

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No. 1004-0136
Expires November 30, 2000

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. BIA #11
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name JICARILLA APACHE
2. Name of Operator ELM RIDGE RESOURCES, INC.		7. If Unit or CA Agreement, Name and No. N/A
3a. Address P. O. BOX 189 FARMINGTON, NM 87499	3b. Phone No. (include area code) (505) 632-3476	8. Lease Name and Well No. JICARILLA APACHE B 14 E
4. Location of Well (Report location clearly and in accordance with any State requirements) At surface 1170' FSL & 790' FEL At proposed prod. zone SAME		9. API Well No. 30-039- 29286
14. Distance in miles and direction from nearest town or post office* 6 AIR MILES NORTHEAST OF COUNSELORS		10. Field and Pool, or Exploratory OTERO GALLUP & BASIN DAKOTA
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 4,110'	16. No. of Acres in lease 2,560	11. Sec., T., R., M., or Blk. and Survey or Area P19-24n-5w NMPM
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 269'	19. Proposed Depth 6,900'	12. County or Parish RIO ARRIBA 13. State NM
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6,585' GL	22. Approximate date work will start* UPON APPROVAL	17. Spacing Unit dedicated to this well OTERO GALLUP SESE - 10 ACRES BASIN DAKOTA: S2 = 320 ACRES 321.26
20. BLM/BIA Bond No. on file #886441C (BIA - NATION WIDE)		23. Estimated duration 4 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

The only other well in the quarter-quarter is an Elm Ridge PC well.

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

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

25. Signature 	Name (Printed/Typed) BRIAN WOOD	Date 8-2-03
Title CONSULTANT	PHONE: 505 466-8120	FAX: 505 466-9682
Approved by (Signature) 	Name (Printed/Typed) Jim Hval	Date 3/9/05
Title Acting Field Manager - Minerals	Office	

Application approval does not warrant or certify 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.

WMOCD

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	Pool Code 97232 48459 & 71599	Pool Name WC Basin Mancos OTERO GALLUP & BASIN DAKOTA
Property Code 19026	Property Name Jicarilla Apache B	Well Number 14E
GRID No. 149052	Operator Name ELM RIDGE RESOURCES	Elevation 6585'

Surface Location

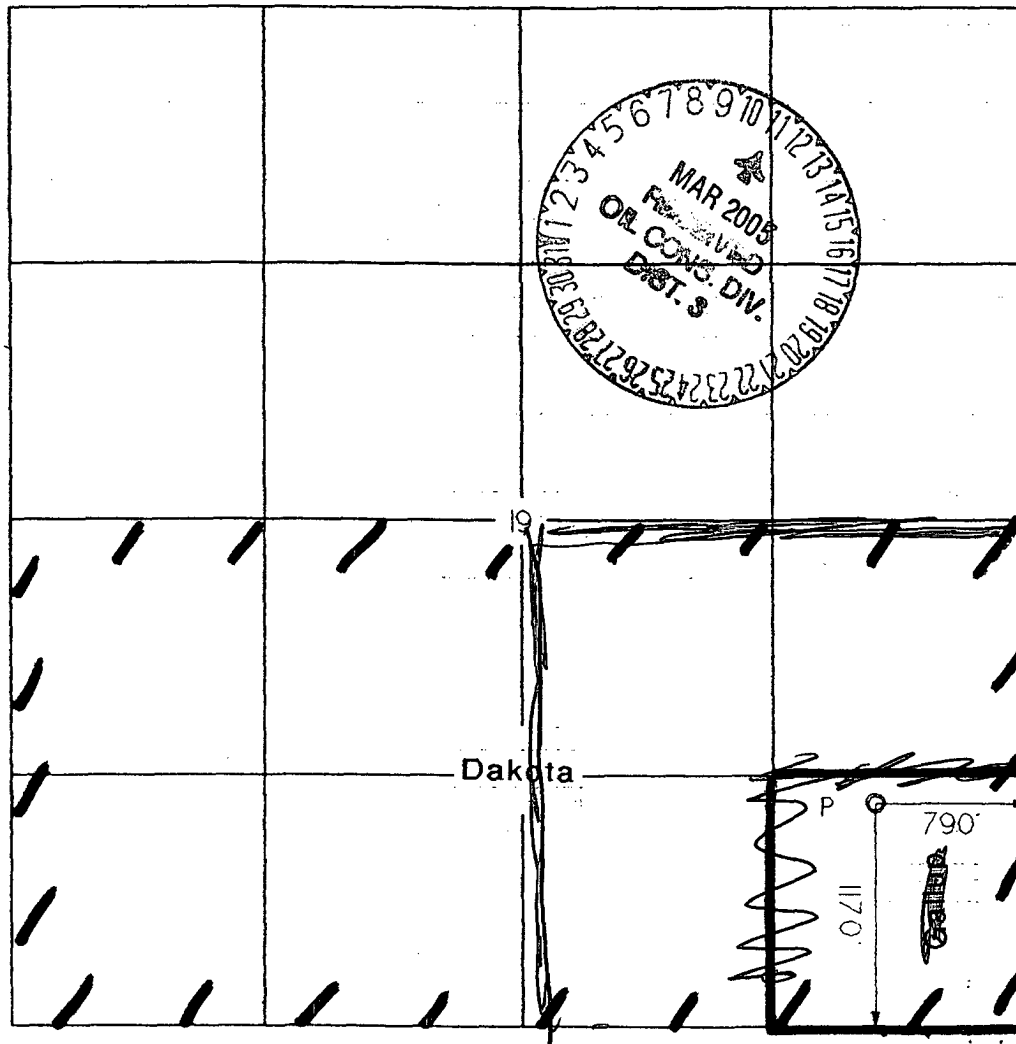
UL or Lot P	Sec. 19	Twp. 24 N.	Rge. 5 W.	Lot Idh.	Feet from > 1170'	North/South SOUTH	Feet from > 790'	East/West EAST	County RIO ARriba
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Bottom Hole Location if Different From Surface

