



Company: Trans Energy Inc.
 Site: Freeland, et al (Grid)
 Well: 2H
 Project: Marion County, West Virginia (NAD 27)
 Rig Name: Nomac 290

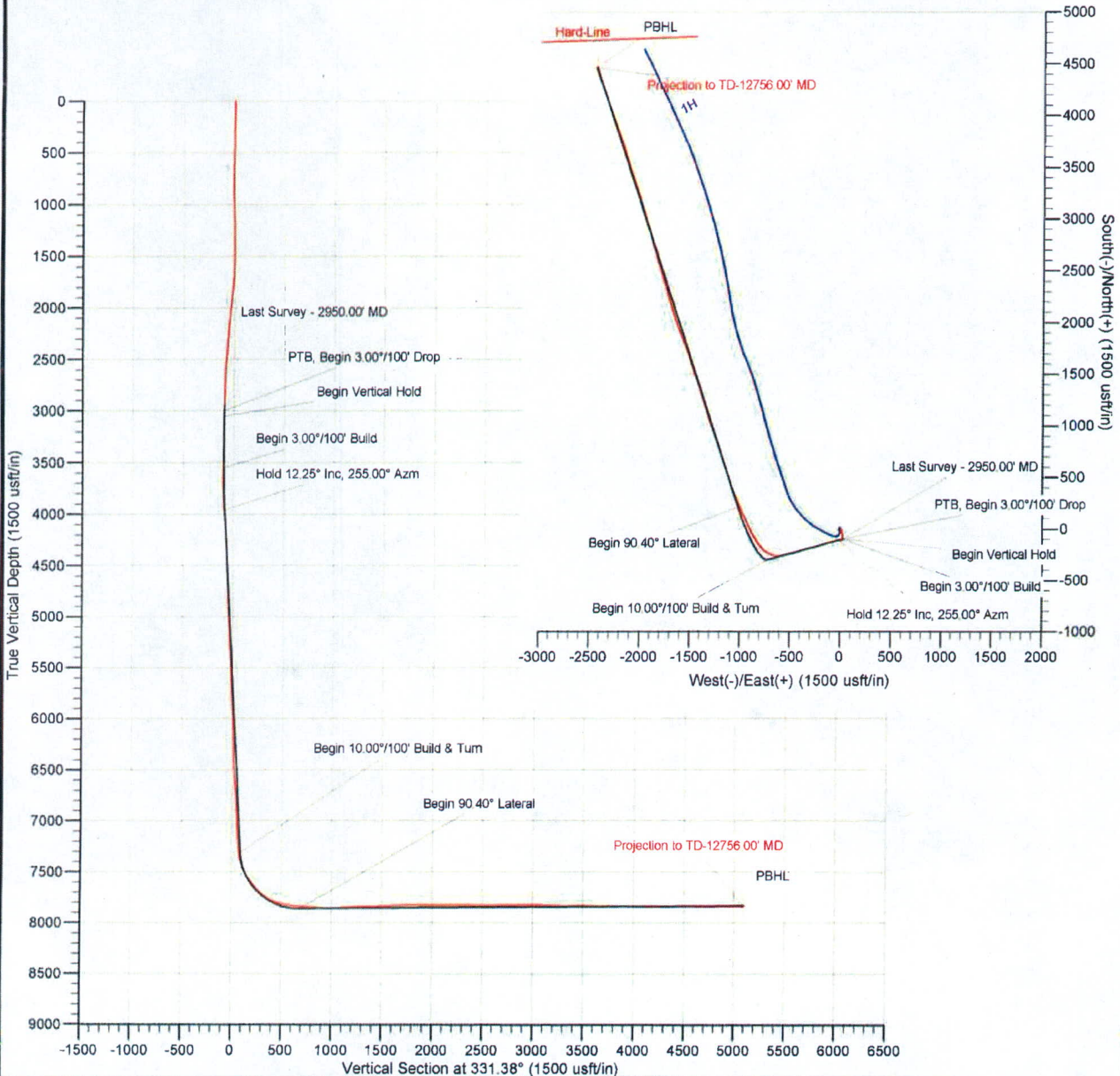


Azimuths to Grid North
 True North: 0.57°
 Magnetic North: -8.20°
 Magnetic Field
 Strength: 52565.2nT
 Dip Angle: 67.14°
 Date: 03/14/2013
 Model: WMM_2010

