



Stone Energy Corporation

Mary Prospect
Erlewine Pad
Erlewine 1H - Slot 1H

OH

Design: 1H As Drilled

Standard Survey Report

28 January, 2015



www.scientificdrilling.com





Scientific Drilling International
Survey Report



Company:	Stone Energy Corporation	Local Co-ordinate Reference:	Well Erlewine 1H - Slot 1H
Project:	Mary Prospect	TVD Reference:	GL 1212' & KB 18' @ 1230.00ft (Saxon 141)
Site:	Erlewine Pad	MD Reference:	GL 1212' & KB 18' @ 1230.00ft (Saxon 141)
Well:	Erlewine 1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	1H As Drilled	Database:	Northeast District

Project	Mary Prospect, Wetzel County, West Virginia		
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		

Site	Erlewine Pad				
Site Position:		Northing:	433,674.00 usft	Latitude:	39° 41' 0.404 N
From:	Map	Easting:	1,634,878.00 usft	Longitude:	80° 47' 50.515 W
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence:	-0.83 °

Well	Erlewine 1H - Slot 1H					
Well Position	+N/-S	0.00 ft	Northing:	433,674.00 usft	Latitude:	39° 41' 0.404 N
	+E/-W	0.00 ft	Easting:	1,634,878.00 usft	Longitude:	80° 47' 50.515 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	0.00 ft	Ground Level:	1,212.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	User Defined	1/13/2015	-7.63	67.13	52,499

Design	1H As Drilled				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00		

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329.52
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Survey Program	Date	1/28/2015			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
18.00	2,195.00	Survey 1 - SDI Gyro (OH)	SDI Standard Keeper 103	SDI Standard Wireline Keeper ver 1.0.3	
2,464.00	11,630.00	Survey 2 - SDI MWD (OH)	MWD SDI	MWD - Standard ver 1.0.1	

WV Department of
Environmental Protection

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	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	
18.00	0.00	0.00	18.00	0.00	0.00	0.00	0.00	0.00	0.00	
Ground Level										
108.00	0.52	60.79	108.00	0.20	0.36	-0.01	0.58	0.58	0.00	
First SDI Gyro Survey										
208.00	0.22	78.75	208.00	0.46	0.94	-0.08	0.32	-0.30	17.96	
308.00	0.51	95.22	307.99	0.46	1.57	-0.41	0.31	0.29	16.47	
408.00	0.42	88.24	407.99	0.43	2.38	-0.84	0.11	-0.09	-6.98	
508.00	0.37	85.79	507.99	0.46	3.07	-1.16	0.05	-0.05	-2.45	



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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	1H As Drilled	Database:	Northeast District

