



Survey Calculation Program

Sandridge Energy
Powers 1-2H
Ford County, Kansas
Lariat 41

M.W.D. OPERATOR: Shane Miller/Colleen Swenson
DIRECTIONAL DRILLERS: Jon Ferguson/Wayne Swenson

Magnetic Declination:	6.37
Job #:	DR1206103
Vertical Section Azimuth	182.6

Minimum Curvature Calculation

No.	Survey Depth	INC	AZM	TVD	N-S	E-W	Vertical Section	DLS/100
Tie	0	0.0	0.0	0.00	0.00	0.00	0.00	
1	1393	0.4	324.8	1392.99	3.97	-2.80	-3.84	0.03
2	1805	0.2	317.8	1804.98	5.68	-4.11	-5.49	0.05
3	2281	0.5	15.2	2280.97	8.30	-4.13	-8.11	0.09
4	2758	0.4	356.8	2757.96	11.97	-3.68	-11.79	0.04
5	3234	0.9	308.9	3233.93	15.98	-6.68	-15.66	0.15
6	3710	0.6	41.2	3709.90	20.20	-7.95	-19.82	0.23
7	3945	0.9	90.2	3944.88	21.12	-5.29	-20.86	0.29
8	3964	0.6	97.7	3963.88	21.11	-5.04	-20.86	1.66
9	3995	1.4	138.0	3994.88	20.80	-4.63	-20.57	3.29
10	4027	3.4	155.7	4026.85	19.65	-3.98	-19.45	6.59
11	4059	6.0	168.6	4058.74	17.14	-3.25	-16.98	8.72
12	4091	8.1	179.3	4090.50	13.25	-2.90	-13.10	7.71
13	4123	10.2	186.7	4122.09	8.18	-3.20	-8.03	7.51
14	4154	12.4	189.6	4152.49	2.17	-4.07	-1.98	7.33
15	4186	13.5	192.0	4183.67	-4.87	-5.42	5.11	3.83
16	4218	13.1	195.0	4214.81	-12.03	-7.14	12.34	2.49
17	4250	14.0	194.0	4245.92	-19.29	-9.01	19.67	2.91
18	4281	15.3	190.8	4275.92	-26.94	-10.69	27.40	4.94
19	4313	17.5	187.5	4306.61	-35.86	-12.11	36.37	7.46
20	4345	19.7	187.6	4336.94	-45.98	-13.45	46.54	6.88
21	4377	21.2	189.8	4366.92	-57.03	-15.15	57.65	5.27
22	4409	23.1	191.2	4396.56	-68.89	-17.35	69.60	6.16
23	4440	25.0	191.9	4424.87	-81.26	-19.88	82.08	6.20
24	4472	27.2	191.6	4453.60	-95.05	-22.75	95.98	6.89
25	4504	29.9	191.6	4481.71	-110.03	-25.82	111.08	8.44
26	4536	33.1	192.3	4508.99	-126.38	-29.29	127.58	10.06
27	4567	37.1	191.9	4534.35	-143.81	-33.02	145.16	12.92
28	4599	41.2	191.7	4559.16	-163.58	-37.15	165.10	12.82
29	4631	43.7	192.0	4582.77	-184.71	-41.59	186.41	7.84
30	4663	45.7	192.5	4605.51	-206.71	-46.36	208.60	6.35
31	4695	47.9	191.9	4627.42	-229.51	-51.29	231.60	7.01
32	4727	49.4	190.5	4648.56	-253.07	-55.95	255.35	5.72
33	4758	49.7	189.8	4668.67	-276.29	-60.11	278.73	1.97
34	4790	49.3	189.8	4689.45	-300.27	-64.25	302.88	1.25



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No.	Survey Depth	INC	AZM	TVD	N-S	E-W	Vertical Section	DLS/100
35	4822	48.8	189.3	4710.42	-324.10	-68.26	326.87	1.96
36	4854	48.9	190.1	4731.48	-347.85	-72.32	350.78	1.91
37	4886	49.2	190.4	4752.45	-371.64	-76.62	374.73	1.17
38	4917	48.6	189.8	4772.83	-394.64	-80.72	397.89	2.42
39	4949	49.7	188.8	4793.76	-418.52	-84.63	421.93	4.17
40	4981	52.4	187.3	4813.88	-443.16	-88.11	446.70	9.19
41	5013	55.5	186.4	4832.71	-468.85	-91.19	472.50	9.95
42	5044	58.1	186.5	4849.68	-494.62	-94.10	498.38	8.39
43	5076	61.5	187.2	4865.78	-522.07	-97.41	525.95	10.79
44	5107	65.0	188.4	4879.73	-549.49	-101.17	553.52	11.81
45	5139	66.6	189.6	4892.85	-578.32	-105.73	582.52	6.06
46	5171	69.8	190.5	4904.73	-607.57	-110.92	611.98	10.34
47	5203	72.1	189.5	4915.17	-637.36	-116.17	641.97	7.77
48	5234	74.5	189.3	4924.08	-666.65	-121.02	671.45	7.77
49	5266	76.6	188.5	4932.06	-697.26	-125.81	702.25	6.99
50	5298	79.4	187.7	4938.72	-728.25	-130.22	733.40	9.09
51	5330	82.7	188.1	4943.69	-759.55	-134.57	764.88	10.39
52	5361	86.8	187.3	4946.53	-790.14	-138.70	795.62	13.47
53	5393	89.4	184.1	4947.59	-821.96	-141.88	827.55	12.88