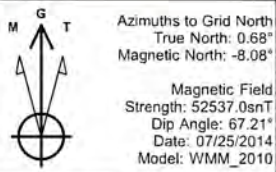


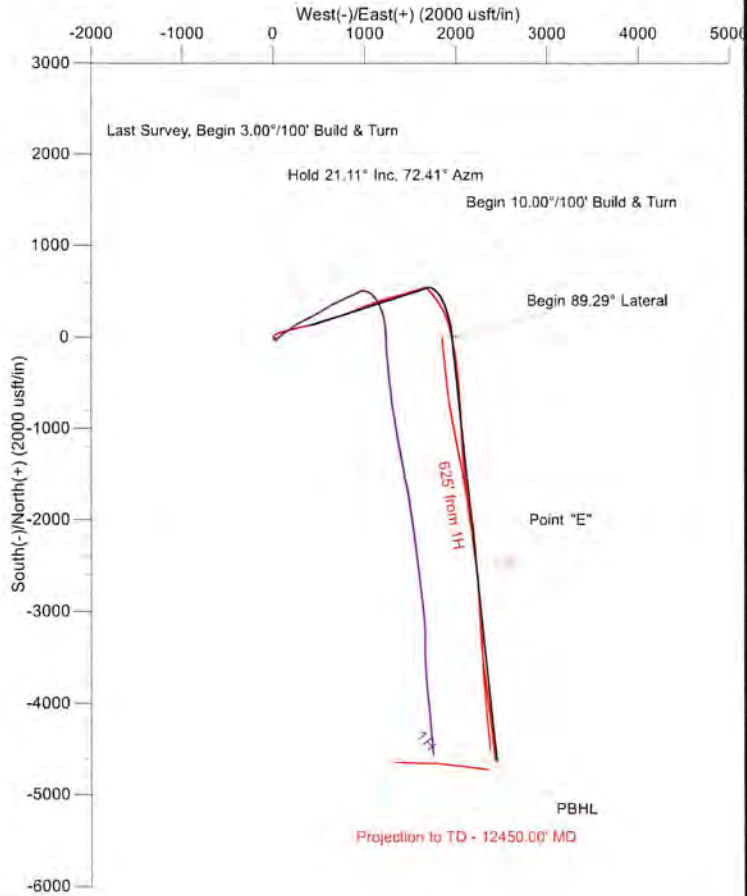
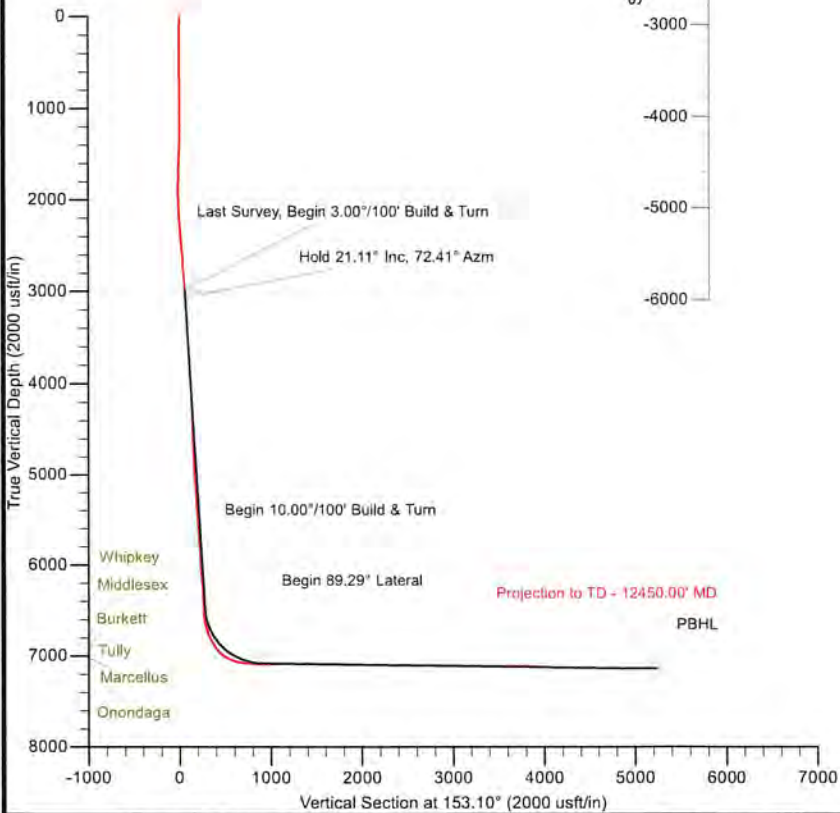


