

103.02944



Company: Trans Energy Inc.
 Site: Blackshere Heirs
 Well: 201H
 Project: Wetzel County, West Virginia (NAD 83)
 Rig Name: H&P 285



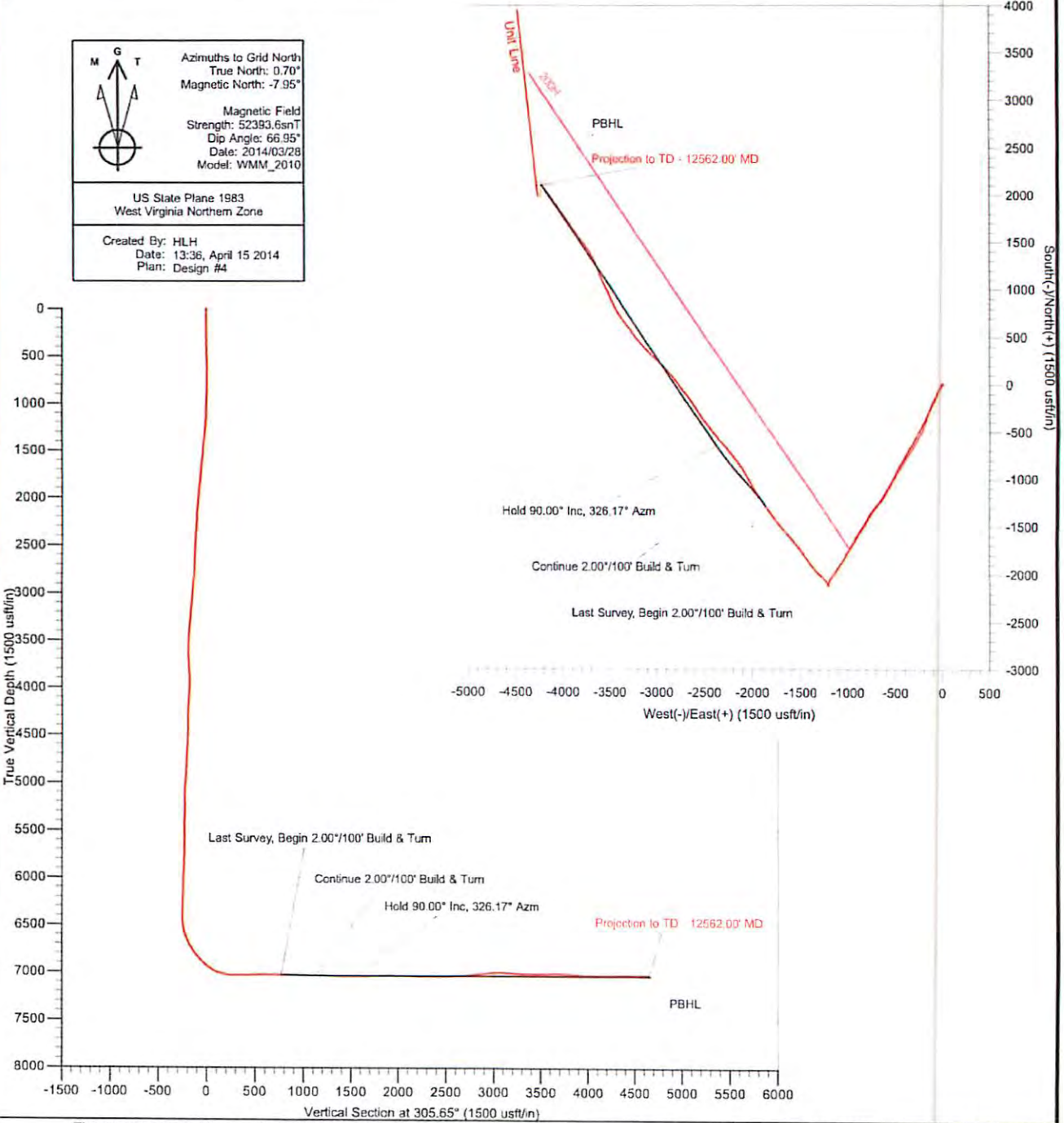
ANNOTATIONS								
MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation
8414.00	89.80	324.60	7024.13	-1281.45	-1863.53	767.42	0.00	Last Survey, Begin 2.00°/100' Build & Turn
8780.59	89.01	317.25	7031.13	-997.10	-2094.40	1120.76	366.52	Continue 2.00°/100' Build & Turn
9228.11	90.00	326.17	7035.00	-846.22	-2371.40	1550.35	814.02	Hold 90.00° Inc, 326.17° Azm
12545.11	90.00	326.17	7035.00	2109.19	-4218.08	4656.88	4131.02	PBHL

