.16 5954.30 6026.52 6170.51 6170.51 6240.60	5135.17 5135.17 5202.68 5273.94 5343.75 5412.60 5479.66 5548.10 5616.28 5886.16 5886.16 5954.30 6026.52 6100.51 6308.71 6376.32	5135.17 5135.17 5202.68 5273.94 5343.75 5412.60 5479.66 5548.10 5616.28 5886.16 5954.30 6026.52 6170.51 6308.71 6376.32	5573.94 5573.94 5573.94 5573.94 5573.94 5573.75 5412.60 5548.10 5584.76 5586.16 5586.16 5586.16 5954.30 6026.52 6170.51 6173.80 6240.60 6240.60 6373.71 6442.69 6507.03	5573.94 5573.94 55273.94 55273.94 55412.60 5412.60 5548.10 5616.28 5548.10 5616.28 6026.52 6170.51 6173.80 6240.60 6308.71 6308.71 6442.69 6557.33	505, 69 5135, 17 5135, 17 5202, 68 5273, 94 5343, 75 5412, 60 5548, 10 5616, 28 5616, 28 5616, 28 5616, 28 6026, 52 6100, 51 613, 80 6240, 60 6240, 60 6308, 71 6308, 71 6442, 69 6557, 03 6634, 57	55273.94 55273.94 55273.94 55273.94 55273.94 55412.60 55413.60 5548.10	5202.68 5202.68 5202.68 5202.68 5212.60 5412.60 5412.60 5548.10 5616.28 5684.76 5684.76 6026.52 6100.51 610.51 6308.71	5573.94 5573.94 5573.94 5573.94 5573.94 5573.94 5573.94 5579.66 5578.10 5616.28 5684.76 5616.28 5684.76 6100.51 6100.51 6100.51 6240.60 6308.71 6308.71 630.03 6577.30 6577.30 6577.30 6577.30 6577.03 6633.65 6634.57	5273.94 5272.68 5273.94 52412.60 5412.60 55418.09 5616.28 5684.76 5616.28 5684.76 6026.52 6100.51 6100.51 6047.63 6047.63 6047.63 6047.63 6047.63 6057.03 6057.03 6057.03	5202.68 5273.94 5273.94 52412.60 5412.60 55418.09 5616.28 5684.76 5688.10 6026.52 6100.51 6100.51 6047.60 6634.71 6047.60 6634.71 6762.60 6634.71 6762.60 6634.71 6762.60 6634.71 6762.60 6634.71 6762
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	Ohio County, WV		Brian Dytko OHI Pad	WELLPATH DATA (191 stations) MD Inclination Azimuth TVD Vert		89.170 318.640 6279.08 5804.46	0 318.640 0 321.520	70 318.640 70 321.520 30 325.560	70 318.640 70 321.520 30 325.560 10 326.510	0 318.640 0 321.520 00 325.560 0 326.510 0 326.510	0 318.640 0 321.520 00 325.560 00 326.510 00 324.070 30 322.450	89.170 318.640 6279.08 89.170 321.520 6280.35 87.600 325.560 6282.72 87.510 326.510 6286.39 87.570 324.070 6290.04 87.630 322.450 6293.64 87.450 321.860 6297.29	0 318.640 0 321.520 10 325.560 10 326.510 0 322.450 80 322.450 80 321.860 80 321.860	0 318.640 0 321.520 10 325.560 10 326.510 10 324.070 30 322.450 50 321.860 30 321.860	89.170 318.640 6279.08 89.170 321.520 6280.35 87.600 325.560 6282.72 87.510 326.510 6290.04 87.630 322.450 6299.97 89.020 321.250 6300.99 90.030 319.370 6301.26	0 318.640 0 321.520 0 325.560 0 326.510 0 322.450 0 321.860 0 321.860 0 321.250 0 321.250 0 321.250	89.170 318.640 6279.08 89.170 321.520 6280.35 87.610 325.550 6282.72 87.510 326.39 87.570 324.450 6299.97 89.020 321.960 6391.26 89.030 319.370 6301.26 89.940 321.960 6301.26 89.940 321.960 6301.26	89.170 318.640 6279.08 89.170 321.520 6280.35 87.610 325.550 6282.72 87.510 326.510 6286.39 87.530 322.450 6293.64 87.450 321.860 6297.29 89.020 321.860 6299.97 89.630 321.250 6300.99 99.030 319.370 6301.26 89.940 321.960 6301.26	0 318.640 0 321.520 0 325.560 0 324.070 0 321.860 0 321.860 0 321.260 0 