



Company: Sandridge Energy
 Field: Mississippi Limestone
 County: Harper Co., KS
 Well Name: Starks 1-35H
 Rig: Unit 310

Job Number: 4746371
 Magnetic Decl: 4.77
 Grid Corr: -0.21
 Total Survey Corr: 4.56
 Date Printed: 11-Oct-12

Proposed Azimuth: 357.95
 Target Inclination: 90.60
 TVD: 3927.00
 BRN From Survey: 0.00
 BRN From Bit: 0.00

Projection		0.00	Depth (ft)	11304.00	Incl.	92.00	Azimuth	TVD	Azimuth	VS	357.72	TVD	0.00	VS	0.00	N/S	0.00	N/S	0.00	DLS	0.00	N	0.00	E/W	0.00	E		
No.	Tool Type	Depth (ft)	Incl (°)	Quadrant	Course Lgth(ft)	Depth (ft)	TVD (ft)	Azimuth (ft)	VS (ft)	Coordinates	Dist (ft)	Ang (°)	Closure	Dist (ft)	Ang (°)	Coordinates	Dist (ft)	Ang (°)	Closure	Dist (ft)	Ang (°)	Coordinates	Dist (ft)	Ang (°)	Coordinates	Dist (ft)	Ang (°)	
0	TIE	15	0.00	0.00		15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
1	MWD	973	0.20	227.19	S	47.19	W	958	973.00	1.14	S	1.23	W	1.67	227.19	17.45	E	475	3319.92	-17.45	17.45	E	475	3319.92	-17.45	17.45	E	475
2	MWD	1431	0.86	203.62	S	23.62	W	458	1430.98	4.83	S	3.19	W	5.79	213.45	17.66	E	507	3826.92	-17.66	17.66	E	507	3826.92	-17.66	17.66	E	507
3	MWD	1895	0.36	147.62	S	32.38	E	464	1894.95	9.25	S	3.80	W	10.00	202.36	16.58	E	71	3897.90	-16.58	16.58	E	71	3897.90	-16.58	16.58	E	71
4	MWD	2370	0.37	168.82	S	11.18	E	475	2369.94	12.02	S	2.71	W	12.32	192.70	15.18	S	31	3928.84	-15.25	15.18	S	31	3928.84	-15.25	15.18	S	31
5	MWD	2845	0.46	134.03	S	45.97	E	475	2844.93	14.84	S	1.04	W	14.88	184.01	12.61	S	32	3960.65	-12.76	12.61	S	32	3960.65	-12.76	12.61	S	32
6	MWD	3320	0.31	173.88	S	6.12	E	475	3319.92	17.45	S	0.47	E	17.45	178.46	17.45	E	32	3992.27	-9.42	17.45	E	32	3992.27	-9.42	17.45	E	32
7	MWD	3827	0.28	338.54	N	21.46	W	507	3826.92	4.92	S	12.58	E	13.51	111.34	4.92	S	32	4023.65	-5.36	4.92	S	32	4023.65	-5.36	4.92	S	32
8	MWD	3898	1.99	40.50	N	40.50	E	71	3897.90	0.39	N	18.01	E	18.01	88.75	0.39	N	32	4054.73	-0.25	0.39	N	32	4054.73	-0.25	0.39	N	32
9	MWD	3929	4.91	43.28	N	43.28	E	31	3928.84	6.96	N	23.47	E	24.49	73.48	6.96	N	31	4084.52	6.12	6.96	N	31	4084.52	6.12	6.96	N	31
10	MWD	3961	7.53	41.28	N	41.28	E	32	3960.65	15.31	N	28.90	E	32.70	62.08	15.31	N	32	4114.93	14.27	15.31	N	32	4114.93	14.27	15.31	N	32
11	MWD	3993	10.10	47.56	N	47.56	E	32	3992.27	25.19	N	33.95	E	42.28	53.43	25.19	N	32	4144.94	23.96	25.19	N	32	4144.94	23.96	25.19	N	32
