

Scientific Drilling Planning Report

Company: Altura Energy Ltd. Field: North Hobbs Unit Site: Lea County New Mexico Well: North Hobbs Unit #33-545 Wellpath: OH Original hole	Date: 5/28/98 Co-ordinate(N/E) Reference: Site: Lea County New Mexico, True North Vertical (TVD) Reference: SITE 0.0 above Mean Sea Level Section (VS) Reference: Site (0.0E,0.0N,92.0Azi) Plan: Plan #1
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Section 1 : Straight MD Part 1 Hold

MD ft	Incl deg	Azima deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS d/100ft	Build d/100ft	Turn d/100ft	TFO deg
1300.0	0.00	92.05	1300.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
1400.0	0.00	92.05	1400.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
1500.0	0.00	92.05	1500.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
1600.0	0.00	92.05	1600.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
1700.0	0.00	92.05	1700.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
1800.0	0.00	92.05	1800.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
1850.0	0.00	92.05	1850.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00

Section 2 : DT5 CH Tang Part 1 Build 2.25

MD ft	Incl deg	Azima deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS d/100ft	Build d/100ft	Turn d/100ft	TFO deg
1900.0	1.13	92.05	1900.0	0.0	0.5	0.5	2.25	2.25	0.00	0.00
2000.0	3.38	92.05	1999.9	-0.2	4.4	4.4	2.25	2.25	0.00	0.00
2100.0	5.63	92.05	2099.6	-0.4	12.3	12.3	2.25	2.25	0.00	0.00
2200.0	7.88	92.05	2198.9	-0.9	24.0	24.0	2.25	2.25	0.00	0.00
2300.0	10.13	92.05	2297.7	-1.4	39.6	39.7	2.25	2.25	0.00	0.00
2400.0	12.38	92.05	2395.7	-2.1	59.1	59.2	2.25	2.25	0.00	0.00
2500.0	14.63	92.05	2493.0	-2.9	82.5	82.5	2.25	2.25	0.00	0.00
2600.0	16.88	92.05	2589.2	-3.9	109.6	109.7	2.25	2.25	0.00	0.00
2653.9	18.09	92.05	2640.6	-4.5	125.7	125.8	2.25	2.25	0.00	0.00

Section 3 : DT5 CH Tang Part 2 Hold

MD ft	Incl deg	Azima deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS d/100ft	Build d/100ft	Turn d/100ft	TFO deg
2700.0	18.09	92.05	2684.4	-5.0	140.1	140.2	0.00	0.00	0.00	0.00
2800.0	18.09	92.05	2779.5	-6.1	171.1	171.2	0.00	0.00	0.00	0.00
2900.0	18.09	92.05	2874.6	-7.2	202.1	202.2	0.00	0.00	0.00	0.00
3000.0	18.09	92.05	2969.6	-8.3	233.1	233.3	0.00	0.00	0.00	0.00
3100.0	18.09	92.05	3064.7	-9.4	264.2	264.3	0.00	0.00	0.00	0.00
3200.0	18.09	92.05	3159.7	-10.5	295.2	295.4	0.00	0.00	0.00	0.00
3300.0	18.09	92.05	3254.8	-11.7	326.2	326.4	0.00	0.00	0.00	0.00
3400.0	18.09	92.05	3349.8	-12.8	357.2	357.5	0.00	0.00	0.00	0.00
3500.0	18.09	92.05	3444.9	-13.9	388.3	388.5	0.00	0.00	0.00	0.00
3600.0	18.09	92.05	3540.0	-15.0	419.3	419.6	0.00	0.00	0.00	0.00
3700.0	18.09	92.05	3635.0	-16.1	450.3	450.6	0.00	0.00	0.00	0.00
3800.0	18.09	92.05	3730.1	-17.2	481.3	481.7	0.00	0.00	0.00	0.00
3900.0	18.09	92.05	3825.1	-18.3	512.4	512.7	0.00	0.00	0.00	0.00
4000.0	18.09	92.05	3920.2	-19.4	543.4	543.7	0.00	0.00	0.00	0.00
4100.0	18.09	92.05	4015.3	-20.5	574.4	574.8	0.00	0.00	0.00	0.00
4200.0	18.09	92.05	4110.3	-21.6	605.5	605.8	0.00	0.00	0.00	0.00
4300.0	18.09	92.05	4205.4	-22.7	636.5	636.9	0.00	0.00	0.00	0.00
4400.0	18.09	92.05	4300.4	-23.8	667.5	667.9	0.00	0.00	0.00	0.00
4504.7	18.09	92.05	4400.0	-25.0	700.0	700.4	0.00	0.00	0.00	0.00