Company: Trans Energy Inc.
 Site: Sivert
 Well: 2H
 Project: Marshall County, West Virginia (NAD 27)
 Rig Name: H&P 285



ANNOTATIONS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	V Sect	Departure	Annotation	
3045.00	19.40	78.20	2980.02	129.72	387.88	59.81	0.00	Last Survey, Begin 3.00°/100' Build & Turn	
3132.77	21.11	72.41	3062.37	137.48	417.22	66.16	30.37	Hold 21.11° Inc, 72.41° Azm	
6823.45	21.11	72.41	6505.39	539.21	1684.25	281.14	1359.56	Begin 10.00°/100' Build & Turn	
7758.27	89.29	174.00	7081.00	0.00	1956.92	885.38	2011.68	Begin 89.29° Lateral	
12408.76	89.29	174.00	7139.00	-4624.66	2442.99	5229.56	6661.81	PBHL	

US State Plane 1927 (Exact solution)
 West Virginia North 4701
 Created By: HLH
 Date: 9:01, September 11 2014
 Plan: Design #2



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 WV Department of
 Environmental Protection

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.



Trans Energy Inc.

Marshall County, West Virginia (NAD 27)

Sivert

2H

Wellbore #1

Survey: MS MWD

Standard Survey Report

11 September, 2014

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Environmental Protection



05/06/2016

Company:	Trans Energy Inc.	Local Co-ordinate Reference:	Well 2H
Project:	Marshall County, West Virginia (NAD 27)	TVD Reference:	WELL @ 1437.76usft (H&P 285)
Site:	Sivert	MD Reference:	WELL @ 1437.76usft (H&P 285)
Well:	2H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM 5000.1 Conroe DB

Project	Marshall 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:	495,014.67 usft	Latitude: 39° 51' 15.160116 N
	+E/-W	0.00 usft	Easting:	1,700,633.38 usft	Longitude: 80° 33' 58.795580 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level: 1,417.76 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	WMM_2010	07/25/2014	-8.76	67.21	52,537

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	153.10	

Survey Program	Date	09/11/2014			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
143.00	12,450.00	MS MWD (Wellbore #1)	MWD	MWD - Standard	

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
143.00	0.70	45.00	143.00	0.62	0.62	-0.27	0.49	0.49	0.00
233.00	0.70	44.90	232.99	1.40	1.39	-0.61	0.00	0.00	-0.11
323.00	1.20	38.10	322.98	2.53	2.36	-1.18	0.57	0.56	-7.56
417.00	1.30	43.30	416.95	4.08	3.70	-1.96	0.16	0.11	5.53
506.00	0.40	6.01	505.94	5.12	4.43	-2.56	1.14	-1.01	-41.90
600.00	0.90	215.40	599.94	4.85	4.03	-2.50	1.34	0.53	-160.22
693.00	1.50	208.90	692.92	3.18	3.02	-1.47	0.66	0.65	-6.99
784.00	0.40	197.00	783.91	1.84	2.35	-0.57	1.22	-1.21	-13.08
878.00	0.60	169.20	877.90	1.04	2.35	0.14	0.33	0.21	-29.57
973.00	0.60	157.80	972.90	0.09	2.63	1.11	0.13	0.00	-12.00
1,074.00	0.60	150.40	1,073.89	-0.86	3.09	2.16	0.08	0.00	-7.33
1,169.00	0.70	35.40	1,168.89	-0.82	3.67	2.39	1.16	0.11	-121.05
1,264.00	1.30	18.60	1,263.87	0.68	4.35	1.37	0.70	0.63	-17.68
1,358.00	2.10	17.10	1,357.83	3.33	5.20	-0.62	0.85	0.85	-1.60

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Company:	Trans Energy Inc.	Local Co-ordinate Reference:	Well 2H
Project:	Marshall County, West Virginia (NAD 27)	TVD Reference:	WELL @ 1437.76usft (H&P 285)
Site:	Sivert	MD Reference:	WELL @ 1437.76usft (H&P 285)
Well:	2H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM 5000.1 Conroe DB

