

WR-35
Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: July 9, 2013
API #: 47-103-02570

**REVISED FOR
COMPLETION**

Farm name: Maury, Dorthy M. Operator Well No.: Maury et al Unit 1 #2H

LOCATION: Elevation: 730' Quadrangle: Porters Falls

District: Magnolia County: Wetzel
Latitude: 3,010 Feet South of 39 Deg. 37 Min. 30 Sec.
Longitude 9,300 Feet West of 80 Deg. 45 Min. 00 Sec.

Company: **Stone Energy Corporation**

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
6000 Hampton Center, Suite B Morgantown, WV 26505	20"	35'	35'	Sanded In
Agent: Tim McGregor	13.375"	653'	653'	684 - CTS
Inspector: Derek Haught	9.625"	2,140'	2,140	738 - CTS
Date Permit Issued: 9/16/2010 & 10/11/2011	5.5"		11,795'	2,826
Date Well Work Commenced: 10/19/2010	2.375"		7,251'	
Date Well Work Completed: 10/17/2012				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): 6,468				
Total Measured Depth (ft): 11,795				
Fresh Water Depth (ft.): 35				
Salt Water Depth (ft.): 1,876				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): 530				
Void(s) encountered (N/Y) Depth(s) N/A				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation Marcellus Pay zone depth (ft) 7,312' - 11,716'

Gas: Initial open flow 260 MCF/d Oil: Initial open flow 0 Bbl/d

Final open flow 2,300 MCF/d Final open flow 0 Bbl/d

Time of open flow between initial and final tests 150 Hours

Static rock Pressure 1,745 psig (surface pressure) after 1 Hours

Second producing formation _____ Pay zone depth (ft) _____

Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d

Final open flow _____ MCF/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests _____ Hours

Static rock Pressure _____ psig (surface pressure) after _____ Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

W.A. [Signature]
Signature

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Date

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Were core samples taken? Yes _____ No X

Were cuttings caught during drilling? Yes X No _____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list MWD Gamma Ray, Mud Log, and CBL

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

Perforated 17 intervals from 11,716' MD to 7,312' MD. Performed 17 individual stages of slick water stimulation using 6,408,623 gals fresh water, 747,023 lbs. 100M sand, and 6,044,543 lbs. 40/70M sand. Average BDP = 6,941 psi, Average TP = 7,381 psi, Average MTP = 9,118 psi, Average ISIP = 4,317 psi, and Average Injection Rate = 81.4 bpm.

See Attachment for FracFocus Information.

Plug Back Details Including Plug Type and Depth(s): N/A

Formations Encountered: Surface:	Top Depth	/	Bottom Depth
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See attached sheet for formations encountered and their depths.

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Maury et al Unit 1 #2H
API 47-103-02570
Stone Energy Corporation

	Horizontal		Bottom (ft	
	Top (ft TVD)	Top (ft MD)	TVD)	MD)
Sandstone & Shale	Surface	*	290	
Red Rock	290	*	312	
Sandstone & Shale	312	*	333	
Red Rock	333	*	338	
Sandstone & Shale	338	*	360	
Red Rock	360	*	367	
Sandstone & Shale	367	*	383	
Red Rock	383	*	394	
Sandstone & Shale	394	*	530	
Pittsburgh Coal	530	*	534	
Sandstone & Shale	534	*	1650	
Little Lime	1650	*	1670	
Big Lime	1670	*	1815	
Big Injun	1815	*	1983	
Sandstone & Shale	1983	*	2330	
Berea sandstone	2330	~	2374	
Shale	2374	~	2533	
Gordon	2533	~	2592	
Sandstone & Shale	2592	~	4648	4668
Riley	4648	4668	~ 4673	4693
Sandstone & Shale	4673	4693	~ 4825	4858
Benson	4825	4858	~ 4898	4921
Undiff Devonian Shale	4898	4921	~ 5684	5721
Rhinestreet	5684	5721	~ 6075	6203
Cashaqua	6075	6203	~ 6191	6414
Middlesex	6191	6414	~ 6207	6453
West River	6207	6453	~ 6219	6584
Geneseo	6219	6584	~ 6269	6645
Tully limestone	6269	6645	~ 6308	6790
Hamilton	6308	6790	~ 6334	6896
Marcellus	6334	6896	~ 6467	11795
TD	6467	11795		

