FORM APPROVED Form 3160-3 OMB No. 1004-0136 (August 1999) Expires November 30, 2000 5. Lease Serial No. NMSF-078062A BUREAU OF LAND MANAGEMENT 6. If Indian, Allottee or Tribe Name APPLICATION FOR PERMIT N/A 7. If Unit or CA Agreement, Name and No. la. Type of Work: T DRILL CARSON 8. Lease Name and Well No. Gas Well Other Oil Well Multiple Zone CARSON UNIT COAL 18 #1 Single Zone 1b. Type of Well: 9. API Well No. Name of Operator 30-045- 32027 **ELM RIDGE RESOURCES, INC.** 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory 3a. Address P. O. BOX 189 (505) 632-3476 **BASIN FRUITLAND COAL FARMINGTON, NM 87499** 11. Sec., T., R., M., or Blk. and Survey or Area Location of Well (Report location clearly and in accordance with any State requirements.*) At surface 897' FSL & 1223' FEL 18-25n-11w NMPM At proposed prod. zone SAME 13. State 12. County or Parish 14. Distance in miles and direction from nearest town or post office* NM **SAN JUAN** 23 AIR MILES SOUTH OF BLOOMFIELD 17. Spacing Unit dedicated to this well Distance from proposed* 16. No. of Acres in lease location to pearest property or lease line, ft. (Also to nearest drig. unit line, if any) S2 = 321.07 ACRES897' 1.280.30 19. Proposed Depth 20. BLM/BIA Bond No. on file 18. Distance from proposed location* to nearest well, drilling, completed, #886201C (BLM - STATE WIDE) 1,350 applied for, on this lease, ft. N/A 22. Approximate date work will start* 23. Estimated duration 21. Elevations (Show whether DF, KDB, RT, GL, etc.) **UPON APPROVAL** 2 WEEKS 6.416' GL 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form: Bond to cover the operations unless covered by an existing bond on file (see 1. Well plat certified by a registered surveyor. Item 20 above). 2. A Drilling Plan. Operator certification. 3. A Surface Use Plan (if the location is on National Forest System Lands, the Such other site specific information and/or plans as may be required by the SUPO shall be filed with the appropriate Forest Service Office). authorized officer. **Comments** On site inspector: Bryce Barlan. Archaeology report CASA 03-135 submitted 11-19-03. ER Well #: 3709 ER Lease #: 733 This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4 DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS". cc:BLM (&OCD) Fim (D & F)

		/	CC.DEM (GOC	, E (5 a ·)
25. Signature	BUNCH	Name (Printed/Typed)	BRIAN WOOD	Date 11-29-03
Title	CONSULTANT	PHONE: 505 466-8120	FAX: 505 466-9682	
Approved by (5	•	Name (Printed/Typed)	WAYNE TOWNSEND	Date 3/8/04
Title	WAYNE TOW	NSEND 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.

State of New Mexico Energy. Minerals & Mining Resources Department OL CONSERVATION DIVISION 2040 South Pacheco

2040 South Pacheco
Santa Fe. NM 87505

MENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT APA Number Pool Code Pool Name 30-045-32027 71629 BASIN FRUITLAND COAL Wal Number Property Name CARSON UNIT COAL 18 OGRID No. **Bevation** Operator Name 6416 ELM RIDGE RESOURCES 149052 Surface Location County UL or Lot Feet from North/South Feet Irons East/West Sec Twp. Lot lon Rgo. P 18 25 N. I W. 897 SOUTH 1223 **EAST** SAN JUAN Bottom Hole Location If Different From Surface UL or Lot Feet from> North/South | Feet from> County Trp. Lot lan East/West Dedication Joint ? Order Na. Consolidation 321.07 NO ALLOWABLE WILL ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION S 89 33 W 2644 - rotated -0:0712 2630 --N 89 04" W OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete · from GLO/BLM •• calculated to the best of my knowledge and belief. Signature Printed Name BRIAN WOOD Title CONSULTANT Date NOV 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 NAD 83 of my belief. 36 23 46.82 N Date of Survey 108 02 24.86° W Signature and Sed of Professional Sucheyor III 1223 897 ERED LAND SU