US State Plane 1927 (Exact solution)
 West Virginia North 4701

Created By: HLH
 Date: 11:12, June 10 2013
 Plan: Design #4

ANNOTATIONS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure	Annotation	
2950.00	1.60	204.50	2945.38	-94.10	27.78	-95.91	0.00	Last Survey - 2950.00' MD	
3000.00	1.60	204.50	2995.36	-95.37	27.20	-96.75	1.40	PTB, Begin 3.00°/100' Drop	
3053.33	0.00	0.00	3048.88	-96.05	26.89	-97.20	2.14	Begin Vertical Hold	
3553.33	0.00	0.00	3548.88	-96.05	26.89	-97.20	2.14	Begin 3.00°/100' Build	
3961.56	12.25	255.00	3953.81	-107.30	-15.09	-86.98	45.60	Hold 12.25° Inc, 255.00° Azm	
7395.36	12.25	255.00	7309.46	-295.80	-718.67	84.58	773.99	Begin 10.00°/100' Build & Turn	
8291.85	90.40	341.51	7862.00	213.00	-1015.95	673.61	1381.47	Begin 90.40° Lateral	
12782.61	90.40	341.51	7830.65	4471.83	-2440.11	5094.25	5872.11	PBHL	



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

DEC 22 2014



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Project: Marion County, West Virginia (NAD 27)
Site: Freeland, et al (Grid)
Well: 2H
Wellbore: Wellbore #1
Design: Surveys

Local Co-ordinate Reference: Well 2H
TVD Reference: WELL @ 1327.09usft (Nomac 290)
MD Reference: WELL @ 1327.09usft (Nomac 290)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Well Planning Conroe

Project	Marion County, West Virginia (NAD 27)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	West Virginia North 4701		

Well 2H

Well Position	+N/-S	0.00 usft	Northing:	408,668.95 usft	Latitude:	39.8185528
	+E/-W	0.00 usft	Easting:	1,746,692.34 usft	Longitude:	-80.3992055
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	1,310.09 usft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	WMM_2010	03/14/13	-8.77	87.14	52,565

Design Surveys

Audit Notes:

Version: 1.0 **Phase:** ACTUAL **Tie On Depth:** 0.00

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	331.38

Survey Program Date 08/10/13

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
139.00	12,758.00	MS MWD (Wellbore #1)	MWD	MWD - Standard

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
139.00	1.80	212.10	136.98	-1.85	-1.16	-1.07	1.29	1.29	0.00
169.00	1.50	217.50	168.96	-2.56	-1.65	-1.46	1.13	-1.00	18.00
200.00	1.60	213.50	199.95	-3.24	-2.14	-1.82	0.48	0.32	-12.90
231.00	1.40	203.20	230.94	-3.95	-2.52	-2.26	1.08	-0.65	-33.23
262.00	1.50	199.80	261.93	-4.68	-2.81	-2.76	0.43	0.32	-10.97
292.00	1.50	214.70	291.92	-5.37	-3.17	-3.20	1.30	0.00	49.67
321.00	1.50	206.80	320.91	-6.02	-3.55	-3.59	0.71	0.00	-27.24
386.00	1.70	210.10	385.89	-7.62	-4.42	-4.57	0.34	0.31	5.08
417.00	1.80	206.50	416.87	-8.45	-4.87	-5.09	0.48	0.32	-11.61
481.00	1.70	206.50	480.84	-10.20	-5.74	-6.20	0.16	-0.16	0.00
544.00	1.80	178.00	543.81	-12.03	-6.12	-7.62	1.38	0.16	-45.24
808.00	1.40	174.70	607.79	-13.81	-6.02	-9.24	0.64	-0.63	-5.16
639.00	1.10	175.00	638.78	-14.48	-5.98	-9.86	0.97	-0.97	0.97
671.00	1.00	158.80	670.78	-15.05	-5.83	-10.42	0.98	-0.31	-50.63

Office of Oil & Gas



MS Energy Services



Survey Report

WWW.MSENERGYSERVICES.COM

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Design: Surveys

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MD Reference: WELL @ 1327.09usft (Nomac 290)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Well Planning Conroe

