OIL CONS. DIV. FORM APPROVED Form 3160-3 OMB No. 1004-0137 Expires March 31, 2007 (April 2004) DIST. 3 UNITED STATES Lease Serial No. DEPARTMENT OF THE INTERIOR NOG 0207 1608 BUREAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO DRILL OR REENTER 6 If Indian, Allotee or Tribe Name NAVAJO ALLOTMENT RECEIVE 7. If Unit or CA Agreement, Name and No. DRILL REENTER la. Type of work: 070 FARMINGTON NA 8. Lease Name and Well No. lb. Type of Well: ✓ Oil Well Gas Well ✓ Single Zone Multiple Zone **TURTLE MOUNTAIN 35 #1** 9. API Well No. Name of Operator ELM RIDGE EXPLORATION COMPANY, LLC 30-045- 33935 3a. Address P.O. BOX 156 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory **BLOOMFIELD, NM 87413** (505) 632-3476 LYBROOK GALLUP 11. Sec., T. R. M. or Blk. and Survey or Area 4. Location of Well (Report location clearly and in accordance with any State requirements.*) 1980' FNL & 330' FEL At surface 35-24N-8W NMPM At proposed prod. zone SAME 13. State 12. County or Parish Distance in miles and direction from nearest town or post office* **5 AIR MILES E OF NAGEEZI** SAN JUAN NM 17. Spacing Unit dedicated to this well Distance from proposed* 16. No. of acres in lease 15. location to nearest property or lease line, ft. SEANEA 40 (Also to nearest drig. unit line, if any) 330' 160 20. BLM/BIA Bond No. on file 18. Distance from proposed location* 19. Proposed Depth to nearest well, drilling, completed, **BIA NATION WIDE 886441C** N/A 5,700' applied for, on this lease, ft. 22. Approximate date work will start 23. Estimated duration Elevations (Show whether DF, KDB, RT, GL, etc.) 3 WEEKS 6,853' GL 11/15/2006 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

- 1. Well plat certified by a registered surveyor.
- 2. A Drilling Plan.
- 3. A Surface Use Plan (if the location is on National Forest System Lands, the
- 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification

SUPO shall be filed w	tili the appropriate Potest Service Offic	6. Such other site specific information authorized officer.	rmation and/or plans as may be required by the
25. Signature	Space	Name (Printed/Typed) BRIAN WOOD	Date 09/12/2006
Title CONSUL	TANT	PHONE: (505) 466-8120 FAX	: (505) 466-9682
Approved by (Signature)	um layalo	Name (Printed/Typed)	Date 4 07
Title	1 1004 11	Office	
	not warrant or certify that the applica	nt holds legal or equitable title to those rights in the subject	ect lease which would entitle the applicant to

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its infisdiction.

*(Instructions on page 2)



NMOCD

Q 1/8/07

DISTRICT I

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised Febuary 21, 1994

DISTRICT II

811 South First, Artesia, N.M. 88210

1000 Rio Brazos Rd., Aztec, N.M. 87410

P.O. Box 1980, Hobbs, N.M. 88241-1980

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

Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

DISTRICT III

DISTRICT IV 2040 South Pacheco, Santa Fe, NM 87504-2088

2006 SEP 14 PM 1 01

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT RCVD JAN5'07 1 API_Number NTU. ATL CONS LYBROOKO GALLUPTON NIM 42289 30-045-⁵Property Name 36241 **TURTLE MOUNTAIN 35** OGRID No. ⁸Operator Name ⁹ Elevation 6853 **ELM RIDGE EXPLORATION** 149052 ¹⁰ Surface Location

