Form 3160 -3 (April 2004)

UNITED STATES
DEPARTMENT OF THE INTERIOR OPP 24 PM C

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

5	Lease Serial No. NOG 0207 1609
12	NOG 0207 1609

BUREAU OF LAND	MANAGEMENT	16 HPK 24	MM 3	(\ \ NOG 0207 1609	
APPLICATION FOR PERMIT			VED	6. If Indian, Allotee or NAVAJO ALLO	
la. Type of work:	EENTER	070 FARMIE	IGTON	If Unit or CA Agreeme	ent, Name and No.
lb. Type of Well: ✓Oil Well Gas Well Other	Sin	gle ZoneMultip	ole Zone	8. Lease Name and Wel TURTLE MOUN	
2. Name of Operator ELM RIDGE EXPLORATION C	COMPANY, LLC			9. API Well No. 30-045- 337	18
3a. Address P. O. BOX 156 BLOOMFIELD, NM 87413	1	(include area code) 32-3476		10. Field and Pool, or Exp LYBROOK GAL	,
4. Location of Well (Report location clearly and in accordance At surface 1950' FSL & 1950' FWL	with any State requireme	nts.*)		11. Sec., T. R. M. or Blk.a	-
At proposed prod. zone SAME				33-24N-6W MWIF	IVI
14. Distance in miles and direction from nearest town or post office 5 AIR MILES E OF NAGEEZI	œ*			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'	16. No. of a	cres in lease	17. Spacin	g Unit dedicated to this well	
18. Distance from proposed location*	19. Proposed	Denth		BIA Bond No. on file	
to nearest well, drilling, completed, applied for, on this lease, ft.	5,700'	. Dopui		IATION WIDE 886441	c
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6,844' GL	22. Approxir	nate date work will sta 05/31/2006	rt*	23. Estimated duration 3 WEEKS	
	24. Attac	hments			
The following, completed in accordance with the requirements of	Onshore Oil and Gas	Order No.1, shall be a	ttached to th	is form:	
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest S SUPO shall be filed with the appropriate Forest Service Office 	System Lands, the	Item 20 above). 5. Operator certific	cation specific infe	ormation and/or plans as ma	·
25. Signature 12+	Name	(Printed/Typed)		Da	ate
1 30000		BRIAN WOOD			°04/20/2006
Title	PHON	E: (505) 466-8120	FA	K: (505) 466-9682	
Approved by (Signature)	Name	(Printed/Typed)		D	ate S7
Title Athre AFM Miner	Office				
Application approval does not warrant or certify that the applica conduct operations thereon. Conditions of approval, if any, are attached.	int holds legal or equi	table title to those righ	nts in the sub	ject lease which would enti	tle the applicant to
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make States any false, fictitious or fraudulent statements or representat	e it a crime for any poions as to any matter w	erson knowingly and vithin its jurisdiction.	willfully to n	nake to any department or a	gency of the United

*(Instructions on page 2)



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

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

S 89°59'18" W

2649.991

S 89°59'10" W

2652.50

Certificate Nur

OIL CONSERVATION DIVISION

P.O. Box 2088

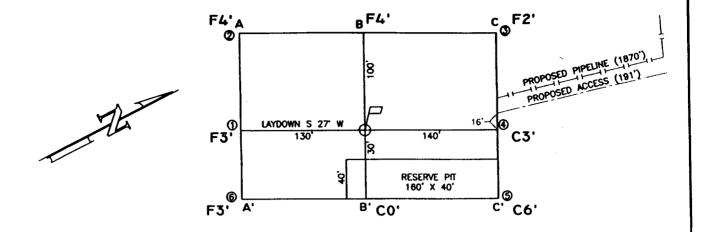
Instructions on back Submit to Appropriate District Office State Lease - 4 Copies