12	MWD	4025	12.54	47.85	N	47.85	E	32	4023.65	36.27	N	38.50	E	52.89	46.71	36.27	N	32	4173.53	34.87	36.27	N	32	4173.53	34.87	36.27	N	32
13	MWD	4057	14.92	43.73	N	43.73	E	32	4054.73	49.29	N	42.85	E	65.31	41.00	49.29	N	32	4202.43	47.73	49.29	N	32	4202.43	47.73	49.29	N	32
14	MWD	4088	17.16	36.33	N	36.33	E	31	4084.52	63.93	N	46.83	E	79.25	36.23	63.93	N	32	4230.61	62.21	63.93	N	32	4230.61	62.21	63.93	N	32
15	MWD	4120	19.15	30.01	N	30.01	E	32	4114.93	79.40	N	50.40	E	94.05	32.41	79.40	N	32	4257.22	77.55	79.40	N	32	4257.22	77.55	79.40	N	32
16	MWD	4152	21.48	24.49	N	24.49	E	32	4144.94	96.51	N	53.92	E	110.55	29.19	96.51	N	32	4284.04	94.52	96.51	N	32	4284.04	94.52	96.51	N	32
17	MWD	4183	23.99	20.38	N	20.38	E	31	4173.53	114.06	N	57.17	E	127.59	26.62	114.06	N	32	4309.38	111.94	114.06	N	32	4309.38	111.94	114.06	N	32
18	MWD	4215	26.87	16.71	N	16.71	E	32	4202.43	133.01	N	60.16	E	145.98	24.34	133.01	N	32	4334.99	130.77	133.01	N	32	4334.99	130.77	133.01	N	32
19	MWD	4247	29.73	13.90	N	13.90	E	32	4230.61	152.73	N	62.46	E	165.01	22.24	152.73	N	32	4360.08	150.40	152.73	N	32	4360.08	150.40	152.73	N	32
20	MWD	4278	31.93	12.14	N	12.14	E	31	4257.22	172.53	N	63.78	E	183.94	20.29	172.53	N	32	4383.90	170.14	172.53	N	32	4383.90	170.14	172.53	N	32
21	MWD	4310	34.23	11.14	N	11.14	E	32	4284.04	193.51	N	64.14	E	203.86	18.34	193.51	N	32	4408.05	191.09	193.51	N	32	4408.05	191.09	193.51	N	32
22	MWD	4341	36.08	9.87	N	9.87	E	31	4309.38	214.96	N	63.65	E	224.18	16.49	214.96	N	32	4431.80	212.54	214.96	N	32	4431.80	212.54	214.96	N	32
23	MWD	4373	37.58	8.10	N	8.10	E	32	4334.99	237.08	N	62.73	E	245.24	14.82	237.08	N	32	4454.90	234.69	237.08	N	32	4454.90	234.69	237.08	N	32
24	MWD	4405	39.16	5.25	N	5.25	E	32	4360.08	259.23	N	61.86	E	266.51	13.42	259.23	N	32	4476.57	256.85	259.23	N	32	4476.57	256.85	259.23	N	32
25	MWD	4436	40.48	2.41	N	2.41	E	31	4383.90	282.64	N	61.17	E	289.18	12.21	282.64	N	32	4498.37	280.27	282.64	N	32	4498.37	280.27	282.64	N	32
26	MWD	4468	41.48	359.56	N	0.44	W	32	4408.05	306.48	N	60.53	E	312.40	11.17	306.48	N	32	4519.71	304.12	306.48	N	32	4519.71	304.12	306.48	N	32
27	MWD	4500	42.73	357.83	N	2.17	W	32	4431.80	330.01	N	59.74	E	335.37	10.26	330.01	N	32	4539.87	327.66	330.01	N	32	4539.87	327.66	330.01	N	32
28	MWD	4532	44.85	357.45	N	2.55	W	32	4454.90	364.61	N	58.12	E	369.22	9.06	364.61	N	32	4568.60	362.30	364.61	N	32	4568.60	362.30	364.61	N	32
