Norm 3160-3 (August 1999)	7 8 Q 10 m	FORM APPROVED OMB No. 1004-0136 Expires November 30, 2000
UNITED STA		5. Lease Serial No.
DEPARTMENT OF TI BUREAU OF LAND M		BIA #11
APPLICATION FOR PERMIT T	6 7 A A	6. If Indian, Allottee or Tribe Name JICARILLA APACHE
Ia. Type of Work: DRILL R	SENTER DOT ON	7. If Unit or CA Agreement, Name and No.
1b. Type of Well: Oil Well Gas Well Other	Stage Zone D Mon	8. Lease Name and Well No. JICARILLA APACHE B 18 E
2. Name of Operator ELM RIDGE RESOURCES, IN		9. API Well No. 30-039- 29287
3a. Address P. O. BOX 189 FARMINGTON, NM 87499	3b. Phone No. (include area code) (505) 632-3476	10. Field and Pool, or Exploratory WCBas in Postero GAELUP & BASIN DAKOTA
4. Location of Well (Report location clearly and in accordance	ce with any State requirements.*)	11. Sec., T., R., M., or Blk. and Survey or Area
At surface 1390' FNL & 1275' At proposed prod. zone SAME	FWL	€29-24n-5w NMPM
14. Distance in miles and direction from nearest town or post of 6 AIR MILES NORTHEAST OF CO		12. County or Parish RIO ARRIBA 13. State NM
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 3,890'	16. No. of Acres in lease 2,560	17. Spacing Unit dedicated to this well WC Ba6IN W OTERO GALLUP: SWNW = 40 ACRES BASIN DAKOTA: N2 = 320 ACRES
18. Distance from proposed location*	19. Proposed Depth	20. BLM/BIA Bond No. on file
to nearest well, drilling, completed, applied for, on this lease, ft. 178'	6,900'	#886441C (BIA - NATION WIDE)
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will st	
6,695' GL	UPON APPROVA	L 4 WEEKS
	24. Attachments	
The following, completed in accordance with the requirements o	f Onshore Oil and Gas Order No.1, shall be a	ttached to this form:
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest Syst SUPO shall be filed with the appropriate Forest Service Office.) 	Item 20 above) 5. Operator certifi	cation. specific information and/or plans as may be required by the
	authorized offic	zer.
Comments		
The only other well in the quarter-qua	rter is an Elm Ridge PC well.	ı
DRULLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACH "GENERAL REQUIREMENTS".	This action is subject to procedural review pursuant to	lant to 43 CFR 3166 3
,	oo: Pi	A PIM (80CD) Elm (D.8 E) Nation

		cc:	BIA, BLM (&OCD), E	Im (D & F), Natio
25. Signatur	R-West	Name (Printed/Typed)	BRIAN WOOD	Date 8-7-03
Title	CONSULTANT	PHONE: 505 466-8120	FAX: 505 466-968	2
Approved by	(Signature)	Name (Printed/Typed)		Date 9/05
Title 	chop held Manage	- New Office		
operations th	approval does not warrant or certify the	e applicant holds legal or equitable title to those righ	nts in the subject lease which would	entitle the applicant to conduc
Title 18 U.S.	C. Section 1001 and Title 43 U.S.C. Secti	on 1212, make it a crime for any person knowingly.	and willfully to make to any departr	nent or agency of the United

States any false, fictitious or fraudulent statements or representations as to any matter within its unit of the statements of the stateme

State of New Mexico Enc. 4y. Minerals & Mining Resources Department OIL CONSERVATION DIVISION 2040 South Pacheco

Santa Fe. NM 87505

MENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

30039-29	9287	9723 ^{Pod Code} 48450 & 71599	WCBUSIN OTERO	MAUCO GOOD NOME	. J
Property Code		Proper	ty Name	(. · · · · · · · · · · · · · · · · · ·	Well Number
19026		. Jicarilla A	Apache B		18E
OGRID No.		Operat	or Name		Bevation
149052		• ELM RIDGE	RESOURCES		6695

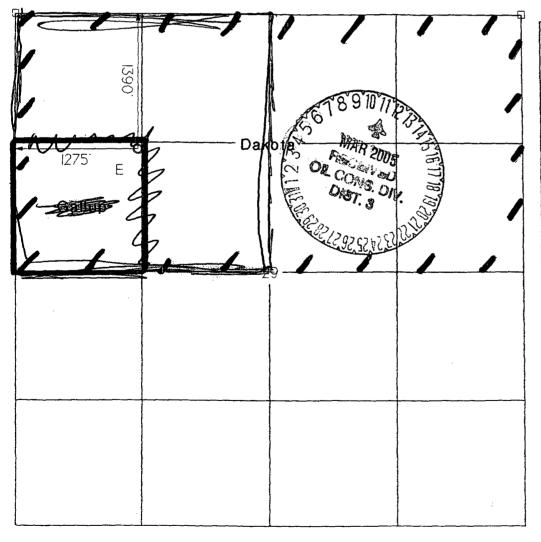
Surface Location

	UL or Lot	Sec.	Ĩøp.	Rge.	Lot Idn	Feet from>	North/South	Feet from>	East/West	County
-	E	29	24 N.	5 W.		1390.	NORTH	1275	WEST	RIO ARRIBA

