

49.02262

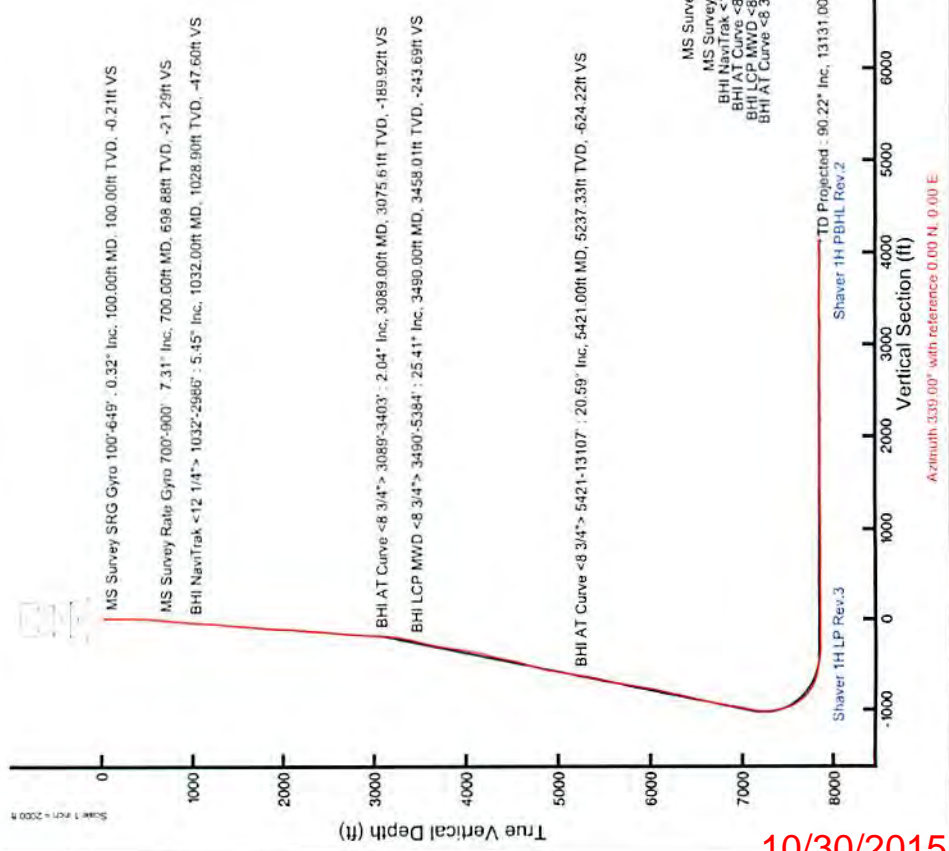


TRANS ENERGY INC.

Location: Marion County, WV
 Field: Marion
 Facility: Shaver Pad
 Slot: Slot 1
 Well: Shaver 1H
 Wellbore: Shaver 1H (PWB)

Location Information			
Facility Name	Grid East (US ft)	Grid North (US ft)	Longitude
Shaver Pad	1731369.591	39°33'52.097"N	80°27'10.294"W
Slot	Local E (ft)	Grid North (US ft)	Longitude
Slot 1	0.00	39°33'52.097"N	80°27'10.294"W
M07 (KB) to Mud line (At Slot: Slot 1)		24ft	
Mean Sea Level to Mud line (At Slot: Slot 1)		-1427.73ft	
M07 (KB) to Mean Sea Level		1451.73ft	

PGI reference well is Shaver 1H PWB Rev.02
 True vertical depths are referenced to M07 (KB)
 North reference is referenced to M07 (KB)
 Measured depths are referenced to M07 (KB)
 M07 (KB) to Mean Sea Level: 1451.73 feet
 Mean Sea Level to Mud line (At Slot: Slot 1): -1427.73 feet
 Depths are in feet
 Coordinates are in feet referenced to S14
 Created by: gdf/af on 06/16/2014



10/30/2015



Actual Wellpath Report
Shaver IH AWP Proj: 13131'

49-02262

REFERENCE WELLPATH IDENTIFICATION

Operator	TRANS ENERGY Inc.	Slot	Slot 1
Area	Marion County, WV	Well	Shaver IH
Field	Marion	Wellbore	Shaver IH (AWB)
Facility	Shaver Pad		

REPORT SETUP INFORMATION

Projection System	NAD27 / Lambert West Virginia SP, Northern Zone (4701), US feet	Software System	WellArchiect@ 4.0.1
North Reference	Grid	User	Gotfbral
Scale	0.999941	Report Generated	9/16/2014 at 4:03:13 PM
Convergence at slot	0.61° West	Database/Source file	WANorthEast/Shaver_IH_AWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North [ft]	East [ft]	Easting [US ft]	Northing [US ft]	Latitude	Longitude
Slot Location	0.00	0.00	1731369.59	389127.64	39°33'52.097"N	80°27'10.294"W
Facility Reference Pt			1731369.59	389127.64	39°33'52.097"N	80°27'10.294"W
Field Reference Pt			1738625.59	396770.37	39°35'08.382"N	80°25'38.652"W

WELLPATH DATUM

Calculation method	Minimum curvature		1451.73ft
Horizontal Reference Pt	Slot	M07 (KB) to Facility Vertical Datum	1451.73ft
Vertical Reference Pt	M07 (KB)	M07 (KB) to Mean Sea Level	24.00ft
MD Reference Pt	M07 (KB)	M07 (KB) to Mud Line at Slot (Slot 1)	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Origin	339.00°
		Section Azimuth	

RECEIVED
West Virginia Department of
Oil and Gas

August 2 2015

WV Department of
Environmental Protection

10/30/2015



49-02262

Actual Wellpath Report

Shaver IH AWP Proj: 13131'
Page 2 of 10

REFERENCE WELLPATH IDENTIFICATION		Slot	Slot 1
Operator	TRANS ENERGY Inc.	Well	Shaver IH
Atca	Marion County, WV	Wellbore	Shaver IH (AWB)
Field	Marion		
Facility	Shaver Pad		

