

District I
 PO Box 1980, Hobbs, NM 88241-1980
 District II
 811 S. 1st Street, Artesia, NM 88210-2834
 District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 District IV
 2040 South Pacheco, Santa Fe, NM 87505

OIL CONSERVATION DIVISION
 2040 South Pacheco
 Santa Fe, NM 87505

AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator name and Address Altura Energy LTD P.O. Box 4294 Houston, TX 77210-4294		² OGRID Number 157984
⁴ Property Code 19520	⁵ Property Name North Hobbs G/SA Unit	³ API Number 30-025-34980
		⁶ Well No. 513

⁷ Surface Location									
UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
L	33	18-S	38-E		1659	South	918	West	Lea

⁸ Proposed Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
L	33	18-S	38-E		1672	South	664	West	Lea
⁹ Proposed Pool 1 Hobbs; Grayburg - San Andres					¹⁰ Proposed Pool 2				

¹¹ Work Type Code N	¹² Well Type Code O	¹³ Cable/Rotary R	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 3637
¹⁶ Multiple No	¹⁷ Proposed Depth 4500'	¹⁸ Formation San Andres	¹⁹ Contractor Key Energy	²⁰ Spud Date May, 2000

²¹ Proposed Casing and Cement Program					
Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
18	14	Conductor	40	50	Surface
12-1/4	8-5/8	24	1650	775	Surface
7-7/8	5-1/2	15.5	4500	750	Surface

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

See attached for proposed drilling program.

BOP Program 3000# Ram Preventer

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief.	OIL CONSERVATION DIVISION	
Signature: Mark Stephens		
Printed name: Mark Stephens (281) 552-1158	Approved by: ORIGINAL SIGNED BY CHRIS WILLIAMS DISTRICT I SUPERVISOR	
Title: Business Analyst (SG)	Title:	
	Approval: MAR 23 2000	Expiration Date:

Permit Expires 1 Year From Approval
 But Unless Drilling Underway

JCT

8

Proposed Drilling Program
North Hobbs G/SA Unit No. 33-513
Lea County, New Mexico

A 14" conductor will be set and cemented to surface with 50 sx. cement. A 12-1/4" hole will be drilled from surface to approximately 1700'. This will allow for protection of all water zones and casing off of the Red Beds. A full string of 8-5/8", 24#, J-55 surface casing will be run and set 25' into the top of the Rustler Anhydrite with cement circulated to surface. The cement will be allowed to set for a minimum of eight (8) hours (minimum 500# compressive strength) and will then be tested to 1500 psi for 30 minutes before drilling resumes. After the casing is run and cemented, weld on 8-5/8" X 11" 3M casinghead housing and nipple up BOP stack (3000# Ram Preventer).

A 7-7/8" hole will be drilled out from surface casing point (1650') to +/- 4500' TVD. A full string of 5-1/2", 15.5#, J-55 production casing will be run to TD and cemented to surface (casing test to 1500 psi will be done by the completion rig).

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-34980	Pool Code 31920	Pool Name HOBBS: GRAYBURG - SAN ANDRES
Property Code 19520	Property Name NORTH HOBBS G/SA UNIT	Well Number 513
OGRID No. 157984	Operator Name ALTURA ENERGY LTD.	Elevation 3637

