

SCIENTIFIC DRILLING INTERNATIONAL

Client : ALTURA ENERGY LTD.
 Well Name : NORTH HOBBS UNIT #33-545
 Field : LEA COUNTY, NEW MEXICO
 Site :
 SHL :
 Plan BHL :

Page 1 of 2
 Date 7 AUGUST 1998
 Filename : NHU33545

Height Of WELLSITE Datum Above Field Datum 0.00 ft No Interpolation

MD ft	INC deg	DIR deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	D'LEG °/100
0.0	0.00	N 0.00°E	0.00	0.00	0.00	0.00	0.0
100.0	0.50	S70.38°E	100.00	-0.15	0.41	0.42	0.5
200.0	0.59	S85.24°E	199.99	-0.34	1.34	1.36	0.2
300.0	0.65	S84.34°E	299.99	-0.43	2.41	2.44	0.1
400.0	0.54	S51.23°E	399.98	-0.79	3.34	3.41	0.4
500.0	0.85	S16.29°E	499.98	-1.79	3.92	4.08	0.5
600.0	1.22	S 8.88°W	599.96	-3.56	3.96	4.31	0.6
700.0	1.67	S17.54°W	699.93	-6.00	3.36	3.96	0.5
800.0	2.13	S23.27°W	799.87	-9.09	2.19	3.12	0.5
900.0	2.65	S38.50°W	899.79	-12.61	0.01	1.32	0.8
1000.0	2.90	S43.20°W	999.67	-16.26	-3.16	-1.46	0.3
1100.0	3.26	S57.67°W	1099.53	-19.63	-7.29	-5.22	0.9
1200.0	3.42	S59.88°W	1199.36	-22.65	-12.27	-9.86	0.2
1300.0	3.37	S63.45°W	1299.18	-25.46	-17.48	-14.75	0.2
1400.0	3.13	S66.41°W	1399.02	-27.86	-22.61	-19.61	0.3
1424.0	2.92	S66.98°W	1422.99	-28.36	-23.78	-20.71	0.9
1500.0	2.79	S77.93°W	1498.89	-29.51	-27.37	-24.16	0.7
1600.0	3.27	S82.50°W	1598.75	-30.39	-32.58	-29.25	0.5
1700.0	3.60	S79.54°W	1698.57	-31.33	-38.49	-35.04	0.4
1800.0	5.39	S44.18°W	1798.28	-35.27	-44.85	-40.96	3.2
1900.0	6.13	S24.06°W	1897.79	-43.52	-50.30	-45.52	2.1
2000.0	6.43	S 7.63°W	1997.19	-53.94	-53.22	-47.35	1.8
2100.0	6.36	S16.63°E	2096.59	-64.80	-52.38	-45.39	2.7
2200.0	6.78	S40.83°E	2195.95	-74.58	-46.94	-38.96	2.8
2300.0	7.05	S53.49°E	2295.23	-82.69	-38.14	-29.37	1.5
2400.0	6.79	S74.36°E	2394.52	-87.94	-27.52	-18.26	2.5
2500.0	7.34	S85.75°E	2493.76	-90.01	-15.45	-6.05	1.5
2600.0	8.51	S89.00°E	2592.80	-90.61	-1.69	7.71	1.3
2700.0	9.56	N86.22°E	2691.56	-90.19	14.00	23.27	1.3
2800.0	10.51	N86.69°E	2790.03	-89.12	31.39	40.46	1.0
2900.0	12.83	S87.93°E	2887.96	-88.99	51.60	60.54	2.6
3000.0	14.15	S88.17°E	2985.20	-89.78	74.91	83.81	1.3
3100.0	15.46	N89.82°E	3081.88	-90.13	100.46	109.25	1.4
3200.0	17.09	N89.42°E	3177.87	-89.94	128.48	137.11	1.6
3300.0	20.08	N88.80°E	3272.64	-89.43	160.34	168.74	3.0
3400.0	21.44	N85.20°E	3366.15	-87.54	195.72	203.74	1.9
3500.0	22.67	N86.76°E	3458.83	-84.92	233.17	240.72	1.4
3600.0	24.69	N89.80°E	3550.41	-83.76	273.31	280.51	2.4
3700.0	26.61	N89.57°E	3640.55	-83.52	316.59	323.54	1.9
3800.0	27.96	N88.77°E	3729.43	-82.85	362.42	369.06	1.4

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3900.0	28.54	N88.45°E	3817.52	-81.70	409.74	416.00	0.6
4000.0	27.86	N87.31°E	3905.65	-79.96	456.96	462.79	0.9
4100.0	27.93	N86.91°E	3994.03	-77.60	503.69	509.02	0.2
4200.0	28.16	N88.36°E	4082.29	-75.66	550.66	555.54	0.7
4300.0	28.26	N88.83°E	4170.41	-74.50	597.92	602.42	0.2
4400.0	28.64	N88.59°E	4258.33	-73.43	645.54	649.68	0.4
4500.0	29.65	N88.79°E	4345.67	-72.32	694.23	697.99	1.0

Origin of Bottom Hole Closure WELLSITE CENTRE
 Bottom Hole Closure 698 ft S84.05°E