



Scientific Drilling International
Survey Report



Company:	Stone Energy	Local Co-ordinate Reference:	Well Mason-Conlon 4H
Project:	Heather Prospect (NAD 27)	TVD Reference:	GL 1202' & KB 18' @ 1220.00ft (Saxon 141)
Site:	Mason-Conlon Pad	MD Reference:	GL 1202' & KB 18' @ 1220.00ft (Saxon 141)
Well:	Mason-Conlon 4H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Northeast District

Project	Heather Prospect (NAD 27), 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	Mason-Conlon Pad				
Site Position:	Northing:	412,527.00 usft	Latitude:	39° 37' 34.138 N	
From: Map	Easting:	1,654,495.00 usft	Longitude:	80° 43' 35.920 W	
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence:	-0.78 °

Well	Mason-Conlon 4H					
Well Position	+N/-S	0.00 ft	Northing:	412,568.00 usft	Latitude:	39° 37' 34.540 N
	+E/-W	0.00 ft	Easting:	1,654,473.00 usft	Longitude:	80° 43' 36.209 W
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft	Ground Level:	1,202.00 ft	

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	3/19/2013	-8.54	67.19	52,611

Design	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	346.52	

Survey Program	Date	4/11/2013			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
100.00	6,451.04	Survey 1 - Gyro (OH)	SDI Standard Keeper 103	SDI Standard Wireline Keeper ver 1.0.3	
6,510.01	7,985.02	Survey 2 - Curve (OH)	MWD SDI	MWD - Standard ver 1.0.1	
8,049.02	12,325.00	Survey 3 - Lateral (OH)	MWD SDI	MWD - Standard ver 1.0.1	

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	
100.00	0.63	353.38	100.00	0.55	-0.06	0.55	0.63	0.63	0.00	
First SDI Gyro Survey										
200.00	0.11	295.47	200.00	1.13	-0.21	1.15	0.58	-0.52	-57.91	
300.00	0.13	207.81	300.00	1.07	-0.35	1.13	0.17	0.02	-87.66	
400.00	0.33	224.49	400.00	0.77	-0.61	0.89	0.21	0.20	16.68	
500.00	0.38	217.83	499.99	0.30	-1.01	0.53	0.06	0.05	-6.66	
600.00	0.39	205.26	599.99	-0.27	-1.36	0.06	0.08	0.01	-12.57	
700.00	0.09	175.37	699.99	-0.65	-1.50	-0.29	0.32	-0.30	-29.89	

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Well:	Mason-Conlon 4H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Northeast District