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
703.00	0.90	137.90	702.77	-15.50	-5.56	-10.94	1.12	-0.31	-65.31
735.00	0.90	101.00	734.77	-15.73	-5.14	-11.34	1.78	0.00	-115.31
768.00	0.80	81.00	765.77	-15.74	-4.69	-11.57	1.00	-0.32	-64.52
798.00	0.90	61.60	797.76	-15.59	-4.25	-11.65	0.95	0.31	-60.83
830.00	1.20	45.20	829.76	-15.23	-3.79	-11.56	1.32	0.94	-51.25
862.00	1.60	25.50	861.75	-14.59	-3.36	-11.20	1.94	1.25	-61.56
893.00	1.80	26.30	892.73	-13.77	-2.96	-10.67	0.65	0.65	2.58
925.00	2.20	21.70	924.71	-12.75	-2.51	-9.99	1.35	1.25	-14.38
957.00	2.50	21.00	956.69	-11.52	-2.03	-9.14	0.94	0.94	-2.19
989.00	2.70	25.20	986.65	-10.19	-1.46	-8.25	0.86	0.63	13.13
1,020.00	2.90	24.50	1,019.62	-8.82	-0.82	-7.34	0.65	0.85	-2.28
1,052.00	3.10	23.20	1,051.57	-7.28	-0.15	-6.32	0.68	0.63	-4.06
1,084.00	3.00	23.60	1,083.53	-5.72	0.53	-5.28	0.32	-0.31	1.25
1,116.00	3.00	19.20	1,115.48	-4.16	1.14	-4.20	0.72	0.00	-13.75
1,144.00	2.40	19.80	1,143.45	-2.92	1.58	-3.32	2.14	-2.14	1.43
1,260.00	2.40	21.50	1,259.35	1.63	3.28	-0.14	0.07	0.00	1.64
1,320.00	1.40	29.00	1,319.32	3.44	4.10	1.06	1.71	-1.67	12.50
1,383.00	0.80	132.20	1,382.31	3.82	4.80	1.05	2.80	-0.95	163.81
1,447.00	1.10	155.10	1,446.30	2.96	5.39	0.02	0.75	0.47	35.78
1,511.00	1.60	157.30	1,510.28	1.58	5.99	-1.48	0.79	0.78	3.44
1,574.00	1.70	171.60	1,573.28	-0.16	6.47	-3.24	0.67	0.16	22.70
1,638.00	2.70	167.10	1,637.21	-2.57	6.94	-5.58	1.58	1.56	-7.03
1,701.00	3.30	164.00	1,700.12	-5.76	7.77	-8.78	0.99	0.95	-4.92
1,765.00	4.60	160.10	1,763.97	-9.94	9.15	-13.11	2.07	2.03	-6.09
1,828.00	5.10	166.30	1,826.74	-15.04	10.68	-18.31	1.15	0.79	9.84
1,892.00	5.50	165.40	1,890.47	-20.77	12.12	-24.04	0.64	0.63	-1.41
1,955.00	5.90	164.50	1,953.16	-26.81	13.75	-30.12	0.65	0.63	-1.43
2,019.00	5.90	162.80	2,016.82	-33.12	15.60	-36.55	0.27	0.00	-2.66
2,083.00	6.20	160.70	2,080.46	-39.52	17.72	-43.18	0.58	0.47	-3.28
2,146.00	5.90	164.30	2,143.11	-45.85	19.72	-49.70	0.77	-0.48	5.71
2,210.00	4.60	166.40	2,206.84	-51.51	21.21	-55.38	2.05	-2.03	3.28
2,273.00	3.90	167.00	2,269.67	-56.06	22.29	-59.88	1.11	-1.11	0.95
2,337.00	4.30	167.00	2,333.51	-60.52	23.32	-64.29	0.63	0.63	0.00
2,400.00	4.70	167.10	2,396.31	-65.33	24.42	-69.05	0.64	0.63	0.16
2,464.00	5.10	164.60	2,460.08	-70.63	25.76	-74.34	0.71	0.63	-3.91
2,528.00	4.60	164.00	2,523.85	-75.84	27.23	-79.62	0.79	-0.78	-0.94
2,591.00	4.00	169.40	2,586.67	-80.43	28.33	-84.17	1.15	-0.95	8.57
2,655.00	2.90	178.80	2,650.55	-84.24	28.83	-87.76	1.85	-1.72	11.56
2,718.00	2.30	178.60	2,713.49	-87.09	28.95	-90.32	0.96	-0.95	2.66
2,782.00	1.90	182.60	2,777.45	-89.44	28.93	-92.37	0.67	-0.63	6.25
2,846.00	1.50	195.40	2,841.42	-91.31	28.66	-93.88	0.66	-0.63	20.00
2,909.00	1.70	196.10	2,904.39	-93.00	28.16	-95.14	0.32	0.32	1.11
2,950.00	1.60	204.50	2,945.38	-94.10	27.78	-95.91	0.64	-0.24	20.49
3,050.00	1.80	213.70	3,045.33	-96.68	26.33	-97.48	0.34	0.20	9.20