321.260 0 321.260 0 321.260 0 321.260 0 321.260 0 321.260 0 321.260 0 321.260	0 318.640 0 321.520 0 325.560 0 326.510 0 32.450 0 321.860 0 321.860 0 321.250 0 321.250 0 321.250 0 321.250 0 321.250 0 321.250 0 321.250 0 321.250 0 321.250 0 321.250	89.170 318.640 6279.08 89.170 321.520 6280.35 87.600 325.560 6282.72 87.610 326.510 6286.39 87.670 324.070 6290.04 87.650 324.070 6290.09 89.030 321.250 6300.99 90.030 319.370 6301.26 89.970 321.960 6301.26 89.970 321.960 6301.35 89.880 323.870 6301.35 89.880 323.870 6301.65 89.940 330.100 6301.65 89.940 330.100 6301.85 89.880 323.870 6301.65 89.940 330.100 6301.65	89.170 318.640 6279.08 89.170 321.520 6280.35 87.600 325.560 6282.72 87.510 326.510 6286.39 87.570 324.507 6290.04 87.450 322.450 6293.64 87.450 321.860 6295.29 89.630 321.250 6299.97 89.630 321.250 6301.26 89.940 321.960 6301.35 89.940 321.960 6301.35 89.970 322.700 6301.39 89.940 323.870 6301.50 89.940 320.460 6301.65 89.940 320.460 6301.65	89.170 318.640 6279.08 89.170 321.520 6280.35 87.600 325.560 6282.72 87.610 326.36 6282.72 87.670 324.50 6280.36 89.003 324.320 6301.85 89.940 321.960 6301.26 89.970 321.960 6301.26 89.970 321.960 6301.26 89.970 321.960 6301.26 89.970 321.960 6301.26 89.970 321.960 6301.26 89.970 321.960 6301.26 89.970 322.700 6301.85 89.940 323.870 6301.65 89.940 326.810 6301.78 89.940 326.810 6301.78 89.940 326.810 6301.78	89.170 318.640 6279.08 89.170 321.520 6280.35 87.600 325.560 6282.72 87.600 325.560 6282.72 87.670 324.050 6289.04 89.970 321.960 6299.97 89.600 321.960 6299.97 89.970 321.960 6301.26 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600,14 5273,94 -2997,25 87,630 322,450 6290,97 648,94 5616,28 -3256,78 89,000 321,260 6290,97 648,94 5616,28 -3256,78 89,000 321,260 6301,26 663,10 574,74 584,87 -3474,81 89,000 321,360 6301,32 6747,74 584,87 -3474,81 89,970 322,700 6301,32 6747,74 584,87 -3474,81 89,970 322,400 6301,80 7728,74 586,61 -3474,81</td>	89.170 318.640 6279.08 89.170 321.520 6280.35 87.600 325.560 6280.35 87.510 326.510 6286.39 87.570 324.070 6290.04 89.970 321.960 6297.29 89.630 321.960 6297.29 89.630 321.960 6297.29 89.630 321.960 6297.29 89.930 321.960 6301.26 89.940 321.960 6301.26 89.940 321.960 6301.26 89.940 321.260 6301.80 89.940 321.260 6301.80 89.940 323.40 6301.81 89.940 324.250 6301.81 89.940 324.250 6301.81 89.940 324.250 6301.81 89.940 324.250 6301.81 89.940 324.250 6301.81 89.940 324.250 6301.81 89.940 324.250 6301.81 89.940 324.250 6301.81 89.940 324.250 6301.81 89.940 321.250 6301.81 89.940 321.250 6301.81 89.940 321.250 6301.81 89.940 321.250 6301.81 89.940 321.250 6301.91 89.940 318.730 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-	Ohio C	Ohio	Brian D	NTH DA		89.17	89.170	89.170 89.170 87.600	89.170 89.170 87.600 87.510	89.170 89.170 87.600 87.510	89.170 89.170 87.600 87.510 87.570 87.530	89.17(89.17(87.60(87.51(87.53(87.63)	89.170 89.170 87.600 87.510 87.530 87.630 87.630 87.630																					
