

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NMNM-070322
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name N/A
2. Name of Operator ELM RIDGE RESOURCES, INC.		7. If Unit or CA Agreement, Name and No. CARSON 27280
3a. Address P. O. BOX 189 FARMINGTON, NM 87499	3b. Phone No. (include area code) (505) 632-3476	8. Lease Name and Well No. CARSON UNIT 15 COM 323/T
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface 1069 FNL & 1816 FWL At proposed prod. zone SAME		9. API Well No. 30-045-32099
14. Distance in miles and direction from nearest town or post office* 22 AIR MILES SSW OF BLOOMFIELD		10. Field and Pool, or Exploratory BASIN FRUITLAND COAL
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 1,069 *		11. Sec., T., R., M., or Blk. and Survey or Area C15-25n-12wNMMPM
16. No. of Acres in lease 1,000		12. County or Parish SAN JUAN
17. Spacing Unit dedicated to this well W2 = 320 ACRES		13. State NM
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 2,416		19. Proposed Depth 1,350
20. BLM/BIA Bond No. on file #886201C (BLM - STATE WIDE)		
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6,266 GL		22. Approximate date work will start* UPON APPROVAL
23. Estimated duration 2 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. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification. |
| 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). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

Comments

*496 to closest lease boundary & 1,069 to closest communitization boundary.

On site inspector: Ralph Mason.

Well number changed from 323-S on Notice of Staking to 323-T.

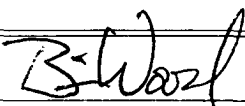

ER Well #: 3655

ER Lease #: 746

ALL OPERATIONS AUTHORIZED ARE
IN ACCORDANCE 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

cc:BLM (&OCD), Elm (D & F)

25. Signature 	Name (Printed/Typed) BRIAN WOOD	Date 12-29-03
Title CONSULTANT		
PHONE: 505 466-8120 FAX: 505 466-9682		
Approved by (Signature) 	Name (Printed/Typed) David J. Mankiewicz	Date FEB - 5 2004
Title Office		

Application approval does not warrant or certify the 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.

NMOCD

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

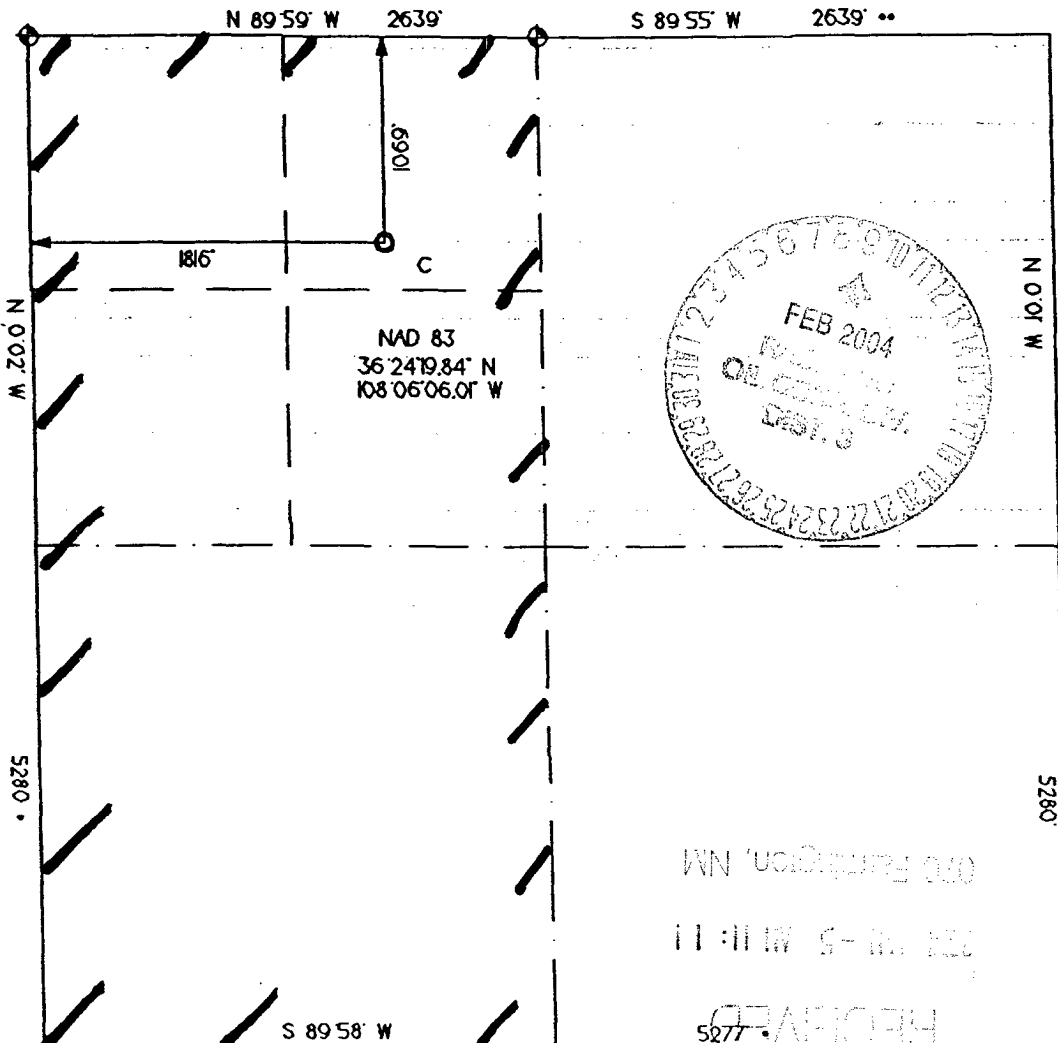
APA Number 30045-32099	Pool Code 71629	Pool Name BASIN FRUITLAND COAL
Property Code 22280	Property Name CARSON UNIT 15 COM	Well Number 323 - T
OGRID No. 149052	Operator Name ELM RIDGE RESOURCES	Elevation 6266'