Surface Location

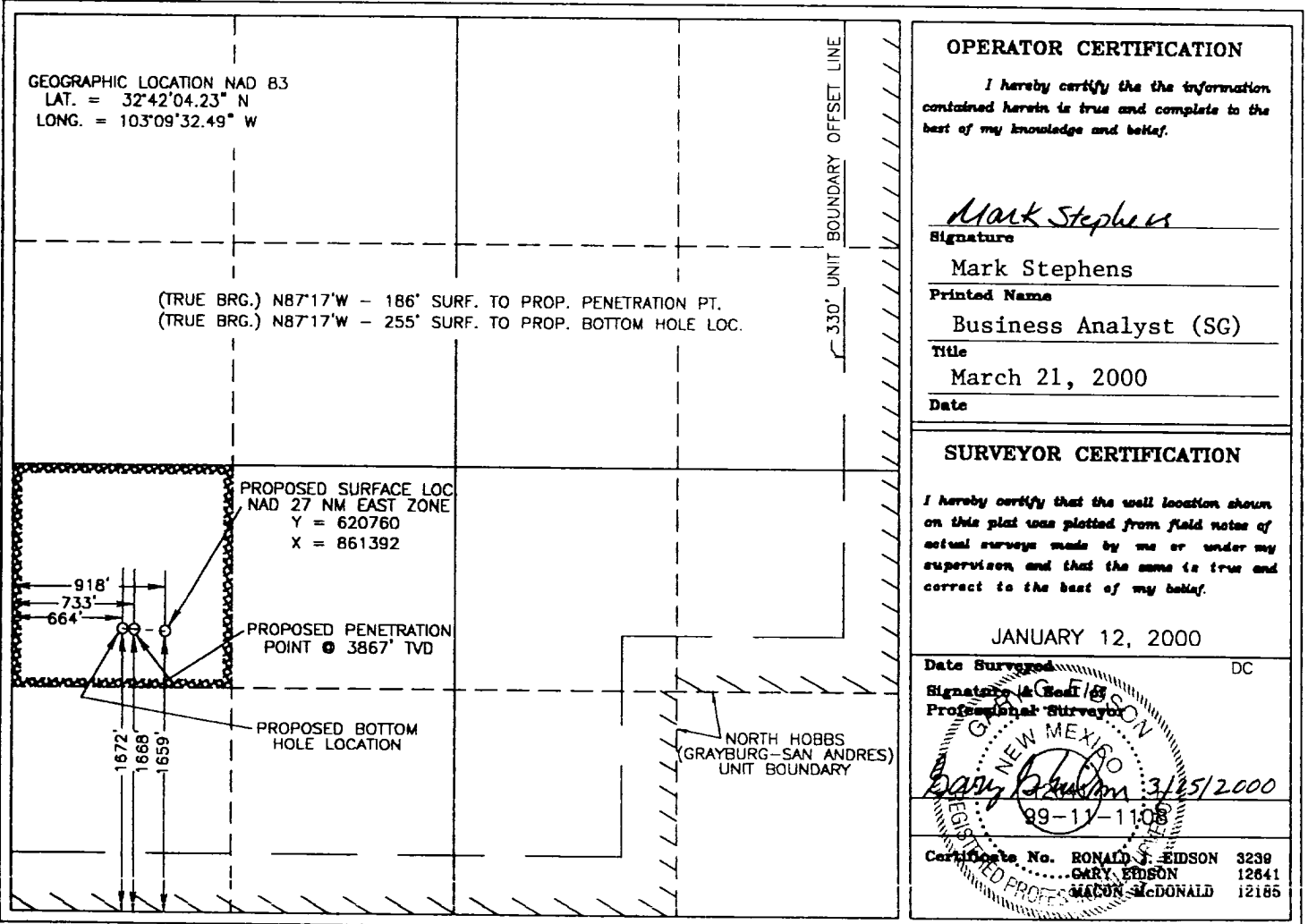
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	33	18 S	38 E		1659	SOUTH	918	WEST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	33	18 S	38 E		1672	SOUTH	664	WEST	LEA

Dedicated Acres 40	Joint or Infill I	Consolidation Code U	Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



OPERATOR CERTIFICATION

I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.