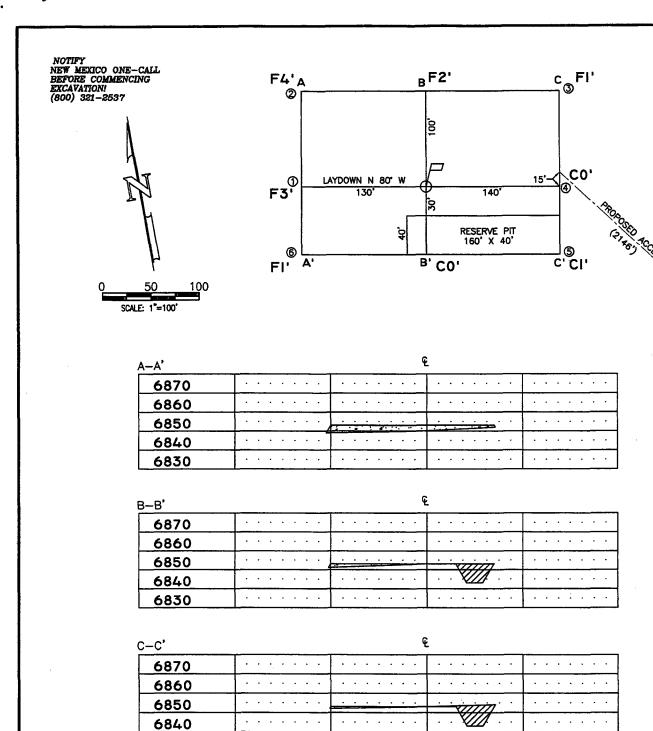
Feet from the North/South line UL or lot no. Feet from the East/West line County Section Township Range Lot Idn 330 1980 **EAST** SAN JUAN 35 24 N 8 W NORTH Н 11 Bottom Hole Location If Different From Surface UL or lot no. Lot Idn Feet from the North/South line East/West line Section Township Range County 12 Dedicated Acres 13 Joint or Infill 14 Consolidation Code 15 Order No.

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

16 S 89°58'45" E	2643.17'	N 89°59'22" E	2650.57'	17 ODEDATOD CEDTIFICATION
		,	2000.07	17 OPERATOR CERTIFICATION
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				18 SURVEYOR CERTIFICATION
 	,		-	I hereby certify that the well location shown on this plat
<u> 2</u>			76	was plotted from field notes of actual surveys made by me
. 71:17:			4	or under my supervision, and that the same is true and correct to the best of my belief.
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	 	ļ		Date of Survey Signature and Seal of Professional Surveyor.
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S 89°59'18" W	2649.99'	S 89°59'10" W	2652.50'	Certificate Number 6846
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Office	State of New Me			Form C-103	3
District I	Energy, Minerals and Natu	ral Resources	WELL ARINO	May 27, 2004	1
1625 N. French Dr., Hobbs, NM 88240 District II			WELL API NO. 30-045-	33935	
1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION		5. Indicate Type of		1
<u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410	1220 South St. Fran		STATE [FEE	
District IV	Santa Fe, NM 8	7505	6. State Oil & Gas	Lease No.	
1220 S. St. Francis Dr., Santa Fe, NM 87505			NOG 0207 1608		
	CES AND REPORTS ON WELLS		7. Lease Name or	Unit Agreement Name	
(DO NOT USE THIS FORM FOR PROPOS					
DIFFERENT RESERVOIR. USE "APPLIC PROPOSALS.)	ATION FOR PERMIT" (FORM C-101) FC	K SUCH	TURTLE MOUN		-
	Gas Well Other		8. Well Number	#1	
2. Name of Operator			9. OGRID Number	er 149052	
ELM RIDGE EXPLORATION CO	MPANY, LLC		10 Po-1	77:11	-
3. Address of Operator P. O. BOX 156, BLOOMFIELD, N	M 87413		10. Pool name or LYBROOK GALI		
4. Well Location	VI 67415		L I BROOK GALL	201	-
4. Well Location Unit Letter: H	1090) ENIT - 8- 220) E	T:T			
	1980' FNL & 330' F		VI	GI O	
Section 35	Township 24 N 11. Elevation (Show whether DR,	Range 8		SJ County	
	6,853' GL	KKD, KI, GK, etc.,			
Pit or Below-grade Tank Application Con			CHILLIAN		ľ
Pit type: DRILLING Depth to Groundwa	ter: <u>>20'</u> Distance from nearest fresh wat	er well: <u>>700'</u> Distance	e from nearest surface wa	iter: <u>>100'</u>	
Pit Liner Thickness: 12 mil	Below-Grade Tank: Volume	bbls; Cons	struction Material		
	k Appropriate Box to Indicat	e Nature of Not	ice Report or Otl	ner Data	•
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APPROVED BY:
Conditions of Approval (if any):



CROSS SECTIONS
HORIZONTAL: 1"=100'
VERTICAL: 1"=10'

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LEASE: TURTLE MOUNTAIN 35 #1							
FOOTAGE: 1980' FNL, 330' FEL							
SEC. 35 TWN. 24 N RNG. 8 W N.M.P.M							
LATITUDE, 34 070E000 LONGITUDE, 107 4477E00							

6830

.