Azimuths to Grid North
 True North: 0.70°
 Magnetic North: -7.95°

Magnetic Field
 Strength: 52393.6snT
 Dip Angle: 66.95°
 Date: 2014/03/28
 Model: WMM_2010

US State Plane 1983
 West Virginia Northern Zone

Created By: HLH
 Date: 13:36, April 15 2014
 Plan: Design #4



The customer should only rely on this document after independently verifying all paths, targets, coordinates, lease and hard lines represented. Any decisions made or wells drilled utilizing this or any other information supplied by MS Energy are at the sole risk and responsibility of the customer. MS Energy is not responsible for the accuracy of this schematic or the information contained herein.

Received
 Office of Oil & Gas
 JAN 23 2015

02/06/2015

103.02944



Trans Energy Inc.

Wetzel County, West Virginia (NAD 83)

Blackshere Heirs

201H

Wellbore #1

Survey: MS MWD

Survey Report - Geographic

15 April, 2014

Received
Office of Oil & Gas

JAN 23 2015



02/06/2015

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Survey Report - Geographic



Company:	Trans Energy Inc.	Local Co-ordinate Reference:	Well 201H
Project:	Wetzel County, West Virginia (NAD 83)	TVD Reference:	WELL @ 892.10usft (H&P 285)
Site:	Blackshere Heirs	MD Reference:	WELL @ 892.10usft (H&P 285)
Well:	201H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM 5000 Conroe Server

Project	Wetzel County, West Virginia (NAD 83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	West Virginia Northern Zone		

Well	201H					
Well Position	+N/-S	0.00 usft	Northing:	358,400.96 usft	Latitude:	39.4788611
	+E/-W	0.00 usft	Easting:	1,660,334.65 usft	Longitude:	-80.5917844
Position Uncertainty	0.00 usft		Wellhead Elevation:	usft	Ground Level:	872.10 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	WMM_2010	2014/03/28	-8.64	66.95	52,394

Design	Surveys				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.00	0.00	0.00	305.65	

Survey Program	Date	2014/04/15			
From	To	Survey (Wellbore)	Tool Name	Description	
(usft)	(usft)				
506.00	12,562.00	MS MWD (Wellbore #1)	MWD	MWD - Standard	

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	358,400.96	1,660,334.65	39.4788611	-80.5917844
506.00	1.60	4.40	505.93	7.04	0.54	358,408.00	1,660,335.19	39.4788805	-80.5917828
598.00	1.90	282.10	597.90	8.64	-0.85	358,409.60	1,660,333.80	39.4788848	-80.5917878
689.00	3.10	210.20	688.83	6.83	-3.56	358,407.79	1,660,331.09	39.4788798	-80.5917974
783.00	5.50	213.40	782.56	0.88	-7.32	358,401.83	1,660,327.33	39.4788633	-80.5918104
878.00	8.00	210.70	876.90	-8.61	-13.21	358,392.35	1,660,321.45	39.4788371	-80.5918308
972.00	10.90	190.80	969.64	-22.97	-18.21	358,377.99	1,660,316.44	39.4787975	-80.5918480
1,066.00	14.20	206.50	1,061.40	-42.03	-25.03	358,358.93	1,660,309.62	39.4787449	-80.5918713
1,161.00	16.80	206.00	1,152.94	-64.80	-36.25	358,336.15	1,660,298.41	39.4786820	-80.5919100
1,255.00	18.60	200.20	1,242.49	-91.09	-47.38	358,309.87	1,660,287.27	39.4786095	-80.5919484
1,349.00	21.90	204.90	1,330.68	-121.07	-59.94	358,279.89	1,660,274.71	39.4785268	-80.5919916
1,444.00	25.00	203.50	1,417.82	-155.55	-75.41	358,245.40	1,660,259.24	39.4784316	-80.5920449
1,538.00	26.70	206.20	1,502.42	-192.72	-92.65	358,208.24	1,660,242.00	39.4783290	-80.5921044
1,632.00	29.00	205.10	1,585.52	-232.31	-111.65	358,168.65	1,660,223.00	39.4782197	-80.5921699
1,727.00	30.10	206.50	1,668.17	-274.48	-132.05	358,126.47	1,660,202.61	39.4781032	-80.5922404
1,821.00	31.40	206.20	1,748.95	-317.55	-153.38	358,083.41	1,660,181.28	39.4779842	-80.5923141
1,916.00	30.30	202.50	1,830.51	-361.90	-173.47	358,039.05	1,660,161.18	39.4778618	-80.5923834
2,010.00	28.90	208.10	1,912.26	-403.86	-193.25	357,997.10	1,660,141.40	39.4777460	-80.5924516
2,104.00	30.90	208.10	1,993.74	-445.15	-215.40	357,955.81	1,660,119.25	39.4776319	-80.5925283