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Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	W. Dept. Rate (°/100usft)	Department of Environmental Protection
608.00	0.18	94.90	607.99	0.47	3.55	-1.39	0.19	-0.19	9.11	
708.00	0.19	108.07	707.99	0.41	3.86	-1.61	0.04	0.01	13.17	
808.00	0.25	124.76	807.99	0.23	4.20	-1.93	0.09	0.06	16.69	
908.00	0.30	140.93	907.99	-0.10	4.54	-2.39	0.09	0.05	16.17	
1,008.00	0.38	148.74	1,007.98	-0.58	4.88	-2.98	0.09	0.08	7.81	
1,108.00	0.51	134.56	1,107.98	-1.18	5.37	-3.74	0.17	0.13	-14.18	
1,208.00	0.46	136.72	1,207.98	-1.78	5.96	-4.56	0.05	-0.05	2.16	
1,308.00	0.14	124.26	1,307.98	-2.15	6.34	-5.06	0.32	-0.32	-12.46	
1,345.00	0.20	130.24	1,344.98	-2.21	6.43	-5.17	0.17	0.16	16.16	
1,408.00	0.28	115.69	1,407.97	-2.35	6.65	-5.40	0.16	0.13	-23.10	
1,508.00	0.31	73.48	1,507.97	-2.38	7.13	-5.67	0.21	0.03	-42.21	
1,608.00	0.12	120.15	1,607.97	-2.35	7.48	-5.82	0.24	-0.19	46.67	
1,708.00	0.26	90.06	1,707.97	-2.41	7.79	-6.03	0.17	0.14	-30.09	
1,808.00	0.34	26.47	1,807.97	-2.14	8.15	-5.98	0.32	0.08	-63.59	
1,908.00	0.20	356.81	1,907.97	-1.70	8.28	-5.66	0.19	-0.14	-29.66	
2,008.00	0.43	3.50	2,007.97	-1.15	8.29	-5.20	0.23	0.23	6.69	
2,108.00	0.35	1.85	2,107.97	-0.47	8.32	-4.63	0.08	-0.08	-1.65	
2,195.00	0.09	6.86	2,194.97	-0.14	8.34	-4.35	0.30	-0.30	5.76	
Last SDI Gyro Survey										
2,464.00	0.55	336.76	2,463.96	1.26	7.86	-2.90	0.18	0.17	-11.19	
First SDI MWD @ 2464 MD										
2,558.00	2.18	305.24	2,557.93	2.70	6.22	-0.82	1.85	1.73	-33.53	
2,653.00	2.52	276.69	2,652.85	3.99	2.67	2.08	1.27	0.36	-30.05	
2,747.00	3.24	257.24	2,746.74	3.64	-1.98	4.14	1.28	0.77	-20.69	
2,841.00	3.80	253.64	2,840.56	2.18	-7.56	5.71	0.64	0.60	-3.83	
2,935.00	4.86	267.74	2,934.29	1.14	-14.52	8.35	1.59	1.13	15.00	
3,029.00	6.38	274.35	3,027.84	1.38	-23.71	13.22	1.75	1.62	7.03	
3,123.00	7.62	272.26	3,121.14	2.02	-35.15	19.57	1.35	1.32	-2.22	
3,218.00	7.50	268.75	3,215.31	2.14	-47.64	26.00	0.50	-0.13	-3.69	
3,312.00	6.95	262.82	3,308.57	1.29	-59.42	31.25	0.99	-0.59	-6.31	
3,406.00	7.39	262.15	3,401.83	-0.24	-71.05	35.82	0.48	0.47	-0.71	
3,500.00	8.29	268.70	3,494.95	-1.22	-83.81	41.45	1.35	0.96	6.97	
3,594.00	7.95	264.29	3,588.01	-2.02	-97.05	47.48	0.75	-0.36	-4.69	
3,687.00	7.90	269.43	3,680.12	-2.73	-109.84	53.36	0.76	-0.05	5.53	
3,781.00	7.57	277.32	3,773.27	-2.00	-122.45	60.38	1.18	-0.35	8.39	
3,875.00	6.97	277.36	3,866.52	-0.48	-134.24	67.67	0.64	-0.64	0.04	
3,969.00	6.41	274.08	3,959.88	0.62	-145.13	74.14	0.72	-0.60	-3.49	
4,064.00	6.92	277.85	4,054.23	1.78	-156.09	80.70	0.71	0.54	3.97	
4,159.00	7.47	273.25	4,148.49	2.91	-167.93	87.68	0.84	0.58	-4.84	
4,253.00	6.84	272.63	4,241.75	3.52	-179.62	94.13	0.68	-0.67	-0.66	
4,348.00	6.38	272.12	4,336.12	3.97	-190.55	100.06	0.49	-0.48	-0.54	
4,442.00	7.34	275.16	4,429.45	4.70	-201.75	106.37	1.09	1.02	3.23	
4,536.00	7.45	271.57	4,522.67	5.41	-213.82	113.11	0.51	0.12	-3.82	
4,630.00	6.91	270.53	4,615.93	5.63	-225.56	119.25	0.59	-0.57	-1.11	