Bottom Hole Location If Different From Surface

							_				
	UL or Lot	Sec.	Twp.	Rge.	Lot ldn.	Feet	from>	North/South	Feet from>	East/West	County
Γ	Dedication	Jo	int?	Consolida	tion			·	Orde	r No.	
1	Q X 0 & 320			•		•					

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

Printed Name **BRIAN WOOD**

Title

CONSULTANT

AUGUST 7, 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 Surve

Signature Profession ERED LAND

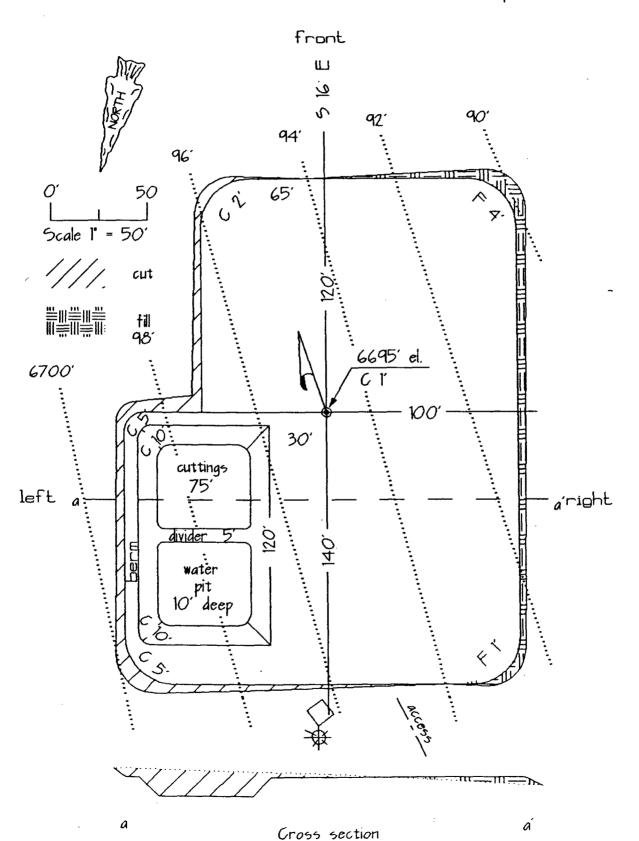
Office	of New Mexico	Form C-103 May 27, 2004
1625 N. French Dr., Hobbs, NM 88240	als and Natural Resources	we'll API NO. 30-039-
District II 1301 W. Grand Ave., Artesia, NM 88210 OIL CONSE	RVATION DIVISION	5. Indicate Type of Lease
	uth St. Francis Dr.	STATE FEE
District IV Santa	Fe, NM 87505	6. State Oil & Gas Lease No.
1220 S. St. Francis Dr., Santa Fe, NM 87505		BIA # 11
SUNDRY NOTICES AND REPORTS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO D DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (F	EEPEN OR PLUG BACK TO A	7. Lease Name or Unit Agreement Name JICARILLA APACHE B
PROPOSALS.) 1. Type of Well: Oil Well Gas Well X Other		8. Well Number 18E
2. Name of Operator ELM RIDGE RESOURCE	S, INC.	9. OGRID Number 149052 -
3. Address of Operator P.O. BOX 156, BLOOMFI	ELD, NM 87413	10. Pool name or Wildcat OTERO GALLUP & BASIN DAKOTA
4. Well Location		
		275feet from theWESTline
Section 29 Township		NMPM County RIO ARRIBA
11. Elevation (Show 6,695' GL Pit or Below-grade Tank Application X or Closure	whether DR, RKB, RT, GR, etc.	
Pit type Reserve Depth to Groundwater ~430' Distance from	washed fred water well at 1 Ami Die	lance from acquest surface water ~440'
Pit Liner Thickness: mil Below-Grade Tank:		onstruction Material
12. Check Appropriate Box to	Indicate Nature of Notice,	Report of Other Data
NOTICE OF INTENTION TO: PERFORM REMEDIAL WORK PLUG AND ABAND TEMPORARILY ABANDON CHANGE PLANS PULL OR ALTER CASING MULTIPLE COMPL	ON REMEDIAL WOR	LLING OPNS. P AND A
OTHER: RESERVE PIT	☑ OTHER:	
13. Describe proposed or completed operations. (Cle		
of starting any proposed work). SEE RULE 1103 or recompletion.	3. For Multiple Completions: A	tach wellbore diagram of proposed completion
•		_
		23436 411,305 1000 1000 1000 1000 1000 1000 1000 1
		Well Glade
I hereby certify that the information above is true and com grade tank has been/will be constructed or closed according to NMO	plete to the best of my knowledg CD guidelines XI, a general permit	e and belief. I further certify that any pit or below- or an (attached) alternative OCD-approved plan
SIGNATURE Craig M. Fiehler Type or print name Craig M. Fiehler	TITLE Biologist	DATE 12/30/04
Type or print name Craig M. Fiehler For State Use Only	E-mail address: craig@perm	Telephone No. 505-466-8

