

Form 3160-3
(April 2004)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No. 1004-0137
Expires March 31, 2007

5. Lease Serial No.
NOG 0207 1609

6. If Indian, Allottee or Tribe Name
NAVAJO ALLOTMENT

7. If Unit or CA Agreement, Name and No.
N/A

8. Lease Name and Well No.
TURTLE MOUNTAIN 35 #2

9. API Well No.
30-045- 33718

10. Field and Pool, or Exploratory
LYBROOK GALLUP

11. Sec., T. R. M. or Blk. and Survey or Area
K 35-24N-8W NMPM

1a. Type of work: DRILL REENTER
1b. Type of Well: Oil Well Gas Well Other Single Zone Multiple Zone

2. Name of Operator
ELM RIDGE EXPLORATION COMPANY, LLC

3a. Address P. O. BOX 156
BLOOMFIELD, NM 87413
3b. Phone No. (include area code)
(505) 632-3476

4. Location of Well (Report location clearly and in accordance with any State requirements.)*
At surface 1950' FSL & 1950' FWL
At proposed prod. zone SAME

14. Distance in miles and direction from nearest town or post office*
5 AIR MILES E OF NAGEEZI

12. County or Parish
SAN JUAN
13. State
NM

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 690'

17. Spacing Unit dedicated to this well
NE4SW4 40

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. N/A

20. BLM/BIA Bond No. on file
BIA NATION WIDE 886441C

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
6,844' GL
22. Approximate date work will start*
05/31/2006

23. Estimated duration
3 WEEKS

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 SUPO shall be filed with the appropriate Forest Service Office).
- 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- 5. Operator certification
- 6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature *Brian Wood* Name (Printed/Typed) BRIAN WOOD Date 04/20/2006

Title CONSULTANT PHONE: (505) 466-8120 FAX: (505) 466-9682

Approved by (Signature) *Jim Lovato* Name (Printed/Typed) Date 1/4/07

Title Acting AFM Minerals Office

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. 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 jurisdiction.

*(Instructions on page 2)

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

NMOC

1/8/07

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

DISTRICT II
811 South First, Artesia, N.M. 88210

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

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

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

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

2006 APR 24 AM 9 02 AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

RCVD JAN 5 2007

¹ API Number 30-045-33718		² Pool Code 42289	³ Pool Name LYBROOK GALLUP
⁴ Property Code 30241	⁵ Property Name TURTLE MOUNTAIN 35		⁶ Well Number 2
⁷ GRID No. 149052	⁸ Operator Name ELM RIDGE EXPLORATION		⁹ Elevation 6844

¹⁰ Surface Location


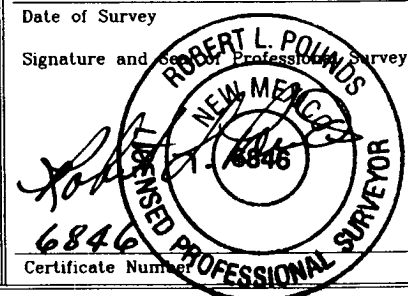
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	35	24 N	8 W		1950	SOUTH	1950	WEST	SAN JUAN

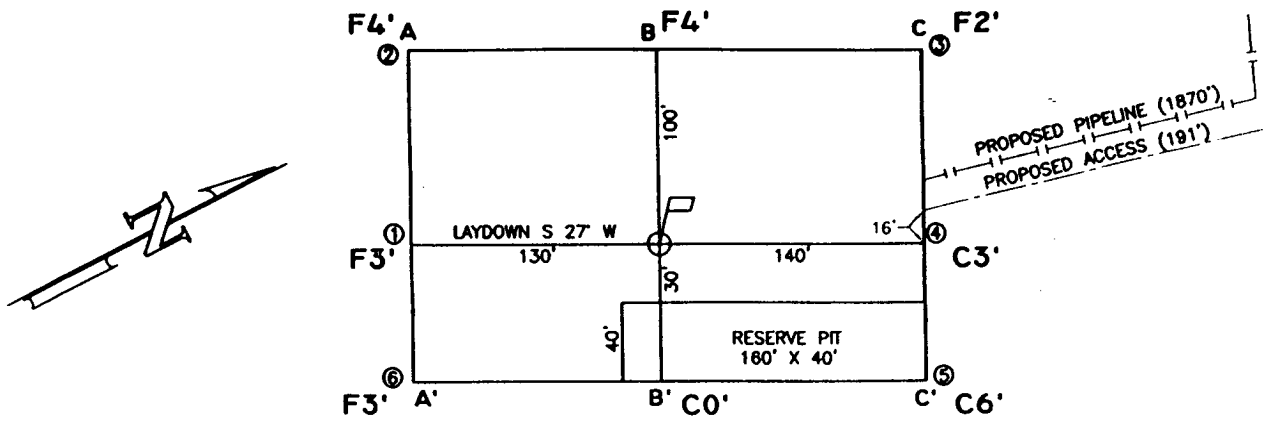
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