* From Driller's Log
~ From MWD Gamma Log

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Fracture Date:	9/14/2012
State:	West Virginia
County/Parish:	Wetzel County
API Number:	4710302570
Operator Name:	Stone Energy
Well Name and Number:	Maury et al Unit 1 #2H
Longitude:	-80.78289
Latitude:	39.61685
Long/Lat Projection:	NAD27
Production Type:	Gas
True Vertical Depth (TVD):	6468
Total Water Volume (gal)*:	6408623

Hydraulic Fracturing Fluid Composition

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
WF115, Slickwater, SAPPHIRE VF	Schlumberger	Corrosion Inhibitor, Bactericide, Scale Inhibitor, AntiFoam Agent, Surfactant, Acid, Breaker, Gelling Agent, Friction Reducer, Iron Control Agent, Clay Control Agent, Buffer, Rheology Modifier, ClearFRAC XT J589, Propping Agent, Fluid Loss Additive	Water (Including Mix Water Supplied by Client)*	-		88.56729%	
			Crystalline silica	14808-60-7	98.49947%	11.26116%	
			Hydrochloric acid	7647-01-0	0.84260%	0.09633%	
			Carbohydrate polymer	Proprietary	0.30453%	0.03482%	
			Ammonium sulfate	Proprietary	0.18774%	0.02146%	
			Propan-2-ol	67-63-0	0.11993%	0.01371%	
			Polyethylene glycol monohexyl ether	31726-34-8	0.06273%	0.00717%	
			Erucic amidopropyl dimethyl betaine	149879-98-1	0.05655%	0.00647%	
			Glutaraldehyde	111-30-8	0.05357%	0.00612%	
			Diammonium peroxodisulphate	7727-54-0	0.01625%	0.00186%	
			Calcium chloride	10043-52-4	0.01233%	0.00141%	
			Ethane-1,2-diol	107-21-1	0.00438%	0.00050%	
			Trisodium ortho phosphate	7601-54-9	0.00438%	0.00050%	
			Methanol	67-56-1	0.00373%	0.00043%	
			Sodium erythorbate	6381-77-7	0.00339%	0.00039%	
			Aliphatic acids	Proprietary	0.00280%	0.00032%	
			Aliphatic alcohols, ethoxylated #2	Proprietary	0.00280%	0.00032%	
			Polypropylene glycol	25322-69-4	0.00145%	0.00017%	
			Prop-2-yn-1-ol	107-19-7	0.00093%	0.00011%	
			Sodium carbonate	497-19-8	0.00072%	0.00008%	

* Total Water Volume sources may include fresh water, produced water, and/or recycled water
 ** Information is based on the maximum potential for concentration and thus the total may be over 100%
 Report ID: RPT-8821 (Generated on 11/30/2012 9:53 AM)

All component information listed was obtained from the supplier's Material Safety Data Sheets (MSDS). As such, the Operator is not responsible for inaccurate and/or incomplete information. Any questions regarding the content of the MSDS should be directed to the supplier who provided it. The Occupational Safety and Health Administration's (OSHA) regulations govern the criteria for the disclosure of this information. Please note that Federal Law protects "proprietary", "trade secret", and "confidential business information" and the criteria for how this information is reported on an MSDS is subject to 29 CFR 1910.1200(i) and Appendix D.