MS Energy Services
 Survey Report



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3,113.00	1.70	218.40	3,108.30	-98.24	25.20	-98.30	0.28	-0.16	7.48
3,177.00	1.40	215.10	3,172.28	-99.62	24.16	-99.02	0.49	-0.47	-5.16
3,241.00	1.40	218.70	3,236.26	-100.87	23.22	-99.67	0.14	0.00	5.63
3,303.00	1.30	219.30	3,298.24	-102.01	22.30	-100.22	0.16	-0.16	0.97
3,367.00	1.10	217.20	3,362.23	-103.06	21.47	-100.75	0.32	-0.31	-3.28
3,430.00	1.00	212.70	3,425.22	-104.00	20.81	-101.26	0.21	-0.16	-7.14
3,494.00	1.00	218.40	3,489.21	-104.91	20.16	-101.75	0.16	0.00	8.91
3,558.00	0.70	213.10	3,553.20	-105.67	19.60	-102.15	0.48	-0.47	-8.28
3,621.00	2.20	237.70	3,616.18	-106.64	18.37	-102.41	2.52	2.38	39.05
3,684.00	2.50	247.70	3,679.13	-107.81	16.07	-102.34	0.80	0.48	15.87
3,748.00	3.30	253.60	3,743.05	-108.86	13.01	-101.79	1.33	1.25	9.22
3,812.00	4.90	262.40	3,806.88	-109.74	8.54	-100.42	2.68	2.50	13.75
3,875.00	6.90	267.40	3,869.54	-110.27	2.09	-97.80	3.27	3.17	7.94
3,939.00	8.60	266.90	3,932.96	-110.70	-6.53	-94.05	2.66	2.66	-0.78
4,003.00	9.60	268.60	3,996.15	-111.09	-16.64	-89.55	1.62	1.56	2.66
4,066.00	10.00	266.20	4,058.23	-111.58	-27.35	-84.85	0.91	0.83	-3.81
4,130.00	10.90	262.90	4,121.17	-112.70	-38.90	-80.29	1.69	1.41	-5.16
4,192.00	10.90	259.70	4,182.05	-114.47	-50.49	-76.30	0.98	0.00	-5.16
4,256.00	10.50	255.70	4,244.94	-116.99	-62.09	-72.66	1.32	-0.63	-6.25
4,319.00	9.80	254.30	4,306.95	-119.86	-72.82	-70.34	1.18	-1.11	-2.22
4,383.00	9.70	252.80	4,370.03	-122.93	-83.21	-68.05	0.43	-0.16	-2.34
4,446.00	10.80	251.30	4,432.02	-126.39	-93.67	-65.98	1.80	1.75	-2.38
4,510.00	11.60	250.60	4,494.80	-130.45	-105.62	-63.92	1.27	1.25	-1.09
4,573.00	11.50	250.60	4,556.53	-134.64	-117.52	-61.90	0.16	-0.16	0.00
4,637.00	11.20	254.40	4,619.28	-138.43	-129.52	-59.48	1.26	-0.47	5.94
4,700.00	11.30	256.90	4,681.07	-141.48	-141.43	-56.45	0.79	0.16	3.97
4,764.00	11.40	254.80	4,743.82	-144.56	-153.64	-53.30	0.66	0.16	-3.28
4,827.00	10.60	251.50	4,805.66	-148.03	-165.14	-50.84	1.62	-1.27	-5.24
4,891.00	8.90	250.80	4,868.73	-151.52	-175.40	-48.99	2.66	-2.66	-1.09
4,954.00	8.60	255.10	4,931.00	-154.34	-184.55	-47.08	1.14	-0.48	6.83
5,018.00	10.00	263.80	4,994.16	-156.17	-194.70	-43.82	3.09	2.19	13.59
5,081.00	10.20	260.40	5,056.16	-157.69	-205.64	-39.92	1.00	0.32	-5.40
5,145.00	10.40	256.50	5,119.15	-159.98	-216.85	-36.57	1.13	0.31	-6.09
5,208.00	10.40	252.70	5,181.12	-163.00	-227.81	-33.97	1.09	0.00	-6.03
5,272.00	10.30	252.00	5,244.08	-166.49	-238.76	-31.78	0.25	-0.16	-1.09
5,335.00	10.40	253.60	5,306.05	-169.83	-249.57	-29.54	0.48	0.16	2.54
5,399.00	10.50	261.40	5,368.99	-172.34	-260.88	-26.32	2.21	0.16	12.19
5,462.00	10.50	257.50	5,430.94	-174.44	-272.16	-22.76	1.13	0.00	-6.19
5,526.00	10.20	252.60	5,493.90	-177.39	-283.26	-20.04	1.45	-0.47	-7.66
5,589.00	11.10	252.80	5,555.81	-180.86	-294.38	-17.75	1.43	1.43	0.32
5,653.00	11.60	252.10	5,618.56	-184.66	-306.39	-15.33	0.81	0.78	-1.09
5,716.00	12.10	251.40	5,680.22	-188.71	-318.67	-13.01	0.83	0.79	-1.11
5,779.00	12.00	253.80	5,741.83	-192.64	-331.22	-10.45	0.81	-0.16	3.81