103.02944



Survey Report - Geographic



Company:	Trans Energy Inc.	Local Co-ordinate Reference:	Well 201H
Project:	Wetzell County, West Virginia (NAD 83)	TVD Reference:	WELL @ 892.10usft (H&P 285)
Site:	Blackshere Heirs	MD Reference:	WELL @ 892.10usft (H&P 285)
Well:	201H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM 5000 Conroe Server

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
2,199.00	31.00	207.80	2,075.22	-488.27	-238.37	357,912.69	1,660,096.28	39.4775127	-80.5926078
2,293.00	30.50	208.10	2,156.00	-530.73	-260.90	357,870.23	1,660,073.75	39.4773954	-80.5926858
2,387.00	26.90	209.10	2,238.44	-570.36	-282.48	357,830.60	1,660,052.17	39.4772859	-80.5927605
2,482.00	26.60	208.80	2,323.27	-607.78	-303.18	357,793.18	1,660,031.47	39.4771825	-80.5928323
2,576.00	26.70	209.80	2,407.29	-644.55	-323.81	357,756.41	1,660,010.84	39.4770809	-80.5929038
2,671.00	26.80	210.90	2,492.12	-681.44	-345.42	357,719.52	1,659,989.23	39.4769788	-80.5929787
2,765.00	27.30	211.20	2,575.84	-718.07	-367.47	357,682.89	1,659,967.18	39.4768776	-80.5930552
2,860.00	28.90	211.20	2,659.64	-756.34	-390.65	357,644.62	1,659,944.00	39.4767717	-80.5931357
2,954.00	30.10	210.00	2,741.45	-796.18	-414.20	357,604.78	1,659,920.45	39.4766616	-80.5932174
3,048.00	29.60	210.30	2,822.98	-836.64	-437.70	357,564.32	1,659,896.95	39.4765497	-80.5932989
3,143.00	28.40	207.70	2,906.07	-876.90	-460.04	357,524.06	1,659,874.61	39.4764384	-80.5933763
3,237.00	26.60	205.40	2,989.45	-915.71	-479.46	357,485.25	1,659,855.19	39.4763312	-80.5934434
3,319.00	25.40	201.80	3,063.15	-948.63	-493.87	357,452.33	1,659,840.79	39.4762404	-80.5934931
3,414.00	27.70	204.80	3,148.13	-987.59	-510.70	357,413.36	1,659,823.95	39.4761329	-80.5935510
3,508.00	29.70	208.30	3,230.59	-1,027.94	-530.90	357,373.02	1,659,803.75	39.4760214	-80.5936208
3,603.00	30.60	205.90	3,312.74	-1,070.41	-552.62	357,330.55	1,659,782.03	39.4759041	-80.5936959
3,697.00	30.80	212.60	3,393.59	-1,112.22	-576.05	357,288.74	1,659,758.60	39.4757885	-80.5937771
3,791.00	28.70	206.10	3,475.21	-1,152.78	-598.95	357,248.18	1,659,735.70	39.4756764	-80.5938565
3,886.00	26.90	211.60	3,559.26	-1,191.58	-620.25	357,209.38	1,659,714.40	39.4755692	-80.5939303
3,980.00	27.70	217.10	3,642.80	-1,227.12	-644.58	357,173.84	1,659,690.07	39.4754708	-80.5940149
4,074.00	27.30	224.10	3,726.20	-1,260.03	-672.77	357,140.92	1,659,661.88	39.4753795	-80.5941133
4,169.00	27.60	222.90	3,810.51	-1,291.80	-702.91	357,109.16	1,659,631.74	39.4752913	-80.5942188
4,263.00	29.30	218.70	3,893.16	-1,325.71	-732.12	357,075.25	1,659,602.53	39.4751972	-80.5943208
4,357.00	29.60	212.10	3,975.04	-1,363.34	-758.84	357,037.62	1,659,575.81	39.4750930	-80.5944138
4,451.00	24.80	207.70	4,058.63	-1,400.48	-780.36	357,000.48	1,659,554.29	39.4749903	-80.5944884
4,546.00	26.70	208.40	4,144.19	-1,436.90	-799.77	356,964.06	1,659,534.88	39.4748897	-80.5945556