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Survey	Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	WV Department of Environmental Protection Rate (°/100usft)
	4,724.00	6.65	273.28	4,709.27	5.99	-236.65	125.19	0.44	-0.28	2.93
	4,818.00	7.08	277.19	4,802.60	7.03	-247.83	131.75	0.68	0.46	4.16
	4,913.00	7.72	279.80	4,896.81	8.85	-259.93	139.46	0.76	0.67	2.75
	5,007.00	7.62	273.85	4,989.97	10.34	-272.37	147.05	0.85	-0.11	-6.33
	5,102.00	7.19	273.69	5,084.18	11.15	-284.59	153.94	0.45	-0.45	-0.17
	5,196.00	6.21	269.27	5,177.53	11.46	-295.54	159.77	1.18	-1.04	-4.70
	5,290.00	6.91	272.54	5,270.92	11.65	-306.27	165.37	0.84	0.74	3.48
	5,384.00	7.71	269.39	5,364.15	11.83	-318.23	171.59	0.95	0.85	-3.35
	5,478.00	7.39	270.63	5,457.34	11.83	-330.58	177.86	0.38	-0.34	1.32
	5,572.00	6.95	272.34	5,550.60	12.13	-342.31	184.06	0.52	-0.47	1.82
	5,635.00	6.41	270.52	5,613.17	12.32	-349.63	187.94	0.92	-0.86	-2.89
	5,661.00	6.43	269.04	5,639.01	12.30	-352.54	189.40	0.64	0.08	-5.69
	5,691.00	6.66	269.94	5,668.82	12.27	-355.96	191.11	0.84	0.77	3.00
	5,722.00	8.84	272.04	5,699.53	12.36	-360.14	193.30	7.09	7.03	6.77
	5,752.00	11.69	275.16	5,729.05	12.71	-365.47	196.31	9.68	9.50	10.40
	5,782.00	13.95	276.71	5,758.30	13.41	-372.09	200.27	7.62	7.53	5.17
	5,812.00	15.19	278.43	5,787.33	14.41	-379.57	204.92	4.38	4.13	5.73
	5,842.00	16.96	279.43	5,816.16	15.70	-387.77	210.20	5.97	5.90	3.33
	5,873.00	18.71	280.84	5,845.67	17.38	-397.12	216.38	5.81	5.65	4.55
	5,903.00	20.85	280.11	5,873.90	19.22	-407.10	223.03	7.18	7.13	-2.43
	5,933.00	22.78	280.13	5,901.75	21.18	-418.07	230.29	6.43	6.43	0.07
	5,963.00	24.58	279.94	5,929.22	23.28	-429.94	238.11	6.01	6.00	-0.63
	5,994.00	27.10	280.92	5,957.12	25.73	-443.22	246.97	8.24	8.13	3.16
	6,024.00	28.99	281.01	5,983.59	28.41	-457.07	256.30	6.30	6.30	0.30
	6,054.00	31.19	280.93	6,009.55	31.27	-471.84	266.25	7.33	7.33	-0.27
	6,084.00	32.87	280.43	6,034.98	34.22	-487.47	276.72	5.67	5.60	-1.67
	6,114.00	34.68	280.56	6,059.92	37.26	-503.87	287.66	6.04	6.03	0.43
	6,144.00	37.28	280.90	6,084.19	40.54	-521.18	299.27	8.69	8.67	1.13
	6,175.00	39.02	280.98	6,108.57	44.17	-539.98	311.94	5.62	5.61	0.26
	6,204.00	41.05	279.73	6,130.77	47.52	-558.33	324.13	7.53	7.00	-4.31
	6,234.00	42.42	280.23	6,153.16	50.99	-578.00	337.09	4.70	4.57	1.67
	6,264.00	44.03	280.34	6,175.02	54.65	-598.22	350.50	5.37	5.37	0.37
	6,294.00	46.77	280.96	6,196.08	58.60	-619.21	364.55	9.25	9.13	2.07
	6,324.00	50.30	281.22	6,215.94	62.93	-641.26	379.47	11.78	11.77	0.87
	6,354.00	53.61	280.56	6,234.43	67.39	-664.46	395.08	11.17	11.03	-2.20
	6,385.00	56.08	279.92	6,252.28	71.89	-689.40	411.61	8.14	7.97	-2.06
	6,415.00	57.90	279.61	6,268.62	76.16	-714.19	427.86	6.13	6.07	-1.03
	6,445.00	59.78	280.34	6,284.14	80.61	-739.47	444.51	6.60	6.27	2.43
	6,476.00	61.27	279.57	6,299.40	85.27	-766.06	462.01	5.27	4.81	-2.48
	6,506.00	62.87	278.72	6,313.45	89.48	-792.22	478.91	5.89	5.33	-2.83
	6,536.00	64.19	278.18	6,326.82	93.43	-818.79	495.79	4.69	4.40	-1.80
	6,566.00	65.14	278.49	6,339.66	97.36	-845.61	512.78	3.30	3.17	1.03
	6,598.00	64.58	281.03	6,353.25	102.27	-874.16	531.49	7.40	-1.75	7.94