Mark Stephens
Signature

Mark Stephens
Printed Name

Business Analyst (SG)
Title

March 21, 2000
Date

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

JANUARY 12, 2000
Date Surveyed DC

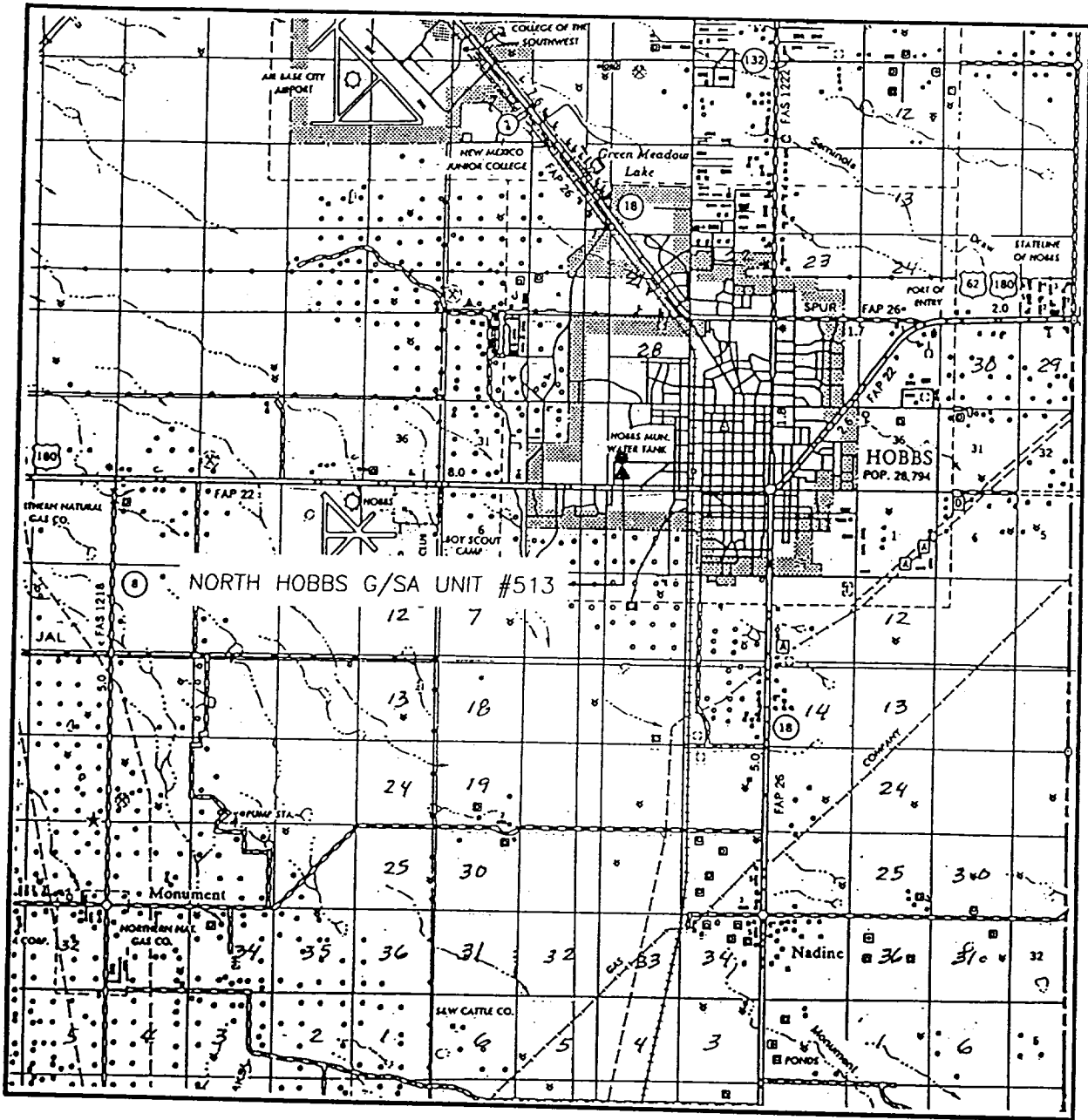
Gary Edson
Signature & Seal of Professional Surveyor

NEW MEXICO
Professional Surveyor
3/25/2000
99-11-1108

Certificate No. RONALD J. EDSON 3239
GARY EDSON 12841
MCCON MCDONALD 12185

25
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VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 33 TWP. 18-S RGE. 38-E

SURVEY N.M.P.M.

