

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

b. TYPE OF WELL

OIL
WELL ☐

GAS
WELL ☒

OTHER

SINGLE
ZONE ☐

MULTIPLE
ZONE ☒

2. NAME OF OPERATOR

Elm Ridge Resources, Inc.

(505) 632-3476

3. ADDRESS AND TELEPHONE NO.

P. O. Box 189, Farmington, NM 87499

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface

880' FNL & 1856' FWL

At proposed prod. zone

Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

15 air miles NE of Lybrook

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

1,760'

16. NO. OF ACRES IN LEASE

2,560

17. NO. OF ACRES ASSIGNED
TO THIS WELL

NW 1/4 160

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

100'

19. PROPOSED DEPTH

4,000'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

6,836' ungraded

22. APPROX. DATE WORK WILL START*

Aug. 10, 2002

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
8-5/8"	K-55 7"	23	250'	≈70 cu. ft. & to surface
6-3/4"	J-55 4-1/2"	10.5	4,000'	≈975 cu. ft. & to surface



cc: BIA, BLM, Elm (D&F), OCD (via BLM), T. Velarde

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

TITLE

Consultant (505) 466-8120

DATE

6-2-02

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

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:

APPROVED BY

/s/ Edwin J. Singleton

TITLE

FOM

DATE

MAR 24 2003

*See Instructions On Reverse Side

State of New Mexico
Energy, Minerals & Mining Resources Department
OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C - 102

