

RECEIVED

JAN 12 2010

HOBBSON

Company: Apache
 Field: Mounment
 City/Blk/Par: 16 20S 37E
 Well Name: Hansen State #14
 Rig: Capastar 19

Job Number:
 Magnetic Decl.:
 Grid Corr.:
 Total Survey Corr.:
 Target Info:

30.025-39635

Minimum Curvature

Proposed Azimuth 25.94
 Depth Reference RKB
 Date Printed 8-Jan-10

No.	Tool Type	Survey Depth (ft)	Incl (°)	Azimuth (°)	Course Lgth(ft)	TVD (ft)	Coordinates N/S (ft)	E/W (ft)	Closure Dist (ft)	Ang (°)	DLS (°/100')	Bld Rate (°/100')	Wlk Rate (°/100')
0	TIE IN	0	0.00	0.00	0	0.00	1310.00 S	2440.00 W	0.00	0.00			
1	GRYO	1300.00	0.01	0.00	1300	1300.00	1309.89 S	2440.00 W	2769.37	241.77	0.00	0.0	0.0
2	MWD	1400.00	2.00	25.94	100	1399.98	1308.31 S	2439.24 W	2767.95	241.79	1.99	2.0	25.9
3	MWD	1500.00	4.00	25.94	100	1499.84	1303.60 S	2436.95 W	2763.71	241.86	2.00	2.0	0.0
4	MWD	1600.00	6.00	25.94	100	1599.45	1295.77 S	2433.13 W	2756.66	241.96	2.00	2.0	0.0
5	MWD	1700.00	8.00	25.94	100	1698.70	1284.81 S	2427.80 W	2746.81	242.11	2.00	2.0	0.0
6	MWD	1800.00	10.00	25.94	100	1797.47	1270.74 S	2420.96 W	2734.20	242.31	2.00	2.0	0.0
7	MWD	1900.00	12.00	25.94	100	1895.62	1253.58 S	2412.61 W	2718.86	242.54	2.00	2.0	0.0
8	MWD	2000.00	13.00	25.94	100	1993.25	1234.12 S	2403.15 W	2701.51	242.82	1.00	1.0	0.0
9	MWD	2100.00	14.00	25.94	100	2090.49	1213.13 S	2392.93 W	2682.87	243.12	1.00	1.0	0.0
10	MWD	2200.00	16.00	25.94	100	2187.07	1189.86 S	2381.61 W	2662.30	243.45	2.00	2.0	0.0
11	MWD	2300.00	16.00	25.94	100	2283.20	1165.07 S	2369.55 W	2640.49	243.82	0.00	0.0	0.0
12	MWD	2400.00	16.00	25.94	100	2379.33	1140.28 S	2357.49 W	2618.78	244.19	0.00	0.0	0.0
13	MWD	2500.00	16.00	25.94	100	2475.45	1115.50 S	2345.44 W	2597.19	244.56	0.00	0.0	0.0
14	MWD	2600.00	16.00	25.94	100	2571.58	1090.71 S	2333.38 W	2575.71	244.95	0.00	0.0	0.0
15	MWD	2700.00	16.00	25.94	100	2667.71	1065.92 S	2321.32 W	2554.35	245.34	0.00	0.0	0.0
16	MWD	2800.00	16.00	25.94	100	2763.83	1041.14 S	2309.26 W	2533.11	245.73	0.00	0.0	0.0
17	MWD	2900.00	14.00	25.94	100	2860.42	1017.87 S	2297.94 W	2513.28	246.11	2.00	-2.0	0.0
18	MWD	3000.00	12.00	25.94	100	2957.85	997.64 S	2288.10 W	2496.13	246.44	2.00	-2.0	0.0
19	MWD	3100.00	10.00	25.94	100	3056.01	980.48 S	2279.75 W	2481.66	246.73	2.00	-2.0	0.0
20	MWD	3200.00	8.00	25.94	100	3154.77	966.41 S	2272.91 W	2469.83	246.97	2.00	-2.0	0.0
21	MWD	3300.00	6.00	25.94	100	3254.02	955.46 S	2267.58 W	2460.65	247.15	2.00	-2.0	0.0
22	MWD	3400.00	4.00	25.94	100	3353.64	947.62 S	2263.77 W	2454.10	247.29	2.00	-2.0	0.0
