Company:	ST JAMES	Job Number:	2535	Calculation Method	Minimum Curvature	8" Mud Mtr SN:	77577259	8" Circ Hrs:
Field:	HARLECH	Magnetic Decl.:	8.45	Proposed Azimuth	**127.20**	Surface TD:	782	8" Bit Hrs:
Cty/Blk/Par:	WELD	Grid Corr.:	TRUE	Depth Reference	RKB	6.5" Mud Mtr SN:	7360-650-0010	6.5" Circ Hrs:
Well Name:	ALBRIGHTON 3-10	Total Survey Corr.:	8.45	Tie Into Drill SURFACE		Production TD:	7245	6.5" Bit Hrs:
Rig:	CADE 25	Target Info:	1973' FWL @ 676' FSL			Spud Date:	25-May	Completion Date:

Survey Depth (ft)	Incl (°)	Azimuth (°)	Course Lgth (ft)	TVD (ft)	VS (ft)	Coordinates N/S (ft)		Coordinates E/W (ft)		DLS (°/100')	Bld Rate (°/100')	Wlk Rate (°/100')	Remarks
87	1.10	6.90	87	86.99	-0.42	0.83	N	0.10	E	1.26	1.3	7.9	
179	0.80	31.80	92	178.98	-0.93	2.25	N	0.54	E	0.55	-0.3	27.1	
267	0.90	41.00	88	266.97	-0.94	3.30	N	1.32	E	0.19	0.1	10.5	
357	0.40	114.80	90	356.97	-0.59	3.70	N	2.07	E	0.97	-0.6	82.0	
446	0.80	147.00	89	445.96	0.30	3.05	N	2.69	E	0.57	0.4	36.2	
536	1.60	152.40	90	535.94	2.03	1.41	N	3.62	E	0.90	0.9	6.0	
626	2.20	154.20	90	625.89	4.71	1.26	S	4.95	E	0.67	0.7	2.0	
732	2.70	147.00	106	731.80	8.87	5.19	S	7.19	E	0.55	0.5	-6.8	**SURFACE TD @ 782'MD**
816	3.20	134.70	84	815.68	13.05	8.50	S	9.94	E	0.96	0.6	-14.6	
911	3.30	140.30	95	910.53	18.35	12.47	S	13.57	E	0.35	0.1	5.9	
1006	1.80	122.00	95	1005.44	22.50	15.36	S	16.58	E	1.78	-1.6	-19.3	
1100	1.80	110.40	94	1099.39	25.38	16.66	S	19.22	E	0.39	0.0	-12.3	
1194	1.80	112.00	94	1193.34	28.22	17.73	S	21.97	E	0.05	0.0	1.7	
1289	2.10	107.90	95	1288.29	31.30	18.82	S	25.01	E	0.35	0.3	-4.3	
1384	0.20	41.70	95	1383.27	32.96	19.23	S	26.78	E	2.13	-2.0	-69.7	
1478	0.90	38.70	94	1477.26	32.99	18.53	S	27.35	E	0.75	0.7	-3.2	
1573	0.70	46.80	95	1572.25	33.10	17.55	S	28.24	E	0.24	-0.2	8.5	
1668	0.30	48.40	95	1667.25	33.25	16.99	S	28.85	E	0.42	-0.4	1.7	
1762	0.50	38.90	94	1761.25	33.31	16.51	S	29.29	E	0.22	0.2	-10.1	
1857	0.40	111.60	95	1856.24	33.64	16.31	S	29.86	E	0.57	-0.1	76.5	
1951	1.80	119.70	94	1950.22	35.42	17.16	S	31.44	E	1.49	1.5	8.6	
2046	3.00	122.50	95	2045.14	39.38	19.23	S	34.84	E	1.27	1.3	2.9	
2141	3.80	109.00	95	2139.97	44.85	21.60	S	39.91	E	1.19	0.8	-14.2	
2236	4.60	127.30	95	2234.72	51.65	24.93	S	45.92	E	1.63	0.8	19.3	
2331	6.20	135.40	95	2329.30	60.53	30.89	S	52.55	E	1.86	1.7	8.5	
2425	7.70	136.40	94	2422.60	71.78	39.07	S	60.46	E	1.60	1.6	1.1	
2521	8.70	137.80	96	2517.62	85.26	49.10	S	69.77	E	1.06	1.0	1.5	
2615	11.30	137.10	94	2610.19	101.32	61.12	S	80.82	E	2.77	2.8	-0.7	
2711	11.70	132.00	96	2704.26	120.29	74.52	S	94.45	E	1.14	0.4	-5.3	