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)
800.00	0.18	100.03	799.99	-0.76	-1.34	-0.43	0.18	0.09	-75.34
900.00	0.15	65.18	899.99	-0.73	-1.07	-0.46	0.10	-0.03	-34.85
1,000.00	0.08	27.96	999.99	-0.62	-0.91	-0.39	0.10	-0.07	-37.22
1,100.00	0.19	67.72	1,099.99	-0.49	-0.73	-0.31	0.14	0.11	39.76
1,200.00	0.29	16.47	1,199.99	-0.19	-0.50	-0.06	0.23	0.10	-51.25
1,300.00	0.16	36.07	1,299.99	0.17	-0.35	0.25	0.15	-0.13	19.60
1,400.00	0.08	2.06	1,399.99	0.35	-0.26	0.40	0.10	-0.08	-34.01
1,500.00	0.12	118.21	1,499.99	0.37	-0.17	0.40	0.17	0.04	116.15
1,600.00	0.14	306.15	1,599.99	0.40	-0.18	0.43	0.26	0.02	-172.06
1,700.00	0.14	261.02	1,699.99	0.45	-0.40	0.53	0.11	0.00	-45.13
1,800.00	0.34	266.05	1,799.99	0.41	-0.81	0.59	0.20	0.20	5.03
1,900.00	0.29	287.52	1,899.99	0.46	-1.35	0.77	0.13	-0.05	21.47
2,000.00	0.38	300.72	1,999.99	0.71	-1.88	1.13	0.12	0.09	13.20
2,100.00	0.21	293.59	2,099.99	0.95	-2.33	1.47	0.17	-0.17	-7.13
2,200.00	0.15	214.72	2,199.98	0.92	-2.57	1.49	0.23	-0.06	-78.87
2,300.00	0.42	210.98	2,299.98	0.50	-2.83	1.14	0.27	0.27	-3.74
2,400.00	0.34	152.15	2,399.98	-0.08	-2.88	0.59	0.38	-0.08	-58.83
2,500.01	0.41	179.59	2,499.98	-0.70	-2.74	-0.04	0.19	0.07	27.44
2,600.01	0.20	20.18	2,599.98	-0.89	-2.68	-0.24	0.60	-0.21	-159.41
2,700.01	0.77	22.43	2,699.98	-0.11	-2.36	0.44	0.57	0.57	2.25
2,800.01	2.73	55.10	2,799.93	1.87	-0.15	1.86	2.12	1.96	32.67
2,900.01	3.47	56.63	2,899.78	4.90	4.33	3.76	0.74	0.74	1.53
3,000.01	3.69	54.16	2,999.58	8.45	9.46	6.01	0.27	0.22	-2.47
3,100.01	4.23	54.68	3,099.35	12.47	15.08	8.61	0.54	0.54	0.52
3,200.01	4.47	54.14	3,199.06	16.88	21.25	11.47	0.24	0.24	-0.54
3,300.01	5.22	48.79	3,298.70	22.16	27.83	15.07	0.87	0.75	-5.35
3,400.01	5.86	49.38	3,398.23	28.48	35.13	19.51	0.64	0.64	0.59
3,500.01	6.74	49.84	3,497.63	35.59	43.49	24.48	0.88	0.88	0.46
3,600.01	7.13	49.51	3,596.90	43.41	52.69	29.93	0.39	0.39	-0.33
3,700.01	8.10	49.68	3,696.01	51.99	62.78	35.93	0.97	0.97	0.17
3,800.01	8.77	52.17	3,794.93	61.23	74.17	42.26	0.76	0.67	2.49
3,900.01	9.39	51.04	3,893.68	71.03	86.54	48.91	0.65	0.62	-1.13
4,000.01	10.83	50.43	3,992.12	82.15	100.12	56.55	1.44	1.44	-0.61
4,100.01	11.43	51.53	4,090.24	94.30	115.12	64.87	0.64	0.60	1.10
4,200.01	11.35	53.85	4,188.27	106.27	130.83	72.85	0.47	-0.08	2.32
4,300.01	12.33	60.33	4,286.15	117.36	148.05	79.62	1.65	0.98	6.48
4,400.01	11.94	68.76	4,383.92	126.39	166.97	84.00	1.81	-0.39	8.43
4,500.01	10.38	67.86	4,482.03	133.53	184.96	86.75	1.57	-1.56	-0.90
4,600.01	10.49	54.13	4,580.39	142.26	200.68	91.58	2.48	0.11	-13.73
4,700.01	12.22	45.27	4,678.44	155.05	215.58	100.54	2.45	1.73	-8.86
4,800.01	11.88	41.08	4,776.24	170.25	229.86	112.00	0.94	-0.34	-4.19
4,900.01	14.35	54.37	4,873.64	185.24	246.71	122.65	3.88	2.47	13.29
5,000.01	18.25	53.17	4,969.61	201.85	269.32	133.53	3.91	3.90	-1.20