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6,630.00	64.93	284.97	6,366.91	108.78	-902.35	551.40	11.19	1.09	12.31
6,662.00	65.61	288.40	6,380.30	117.12	-930.19	572.71	9.96	2.13	10.72
6,694.00	66.80	291.46	6,393.21	127.10	-957.71	595.27	9.51	3.72	9.56
6,726.00	67.54	292.25	6,405.62	138.08	-985.08	618.62	3.24	2.31	2.47
6,758.00	68.46	295.22	6,417.61	150.03	-1,012.24	642.68	9.07	2.88	9.28
6,789.00	69.04	297.57	6,428.85	162.87	-1,038.11	666.87	7.31	1.87	7.58
6,821.00	71.35	300.56	6,439.69	177.50	-1,064.42	692.82	11.37	7.22	9.34
6,853.00	73.21	303.55	6,449.44	193.68	-1,090.25	719.87	10.63	5.81	9.34
6,885.00	74.73	306.66	6,458.27	211.36	-1,115.41	747.87	10.48	4.75	9.72
6,917.00	75.99	308.88	6,466.36	230.33	-1,139.88	776.62	7.78	3.94	6.94
6,949.00	76.93	310.47	6,473.86	250.19	-1,163.82	805.88	5.65	2.94	4.97
6,981.00	77.65	312.01	6,480.90	270.77	-1,187.29	835.52	5.21	2.25	4.81
7,013.00	78.32	315.08	6,487.56	292.33	-1,209.97	865.61	9.61	2.09	9.59
7,045.00	79.01	316.16	6,493.85	314.75	-1,231.92	896.06	3.95	2.16	3.38
7,076.00	79.85	318.47	6,499.54	337.15	-1,252.58	925.85	7.81	2.71	7.45
7,108.00	79.77	320.53	6,505.20	361.10	-1,273.03	956.86	6.34	-0.25	6.44
7,140.00	79.59	323.43	6,510.93	385.90	-1,292.42	988.06	8.93	-0.56	9.06
7,172.00	80.38	325.97	6,516.50	411.61	-1,310.63	1,019.46	8.20	2.47	7.94
7,204.00	81.89	328.53	6,521.43	438.20	-1,327.73	1,051.05	9.21	4.72	8.00
7,236.00	83.27	330.52	6,525.56	465.55	-1,343.82	1,082.78	7.52	4.31	6.22
7,267.00	84.73	333.02	6,528.80	492.71	-1,358.40	1,113.58	9.30	4.71	8.06
7,299.00	86.10	335.52	6,531.36	521.44	-1,372.24	1,145.37	8.89	4.28	7.81
7,331.00	87.28	337.12	6,533.21	550.70	-1,385.07	1,177.09	6.21	3.69	5.00
7,395.00	87.85	341.23	6,535.93	610.45	-1,407.80	1,240.11	6.48	0.89	6.42
7,458.00	88.99	341.80	6,537.67	670.18	-1,427.77	1,301.71	2.02	1.81	0.90
7,521.00	89.73	341.96	6,538.37	730.05	-1,447.36	1,363.25	1.20	1.17	0.25
7,585.00	89.29	341.41	6,538.92	790.80	-1,467.47	1,425.81	1.10	-0.69	-0.86
7,648.00	89.66	341.00	6,539.49	850.44	-1,487.77	1,487.50	0.88	0.59	-0.65
7,712.00	89.97	340.10	6,539.70	910.79	-1,509.08	1,550.32	1.49	0.48	-1.41
7,775.00	90.07	340.92	6,539.68	970.18	-1,530.10	1,612.17	1.31	0.16	1.30
7,838.00	89.83	341.61	6,539.73	1,029.84	-1,550.33	1,673.85	1.16	-0.38	1.10
7,902.00	90.60	341.86	6,539.49	1,090.61	-1,570.39	1,736.40	1.26	1.20	0.39
7,966.00	91.01	340.80	6,538.59	1,151.24	-1,590.87	1,799.04	1.78	0.64	-1.66
8,029.00	90.17	341.12	6,537.95	1,210.79	-1,611.43	1,860.78	1.43	-1.33	0.51
8,093.00	90.94	341.07	6,537.33	1,271.33	-1,632.16	1,923.48	1.21	1.20	-0.08
8,155.00	91.27	340.84	6,536.13	1,329.93	-1,652.39	1,984.24	0.65	0.53	-0.37
8,219.00	90.37	342.42	6,535.21	1,390.66	-1,672.56	2,046.81	2.84	-1.41	2.47
8,282.00	91.04	342.11	6,534.44	1,450.66	-1,691.74	2,108.25	1.17	1.06	-0.49
8,346.00	90.20	342.26	6,533.75	1,511.59	-1,711.32	2,170.69	1.33	-1.31	0.23
8,409.00	89.50	341.97	6,533.91	1,571.54	-1,730.67	2,232.17	1.20	-1.11	-0.46
8,473.00	90.17	341.82	6,534.10	1,632.37	-1,750.56	2,294.69	1.07	1.05	-0.23
8,537.00	90.40	341.31	6,533.78	1,693.09	-1,770.80	2,357.28	0.87	0.36	-0.80
8,600.00	89.53	342.31	6,533.82	1,752.94	-1,790.46	2,418.83	2.10	-1.38	1.59