LATITUDE: <u>36.272590°</u> LONGITUDE: <u>107.643350°</u>

ELEVATION: 6853

ELM RIDGE EXPLORATION DALLAS, TEXAS

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SURVEYED: 4/28/06	REV. DATE:	APP. BY R.P.
DRAWN BY: A.D.	DATE DRAWN: 5/18/06	FILE NAME: 6501C02



P.O. BOX 3651 FARMINGTON, NM 87499 OFFICE: (505) 334-0408 Elm Ridge Exploration Company, LLC Turtle Mountain 35 #1 1980' FSL & 330' FEL Sec. 35, T. 24 N., R. 8 W. San Juan County, New Mexico

Drilling Program

1. ESTIMATED FORMATION TOPS

<u>Formation</u>	<u>GL Depth</u>	KB Depth	<u>Elevation</u>
Nacimiento	0'	12'	+6,853'
Ojo Alamo	1,053'	1,065'	+5,800'
Pictured Cliffs	1,853'	1,865'	+5,000'
Cliff House	3,353'	3,365'	+3,500'
Point Lookout	4,153'	4,165'	+2,700'
Mancos Shale	4,353'	4,365'	+2,500'
Gallup Sandstone	5,253'	5,265'	+1,600'
Total Depth	5,700'	5,712'	+1,153'

2. NOTABLE ZONES

Oil &/or Gas Zones	Water Zones	<u>Coal Zone</u>
Fruitland	Nacimiento	Fruitland
Pictured Cliffs	Fruitland	
Gallup	Pictured Cliffs	

Water zones will be protected with casing, cement, and weighted mud. Fresh water encountered during drilling will be recorded by depth, cased, and cemented. Oil and gas shows will be tested for commercial potential based on the well site geologist's recommendations.

3. PRESSURE CONTROL

The drilling contract has not yet been awarded, thus the exact BOP model to be used is not yet known. A typical 2,000 psi model is on PAGE 3.



Elm Ridge Exploration Company, LLC Turtle Mountain 35 #1 1980' FSL & 330' FEL Sec. 35, T. 24 N., R. 8 W. San Juan County, New Mexico

A \geq 2,000 psi BOP and choke manifold system will be installed and tested to 2,000 psi before drilling surface casing plug. It will remain in use until the well is completed or abandoned. A safety valve and sub with a full opening valve to fit the drill pipe and collars will be available on the rig floor in the open position at all times for use when kelly is not in use.

All BOP mechanical and pressure tests will be recorded on the driller's log. BOPs will be inspected and opened and closed at least daily to assure good mechanical working order. Inspections will be recorded on the daily drilling report. Pressure tests will be conducted before drilling out from under all casing strings which are set and cemented in place.