UL or Lot	Sec.	Twp.	Rge.	Lot Idh.	Feet from >	North/South	Feet from >	East/West	County
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Dedication 140 140 & 328.26	Joint ?	Consolidation	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

B. Wood

Printed Name

BRIAN WOOD

Title

CONSULTANT

Date

AUGUST 2, 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

21 NOVEMBER 2002

Signature and Seal of Professional Surveyor



Submit 3 Copies To Appropriate District Office
District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Department of Geology, Minerals and Natural Resources

Form C-103
May 27, 2004

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO.	30-039-
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input type="checkbox"/>	
6. State Oil & Gas Lease No. BIA # 11	
7. Lease Name or Unit Agreement Name JICARILLA APACHE B	
8. Well Number	14E
9. OGRID Number	149052
10. Pool name or Wildcat OTERO GALLUP & BASIN DAKOTA	

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
6,585' GL

Pit or Below-grade Tank Application ☒ or Closure ☐

Pit type Reserve Depth to Groundwater ~320' Distance from nearest fresh water well ~4245' Distance from nearest surface water ~630'

Pit Liner Thickness: _____ mil Below-Grade Tank: Volume _____ bbls Construction Material _____

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well ☐ Gas Well ☒ Other _____

2. Name of Operator ELM RIDGE RESOURCES, INC.

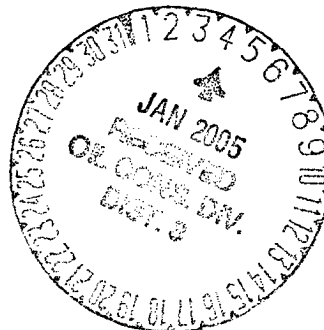
3. Address of Operator P.O. BOX 156, BLOOMFIELD, NM 87413

4. Well Location
Unit Letter P : 1170 feet from the SOUTH line and 790 feet from the EAST line
Section 19 Township 24N Range 5W NMPM County RIO ARRIBA

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>
PLUG AND ABANDON <input type="checkbox"/>	P AND A <input type="checkbox"/>
CHANGE PLANS <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>
MULTIPLE COMPL <input type="checkbox"/>	
OTHER: <u>RESERVE PIT</u> <input checked="" type="checkbox"/>	OTHER: _____ <input type="checkbox"/>

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.