2806	12.90	127.10	95	2797.08	140.49	87.36	S	110.07	E	1.67	1.3	-5.2	
2901	14.10	124.80	95	2889.46	162.66	100.36	S	128.03	E	1.38	1.3	-2.4	
2996	14.90	126.20	95	2981.43	186.43	114.18	S	147.39	E	0.92	0.8	1.5	
3090	13.90	125.00	94	3072.48	209.80	127.80	S	166.39	E	1.11	-1.1	-1.3	
3185	15.10	129.70	95	3164.45	233.57	142.25	S	185.26	E	1.77	1.3	4.9	
3280	13.60	128.50	95	3256.48	257.10	157.10	S	203.52	E	1.61	-1.6	-1.3	
3375	13.70	122.50	95	3348.81	279.48	170.10	S	221.75	E	1.49	0.1	-6.3	
3469	12.30	127.80	94	3440.40	300.58	182.22	S	239.05	E	1.95	-1.5	5.6	
3563	12.70	125.30	94	3532.17	320.92	194.33	S	255.40	E	0.72	0.4	-2.7	
3658	12.20	128.30	95	3624.94	341.40	206.58	S	271.80	E	0.86	-0.5	3.2	
3752	13.70	128.70	94	3716.54	362.46	219.70	S	288.28	E	1.60	1.6	0.4	
3847	14.60	127.80	95	3808.66	385.68	234.07	S	306.52	E	0.98	0.9	-0.9	
3942	15.30	126.90	95	3900.44	410.18	248.94	S	326.01	E	0.78	0.7	-0.9	
4037	16.00	126.00	95	3991.92	435.81	264.16	S	346.62	E	0.78	0.7	-0.9	
4132	15.20	125.70	95	4083.42	461.35	279.12	S	367.33	E	0.85	-0.8	-0.3	
4226	15.10	128.00	94	4174.16	485.91	293.85	S	386.98	E	0.65	-0.1	2.4	
4322	14.40	127.50	96	4266.99	510.35	308.82	S	406.31	E	0.74	-0.7	-0.5	
4417	13.50	130.50	95	4359.19	533.23	323.21	S	424.11	E	1.22	-0.9	3.2	
4511	13.10	132.20	94	4450.67	554.80	337.49	S	440.35	E	0.60	-0.4	1.8	
4607	13.20	127.50	96	4544.15	576.60	351.47	S	457.10	E	1.12	0.1	-4.9	
4702	14.30	130.10	95	4636.43	599.16	365.63	S	474.68	E	1.33	1.2	2.7	
4797	14.20	128.20	95	4728.51	622.53	380.40	S	492.81	E	0.50	-0.1	-2.0	
4892	14.40	125.90	95	4820.57	645.99	394.53	S	511.54	E	0.63	0.2	-2.4	
4986	13.40	121.00	94	4911.81	668.50	406.99	S	530.35	E	1.64	-1.1	-5.2	
5081	12.00	122.70	95	5004.49	689.30	418.00	S	548.09	E	1.53	-1.5	1.8	
5176	13.00	122.20	95	5097.24	709.79	429.03	S	565.45	E	1.06	1.1	-0.5	
5271	12.80	125.00	95	5189.84	730.95	440.76	S	583.11	E	0.69	-0.2	2.9	
5365	9.90	121.70	94	5281.99	749.40	450.98	S	598.52	E	3.16	-3.1	-3.5	
5459	8.70	119.40	94	5374.75	764.49	458.72	S	611.59	E	1.34	-1.3	-2.4	
5553	7.50	120.40	94	5467.82	777.62	465.31	S	623.07	E	1.29	-1.3	1.1	
5648	6.20	115.90	95	5562.14	788.81	470.69	S	633.03	E	1.48	-1.4	-4.7	
5743	4.70	126.60	95	5656.71	797.73	475.25	S	640.77	E	1.90	-1.6	11.3	
5837	3.00	129.60	94	5750.49	804.04	479.12	S	645.76	E	1.82	-1.8	3.2	
5932	1.10	174.20	95	5845.43	807.15	481.61	S	647.77	E	2.47	-2.0	46.9	
6027	1.20	138.00	95	5940.41	808.75	483.25	S	648.53	E	0.76	0.1	-38.1	
6215	0.80	136.80	188	6128.38	811.97	485.67	S	650.74	E	0.21	-0.2	-0.6	