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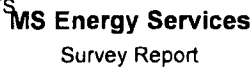
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5,843.00	12.30	254.40	5,804.40	-196.33	-344.18	-7.48	0.51	0.47	0.94
5,906.00	12.30	253.70	5,865.95	-200.02	-357.08	-4.54	0.24	0.00	-1.11
5,970.00	12.80	256.60	5,928.42	-203.58	-370.52	-1.22	1.26	0.78	4.53
6,033.00	12.70	260.00	5,989.87	-206.40	-384.13	2.82	1.20	-0.16	5.40
6,097.00	12.60	257.40	6,052.32	-209.14	-397.87	6.99	0.90	-0.16	-4.08
6,160.00	11.40	254.20	6,113.94	-212.33	-410.57	10.27	2.18	-1.90	-5.08
6,224.00	9.80	250.10	6,176.85	-215.91	-421.78	12.50	2.76	-2.50	-6.41
6,287.00	8.30	248.10	6,239.06	-219.43	-431.04	13.85	2.43	-2.38	-3.17
6,350.00	7.20	245.90	6,301.48	-222.74	-438.86	14.69	1.81	-1.75	-3.49
6,414.00	7.10	245.20	6,364.99	-226.04	-446.11	15.27	0.21	-0.16	-1.09
6,482.00	7.50	247.20	6,432.44	-229.52	-454.02	16.00	0.70	0.59	2.94
6,545.00	7.70	267.50	6,494.89	-231.30	-462.03	18.27	4.25	0.32	32.22
6,609.00	9.80	271.00	6,558.15	-231.39	-471.76	22.85	3.38	3.28	5.47
6,673.00	10.50	267.10	6,621.14	-231.59	-483.03	28.08	1.53	1.09	-6.09
6,736.00	10.70	264.30	6,683.07	-232.46	-494.58	32.85	0.88	0.32	-4.44
6,800.00	11.40	261.40	6,745.88	-234.00	-506.75	37.32	1.40	1.09	-4.53
6,863.00	12.30	253.50	6,807.54	-236.83	-519.34	40.87	2.94	1.43	-12.54
6,927.00	11.80	251.90	6,870.13	-240.80	-532.09	43.49	0.94	-0.78	-2.50
6,990.00	11.90	252.60	6,931.79	-244.75	-544.41	45.93	0.28	0.16	1.11
7,054.00	12.80	254.60	6,994.31	-248.60	-557.55	48.84	1.56	1.41	3.13
7,117.00	12.70	255.60	7,055.76	-252.18	-570.98	52.13	0.38	-0.16	1.59
7,181.00	12.70	258.30	7,118.19	-255.35	-584.68	55.91	0.93	0.00	4.22
7,238.00	12.20	260.60	7,173.85	-257.81	-596.76	59.72	1.24	-0.88	4.04
7,301.00	11.10	258.50	7,235.55	-259.90	-609.27	63.69	1.87	-1.75	-3.33
7,333.00	11.00	259.30	7,266.96	-261.09	-615.29	65.54	0.57	-0.31	2.50
7,365.00	12.40	266.50	7,298.30	-261.86	-621.72	67.94	6.31	4.38	22.50
7,397.00	15.50	276.40	7,329.35	-261.59	-629.40	71.85	12.19	9.69	30.94
7,429.00	18.40	282.80	7,359.96	-260.00	-638.58	77.65	10.76	9.06	20.00
7,461.00	21.40	287.00	7,390.05	-257.17	-649.09	85.16	10.38	9.38	13.13
7,493.00	22.90	287.50	7,419.69	-253.59	-660.61	93.82	4.72	4.69	1.56
7,524.00	26.10	289.00	7,447.89	-249.56	-672.81	103.21	10.52	10.32	4.84
7,556.00	29.50	290.90	7,476.19	-244.45	-686.83	114.41	10.98	10.63	5.94
7,588.00	34.50	294.10	7,503.33	-237.94	-702.48	127.62	16.49	15.63	10.00
7,620.00	37.20	296.90	7,529.26	-229.86	-719.38	142.81	9.87	8.44	8.75
7,652.00	38.80	303.70	7,554.49	-219.91	-736.36	159.87	14.00	5.00	21.25
7,684.00	38.10	310.20	7,579.56	-207.97	-752.25	177.76	12.81	-2.19	20.31
7,716.00	38.70	316.90	7,604.65	-194.29	-766.63	196.66	13.13	1.88	20.94
7,747.00	38.40	318.40	7,628.89	-180.02	-779.64	215.43	3.17	-0.97	4.84
7,779.00	40.70	321.00	7,653.57	-164.47	-792.81	235.38	8.85	7.19	8.13
7,810.00	42.50	322.00	7,676.75	-148.36	-805.62	255.65	6.19	5.81	3.23
7,842.00	46.10	323.20	7,699.65	-130.61	-819.19	277.74	11.55	11.25	3.75
7,874.00	50.00	324.60	7,721.04	-111.38	-833.20	301.33	12.61	12.19	4.38
7,906.00	55.50	327.80	7,740.40	-90.21	-847.34	326.69	18.94	17.19	10.00