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Well:	Mason-Conlon 4H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	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)
5,100.01	21.94	48.45	5,063.51	223.64	295.85	148.54	4.03	3.69	-4.72
5,200.01	23.91	45.59	5,155.61	250.21	324.31	167.75	2.26	1.97	-2.86
5,300.01	25.77	45.47	5,246.35	279.64	354.28	189.38	1.86	1.86	-0.12
5,400.01	26.25	46.11	5,336.22	310.22	385.72	211.79	0.56	0.48	0.64
5,500.01	26.19	48.77	5,425.94	340.09	418.25	233.26	1.18	-0.06	2.66
5,600.01	26.81	48.41	5,515.43	369.61	451.72	254.16	0.64	0.62	-0.36
5,700.01	28.00	48.85	5,604.21	400.03	486.26	275.69	1.21	1.19	0.44
5,800.01	28.38	49.14	5,692.35	431.02	521.91	297.53	0.40	0.38	0.29
5,900.01	27.73	49.47	5,780.60	461.69	557.57	319.04	0.67	-0.65	0.33
6,000.01	26.27	53.06	5,869.70	490.11	592.94	338.44	2.19	-1.46	3.59
6,100.01	26.29	53.45	5,959.36	516.60	628.42	355.93	0.17	0.02	0.39
6,200.01	26.79	51.40	6,048.83	543.85	663.82	374.18	1.04	0.50	-2.05
6,300.01	27.56	51.04	6,137.79	572.45	699.43	393.70	0.79	0.77	-0.36
6,400.01	27.92	51.60	6,226.30	601.54	735.76	413.52	0.44	0.36	0.56
6,451.01	28.10	51.87	6,271.32	616.37	754.57	423.56	0.43	0.35	0.53
Last SDI Gyro Survey									
6,451.04	28.10	51.87	6,271.35	616.38	754.58	423.57	0.43	0.35	0.53
6,510.00	27.13	51.25	6,323.59	633.37	775.99	435.10	1.72	-1.65	-1.05
6,510.01	27.13	51.25	6,323.60	633.37	775.99	435.10	0.00	0.00	0.00
First SDI MWD Survey									
6,574.01	26.14	50.19	6,380.81	651.53	798.20	447.58	1.72	-1.55	-1.66
6,637.01	24.97	50.44	6,437.65	668.89	819.11	459.59	1.87	-1.86	0.40
6,669.01	24.14	51.18	6,466.75	677.29	829.42	465.36	2.77	-2.59	2.31
6,701.01	24.21	47.01	6,495.95	685.87	839.32	471.39	5.34	0.22	-13.03
6,733.01	26.13	41.96	6,524.91	695.59	848.83	478.62	9.00	6.00	-15.78
6,765.01	28.36	38.70	6,553.36	706.76	858.30	487.28	8.38	6.97	-10.19
6,795.01	30.86	35.63	6,579.44	718.58	867.23	496.69	9.74	8.33	-10.23
6,825.01	33.77	33.69	6,604.79	731.77	876.34	507.40	10.30	9.70	-6.47
6,855.01	36.45	32.77	6,629.33	746.20	885.79	519.24	9.11	8.93	-3.07
6,886.01	39.42	31.85	6,653.78	762.31	895.98	532.53	9.75	9.58	-2.97
6,916.01	41.02	31.44	6,676.69	778.80	906.14	546.20	5.41	5.33	-1.37
6,947.01	43.60	29.27	6,699.61	796.81	916.67	561.25	9.56	8.32	-7.00
6,977.01	44.93	27.45	6,721.10	815.24	926.61	576.85	6.13	4.43	-6.07
7,008.01	47.28	25.10	6,742.59	835.27	936.49	594.03	9.34	7.58	-7.58
7,038.01	49.43	22.90	6,762.52	855.75	945.60	611.82	9.02	7.17	-7.33
7,068.01	51.63	20.94	6,781.60	877.23	954.24	630.70	8.90	7.33	-6.53
7,098.01	53.93	18.77	6,799.74	899.70	962.35	650.66	9.59	7.67	-7.23
7,129.01	55.29	16.64	6,817.70	923.77	970.03	672.28	7.11	4.39	-6.87
7,160.01	55.66	15.42	6,835.27	948.32	977.08	694.51	3.46	1.19	-3.94
7,190.01	56.45	13.46	6,852.02	972.42	983.28	716.50	6.03	2.63	-6.53
7,220.01	57.41	11.53	6,868.39	996.96	988.72	739.10	6.27	3.20	-6.43
7,250.01	59.43	9.20	6,884.10	1,022.10	993.31	762.48	9.44	6.73	-7.77
7,280.01	61.21	6.84	6,898.96	1,047.91	996.94	786.73	9.05	5.93	-7.87
7,311.01	63.21	3.73	6,913.41	1,075.21	999.46	812.69	10.97	6.45	-10.03