4,640.00	28.00	211.10	4,227.68	-1,474.37	-821.22	356,926.59	1,659,513.44	39.4747861	-80.5946300
4,734.00	31.50	214.80	4,309.29	-1,513.45	-846.64	356,887.51	1,659,488.01	39.4746780	-80.5947183
4,829.00	31.20	215.40	4,390.42	-1,553.88	-875.06	356,847.07	1,659,459.59	39.4745660	-80.5948172
4,923.00	30.20	209.80	4,471.26	-1,594.26	-900.92	356,806.70	1,659,433.74	39.4744543	-80.5949071
5,017.00	30.00	210.50	4,552.58	-1,635.02	-924.59	356,765.94	1,659,410.06	39.4743416	-80.5949892
5,111.00	26.60	208.30	4,635.34	-1,673.81	-946.50	356,727.15	1,659,388.15	39.4742344	-80.5950651
5,206.00	24.40	210.50	4,721.08	-1,709.45	-966.55	356,691.51	1,659,368.10	39.4741359	-80.5951346
5,300.00	27.10	211.10	4,805.74	-1,744.52	-987.47	356,656.44	1,659,347.18	39.4740389	-80.5952072
5,394.00	25.10	212.20	4,890.15	-1,779.73	-1,009.15	356,621.23	1,659,325.50	39.4739415	-80.5952825
5,489.00	23.30	204.00	4,976.82	-1,813.95	-1,027.54	356,587.01	1,659,307.11	39.4738470	-80.5953461
5,583.00	23.70	212.00	5,063.05	-1,846.97	-1,045.12	356,553.99	1,659,289.54	39.4737557	-80.5954070
5,678.00	20.40	214.70	5,151.09	-1,876.78	-1,064.66	356,524.18	1,659,269.99	39.4736732	-80.5954749
5,772.00	22.20	221.10	5,238.68	-1,903.64	-1,085.67	356,497.32	1,659,248.98	39.4735988	-80.5955482
5,866.00	23.40	209.60	5,325.37	-1,933.26	-1,106.57	356,467.69	1,659,228.08	39.4735168	-80.5956210
5,961.00	23.30	209.10	5,412.59	-1,966.08	-1,125.03	356,434.87	1,659,209.62	39.4734261	-80.5956849
6,055.00	22.50	220.80	5,499.23	-1,995.96	-1,145.84	356,405.00	1,659,188.82	39.4733433	-80.5957573
6,149.00	17.80	214.90	5,587.46	-2,021.37	-1,165.82	356,379.58	1,659,168.83	39.4732729	-80.5958270
6,244.00	14.10	210.30	5,678.79	-2,043.28	-1,179.97	356,357.67	1,659,154.68	39.4732123	-80.5958762
6,338.00	11.00	206.30	5,770.54	-2,061.21	-1,189.73	356,339.74	1,659,144.93	39.4731627	-80.5959100
6,433.00	8.50	200.20	5,864.16	-2,075.93	-1,196.17	356,325.03	1,659,138.48	39.4731221	-80.5959321
6,527.00	7.00	194.90	5,957.30	-2,087.99	-1,200.04	356,312.97	1,659,134.61	39.4730889	-80.5959543
6,621.00	5.40	190.40	6,050.75	-2,097.87	-1,202.31	356,303.09	1,659,132.34	39.4730617	-80.5959530
6,716.00	4.40	186.80	6,145.40	-2,105.89	-1,203.55	356,295.07	1,659,131.10	39.4730396	-80.5959570
6,810.00	3.70	189.50	6,239.16	-2,112.46	-1,204.48	356,288.50	1,659,130.17	39.4730216	-80.5959600
6,904.00	2.90	182.40	6,333.01	-2,117.83	-1,205.08	356,283.13	1,659,129.57	39.4730068	-80.5959619
6,967.00	1.40	196.10	6,395.96	-2,120.16	-1,205.36	356,280.80	1,659,129.29	39.4730004	-80.5959628
6,999.00	1.70	335.20	6,427.96	-2,120.10	-1,205.66	356,280.85	1,659,128.99	39.4730005	-80.5959639
7,030.00	5.10	343.00	6,458.90	-2,118.37	-1,206.26	356,282.59	1,659,128.39	39.4730053	-80.5959661
7,062.00	8.40	345.30	6,490.67	-2,114.75	-1,207.27	356,286.21	1,659,127.38	39.4730152	-80.5959698