I 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 guidelines ☒ a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE Craig M. Fiehler TITLE Biologist DATE 12/30/04

Type or print name Craig M. Fiehler
For State Use Only

E-mail address: craig@permitswest.com

Telephone No. 505-466-812

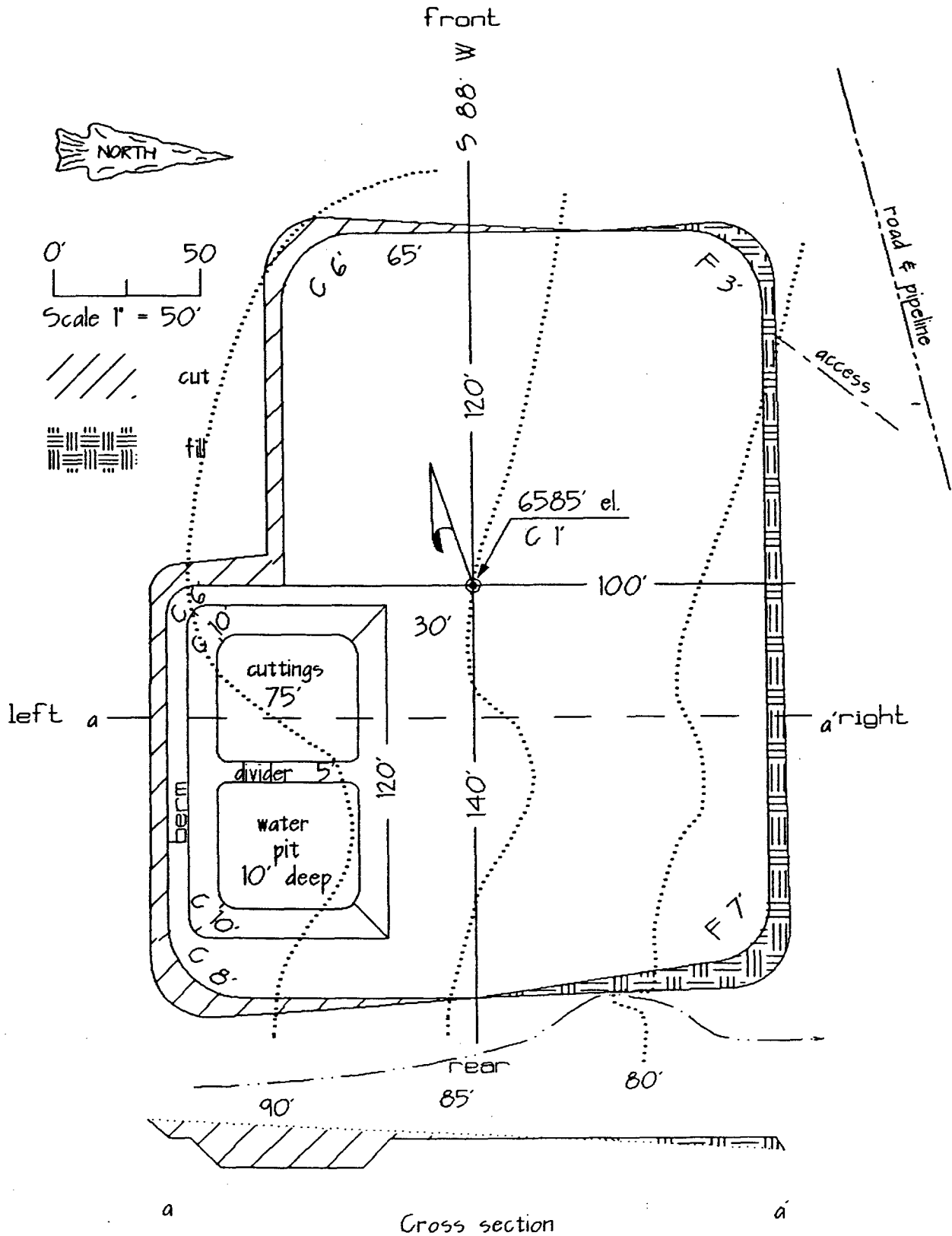
APPROVED BY: Original Signed By DENNY G FOUST

DEPUTY OIL & GAS INSPECTOR, DIST. 3

TITLE _____ DATE JAN - 4 2004

Conditions of Approval (if any):