COUNTY LEA

DESCRIPTION 1659' FSL & 918' FWL

ELEVATION 3637

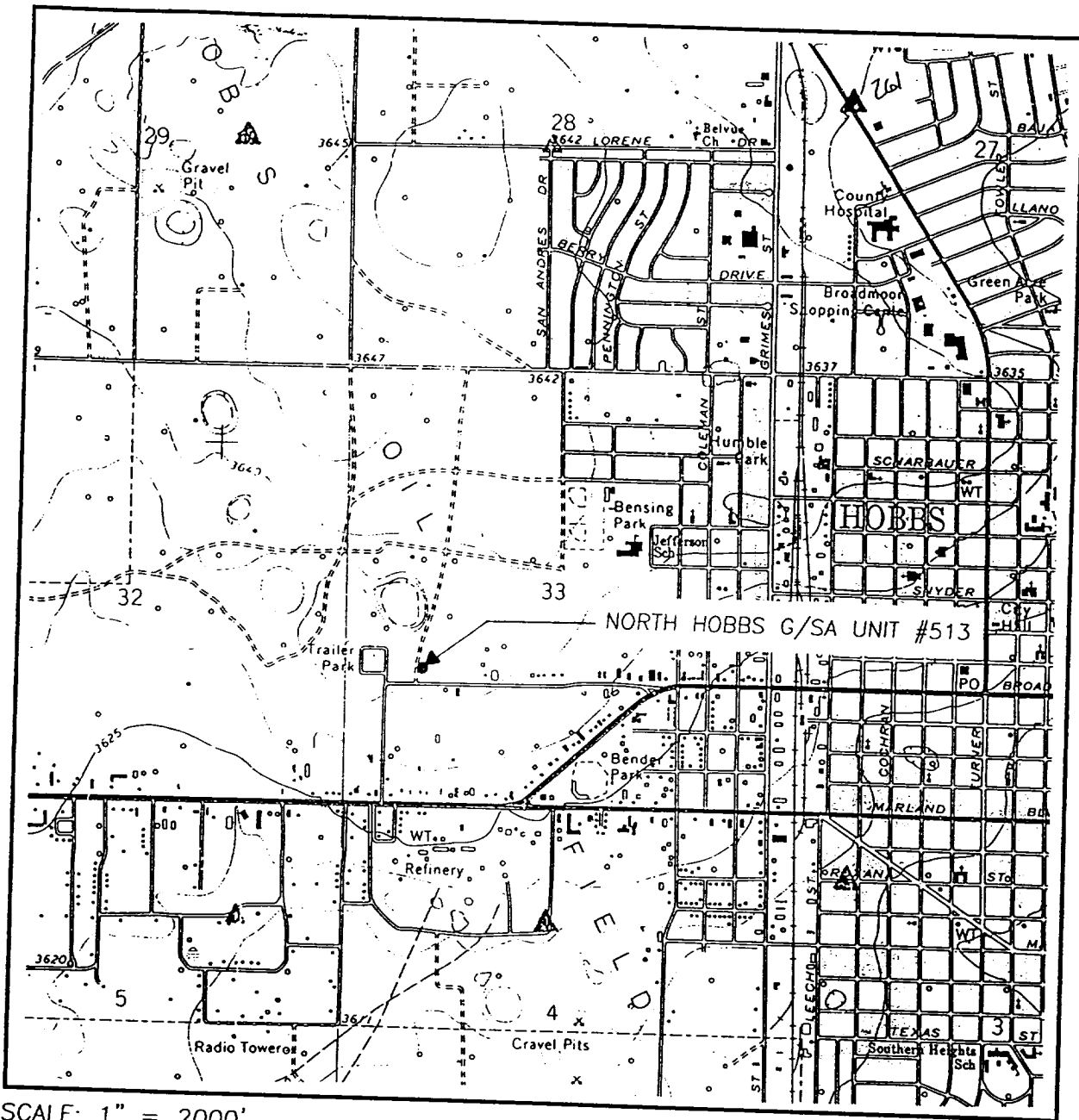
OPERATOR ALTURA ENERGY LTD.

LEASE NORTH HOBBS G/SA UNIT

JOHN WEST SURVEYING
 HOBBS, NEW MEXICO
 (505 393-3117)

1 2 3 4 5 6 7 8 9 10 11 12
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Hubs
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LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL:
HOBBS WEST - 5'

SEC. 33 TWP. 18-S RGE. 38-E

SURVEY N.M.P.M.