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Job Number: 23D1211254	State/Country: West Virginia
Company: Stone Energy	Declination: -8.43
Lease/Well: Maury et al Unit 1 # 2H	Grid: 0.82
Location: Maury Pad	File name: D:\WINSERVE\JOBSIM1#2H.SVY
Rig Name: Saxon 141	Date/Time: 24-Dec-11 / 23:45
RKB: 18	Curve Name: Maury et al 1 #2H As Drilled
G.L. or M.S.L.: 734	

Scientific Drilling

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane 155.11
Vertical Section Referenced to Wellhead
Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
100.00	.27	237.96	100.00	-.12	-.20	.03	.24	237.96	.27
200.00	.28	250.47	200.00	-.33	-.63	.04	.71	242.22	.06
300.00	.08	299.41	300.00	-.38	-.92	-.04	1.00	247.62	.24
400.00	.18	4.49	400.00	-.19	-.97	-.24	.99	259.01	.16
500.00	.10	289.81	500.00	.00	-1.04	-.44	1.04	269.89	.18
600.00	.17	214.31	600.00	-.09	-1.20	-.42	1.21	265.49	.17
700.00	.24	72.13	700.00	-.15	-1.09	-.32	1.10	261.99	.39
800.00	.57	73.78	799.99	.05	-.41	-.22	.42	276.91	.33
900.00	.72	71.55	899.99	.39	.66	-.07	.77	59.62	.15
1000.00	.47	14.43	999.98	.98	1.36	-.32	1.68	54.11	.61
1100.00	.47	33.45	1099.98	1.72	1.69	-.85	2.41	44.41	.16
1200.00	.56	33.32	1199.98	2.47	2.18	-1.33	3.30	41.42	.09
1300.00	.60	51.40	1299.97	3.21	2.86	-1.71	4.30	41.71	.19
1400.00	.47	49.12	1399.97	3.80	3.58	-1.94	5.22	43.26	.13
1500.00	.58	48.69	1499.96	4.41	4.27	-2.20	6.14	44.10	.11
1600.00	.66	71.28	1599.96	4.93	5.20	-2.28	7.16	46.53	.26
1700.00	.86	67.02	1699.95	5.40	6.43	-2.19	8.40	49.97	.21
1800.00	.89	51.80	1799.94	6.18	7.73	-2.35	9.90	51.38	.23
1900.00	1.09	31.08	1899.92	7.47	8.83	-3.06	11.57	49.08	.41
2000.00	.85	13.12	1999.91	9.01	9.49	-4.18	13.09	46.50	.68
2100.00	1.08	335.38	2099.89	10.59	9.27	-5.70	14.07	41.20	.66
2126.01	.98	334.51	2125.90	11.01	9.07	-6.17	14.27	39.48	.39
2139.90	.99	334.01	2139.79	11.23	8.97	-6.41	14.37	38.62	.09
MWD Surveys									
2202.00	1.81	328.93	2201.87	12.55	8.23	-7.92	15.00	33.25	.33