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Site:	Blackshere Heirs	MD Reference:	WELL @ 892.10usft (H&P 285)
Well:	201H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM 5000 Conroe Server

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
7,093.00	11.60	342.60	6,521.20	-2,109.58	-1,208.78	356,291.38	1,659,125.87	39.4730293	-80.5959754	
7,125.00	14.50	340.00	6,552.37	-2,102.74	-1,211.11	356,298.21	1,659,123.54	39.4730480	-80.5959839	
7,156.00	16.90	335.00	6,582.21	-2,095.01	-1,214.34	356,305.95	1,659,120.31	39.4730691	-80.5959957	
7,188.00	19.40	328.80	6,612.62	-2,086.25	-1,219.06	356,314.71	1,659,115.59	39.4730930	-80.5960128	
7,219.00	22.20	323.70	6,641.60	-2,077.12	-1,225.20	356,323.84	1,659,109.45	39.4731179	-80.5960349	
7,250.00	25.00	319.70	6,670.00	-2,067.40	-1,232.90	356,333.55	1,659,101.75	39.4731443	-80.5960626	
7,282.00	27.60	317.20	6,698.69	-2,056.81	-1,242.32	356,344.15	1,659,092.34	39.4731731	-80.5960964	
7,313.00	30.60	315.50	6,725.77	-2,045.91	-1,252.73	356,355.05	1,659,081.92	39.4732026	-80.5961338	
7,345.00	31.90	314.60	6,753.13	-2,034.16	-1,264.46	356,366.80	1,659,070.19	39.4732345	-80.5961758	
7,376.00	33.00	312.90	6,779.29	-2,022.66	-1,276.47	356,378.30	1,659,058.18	39.4732657	-80.5962189	
7,408.00	35.70	312.90	6,805.71	-2,010.37	-1,289.70	356,390.59	1,659,044.95	39.4732990	-80.5962663	
7,439.00	38.40	313.20	6,830.45	-1,997.62	-1,303.35	356,403.34	1,659,031.31	39.4733335	-80.5963152	
7,471.00	40.50	315.90	6,855.16	-1,983.35	-1,317.82	356,417.60	1,659,016.83	39.4733722	-80.5963671	
7,502.00	44.60	316.10	6,877.99	-1,968.28	-1,332.38	356,432.68	1,659,002.27	39.4734131	-80.5964193	
7,533.00	47.00	319.40	6,899.60	-1,951.82	-1,347.31	356,449.14	1,658,987.34	39.4734578	-80.5964729	
7,565.00	49.70	320.70	6,920.87	-1,933.49	-1,362.66	356,467.47	1,658,971.99	39.4735076	-80.5965280	
7,596.00	53.30	322.50	6,940.16	-1,914.48	-1,377.72	356,486.48	1,658,956.93	39.4735593	-80.5965822	
7,628.00	56.70	324.50	6,958.52	-1,893.40	-1,393.30	356,507.55	1,658,941.35	39.4736166	-80.5966383	
7,659.00	60.20	323.90	6,974.73	-1,871.98	-1,408.75	356,528.97	1,658,925.90	39.4736749	-80.5966940	
7,691.00	66.00	325.10	6,989.21	-1,848.76	-1,425.31	356,552.20	1,658,909.34	39.4737381	-80.5967536	
7,722.00	69.90	325.40	7,000.84	-1,825.15	-1,441.68	356,575.81	1,658,892.97	39.4738023	-80.5968127	
7,773.00	77.10	325.20	7,015.32	-1,784.98	-1,469.50	356,615.98	1,658,865.15	39.4739117	-80.5969129	
7,804.00	80.60	326.80	7,021.31	-1,759.77	-1,486.50	356,641.19	1,658,848.15	39.4739804	-80.5969743	
7,834.00	84.00	320.90	7,025.33	-1,735.78	-1,504.04	356,665.18	1,658,830.61	39.4740456	-80.5970374	
7,865.00	86.70	318.00	7,027.85	-1,712.31	-1,524.12	356,688.65	1,658,810.53	39.4741094	-80.5971096	
7,894.00	90.20	321.60	7,028.63	-1,690.17	-1,542.83	356,710.79	1,658,791.83	39.4741695	-80.5971768	