Fee Lease - 3 Copies

Santa Fe. NM 87504-2088 DISTRICT IV 2006 APR 24 AM 9 02 - AMENDED REPORT 2040 South Pacheco, Santa Fe, NM 87504-2088 RCVD JAH5'07 WELL LOCATION AND ACREAGE DEDICATION PLAT LYBROOK GALLUP Foot Name (¹ API Number 33718 42289 OIL CONS. 30-045-Well Number Property Code ⁵Property Name 3624 **TURTLE MOUNTAIN 35** 2 OGRID No. ^e Elevation Operator Name 6844 **ELM RIDGE EXPLORATION** 149052 ¹⁰ Surface Location UL or lot no. Section Township Range Lot Idn Feet from the Feet from the East/West line County 1950 WEST 1950 SAN JUAN 8 W SOUTH K 35 24 N ¹¹ Bottom Hole Location If Different From Surface North/South line UL or lot no. Section Township Range Lot ldn Feet from the Feet from the East/West line County 13 Joint or Infill 14 Consolidation Code 18 Dedicated Acres 40 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 2643.17 N 89°59'22" E 2650.571 S 89°58'45" E 17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief 2638. 2643. Signature ш 53 BRIAN WOOD <u>-</u>7 Printed Name 0°22' CONSULTANT Title S z APR. 20. 2006 SECTION 35 18 SURVEYOR CERTIFICATION 2641.14 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. 1950 LAT. 36 268901° LONG. 107.653665° NAD 83 2/10/06 Date of Survey Signature and 950 0°25'44" 0°21'50 z S

Energy, Minerals and Natural Resources Bargell Cols Ferreb Int. Isloos, NM 813-00	Submit 3 Copies To Appropriate District Office	State of Nev	/ Mexico		Form C-103	رمحسح
DOI W Gried Ave., Artesia, NM 8210 DOI STATE State	District I	Energy, Minerals and	Natural Resources	WINT A DI MO	May 27, 2004	1 .
District	•			WELL API NO. 33	718 RCV	P JAN
STATE FEE FE	1301 W. Grand Ave., Artesia, NM 88210					CONS.
Santa Fe, NM 87905 Santa F					EE 🗌	erre e
SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR FLUG BACK TO A DIPPERENT RESERVOIR. USE "APPLICATION FOR REPORT (FORM C-10) FOR SUCH 1. Type of Well: Oil Well	District IV	Santa Fe, N	M 87505		√o. ¹	₩ID1.d
DO NOT USE TIIIS FORM FOR PROPOSALS TO DRILL ON TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "PAPICATION FOR PROPOSALS")	· · · · · · · · · · · · · · · · · · ·			NOG 0207 1609	•	
DIFFERENT RESERVOIR USE 'APPLICATION FOR PERMIT (FORM C-101) FOR SUCH TURTLE MOUNTAIN 35	1			7. Lease Name or Unit Ag	reement Name	1
RONGALS Columber Gas Well Other S. Well Number #2				THE THE PAGE TO A PAGE TO	_	
2. Name of Operator	PROPOSALS.)		71)10K30ell)	-
ELM RIDGE EXPLORATION COMPANY, LLC 10, Pool name or Wildcat LYBROOK GALLUP		Gas Well Other				4
10. Pool name or Wildcat LYBROOK GALLUP		MPANY IIC		9. OGRID Number 14905	2	
P. O. BOX 156, BLOOMFIELD, NM 87413 LYBROOK GALLUP		WII AIVI, DEC		10. Pool name or Wildcat		1
Unit Letter: K Section 35 Township 24 N Range 8 W NMPM SJ County 11. Elevation (Show whether DR, RKB, RT, GR, etc.)		M 87413			-	
Township 24 N Range 8 W NMPM SJ County	4. Well Location					1
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 6.844° GL	Unit Letter: K	1950' FSL & 19	50' FWL			
Figure 2 12 mil Below-Grade Tank Application Dor Closure Pit type: DRILLING Depth to Groundwater: 520 Distance from nearest fresh water well: 200 Distance from nearest surface water: 10 Pit Liner Thickness: 12 mil Below-Grade Tank: Volume bbbs; Construction Material	Section 35	Township 24	N Range 8	W NMPM SJ	County	
Pit Use: DRILLING Depth to Groundwater: 350 Distance from nearest fresh water well: \$200 Distance from nearest surface water: >10		a ·	r DR, RKB, RT, GR, etc.,			
Pit type: DRILLING Pet Liner Thickness: 12 mil Below-Grade Tank: Volume bbls; Construction Material 12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK PLUG AND ABANDON REMEDIAL WORK ALTERING CASING COMMENCE DRILLING OPINS P AND A PULL OR ALTER CASING MULTIPLE COMPL OTHER: 13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion. 1 hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD gaidelines Ef. a general permit Or an attached) alternative OCD-approved plan SIGNATURE TITLE: CONSULTANT DATE: APRIL 20, 2006 Poper State lise Only 1 hereby certify the Box to Ground and proposed complete to the Dest of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD gaidelines Ef. a general permit Or an attached) alternative OCD-approved plan D. SIGNATURE SIGNATURE		3				\$
Pit Liner Thickness: 12 mil Below-Grade Tank: Volume bbbs; Construction Material						
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NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK PLUG AND ABANDON TEMPORARILY ABANDON CHANGE PLANS COMMENCE DRILLING OPNS PAND A PULL OR ALTER CASING MULTIPLE COMPL OTHER: Thereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been will be constructed or closed according to NMOCD guidelines [2], a general permit or an (attached) alternative OCD-approved plan SIGNATURE TITLE: CONSULTANT DATE: APRIL 20, 2006 Telephone No.: (505) 466-8120 For State Lise Only Telephone No.: (505) 466-8120						J
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LEASE: TURTLE MOUNTAIN 35 #2	ELM RIDGE EXPLORATION			
FOOTAGE: 1950' FSL, 1950' FWL		DALLAS, TEXAS		
SEC. 35 TWN. 24 N RNG. 8 W N.M.P.M.	SURVEYED: 2/10/06	REV. DATE:	APP. BY R.P.	
SEC (WN NNG N.W.FW.	DRAWN BY: A.D.	DATE DRAWN: 3/03/06	FILE NAME: 6502C01	
LATITUDE: <u>36.268901°</u> LONGITUDE: <u>107.653665°</u>		_		
ELEVATION: 6844	UNITED FIELD SERVICES II	FARMIN	D. BOX 3651 GTON, NM 87499 (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>	GL Depth	KB Depth	Elevation
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	Water Zones	Coal Zone
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.