0000	Area	Field	Facility	WELLPA MD fft]		12141.00	12141.00	12141.00 12229.00 12313.00	12141.00 12229.00 12313.00 12399.00	12141.00 12229.00 12313.00 12399.00 12484.00	12141.00 12229.00 12313.00 12399.00 12484.00	12141.00 12229.00 12313.00 12399.00 12484.00 12570.00	12141.00 12229.00 12313.00 12399.00 12484.00 12570.00 12742.00	12141.00 12229.00 12313.00 12399.00 12484.00 12570.00 12742.00 12829.00	12141.00 12229.00 12313.00 12399.00 12484.00 12570.00 1255.00 12742.00 12829.00	12141.00 12229.00 12313.00 12399.00 12484.00 12570.00 1255.00 12742.00 12829.00 12918.00	12141.00 12229.00 12313.00 12399.00 12484.00 12570.00 1255.00 12742.00 12829.00 13005.00	12141.00 12229.00 12313.00 12399.00 12484.00 12570.00 1255.00 12742.00 12742.00 12918.00 13005.00	12141.00 12229.00 12313.00 12399.00 12484.00 12570.00 12655.00 12742.00 12742.00 12918.00 13005.00 13176.00	12141.00 12229.00 12313.00 12399.00 12484.00 12676.00 12655.00 12742.00 12742.00 12742.00 12918.00 13005.00 13176.00	12141.00 12229.00 12313.00 12399.00 12484.00 12656.00 12656.00 12742.00 12742.00 12742.00 12742.00 12742.00 1376.00 133349.00	12141.00 12229.00 12313.00 12399.00 1244.00 12656.00 12656.00 12742.00 12742.00 12742.00 12742.00 13005.00 13005.00 1376.00 1376.00 13349.00	12141.00 12229.00 12313.00 12399.00 1244.00 12570.00 1265.00 12742.00 12742.00 12829.00 12918.00 13090.00 1376.00 1376.00 1376.00 1376.00	12141.00 12229.00 12313.00 12399.00 1244.00 12570.00 12655.00 12742.00 12742.00 12829.00 12918.00 13090.00 13090.00 13436.00 13522.00 13603.00	12141.00 12229.00 12313.00 12399.00 12484.00 12570.00 12655.00 12655.00 12742.00 12829.00 12829.00 13090.00 13090.00 13436.00 13522.00 13633.00	12141.00 12229.00 12313.00 12399.00 12484.00 12570.00 12570.00 1265.00 12742.00 12742.00 12829.00 13005.00 13005.00 13436.00 13522.00 13693.00 13693.00	12141.00 12229.00 12313.00 12399.00 12484.00 12484.00 12570.00 12570.00 12656.00 12742.00 12742.00 13090.00 13090.00 13496.00 13522.00 13693.00 13697.00	12141.00 12229.00 12313.00 12399.00 12484.00 12570.00 1255.00 1265.00 13090.00 13090.00 13090.00 13496.00 13496.00 13693.00 13693.00 13693.00 13693.00	12141.00 12229.00 12313.00 12399.00 12484.00 12570.00 12570.00 1265.00 13090.00 13090.00 13090.00 1349.00 1349.00 13522.00 13687.00 13687.00 13687.00 13855.00	12141.00 12229.00 12313.00 12399.00 12484.00 12570.00 12570.00 12742.00 12742.00 13005.00 13005.00 1349.00 13522.00 13637.00 13655.00 13655.00 13655.00 14025.00	12141.00 12229.00 12313.00 12484.00 12484.00 12570.00 12570.00 12742.00 12742.00 12918.00 1305.00 1305.00 13436.00 13436.00 1365.00 1365.00 14025.00 14192.00	12141.00 12229.00 12313.00 12484.00 12570.00 12655.00 12742.00 12742.00 12742.00 12829.00 13005.00 13005.00 13436.00 13687.00 13687.00 13855.00 14025.00 14192.00	12141.00 12229.00 12313.00 12484.00 12484.00 12655.00 12655.00 12918.00 13055.00 13050.00 13176.00 13436.00 13522.00 13687.00 13687.00 13855.00 14025.00 14108.00 14360.00	12141.00 12229.00 12313.00 12484.00 12484.00 12655.00 12655.00 12829.00 12918.00 13005.00 13005.00 13176.00 13436.00 13436.00 13687.00 13855.00 14025.00 14445.00 14528.00





Southwestern Energy"	Actual Wellpath Report Brian Dytko OHI 5H ST01 AWP Proj: 15405'MD Page 8 of 10	MD dw	HUGHES a GE company