Received

DEC 22 2014



Company: Trans Energy Inc.
Project: Marion County, West Virginia (NAD 27)
Site: Freeland, et al (Grid)
Well: 2H
Wellbore: Wellbore #1
Design: Surveys

Local Co-ordinate Reference: Well 2H
TVD Reference: WELL @ 1327.09usft (Nomac 290)
MD Reference: WELL @ 1327.09usft (Nomac 290)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Well Planning Conroe

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,938.00	58.20	329.50	7,757.90	-67.33	-861.27	353.44	9.54	8.44	5.31
7,970.00	62.80	331.30	7,773.65	-43.12	-875.01	381.28	15.18	14.38	5.63
8,002.00	66.10	334.20	7,787.46	-17.45	-888.22	410.14	13.16	10.31	9.06
8,033.00	70.60	334.40	7,798.89	8.50	-900.71	436.90	14.53	14.52	0.65
8,065.00	73.40	334.70	7,808.78	35.98	-913.79	469.29	8.80	8.75	0.94
8,097.00	76.70	334.40	7,817.03	63.89	-927.07	500.15	10.35	10.31	-0.94
8,129.00	79.10	334.10	7,823.74	92.07	-940.68	531.40	7.56	7.50	-0.94
8,161.00	82.60	334.70	7,828.83	120.56	-954.31	562.94	11.09	10.94	1.88
8,193.00	83.40	335.20	7,832.73	149.34	-967.76	594.64	2.94	2.50	1.56
8,225.00	84.00	336.10	7,836.24	178.31	-980.87	626.36	3.37	1.88	2.81
8,257.00	84.40	336.70	7,839.47	207.49	-993.62	658.08	2.25	1.25	1.88
8,320.00	84.80	336.70	7,845.40	265.09	-1,018.43	720.53	0.63	0.63	0.00
8,384.00	86.00	336.90	7,850.53	323.73	-1,043.56	784.03	1.90	1.88	0.31
8,447.00	87.90	338.10	7,853.89	381.84	-1,067.63	846.58	3.57	3.02	1.90
8,511.00	88.30	339.60	7,856.01	441.50	-1,090.71	910.00	2.42	0.63	2.34
8,574.00	90.10	340.30	7,856.89	500.67	-1,112.31	972.29	3.07	2.86	1.11
8,638.00	92.20	341.20	7,855.80	561.08	-1,133.40	1,035.42	3.57	3.28	1.41
8,702.00	92.40	341.60	7,853.03	621.68	-1,153.80	1,098.39	0.70	0.31	0.63
8,765.00	93.10	341.80	7,850.01	681.43	-1,173.56	1,160.30	1.16	1.11	0.32
8,828.00	92.00	341.50	7,847.21	741.17	-1,193.37	1,222.23	1.81	-1.75	-0.48
8,892.00	90.30	340.70	7,845.92	801.70	-1,214.09	1,285.29	2.94	-2.66	-1.25
8,955.00	90.80	339.80	7,845.32	860.99	-1,235.38	1,347.54	1.63	0.79	-1.43