¹² Dedicated Acres 40	¹³ Joint or Infill .	¹⁴ Consolidation Code .	¹⁵ 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

¹⁶ S 89°58'45" E 2638.70' N 0°22'53" W 2641.14' 1950' N 0°25'44" W S 89°59'18" W	2643.17'	N 89°59'22" E 2650.57'	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief  Signature BRIAN WOOD Printed Name CONSULTANT Title APR. 20, 2006 Date
	SECTION 35		
	1950'	LAT. 36.268901° LONG. 107.653665° NAD 83	
	1950'	2649.99'	
¹⁸ 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. 2/10/06 Date of Survey Signature and Seal of Professional Surveyor:  6846 Certificate Number			



ELEVATION A-A'

6860				
6850				
6840	[Profile sketch]			
6830				
6820				

B-B'

6860				
6850				
6840	[Profile sketch]			
6830				
6820				

C-C'

6860				
6850				
6840	[Profile sketch]			
6830				
6820				

LEASE: TURTLE MOUNTAIN 35 #2

FOOTAGE: 1950' FSL, 1950' FWL

SEC. 35 TWN. 24 N RNG. 8 W N.M.P.M.

LATITUDE: 36.268901° LONGITUDE: 107.653665°

ELEVATION: 6844

ELM RIDGE EXPLORATION		
DALLAS, TEXAS		
SURVEYED: 2/10/06	REV. DATE:	APP. BY R.P.
DRAWN BY: A.D.	DATE DRAWN: 3/03/06	FILE NAME: 6502C01
		P.O. BOX 3651 FARMINGTON, NM 87499 OFFICE: (505) 334-0408

Elm Ridge Exploration Company, LLC
 Turtle Mountain 35 #2
 1950' FSL & 1950' FWL
 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>	<u>KB Depth</u>	<u>Elevation</u>
Nacimiento	000'	12'	+6,844'
Ojo Alamo	1,019'	1,031'	+5,825'
Kirtland-Fruitland	1,269'	1,281'	+5,575'
Pictured Cliffs	1,784'	1,796'	+5,060'
Lewis Shale	1,869'	1,881'	+4,975'
Cliff House	3,244'	3,256'	+3,600'
Menefee Shale	3,319'	3,331'	+3,525'
Point Lookout	4,044'	4,056'	+2,800'
Mancos Shale	4,344'	4,356'	+2,500'
Gallup Sandstone	5,144'	5,156'	+1,700'
Total Depth	5,700'	5,712'	+1,144'

2. NOTABLE ZONES

Oil &/or Gas Zones

Fruitland
 Pictured Cliffs
 Gallup

Water Zones

Nacimiento
 Fruitland
 Pictured Cliffs

Coal Zone

Fruitland

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.

Elm Ridge Exploration Company, LLC
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Sec. 35, T. 24 N., R. 8 W.
San Juan County, New Mexico

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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.

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>	<u>Weight (lb/ft)</u>	<u>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	S T & C	New	350'
7-7/8"	5-1/2"	10.5 ₁₅	J-55	L T & C	New	5,700'