29	MWD	4563	46.43	358.04	N	1.96	W	31	4476.57	403.24	N	55.96	E	407.11	7.90	403.24	N	32	4600.27	400.98	403.24	N	32	4600.27	400.98	403.24	N	32
30	MWD	4595	47.66	358.59	N	1.41	W	32	4498.37	438.09	N	53.88	E	441.39	7.01	438.09	N	32	4628.66	435.88	438.09	N	32	4628.66	435.88	438.09	N	32
31	MWD	4627	48.70	358.33	N	1.67	W	32	4519.71	459.74	E	53.88	E	441.39	7.01	459.74	E	32	4648.05	457.17	459.74	E	32	4648.05	457.17	459.74	E	32
32	MWD	4658	50.16	357.83	N	2.17	W	31	4539.87	487.17	E	53.88	E	441.39	7.01	487.17	E	32	4667.31	484.60	487.17	E	32	4667.31	484.60	487.17	E	32
33	MWD	4703	50.51	356.82	N	3.18	W	45	4568.60	516.17	E	53.88	E	441.39	7.01	516.17	E	32	4686.55	513.63	516.17	E	32	4686.55	513.63	516.17	E	32
34	MWD	4753	50.89	356.77	N	3.23	W	50	4600.27	545.17	E	53.88	E	441.39	7.01	545.17	E	32	4714.90	542.60	545.17	E	32	4714.90	542.60	545.17	E	32
35	MWD	4798	50.86	356.38	N	3.62	W	45	4628.66	574.17	E	53.88	E	441.39	7.01	574.17	E	32	4733.23	571.63	574.17	E	32	4733.23	571.63	574.17	E	32



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Projection		0.00	Depth (ft)	11304.00	Incl.	92.00	Azimuth	357.72	TVD	0.00	VS	0.00	N/S	0.00	N	0.00	E/W	0.00	E
No.	Tool Type	Depth (ft)	Incl (°)	Quadrant	Course Lgth(ft)	TVD (ft)	VS (ft)	Coordinates	N/S (ft)	E/W (ft)	Closure	Dist (ft)	Ang (°)	DLS (°/100')	Bld Rate (°/100')	Wik Rate (°/100')			
36	MWD	4848	52.18	N 3.46 W	50	4659.77	475.01	477.16 N	51.46 E	479.92	6.16	479.92	6.16	2.65	2.64	0.32			
37	MWD	4880	55.11	N 2.73 W	32	4678.74	500.78	502.89 N	50.07 E	505.37	5.69	505.37	5.69	9.34	9.16	2.28			
38	MWD	4912	58.71	N 2.96 W	32	4696.21	527.58	529.66 N	48.74 E	531.90	5.26	531.90	5.26	11.27	11.25	-0.72			
39	MWD	4943	61.49	N 2.20 W	31	4711.66	554.45	556.50 N	47.53 E	558.53	4.88	558.53	4.88	9.22	8.97	2.45			
40	MWD	4975	64.38	N 2.19 W	32	4726.22	582.94	584.98 N	46.44 E	586.82	4.54	586.82	4.54	9.03	9.03	0.00			
41	MWD	5007	66.90	N 2.16 W	32	4739.42	612.09	614.10 N	45.34 E	615.78	4.22	615.78	4.22	7.88	7.88	0.09			
42	MWD	5038	69.33	N 1.78 W	31	4750.97	640.85	642.85 N	44.35 E	644.38	3.95	644.38	3.95	7.92	7.84	1.23			
43	MWD	5070	71.27	N 1.23 W	32	4761.76	670.98	672.97 N	43.56 E	674.37	3.70	674.37	3.70	6.27	6.06	1.72			
44	MWD	5102	72.88	N 1.43 W	32	4771.60	701.42	703.40 N	42.85 E	704.71	3.49	704.71	3.49	5.07	5.03	-0.62			