7,919.00	90.50	321.30	7,028.48	-1,670.62	-1,558.41	356,730.34	1,658,776.25	39.4742227	-80.5972328	
7,954.00	90.90	320.50	7,028.05	-1,643.46	-1,580.48	356,757.50	1,658,754.17	39.4742965	-80.5973122	
8,044.00	91.50	317.90	7,026.17	-1,575.35	-1,639.27	356,825.61	1,658,695.38	39.4744815	-80.5975234	
8,134.00	91.00	321.70	7,024.20	-1,506.64	-1,697.33	356,894.32	1,658,637.32	39.4746682	-80.5977320	
8,225.00	91.50	322.40	7,022.22	-1,434.90	-1,753.28	356,966.06	1,658,581.37	39.4748633	-80.5979333	
8,319.00	88.70	325.10	7,022.05	-1,359.11	-1,808.85	357,041.85	1,658,525.80	39.4750695	-80.5981334	
8,414.00	88.80	324.60	7,024.13	-1,281.45	-1,863.53	357,119.51	1,658,471.12	39.4752808	-80.5983305	
8,508.00	88.90	326.90	7,026.01	-1,203.77	-1,916.42	357,197.19	1,658,418.23	39.4754923	-80.5985212	
8,603.00	89.70	328.00	7,027.17	-1,123.70	-1,967.53	357,277.26	1,658,367.12	39.4757104	-80.5987057	
8,697.00	87.80	331.70	7,029.22	-1,042.46	-2,014.72	357,358.50	1,658,319.93	39.4759319	-80.5988764	
8,791.00	88.70	330.90	7,032.09	-960.04	-2,059.84	357,440.91	1,658,274.81	39.4761566	-80.5990398	
8,886.00	88.60	328.20	7,034.33	-878.18	-2,107.97	357,522.78	1,658,226.68	39.4763797	-80.5992139	
8,980.00	88.30	322.00	7,036.88	-801.15	-2,161.71	357,599.81	1,658,172.95	39.4765894	-80.5994075	
9,075.00	88.50	321.50	7,039.53	-726.57	-2,220.50	357,674.38	1,658,114.16	39.4767921	-80.5996190	
9,169.00	88.50	320.10	7,041.99	-653.76	-2,279.88	357,747.20	1,658,054.77	39.4769900	-80.5998326	
9,263.00	91.40	317.20	7,042.07	-583.21	-2,341.97	357,817.75	1,657,992.68	39.4771816	-80.6000556	
9,358.00	93.10	324.00	7,038.34	-509.90	-2,402.19	357,891.06	1,657,932.46	39.4773809	-80.6002721	
9,452.00	92.40	322.80	7,033.83	-434.52	-2,458.17	357,966.43	1,657,876.48	39.4775859	-80.6004736	
9,546.00	90.60	326.00	7,031.37	-358.13	-2,512.86	358,042.83	1,657,821.79	39.4777938	-80.6006707	
9,641.00	90.50	329.30	7,030.46	-277.89	-2,563.69	358,123.07	1,657,770.97	39.4780124	-80.6008542	
9,735.00	87.90	326.50	7,031.77	-198.28	-2,613.62	358,202.67	1,657,721.03	39.4782292	-80.6010346	
9,829.00	87.70	322.30	7,035.38	-121.93	-2,668.29	358,279.03	1,657,666.36	39.4784370	-80.6012316	
9,924.00	88.20	320.00	7,038.78	-47.99	-2,727.84	358,352.96	1,657,606.81	39.4786380	-80.6014457	
10,018.00	89.50	325.50	7,040.67	26.79	-2,784.70	358,427.74	1,657,549.95	39.4788413	-80.6016504	
10,113.00	90.60	319.00	7,040.58	101.86	-2,842.83	358,502.82	1,657,491.82	39.4790455	-80.6018596	
10,207.00	89.00	317.80	7,040.91	172.15	-2,905.24	358,573.11	1,657,429.42	39.4792363	-80.6020837	
10,301.00	93.30	313.70	7,039.02	239.44	-2,970.78	358,640.40	1,657,363.87	39.4794189	-80.6023188	
10,396.00	95.00	313.20	7,032.15	304.60	-3,039.57	358,705.56	1,657,295.08	39.4795954	-80.6025653	
10,490.00	95.50	318.00	7,023.54	371.46	-3,105.04	358,772.41	1,657,229.61	39.4797768	-80.6028002	