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Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
2266.00	1.62	326.15	2265.84	14.17	7.20	-9.82	15.89	26.95	.32
2330.00	1.11	322.48	2329.82	15.41	6.32	-11.32	16.65	22.30	.81
2394.00	.46	138.25	2393.82	15.71	6.11	-11.68	16.86	21.26	2.45
2457.00	2.15	146.50	2456.80	14.53	6.93	-10.27	16.10	25.50	2.69
2521.00	2.95	144.74	2520.74	12.19	8.55	-7.46	14.89	35.04	1.26
2584.00	2.86	135.77	2583.66	9.74	10.58	-4.38	14.38	47.37	.73
2648.00	3.14	123.17	2647.57	7.64	13.16	-1.39	15.21	59.88	1.12
2712.00	3.22	114.36	2711.47	5.94	16.27	1.46	17.31	69.95	.77
2775.00	3.76	105.70	2774.35	4.65	19.87	4.15	20.40	76.84	1.20
2839.00	4.42	110.19	2838.19	3.23	24.20	7.26	24.41	82.40	1.15
2902.00	4.89	114.35	2900.98	1.28	28.93	11.01	28.95	87.46	.92
2966.00	5.52	113.11	2964.72	-1.05	34.24	15.36	34.26	91.76	1.00
3030.00	6.07	104.98	3028.39	-3.13	40.34	19.82	40.46	94.44	1.54
3094.00	6.55	103.65	3092.00	-4.87	47.16	24.26	47.41	95.90	.78
3157.00	6.84	103.68	3154.57	-6.60	54.29	28.84	54.69	96.94	.46
3221.00	7.34	105.94	3218.09	-8.63	61.93	33.89	62.53	97.93	.89
Bottom Line Check									
3284.00	8.10	106.74	3280.51	-11.01	70.05	39.47	70.91	98.93	1.22
3348.00	8.45	105.89	3343.85	-13.60	78.89	45.54	80.05	99.78	.58
3411.00	8.74	105.06	3406.14	-16.11	87.96	51.64	89.43	100.38	.50
3475.00	8.92	105.51	3469.38	-18.70	97.44	57.97	99.22	100.86	.30
3538.00	8.32	104.86	3531.67	-21.17	106.55	64.05	108.64	101.24	.96
3602.00	8.03	102.92	3595.02	-23.36	115.38	69.75	117.73	101.45	.63
3665.00	8.71	104.41	3657.35	-25.53	124.29	75.47	126.89	101.61	1.13
3729.00	8.62	103.08	3720.62	-27.82	133.66	81.49	136.52	101.76	.34
3793.00	8.56	102.84	3783.90	-29.97	142.97	87.36	146.08	101.84	.11
3857.00	9.43	104.53	3847.11	-32.34	152.69	93.60	156.08	101.96	1.42
3920.00	10.05	105.14	3909.20	-35.07	163.00	100.42	166.73	102.14	1.00
3984.00	9.06	103.20	3972.32	-37.68	173.29	107.12	177.34	102.27	1.63
4047.00	8.46	103.42	4034.58	-39.89	182.63	113.05	186.94	102.32	.95
4111.00	9.02	106.79	4097.84	-42.43	192.01	119.30	196.64	102.46	1.19
Bottom Line Check									
4175.00	8.97	108.67	4161.05	-45.48	201.54	126.08	206.61	102.72	.47
4238.00	8.70	107.44	4223.30	-48.48	210.74	132.67	216.24	102.95	.52
4302.00	8.81	106.80	4286.56	-51.35	220.05	139.19	225.96	103.13	.23
4365.00	8.98	107.82	4348.80	-54.25	229.35	145.73	235.68	103.31	.37
4428.00	9.34	108.86	4411.00	-57.40	238.87	152.60	245.67	103.51	.63
4492.00	9.31	107.54	4474.15	-60.64	248.72	159.69	256.00	103.70	.34
4555.00	9.06	108.74	4536.34	-63.77	258.28	166.55	266.03	103.87	.50
4619.00	9.18	106.84	4599.53	-66.87	267.93	173.42	276.15	104.01	.51
4682.00	9.30	104.89	4661.72	-69.63	277.66	180.03	286.26	104.68	.53
4746.00	9.37	106.70	4724.87	-72.46	287.65	186.79	296.64	104.04	.47
4808.00	8.92	108.71	4786.08	-75.45	297.04	193.46	306.47	104.28	.89
4872.00	8.63	108.74	4849.33	-78.59	306.28	200.19	316.21	104.39	.45
4935.00	8.79	109.49	4911.60	-81.71	315.30	206.82	325.71	104.53	.31
4999.00	9.04	109.06	4974.83	-84.98	324.66	213.73	335.00	104.68	.40
5062.00	8.89	106.26	5037.06	-87.96	334.01	220.37	345.40	104.75	.31

