

T H U M S   L O N G   B E A C H   C O M P A N Y

COMPLETED WELL  
MULTI-SHOT SURVEY

RUN DATE: 17-NOV-93

PAGE: 8

WELL NUMBER: C-239 M1

START DATE: 10/21/93

K.B. ELEVATION: 36.33

VENDOR: SCI-DRILL/B-H INTEQ

LAMBERT COORDINATES: N 4017645.68 E 4246266.51

SECTION BEARING: S43 0E

MEASURED DEPTH	COURSE LENGTH	DRIFT ANGLE	V E R T I C A L		D E P T H		D E V I A T I O N		T O T A L   C O O R D I N A T E S				TOTAL DISTANCE IN SECTION	READING DATE
			COURSE	TOTAL	SUB-SEA	COURSE	BEARING	NORTH	SOUTH	EAST	WEST			
6428	32	31 30	27.28	4723.18	4686.85	16.72	S34 30E	0.00	2873.17	2812.99	0.00	4019.76	11/05/93	
		31 15					S34 45E							
6460	32	31 0	27.43	4750.61	4714.28	16.48	S34 45E	0.00	2886.71	2822.38	0.00	4036.07	11/05/93	
		31 0					S34 45E							
6492	32	30 15	27.64	4778.25	4741.92	16.12	S34 22E	0.00	2900.01	2831.49	0.00	4052.01	11/05/93	
		29 30					S34 0E							
6524	32	29 0	27.99	4806.24	4769.91	15.51	S34 7E	0.00	2912.86	2840.19	0.00	4067.33	11/05/93	
		28 30					S34 15E							
6556	32	27 30	28.38	4834.62	4798.29	14.78	S33 52E	0.00	2925.13	2848.42	0.00	4081.92	11/05/93	
		26 45					S33 30E							
6588	32	26 15	28.70	4863.32	4826.99	14.15	S33 15E	0.00	2936.96	2856.18	0.00	4095.87	11/05/93	
		26 0					S33 0E							
6620	32	25 45	28.82	4892.14	4855.81	13.90	S32 45E	0.00	2948.65	2863.71	0.00	4109.55	11/05/93	
		25 30					S32 30E							
6651	31	24 45	28.15	4920.30	4883.97	12.98	S32 22E	0.00	2959.61	2870.66	0.00	4122.31	11/05/93	
		24 0					S32 15E							
6683	32	23 15	29.40	4949.70	4913.37	12.63	S32 0E	0.00	2970.33	2877.35	0.00	4134.71	11/05/93	
		22 45					S31 45E							
6715	32	21 30	29.77	4979.47	4943.14	11.73	S30 52E	0.00	2980.39	2883.37	0.00	4146.17	11/05/93	
		20 30					S30 0E							
6746	31	20 0	29.13	5008.60	4972.27	10.60	S29 45E	0.00	2989.60	2888.63	0.00	4156.49	11/05/93	
		19 30					S29 30E							
6778	32	18 45	30.30	5038.90	5002.57	10.29	S29 22E	0.00	2998.56	2893.67	0.00	4166.49	11/05/93	
		18 15					S29 15E							
6810	32	17 45	30.48	5069.38	5033.05	9.76	S29 22E	0.00	3007.06	2898.46	0.00	4175.97	11/05/93	
		17 15					S29 30E							
6842	32	17 0	30.60	5099.98	5063.65	9.36	S29 0E	0.00	3015.25	2903.00	0.00	4185.05	11/05/93	
		17 0					S28 30E							
6874	32	16 45	30.64	5130.62	5094.29	9.22	S28 30E	0.00	3023.35	2907.40	0.00	4193.98	11/05/93	
		16 45					S28 30E							
6906	32	16 45	30.64	5161.27	5124.94	9.22	S28 37E	0.00	3031.45	2911.81	0.00	4202.91	11/05/93	
		16 45					S28 45E							
6938	32	16 30	30.68	5191.95	5155.62	9.09	S28 37E	0.00	3039.42	2916.17	0.00	4211.72	11/05/93	
		16 15					S28 30E							
6972	34	16 15	32.64	5224.59	5188.26	9.51	S28 22E	0.00	3047.79	2920.69	0.00	4220.92	11/05/93	
		16 15					S28 15E							
7068	96	15 45	92.40	5316.98	5280.65	26.06	S28 0E	0.00	3070.80	2932.92	0.00	4246.09	11/05/93	
		15 15					S27 45E							
7164	96	15 0	92.73	5409.71	5373.38	24.85	S27 22E	0.00	3092.87	2944.35	0.00	4270.02	11/05/93	
		15 0					S27 0E							