MD [ft]	Inclination [°]	Azimuth [°]	IVD [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]
0.00	0.000	151.840	0.00	0.00	0.00	0.00	1731369.59	389127.64	39°33'52.097"N	80°27'10.294"W	0.00	0.000	0.00
24.00	0.000	151.840	24.00	0.00	0.00	0.00	1731369.59	389127.64	39°33'52.097"N	80°27'10.294"W	0.00	0.000	0.00
100.00	0.320	151.840	100.00	-0.21	-0.19	0.10	1731369.69	389127.45	39°33'52.097"N	80°27'10.293"W	0.21	151.840	0.42
200.00	0.520	99.740	200.00	-0.72	-0.51	0.68	1731370.27	389127.13	39°33'52.092"N	80°27'10.285"W	0.85	126.907	0.41
300.00	1.010	123.120	299.99	-1.67	-1.07	1.86	1731371.46	389126.57	39°33'52.086"N	80°27'10.270"W	2.15	119.813	0.57
400.00	2.060	121.780	399.95	-3.81	-2.50	4.13	1731373.72	389125.15	39°33'52.072"N	80°27'10.241"W	4.83	121.149	1.05
500.00	3.030	119.220	499.85	-7.27	-4.73	7.97	1731377.56	389122.91	39°33'52.051"N	80°27'10.192"W	9.27	120.721	0.98
600.00	5.520	116.820	599.57	-12.87	-8.19	14.57	1731384.16	389119.45	39°33'52.017"N	80°27'10.107"W	16.71	119.362	2.50
649.00	6.920	115.760	648.28	-16.77	-10.54	19.33	1731388.92	389117.10	39°33'51.994"N	80°27'10.046"W	22.01	118.607	2.87
700.00	7.310	113.740	698.88	-21.29	-13.18	25.06	1731394.65	389114.46	39°33'51.969"N	80°27'09.972"W	28.32	117.741	0.91
800.00	6.620	116.030	798.14	-29.98	-18.27	36.07	1731405.66	389109.37	39°33'51.920"N	80°27'09.831"W	40.43	116.868	0.74
900.00	6.300	116.660	897.51	-38.26	-23.26	46.15	1731415.74	389104.38	39°33'51.872"N	80°27'09.701"W	51.68	116.753	0.33
970.00	5.100	114.850	967.16	-43.33	-26.30	52.41	1731421.99	389101.35	39°33'51.842"N	80°27'09.621"W	58.63	116.646	1.73
1032.00	5.450	120.120	1028.90	-47.60	-28.93	57.45	1731427.04	389098.71	39°33'51.817"N	80°27'09.556"W	64.33	116.728	0.96
1062.00	5.280	120.790	1058.77	-49.79	-30.35	59.87	1731429.46	389097.29	39°33'51.803"N	80°27'09.525"W	67.13	116.883	0.60
1108.00	5.340	120.800	1104.57	-53.14	-32.53	63.53	1731433.12	389095.11	39°33'51.782"N	80°27'09.478"W	71.37	117.116	0.13
1151.00	5.320	118.090	1150.37	-56.43	-34.63	67.25	1731436.84	389093.01	39°33'51.761"N	80°27'09.431"W	75.64	117.248	0.55
1201.00	5.780	115.420	1197.15	-59.79	-36.67	71.31	1731440.89	389090.97	39°33'51.742"N	80°27'09.378"W	80.19	117.217	1.12
1246.00	5.770	117.260	1241.92	-63.12	-38.68	75.37	1731444.95	389088.96	39°33'51.722"N	80°27'09.326"W	84.71	117.170	0.41
1290.00	5.700	115.970	1285.70	-66.37	-40.65	79.30	1731448.88	389086.99	39°33'51.703"N	80°27'09.276"W	89.11	117.143	0.33
1338.00	6.020	112.710	1333.45	-69.85	-42.67	83.76	1731453.35	389084.98	39°33'51.684"N	80°27'09.219"W	94.00	116.994	0.96
1385.00	5.910	115.470	1380.20	-73.31	-44.66	88.22	1731457.80	389082.98	39°33'51.665"N	80°27'09.167"W	98.88	116.850	0.65
1432.00	6.450	115.390	1426.92	-76.97	-46.83	92.79	1731462.37	389080.81	39°33'51.644"N	80°27'09.103"W	103.94	116.781	1.15
1479.00	6.530	113.510	1473.62	-80.76	-49.03	97.62	1731467.21	389078.61	39°33'51.622"N	80°27'09.041"W	109.24	116.668	0.48
1527.00	5.970	108.280	1521.34	-84.25	-50.90	102.50	1731472.08	389076.74	39°33'51.604"N	80°27'08.978"W	114.44	116.410	1.66
1574.00	6.030	111.170	1568.08	-87.46	-52.56	107.12	1731476.70	389075.08	39°33'51.588"N	80°27'08.919"W	119.32	116.136	0.66
1622.00	6.140	114.250	1615.81	-90.97	-54.53	111.81	1731481.40	389073.12	39°33'51.569"N	80°27'08.859"W	124.40	115.996	0.72
1665.00	6.010	112.180	1658.57	-94.15	-56.32	115.99	1731485.58	389071.33	39°33'51.552"N	80°27'08.805"W	128.94	115.899	0.59
1715.00	6.360	111.570	1708.28	-97.81	-58.33	120.99	1731490.58	389069.32	39°33'51.533"N	80°27'08.741"W	134.32	115.737	0.71
1763.00	6.480	113.450	1755.98	-101.51	-60.38	125.95	1731495.53	389067.26	39°33'51.513"N	80°27'08.678"W	139.68	115.613	0.50

RECEIVED
Office of Oil and Gas

AUG 12 2015

WV Department of
Environmental Protection

10/30/2015



Actual Wellpath Report

Shaver III AWP Proj: 13131'