9,018.00	92.40	339.50	7,843.56	920.03	-1,257.28	1,409.86	2.58	2.54	-0.48
9,081.00	93.40	339.50	7,840.37	978.97	-1,279.32	1,472.14	1.59	1.59	0.00
9,145.00	93.50	340.90	7,836.52	1,039.07	-1,300.96	1,535.27	2.19	0.16	2.19
9,208.00	92.00	342.00	7,833.50	1,098.73	-1,320.97	1,597.23	2.95	-2.38	1.75
9,272.00	91.30	342.10	7,831.66	1,159.59	-1,340.69	1,660.09	1.10	-1.09	0.16
9,334.00	89.80	342.00	7,831.06	1,218.57	-1,359.80	1,721.02	2.42	-2.42	-0.16
9,398.00	90.00	342.00	7,831.17	1,279.43	-1,379.57	1,783.92	0.31	0.31	0.00
9,462.00	90.00	341.70	7,831.17	1,340.25	-1,399.51	1,846.85	0.47	0.00	-0.47
9,525.00	90.80	341.80	7,830.73	1,400.08	-1,419.24	1,908.82	1.28	1.27	0.16
9,589.00	89.90	340.70	7,830.34	1,460.68	-1,439.81	1,971.87	2.22	-1.41	-1.72
9,653.00	89.50	340.20	7,830.68	1,520.98	-1,461.22	2,035.07	1.00	-0.83	-0.78
9,716.00	90.10	340.90	7,830.90	1,580.39	-1,482.20	2,097.27	1.46	0.95	1.11
9,779.00	90.60	341.10	7,830.51	1,639.96	-1,502.71	2,159.38	0.85	0.79	0.32
9,843.00	91.60	341.10	7,829.28	1,700.50	-1,523.44	2,222.45	1.56	1.56	0.00
9,907.00	89.50	338.30	7,828.87	1,760.51	-1,545.64	2,285.76	5.47	-3.28	-4.38
9,970.00	87.90	338.20	7,830.10	1,819.01	-1,568.98	2,348.29	2.54	-2.54	-0.16
10,034.00	89.00	339.00	7,831.83	1,878.57	-1,592.32	2,411.76	2.12	1.72	1.25
10,097.00	89.40	339.90	7,832.71	1,937.56	-1,614.43	2,474.13	1.56	0.63	1.43
10,161.00	90.20	340.50	7,832.93	1,997.77	-1,636.11	2,537.37	1.56	1.25	0.94
10,224.00	90.70	341.60	7,832.44	2,057.35	-1,656.57	2,599.47	1.92	0.79	1.75
10,288.00	91.30	342.00	7,831.32	2,118.14	-1,676.56	2,662.41	1.13	0.94	0.63
10,351.00	91.40	342.50	7,829.84	2,178.13	-1,695.76	2,724.26	0.81	0.16	0.79



MS Energy Services
Survey Report



Company: Trans Energy Inc.
Project: Marion County, West Virginia (NAD 27)
Site: Freeland, et al (Grid)
Well: 2H
Wellbore: Wellbore #1
Design: Surveys

Local Co-ordinate Reference: Well 2H
TVD Reference: WELL @ 1327.09usft (Nomac 290)
MD Reference: WELL @ 1327.09usft (Nomac 290)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Well Planning Conroe