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Site:	Mason-Conlon Pad	MD Reference:	GL 1202' & KB 18' @ 1220.00ft (Saxon 141)
Well:	Mason-Conlon 4H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Northeast District

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)
7,341.01	65.46	1.03	6,926.41	1,102.22	1,000.58	838.70	11.05	7.50	-9.00
7,371.01	68.01	358.49	6,938.26	1,129.78	1,000.46	865.52	11.52	8.50	-8.47
7,402.01	69.45	356.15	6,949.50	1,158.63	999.10	893.90	8.43	4.65	-7.55
7,432.02	70.29	354.06	6,959.83	1,186.69	996.70	921.75	7.12	2.80	-6.97
7,463.02	71.53	352.66	6,969.97	1,215.79	993.31	950.83	5.85	4.00	-4.52
7,494.02	72.60	350.60	6,979.51	1,244.97	989.02	980.21	7.20	3.45	-6.65
7,524.02	73.67	350.10	6,988.22	1,273.27	984.20	1,008.85	3.91	3.57	-1.67
7,555.02	74.30	350.17	6,996.77	1,302.62	979.10	1,038.59	2.04	2.03	0.23
7,585.02	74.67	349.57	7,004.80	1,331.08	974.01	1,067.45	2.29	1.23	-2.00
7,616.02	74.58	348.57	7,013.02	1,360.43	968.35	1,097.31	3.12	-0.29	-3.23
7,646.02	76.04	348.74	7,020.62	1,388.88	962.64	1,126.31	4.90	4.87	0.57
7,677.02	80.20	348.22	7,027.00	1,418.60	956.58	1,156.62	13.52	13.42	-1.68
7,707.02	84.68	346.94	7,030.95	1,447.63	950.18	1,186.35	15.52	14.93	-4.27
7,737.02	87.08	346.66	7,033.10	1,476.76	943.35	1,216.27	8.05	8.00	-0.93
7,767.02	87.58	346.69	7,034.50	1,505.92	936.45	1,246.23	1.67	1.67	0.10
7,798.02	87.45	345.37	7,035.85	1,535.98	928.97	1,277.20	4.27	-0.42	-4.26
7,829.02	87.34	344.76	7,037.25	1,565.90	920.99	1,308.16	2.00	-0.35	-1.97
7,859.02	87.88	345.15	7,038.51	1,594.85	913.21	1,338.12	2.22	1.80	1.30
7,923.02	88.79	344.74	7,040.37	1,656.62	896.59	1,402.07	1.56	1.42	-0.64
7,985.02	90.81	344.70	7,040.58	1,716.43	880.25	1,464.04	3.26	3.26	-0.06
8,049.00	92.79	345.04	7,038.57	1,778.16	863.56	1,527.96	3.14	3.09	0.53
8,112.00	92.72	344.48	7,035.54	1,838.87	847.02	1,590.86	0.89	-0.11	-0.89
8,176.00	92.02	344.76	7,032.90	1,900.53	830.07	1,654.77	1.19	-1.09	0.47
8,238.00	91.11	343.93	7,031.20	1,960.21	813.36	1,716.70	2.01	-1.47	-1.37
8,301.00	90.54	343.79	7,030.30	2,020.72	795.85	1,779.62	0.93	-0.90	-0.22
8,365.00	90.40	344.60	7,029.77	2,082.30	778.42	1,843.57	1.28	-0.22	1.27
8,428.00	90.40	344.42	7,029.33	2,143.01	761.59	1,906.53	0.29	0.00	-0.29
8,492.00	91.01	344.65	7,028.54	2,204.69	744.53	1,970.48	1.02	0.95	0.36
8,556.00	90.10	344.19	7,027.92	2,266.33	727.34	2,034.44	1.59	-1.42	-0.72
8,619.00	89.73	344.19	7,028.02	2,326.95	710.17	2,097.38	0.59	-0.59	0.00
8,682.00	89.50	342.84	7,028.44	2,387.36	692.30	2,160.29	2.17	-0.37	-2.14
8,746.00	91.21	342.84	7,028.05	2,448.50	673.42	2,224.16	2.67	2.67	0.00
8,809.00	91.44	343.38	7,026.59	2,508.77	655.12	2,287.03	0.93	0.37	0.86
8,873.00	90.77	342.13	7,025.35	2,569.88	636.15	2,350.88	2.22	-1.05	-1.95
8,937.00	90.07	341.71	7,024.88	2,630.72	616.29	2,414.67	1.28	-1.09	-0.66
9,001.00	90.27	342.45	7,024.70	2,691.61	596.60	2,478.48	1.20	0.31	1.16
9,063.00	91.85	344.59	7,023.55	2,751.05	579.01	2,540.37	4.29	2.55	3.45
9,127.00	91.34	345.94	7,021.77	2,812.92	562.74	2,604.33	2.25	-0.80	2.11
9,191.00	90.84	345.46	7,020.55	2,874.92	546.93	2,668.31	1.08	-0.78	-0.75
9,254.00	89.87	345.78	7,020.16	2,935.95	531.29	2,731.30	1.62	-1.54	0.51
9,318.00	90.24	347.60	7,020.10	2,998.23	516.56	2,795.30	2.90	0.58	2.84
9,382.00	92.25	351.13	7,018.71	3,061.10	504.75	2,859.19	6.35	3.14	5.52
9,445.00	91.55	350.67	7,016.62	3,123.27	494.79	2,921.97	1.33	-1.11	-0.73