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)
1,453.00	2.20	10.00	1,452.77	6.79	6.03	-3.33	0.30	0.11	-7.47
1,548.00	2.70	14.20	1,547.68	10.76	6.90	-6.47	0.56	0.53	4.42
1,642.00	3.70	27.00	1,641.53	15.61	8.82	-9.93	1.30	1.06	13.62
1,737.00	5.60	42.10	1,736.22	21.78	13.32	-13.40	2.36	2.00	15.89
1,832.00	8.20	51.20	1,830.53	29.46	21.70	-16.46	2.96	2.74	9.58
1,926.00	11.10	61.40	1,923.19	38.00	34.88	-18.11	3.57	3.09	10.85
2,021.00	14.50	69.60	2,015.83	46.53	54.06	-17.03	4.05	3.58	8.63
2,116.00	18.10	74.40	2,107.00	54.64	79.43	-12.79	4.04	3.79	5.05
2,210.00	20.70	76.10	2,195.65	62.56	109.63	-6.19	2.83	2.77	1.81
2,305.00	20.70	75.59	2,284.52	70.77	142.19	1.21	0.19	0.00	-0.54
2,399.00	20.80	75.80	2,372.42	79.00	174.46	8.48	0.13	0.11	0.22
2,494.00	20.10	75.70	2,461.43	87.17	206.63	15.75	0.74	-0.74	-0.11
2,589.00	19.90	76.10	2,550.70	95.09	238.14	22.94	0.26	-0.21	0.42
2,683.00	19.70	75.90	2,639.15	102.79	269.04	30.05	0.22	-0.21	-0.21
2,778.00	19.70	76.70	2,728.59	110.37	300.15	37.37	0.28	0.00	0.84
2,872.00	20.00	77.30	2,817.00	117.55	331.25	45.03	0.39	0.32	0.64
2,966.00	19.50	77.80	2,905.47	124.40	362.27	52.96	0.56	-0.53	0.53
3,045.00	19.40	78.20	2,979.96	129.87	388.00	59.72	0.21	-0.13	0.51
3,169.00	17.70	75.10	3,097.52	138.93	426.37	69.01	1.58	-1.37	-2.50
3,264.00	18.00	75.20	3,187.95	146.39	454.52	75.09	0.32	0.32	0.11
3,358.00	19.50	76.10	3,276.96	153.87	483.80	81.66	1.63	1.60	0.96
3,453.00	20.00	71.80	3,366.37	162.76	514.62	87.69	1.62	0.53	-4.53
3,547.00	20.30	69.80	3,454.62	173.41	545.20	92.02	0.80	0.32	-2.13
3,641.00	20.50	69.50	3,542.73	184.80	575.92	95.76	0.24	0.21	-0.32
3,736.00	23.40	71.50	3,630.83	196.62	609.40	100.37	3.15	3.05	2.11
3,830.00	25.00	73.00	3,716.57	208.35	646.09	106.51	1.82	1.70	1.60
3,924.00	21.30	70.80	3,802.99	219.78	681.23	112.21	4.04	-3.94	-2.34
4,019.00	21.60	72.30	3,891.41	230.77	714.18	117.32	0.66	0.32	1.58
4,113.00	23.00	72.30	3,978.37	241.61	748.16	123.03	1.49	1.49	0.00
4,207.00	21.30	71.20	4,065.43	252.70	781.82	128.37	1.86	-1.81	-1.17
4,301.00	21.30	71.80	4,153.01	263.53	814.20	133.36	0.23	0.00	0.64
4,396.00	20.40	70.50	4,241.79	274.45	846.20	138.10	1.07	-0.95	-1.37
4,490.00	20.80	68.60	4,329.78	286.01	877.18	141.81	0.83	0.43	-2.02
4,585.00	22.90	65.40	4,417.96	299.86	909.70	144.17	2.54	2.21	-3.37
4,679.00	24.50	66.20	4,504.02	315.34	944.16	145.95	1.74	1.70	0.85
4,774.00	21.00	65.40	4,591.62	330.38	977.67	147.70	3.70	-3.68	-0.84
4,868.00	19.30	69.90	4,679.87	342.73	1,007.58	150.22	2.45	-1.81	4.79
4,962.00	21.70	69.20	4,767.91	354.24	1,038.42	153.91	2.57	2.55	-0.74
5,056.00	23.30	73.30	4,854.76	365.75	1,072.47	159.05	2.38	1.70	4.36
5,151.00	25.00	69.40	4,941.45	378.22	1,109.26	164.58	2.45	1.79	-4.11
5,245.00	21.50	67.70	5,027.80	391.75	1,143.81	168.14	3.79	-3.72	-1.81
5,339.00	20.40	74.10	5,115.60	402.77	1,175.50	172.65	2.70	-1.17	6.81
5,434.00	21.10	76.60	5,204.43	411.27	1,208.06	179.80	1.19	0.74	2.63
5,528.00	20.90	73.70	5,292.19	419.90	1,240.62	186.83	1.13	0.21	-3.09

