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LAFAYETTE, LOUISIANA



DIRECTIONAL SURVEY REPORT

FINAL
COMPLETE SURVEY

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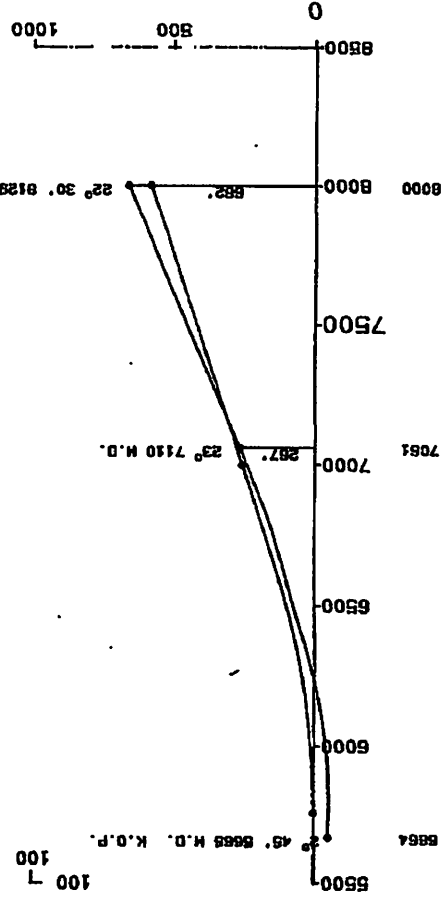
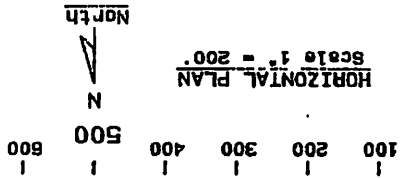
GRAND ENERGY, INC.
COMPANY

MERMENTAU MINERALS & LAND NO. 1
WELL NAME

CAMERON PARISH, LA
LOCATION

TYPE OF SURVEY Single Shot

SURVEY DEPTH 8129' MD



"BOTTOM HOLE LOC."
 683° N-78° 18'-E
 NORTH-124° EAST-681'
 TWD-8000' MD-8129'

"COMPLETION REPORT"

GRAND ENERGY INC.
 MEMPHIS MINERALS LAND NO. 2
 SECTION 13 T-14-S, R-6-M
 CAMERON PARISH, LA.

MERMENTAU MINERALS LAND NO. 2
 LITTLE CHENIER FIELD
 CAMERON PARISH, LA.

RADIUS OF CURVATURE CALCULATIONS

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MEASURED DEPTH Feet	B O R E - H O L E INCLINATION Deg Min	DIRECTION Deg Min	COURSE LENGTH Feet	VERTICAL DEPTH Feet	RECTANGULAR COORDINATES Feet	VERTICAL SECTION Feet	DOGLEG SEVERITY Deg/100ft.
2154.00	0 30	S 58 7 W	62.00	2153.95	8.60 S 4.43 W	-6.02	0.43
2217.00	0 45	S 62 7 W	63.00	2216.95	8.95 S 5.02 W	-6.67	0.40
2280.00	0 45	S 52 7 W	63.00	2279.94	9.39 S 5.71 W	-7.44	0.21
2342.00	0 45	S 36 7 W	62.00	2341.94	9.97 S 6.28 W	-8.11	0.34
2405.00	0 30	S 32 7 W	63.00	2404.93	10.54 S 6.66 W	-8.60	0.40
2468.00	0 15	S 48 7 W	63.00	2467.93	10.86 S 6.93 W	-8.92	0.43
2530.00	0 30	S 71 7 W	62.00	2529.93	11.06 S 7.27 W	-9.30	0.46
2593.00	0 45	S 75 7 W	63.00	2592.93	11.26 S 7.93 W	-9.98	0.40
2656.00	0 30	S 60 7 W	63.00	2655.92	11.52 S 8.57 W	-10.65	0.47
2719.00	0 30	S 57 7 W	63.00	2718.92	11.81 S 9.03 W	-11.17	0.04
2781.00	0 30	S 52 7 W	62.00	2780.92	12.12 S 9.48 W	-11.66	0.07
2844.00	0 15	S 46 7 W	63.00	2843.92	12.39 S 9.79 W	-12.02	0.40
2907.00	0 15	S 63 7 W	63.00	2906.92	12.55 S 10.01 W	-12.27	0.12
2969.00	0 0	0 0	62.00	2968.92	12.61 S 10.13 W	-12.40	0.40
3032.00	0 15	N 10 53 W	63.00	3031.92	12.48 S 10.16 W	-12.40	0.40
3095.00	0 15	N 22 53 W	63.00	3094.92	12.21 S 10.24 W	-12.43	0.08
3157.00	0 15	N 20 53 W	62.00	3156.92	11.98 S 10.34 W	-12.48	0.01
3220.00	0 0	0 0	63.00	3219.92	11.83 S 10.39 W	-12.50	0.40
3283.00	0 0	0 0	63.00	3282.92	11.83 S 10.39 W	-12.50	0.00
3346.00	0 15	S 62 7 W	63.00	3345.92	11.90 S 10.51 W	-12.63	0.40
3408.00	0 15	S 43 7 W	62.00	3407.91	12.06 S 10.72 W	-12.87	0.13
3471.00	0 45	S 45 7 W	63.00	3470.91	12.46 S 11.11 W	-13.33	0.79
3534.00	0 30	S 40 7 W	63.00	3533.91	12.95 S 11.57 W	-13.88	0.41
3596.00	0 30	S 64 7 W	62.00	3595.91	13.21 S 12.04 W	-14.39	0.60
3659.00	0 15	S 43 7 W	63.00	3658.90	13.39 S 12.40 W	-14.78	0.56