Scientific Drilling International
Survey Report



Company:	Stone Energy Corporation	Local Co-ordinate Reference:	Well Erlewine 1H - Slot 1H
Project:	Mary Prospect	TVD Reference:	GL 1212' & KB 18' @ 1230.00ft (Saxon 141)
Site:	Erlewine Pad	MD Reference:	GL 1212' & KB 18' @ 1230.00ft (Saxon 141)
Well:	Erlewine 1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	1H As Drilled	Database:	Northeast District

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Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	WV Department of Environmental Protection Rate (°/100usft)
8,663.00	89.83	341.51	6,534.17	1,812.82	-1,810.03	2,480.37	1.36	0.48	-1.27
8,727.00	89.13	341.17	6,534.75	1,873.45	-1,830.50	2,543.01	1.22	-1.09	-0.53
8,791.00	89.50	340.96	6,535.51	1,933.99	-1,851.27	2,605.71	0.66	0.58	-0.33
8,854.00	91.65	339.63	6,534.88	1,993.29	-1,872.51	2,667.59	4.01	3.41	-2.11
8,918.00	92.05	339.58	6,532.82	2,053.25	-1,894.80	2,730.57	0.63	0.63	-0.08
8,982.00	91.68	341.45	6,530.73	2,113.54	-1,916.13	2,793.36	2.98	-0.58	2.92
9,045.00	91.14	342.09	6,529.18	2,173.36	-1,935.84	2,854.91	1.33	-0.86	1.02
9,108.00	91.81	341.91	6,527.56	2,233.26	-1,955.30	2,916.40	1.10	1.06	-0.29
9,172.00	91.31	341.83	6,525.82	2,294.06	-1,975.21	2,978.89	0.79	-0.78	-0.13
9,235.00	90.87	341.63	6,524.62	2,353.87	-1,994.95	3,040.46	0.77	-0.70	-0.32
9,299.00	91.18	341.86	6,523.48	2,414.64	-2,015.00	3,103.00	0.60	0.48	0.36
9,363.00	90.34	342.68	6,522.63	2,475.60	-2,034.48	3,165.42	1.83	-1.31	1.28
9,427.00	90.77	343.28	6,522.01	2,536.79	-2,053.22	3,227.65	1.15	0.67	0.94
9,490.00	89.90	344.07	6,521.64	2,597.25	-2,070.92	3,288.74	1.87	-1.38	1.25
9,554.00	90.87	344.66	6,521.21	2,658.88	-2,088.17	3,350.60	1.77	1.52	0.92
9,618.00	91.14	344.56	6,520.09	2,720.57	-2,105.15	3,412.39	0.45	0.42	-0.16
9,682.00	90.20	343.54	6,519.34	2,782.10	-2,122.74	3,474.34	2.17	-1.47	-1.59
9,745.00	91.04	343.88	6,518.66	2,842.57	-2,140.41	3,535.41	1.44	1.33	0.54
9,808.00	91.21	344.01	6,517.42	2,903.10	-2,157.83	3,596.42	0.34	0.27	0.21
9,872.00	90.20	342.88	6,516.63	2,964.44	-2,176.06	3,658.53	2.37	-1.58	-1.77
9,936.00	90.94	343.41	6,515.99	3,025.69	-2,194.62	3,720.73	1.42	1.16	0.83
10,000.00	91.61	342.63	6,514.57	3,086.88	-2,213.31	3,782.94	1.61	1.05	-1.22
10,063.00	91.17	340.50	6,513.04	3,146.63	-2,233.22	3,844.53	3.45	-0.70	-3.38
10,127.00	90.44	340.07	6,512.14	3,206.87	-2,254.81	3,907.40	1.32	-1.14	-0.67
10,190.00	90.50	340.59	6,511.63	3,266.19	-2,276.01	3,969.28	0.83	0.10	0.83
10,254.00	89.87	340.76	6,511.42	3,326.59	-2,297.19	4,032.07	1.02	-0.98	0.27
10,318.00	90.64	340.64	6,511.13	3,386.99	-2,318.35	4,094.86	1.22	1.20	-0.19
10,381.00	91.21	341.23	6,510.12	3,446.52	-2,338.92	4,156.60	1.30	0.90	0.94
10,443.00	91.08	340.73	6,508.88	3,505.13	-2,359.12	4,217.36	0.83	-0.21	-0.81
10,506.00	90.10	340.63	6,508.23	3,564.58	-2,379.96	4,279.16	1.56	-1.56	-0.16
10,569.00	90.64	340.64	6,507.82	3,624.01	-2,400.85	4,340.98	0.86	0.86	0.02
10,633.00	90.03	340.31	6,507.45	3,684.33	-2,422.24	4,403.81	1.08	-0.95	-0.52
10,696.00	90.60	340.15	6,507.10	3,743.61	-2,443.55	4,465.72	0.94	0.90	-0.25
10,760.00	89.93	341.53	6,506.81	3,804.07	-2,464.56	4,528.47	2.40	-1.05	2.16
10,824.00	90.13	343.85	6,506.77	3,865.16	-2,483.60	4,590.78	3.64	0.31	3.63
10,887.00	90.91	344.35	6,506.20	3,925.75	-2,500.86	4,651.75	1.47	1.24	0.79
10,949.00	90.47	345.63	6,505.45	3,985.63	-2,516.91	4,711.50	2.18	-0.71	2.06
11,013.00	91.55	345.02	6,504.33	4,047.53	-2,533.12	4,773.07	1.94	1.69	-0.95
11,076.00	91.41	343.40	6,502.70	4,108.13	-2,550.26	4,833.99	2.58	-0.22	-2.57
11,140.00	90.87	342.49	6,501.43	4,169.30	-2,569.03	4,896.23	1.65	-0.84	-1.42
11,203.00	89.50	342.31	6,501.22	4,229.35	-2,588.07	4,957.64	2.19	-2.17	-0.29
11,267.00	89.87	341.48	6,501.57	4,290.18	-2,607.96	5,020.16	1.42	0.58	-1.30
11,330.00	90.34	342.08	6,501.46	4,350.02	-2,627.66	5,081.72	1.21	0.75	0.95
11,393.00	90.67	341.46	6,500.90	4,409.86	-2,647.37	5,143.28	1.11	0.52	-0.98