REFERENCE WELLPATH IDENTIFICATION	TION		
Operator SOUTHWESTERN ENERGY	Slot	Slot 5H	
Area Ohio County, WV	Well	Brian Dytko OHI 5H ST01	
Field Ohio	Wellbore	Brian Dytko OHI 5H ST01 AWB	
Facility Brian Dytko OHI Pad	Sidetrack from	Sidetrack from Brian Dytko OHI 5H AWP Proj: 15456'MD at 5281.00 MD	1.00 MD

	urn Rate	2.89	1.99	3.64	-0.55	1.53	-1.74	-4.02	0.16	1.11	2.47	0.00
	Build Rate Turn Rate	0.00	-0.19	-0.11	0.18	0.52	00.00	-0.05	-0.04	0.12	-0.18	0.00
	DLS B	2.89	2.00	3.64	0.58	1.61	1.74	4.02	0.16	1:11	2.48	0.00
		328.246	328.203	328.185	328.179	328.178	328.176	328.151	328.111	328.077	328.072	328.064
	Closure Dist Closure Dir [ft] [*]	8342.22	8425.98	8508.92	8592.91	8677.90	8761.89	8845.77	8928.54	9011.35	9028.33	9053.29
	Longitude	80°37'24.341"W	80°37'24.973"W	80°37'25.561"W	80°37'26.135"W	80°37'26.710"W	80°37'27.279"W	80°37'27.887"W	80°37'28.512"W	80°37'29.129"W	80°37'29.253"W	80°37'29.435"W
	Latitude	40°02'58.474"N	40°02'59.147"N	40°02'59.831"N	40°03'00.534"N	40°03'01.249"N	40°03'01.954"N	40°03'02.640"N	40°03'03.305"N	40°03'03.974"N	40°03'04.112"N	14545598.28 40°03'04.316"N 80°37'29.435"W
	Grid North [US ft]	14545009.01	14545076.93	14545145.96	14545216.87	14545288.94	1745569.92 14545360.09	14545429.30	90.950 323.970 6288.32 8928.53 7581.00 4716.69 1745473.54 14545496.33	14545563.80	14545577.74	14545598.28
	Grid East [US ft]	1745799.79	1745750.42	1745704.43	1745659.45	1745614.47	1745569.92	1745522.41	1745473.54	1745425.29	1745415.56	91.020 325.310 6286.12 9053.29 7683.00 -4788.92 1745401.34
	East [ft]	-4390.31	-4439.70	-4485.71	-4530.71	91.020 328.680 6292.68 8677.89 7373.53 4575.71	91.020 327.220 6291.18 8761.87 7444.71 -4620.27	-4667.80	-4716.69	91.050 324.890 6286.87 9011.35 7648.50 -4764.96	91,020 325,310 6286,56 9028,33 7662,44 -4774,69	-4788.92
	North [ft]	7093.50	7161.44	7230.50	7301.43	7373.53	7444.71	7513.94	7581.00	7648.50	7662.44	7683.00
us)	Vert Sect [ft]	8342.17	8425.95	8508.90	8592.90	8677.89	8761.87	8845.76	8928.53	9011.35	9028.33	9053.29
statio	DVT [#]	6296.17	6295.29	6294.60	6293.86	6292.68	6291.18	6289.71	6288.32	6286.87	6286.56	6286.12
TA (191	Azimuth	90.680 323.150 6296.17	90.520 324.820 6295.29 8425.95 7161.44 -4439.70	90.430 327.840 6294.60 8508.90 7230.50 -4485.71	90.580 327.380 6293.86 8592.90 7301.43 4530.71	328.680	327.220	90.980 323.840 6289.71 8845.76 7513.94 -4667.80	323.970	324.890	325,310	325.310
TH DAT	Inclination Azimuth	90.680	90.520	90.430	90.580	91.020	91.020	90.980	90.950	91.050	91.020	91.020
WELLPATH DATA (191 stations	MD [ft]	14693.00	14777.00	14860.00	14944.00	15029.00	15113.00	15197.00	15280.00	15363.00	15380.00	15405.00

HOLE & CASING SECTIONS - Ref Wellbore: Brian Dytko OHI 5H ST01 AWB	- Ref Wellbore:	Brian Dytko Ol	HI SH ST01 AW		Ref Wellpath: Brian Dytko OHI 5H ST01 AWP Proj: 15405'MD	tko OHI 5H	TO1 AWP Pr	oj: 15405'MD	
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	26.00	126.00	100.00	26.00	126.00	00.00	00.00	-0.05	0.30
17.5in Open Hole	126.00	200.00	574.00	126.00	700.00	-0.05	0:30	0.04	-0.57