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Company:	Trans Energy Inc.	Local Co-ordinate Reference:	Well 2H
Project:	Marshall County, West Virginia (NAD 27)	TVD Reference:	WELL @ 1437.76usft (H&P 285)
Site:	Sivert	MD Reference:	WELL @ 1437.76usft (H&P 285)
Well:	2H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM 5000.1 Conroe DB

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)
5,622.00	21.80	73.80	5,379.74	429.48	1,273.47	193.16	0.96	0.96	0.11
5,716.00	21.20	74.40	5,467.20	438.92	1,306.60	199.73	0.68	-0.64	0.64
5,811.00	20.00	75.90	5,556.13	447.49	1,338.91	206.69	1.38	-1.26	1.58
5,905.00	19.00	75.00	5,644.73	455.37	1,369.28	213.41	1.11	-1.06	-0.96
6,000.00	18.60	72.50	5,734.67	463.93	1,398.66	219.07	0.95	-0.42	-2.63
6,094.00	17.20	74.20	5,824.11	472.22	1,426.34	224.20	1.59	-1.49	1.81
6,188.00	17.70	69.70	5,913.79	480.96	1,453.11	228.52	1.53	0.53	-4.79
6,282.00	19.30	69.10	6,002.93	491.46	1,481.03	231.78	1.71	1.70	-0.64
6,377.00	18.20	78.30	6,092.91	500.07	1,510.23	237.32	3.32	-1.16	9.68
6,472.00	19.20	80.50	6,182.89	505.66	1,540.17	245.88	1.29	1.05	2.32
6,566.00	21.10	75.00	6,271.14	512.59	1,571.76	253.99	2.85	2.02	-5.85
6,660.00	17.80	69.10	6,359.78	522.10	1,601.54	258.98	4.08	-3.51	-6.28
6,755.00	18.00	68.60	6,450.18	532.64	1,628.77	261.91	0.27	0.21	-0.53
6,818.00	15.30	69.80	6,510.53	539.06	1,645.64	263.81	4.32	-4.29	1.90
6,849.00	14.60	78.80	6,540.49	541.23	1,653.31	265.34	7.81	-2.26	29.03
6,881.00	15.00	89.60	6,571.43	542.04	1,661.41	268.28	8.70	1.25	33.75
6,913.00	13.80	102.40	6,602.43	541.25	1,669.28	272.55	10.60	-3.75	40.00
6,944.00	14.10	110.80	6,632.52	539.12	1,676.42	277.69	6.60	0.97	27.10
6,976.00	15.40	121.20	6,663.47	535.53	1,683.70	284.18	9.20	4.06	32.50
7,007.00	17.30	130.30	6,693.22	530.42	1,690.74	291.92	10.27	6.13	29.35
7,039.00	19.10	136.80	6,723.62	523.52	1,697.95	301.34	8.47	5.63	20.31
7,070.00	21.80	138.30	6,752.67	515.53	1,705.25	311.77	8.87	8.71	4.84
7,102.00	24.40	137.90	6,782.10	506.18	1,713.64	323.90	8.14	8.13	-1.25
7,133.00	26.00	136.70	6,810.15	496.49	1,722.59	336.59	5.42	5.16	-3.87
7,165.00	29.10	141.40	6,838.52	485.30	1,732.26	350.95	11.83	9.69	14.69
7,197.00	31.80	145.00	6,866.10	472.31	1,741.95	366.92	10.18	8.44	11.25
7,228.00	33.80	145.10	6,892.16	458.54	1,751.57	383.55	6.45	6.45	0.32
7,260.00	36.50	143.40	6,918.32	443.60	1,762.34	401.75	8.97	8.44	-5.31
7,291.00	40.40	144.60	6,942.60	428.00	1,773.66	420.78	12.81	12.58	3.87
7,323.00	44.70	144.80	6,966.16	410.34	1,786.16	442.18	13.44	13.44	0.63
7,354.00	50.40	144.60	6,987.08	391.68	1,799.38	464.80	18.39	18.39	-0.65
7,386.00	55.60	143.90	7,006.33	370.95	1,814.31	490.04	16.34	16.25	-2.19
7,417.00	60.60	144.60	7,022.71	349.60	1,829.68	516.04	16.24	16.13	2.26
7,449.00	65.90	147.40	7,037.11	325.91	1,845.63	544.38	18.31	16.56	8.75
7,481.00	70.40	150.50	7,049.02	300.47	1,860.94	573.99	16.69	14.06	9.69
7,512.00	72.20	152.00	7,058.96	274.73	1,875.06	603.34	7.40	5.81	4.84
7,544.00	76.80	156.20	7,067.51	247.00	1,888.51	634.15	19.14	14.38	13.13
7,575.00	80.40	160.20	7,073.64	218.79	1,899.78	664.41	17.17	11.61	12.90
7,607.00	83.10	164.50	7,078.23	188.62	1,909.38	695.66	15.75	8.44	13.44
7,702.00	85.80	168.40	7,087.42	96.72	1,931.52	787.63	4.98	2.84	4.11
7,796.00	89.60	168.60	7,091.19	4.70	1,950.24	878.16	4.05	4.04	0.21
7,891.00	89.40	167.30	7,092.02	-88.20	1,970.07	969.98	1.38	-0.21	-1.37
7,986.00	91.90	169.50	7,090.94	-181.24	1,989.17	1,061.60	3.51	2.63	2.32

