

Scientific Drilling Inc.

Planning Report

Company: Altura Energy Ltd.	Date: 03/08/2000	Time: 15:51:51	Page: 1
Field: North Hobbs GSA Unit	Co-ordinate(NE) Reference: Site: Lea County New Mexico, True North		
Site: Lea County New Mexico	Vertical (TVD) Reference: SITE 0.0 above Mean Sea Level		
Well: NHGSAU "33" #631	Section (VS) Reference: Site (0.0E,0.0N,113.1Azi)		
Wellpath: OH Original hole	Plan: Plan #1		

Field: North Hobbs GSA Unit		
Map System: US State Plane Coordinate System 1927	Map Zone: New Mexico, Eastern Zone	
Ellipsoid: Clarke - 1866	North Reference: True	
Sys Datum: Mean Sea Level	Geomagnetic Model: IGRF2000	

Site: Lea County New Mexico		
Site Position:	Northing: ft	Latitude:
From: Local Only	Easting: ft	Longitude:
Position Uncertainty: 0.0 ft		Magnetic Declination: 0.00 deg
Water Depth: 0.0 ft		Grid Convergence: deg

Well: NHGSAU "33" #631		
Well Position: +N/-S 0.0 ft	Northing: ft	Latitude:
From Slot: +E/-W 0.0 ft	Easting : ft	Longitude:
Position Uncertainty: 0.0 ft		

Wellpath: OH Original hole	Drilled From: Surface	
Vertical Section: +N/-S 0.0 ft	Tie-on Depth: ft	
From: Site +E/-W 0.0 ft	V.Section Direction: 113.15 deg	
Measured Depth Reference: SITE 0.0 ft	Above System Datum: Mean Sea Level	

Plan: Plan #1	Date Composed: 01/13/2000	
	Version: 1	
Principal: Yes	Locked: No	

Plan Section Information

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0.0	0.00	113.15	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1700.0	0.00	113.15	1700.0	0.0	0.0	0.00	0.00	0.00	113.15	
2567.3	21.68	113.15	2546.8	-63.8	149.1	2.50	2.50	0.00	113.15	
4262.5	21.68	113.15	4122.0	-310.0	725.0	0.00	0.00	0.00	0.00	Mid Pay 631
4499.3	21.68	113.15	4342.0	-344.4	805.4	0.00	0.00	0.00	0.00	

Section 1 : Start Hold

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
0.0	0.00	113.15	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
100.0	0.00	113.15	100.0	0.0	0.0	0.0	0.00	0.00	0.00	113.15
200.0	0.00	113.15	200.0	0.0	0.0	0.0	0.00	0.00	0.00	113.15
300.0	0.00	113.15	300.0	0.0	0.0	0.0	0.00	0.00	0.00	113.15
400.0	0.00	113.15	400.0	0.0	0.0	0.0	0.00	0.00	0.00	113.15
500.0	0.00	113.15	500.0	0.0	0.0	0.0	0.00	0.00	0.00	113.15
600.0	0.00	113.15	600.0	0.0	0.0	0.0	0.00	0.00	0.00	113.15
700.0	0.00	113.15	700.0	0.0	0.0	0.0	0.00	0.00	0.00	113.15
800.0	0.00	113.15	800.0	0.0	0.0	0.0	0.00	0.00	0.00	113.15
900.0	0.00	113.15	900.0	0.0	0.0	0.0	0.00	0.00	0.00	113.15
1000.0	0.00	113.15	1000.0	0.0	0.0	0.0	0.00	0.00	0.00	113.15
1100.0	0.00	113.15	1100.0	0.0	0.0	0.0	0.00	0.00	0.00	113.15
1200.0	0.00	113.15	1200.0	0.0	0.0	0.0	0.00	0.00	0.00	113.15
1300.0	0.00	113.15	1300.0	0.0	0.0	0.0	0.00	0.00	0.00	113.15
1400.0	0.00	113.15	1400.0	0.0	0.0	0.0	0.00	0.00	0.00	113.15
1500.0	0.00	113.15	1500.0	0.0	0.0	0.0	0.00	0.00	0.00	113.15
1600.0	0.00	113.15	1600.0	0.0	0.0	0.0	0.00	0.00	0.00	113.15
1700.0	0.00	113.15	1700.0	0.0	0.0	0.0	0.00	0.00	0.00	113.15