Page 3 of 10

REFERENCE WELLPATH IDENTIFICATION

Operator	TRANS ENERGY Inc.	Slot	Slot 1
Area	Marion County, WV	Well	Shaver III
Field	Marion	Wellbore	Shaver III (AWB)
Facility	Shaver Pad		

49-02262

WELLPATH DATA (179 stations)

MD [ft]	Inclination [°]	Azimuth [°]	IVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dist [ft]	Closure Dir [°]	DL S [ft/100ft]
1811.00	5.690	1803.71	-105.13	-62.49	130.58	1731500.16	389065.16	39°33'51.493"N	80°27'08.618"W	144.76	115.572	1.71	
1859.00	5.490	1851.48	-108.43	-64.38	134.85	1731504.44	389063.27	39°33'51.475"N	80°27'08.563"W	149.43	115.519	0.81	
1905.00	5.880	1897.27	-111.47	-66.08	138.91	1731508.49	389061.57	39°33'51.458"N	80°27'08.511"W	153.82	115.440	0.25	
1951.00	5.260	1943.07	-114.41	-67.70	142.90	1731512.48	389059.95	39°33'51.443"N	80°27'08.460"W	158.12	115.349	0.71	
2000.00	5.190	1988.70	-117.31	-69.19	147.10	1731516.68	389058.45	39°33'51.428"N	80°27'08.406"W	162.56	115.191	0.47	
2047.00	5.450	2038.66	-120.11	-70.60	151.22	1731520.80	389057.04	39°33'51.415"N	80°27'08.354"W	166.89	115.028	0.59	
2094.00	5.420	2085.45	-122.95	-72.03	155.44	1731525.02	389055.61	39°33'51.401"N	80°27'08.300"W	171.32	114.864	0.29	
2140.00	5.940	2131.22	-125.86	-73.49	159.75	1731529.33	389054.16	39°33'51.387"N	80°27'08.244"W	175.84	114.703	1.15	
2189.00	5.740	2179.97	-129.06	-75.11	164.47	1731534.05	389052.54	39°33'51.372"N	80°27'08.184"W	180.81	114.544	0.41	
2240.00	5.760	2230.71	-132.41	-76.85	169.27	1731538.85	389050.79	39°33'51.355"N	80°27'08.122"W	185.90	114.419	0.48	
2284.00	6.120	2274.48	-135.52	-78.57	173.49	1731543.07	389049.08	39°33'51.338"N	80°27'08.068"W	190.45	114.365	0.93	
2333.00	6.200	2323.19	-139.20	-80.66	178.31	1731547.89	389046.99	39°33'51.318"N	80°27'08.006"W	195.70	114.340	0.22	
2378.00	6.300	2367.92	-142.62	-82.59	182.81	1731552.39	389045.06	39°33'51.300"N	80°27'07.949"W	200.60	114.312	0.35	
2423.00	5.970	2412.67	-145.89	-84.38	187.28	1731556.85	389043.27	39°33'51.282"N	80°27'07.891"W	205.41	114.255	0.83	
2473.00	5.860	2462.40	-149.34	-86.23	192.08	1731561.66	389041.41	39°33'51.265"N	80°27'07.830"W	210.55	114.178	0.22	
2524.00	5.820	2513.14	-152.83	-88.11	196.92	1731566.50	389039.54	39°33'51.247"N	80°27'07.768"W	215.73	114.105	0.08	
2568.00	6.320	2566.89	-156.06	-89.93	201.20	1731570.78	389037.72	39°33'51.229"N	80°27'07.713"W	220.38	114.083	1.45	
2617.00	6.540	2605.58	-160.04	-92.29	206.15	1731575.73	389035.35	39°33'51.206"N	80°27'07.649"W	224.87	114.118	0.52	
2665.00	6.690	2651.28	-163.93	-94.63	210.91	1731580.49	389033.02	39°33'51.184"N	80°27'07.588"W	231.17	114.164	0.33	
2713.00	6.930	2700.97	-167.94	-97.03	215.85	1731585.43	389030.61	39°33'51.160"N	80°27'07.525"W	236.66	114.206	1.52	
2757.00	5.630	2744.75	-171.02	-98.77	219.92	1731589.50	389028.88	39°33'51.144"N	80°27'07.473"W	241.08	114.185	1.43	
2805.00	5.270	2792.53	-173.94	-100.24	224.23	1731593.81	389027.40	39°33'51.129"N	80°27'07.417"W	245.62	114.087	0.93	
2852.00	5.190	2839.34	-176.61	-101.53	228.32	1731597.90	389026.11	39°33'51.117"N	80°27'07.365"W	249.88	113.975	0.17	
2897.00	5.020	2884.16	-179.12	-102.75	232.13	1731601.71	389024.90	39°33'51.105"N	80°27'07.316"W	253.86	113.876	0.38	
2947.00	5.150	2933.96	-182.09	-104.36	236.26	1731605.83	389023.29	39°33'51.090"N	80°27'07.263"W	258.28	113.832	1.25	
3086.00	5.170	2972.80	-184.66	-105.90	239.40	1731608.98	389021.74	39°33'51.075"N	80°27'07.223"W	261.78	113.863	0.69	
3089.00	2.046	3075.61	-189.92	-109.89	243.68	1731613.26	389021.76	39°33'51.036"N	80°27'07.168"W	267.31	114.273	4.28	
3119.00	2.530	3105.59	-191.08	-111.07	243.85	1731613.43	389016.58	39°33'51.025"N	80°27'07.165"W	267.96	114.488	1.79	
3213.00	12.400	3198.78	-197.58	-114.01	254.33	1731623.91	389013.64	39°33'50.997"N	80°27'07.031"W	278.72	114.145	12.72	
3308.00	19.590	3290.05	-208.52	-115.71	280.43	1731650.01	389011.94	39°33'50.982"N	80°27'06.698"W	303.37	112.422	7.59	