23	MWD	3500.00	2.00	25.94	100	3453.49	942.91 S	2261.48 W	2450.18	247.37	2.00	-2.0	0.0
24	MWD	3600.00	1.71	25.94	100	3553.44	940.00 S	2260.06 W	2447.75	247.42	0.29	-0.3	0.0
25	MWD	3700.00	0.00	25.94	100	3653.43	938.66 S	2259.41 W	2446.63	247.44	1.71	-1.7	0.0
26	MWD	3800.00	0.00	25.94	100	3753.43	938.66 S	2259.41 W	2446.63	247.44	0.00	0.0	0.0
27	MWD	3900.00	0.00	25.94	100	3853.43	938.66 S	2259.41 W	2446.63	247.44	0.00	0.0	0.0
28	MWD	4000.00	0.00	25.94	100	3953.43	938.66 S	2259.41 W	2446.63	247.44	0.00	0.0	0.0
29	MWD	4100.00	0.00	25.94	100	4053.43	938.66 S	2259.41 W	2446.63	247.44	0.00	0.0	0.0
30	MWD	4200.00	0.00	25.94	100	4153.43	938.66 S	2259.41 W	2446.63	247.44	0.00	0.0	0.0
31	MWD	4300.00	0.00	25.94	100	4253.43	938.66 S	2259.41 W	2446.63	247.44	0.00	0.0	0.0
32	MWD	4400.00	0.00	25.94	100	4353.43	938.66 S	2259.41 W	2446.63	247.44	0.00	0.0	0.0
33	MWD	4500.00	0.00	25.94	100	4453.43	938.66 S	2259.41 W	2446.63	247.44	0.00	0.0	0.0
34	MWD	4600.00	0.00	25.94	100	4553.43	938.66 S	2259.41 W	2446.63	247.44	0.00	0.0	0.0
35	MWD	4700.00	0.00	25.94	100	4653.43	938.66 S	2259.41 W	2446.63	247.44	0.00	0.0	0.0
36	MWD	4800.00	0.00	25.94	100	4753.43	938.66 S	2259.41 W	2446.63	247.44	0.00	0.0	0.0
37	MWD	4900.00	0.00	25.94	100	4853.43	938.66 S	2259.41 W	2446.63	247.44	0.00	0.0	0.0
38	MWD	5000.00	0.00	25.94	100	4953.43	938.66 S	2259.41 W	2446.63	247.44	0.00	0.0	0.0
39	MWD	5100.00	0.00	25.94	100	5053.43	938.66 S	2259.41 W	2446.63	247.44	0.00	0.0	0.0
40	MWD	5200.00	0.00	25.94	100	5153.43	938.66 S	2259.41 W	2446.63	247.44	0.00	0.0	0.0
41	MWD	5300.00	0.00	25.94	100	5253.43	938.66 S	2259.41 W	2446.63	247.44	0.00	0.0	0.0
42	MWD	5400.00	0.00	25.94	100	5353.43	938.66 S	2259.41 W	2446.63	247.44	0.00	0.0	0.0
43	MWD	5500.00	0.00	25.94	100	5453.43	938.66 S	2259.41 W	2446.63	247.44	0.00	0.0	0.0
44	MWD	5600.00	0.00	25.94	100	5553.43	938.66 S	2259.41 W	2446.63	247.44	0.00	0.0	0.0
45	MWD	5700.00	0.00	25.94	100	5653.43	938.66 S	2259.41 W	2446.63	247.44	0.00	0.0	0.0
46	MWD	5800.00	0.00	25.94	100	5753.43	938.66 S	2259.41 W	2446.63	247.44	0.00	0.0	0.0
47	MWD	5900.00	0.00	25.94	100	5853.43	938.66 S	2259.41 W	2446.63	247.44	0.00	0.0	0.0
48	MWD	6000.00	0.00	25.94	100	5953.43	938.66 S	2259.41 W	2446.63	247.44	0.00	0.0	0.0
49	MWD	6100.00	0.00	25.94	100	6053.43	938.66 S	2259.41 W	2446.63	247.44	0.00	0.0	0.0
50	MWD	6200.00	0.00	25.94	100	6153.43	938.66 S	2259.41 W	2446.63	247.44	0.00	0.0	0.0