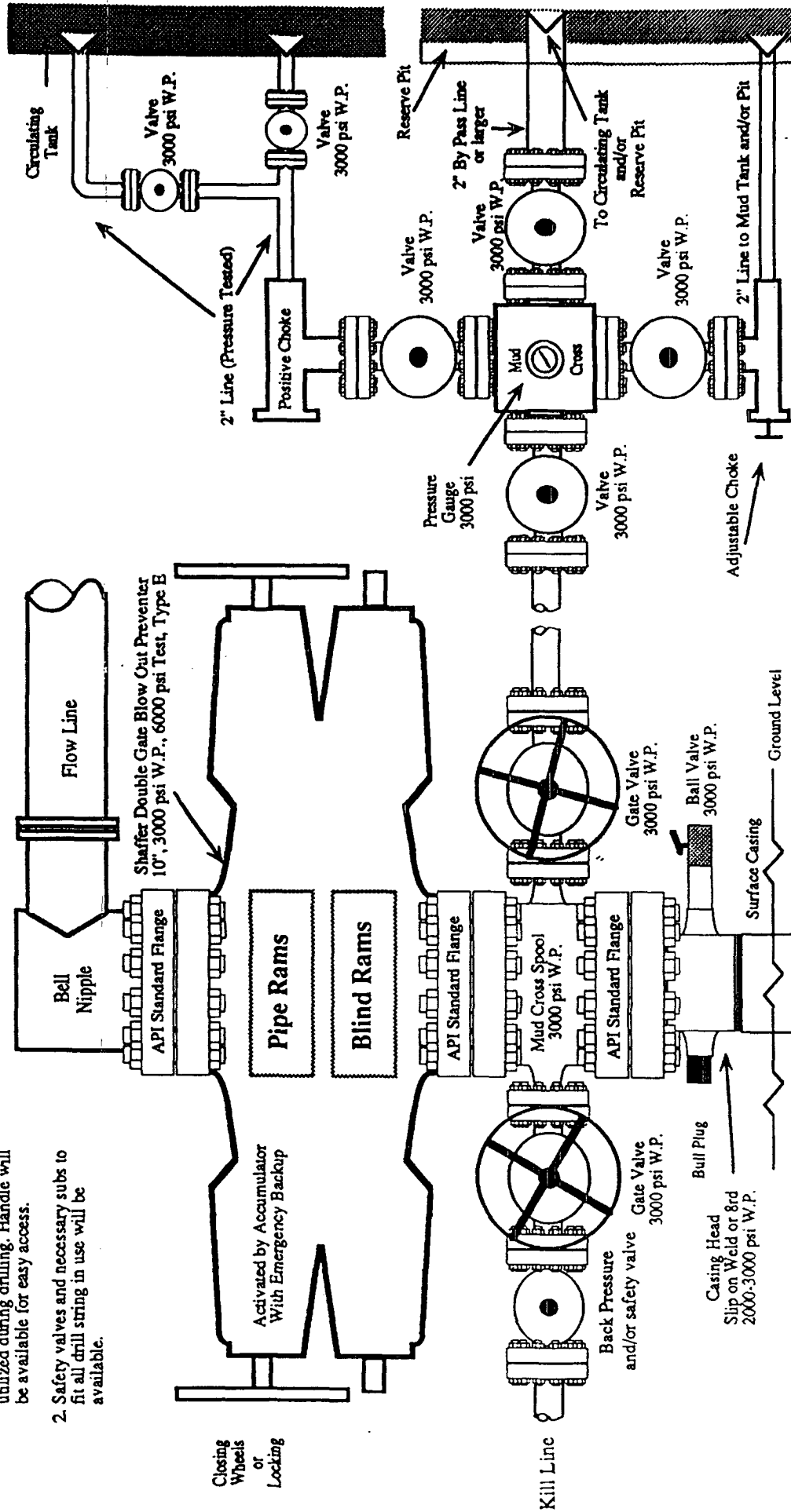
Surface casing will be cemented to the surface with ≈ 290 cubic feet (≈ 245 sacks) Class B with 1/4 pound per sack cellophane + 2% CaCl_2 . Yield = 1.18 cubic feet per sack. Weight = 15.2 pounds per gallon. Volume = 100% excess. Centralizers will be installed on the middle of the shoe joint and every other centralizer thereafter.

Production casing will be cemented to the surface in 2 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: 1. An upper Kelly cock valve will be utilized during drilling. Handle will be available for easy access.

2. Safety valves and necessary subs to fit all drill string in use will be available.



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 #2
1950' FSL & 1950' FWL
Sec. 35, T. 24 N., R. 8 W.
San Juan County, New Mexico

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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% CaCl_2 (yield = 1.87 cubic feet per sack, weight = 12.7 pounds per gallon) followed by ≈ 352 sacks Class B with 2% CaCl_2 (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% CaCl_2 (yield = 1.87 cubic feet per sack, weight = 12.7 pounds per gallon) followed by ≈ 50 sacks of Class B with 2% CaCl_2 (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>	<u>ppg</u>	<u>Viscosity</u>	<u>Fluid Loss</u>	<u>pH</u>
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 $\approx 10'$ through the Gallup. Samples will be collected every $\approx 30'$ elsewhere.