RECEIVED
Office of Oil and Gas

APR 2 2015

WV Department of
Environmental Protection

10/30/2015



Actual Wellpath Report

Shaver III AWP Proj: 13131'
Page 4 of 10

49.02262

REFERENCE WELLPATH IDENTIFICATION

Operator	TRANS ENERGY Inc.	Slot	Slot 1
Area	Marion County, WV	Well	Shaver III
Field	Marion	Wellbore	Shaver III (AWB)
Facility	Shaver Pad		

WELLPATH DATA (179 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 [°]	M/S [ft/100ft]
3403.00	22.850	99.110	3378.61	-224.23	-119.43	314.56	1731684.14	389008.22	39°33'50.949"N	80°27'06.261"W	336.47	110.790	4.17
3490.00	25.410	105.050	3458.01	-243.69	-126.96	349.28	1731718.85	389000.69	39°33'50.879"N	80°27'05.817"W	371.64	109.975	4.05
3584.00	24.210	102.800	3543.33	-266.29	-136.46	387.53	1731757.12	388991.19	39°33'50.789"N	80°27'05.327"W	410.88	109.378	1.62
3679.00	21.840	99.910	3630.76	-286.20	-143.82	423.96	1731793.53	388983.83	39°33'50.720"N	80°27'04.861"W	447.69	108.739	2.76
3773.00	23.650	96.220	3717.45	-303.81	-148.87	459.93	1731829.50	388978.78	39°33'50.674"N	80°27'04.401"W	483.43	107.936	2.43
3868.00	22.610	89.020	3804.83	-318.78	-150.63	497.14	1731866.70	388977.02	39°33'50.660"N	80°27'03.926"W	519.46	106.856	3.17
3963.00	23.100	89.240	3892.37	-331.48	-150.07	534.04	1731903.59	388977.58	39°33'50.669"N	80°27'03.455"W	554.72	105.696	0.52
4057.00	22.490	88.500	3979.03	-343.86	-149.35	570.45	1731940.00	388978.30	39°33'50.680"N	80°27'02.990"W	589.67	104.672	0.72
4152.00	23.830	94.910	4066.39	-358.32	-150.52	607.74	1731977.29	388977.13	39°33'50.673"N	80°27'02.514"W	626.10	103.911	3.00
4246.00	26.160	95.650	4151.58	-375.91	-154.18	647.28	1732016.84	388973.47	39°33'50.641"N	80°27'02.009"W	665.40	103.398	2.50
4341.00	26.190	105.030	4236.87	-397.64	-161.68	688.39	1732057.94	388965.97	39°33'50.571"N	80°27'01.483"W	707.12	103.217	4.14
4436.00	23.440	104.520	4323.09	-420.95	-171.85	726.94	1732096.94	388955.80	39°33'50.474"N	80°27'00.989"W	746.98	103.300	2.90
4531.00	20.020	102.910	4411.33	-441.00	-180.22	761.09	1732130.64	388947.43	39°33'50.395"N	80°27'00.552"W	782.14	103.322	3.65
4626.00	21.430	101.460	4500.18	-459.39	-187.30	793.95	1732163.50	388940.35	39°33'50.329"N	80°27'00.132"W	815.75	103.274	1.58
4720.00	25.080	106.680	4586.54	-480.79	-196.44	829.88	1732199.42	388931.22	39°33'50.242"N	80°26'59.672"W	852.81	103.317	4.46
4815.00	25.990	110.680	4672.27	-506.94	-209.57	868.65	1732238.19	388918.09	39°33'50.116"N	80°26'59.175"W	893.57	103.564	2.05
4909.00	22.650	110.220	4757.91	-532.57	-223.10	904.91	1732274.45	388904.55	39°33'49.986"N	80°26'58.710"W	933.01	103.850	3.56
5004.00	20.000	107.430	4846.40	-554.73	-234.29	937.58	1732307.12	388893.36	39°33'49.879"N	80°26'58.291"W	966.41	104.030	2.99
5099.00	18.980	104.730	4935.96	-573.85	-243.09	968.03	1732337.56	388884.57	39°33'49.796"N	80°26'57.901"W	998.08	104.096	1.43
5194.00	19.680	93.580	5025.63	-589.43	-248.02	998.94	1732368.47	388879.64	39°33'49.750"N	80°26'57.506"W	1029.27	103.943	3.95
5288.00	21.170	95.330	5113.72	-603.64	-250.58	1031.64	1732401.17	388877.08	39°33'49.728"N	80°26'57.088"W	1061.64	103.652	1.71
5384.00	22.310	92.210	5202.89	-618.81	-253.21	1067.10	1732436.62	388874.45	39°33'49.706"N	80°26'56.635"W	1096.73	103.349	1.44
5421.00	20.590	91.920	5237.33	-624.22	-253.82	1080.61	1732450.14	388873.83	39°33'49.701"N	80°26'56.463"W	1110.02	103.218	4.82
5517.00	22.250	96.670	5326.70	-639.24	-256.50	1115.54	1732485.06	388871.16	39°33'49.678"N	80°26'56.016"W	1144.65	102.949	2.50
5609.00	22.540	100.040	5411.77	-656.42	-261.60	1150.20	1732519.73	388866.06	39°33'49.632"N	80°26'55.573"W	1179.58	102.813	1.43
5704.00	22.620	103.950	5499.49	-676.27	-269.18	1185.87	1732555.39	388858.48	39°33'49.560"N	80°26'55.117"W	1216.03	102.789	1.58
5799.00	22.340	103.620	5587.27	-697.00	-277.83	1221.14	1732590.66	388849.83	39°33'49.479"N	80°26'54.665"W	1252.35	102.818	0.32
5893.00	20.330	97.310	5674.84	-714.89	-284.12	1254.71	1732624.23	388843.54	39°33'49.420"N	80°26'54.236"W	1286.48	102.759	3.24
5987.00	22.660	91.150	5762.30	-729.47	-286.56	1289.02	1732658.53	388841.10	39°33'49.399"N	80°26'53.797"W	1320.49	102.533	3.45
6081.00	22.320	91.860	5849.16	-743.23	-287.50	1324.96	1732694.47	388840.16	39°33'49.394"N	80°26'53.338"W	1355.80	102.243	0.46