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Survey Report



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Project:	Mary Prospect	TVD Reference:	GL 1212' & KB 18' @ 1230.00ft (Saxon 141)
Site:	Erlewine Pad	MD Reference:	GL 1212' & KB 18' @ 1230.00ft (Saxon 141)
Well:	Erlewine 1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	1H As Drilled	Database:	Northeast District

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
11,457.00	89.73	341.63	6,500.68	4,470.57	-2,667.63	5,205.88	1.49	-1.47	0.27	
11,520.00	90.70	341.70	6,500.44	4,530.37	-2,687.45	5,267.47	1.54	1.54	0.11	
11,562.00	91.31	341.73	6,499.71	4,570.24	-2,700.62	5,308.52	1.45	1.45	0.07	
Last SDI MWD @ 11562 MD										
11,630.00	91.31	341.73	6,498.15	4,634.79	-2,721.93	5,374.96	0.00	0.00	0.00	
Projection to Bit @ 11630 MD										

Design Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
18.00	18.00	0.00	0.00	Ground Level	
108.00	108.00	0.20	0.36	First SDI Gyro Survey	
2,195.00	2,194.97	-0.14	8.34	Last SDI Gyro Survey	
2,464.00	2,463.96	1.26	7.86	First SDI MWD @ 2464 MD	
11,562.00	6,499.71	4,570.24	-2,700.62	Last SDI MWD @ 11562 MD	
11,630.00	6,498.15	4,634.79	-2,721.93	Projection to Bit @ 11630 MD	

Checked By: _____ Approved By: _____ Date: _____

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