Company:	Trans Energy Inc.	Local Co-ordinate Reference:	Well 2H
Project:	Marshall County, West Virginia (NAD 27)	TVD Reference:	WELL @ 1437.76usft (H&P 285)
Site:	Sivert	MD Reference:	WELL @ 1437.76usft (H&P 285)
Well:	2H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM 5000.1 Conroe DB

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)
8,080.00	91.70	173.20	7,087.99	-274.11	2,003.30	1,150.81	3.94	-0.21	3.94
8,175.00	91.00	175.20	7,085.75	-368.59	2,012.89	1,239.41	2.23	-0.74	2.11
8,269.00	90.20	174.30	7,084.77	-462.19	2,021.49	1,326.77	1.28	-0.85	-0.96
8,364.00	89.50	174.30	7,085.02	-556.72	2,030.93	1,415.34	0.74	-0.74	0.00
8,459.00	90.00	176.00	7,085.43	-651.37	2,038.96	1,503.39	1.87	0.53	1.79
8,554.00	89.60	176.80	7,085.76	-746.18	2,044.93	1,590.64	0.94	-0.42	0.84
8,648.00	89.20	177.30	7,086.75	-840.05	2,049.76	1,676.54	0.68	-0.43	0.53
8,743.00	88.70	177.80	7,088.49	-934.95	2,053.82	1,763.01	0.74	-0.53	0.53
8,838.00	88.10	177.20	7,091.14	-1,029.82	2,057.97	1,849.49	0.89	-0.63	-0.63
8,932.00	89.00	176.00	7,093.52	-1,123.62	2,063.54	1,935.66	1.60	0.96	-1.28
9,027.00	88.50	176.80	7,095.59	-1,218.41	2,069.50	2,022.89	0.99	-0.53	0.84
9,122.00	88.70	176.80	7,097.91	-1,313.24	2,074.80	2,109.86	0.21	0.21	0.00
9,217.00	89.50	173.80	7,099.41	-1,407.89	2,082.59	2,197.79	3.27	0.84	-3.16
9,311.00	90.00	171.50	7,099.82	-1,501.11	2,094.61	2,286.37	2.50	0.53	-2.45
9,406.00	90.20	171.50	7,099.65	-1,595.07	2,108.65	2,376.51	0.21	0.21	0.00
9,501.00	89.80	170.80	7,099.65	-1,688.94	2,123.27	2,466.83	0.85	-0.42	-0.74
9,595.00	89.40	171.10	7,100.31	-1,781.77	2,138.05	2,556.30	0.53	-0.43	0.32
9,690.00	88.70	170.10	7,101.88	-1,875.48	2,153.57	2,646.89	1.28	-0.74	-1.05
9,785.00	89.80	171.20	7,103.12	-1,969.20	2,169.00	2,737.46	1.64	1.16	1.16
9,879.00	89.60	173.10	7,103.62	-2,062.32	2,181.84	2,826.31	2.03	-0.21	2.02
9,974.00	89.70	172.50	7,104.20	-2,156.57	2,193.74	2,915.75	0.64	0.11	-0.63
10,068.00	89.90	175.90	7,104.53	-2,250.07	2,203.24	3,003.43	3.62	0.21	3.62
10,162.00	89.60	175.70	7,104.94	-2,343.82	2,210.13	3,090.15	0.38	-0.32	-0.21
10,257.00	89.30	176.00	7,105.85	-2,438.56	2,217.00	3,177.75	0.45	-0.32	0.32
10,351.00	88.90	174.90	7,107.32	-2,532.25	2,224.46	3,264.68	1.25	-0.43	-1.17
10,445.00	88.90	176.00	7,109.13	-2,625.94	2,231.91	3,351.60	1.17	0.00	1.17