RECEIVED
Office of Oil and Gas

AUG 12 2015

WV Department of
Environmental Protection



49-02262

Actual Wellpath Report

Shaver III AWP Proj: 13131'
Page 5 of 10

REFERENCE WELLPATH IDENTIFICATION

Operator	TRANS ENERGY Inc.	Slot	Slot 1
Area	Marion County, WV	Well	Shaver III
Field	Marion	Wellbore	Shaver III (AWB)
Facility	Shaver Pad		

WELLPATH DATA (179 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]	DLS [ft/100ft]
6175.00	22.600	93.750	5936.03	-757.73	-289.26	1360.83	1732730.34	38838.40	39°33'49.380"N	80°26'52.880"W	1391.23	0.82
6268.00	22.250	98.410	6022.00	-773.86	-293.01	1396.08	1732765.59	38834.65	39°33'49.347"N	80°26'52.429"W	1426.50	1.95
6562.00	23.490	100.110	6108.61	-792.28	-298.90	1432.13	1732801.63	38828.76	39°33'49.292"N	80°26'51.968"W	1462.99	1.49
6458.00	23.030	103.140	6196.81	-812.70	-306.53	1469.25	1732838.76	38821.13	39°33'49.221"N	80°26'51.493"W	1500.89	1.34
6551.00	21.280	102.160	6282.94	-832.14	-314.22	1503.47	1732872.97	38813.44	39°33'49.148"N	80°26'51.056"W	1535.95	1.92
6644.00	21.630	101.690	6369.50	-850.63	-321.25	1536.75	1732906.25	38806.42	39°33'49.082"N	80°26'50.630"W	1569.97	0.42
6738.00	22.470	108.190	6456.63	-871.34	-330.36	1570.79	1732940.28	38797.30	39°33'48.996"N	80°26'50.194"W	1605.15	2.74
6832.00	22.290	104.490	6543.56	-893.04	-340.43	1605.12	1732974.61	38787.23	39°33'48.900"N	80°26'49.754"W	1640.82	1.51
6926.00	22.720	98.520	6630.41	-912.34	-347.58	1640.33	1733009.82	38780.08	39°33'48.833"N	80°26'49.304"W	1676.75	2.47
7021.00	22.800	95.030	6718.02	-929.46	-351.92	1676.81	1733046.30	38775.75	39°33'48.794"N	80°26'48.837"W	1713.34	1.42
7116.00	22.350	94.180	6805.74	-945.22	-354.85	1713.16	1733082.65	38772.82	39°33'48.769"N	80°26'48.373"W	1749.53	0.59
7210.00	22.820	96.000	6892.53	-961.10	-358.05	1749.12	1733118.60	38769.61	39°33'48.741"N	80°26'47.913"W	1785.39	0.90
7303.00	22.320	98.120	6978.41	-977.88	-362.43	1784.54	1733154.02	38765.23	39°33'48.701"N	80°26'47.460"W	1820.97	1.03
7397.00	21.250	100.790	7065.70	-995.54	-368.14	1818.94	1733188.42	38759.32	39°33'48.648"N	80°26'47.020"W	1855.82	1.55
7492.00	17.790	91.710	7155.24	-1010.22	-371.80	1850.38	1733219.86	38755.86	39°33'48.616"N	80°26'46.619"W	1887.36	4.83
7540.00	18.660	79.590	7200.85	-1014.47	-370.63	1865.27	1733234.74	38757.03	39°33'48.629"N	80°26'46.239"W	1901.73	8.09
7586.00	21.550	73.950	7244.05	-1016.55	-366.97	1880.63	1733250.10	38760.70	39°33'48.666"N	80°26'46.233"W	1916.10	7.56
7631.00	25.100	63.640	7285.38	-1016.37	-360.44	1897.13	1733266.61	38767.22	39°33'48.733"N	80°26'46.023"W	1931.07	12.00
7681.00	25.350	51.660	7330.64	-1012.19	-349.08	1915.04	1733284.52	38778.58	39°33'48.847"N	80°26'45.796"W	1946.60	10.21
7728.00	21.300	38.150	7373.82	-1004.80	-336.11	1928.22	1733297.70	38791.55	39°33'48.976"N	80°26'45.629"W	1957.30	14.23
7774.00	18.710	25.560	7417.06	-995.44	-322.88	1936.57	1733306.05	38804.78	39°33'49.108"N	80°26'45.525"W	1963.30	10.90
7822.00	20.140	16.100	7462.34	-983.55	-307.99	1942.19	1733311.66	38819.67	39°33'49.256"N	80°26'45.455"W	1966.46	7.19
7869.00	23.490	11.490	7505.97	-969.19	-291.03	1946.30	1733315.77	38836.63	39°33'49.424"N	80°26'45.405"W	1967.94	8.00
7917.00	27.990	4.630	7549.21	-950.95	-270.42	1949.11	1733318.59	38857.24	39°33'49.628"N	80°26'45.372"W	1967.78	11.23
7964.00	31.580	357.200	7590.01	-929.31	-247.11	1949.40	1733318.88	38880.54	39°33'49.858"N	80°26'45.371"W	1965.00	10.94
8009.00	36.930	352.120	7627.20	-904.92	-221.93	1946.97	1733316.45	38890.52	39°33'50.107"N	80°26'45.405"W	1959.58	13.47
8058.00	42.520	353.780	7664.87	-874.55	-190.86	1943.16	1733312.63	38896.79	39°33'50.413"N	80°26'45.458"W	1952.51	11.61
8108.00	49.090	357.690	7699.71	-840.27	-155.14	1940.56	1733310.04	38892.51	39°33'50.766"N	80°26'45.496"W	1946.75	14.28
8153.00	51.290	359.150	7727.60	-806.99	-119.86	1939.61	1733309.08	38907.79	39°33'51.115"N	80°26'45.513"W	1943.30	11.83
8198.00	59.120	359.010	7752.30	-771.67	-82.26	1939.00	1733308.47	38904.39	39°33'51.486"N	80°26'45.526"W	1940.74	10.74

