



Scientific Drilling

Altura
ENERGY LTD.

ALTURA ENERGY LTD.

Field: Hobbs, Grayburg

Site: Lea County, NM

Well: NHU #33-734

Wellpath: VH - Job #32K0500170/166

Survey: 5/17/00-5/20/00

SUR: 511/5 + 2275/E Unit 8

BHL: 669/5 + 2672/E Unit N

33-185-380

30-025-35011

This survey is correct to the best of my knowledge
and is supported by actual field data.

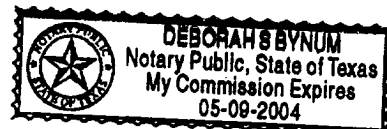
Blharston

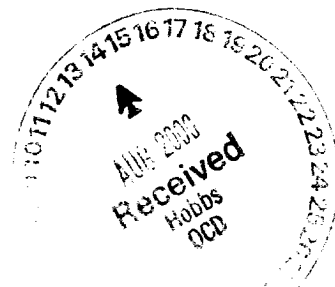
.....Company Representative

Notorized this date 27th of June, 2000.

Deborah Sue Bynum

Notary Signature
County of Midland
State of Texas





SCIENTIFIC DRILLING SURVEY REPORT

Company: ALTURA ENERGY LTD.
Field: Hobbs, Grayburg
Site: Lea County, NM
Well: NHU #33-734
Wellpath: VH - Job #32K0500170/166

Date: 6/27/2000 Time: 13:37:28 Page: 1
Co-ordinate(NE) Reference: Site: Lea County, NM, True North
Vertical (TVD) Reference: SITE 0.0 above Mean Sea Level
Section (VS) Reference: Slot (0.0E,0.0N,291.9Azi)
Survey Calculation Method: Minimum Curvature

Survey: 5/17/00-5/20/00
KSRG 0'-1786'/ST 1849'-4383'