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Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	Dogleg Severity Deg/100
5126.00	9.02	104.01	5100.28	-90.56	343.63	226.77	355.36	104.76	.58
Bottom Line Check									
5189.00	9.08	104.86	5162.50	-93.03	353.22	233.05	365.27	104.76	.23
5252.00	9.12	107.06	5224.71	-95.77	362.80	239.57	375.23	104.79	.56
5316.00	9.25	106.75	5287.88	-98.74	372.58	246.38	385.44	104.84	.22
5380.00	9.17	105.58	5351.06	-101.59	382.41	253.11	395.68	104.88	.32
5443.00	9.05	105.03	5413.26	-104.23	392.03	259.55	405.65	104.89	.24
5475.00	8.80	106.06	5444.88	-105.56	396.82	262.76	410.62	104.90	.93
5488.00	8.74	107.49	5457.73	-106.13	398.72	264.08	412.60	104.91	1.74
5520.00	8.77	109.74	5489.35	-107.68	403.33	267.43	417.46	104.95	1.07
5552.00	9.94	109.15	5520.93	-109.41	408.24	271.07	422.64	105.00	3.67
5584.00	11.32	109.44	5552.38	-111.37	413.81	275.18	428.53	105.06	4.32
5616.00	12.88	109.70	5583.66	-113.61	420.13	279.88	435.22	105.13	4.88
5647.00	15.13	110.14	5613.74	-116.17	427.18	285.17	442.69	105.21	7.27
Bottom Line									
5679.00	17.36	110.31	5644.46	-119.27	435.58	291.51	451.61	105.31	6.97
5711.00	19.00	109.39	5674.86	-122.65	444.97	298.54	461.56	105.41	5.20
5743.00	20.90	109.23	5704.94	-126.26	455.27	306.15	472.46	105.50	5.94
5774.00	22.26	109.53	5733.77	-130.05	466.03	314.11	483.83	105.59	4.40
5806.00	24.31	108.89	5763.16	-134.21	477.97	322.91	496.46	105.68	6.45
5838.00	26.75	106.73	5792.03	-138.41	491.10	332.25	510.24	105.74	8.16
5870.00	29.69	106.97	5820.23	-142.80	505.58	342.32	525.36	105.77	9.19
5902.00	31.88	108.50	5847.72	-147.79	521.18	353.42	541.73	105.83	7.27
5932.00	33.76	107.92	5872.93	-152.87	536.63	364.53	557.98	105.90	6.35
5964.00	35.90	107.78	5899.19	-158.47	554.02	376.93	576.24	105.96	6.69
5994.00	37.66	108.85	5923.22	-164.12	571.07	389.23	594.19	106.03	6.24
6025.00	39.25	107.13	5947.50	-170.07	589.41	402.34	613.45	106.10	6.18
Bottom Line Check									
6056.00	40.77	107.02	5971.24	-175.92	608.46	415.67	633.38	106.13	4.91
6086.00	42.96	105.06	5993.58	-181.45	627.70	428.78	653.40	106.12	8.50
6117.00	44.30	103.72	6016.02	-186.76	648.42	442.32	674.78	106.07	5.25
6148.00	46.77	102.47	6037.73	-191.77	669.97	455.93	696.87	105.97	8.47
6178.00	48.69	101.18	6057.91	-196.31	691.69	469.20	719.01	105.84	7.15
6209.00	50.45	102.16	6078.01	-201.09	714.80	483.25	742.55	105.71	6.17
6239.00	52.35	103.30	6096.73	-206.26	737.67	497.57	765.96	105.62	6.99
6270.00	53.49	104.38	6115.42	-212.17	761.68	513.04	790.68	105.57	4.61
6301.00	55.98	103.81	6133.32	-218.33	786.23	528.96	815.98	105.52	8.17
6331.00	57.84	104.13	6149.70	-224.40	810.62	544.73	841.10	105.47	6.26
6362.00	59.46	104.94	6165.82	-231.05	836.24	561.54	867.57	105.45	5.68
6393.00	61.54	105.48	6181.09	-238.13	862.28	578.92	894.55	105.44	6.88
6424.00	64.07	106.95	6195.26	-245.83	888.75	597.05	922.12	105.46	9.19
6454.00	66.77	107.50	6207.73	-253.91	914.80	615.35	949.39	105.51	9.15
6485.00	68.62	108.46	6219.50	-262.76	942.08	634.86	978.04	105.51	8.52
6516.00	70.09	110.55	6230.43	-272.45	969.42	655.15	1006.98	105.71	7.89
Bottom Line									
6547.00	71.53	112.33	6240.62	-283.15	996.67	676.33	1036.11	105.86	7.14
6578.00	72.77	114.40	6250.12	-294.86	1023.75	698.35	1065.37	106.07	7.14