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Scientific Drilling International
Survey Report



Company:	Stone Energy	Local Co-ordinate Reference:	Well Mason-Conlon 4H
Project:	Heather Prospect (NAD 27)	TVD Reference:	GL 1202' & KB 18' @ 1220.00ft (Saxon 141)
Site:	Mason-Conlon Pad	MD Reference:	GL 1202' & KB 18' @ 1220.00ft (Saxon 141)
Well:	Mason-Conlon 4H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	As Drilled	Database:	Northeast District

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)
9,508.00	89.63	348.80	7,015.97	3,185.25	483.57	2,984.87	4.25	-3.05	-2.97
9,572.00	89.16	348.40	7,016.64	3,247.99	470.92	3,048.82	0.96	-0.73	-0.63
9,635.00	86.27	347.35	7,019.16	3,309.53	457.70	3,111.75	4.88	-4.59	-1.67
9,698.00	87.31	346.64	7,022.68	3,370.81	443.54	3,174.64	2.00	1.65	-1.13
9,761.00	90.40	346.68	7,023.94	3,432.09	429.01	3,237.62	4.91	4.90	0.06
9,824.00	92.29	347.90	7,022.46	3,493.53	415.15	3,300.60	3.57	3.00	1.94
9,888.00	92.69	346.17	7,019.68	3,555.84	400.81	3,364.53	2.77	0.63	-2.70
9,951.00	91.78	343.22	7,017.23	3,616.55	384.19	3,427.44	4.90	-1.44	-4.68
10,014.00	90.24	341.12	7,016.12	3,676.51	364.91	3,490.25	4.13	-2.44	-3.33
10,077.00	90.03	339.73	7,015.97	3,735.86	343.80	3,552.89	2.23	-0.33	-2.21
10,141.00	90.67	340.09	7,015.58	3,795.97	321.82	3,616.46	1.15	1.00	0.56
10,204.00	91.31	339.33	7,014.49	3,855.05	299.97	3,679.00	1.58	1.02	-1.21
10,268.00	91.48	339.49	7,012.93	3,914.94	277.47	3,742.49	0.36	0.27	0.25
10,331.00	90.67	337.51	7,011.75	3,973.55	254.39	3,804.86	3.40	-1.29	-3.14
10,394.00	91.35	339.37	7,010.64	4,032.13	231.24	3,867.22	3.14	1.08	2.95
10,457.00	91.61	339.24	7,009.01	4,091.04	208.99	3,929.70	0.46	0.41	-0.21
10,520.00	91.01	336.38	7,007.57	4,149.35	185.20	3,991.95	4.64	-0.95	-4.54
10,584.00	90.37	335.90	7,006.80	4,207.88	159.32	4,054.90	1.25	-1.00	-0.75
10,648.00	89.50	340.59	7,006.87	4,267.30	135.60	4,118.21	7.45	-1.36	7.33
10,711.00	90.07	345.73	7,007.11	4,327.58	117.36	4,181.08	8.21	0.90	8.16
10,775.00	90.24	346.66	7,006.93	4,389.73	102.09	4,245.08	1.48	0.27	1.45
10,838.00	91.65	350.84	7,005.89	4,451.50	89.80	4,308.01	7.00	2.24	6.63
10,902.00	91.82	350.34	7,003.96	4,514.61	79.34	4,371.82	0.82	0.27	-0.78