NERMENTAU MINERALS LAND NO. 2
 LITTLE CHENIER FIELD
 CAMERON PARISH, LA.

RADIUS OF CURVATURE CALCULATIONS

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MEASURED DEPTH Feet	BORE - HOLE INCLINATION Deg Min	HOLE DIRECTION Deg Min	COURSE LENGTH Feet	VERTICAL DEPTH Feet	RECTANGULAR COORDINATES Feet	VERTICAL SECTION Feet	DOGLEG SEVERITY Deg/100ft.
3722.00	0 15	S 47 7 W	63.00	3721.90	13.58 S 12.59 W	-15.01	0.03
3784.00	0 15	N 40 53 W	62.00	3783.90	13.57 S 12.84 W	-15.24	0.58
3850.00	0 45	N 32 53 W	65.00	3849.90	13.11 S 13.18 W	-15.49	0.76
3910.00	1 0	N 57 53 W	60.00	3909.89	12.47 S 13.83 W	-16.00	0.73
3972.00	1 0	N 61 53 W	62.00	3971.88	11.93 S 14.76 W	-16.81	0.11
4035.00	1 0	N 43 53 W	63.00	4034.87	11.27 S 15.64 W	-17.54	0.50
4098.00	0 45	N 48 53 W	63.00	4097.87	10.60 S 16.33 W	-18.09	0.41
4160.00	0 45	N 62 53 W	62.00	4159.86	10.15 S 17.00 W	-18.66	0.29
4223.00	0 30	N 68 53 W	63.00	4222.86	9.87 S 17.63 W	-19.22	0.41
4286.00	0 30	S 85 7 W	63.00	4285.86	9.79 S 18.17 W	-19.73	0.36
4349.00	1 0	S 63 7 W	63.00	4348.85	10.01 S 18.96 W	-20.55	0.90
4411.00	1 30	S 79 7 W	62.00	4410.83	10.45 S 20.23 W	-21.89	0.98
4474.00	0 45	S 79 7 W	63.00	4473.82	10.68 S 21.45 W	-23.12	1.19
4537.00	1 15	S 84 7 W	63.00	4536.81	10.84 S 22.54 W	-24.22	0.80
4599.00	1 30	N 73 53 W	62.00	4598.79	10.71 S 24.01 W	-25.64	0.93
4662.00	1 15	S 85 7 W	63.00	4661.78	10.57 S 25.50 W	-27.08	0.89
4725.00	1 15	S 89 7 W	63.00	4724.76	10.63 S 26.88 W	-28.44	0.14
4787.00	1 0	N 66 53 W	62.00	4786.75	10.40 S 28.06 W	-29.55	0.85
4850.00	1 0	S 89 7 W	63.00	4849.74	10.19 S 29.13 W	-30.56	0.66
4913.00	1 15	N 89 53 W	63.00	4912.73	10.20 S 30.37 W	-31.78	0.40
4975.00	1 0	N 71 53 W	62.00	4974.72	10.01 S 31.57 W	-32.91	0.69
5038.00	1 0	N 54 53 W	63.00	5037.71	9.52 S 32.55 W	-33.78	0.47
5101.00	1 15	S 75 7 W	63.00	5100.69	9.31 S 33.73 W	-34.89	1.55
5163.00	1 30	N 79 53 W	62.00	5162.68	9.37 S 35.20 W	-36.35	1.04
5226.00	1 15	N 75 53 W	63.00	5225.66	9.05 S 36.68 W	-37.74	0.42

MEERMENTAU MINERALS LAND NO. 2
 LITTLE CHENIER FIELD
 CAMERON PARISH, LA.