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Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
6609.00	73.34	116.80	6259.16	-307.67	1050.50	721.22	1094.62	106.32	7.63
6640.00	74.08	118.99	6267.86	-321.59	1076.79	744.92	1123.79	106.63	7.19
6670.00	74.49	122.40	6275.98	-336.33	1101.62	768.74	1151.82	106.98	11.03
6701.00	74.68	125.07	6284.22	-352.93	1126.47	794.25	1180.46	107.40	8.33
6732.00	74.55	126.97	6292.45	-370.50	1150.64	820.37	1208.82	107.85	5.92
6763.00	74.83	129.57	6300.64	-389.02	1174.11	847.04	1236.88	108.33	8.14
6794.00	75.10	132.01	6308.68	-408.58	1196.78	874.32	1264.60	108.85	7.65
6824.00	75.78	134.95	6316.22	-428.55	1217.84	901.31	1291.05	109.39	9.75
6854.00	76.26	136.95	6323.47	-449.48	1238.08	928.81	1317.15	109.95	6.66
6885.00	75.85	139.56	6330.94	-471.92	1258.11	957.60	1343.71	110.56	8.28
6915.00	75.97	142.14	6338.25	-494.49	1276.48	985.80	1368.91	111.18	8.35
6946.00	76.77	143.49	6345.55	-518.49	1294.69	1015.23	1394.65	111.82	4.96
6978.00	77.91	145.99	6352.57	-543.98	1312.71	1045.94	1420.96	112.51	8.41
7010.00	78.64	148.88	6359.07	-570.38	1329.57	1076.99	1446.76	113.22	9.13
7041.00	79.55	150.95	6364.94	-596.72	1344.83	1107.30	1471.27	113.93	7.18
7073.00	80.10	153.08	6370.59	-624.53	1359.61	1138.75	1496.19	114.67	6.77
Bottom Line									
7104.00	80.86	156.02	6375.72	-652.14	1372.74	1169.32	1519.77	115.41	9.67
7136.00	81.52	156.73	6380.62	-681.11	1385.42	1200.94	1543.79	116.18	3.01
7167.00	81.62	158.00	6385.16	-709.41	1397.22	1231.58	1567.00	116.92	4.07
7199.00	81.82	160.16	6389.77	-738.99	1408.52	1263.16	1590.61	117.68	6.71
7231.00	82.33	162.67	6394.19	-769.03	1418.62	1294.66	1613.66	118.46	7.93
7263.00	83.51	164.41	6398.13	-799.48	1427.62	1326.08	1636.24	119.25	6.54
7295.00	85.59	164.53	6401.17	-830.17	1436.15	1357.51	1658.83	120.03	6.51
7326.00	87.05	164.52	6403.16	-859.98	1444.40	1388.02	1681.03	120.77	4.71
7358.00	87.38	164.20	6404.71	-890.76	1453.02	1419.57	1704.33	121.51	1.44
7390.00	87.75	164.13	6406.07	-921.52	1461.74	1451.14	1727.97	122.23	1.18
7453.00	87.38	164.87	6408.75	-982.17	1478.56	1513.24	1775.05	123.60	1.31
7517.00	87.48	165.18	6411.62	-1043.94	1495.09	1576.22	1823.48	124.92	.51
7581.00	87.58	166.16	6414.38	-1105.89	1510.91	1639.08	1872.39	126.20	1.54
7644.00	87.79	166.23	6416.92	-1167.02	1525.93	1700.85	1921.04	127.41	.35
7708.00	88.02	166.13	6419.26	-1229.12	1541.21	1763.62	1971.31	128.57	.39
7771.00	88.56	166.91	6421.14	-1290.36	1555.89	1825.35	2021.34	129.67	1.51
7835.00	89.13	167.62	6422.43	-1352.77	1569.99	1887.90	2072.41	130.75	1.42
7898.00	89.50	168.46	6423.18	-1414.40	1583.05	1949.30	2122.87	131.78	1.46
7961.00	89.93	169.63	6423.50	-1476.25	1595.02	2010.44	2173.34	132.79	1.98
8025.00	89.43	168.58	6423.86	-1539.10	1607.12	2072.54	2225.23	133.76	1.82
8089.00	89.03	167.22	6424.72	-1601.67	1620.53	2134.94	2278.48	134.66	2.21
bottom line check									
8152.00	87.99	165.89	6426.35	-1662.92	1635.17	2196.67	2332.18	135.48	2.68
8216.00	87.78	166.00	6428.72	-1724.96	1650.70	2259.48	2387.53	136.26	.37
8279.00	88.02	166.38	6431.02	-1786.10	1665.73	2321.27	2442.29	137.00	.71
8342.00	88.26	166.01	6433.07	-1847.24	1680.76	2383.06	2497.45	137.70	.70
8406.00	88.39	165.65	6434.94	-1909.27	1696.42	2445.92	2554.04	138.38	.60
8469.00	88.05	165.31	6436.90	-1970.23	1712.21	2507.86	2610.26	139.01	.76
8533.00	88.09	164.87	6439.05	-2032.04	1728.66	2570.85	2667.86	139.61	.69
8596.00	87.82	165.68	6441.30	-2092.93	1744.67	2632.82	2724.74	140.19	1.35