6406	1.10	90.90	191	6319.36	814.77	486.67	S	653.49	E	0.41	0.2	-24.0	
6595	1.00	78.80	189	6508.33	817.32	486.38	S	656.92	E	0.13	-0.1	-6.4	
6784	0.60	100.60	189	6697.31	819.30	486.24	S	659.51	E	0.26	-0.2	11.5	
6974	0.60	86.80	190	6887.30	820.95	486.37	S	661.48	E	0.08	0.0	-7.3	
7195	0.30	99.20	221	7108.29	822.34	486.40	S	663.21	E	0.14	-0.1	5.6	**TD SURVEY**
7245	0.30	99.20	50	7158.29	822.57	486.44	S	663.47	E	0.00	0.0	0.0	**PROJECTION TO BIT**

Surveys

N/S	E/W	VS	TVD
0.83	0.10	-0.42	86.99
2.25	0.54	-0.93	178.98
3.30	1.32	-0.94	266.97
3.70	2.07	-0.59	356.97
3.05	2.69	0.30	445.96
1.41	3.62	2.03	535.94
-1.26	4.95	4.71	625.89
-5.19	7.19	8.87	731.80
-8.50	9.94	13.05	815.68
-12.47	13.57	18.35	910.53
-15.36	16.58	22.50	1005.44
-16.66	19.22	25.38	1099.39
-17.73	21.97	28.22	1193.34
-18.82	25.01	31.30	1288.29
-19.23	26.78	32.96	1383.27
-18.53	27.35	32.99	1477.26
-17.55	28.24	33.10	1572.25
-16.99	28.85	33.25	1667.25
-16.51	29.29	33.31	1761.25
-16.31	29.86	33.64	1856.24
-17.16	31.44	35.42	1950.22
-19.23	34.84	39.38	2045.14
-21.60	39.91	44.85	2139.97
-24.93	45.92	51.65	2234.72
-30.89	52.55	60.53	2329.30
-39.07	60.46	71.78	2422.60
-49.10	69.77	85.26	2517.62
-61.12	80.82	101.32	2610.19
-74.52	94.45	120.29	2704.26
-87.36	110.07	140.49	2797.08
-100.36	128.03	162.66	2889.46
-114.18	147.39	186.43	2981.43
-127.80	166.39	209.80	3072.48
-142.25	185.26	233.57	3164.45
-157.10	203.52	257.10	3256.48
-170.10	221.75	279.48	3348.81
-182.22	239.05	300.58	3440.40
-194.33	255.40	320.92	3532.17
-206.58	271.80	341.40	3624.94
-219.70	288.28	362.46	3716.54
-234.07	306.52	385.68	3808.66
-248.94	326.01	410.18	3900.44
-264.16	346.62	435.81	3991.92
-279.12	367.33	461.35	4083.42
-293.85	386.98	485.91	4174.16
-308.82	406.31	510.35	4266.99
-323.21	424.11	533.23	4359.19
-337.49	440.35	554.80	4450.67
-351.47	457.10	576.60	4544.15
-365.63	474.68	599.16	4636.43
-380.40	492.81	622.53	4728.51
-394.53	511.54	645.99	4820.57
-406.99	530.35	668.50	4911.81
-418.00	548.09	689.30	5004.49
-429.03	565.45	709.79	5097.24
-440.76	583.11	730.95	5189.84
-450.98	598.52	749.40	5281.99
-458.72	611.59	764.49	5374.75
-465.31	623.07	777.62	5467.82
-470.69	633.03	788.81	5562.14
-475.25	640.77	797.73	5656.71
-479.12	645.76	804.04	5750.49
-481.61	647.77	807.15	5845.43
-483.25	648.53	808.75	5940.41
-485.67	650.74	811.97	6128.38
-486.67	653.49	814.77	6319.36
-486.38	656.92	817.32	6508.33
-486.24	659.51	819.30	6697.31
-486.37	661.48	820.95	6887.30
-486.40	663.21	822.34	7108.29
-486.44	663.47	822.57	7158.29
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