10,966.00	91.58	350.15	7,002.06	4,577.65	68.50	4,435.66	0.48	-0.38	-0.30
11,029.00	91.41	350.43	7,000.41	4,639.73	57.88	4,498.50	0.52	-0.27	0.44
11,093.00	90.57	347.64	6,999.31	4,702.55	45.71	4,562.42	4.55	-1.31	-4.36
11,156.00	90.20	344.32	6,998.89	4,763.66	30.45	4,625.41	5.30	-0.59	-5.27
11,218.00	91.01	345.19	6,998.23	4,823.47	14.15	4,687.37	1.92	1.31	1.40
11,282.00	91.68	345.79	6,996.73	4,885.41	-1.88	4,751.34	1.41	1.05	0.94
11,345.00	91.45	347.02	6,995.01	4,946.62	-16.69	4,814.32	1.99	-0.37	1.95
11,409.00	90.64	346.39	6,993.84	5,008.90	-31.40	4,878.31	1.60	-1.27	-0.98
11,473.00	90.94	347.50	6,992.96	5,071.24	-45.86	4,942.30	1.80	0.47	1.73
11,537.00	91.48	348.32	6,991.61	5,133.80	-59.26	5,006.27	1.53	0.84	1.28
11,600.00	90.67	346.33	6,990.42	5,195.25	-73.08	5,069.24	3.41	-1.29	-3.16
11,664.00	90.74	347.02	6,989.64	5,257.52	-87.83	5,133.24	1.08	0.11	1.08
11,728.00	92.92	347.99	6,987.59	5,319.97	-101.67	5,197.19	3.73	3.41	1.52
11,791.00	93.94	347.95	6,983.82	5,381.48	-114.77	5,260.06	1.62	1.62	-0.06
11,855.00	92.83	346.45	6,980.05	5,443.77	-128.93	5,323.94	2.91	-1.73	-2.34
11,918.00	92.15	345.67	6,977.31	5,504.86	-144.09	5,386.88	1.64	-1.08	-1.24
11,981.00	90.54	343.14	6,975.83	5,565.52	-161.02	5,449.81	4.76	-2.56	-4.02
12,045.00	90.91	341.47	6,975.02	5,626.48	-180.47	5,513.63	2.67	0.58	-2.61
12,108.00	91.68	339.87	6,973.60	5,685.91	-201.32	5,576.28	2.82	1.22	-2.54
12,172.00	91.58	339.23	6,971.77	5,745.86	-223.67	5,639.78	1.01	-0.16	-1.00
12,235.00	90.61	336.42	6,970.57	5,804.18	-247.44	5,702.04	4.72	-1.54	-4.46

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12,267.00	90.64	336.04	6,970.22	5,833.46	-260.34	5,733.52	1.19	0.09	-1.19
Last SDI MWD Survey									
12,325.00	90.64	336.04	6,969.57	5,886.46	-283.89	5,790.55	0.00	0.00	0.00
Projection to Bit									

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
100.00	100.00	0.55	-0.06	First SDI Gyro Survey
6,451.01	6,271.32	616.37	754.57	Last SDI Gyro Survey
6,510.01	6,323.60	633.37	775.99	First SDI MWD Survey
12,267.00	6,970.22	5,833.46	-260.34	Last SDI MWD Survey
12,325.00	6,969.57	5,886.46	-283.89	Projection to Bit

Checked By: _____ Approved By: _____ Date: _____