Received

103.02944



Survey Report - Geographic



Company:	Trans Energy Inc.	Local Co-ordinate Reference:	Well 201H
Project:	Wetzel County, West Virginia (NAD 83)	TVD Reference:	WELL @ 892.10usft (H&P 285)
Site:	Blackshere Heirs	MD Reference:	WELL @ 892.10usft (H&P 285)
Well:	201H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM 5000 Conroe Server

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
10,585.00	95.40	318.40	7,014.52	441.96	-3,168.07	358,842.91	1,657,166.58	39.4799682	-80.6030266	
10,679.00	95.80	323.00	7,005.34	514.33	-3,227.31	358,915.29	1,657,107.34	39.4801649	-80.6032396	
10,800.00	91.20	321.70	6,997.96	609.92	-3,301.07	359,010.88	1,657,033.58	39.4804248	-80.6035050	
10,895.00	86.70	324.10	6,999.70	685.66	-3,358.34	359,086.61	1,656,976.31	39.4806308	-80.6037112	
10,989.00	86.20	326.90	7,005.52	762.97	-3,411.48	359,163.92	1,656,923.17	39.4808412	-80.6039028	
11,083.00	86.90	334.70	7,011.19	844.81	-3,457.22	359,245.77	1,656,877.43	39.4810644	-80.6040684	
11,178.00	90.90	336.50	7,013.01	931.29	-3,496.44	359,332.25	1,656,838.21	39.4813005	-80.6042111	
11,272.00	90.20	332.90	7,012.11	1,016.25	-3,536.61	359,417.21	1,656,798.04	39.4815324	-80.6043571	
11,367.00	90.50	335.80	7,011.53	1,101.88	-3,577.73	359,502.84	1,656,756.93	39.4817661	-80.6045065	
11,461.00	90.30	338.40	7,010.87	1,188.46	-3,614.30	359,589.42	1,656,720.35	39.4820025	-80.6046399	
11,556.00	89.80	336.90	7,010.79	1,276.32	-3,650.42	359,677.28	1,656,684.23	39.4822425	-80.6047717	
11,650.00	87.20	330.30	7,013.25	1,360.44	-3,692.18	359,761.40	1,656,642.48	39.4824720	-80.6049232	
11,745.00	86.20	324.70	7,018.72	1,440.40	-3,743.11	359,841.35	1,656,591.54	39.4826898	-80.6051072	
11,839.00	88.00	322.30	7,023.48	1,515.85	-3,798.95	359,916.81	1,656,535.70	39.4828951	-80.6053083	
11,933.00	89.30	325.10	7,025.69	1,591.58	-3,854.57	359,992.54	1,656,480.08	39.4831011	-80.6055086	
12,028.00	90.60	327.90	7,025.78	1,670.79	-3,907.00	360,071.75	1,656,427.65	39.4833168	-80.6056978	
12,122.00	91.00	324.00	7,024.46	1,748.65	-3,959.62	360,149.61	1,656,375.03	39.4835287	-80.6058876	
12,216.00	90.80	325.70	7,022.99	1,825.50	-4,013.73	360,226.45	1,656,320.92	39.4837379	-80.6060827	
12,311.00	90.40	324.70	7,021.99	1,903.50	-4,067.94	360,304.46	1,656,266.71	39.4839502	-80.6062781	
12,406.00	90.00	326.30	7,021.66	1,981.79	-4,121.75	360,382.75	1,656,212.90	39.4841633	-80.6064722	
12,500.00	89.80	323.00	7,021.82	2,058.45	-4,176.13	360,459.41	1,656,158.53	39.4843719	-80.6066682	
12,562.00	89.80	323.00	7,022.04	2,107.96	-4,213.44	360,508.92	1,656,121.21	39.4845066	-80.6068025	

Projection to TD - 12562.00' MD

Survey Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
12,562.00	7,022.04	2,107.96	-4,213.44	Projection to TD - 12562.00' MD	

Received

Office of Oil & Gas

JAN 23 2015