45	MWD	5133	74.62	N 2.26 W	31	4780.28	731.18	733.15 N	41.89 E	734.34	3.27	734.34	3.27	6.17	5.61	-2.68			
46	MWD	5165	76.35	N 3.85 W	32	4788.30	762.15	764.08 N	40.24 E	765.14	3.01	765.14	3.01	7.24	5.41	-4.97			
47	MWD	5197	77.72	N 5.26 W	32	4795.48	793.30	795.16 N	37.76 E	796.06	2.72	796.06	2.72	6.06	4.28	-4.41			
48	MWD	5228	79.97	N 5.21 W	31	4801.48	823.67	825.45 N	34.99 E	826.19	2.43	826.19	2.43	7.26	7.26	0.16			
49	MWD	5260	81.69	N 4.57 W	32	4806.58	855.22	856.92 N	32.29 E	857.53	2.16	857.53	2.16	5.73	5.38	2.00			
50	MWD	5292	84.76	N 4.38 W	32	4810.35	886.97	888.60 N	29.82 E	889.10	1.92	889.10	1.92	9.61	9.59	0.59			
51	MWD	5323	87.31	N 3.37 W	31	4812.49	917.87	919.45 N	27.73 E	919.87	1.73	919.87	1.73	8.84	8.23	3.26			
52	MWD	5365	90.25	N 2.91 W	42	4813.39	959.85	961.38 N	25.43 E	961.71	1.51	961.71	1.51	7.09	7.00	1.10			
53	MWD	5422	92.62	N 2.63 W	57	4811.96	1016.82	1018.29 N	22.67 E	1018.54	1.28	1018.54	1.28	4.19	4.16	0.49			
54	MWD	5517	91.55	N 2.89 W	95	4808.50	1111.75	1113.11 N	18.10 E	1113.26	0.93	1113.26	0.93	1.16	-1.13	-0.27			
55	MWD	5612	90.96	N 3.18 W	95	4806.42	1206.71	1207.96 N	13.07 E	1208.03	0.62	1208.03	0.62	0.69	-0.62	-0.31			
56	MWD	5707	89.75	N 2.81 W	95	4805.84	1301.70	1302.82 N	8.11 E	1302.85	0.36	1302.85	0.36	1.33	-1.27	0.39			
57	MWD	5802	91.51	N 1.74 W	95	4804.79	1396.69	1397.74 N	4.34 E	1397.74	0.18	1397.74	0.18	2.17	1.85	1.13			
58	MWD	5897	91.70	N 2.31 W	95	4802.13	1491.65	1492.64 N	0.98 E	1492.64	0.04	1492.64	0.04	0.63	0.20	-0.60			
59	MWD	5992	91.34	N 4.48 W	95	4799.61	1586.58	1587.43 N	4.64 W	1587.44	359.83	1587.44	359.83	2.31	-0.38	-2.28			
60	MWD	6087	93.13	N 3.34 W	95	4795.90	1681.46	1682.13 N	11.11 W	1682.17	359.62	1682.17	359.62	2.23	1.88	1.20			
61	MWD	6182	91.55	N 4.22 W	95	4792.03	1776.33	1776.85 N	17.37 W	1776.93	359.44	1776.93	359.44	1.90	-1.66	-0.93			
62	MWD	6277	92.10	N 3.70 W	95	4789.00	1871.23	1871.57 N	23.93 W	1871.72	359.27	1871.72	359.27	0.80	0.58	0.55			
63	MWD	6372	92.72	N 3.61 W	95	4785.01	1966.11	1966.29 N	29.98 W	1966.52	359.13	1966.52	359.13	0.66	0.65	0.09			
64	MWD	6467	91.71	N 2.97 W	95	4781.33	2061.01	2061.06 N	35.43 W	2061.37	359.02	2061.37	359.02	1.26	-1.06	0.67			
65	MWD	6562	90.59	N 3.57 W	95	4779.43	2155.97	2155.89 N	40.85 W	2156.27	358.91	2156.27	358.91	1.34	-1.18	-0.63			