Jicarilla Apache B # 14 E
well pad & section



Elm Ridge Resources, Inc.
Jicarilla Apache B 14 E
1170' FSL & 790' FEL
Sec. 19, T. 24 N., R. 5 W.
Rio Arriba County, New Mexico

PAGE 1

Drilling Program

1. ESTIMATED FORMATION TOPS

<u>Formation Name</u>	<u>GL Depth</u>	<u>KB Depth</u>	<u>Elevation</u>
San Jose	000'	12'	+6,585'
Kirtland-Fruitland	1,885'	1,897'	+4,700'
Pictured Cliffs Ss	2,180'	2,192'	+4,405'
Lewis Shale	2,260'	2,272'	+4,325'
Pt. Lookout Ss	4,340'	4,352'	+2,245'
Mancos Shale	4,535'	4,547'	+2,050'
Gallup Ss	5,410'	5,422'	+1,175'
Greenhorn	6,335'	6,347'	+250'
Dakota	6,560'	6,572'	+25'
Total Depth (TD)*	6,900'	6,912'	-315'

* all elevations reflect the ungraded ground level of 6,585'

2. NOTABLE ZONES

Oil & Gas Zones

Ojo Alamo
Pictured Cliffs
Gallup
Dakota

Water Zones

San Jose
Ojo Alamo

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.

Elm Ridge Resources, Inc.
Jicarilla Apache B 14 E
1170' FSL & 790' FEL
Sec. 19, T. 24 N., R. 5 W.
Rio Arriba County, New Mexico

PAGE 2

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 3,000 psi model is on PAGE 3. A $\geq 3,000$ 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

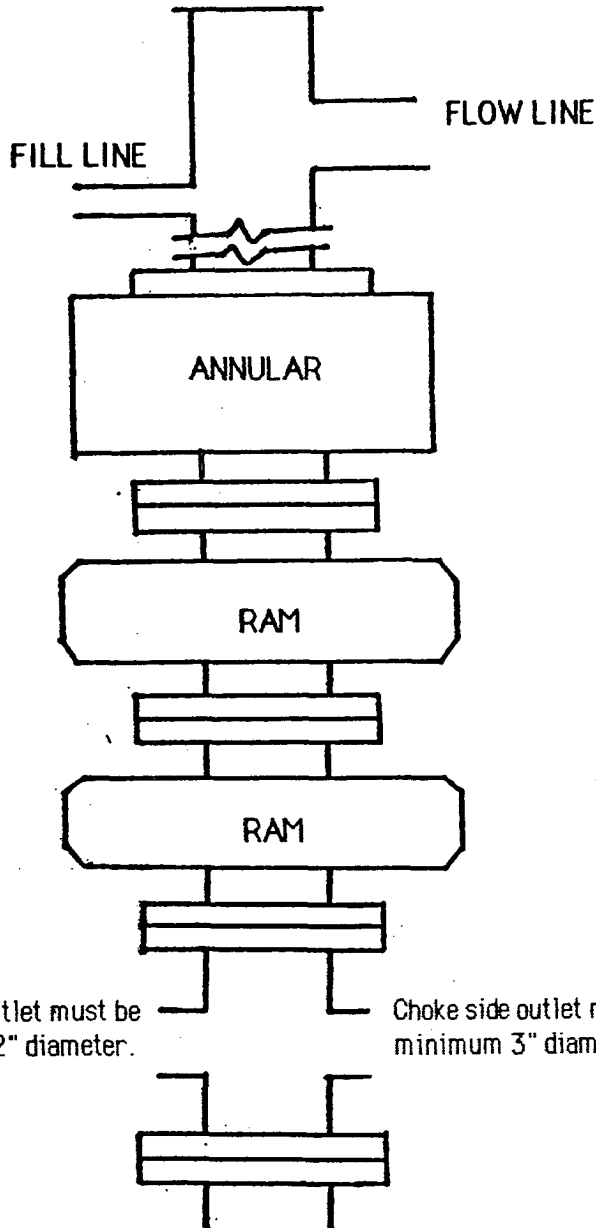
<u>Hole Size</u>	<u>O. D.</u>	<u>Weight (lb/ft)</u>	<u>Grade</u>	<u>Type</u>	<u>Age</u>	<u>GL Setting Depth</u>
12-1/4"	8-5/8"	24	K-55	S T & C	New	350'
7-7/8"	4-1/2"	10.5	J-55	L T & C	New	6,900'

Surface casing will be cemented to the surface with ≈ 290 cubic feet (≈ 246 sacks) Class B with 1/4#/sk Flocele + 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. Thread lock the guide shoe and bottom of float collar only. Use API casing dope.