RECEIVED
Office of Oil and Gas

Aug 22 2015

WV Department of
Environmental Protection

10/30/2015



49-02262

Actual Wellpath Report
Shaver IH AWP Proj: 13131'
Page 6 of 10

REFERENCE WELLPATH IDENTIFICATION

Operator	TRANS ENERGY Inc.	Slot	Slot 1
Area	Marion County, WV	Well	Shaver IH
Field	Marion	Wellbore	Shaver IH (AWB)
Facility	Shaver Pad		

WELLPATH DATA (179 Stations)

ID	Inclination	Altitude	EVD	Vert Svc	North	East	Grid East	Grid North	Latitude	Longitude	Closest Dist	Closest Dir	DLS
[ft]	[°]	[ft]	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]	[°]	[°]	[ft]	[°]	[ft/1000]
8247.00	65.320	358.780	7775.12	-730.93	-38.94	1938.16	1733307.64	389088.71	39°33'51.91"N	80°26'45.54"W	1938.55	91.151	12.66
8293.00	71.990	357.140	7791.86	-690.43	3.85	1936.62	1733306.10	389131.49	39°33'52.33"N	80°26'45.56"W	1936.63	89.886	14.87
8342.00	76.370	353.030	7805.22	-645.15	50.80	1932.57	1733302.04	389178.44	39°33'52.80"N	80°26'45.62"W	1933.24	88.494	12.04
8388.00	79.140	349.050	7814.98	-601.19	95.19	1925.56	1733295.04	389222.83	39°33'53.23"N	80°26'45.72"W	1927.91	87.170	10.38
8437.00	80.210	344.880	7823.76	-553.46	142.14	1914.69	1733284.16	389269.77	39°33'53.70"N	80°26'45.86"W	1919.96	85.754	8.65
8484.00	81.850	340.430	7831.09	-507.15	186.44	1900.85	1733270.32	389314.07	39°33'54.13"N	80°26'46.04"W	1909.97	84.398	9.98
8532.00	81.760	337.680	7837.94	-459.64	230.81	1883.87	1733253.34	389358.43	39°33'54.57"N	80°26'46.27"W	1897.95	83.015	5.67
8580.00	79.850	337.320	7845.61	-412.28	274.58	1865.73	1733235.21	389402.21	39°33'55.00"N	80°26'46.50"W	1885.83	81.628	4.05
8627.00	82.010	337.540	7853.02	-365.88	317.44	1847.92	1733217.40	389445.06	39°33'55.42"N	80°26'46.74"W	1874.99	80.253	4.62
8672.00	88.310	338.370	7856.81	-321.07	358.98	1831.10	1733200.58	389486.60	39°33'55.83"N	80°26'46.96"W	1865.96	78.908	14.12
8721.00	90.090	340.050	7857.49	-272.08	404.78	1813.71	1733183.19	389532.40	39°33'56.26"N	80°26'47.19"W	1858.33	77.419	4.99
8769.00	90.090	342.680	7857.35	-178.17	493.84	1783.68	1733163.16	389621.45	39°33'57.16"N	80°26'47.58"W	1850.78	74.524	2.80
8810.00	90.000	344.490	7857.27	-83.48	584.97	1756.83	1733126.32	389712.57	39°33'58.06"N	80°26'47.94"W	1851.66	71.584	1.91
9005.00	90.090	343.540	7857.20	11.16	676.29	1730.67	1733100.16	389803.89	39°33'58.96"N	80°26'48.28"W	1858.12	68.656	1.00
9100.00	89.970	341.780	7857.15	105.96	766.97	1702.36	1733071.85	389894.57	39°33'59.85"N	80°26'48.66"W	1867.16	65.747	1.86
9195.00	89.940	341.530	7857.22	200.86	857.14	1672.46	1733041.95	389984.73	39°34'00.74"N	80°26'49.05"W	1879.31	62.865	0.27
9290.00	90.030	340.750	7857.25	295.79	947.04	1641.75	1733011.24	390074.63	39°34'01.62"N	80°26'49.46"W	1895.32	60.022	0.83
9384.00	90.150	339.870	7857.10	389.76	1035.54	1610.08	1732979.57	390163.12	39°34'02.49"N	80°26'49.87"W	1914.34	57.252	0.94
9479.00	90.060	334.960	7856.93	484.70	1123.23	1573.61	1732943.10	390250.81	39°34'03.36"N	80°26'50.34"W	1933.36	54.481	5.17
9574.00	89.940	336.220	7856.93	579.53	1209.74	1534.35	1732903.84	390337.31	39°34'04.21"N	80°26'50.86"W	1953.89	51.746	1.33
9669.00	89.970	337.440	7857.00	674.46	1297.07	1496.97	1732866.47	390424.64	39°34'05.07"N	80°26'51.35"W	1980.74	49.092	1.28
9762.00	89.970	335.530	7857.05	767.36	1382.35	1459.86	1732829.37	390509.91	39°34'05.91"N	80°26'51.81"W	2010.49	46.562	2.05
9857.00	89.970	333.760	7857.10	862.09	1469.18	1419.18	1732788.69	390595.75	39°34'06.75"N	80°26'52.37"W	2041.98	44.028	1.86
9952.00	89.970	340.170	7857.15	956.98	1555.57	1382.03	1732751.54	390683.12	39°34'07.61"N	80°26'52.85"W	2080.82	41.619	6.75
10047.00	90.220	346.230	7856.99	1051.68	1646.47	1354.59	1732724.09	390774.02	39°34'08.51"N	80°26'53.22"W	2132.08	39.445	6.38
10142.00	90.250	348.040	7856.60	1145.72	1739.09	1333.43	1732702.95	390866.62	39°34'09.42"N	80°26'53.53"W	2191.45	37.479	1.91
10236.00	90.120	350.050	7856.30	1238.27	1831.37	1315.57	1732685.08	390958.90	39°34'10.33"N	80°26'53.74"W	2254.91	35.692	2.14
10331.00	90.230	350.020	7856.02	1331.51	1924.93	1299.13	1732668.65	391052.46	39°34'11.25"N	80°26'53.96"W	2322.31	34.015	0.11
10426.00	90.030	347.200	7855.81	1425.17	2018.05	1280.37	1732649.89	391145.57	39°34'12.17"N	80°26'54.21"W	2389.96	32.393	2.98
10521.00	90.250	347.280	7855.58	1519.19	2110.71	1259.39	1732628.91	391238.22	39°34'13.08"N	80°26'54.49"W	2457.87	30.823	0.25