66	MWD	6657	89.94	N 3.52 W	95	4778.99	2250.93	2250.70 N	46.72 W	2251.19	358.81	2251.19	358.81	0.69	-0.68	0.05			
67	MWD	6752	90.06	N 3.86 W	95	4778.99	2345.90	2345.51 N	52.83 W	2346.10	358.71	2346.10	358.71	0.38	0.13	-0.36			
68	MWD	6847	90.46	N 5.01 W	95	4778.56	2440.81	2440.22 N	60.18 W	2440.96	358.59	2440.96	358.59	1.28	0.42	-1.21			
69	MWD	6942	91.60	N 3.55 W	95	4776.85	2535.72	2534.94 N	67.27 W	2535.83	358.48	2535.83	358.48	1.95	1.20	1.54			
70	MWD	7037	89.11	N 3.84 W	95	4776.26	2630.67	2629.73 N	73.39 W	2630.75	358.40	2630.75	358.40	2.64	-2.62	-0.31			
71	MWD	7132	88.42	N 4.01 W	95	4778.31	2725.60	2724.48 N	79.89 W	2725.65	358.32	2725.65	358.32	0.75	-0.73	-0.18			



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											N/S (ft)	E/W (ft)						
72	MWD	7227	88.89	355.92	N 4.08	W 95	2820.51	4780.54	2819.22	86.59	W	2820.55	358.24	0.50	0.49	-0.07		
73	MWD	7323	89.11	356.40	N 3.60	W 96	2916.45	4782.21	2914.99	93.02	W	2916.47	358.17	0.55	0.23	0.50		
74	MWD	7418	89.75	356.62	N 3.38	W 95	3011.42	4783.16	3009.81	98.80	W	3011.43	358.12	0.71	0.67	0.23		
75	MWD	7513	90.06	356.78	N 3.22	W 95	3106.39	4783.32	3104.65	104.27	W	3106.40	358.08	0.37	0.33	0.17		
76	MWD	7608	90.09	355.92	N 4.08	W 95	3201.35	4783.19	3199.46	110.32	W	3201.36	358.03	0.91	0.03	-0.91		
77	MWD	7703	91.23	356.02	N 3.98	W 95	3296.29	4782.10	3294.21	116.99	W	3296.29	357.97	1.20	1.20	0.11		
78	MWD	7798	88.36	356.38	N 3.62	W 95	3391.24	4782.44	3388.99	123.29	W	3391.24	357.92	3.04	-3.02	0.38		
79	MWD	7900	90.74	357.80	N 2.20	W 102	3493.21	4783.24	3490.85	128.47	W	3493.21	357.89	2.72	2.33	1.39		
80	MWD	7947	91.11	358.35	N 1.65	W 47	3540.20	4782.48	3537.82	130.05	W	3540.21	357.89	1.41	0.79	1.17		
81	MWD	8010	91.05	358.54	N 1.46	W 63	3603.19	4781.29	3600.78	131.75	W	3603.19	357.90	0.32	-0.10	0.30		
82	MWD	8073	91.39	357.63	N 2.37	W 63	3666.18	4779.95	3663.73	133.86	W	3666.18	357.91	1.54	0.54	-1.44		
83	MWD	8137	91.36	357.26	N 2.74	W 64	3730.15	4778.42	3727.65	136.71	W	3730.16	357.90	0.58	-0.05	-0.58		
84	MWD	8200	91.17	355.92	N 4.08	W 63	3793.12	4777.02	3790.52	140.46	W	3793.12	357.88	2.15	-0.30	-2.13		
85	MWD	8264	90.83	355.60	N 4.40	W 64	3857.06	4775.91	3854.34	145.19	W	3857.07	357.84	0.73	-0.53	-0.50		
86	MWD	8327	90.74	356.13	N 3.87	W 63	3920.02	4775.04	3917.17	149.73	W	3920.03	357.81	0.85	-0.14	0.84		