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,415.00	90.20	343.00	7,828.94	2,239.24	-1,714.73	2,786.99	2.03	-1.88	0.78
10,478.00	90.70	343.50	7,828.45	2,299.56	-1,732.89	2,848.64	1.12	0.79	0.79
10,541.00	91.20	343.40	7,827.40	2,359.95	-1,750.83	2,910.24	0.81	0.79	-0.16
10,605.00	90.90	342.70	7,826.23	2,421.16	-1,769.49	2,972.91	1.19	-0.47	-1.09
10,668.00	88.80	343.10	7,826.40	2,481.37	-1,788.01	3,034.64	3.39	-3.33	0.63
10,732.00	87.60	342.00	7,828.41	2,542.39	-1,807.19	3,097.39	2.54	-1.88	-1.72
10,795.00	88.10	342.60	7,830.77	2,602.36	-1,826.33	3,159.21	1.24	0.79	0.95
10,859.00	88.40	343.10	7,832.72	2,663.49	-1,845.19	3,221.90	0.91	0.47	0.78
10,922.00	88.90	343.60	7,834.21	2,723.83	-1,863.24	3,283.51	1.12	0.79	0.79
10,986.00	91.10	344.90	7,834.21	2,785.42	-1,880.61	3,345.90	3.99	3.44	2.03
11,049.00	91.90	345.50	7,832.56	2,846.31	-1,898.70	3,407.05	1.59	1.27	0.95
11,113.00	90.50	344.20	7,831.22	2,908.07	-1,913.42	3,469.28	2.98	-2.19	-2.03
11,177.00	88.10	341.90	7,832.00	2,969.28	-1,932.07	3,531.94	5.19	-3.75	-3.59
11,240.00	88.80	342.20	7,833.70	3,029.19	-1,951.48	3,593.83	1.21	1.11	0.48
11,304.00	90.10	343.20	7,834.32	3,090.29	-1,970.51	3,656.58	2.56	2.03	1.56
11,366.00	91.30	343.60	7,833.56	3,149.70	-1,988.22	3,717.21	2.04	1.94	0.65
11,429.00	89.00	341.70	7,833.40	3,209.83	-2,007.01	3,778.99	4.74	-3.65	-3.02
11,493.00	87.30	341.90	7,835.46	3,270.59	-2,026.99	3,841.90	2.67	-2.66	0.31
11,557.00	87.70	341.80	7,838.25	3,331.35	-2,046.91	3,904.77	0.64	0.63	-0.16
11,620.00	87.70	341.70	7,840.78	3,391.13	-2,066.62	3,966.69	0.16	0.00	-0.16
11,682.00	87.70	341.30	7,843.27	3,449.88	-2,086.28	4,027.68	0.64	0.00	-0.65
11,746.00	88.20	341.60	7,845.56	3,510.51	-2,106.62	4,090.65	0.91	0.78	0.47
11,809.00	89.50	342.40	7,846.82	3,570.42	-2,126.09	4,152.56	2.42	2.06	1.27
11,873.00	91.20	343.60	7,846.43	3,631.62	-2,144.80	4,215.24	3.25	2.66	1.88
11,936.00	92.40	342.60	7,844.45	3,691.86	-2,163.10	4,276.90	2.48	1.90	-1.59
12,000.00	91.40	340.50	7,842.33	3,752.54	-2,183.34	4,339.85	3.63	-1.56	-3.28
12,064.00	89.00	338.90	7,842.11	3,812.55	-2,205.55	4,403.17	4.51	-3.75	-2.50
12,127.00	89.50	339.10	7,842.93	3,871.37	-2,228.12	4,465.61	0.65	0.79	0.32
12,191.00	89.90	339.40	7,843.27	3,931.21	-2,250.79	4,529.01	0.78	0.63	0.47
12,255.00	89.80	339.60	7,843.44	3,991.16	-2,273.21	4,592.37	0.35	-0.16	0.31
12,319.00	89.70	339.30	7,843.72	4,051.09	-2,295.67	4,655.73	0.49	-0.16	-0.47
12,382.00	90.00	340.00	7,843.86	4,110.15	-2,317.58	4,718.08	1.21	0.48	1.11
12,446.00	90.50	339.90	7,843.60	4,170.27	-2,339.52	4,781.36	0.80	0.78	-0.16
12,509.00	90.30	339.60	7,843.16	4,229.38	-2,361.33	4,843.69	0.57	-0.32	-0.48
12,573.00	90.40	339.80	7,842.77	4,289.36	-2,383.64	4,907.03	0.16	0.16	0.00
12,636.00	91.10	339.90	7,841.95	4,348.46	-2,405.44	4,969.35	1.21	1.11	0.48
12,695.00	91.60	339.90	7,840.56	4,403.86	-2,425.71	5,027.88	0.85	0.85	0.00
12,756.00	91.60	339.90	7,838.85	4,461.12	-2,446.66	5,087.99	0.00	0.00	0.00

Projection to TD-12756.00' MD



Company: Trans Energy Inc.
Project: Marion County, West Virginia (NAD 27)
Site: Freeland, et al (Grid)
Well: 2H
Wellbore: Wellbore #1
Design: Surveys

Local Co-ordinate Reference: Well 2H
TVD Reference: WELL @ 1327.09usft (Nomac 280)
MD Reference: WELL @ 1327.09usft (Nomac 280)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Well Planning Conroe

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
12,758.00	7,838.85	4,461.12	-2,446.66	Projection to TD-12758.00' MD

Received
 Office of Oil & Gas
 DEC 22 2014