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Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	Dogleg Severity Deg/100
8660.00	88.39	165.63	6443.42	-2154.90	1760.51	2695.71	2782.63	140.75	.89
8724.00	88.99	166.73	6444.88	-2217.03	1775.80	2758.50	2840.54	141.31	1.96
8788.00	89.77	167.38	6445.57	-2279.40	1790.13	2821.11	2898.32	141.86	1.59
8851.00	90.54	167.53	6445.40	-2340.89	1803.82	2882.65	2955.26	142.38	1.25
Bottom Line									
8915.00	90.17	167.52	6445.01	-2403.38	1817.64	2945.15	3013.31	142.90	.58
8978.00	90.34	167.83	6444.73	-2464.93	1831.09	3006.64	3070.63	143.39	.56
9042.00	89.60	167.99	6444.76	-2527.51	1844.49	3069.05	3128.97	143.88	1.18
9106.00	88.83	169.37	6445.64	-2590.26	1857.06	3131.26	3187.17	144.36	2.47
9170.00	88.36	168.66	6447.20	-2653.06	1869.25	3193.36	3245.43	144.83	1.33
9233.00	88.62	168.13	6448.87	-2714.75	1881.92	3254.66	3303.26	145.27	.94
9296.00	87.35	167.92	6451.08	-2776.34	1894.98	3316.02	3361.40	145.68	2.04
9360.00	87.05	168.09	6454.21	-2838.87	1908.26	3378.34	3420.62	146.09	.54
9423.00	87.48	168.89	6457.21	-2900.53	1920.82	3439.55	3478.89	146.49	1.44
9487.00	88.42	170.21	6459.50	-2963.43	1932.42	3501.49	3537.82	146.89	2.53
9551.00	90.30	171.83	6460.22	-3026.64	1942.41	3563.03	3596.31	147.31	3.88
bottom line check									
9614.00	89.43	171.18	6460.37	-3088.94	1951.72	3623.47	3653.87	147.71	1.72
9677.00	88.96	170.16	6461.25	-3151.10	1961.93	3684.15	3711.96	148.09	1.78
9741.00	89.36	169.36	6462.19	-3214.08	1973.30	3746.06	3771.50	148.45	1.40
9805.00	90.03	168.60	6462.53	-3276.89	1985.54	3808.20	3831.50	148.79	1.58
9868.00	90.54	168.52	6462.22	-3338.64	1998.03	3869.47	3890.84	149.10	.82
9932.00	90.27	168.36	6461.76	-3401.34	2010.86	3931.74	3951.29	149.41	.49
9996.00	90.64	168.52	6461.26	-3464.04	2023.68	3994.02	4011.84	149.71	.63
10060.00	89.66	167.83	6461.09	-3526.68	2036.80	4056.36	4072.60	149.99	1.87
10123.00	89.26	167.35	6461.68	-3588.21	2050.34	4117.87	4132.69	150.26	.99
10187.00	89.53	166.51	6462.36	-3650.55	2064.81	4180.50	4194.03	150.51	1.38
10251.00	90.00	166.30	6462.62	-3712.75	2079.85	4243.26	4255.62	150.74	.80