87	MWD	8390	91.23	357.10	N 2.90	W 63	3982.99	4773.96	3980.05	153.45	W	3983.00	357.79	1.72	0.78	1.54		
88	MWD	8454	91.23	356.94	N 3.06	W 64	4046.96	4772.59	4043.94	156.78	W	4046.98	357.78	0.25	0.00	-0.25		
89	MWD	8517	91.05	357.39	N 2.61	W 63	4109.95	4771.33	4106.86	159.89	W	4109.97	357.77	0.77	-0.29	0.71		
90	MWD	8580	91.29	357.52	N 2.48	W 63	4172.93	4770.05	4169.78	162.69	W	4172.95	357.77	0.43	0.38	0.21		
91	MWD	8675	90.89	355.57	N 4.43	W 95	4267.88	4768.24	4264.59	168.41	W	4267.91	357.74	2.10	-0.42	-2.05		
92	MWD	8770	91.79	354.63	N 5.37	W 95	4362.73	4766.02	4359.21	176.52	W	4362.78	357.68	1.37	0.95	-0.99		
93	MWD	8865	91.63	354.53	N 5.47	W 95	4457.53	4763.18	4453.74	185.49	W	4457.60	357.62	0.20	-0.17	-0.11		
94	MWD	8960	91.08	356.31	N 3.69	W 95	4552.40	4760.94	4548.41	193.08	W	4552.51	357.57	1.96	-0.58	1.87		
95	MWD	9056	90.89	357.22	N 2.78	W 96	4648.37	4759.29	4644.24	198.49	W	4648.48	357.55	0.97	-0.20	0.95		
96	MWD	9151	91.51	357.62	N 2.38	W 95	4743.34	4757.30	4739.12	202.77	W	4743.46	357.55	0.78	0.65	0.42		
97	MWD	9245	91.91	357.18	N 2.82	W 94	4837.30	4754.49	4832.98	207.03	W	4837.42	357.55	0.63	0.43	-0.47		
98	MWD	9340	91.45	358.57	N 1.43	W 95	4932.25	4751.71	4927.88	210.55	W	4932.37	357.55	1.54	-0.48	1.46		
99	MWD	9435	90.40	358.50	N 1.50	W 95	5027.23	4750.17	5022.83	212.98	W	5027.34	357.57	1.11	-1.11	-0.07		
100	MWD	9530	89.94	357.86	N 2.14	W 95	5122.23	4749.89	5117.78	216.00	W	5122.34	357.58	0.83	-0.48	-0.67		
101	MWD	9625	90.62	357.49	N 2.51	W 95	5217.23	4749.43	5212.70	219.85	W	5217.34	357.58	0.81	0.72	-0.39		
102	MWD	9720	89.78	359.15	N 0.85	W 95	5312.22	4749.10	5307.66	222.64	W	5312.32	357.60	1.96	-0.88	1.75		
103	MWD	9815	89.66	358.60	N 1.40	W 95	5407.21	4749.56	5402.64	224.50	W	5407.30	357.62	0.59	-0.13	-0.58		
104	MWD	9910	89.78	358.40	N 1.60	W 95	5502.20	4750.02	5497.60	226.99	W	5502.29	357.64	0.25	0.13	-0.21		
105	MWD	10005	89.60	357.92	N 2.08	W 95	5597.20	4750.54	5592.55	230.04	W	5597.28	357.64	0.54	-0.19	-0.51		
106	MWD	10100	89.63	358.05	N 1.95	W 95	5692.20	4751.18	5687.49	233.38	W	5692.28	357.65	0.14	0.03	0.14		
107	MWD	10195	90.06	356.97	N 3.03	W 95	5787.19	4751.43	5782.40	237.51	W	5787.27	357.65	1.22	0.45	-1.14		
108	MWD	10290	90.86	358.46	N 1.54	W 95	5882.19	4750.67	5877.32	241.29	W	5882.27	357.65	1.78	0.84	1.57		