Production casing will be cemented to surface in 2 stages. Set stage tool @ $\approx 4,750'$. Volume $\geq 75\%$ excess, but caliper log will be used to determine actual volume needed. Centralizers will be installed on middle of the shoe joint and on every joint thereafter (total of ≈ 30 centralizers). Thread lock the guide shoe, bottom of float collar, and bottom of stage tool only. Use API casing dope.

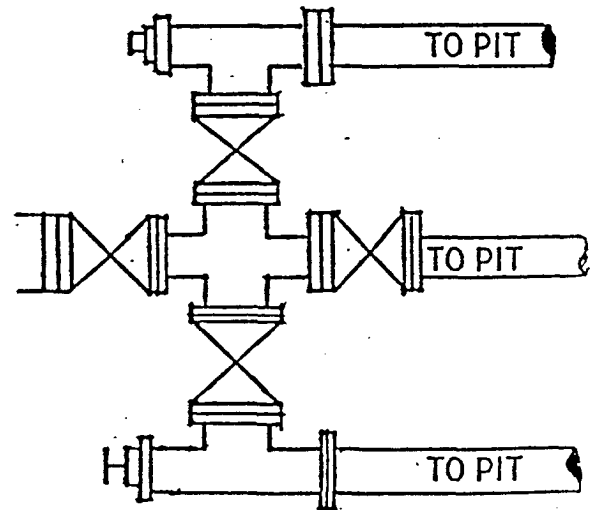
Elm Ridge Resources, Inc.
 Jicarilla Apache B 14 E
 1170' FSL & 790' FEL
 Sec. 19, T. 24 N., R. 5 W.
 Rio Arriba County, New Mexico

PAGE 3



TYPICAL BOP STACK
 & CHOKE MANIFOLD

There will be at least 2 chokes and 2 choke line valves (3" minimum). The choke line will be 3" in diameter. There will be a pressure gauge on the choke manifold.



Kill line will be minimum 2" diameter and have 2 valves, one of which shall be a minimum 2" check valve.

Upper kelly cock will have handle available.
 Safety valve and subs will fit all drill string connections in use.
 All BOPE connections subjected to well pressure will be flanged, welded, or clamped.

Elm Ridge Resources, Inc.
Jicarilla Apache B 14 E
1170' FSL & 790' FEL
Sec. 19, T. 24 N., R. 5 W.
Rio Arriba County, New Mexico

PAGE 4

First stage volume will be $\approx 1,337$ cubic feet. First stage will consist of ≈ 330 sacks Halliburton Lite with 65/35 poz mix + 1/4 pound per sack Flocele + 2% CaCl_2 (yield = 1.87 cubic feet per sack & weight = 12.7 pounds per gallon) followed by ≈ 610 sacks Class B + 2% CaCl_2 (yield = 1.18 cubic feet per sack & weight = 15.2 pounds per gallon).

Second stage volume will be $\approx 2,004$ cubic feet. Second stage will consist of $\approx 1,040$ sacks of Halliburton Lite with 65/35 poz mix + 1/4 pound per sack Flocele + 2% CaCl_2 (yield = 1.87 cubic feet per sack & weight = 12.7 pounds per gallon) followed by ≈ 50 sacks Class B + 2% CaCl_2 (yield = 1.18 cubic feet per sack & weight = 15.2 pounds per gallon)..

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	9.0	50	NC	9
350' - TD'	Fresh water gel	9.0	38-50	6.0	9

Sufficient material to maintain mud properties, control lost circulation, and contain a blowout will be available 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. CORING, TESTING, & LOGGING

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 10' from $\approx 4,000'$ to TD. Samples will be collected every 30' elsewhere.