10315.00	89.46	166.34	6462.92	-3774.94	2094.99	4306.04	4317.30	150.97	.85
10378.00	89.66	166.67	6463.41	-3836.19	2109.69	4367.80	4378.03	151.19	.61
10442.00	90.20	167.23	6463.48	-3898.54	2124.14	4430.44	4439.66	151.42	1.22
Bottom Line CK.									
10506.00	90.44	166.85	6463.13	-3960.91	2138.49	4493.05	4501.33	151.64	.70
10570.00	89.80	166.29	6462.99	-4023.16	2153.36	4555.78	4563.19	151.84	1.33
10633.00	89.56	165.75	6463.34	-4084.29	2168.58	4617.64	4624.30	152.03	.94
10697.00	89.97	165.27	6463.61	-4146.25	2184.59	4680.58	4686.56	152.22	.99
10760.00	90.37	164.56	6463.42	-4207.08	2200.98	4742.66	4748.04	152.38	1.29
10824.00	89.70	164.47	6463.38	-4268.76	2218.07	4805.80	4810.63	152.54	1.06
10887.00	89.56	165.10	6463.79	-4329.55	2234.61	4867.90	4872.21	152.70	1.02
10951.00	90.13	165.31	6463.96	-4391.43	2250.95	4930.91	4934.71	152.86	.95
11015.00	90.13	166.84	6463.82	-4453.54	2266.35	4993.74	4997.04	153.01	2.39
11079.00	90.40	167.57	6463.52	-4515.95	2280.52	5056.32	5059.11	153.16	1.22
11142.00	89.46	166.95	6463.60	-4577.40	2294.42	5117.91	5120.25	153.38	.78
Bottom Line Check									
11206.00	89.16	167.38	6464.37	-4639.80	2308.63	5180.49	5182.41	153.55	.82
11269.00	90.13	167.55	6464.76	-4701.29	2322.30	5242.03	5243.59	153.71	1.56
11333.00	89.70	168.70	6464.85	-4763.92	2335.47	5304.39	5305.60	153.88	1.22

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Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
11396.00	89.20	170.11	6465.46	-4825.84	2347.06	5365.43	5366.33	154.06	2.37
11460.00	89.83	169.22	6466.00	-4888.80	2358.54	5427.37	5427.99	154.25	1.70
11523.00	90.27	169.00	6465.94	-4950.67	2370.44	5488.50	5488.91	154.41	.78
11587.00	89.46	168.39	6466.09	-5013.43	2382.99	5550.71	5550.95	154.58	1.58
11650.00	89.09	168.31	6466.89	-5075.12	2395.71	5612.03	5612.15	154.73	.60
11714.00	89.73	167.95	6467.55	-5137.75	2408.87	5674.38	5674.43	154.88	1.15
Bottom Line CK.									
11737.00	89.97	167.71	6467.61	-5160.23	2413.72	5696.82	5696.85	154.93	1.48
Proj To Bit									
11795.00	89.97	167.71	6467.64	-5216.90	2426.06	5753.42	5753.42	155.06	.00

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