4. CASING & CEMENT

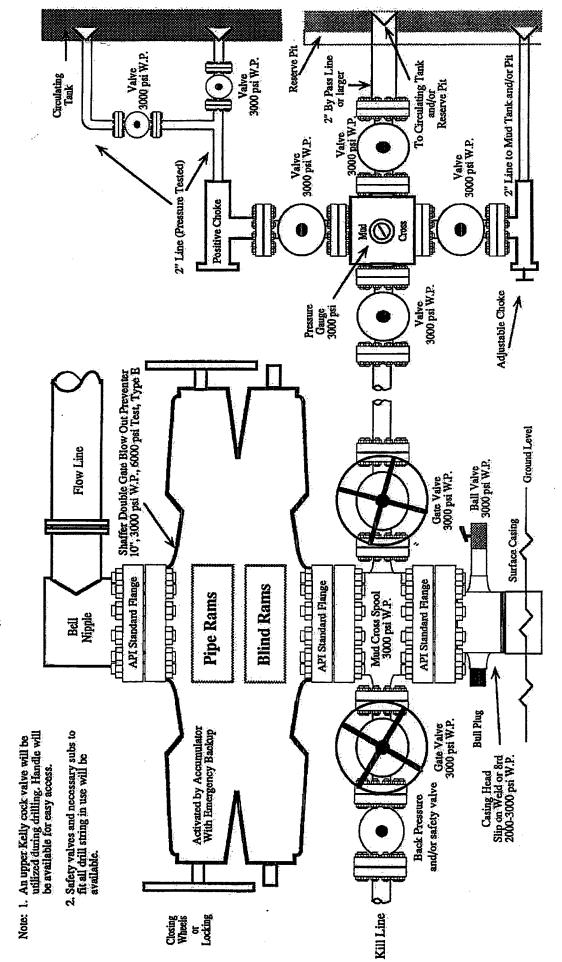
<u>Hole Size</u>	<u>O. D.</u>	Weight (lb/f	<u>t) Grade</u>	<u>Type</u>	<u>Age</u>	<u>GL Setting Depth</u>
12-1/4"	8-5/8"	24	J-55 or K-55	ST&C	New	350'
7-7/8"	5-1/2"	10.5	J-55	LT&C	New	5,700'

Surface casing will be cemented to the surface with ≈ 290 cubic feet (≈ 245 sacks) Class B with 1/4 pound per sack cellophane + 2% CaCl₂. Yield = 1.18 cubic feet per sack. Weight = 15.2 pounds per gallon. Volume = 100% excess. Centralizers will be installed on the middle of the shoe joint and every other centralizer thereafter.

Production casing will be cemented to the surface in two stages with a stage tool set @ $\approx 3,700$ '. Centralizers will be installed on the middle of the shoe joint and on every joint thereafter (total ≈ 25 centralizers). Thread lock the guide shoe, bottom of float collar, and bottom of stage tool only. Use API casing dope.



2,000 PSI BOP SYSTEM



Note: This equipment is designed to meet requirements for a 2-M rating standard per 43 CFR part 3160 (amended). Proper operation and testing of equipment will be carried out per standard. 2,000 psi equipment can be substituted in the drawing to meet minimum requirements per standard.

Elm Ridge Exploration Company, LLC Turtle Mountain 35 #1 1980' FSL & 330' FEL Sec. 35, T. 24 N., R. 8 W. San Juan County, New Mexico

First stage volume will be ≈ 695 cubic feet consisting of ≈ 150 sacks of Halliburton light with 65/35 poz mix + 1/4 pound per sack cellophane + 2% CaCl₂ (yield = 1.87 cubic feet per sack, weight = 12.7 pounds per gallon) followed by ≈ 352 sacks Class B with 2% CaCl₂ (yield = 1.18 cubic feet per sack, weight = 15.2 pounds per gallon). Volume = >100% excess, but caliper logs will be used to determine actual volume needed.

Second stage volume will be $\approx 1,285$ cubic feet consisting of ≈ 656 sacks of Halliburton light with 65/35 poz mix + 1/4 pound per sack cellophane + 2% CaCl₂ (yield = 1.87 cubic feet per sack, weight = 12.7 pounds per gallon) followed by ≈ 50 sacks of Class B with 2% CaCl₂ (yield = 1.18 cubic feet per sack, weight = 15.2 pounds per gallon). Volume = >100% excess, but caliper logs will be used to determine actual volume needed.

5. MUD PROGRAM

<u>Depth</u>	<u>Type</u>	ppg	<u>Viscosity</u>	Fluid Loss	Нq
0' - 350'	Fresh water gel chem	9.0	50	NC	9
350' - TD	Fresh water gel chem	9.0	38-50	6.0	9

Enough material to maintain mud properties, control lost circulation, and contain a blowout will be at the well site while drilling. Mud will be checked hourly by rig personnel. Material to soak up possible oil or fuel spills will be on site.

6. CORES, TESTS, & LOGS

No cores or drill stem tests are planned. DIL/GR logs will be run from TD to surface. CNL/FDC logs may be run over selected segments. Samples will be collected every $\approx 10^{\circ}$ through the Gallup. Samples will be collected every $\approx 30^{\circ}$ elsewhere.