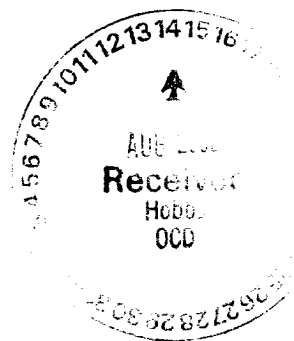
Start Date: 6/14/2000

Company: SDI
Tool: Keeper

Engineer: Kyle Shoup/C. Woolfolk

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS d/100ft	ClsA deg	ClsD ft
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.0
100.0	0.10	138.22	100.0	-0.1	0.1	-0.1	0.10	138.22	0.1
200.0	0.95	150.97	200.0	-0.9	0.5	-0.8	0.85	148.76	1.0
300.0	0.77	138.36	300.0	-2.1	1.4	-2.0	0.26	146.71	2.5
400.0	0.50	145.75	400.0	-2.9	2.1	-3.0	0.28	145.03	3.6
500.0	0.35	186.18	500.0	-3.6	2.3	-3.5	0.33	147.81	4.3
600.0	0.14	183.98	600.0	-4.0	2.2	-3.6	0.21	151.06	4.6
700.0	0.16	172.81	700.0	-4.3	2.2	-3.7	0.04	152.46	4.8
800.0	0.28	116.40	800.0	-4.5	2.5	-4.0	0.23	151.40	5.2
900.0	0.22	120.52	900.0	-4.7	2.9	-4.4	0.06	148.94	5.5
1000.0	0.24	249.45	1000.0	-4.9	2.8	-4.5	0.42	150.09	5.7
1100.0	0.31	236.58	1100.0	-5.1	2.4	-4.2	0.09	154.91	5.7
1200.0	0.43	206.59	1200.0	-5.6	2.0	-4.0	0.22	160.31	6.0
1300.0	0.64	215.05	1300.0	-6.4	1.5	-3.8	0.22	166.63	6.6
1400.0	0.72	210.67	1400.0	-7.4	0.9	-3.6	0.10	173.20	7.5
1500.0	0.84	224.16	1499.9	-8.5	0.1	-3.2	0.22	179.64	8.5
1600.0	0.94	291.98	1599.9	-8.7	-1.2	-2.1	1.00	187.97	8.8
1700.0	0.44	293.38	1699.9	-8.2	-2.3	-0.9	0.50	195.79	8.6
1786.3	0.21	295.21	1786.2	-8.0	-2.8	-0.4	0.27	199.06	8.5
1849.0	1.26	303.21	1848.9	-7.6	-3.5	0.4	1.68	204.43	8.4
1912.0	2.05	305.31	1911.9	-6.6	-5.0	2.1	1.26	216.97	8.2
1973.0	3.06	294.30	1972.8	-5.3	-7.3	4.8	1.83	234.21	9.0
2036.0	3.75	289.75	2035.7	-3.9	-10.8	8.6	1.18	250.16	11.5
2098.0	3.69	301.64	2097.6	-2.2	-14.4	12.6	1.25	261.45	14.6
2160.0	4.69	296.37	2159.4	0.0	-18.4	17.1	1.73	270.02	18.4
2222.0	5.57	292.19	2221.2	2.3	-23.4	22.6	1.54	275.53	23.5
2284.0	6.89	292.25	2282.8	4.8	-29.7	29.3	2.13	279.22	30.1
2347.0	8.02	294.77	2345.3	8.1	-37.2	37.5	1.87	282.28	38.0
2441.0	9.71	291.37	2438.2	13.7	-50.5	52.0	1.88	285.20	52.3
2503.0	10.52	289.80	2499.2	17.5	-60.7	62.9	1.38	286.12	63.2
2597.0	11.28	290.54	2591.5	23.7	-77.4	80.6	0.82	287.02	80.9
2690.0	10.89	293.63	2682.8	30.4	-93.9	98.5	0.76	287.93	98.7
2782.0	11.35	294.89	2773.0	37.7	-110.1	116.2	0.57	288.89	116.4
2876.0	10.72	297.08	2865.3	45.6	-126.3	134.2	0.80	289.84	134.3
2937.0	11.08	294.25	2925.2	50.5	-136.7	145.7	1.06	290.30	145.7
3029.0	11.46	294.13	3015.4	57.9	-153.1	163.6	0.41	290.72	163.7
3121.0	10.87	286.82	3105.7	64.2	-169.7	181.4	1.67	290.71	181.4
3215.0	11.22	288.08	3197.9	69.6	-186.9	199.4	0.45	290.41	199.4
3310.0	11.20	290.54	3291.1	75.7	-204.3	217.8	0.50	290.32	217.9
3403.0	10.96	291.91	3382.4	82.1	-221.0	235.7	0.38	290.39	235.8
3497.0	10.72	289.67	3474.7	88.4	-237.5	253.4	0.52	290.42	253.4
3559.0	10.77	287.91	3535.6	92.1	-248.5	264.9	0.54	290.35	265.0
3622.0	11.18	288.86	3597.5	95.9	-259.8	276.9	0.71	290.26	277.0
3682.0	11.22	289.06	3656.3	99.7	-270.9	288.5	0.09	290.21	288.6
3775.0	11.15	291.41	3747.6	105.9	-287.8	306.5	0.50	290.21	306.7
3837.0	11.37	298.78	3808.4	111.1	-298.7	318.6	2.35	290.40	318.7
3869.0	11.23	297.73	3839.8	114.0	-304.2	324.8	0.78	290.55	324.9
3900.0	11.23	297.73	3870.2	116.9	-309.6	330.8	0.00	290.68	330.9



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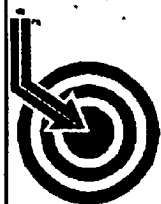
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MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS d/100ft	ClsA deg	ClsD ft
3963.0	10.88	298.38	3932.0	122.5	-320.2	342.8	0.59	290.94	342.9
4023.0	10.79	298.03	3990.9	127.9	-330.2	354.1	0.19	291.17	354.1
4086.0	11.62	294.99	4052.7	133.3	-341.1	366.3	1.62	291.35	366.3
4180.0	11.87	294.82	4144.8	141.4	-358.5	385.4	0.27	291.52	385.4
4275.0	12.02	294.00	4237.7	149.5	-376.4	405.0	0.24	291.66	405.0
4383.0	12.22	293.22	4343.3	158.6	-397.2	427.7	0.24	291.76	427.7

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