☐ AMENDED REPORT

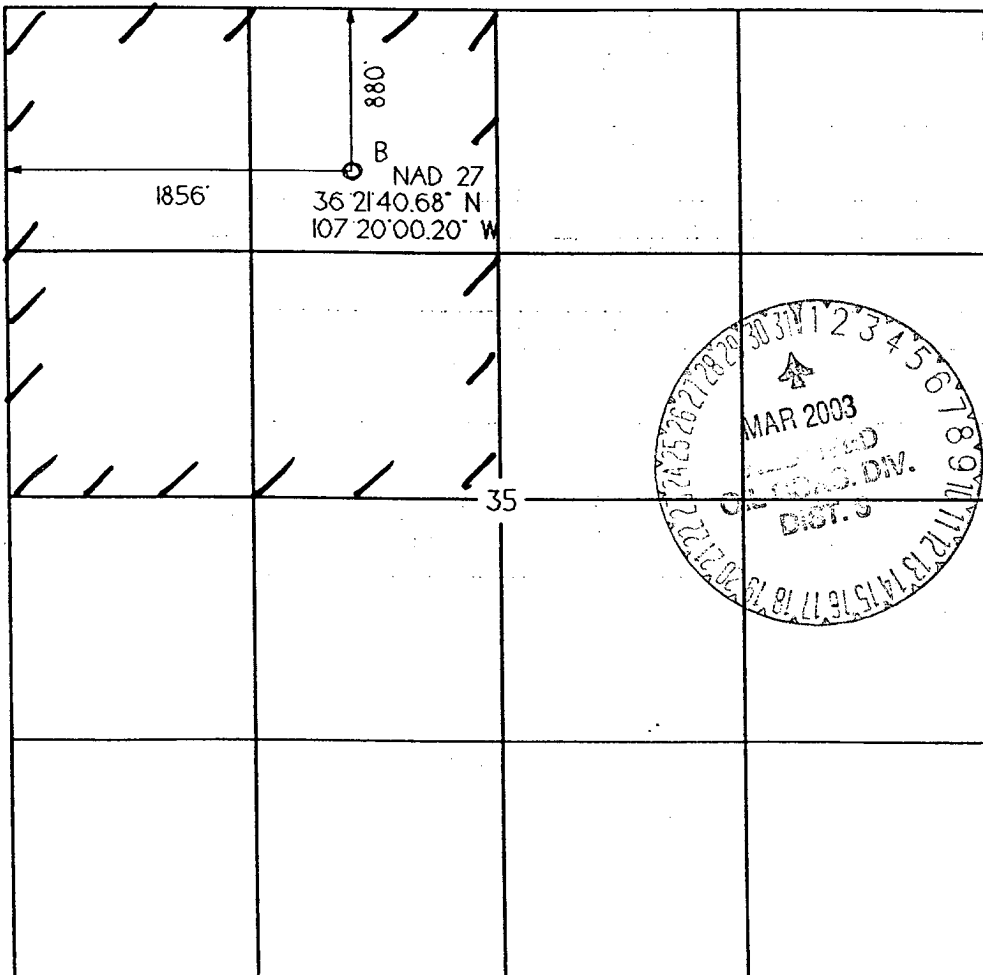
WELL LOCATION AND ACREAGE DEDICATION PLAT

APA Number 30-039-27405	Pool Code 72439 & 82329	Pool Name BLANCO PC SOUTH & OTERO CHACRA
Property Code 19025	Property Name APACHE A	Well Number 13
OGRID No. 149052	Operator Name ELM RIDGE RESOURCES	Elevation 6836'

Surface Location									
UL or Lot C	Sec. 35	Twp. 25 N.	Rge. 5 W.	Lot Idn.	Feet from 880'	North/South NORTH	Feet from 1856'	East/West WEST	County RIO ARriba

Bottom Hole Location If Different From Surface									
UL or Lot	Sec.	Twp.	Rge.	Lot Idn.	Feet from	North/South	Feet from	East/West	County
Dedication 160	Joint ?	Consolidation	Order No.						

NO ALLOWABLE WILL 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 that the information contained herein is true and complete to the best of my knowledge and belief. Signature <i>Brian Wood</i>	
Printed Name BRIAN WOOD	
Title CONSULTANT	
Date JUNE 2, 2002	
SURVEYOR CERTIFICATION I hereby certify that the well location 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. Date of Survey	
Signature and Seal for Professional Surveyor 	

Elm Ridge Resources, Inc.
Jicarilla Apache A #13
880' FNL & 1856' FWL
Sec. 35, T. 25 N., R. 5 W.
Rio Arriba County, New Mexico

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Drilling Program

1. ESTIMATED FORMATION TOPS

<u>Formation Name</u>	<u>GL Depth</u>	<u>KB Depth</u>	<u>Elevation</u>
San Jose	000'	10'	+6,836'
Ojo Alamo Ss	2,136'	2,146'	+4,700'
Kirtland Fm	2,536'	2,546'	+4,300'
Fruitland Coal	2,636'	2,646'	+4,200'
Pictured Cliffs Ss	2,886'	2,896'	+3,950'
Lewis Sh	2,961'	2,971'	+3,875'
Chacra Ss	3,736'	3,746'	+3,100'
Total Depth (TD)*	4,000'	4,010'	+2,836'

* all elevations reflect the ungraded ground level of 6,836'

2. NOTABLE ZONES

<u>Oil & Gas Zones</u>	<u>Water Zones</u>	<u>Coal Zones</u>
Ojo Alamo	San Jose	Fruitland
Fruitland	Ojo Alamo	
Pictured Cliffs	Fruitland	
Chacra		

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

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be used is not yet known. (A typical 2,000 psi model is on PAGE 3.) BOP and choke manifold system will be installed and tested to 500 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>
8-5/8"	7"	23	K-55	S T & C	New	250'
6-3/4"	4-1/2"	10.5	J-55	L T & C	New	4,000'

Surface casing will be cemented to the surface with ≈70 cubic feet (≈60 sacks) Class B with 1/4#/sk Flocele + 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. Thread lock the guide shoe and bottom of float collar only. Use API casing dope.

Production casing will be cemented to the surface with ≈975 cubic feet (≈827 sacks) Class B with 1/4#/sk Flocele + 2% CaCl₂. Yield = 1.18 cubic feet per sack. Weight = 15.2 pounds per gallon. Volume = 75% excess. At least ten centralizers will be used.