Form 3150-3 (August 1999)

FORM AP	PROVED
OMB No.	1004-0136
Expires Noven	nber 30, 2000

(August 1999)	TPC	•	ı	Expires No	vember 30		
UNITED STATES DEPARTMENT OF THE INTERIOR			5.	5. Lease Serial No.			
BUREAU OF LAND MANAGEMENT				BIA #11			
APPLICATION FOR PERMIT TO	DRILL OR R	EENTER	1	If Indian, Allotte			
		TI PA 3: 39		JICARILLA	APA	CHE	
1a. Type of Work: DRILL REE	NTER			If Unit or CA Agr	eement,	Name and No.	
	12. 14. 14.	. M. July 20 E. M.	ii.	N/A		·	
1b. Type of Well: Oil Well Gas Well Other				8. Lease Name and Well No. JICARILLA APACHE B 20			
 Name of Operator ELM RIDGE RESOURCES, INC 	.			API Well No	17	721	
3a. Address P. O. BOX 189		o. (include area code)		Field and Pool, or			
FARMINGTON, NM 87499	(5)	05) 632-3476		BALLARD PICTURED CLIFFS			
4. Location of Well (Report location clearly and in accordance to	with any State requ	irements.*)	11.	Sec., T., R., M., o	r Blk. an	d Survey or Area	
At surface 1085' FNL & 935' FEI	L		A	19-24n-5w	NM	PM	
At proposed prod. zone SAME			13	13-2411-311	14141	1 191	
14 Distance in miles and direction from nearest town or post office 7 AIR MILES NORTHEAST OF COU				County or Parish RIO ARRIBA		13. State	
15. Distance from proposed* location to nearest		Acres in lease	17. Spacing Un	it dedicated to this	well		
property or lease line, ft. (Also to nearest drig. unit line, if any)	2,56	0	NE4 =	160 ACRE	S		
18. Distance from proposed location*	19. Propose	ed Depth	20. BLM/BIA	Bond No. on file			
to nearest well, drilling, completed, applied for, on this lease, ft. 107'	2,400	2,400' #88		86441C (BIA - NATION WIDE)			
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6,505' GL	1	imate date work will sta		. Estimated duration 3 WEEKS			
		chments					
The following, completed in accordance with the requirements of O			tached to this for	m·			
	nonor on and oa.						
Well plat certified by a registered surveyor.		4. Bond to cover the Item 20 above).	ne operations un	iless covered by an	existing	bond on file (see	
 A Drilling Plan. A Surface Use Plan (if the location is on National Forest System 	Lands, the	5. Operator certific					
SUPO shall be filed with the appropriate Forest Service Office)		6. Such other site s authorized office		on and/or plans as	may be r	equired by the	
Comments			- 20 V	10/17/200			
Comments				1. " W 1/2.			
The only other well in the quarter-quar	ter is an Elm	Ridge well.	130	~~ ()'			
the entry content were in the quarter quar		agoo	i. Mi	Y 20 04	<u>-1</u>]		
			The State of the S	ere DW.	55		
			and the second second	57.8	(2) (3)		
			Ass.	1	3/		
			Day.	250	,		
			100 /	5.95.35 AC BE			
			•				
			::BIA, BLM	(&OCD), E		& F), Tribe	
25. Signature Butter	Name	e (Printed/Typed)	BRIAN W	OOD	Date	7-5-03	
CONSULTANT PHO	NE: 505 46	6-8120	FAX: 505	466-9682			
Approved by (Signature)	Nam	e (Printed/Typed)			AAY Date		
/a/ Bavid R. Sitzler	INAIII	o (i rumeto i ppeta)		1	ALA TYPE	5 2004	

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.

Office

Conditions of approval, if any, are attached.

Assistant Field Manager

Title

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.

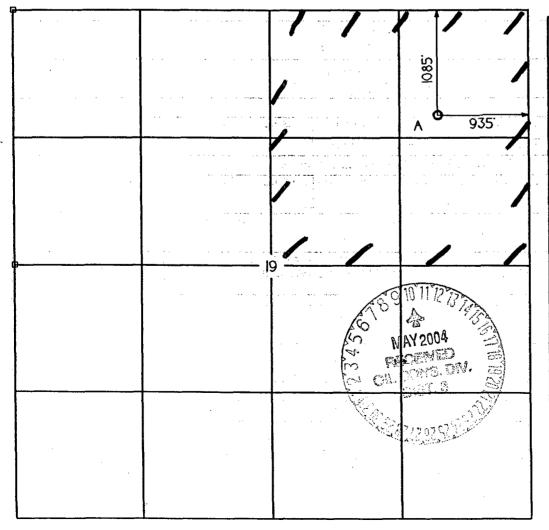
State of New Mexico Energy. Minerals & Mining Resources Department OL CONSERVATION DIVISION 2040 South Pacheco Santa Fe. NM 87505

MENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT APA Number Pool Name Pool Code 30-039-2772 71439 BALLARD PICTURED CLIFFS Property Code 19026 Wall Number Property Name APACHE B 20 0GRD No. 149052 Bevation Operator Name 6505 ELM RIDGE RESOURCES

Surface Location Rgo. Feet from> North/South | Feet from> County Lot lan East/West UL or Lot Sec Tup. 19 24 N 5 W. 1085 **NORTH** 935 **EAST** RIO ARRIBA A Bottom Hale Location of Different From Surface UL or Lot Twp. Rge. Lot lan 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

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 betef. Signature Printed Name BRIAN WOOD CONSULTANT JULY 5, 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 Signatur & Profession

ERED LAND

Elm Ridge Resources, Inc.
Jicarilla Apache 8 #20
1085' FNL & 935' FEL
Sec. 19, 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'	5'	+6,505'
Kirtland Shale	1,858'	1,863'	+4,647'
Pictured Cliffs Ss	2,119'	2,124'	+4,386'
Lewis Shale	2,219'	2,224'	+4,286'
Total Depth (TD)*	2,400'	2,405'	+4,105'

^{*} all elevations reflect the ungraded ground level of 6,505'

2. NOTABLE ZONES

Oil & Gas Zones	Water Zones	Coal Zones
Ojo Alamo	San Jose	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 drilling contract has not yet been awarded, thus the exact BOP model to 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



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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

Hole Size	<u>O. D.</u>	Weight (lb/ft)	<u>Grade</u>	Type	<u>Age</u>	GL Setting Depth
8-5/8"	7"	23	K-55	ST&C	New	250'
6-3/4"	4-1/2"	10.5	J-55	LT&C	New	2,400'

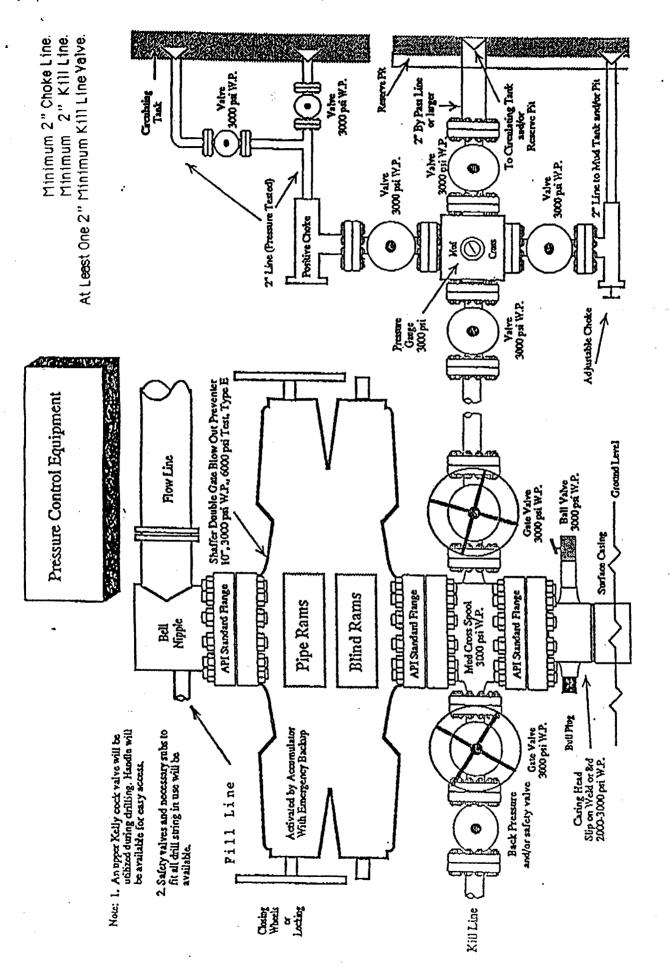
Surface casing will be cemented to the surface with ≈ 70 cubic feet (≈ 60 sacks) Class B with 1/4#/sk Flocele + 2% CaCl₂. Yield = 1.18 cubic feet per sack. Weight = 15.2 pounds per gallon. Volume = 100% excess. Centralizers will be installed on the middle of the shoe joint and every other centralizer 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 ≈ 590 cubic feet (≈ 500 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 six centralizers will be used.

5. MUD PROGRAM

A nine pound polymer and fresh water mud system with a viscosity of ≈35 will be used. Sufficient material to maintain mud properties, control lost circulation, and contain a blowout will be available at the well while drilling.





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.

Vicarilla Apache B 20 well pad & section