COUNTY LEA

DESCRIPTION 1659' FSL & 918' FWL

ELEVATION 3637

OPERATOR ALTURA ENERGY LTD.

LEASE NORTH HOBBS G/SA UNIT

U.S.G.S. TOPOGRAPHIC MAP

HOBBS WEST, N.M.

JOHN WEST SURVEYING
HOBBS, NEW MEXICO
(505 393-3117)

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Scientific Drilling Inc.

Planning Report

Company: Altura Energy Ltd.	Date: 03/08/2000	Time: 14:20:36	Page: 1
Field: North Hobbs GSA Unit	Co-ordinate(N/E) 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" #513	Section (VS) Reference: Site (0.0E, 0.0N, 272.9Azi)		
Wellpath: OH Original hole	Plan: Plan #1		

Field: North Hobbs GSA Unit

Map System: US State Plane Coordinate System 1927
Ellipsoid: Clarke - 1866
Sys Datum: Mean Sea Level

Map Zone: New Mexico, Eastern Zone
North Reference: True
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" #513

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
Tie-on Depth: ft
V.Section Direction: 272.90 deg

Vertical Section:	+N/-S	0.0 ft			
From: Site	+E/-W	0.0 ft			
Measured Depth Reference:	SITE	0.0 ft	Above System Datum:	Mean Sea Level	

Plan: Plan #1

Date Composed: 02/10/2000
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	272.89	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2500.0	0.00	272.89	2500.0	0.0	0.0	0.00	0.00	0.00	0.00	
2847.7	8.69	272.89	2846.3	1.3	-26.3	2.50	2.50	0.00	272.89	
4117.9	8.69	272.89	4102.0	11.0	-218.0	0.00	0.00	0.00	0.00	Midpoint Pay
4355.6	8.69	272.89	4337.0	12.8	-253.9	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	272.89	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
100.0	0.00	272.89	100.0	0.0	0.0	0.0	0.00	0.00	0.00	272.89
200.0	0.00	272.89	200.0	0.0	0.0	0.0	0.00	0.00	0.00	272.89
300.0	0.00	272.89	300.0	0.0	0.0	0.0	0.00	0.00	0.00	272.89
400.0	0.00	272.89	400.0	0.0	0.0	0.0	0.00	0.00	0.00	272.89
500.0	0.00	272.89	500.0	0.0	0.0	0.0	0.00	0.00	0.00	272.89
600.0	0.00	272.89	600.0	0.0	0.0	0.0	0.00	0.00	0.00	272.89
700.0	0.00	272.89	700.0	0.0	0.0	0.0	0.00	0.00	0.00	272.89
800.0	0.00	272.89	800.0	0.0	0.0	0.0	0.00	0.00	0.00	272.89
900.0	0.00	272.89	900.0	0.0	0.0	0.0	0.00	0.00	0.00	272.89
1000.0	0.00	272.89	1000.0	0.0	0.0	0.0	0.00	0.00	0.00	272.89
1100.0	0.00	272.89	1100.0	0.0	0.0	0.0	0.00	0.00	0.00	272.89
1200.0	0.00	272.89	1200.0	0.0	0.0	0.0	0.00	0.00	0.00	272.89
1300.0	0.00	272.89	1300.0	0.0	0.0	0.0	0.00	0.00	0.00	272.89
1400.0	0.00	272.89	1400.0	0.0	0.0	0.0	0.00	0.00	0.00	272.89
1500.0	0.00	272.89	1500.0	0.0	0.0	0.0	0.00	0.00	0.00	272.89
1600.0	0.00	272.89	1600.0	0.0	0.0	0.0	0.00	0.00	0.00	272.89
1700.0	0.00	272.89	1700.0	0.0	0.0	0.0	0.00	0.00	0.00	272.89
1800.0	0.00	272.89	1800.0	0.0	0.0	0.0	0.00	0.00	0.00	272.89
1900.0	0.00	272.89	1900.0	0.0	0.0	0.0	0.00	0.00	0.00	272.89
2000.0	0.00	272.89	2000.0	0.0	0.0	0.0	0.00	0.00	0.00	272.89
2100.0	0.00	272.89	2100.0	0.0	0.0	0.0	0.00	0.00	0.00	272.89

NOV 23 24 25 26 27
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Scientific Drilling Inc.