10,540.00	88.30	175.60	7,111.45	-2,720.65	2,238.87	3,439.21	0.76	-0.63	-0.42
10,634.00	87.60	175.80	7,114.81	-2,814.33	2,245.91	3,525.94	0.77	-0.74	0.21
10,729.00	91.30	177.50	7,115.72	-2,909.14	2,251.46	3,613.00	4.29	3.89	1.79
10,823.00	91.30	177.50	7,113.59	-3,003.03	2,255.56	3,698.59	0.00	0.00	0.00
10,918.00	88.50	175.30	7,113.76	-3,097.83	2,261.52	3,785.83	3.75	-2.95	-2.32
11,012.00	88.00	176.10	7,116.63	-3,191.52	2,268.57	3,872.57	1.00	-0.53	0.85
11,106.00	87.60	175.20	7,120.24	-3,285.18	2,275.69	3,959.31	1.05	-0.43	-0.96
11,201.00	87.20	176.00	7,124.55	-3,379.80	2,282.97	4,046.99	0.94	-0.42	0.84
11,295.00	89.10	174.60	7,127.58	-3,473.43	2,290.67	4,133.97	2.51	2.02	-1.49
11,390.00	89.30	172.80	7,128.91	-3,567.84	2,301.09	4,222.88	1.91	0.21	0.89
11,484.00	89.50	173.40	7,129.89	-3,661.15	2,312.39	4,311.21	0.67	0.21	0.64
11,578.00	89.90	173.40	7,130.38	-3,754.53	2,323.19	4,399.37	0.43	0.43	0.00
11,673.00	89.70	172.40	7,130.72	-3,848.80	2,334.93	4,488.75	1.07	-0.21	-1.05
11,767.00	89.30	173.40	7,131.54	-3,942.07	2,346.55	4,577.19	1.15	-0.43	1.06
11,861.00	88.60	172.00	7,133.26	-4,035.29	2,358.49	4,665.73	1.66	-0.74	-1.49
11,956.00	87.90	172.40	7,136.16	-4,129.37	2,371.38	4,755.45	0.85	-0.74	0.42
12,050.00	89.80	174.30	7,138.05	-4,222.71	2,382.26	4,843.62	2.86	2.02	2.02

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Company:	Trans Energy Inc.	Local Co-ordinate Reference:	Well 2H
Project:	Marshall County, West Virginia (NAD 27)	TVD Reference:	WELL @ 1437.76usft (H&P 285)
Site:	Sivert	MD Reference:	WELL @ 1437.76usft (H&P 285)
Well:	2H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	EDM 5000.1 Conroe DB

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)
12,144.00	89.00	173.50	7,139.03	-4,316.17	2,392.25	4,931.49	1.20	-0.85	-0.85
12,239.00	90.50	173.20	7,139.44	-4,410.53	2,403.25	5,020.61	1.61	1.58	-0.32
12,333.00	90.30	173.90	7,138.79	-4,503.93	2,413.81	5,108.68	0.77	-0.21	0.74
12,401.00	89.80	173.80	7,138.73	-4,571.54	2,421.09	5,172.27	0.75	-0.74	-0.15
12,450.00	89.80	173.80	7,138.90	-4,620.25	2,426.39	5,218.11	0.00	0.00	0.00
Projection to TD - 12450.00' MD									

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
12,450.00	7,138.90	-4,620.25	2,426.39	Projection to TD - 12450.00' MD

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