RECEIVED
Office of Oil and Gas

AUG 12 2015

WV Department of
Environmental Protection

10/30/2015



Actual Wellpath Report

Shaver III AWP Proj: 13131'
Page 7 of 10

REFERENCE WELLPATH IDENTIFICATION

Operator	TRANS ENERGY Inc.	Slot	Slot 1
Area	Marion County, WV	Well	Shaver III
Field	Marion	Wellbore	Shaver III (AWB)
Facility	Shaver Pad		

49-02262

WELLPATH DATA (179 stations)

ID	Depth [ft]	Inclination [°]	Azimuth [°]	IVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Chasurs Dist [ft]	Chasurs Dir [°]	DLS [ft/1000]
10616.00	90.150	349.530	7855.24	1612.91	2203.76	1240.30	1732609.81	391331.27	39°34'14.005"N	80°26'54.755"W	2528.81	29.371	2.37	
10711.00	90.120	350.800	7855.02	1706.11	2297.36	1206.67	1732593.59	391424.87	39°34'14.929"N	80°26'54.975"W	2603.12	28.049	1.34	
10806.00	90.090	348.060	7854.85	1799.53	2390.74	1224.05	1732576.16	391518.24	39°34'15.850"N	80°26'55.210"W	2677.99	26.781	2.88	
10900.00	90.090	346.110	7854.70	1892.59	2482.36	1185.64	1732555.16	391609.85	39°34'16.753"N	80°26'55.491"W	2750.97	25.530	2.07	
10995.00	90.120	344.590	7854.53	1987.00	2574.27	1161.61	1732531.13	391701.75	39°34'17.659"N	80°26'55.810"W	2824.22	24.287	1.60	
11088.00	90.120	342.850	7854.33	2079.68	2663.54	1135.54	1732505.06	391791.02	39°34'18.538"N	80°26'56.155"W	2895.49	23.090	1.87	
11182.00	90.130	338.120	7854.11	2173.62	2752.11	1104.15	1732473.67	391879.59	39°34'19.410"N	80°26'56.567"W	2965.34	21.861	5.03	
11277.00	90.120	335.050	7853.88	2268.53	2839.28	1066.40	1732445.93	391966.75	39°34'20.268"N	80°26'57.061"W	3032.94	20.586	3.23	
11371.00	90.060	335.310	7853.74	2362.32	2924.59	1026.95	1732396.47	392052.06	39°34'21.107"N	80°26'57.577"W	3099.66	19.348	0.28	
11465.00	89.940	333.640	7853.74	2456.02	3009.42	986.44	1732355.97	392136.88	39°34'21.941"N	80°26'58.105"W	3166.96	18.148	1.76	
11561.00	90.120	330.260	7853.69	2551.28	3094.13	941.30	1732310.84	392221.58	39°34'22.773"N	80°26'58.693"W	3234.14	16.921	3.53	
11655.00	89.970	336.330	7853.61	2644.77	3178.06	899.08	1732268.62	392305.51	39°34'23.599"N	80°26'59.244"W	3302.79	15.796	6.46	
11750.00	90.130	338.520	7853.51	2739.73	3265.78	862.61	1732232.15	392393.22	39°34'24.462"N	80°26'59.721"W	3377.78	14.796	2.31	
11844.00	90.000	339.240	7853.39	2833.73	3353.46	828.74	1732198.28	392480.90	39°34'25.325"N	80°27'00.165"W	3454.35	13.881	0.78	
11938.00	90.120	341.010	7853.29	2927.71	3441.86	796.79	1732166.33	392569.29	39°34'26.195"N	80°27'00.585"W	3532.88	13.034	1.89	
12033.00	90.180	340.540	7853.04	3022.66	3531.56	765.51	1732135.03	392658.99	39°34'27.078"N	80°27'00.997"W	3613.57	12.230	0.50	
12128.00	90.060	339.550	7852.84	3117.65	3620.86	733.09	1732102.63	392748.28	39°34'27.957"N	80°27'01.423"W	3694.32	11.446	1.05	
12223.00	90.180	339.140	7852.65	3212.64	3709.75	699.58	1732069.12	392837.17	39°34'28.832"N	80°27'01.863"W	3775.13	10.679	0.45	
12317.00	90.280	337.120	7852.27	3306.63	3796.98	664.56	1732034.11	392924.39	39°34'29.691"N	80°27'02.322"W	3854.70	9.928	2.15	
12412.00	90.310	335.920	7851.78	3401.53	3884.11	626.71	1731996.27	393011.52	39°34'30.548"N	80°27'02.817"W	3934.35	9.166	1.26	
12507.00	90.310	335.340	7851.26	3496.37	3970.64	587.51	1731957.07	393098.04	39°34'31.399"N	80°27'03.329"W	4013.87	8.417	0.61	
12602.00	90.220	336.680	7850.83	3591.24	4057.43	548.89	1731918.45	393184.83	39°34'32.252"N	80°27'03.834"W	4094.39	7.704	1.41	
12697.00	90.310	336.920	7850.39	3686.17	4144.75	511.47	1731881.03	393272.14	39°34'33.111"N	80°27'04.324"W	4176.19	7.035	0.27	
12792.00	90.280	337.130	7849.90	3781.11	4232.21	474.39	1731843.95	393359.60	39°34'33.972"N	80°27'04.809"W	4258.72	6.396	0.22	
12887.00	90.120	339.040	7849.57	3876.09	4320.34	438.93	1731808.49	393447.72	39°34'34.839"N	80°27'05.274"W	4342.58	5.801	2.02	
12981.00	90.280	341.280	7849.24	3970.06	4408.76	407.03	1731776.60	393536.13	39°34'35.710"N	80°27'05.693"W	4427.51	5.275	2.39	
13075.00	90.120	342.530	7848.91	4063.94	4498.11	377.83	1731747.40	393625.48	39°34'36.590"N	80°27'06.078"W	4513.95	4.801	1.34	
13107.00	90.220	342.060	7848.81	4095.89	4528.59	368.10	1731737.67	393655.96	39°34'36.890"N	80°27'06.207"W	4543.53	4.647	1.50	
13131.00	90.220	342.060	7848.72	4119.85	4551.42	360.71	1731730.28	393678.79	39°34'37.115"N	80°27'06.304"W	4565.70	4.531	0.08	