Planning Report

Company: Altura Energy Ltd.	Date: 03/08/2000	Time: 14:20:36	Page: 2
Field: North Hobbs GSA Unit	Co-ordinate(N/E) 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" #513	Section (VS) Reference: Site (0.0E,0.0N,272.9Azi)		
Wellpath: OH Original hole	Plan: Plan #1		

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
2200.0	0.00	272.89	2200.0	0.0	0.0	0.0	0.00	0.00	0.00	272.89
2300.0	0.00	272.89	2300.0	0.0	0.0	0.0	0.00	0.00	0.00	272.89
2400.0	0.00	272.89	2400.0	0.0	0.0	0.0	0.00	0.00	0.00	272.89
2500.0	0.00	272.89	2500.0	0.0	0.0	0.0	0.00	0.00	0.00	272.89

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
2600.0	2.50	272.89	2600.0	0.1	-2.2	2.2	2.50	2.50	0.00	0.00
2700.0	5.00	272.89	2699.7	0.4	-8.7	8.7	2.50	2.50	0.00	0.00
2800.0	7.50	272.89	2799.1	1.0	-19.6	19.6	2.50	2.50	0.00	0.00
2847.7	8.69	272.89	2846.3	1.3	-26.3	26.3	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
2900.0	8.69	272.89	2898.1	1.7	-34.2	34.2	0.00	0.00	0.00	0.00
3000.0	8.69	272.89	2996.9	2.5	-49.3	49.3	0.00	0.00	0.00	0.00
3100.0	8.69	272.89	3095.8	3.2	-64.4	64.5	0.00	0.00	0.00	0.00
3200.0	8.69	272.89	3194.6	4.0	-79.5	79.6	0.00	0.00	0.00	0.00
3300.0	8.69	272.89	3293.5	4.8	-94.6	94.7	0.00	0.00	0.00	0.00
3400.0	8.69	272.89	3392.3	5.5	-109.6	109.8	0.00	0.00	0.00	0.00
3500.0	8.69	272.89	3491.2	6.3	-124.7	124.9	0.00	0.00	0.00	0.00
3600.0	8.69	272.89	3590.0	7.1	-139.8	140.0	0.00	0.00	0.00	0.00
3700.0	8.69	272.89	3688.9	7.8	-154.9	155.1	0.00	0.00	0.00	0.00
3800.0	8.69	272.89	3787.7	8.6	-170.0	170.2	0.00	0.00	0.00	0.00
3900.0	8.69	272.89	3886.6	9.3	-185.1	185.3	0.00	0.00	0.00	0.00
4000.0	8.69	272.89	3985.4	10.1	-200.2	200.5	0.00	0.00	0.00	0.00
4100.0	8.69	272.89	4084.3	10.9	-215.3	215.6	0.00	0.00	0.00	0.00
4117.9	8.69	272.89	4102.0	11.0	-218.0	218.3	0.00	0.00	0.00	0.00