Company: **Apache**
 Field: **Mounment**
 Cty/Blk/Par: **16 20S 37E**
 Well Name: **Hansen State #14**
 Rig: **Capastar 19**

Job Number:
 Magnetic Decl.:
 Grid Corr.:
 Total Survey Corr.:
 Target Info:

Minimum Curvature
 Proposed Azimuth **25.94**
 Depth Reference **RKB**
 Date Printed **8-Jan-10**

No.	Tool Type	Survey Depth (ft)	Incl (°)	Azimuth (°)	Course Lgth(ft)	TVD (ft)	Coordinates		Closure		Ang (°)	DLS (°/100')	Bld Rate (°/100')	Wlk Rate (°/100')
							N/S (ft)	E/W (ft)	Dist (ft)					
51	MWD	6300.00	0.00	25.94	100	6253.43	938.66	S	2259.41	W 2446.63	247.44	0.00	0.0	0.0
52	MWD	6400.00	0.00	25.94	100	6353.43	938.66	S	2259.41	W 2446.63	247.44	0.00	0.0	0.0
53	MWD	6500.00	0.00	25.94	100	6453.43	938.66	S	2259.41	W 2446.63	247.44	0.00	0.0	0.0
54	MWD	6600.00	0.00	25.94	100	6553.43	938.66	S	2259.41	W 2446.63	247.44	0.00	0.0	0.0
55	MWD	6700.00	0.00	25.94	100	6653.43	938.66	S	2259.41	W 2446.63	247.44	0.00	0.0	0.0
56	MWD	6800.00	0.00	25.94	100	6753.43	938.66	S	2259.41	W 2446.63	247.44	0.00	0.0	0.0
57	MWD	6900.00	0.00	25.94	100	6853.43	938.66	S	2259.41	W 2446.63	247.44	0.00	0.0	0.0
58	MWD	7000.00	0.00	25.94	100	6953.43	938.66	S	2259.41	W 2446.63	247.44	0.00	0.0	0.0
59	MWD	7100.00	0.00	25.94	100	7053.43	938.66	S	2259.41	W 2446.63	247.44	0.00	0.0	0.0
60	MWD	7200.00	0.00	25.94	100	7153.43	938.66	S	2259.41	W 2446.63	247.44	0.00	0.0	0.0
61	MWD	7300.00	0.00	25.94	100	7253.43	938.66	S	2259.41	W 2446.63	247.44	0.00	0.0	0.0
62	MWD	7400.00	0.00	25.94	100	7353.43	938.66	S	2259.41	W 2446.63	247.44	0.00	0.0	0.0
63	MWD	7500.00	0.00	25.94	100	7453.43	938.66	S	2259.41	W 2446.63	247.44	0.00	0.0	0.0
64	MWD	7600.00	0.00	25.94	100	7553.43	938.66	S	2259.41	W 2446.63	247.44	0.00	0.0	0.0
65	MWD	7700.00	0.00	25.94	100	7653.43	938.66	S	2259.41	W 2446.63	247.44	0.00	0.0	0.0
66	MWD	7746.57	0.00	25.94	47	7700.00	938.66	S	2259.41	W 2446.63	247.44	0.00	0.0	0.0