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

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

Hole Size	<u>O. D.</u>	Weight (lb/f	t) <u>Grade</u>	Type	<u>Age</u>	GL Setting Depth
12-1/4"	8-5/8"	24	J-55 or K-55	ST&C	New	350'
7-7/8"	5-1/2"	10.55	J-55	LT&C	New	5,700'

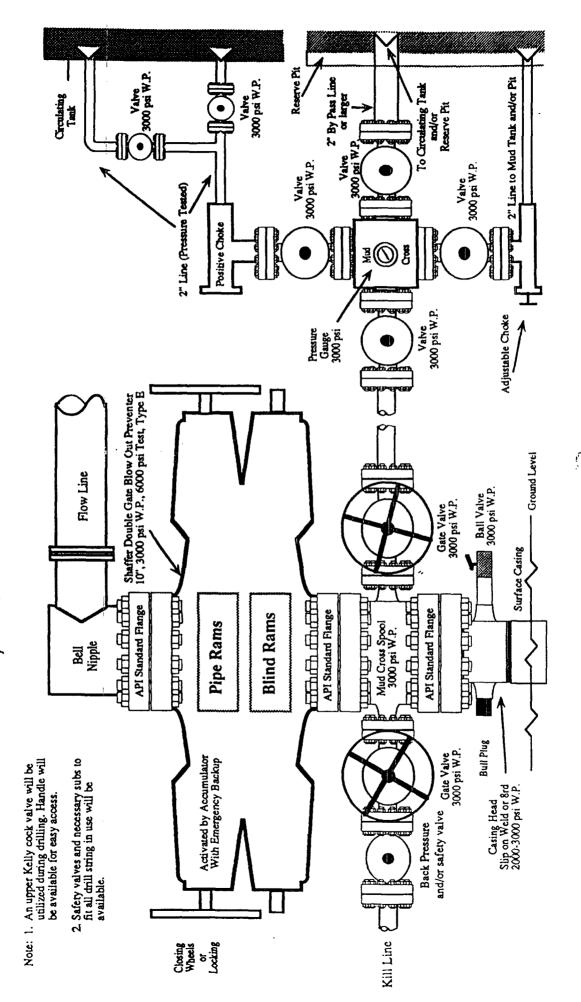
Surface casing will be cemented to the surface with ≈ 290 cubic feet (≈ 245 sacks) Class B with 1/4 pound per sack cellophane + 2% CaCl₂. Yield = 1.18 cubic feet per sack. Weight = 15.2 pounds per gallon. Volume = 100% excess. Centralizers will be installed on the middle of the shoe joint and every other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

Production casing will be cemented to the surface in 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 \approx 25 centralizers). Thread lock the guide shoe, bottom of float collar, and bottom of stage tool only. Use API casing dope.



Tough

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 #2 1950' FSL & 1950' FWL 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 mlx + 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	Viscosity	Fluid Loss	pН
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.