Section 4 : Start Hold

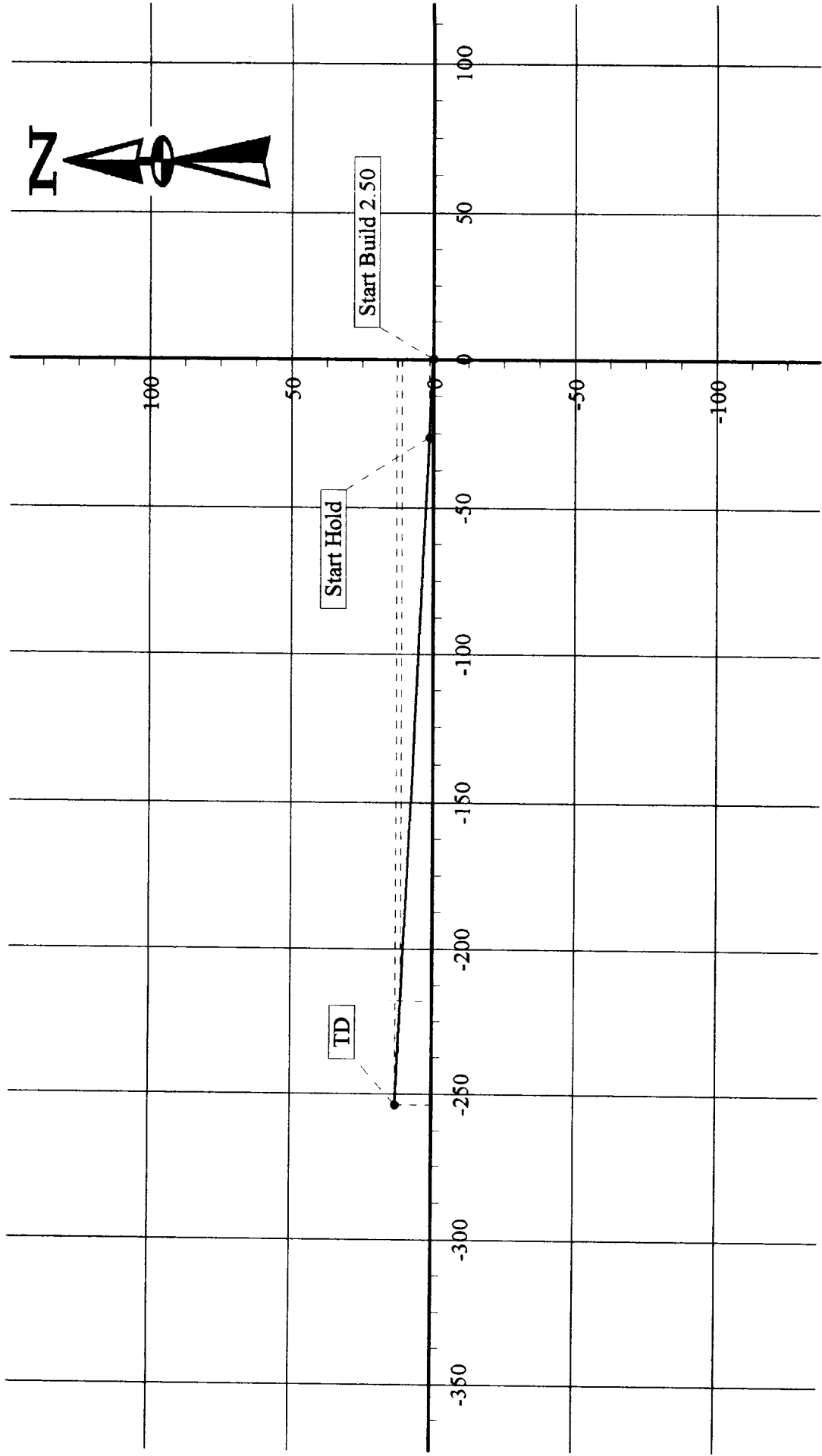
MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg
4200.0	8.69	272.89	4183.1	11.6	-230.4	230.7	0.00	0.00	0.00	0.00
4300.0	8.69	272.89	4282.0	12.4	-245.5	245.8	0.00	0.00	0.00	0.00
4355.6	8.69	272.89	4337.0	12.8	-253.9	254.2	0.00	0.00	0.00	0.00



**Scientific
Drilling**

Field: North Hobbs GSA Unit
Site: Lea County New Mexico
Well: NHGSAU "33" #513
Wellpath: OH Original hole
Plan: Plan #1

Atura
ENERGY LTD.



West(-)/East(+) [50ft/in]

Vertical Axis: Depth (ft)

ELF 7/24/00
ABOVE DATE DOES NOT
INDICATE WHEN
CONFIDENTIAL LOGS
WILL BE RELEASED

Received
Hobbs
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