Surface Location									
UL or Lot C	Sec. 15	Twp. 25 N.	Rge. 12 W.	Lot Ldn.	Feet from > 1069'	North/South NORTH	Feet from > 1816'	East/West WEST	County SAN JUAN

Bottom Hole Location if Different From Surface									
UL or Lot	Sec.	Twp.	Rge.	Lot Ldn.	Feet from >	North/South	Feet from >	East/West	County

Dedication 320	Joint ? .	Consolidation C	Order No.
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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>B. Wood</i>	
Printed Name BRIAN WOOD	
Title CONSULTANT	
Date DEC. 29, 2003	
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 9/30/03	
Signature and Seal of Professional Surveyor 	

Elm Ridge Resources, Inc.
Carson Unit 15 Com 323-T
1069' FNL & 1816' FWL
Sec. 15, T. 25 N., R. 12 W.
San Juan 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>Sub Sea Elevatio</u>
Nacimiento	000'	5'	+6,266'
Basal Fruitland Coal	1,041'	1,046'	+5,225'
Pictured Cliffs	1,091'	1,096'	+5,175'
Lewis Shale	1,266'	1,271'	+5,000'
Total Depth (TD)*	1,350'	1,355'	+4,916'

* all elevations reflect the ungraded ground level of 6,266'

2. NOTABLE ZONES

Oil & Gas Zones

Fruitland Coal

Pictured Cliffs

Water Zones

Nacimiento

Coal Zones

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.

3. PRESSURE CONTROL

The exact drill rig and BOP model to be used are 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.

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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"	20	K-55	S T & C	New	120'
6-3/4"	4-1/2"	10.5	J-55	L T & C	New	1,350'

Surface casing will be cemented to the surface with ≈ 35 cubic feet (≈ 30 sacks) Class B + 1/4 pound per sack cello flake + 2% CaCl_2 . Yield = 1.18 cubic feet per sack. Weight = 15.2 pounds per gallon. Volume = 100% excess. Two centralizers will be run. Thread lock guide shoe and bottom of float collar.

Production casing hole will be cleaned of rock chips by circulating $\geq 150\%$ of the hole volume with mud to the surface. Thirty-five barrels of fresh water will then be circulated. Lead with ≈ 215 cubic feet (≈ 105 sacks) of Class B with 2% metasilicate (yield = 2.06 cubic feet per sack and weight = 12.5 pounds per gallon). Tail with ≈ 125 cubic feet (≈ 105 sacks) of Class B with 2% CaCl_2 (yield = 1.18 cubic feet per sack and weight = 15.2 pounds per gallon). Total cement volume is ~~240~~ ³⁴⁰ cubic feet based on 75% excess and circulating to surface.