RECEIVED
Office of Oil and Gas
AUG 12 2015
WV Department of
Environmental Protection



Actual Wellpath Report
Shaver III AWP Proj: 13131'
Page 8 of 10

REFERENCE WELLPATH IDENTIFICATION

Operator	TRANS ENERGY Inc.	Slot	Slot 1
Area	Marion County, WV	Well	Shaver III
Field	Marion	Wellbore	Shaver III (AWB)
Facility	Shaver Pad		

TARGETS

Name	MID [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
POINT A		1451.73	-525.46	2938.12	1734307.53	388602.22	39°33'47.210"N	80°26'32.710"W	point
POINT B		1451.73	-84.35	2944.32	1734313.73	389043.30	39°33'51.570"N	80°26'32.690"W	point
POINT C		1451.73	1616.29	1531.31	1732900.81	390743.83	39°34'08.230"N	80°26'50.960"W	point
POINT D		1451.73	1332.35	1206.43	1732575.95	390459.91	39°34'05.390"N	80°26'55.070"W	point
POINT E		1451.73	2616.64	801.95	1732171.50	391744.12	39°34'18.040"N	80°27'00.408"W	point
POINT F		1451.73	4566.97	156.57	1731526.16	393604.34	39°34'37.247"N	80°27'08.913"W	point
POINT G		1451.73	5210.02	1409.16	1732778.66	394337.35	39°34'43.733"N	80°26'53.004"W	point
Shaver III LP Rev.3		7838.00	292.00	1857.00	1733226.48	389419.62	39°33'55.176"N	80°26'46.623"W	point
Shaver III PRHU Rev.2		7853.92	4551.00	348.53	1731718.10	393678.37	39°34'37.109"N	80°27'06.460"W	point

RECEIVED
Office of Oil and Gas

AUG 12 2015

WV Department of
Environmental Protection

Actual Wellpath Report
 Shaver IH AWP Proj: 13131'
 Page 9 of 10



49.02262

REFERENCE WELLPATH IDENTIFICATION

Operator	TRANS ENERGY Inc.	Slot	Slot 1
Area	Marion County, WV	Well	Shaver IH
Field	Marion	Wellbore	Shaver IH (AWB)
Facility	Shaver Pad		

WELLPATH COMPOSITION - Ref Wellbore: Shaver IH (AWB) Ref Wellpath: Shaver IH AWP Proj: 13131'

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
24.00	649.00	Generic gyro - northseeking (Standard)	01_MS Survey SKG Gyro 100-649'	Shaver IH (AWB)
649.00	970.00	Generic gyro - northseeking (Standard)	02_MS Survey Rate Gyro 700-970'	Shaver IH (AWB)
970.00	2986.00	NavTrak (MagCort)	03_BH NavTrak <12-1-4"> (1032'-2986') Proj:3044'	Shaver IH (AWB)
2986.00	3403.00	NavTrak (AT Curve Short Spaced)	04_BH AT Curve <8-3-4"> (3089'-3403')	Shaver IH (AWB)
3403.00	5384.00	NavTrak (Standard)	05_BH LCP MWD <8-3-4"> (3490'-5384')	Shaver IH (AWB)
5384.00	13107.00	NavTrak (AT Curve Short Spaced)	06_BH AT Curve <8-3-4"> (5421'-13107')	Shaver IH (AWB)
13107.00	13131.00	Blind Drilling (std)	Projection to bit	Shaver IH (AWB)

RECEIVED
 Office of Oil and Gas
 AUG 12 2015
 WV Department of
 Environmental Protection



Actual Wellpath Report
Shaver III AWP Proj: 13131'
Page 10 of 10

49-02262

REFERENCE WELLPATH IDENTIFICATION

Operator	Area	Field	Facility	Slot	Well	Wellbore	Slot 1
TRANS ENERGY Inc.	Marion County, WV	Marion	Shaver Pad	Well	Wellbore		Shaver III
							Shaver III (AWB)

COMMENTS

Wellpath general comments
API: 47-049-02262-0000
BHH Job #: 6514895
Reg: Nabors M07
Duration: 07/17/2014 -09/15/2014
MS Survey SRG Gyro 100'-649'
MS Survey Rate Gyro 700'-900'
BHH NaviTrak <12 1/4"> 1032'-2986'
BHH AT Curve <8 3/4"> 3089'-3403'
BHH LCP MWD <8 3/4"> 3490'-5384'
BHH AT Curve <8 3/4"> 5421'-13107'
TD Projected: 13131'

RECEIVED
Office of Oil and Gas

AUG 12 2015

WV Department of
Environmental Protection

10/30/2015