N 89 45' W

2643

Elm Ridge Resources, Inc.
Carson Unit Coal 18 #1
897' FSL & 1223' FEL
Sec. 18, T. 25 N., R. 11 W.
San Juan County, New Mexico

Drilling Program

1. ESTIMATED FORMATION TOPS

Formation Name	GL Depth	KB Depth	Sub Sea Elevatio
Nacimiento	000'	5'	+6,416'
Fruitland Coal	1,076'	1,081'	+5,340'
Pictured Cliffs	1,236'	1,265'	+5,180'
Total Depth (TD)*	1,350'	1,355'	+5,066'

^{*} all elevations reflect the ungraded ground level of 6,416'

2. NOTABLE ZONES

Oil & Gas Zones	Water Zones	Coal Zones
Fruitland Coal	Nacimiento	Fruitland
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 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.

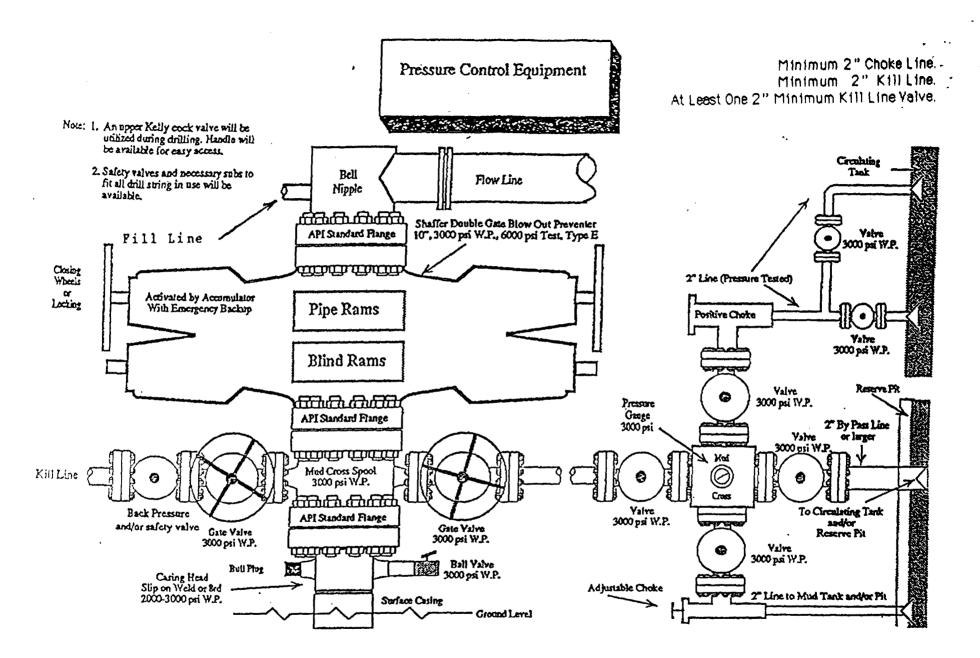
4. CASING & CEMENT

<u>Hole Size</u>	<u>O. D.</u>	Weight (lb/ft)	<u>Grade</u>	<u>Type</u>	<u>Age</u>	GL Setting Depth
8-5/8"	7"	20	K-55	ST&C	New	120'
6-3/4"	4-1/2"	10.5	J-55	LT&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% CaCl₂. 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% CaCl₂ (yield = 1.18 cubic feet per sack and weight = 15.2 pounds per gallon). Total cement volume is ≥ 240 cubic feet based on 75% excess and circulating to surface.





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 caried out per standard. 2,000 psi equipment can be substituted in the drawing to meet minimum requirements per standard.