RADIUS OF CURVATURE CALCULATIONS

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MEASURED DEPTH Feet	BORE-HOLE INCLINATION Deg Min	DIRECTION Deg Min	COURSE LENGTH Feet	VERTICAL DEPTH Feet	RECTANGULAR COORDINATES Feet	VERTICAL SECTION Feet	DOGLEG SEVERITY Deg/100ft.
5289.00	1 30	N 74 53 W	63.00	5289.64	8.67 S 38.14 W	-39.10	0.40
5352.00	1 30	N 68 53 W	63.00	5351.62	8.16 S 39.71 W	-40.54	0.25
5414.00	1 45	N 58 53 W	62.00	5413.59	7.38 S 41.28 W	-41.93	0.61
5477.00	1 30	N 62 53 W	63.00	5476.57	6.51 S 42.84 W	-43.29	0.44
5540.00	2 15	N 85 53 W	63.00	5539.53	5.96 S 44.82 W	-45.12	1.66
5602.00	1 30	N 69 53 W	62.00	5601.50	5.54 S 46.79 W	-46.97	1.46
5665.00	2 45	N 78 53 W	63.00	5664.46	4.91 S 49.04 W	-49.05	2.05
5769.00	1 24	N 81 36 W	103.00	5767.39	4.28 S 52.72 W	-52.53	1.31
5830.00	0 37	N 47 12 E	62.00	5829.39	3.44 S 52.98 W	-52.62	2.99
5893.00	2 48	N 74 7 E	63.00	5892.34	2.53 S 51.35 W	-50.65	3.59
5955.00	5 51	N 86 37 E	62.00	5954.16	1.75 S 46.75 W	-46.19	5.12
6017.00	7 0	N 78 12 E	62.00	6015.77	0.83 S 39.88 W	-39.27	2.39
6080.00	9 0	S 86 12 E	63.00	6078.15	0.22 S 31.16 W	-30.60	4.66
6142.00	11 12	S 87 0 E	62.00	6139.19	0.87 S 20.31 W	-20.09	3.95
6206.00	13 54	S 83 36 E	64.00	6201.65	2.01 S 6.45 W	-6.72	4.37
6269.00	15 6	S 84 0 E	63.00	6262.65	3.71 S 9.23 E	8.33	1.91
6337.00	15 54	N 88 12 E	68.00	6328.17	4.37 S 27.38 E	25.99	3.28
6398.00	17 24	N 86 48 E	61.00	6386.61	3.61 S 44.84 E	43.26	2.55
6469.00	18 24	N 80 48 E	71.00	6454.55	1.38 S 65.35 E	63.81	2.83
6531.00	16 6	N 75 18 E	62.00	6514.07	2.21 N 82.31 E	81.15	2.53
6595.00	14 36	N 78 0 E	64.00	6575.78	6.12 N 98.79 E	98.08	2.60
6656.00	15 36	N 84 0 E	61.00	6634.69	8.60 N 114.48 E	113.95	3.04
6719.00	17 12	N 82 18 E	63.00	6695.11	10.72 N 132.14 E	131.69	2.65
6781.00	17 0	N 75 12 E	62.00	6754.37	14.28 N 150.01 E	149.91	3.38
6842.00	19 6	N 75 0 E	61.00	6812.37	19.14 N 168.27 E	168.77	3.44

MEARENTAU MINERALS LAND NO. 2
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 CAMERON PARISH, LA.

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MEASURED DEPTH Feet	B O R E - H O L E INCLINATION DIRECTION Deg Min Deg Min		COURSE LENGTH Feet	VERTICAL DEPTH Feet	R E C T A N G U L A R C O O R D I N A T E S Feet Feet		VERTICAL SECTION Feet	DOGLEG SEVERITY Deg/100ft.
6873.00	20 48	N 76 48 E	31.00	6841.50	21.72 N	178.53 E	179.33	5.83
7110.00	23 0	N 74 0 E	237.00	7051.39	43.89 N	264.05 E	267.57	1.03
7541.00	23 30	N 78 0 E	431.00	7457.39	85.15 N	429.11 E	437.47	0.38
7852.00	22 0	N 81 0 E	311.00	7744.18	107.06 N	547.34 E	557.71	0.81
8068.00	22 30	N 81 0 E	216.00	7944.10	119.85 N	628.13 E	639.44	0.23
8129.00	22 30	N 81 0 E	61.00	8000.45	123.51 N	651.18 E	662.76	0.00
BOTTOM HOLE LOC.								
Final Station Closure - Distance:			662.79 Feet					
- Direction:			N 79 16 E					