13.375in Casing Surface	26.00	685.00	00.659	26.00	685.00	00.00	00.00	0.03	-0.63
12.25in Open Hole	700.00	2025.00	1325.00	700.00	2023.62	0.04	-0.57	-23.86	42.18
9.625in Casing Intermediate	26.00	2005.00	1979.00	26.00	2003.62	00.00	00.00	-23.78	42.03
8.75in Open Hole	2025.00	5525.00	3500.00	2023.62	5522.49	-23.86	42.18	2.36	20.85
8.5in Open Hole	5525.00	5536.00	11.00	5522.49	5533.45	2.36	20.85	3.23	21.06
5.5in Casing Production	26.00	5536.00	5510.00	26.00	5533.45	00.00	00.00	3.23	21.06
8.5in Open Hole	5230.00	15405.00	10175.00	5228.14	6286.12	-14.54	19.52	7683.00	-478 8,2 2
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Actual Wellpath Report Brian Dytko OHI 5H ST01 AWP Proj: 15405'MD Page 9 of 10



EFERE	REFERENCE WELLPATH IDENTIFICATION		
perator	Operator SOUTHWESTERN ENERGY	Slot	Slot 5H
Area	Ohio County, WV	Well	Brian Dytko OHI 5H ST01
Field	Ohio	Wellbore	Brian Dytko OHI 5H ST01 AWB
Facility	Brian Dytko OHI Pad	Sidetrack from	Sidetrack from Brian Dytko OHI 5H AWP Proj: 15456'MD at 5281.00 MD

TVD								
[#]	0.	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
Brian Dytko OHI 5H ST01 BHL Rev-7	6380.00	7680.10	-4793.33	1745396.93	14545595.39	40°03'04.287"N	80°37'29.492"W	point
							The same of the sa	
Beign Duthe Oul EU STO4 EOT Box 7	6380.00	1470.35	-108.31	1750080.13	14539388.05	40°02'02.722"N	80°36'29.598"W	point
Brian Dying Onl 3H 3101 EOT Nev-7	cx							
	6380.00	600.47	108.65	1750297.01	14538518.51	40°01'54.116"N	80°36'26.858"W	point
Brian Dytko Onl 3H 3101 LP Rev-/								

WELLPATH	I COMPOSITION - R	WELLPATH COMPOSITION - Ref Wellbore: Brian Dytko OHI 5H ST01 AWB	WB Ref Wellpath: Brian Dytko OHI 5H ST01 AWP Proj: 15405'MD	1 AWP Proj: 15405'MD
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
26.00	680.00 BHI Generic g)	Seneric gyro - northseeking (Standard) 0.	02_MS Gyro <17-1/2"> (100'-680')	Brian Dytko OHI 5H AWB
680.00	1979.00 BHI NaviTrak (Axial	(03_APS EM <12-1/4"> (680')(724'-1979')	Brian Dytko OHI 5H AWB
1979.00	5281.00 BHI NaviTrak (Axial).	04_APS EM <8-3/4"> (1979')(2033'-5446')	Brian Dytko OHI 5H AWB
5281.00	15380.00 BHI AutoTrak (Surve (Short)	01_BH AT Curve <8.5">(5379-15380')	Brian Dytko OHI 5H ST01 AWB
15380.00	15405.00 Blind Drilling (sto	1)	Projection to bit	Brian Dytko OHI 5H ST01 AWB
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Actual Wellpath Report Brian Dytko OHI 5H ST01 AWP Proj: 15405'MD Page 10 of 10



REFEREN	REFERENCE WELLPATH IDENTIFICATION		
Operator	SOUTHWESTERN ENERGY	Slot	Slot 5H
Area	Ohio County, WV	Well	Brian Dytko OHI 5H ST01
Field	Ohio	Wellbore	Brian Dytko OHI 5H ST01 AWB
Facility	Brian Dytko OHI Pad	Sidetrack from	Sidetrack from Brian Dytko OHI 5H AWP Proj: 15456'MD at 5281.00 MD
COMMENTS	ITS		
Wellpath ge	Wellpath general comments		
API: 47-069-	API: 47-069-00265-0100		
BH Job #: 9179947	179947		
Rig: SDC 42			
Duration: 05,	Duration: 05/30/2018 - 06/04/2018		
API: 47-069-	API: 47-069-00265-0000		
BH Job#: 9102916	102916		
Rig: SDC 42			
Duration: 04,	Duration: 04/16/2018 - 04/27/2018		
Duration: 04	1/16/2018 - 04/27/2018		

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