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Planning Report

Company: Akura Energy Ltd.
Field: North Hobbs GSA Unit
Site: Lea County New Mexico
Well: NHGSAU "33" #631
Wellpath: OH Original hole

Date: 03/08/2000 **Time:** 15:51:51 **Page:** 2
Co-ordinate(NE) 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,113.1Azi)
Plan: Plan #1

Section 2 : Start Build 2.50

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
1800.0	2.50	113.15	1800.0	-0.9	2.0	2.2	2.50	2.50	0.00	0.00
1900.0	5.00	113.15	1899.7	-3.4	8.0	8.7	2.50	2.50	0.00	0.00
2000.0	7.50	113.15	1999.1	-7.7	18.0	19.6	2.50	2.50	0.00	0.00
2100.0	10.00	113.15	2098.0	-13.7	32.0	34.8	2.50	2.50	0.00	0.00
2200.0	12.50	113.15	2196.0	-21.4	50.0	54.3	2.50	2.50	0.00	0.00
2300.0	15.00	113.15	2293.2	-30.7	71.8	78.1	2.50	2.50	0.00	0.00
2400.0	17.50	113.15	2389.2	-41.7	97.5	106.1	2.50	2.50	0.00	0.00
2500.0	20.00	113.15	2483.9	-54.3	127.1	138.2	2.50	2.50	0.00	0.00
2567.3	21.68	113.15	2546.8	-63.8	149.1	162.2	2.50	2.50	0.00	0.00

Section 3 : Start Hold

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
2600.0	21.68	113.15	2577.1	-68.5	160.2	174.2	0.00	0.00	0.00	0.00
2700.0	21.68	113.15	2670.1	-83.0	194.2	211.2	0.00	0.00	0.00	0.00
2800.0	21.68	113.15	2763.0	-97.6	228.2	248.1	0.00	0.00	0.00	0.00
2900.0	21.68	113.15	2855.9	-112.1	262.1	285.1	0.00	0.00	0.00	0.00
3000.0	21.68	113.15	2948.8	-126.6	296.1	322.0	0.00	0.00	0.00	0.00
3100.0	21.68	113.15	3041.8	-141.1	330.1	359.0	0.00	0.00	0.00	0.00
3200.0	21.68	113.15	3134.7	-155.7	364.0	395.9	0.00	0.00	0.00	0.00
3300.0	21.68	113.15	3227.6	-170.2	398.0	432.9	0.00	0.00	0.00	0.00
3400.0	21.68	113.15	3320.5	-184.7	432.0	469.8	0.00	0.00	0.00	0.00
3500.0	21.68	113.15	3413.4	-199.2	466.0	506.8	0.00	0.00	0.00	0.00
3600.0	21.68	113.15	3506.4	-213.8	499.9	543.7	0.00	0.00	0.00	0.00
3700.0	21.68	113.15	3599.3	-228.3	533.9	580.7	0.00	0.00	0.00	0.00
3800.0	21.68	113.15	3692.2	-242.8	567.9	617.6	0.00	0.00	0.00	0.00
3900.0	21.68	113.15	3785.1	-257.3	601.8	654.6	0.00	0.00	0.00	0.00
4000.0	21.68	113.15	3878.1	-271.9	635.8	691.5	0.00	0.00	0.00	0.00
4100.0	21.68	113.15	3971.0	-286.4	669.8	728.5	0.00	0.00	0.00	0.00
4200.0	21.68	113.15	4063.9	-300.9	703.8	765.4	0.00	0.00	0.00	0.00
4262.5	21.68	113.15	4122.0	-310.0	725.0	788.5	0.00	0.00	0.00	0.00

Section 4 : Start Hold

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
4300.0	21.68	113.15	4156.8	-315.4	737.7	802.3	0.00	0.00	0.00	0.00
4400.0	21.68	113.15	4249.8	-330.0	771.7	839.3	0.00	0.00	0.00	0.00
4499.3	21.68	113.15	4342.0	-344.4	805.4	876.0	0.00	0.00	0.00	0.00