APPROVED **Original Signed By DENNY G FOUST**Conditions of Approval (if any):

TITL BEPUTY OIL & GAS INSPECTOR, DIST. #82

DATE

<u>Jicarilla Apache B # 18 E</u> well pod & section



Elm Ridge Resources, Inc. Jicarilla Apache B 18 E 1390' FNL & 1275' FWL Sec. 29, T. 24 N., R. 5 W. Rio Arriba County, New Mexico

Drilling Program

1. ESTIMATED FORMATION TOPS

Formation Name	GL Depth	KB Depth	Elevation
San Jose	000'	12'	+6,695'
Kirtland-Fruitland	1,995'	2,007'	+4,700'
Pictured Cliffs Ss	2,280'	2,292'	+4,415'
Lewis Shale	2,385'	2,397'	+4,310'
Pt. Lookout Ss	4,440'	4,452'	+2,255'
Mancos Shale	4,555'	4,567'	+2,140'
Gallup Ss	5,520'	5,532'	+1,175'
Greenhorn	6,445'	6,457'	+250'
Dakota	6,670'	6,682'	+25'
Total Depth (TD)*	6,900'	6,912'	-205'

^{*} all elevations reflect the ungraded ground level of 6,695'

2. NOTABLE ZONES

Oil & Gas Zones	Water Zones	Coal Zones
Ojo Alamo	San Jose	Fruitland
Pictured Cliffs	Ojo Alamo	
Gallup	•	

Gallup Dakota

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 18 E
1390' FNL & 1275' FWL
Sec. 29, T. 24 N., R. 5 W.
Rio Arriba 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 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.

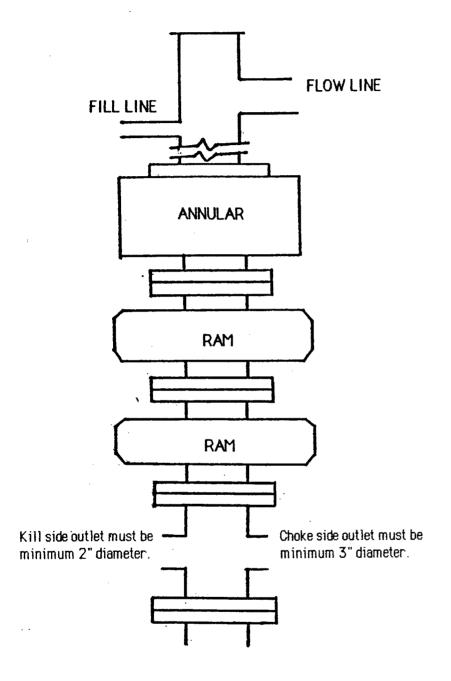
4. CASING & CEMENT

<u>Hole Size</u>	<u>O. D.</u>	Weight (lb/ft)	<u>Grade</u>	<u>Type</u>	<u>Age</u>	GL Setting Depth
12-1/4"	8-5/8"	24	K-55	ST&C	New	350'
7-7/8"	4-1/2"	10.5	J-55	LT&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% 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.

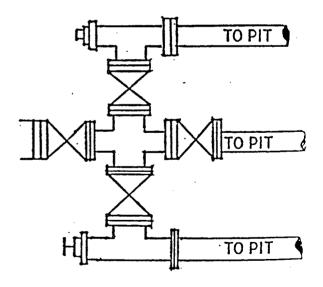
Production casing will be cemented to surface in 2 stages. Set stage tool @ $\approx 4,750$ '. Volume $\geq 75\%$ excess, but caliper log will be used to determine actual volume needed. Centralizers will be installed on middle of the shoe joint and on every joint thereafter (total of ≈ 30 centralizers).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





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 18 E 1390' FNL & 1275' FWL Sec. 29, T. 24 N., R. 5 W. Rio Arriba County, New Mexico

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% CaCl₂ (yield = 1.87 cubic feet per sack & weight = 12.7 pounds per gallon) followed by ≈ 610 sacks Class B + 2% CaCl₂ (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% CaCl₂ (yield = 1.87 cubic feet per sack & weight = 12.7 pounds per gallon) followed by ≈ 50 sacks Class B + 2% CaCl₂ (yield = 1.18 cubic feet per sack & weight = 15.2 pounds per gallon)..

5. MUD PROGRAM

<u>Depth</u>	<u>Type</u>	ppg	<u>Viscosity</u>	Fluid Loss	pН
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.

