Form 3160-3 August 199

UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED OMB No. 1004-0136

Expires November 30, 2000

 J 183	MADE TO VIEW	Lease Serial No
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	BUREAU OF I	LAND MANAG	EMENT	المسبط للسبك الأراق بالمساد أتحميدا	MINIMINIO 14033				
		6. If Indian, Allottee or Tribe N	ame						
	APPLICATION FOR PE	HMII IO DH		<u> </u>	9 N/A				
la	Type of Work: DRILL	☐ REENTEI	2		7. If Unit or CA Agreement, Nan	ne and No.			
	DRILL	C KEENTE	` 070 F	Farmington, Mil	N/A				
,	A CONTRACT OF THE PARTY OF THE				O. Lease Maine and Well ING.				
1b.	Type of Well: Oil Well Gas Well	Other	Single Zone	Multiple Zone	FEDERAL 35 43-R				
2.	Name of Operator				9. API Well No.	. /			
	ELM RIDGE RESOURCE	ES, INC.			30-045- 3/95	4			
3a.	Address P. O. BOX 189		3b. Phone No. (include of	•	10. Field and Pool, or Exploratory	·*			
	FARMINGTON, NM 874	99	(505) 632	2-3476	LYBROOK GALLUP				
4.	Location of Well (Report location clearly and in		any State requirements.*)	JAN TO	11. Sec., T., R., M., or Bik. and St	urvey or Area			
	At surface 2030' FSL & 5	540' FEL	(A)	000	X	1.a			
	At proposed prod. zone SAME			OCT 2004	35-24n-8w NMPN				
14.	Distance in miles and direction from nearest town 6 AIR MILES EAST OFNAGE		5,	CONTROL DIV	County or Parish	13. State NM			
15.	Distance from proposed*		16. No. of Acres in lea	ise 17. Špaci	ng Unit dedicated to this well	····			
ν_{l}	location to nearest		لمريخ ا		. 7				
J	property or lease line, ft. (Also to nearest drig, unit line, if any) 54	40'	160	AE08.628212	SE = 40 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.	30'	5,600'	#88	B6201C (BLM - STATE	E WIDE)			
21.	Elevations (Show whether DF, KDB, RT, GL, e	tc.)	22. Approximate date	work will start*	23. Estimated duration				
	6,870'	GL	UPON APP	'ROVAL	3 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.
- 2. A Drilling Plan.
- 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).
- 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification.
- Such other site specific information and/or plans as may be required by the authorized officer.

Comments

Only other well in quarter-quarter is an Elm Ridge well which will be P&A (see Sundry dated 12-27-02).

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: E	BIA, BLM (&OCD), EIn	n (D & F), Nation
25. Signature	Third		Name (Printed/Typed)	BRIAN WOOD	Date 10-4-03
Title	CONSULTANT	PHONE: 50	5 466-8120	FAX: 505 466-9682	
Approved by (3	12) Mantie 1	v ()	Name (Printed/Typed)		Date 13-04
Title	AFM		Office FFO)	
operations there		he applicant holds legal or	equitable title to those right	s in the subject lease which would en	ntitle the applicant to conduct
Conditions of a	pproval, if any, are attached.				
Title 18 U.S.C. States any false	Section 1001 and Title 43 U.S.C. Section fictitious or fraudulent statements or	tion 1212, make it a crime representations as to any i	for any person knowingly a matter within its jurisdiction.	nd willfully to make to any departme	nt or agency of the United

State of New Mexico Energy. Minerals & Mining Resources Department OIL CONSERVĂTION DIVISION 2040 South Pacheco

Santa Fe. NM 87505

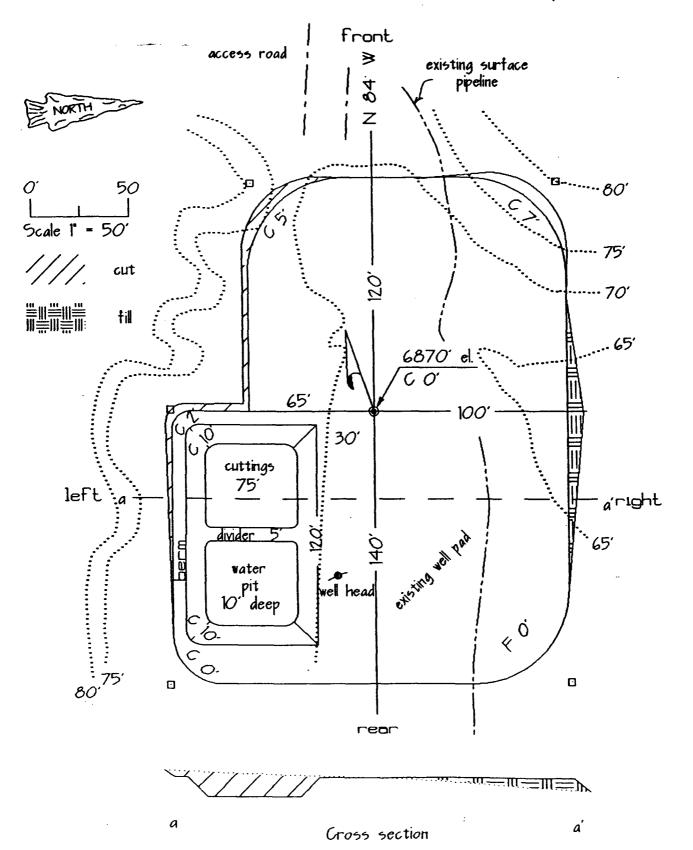
MENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT APA Number Pool Code Pool Name 30045 42289 LYBROOK GALLUP Wal Number Property Name FEDERAL 35 43 R OGRID No. Operator Name Bevation 149052 6870 **ELM RIDGE RESOURCES** Surface Location Feet from North/South County UL or Lot Loi la Tφ. Rga. Feet Iron> East/West 8 W. 2030 SAN JUAN 35 24 N. SOUTH 540 **EAST** Bottom Hole Location If Different From Surface UL or Lot Sec. Rge. Lot lon Feet from> North/South Feet from> County Tup. East/West Dedication 40 Joint ? Order Na. Consolidation NO ALLOWABLE WILL ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNT HAS BEEN APPROVED BY THE DIMSION N 89'56'W 5291 OPERATOR CERTIFICATION I hereby certify that the information contained herein in true and complete to the best of my knowledge and belief. Signature <u>₩.6</u>I Ó Printed Name BRIAN WOOD z Title CONSULTANT Date OCT. 4, 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 540 of my belief. Date of Survey Signature and Sout of Co.
Professional Surfession (C) Ö Z 6844 TERFO LAND

5303

N 89 57 W

Federal 35 # 43 R well pad & section



Elm Ridge Resources, Inc. Federal 35 43-R 2030' FSL & 540' FEL Sec. 35, T. 24 N., R. 8 W. San Juan County, New Mexico

Drilling Program

1. ESTIMATED FORMATION TOPS

Formation Name	GL Depth	KB Depth	<u>Elevation</u>
Nacimiento	000'	12'	+6,870'
Ojo Alamo Sandstone	1,075'	1,089'	+5,795'
Fruitland Coal	1,475'	1,489'	+5,395'
Pictured Cliffs Sandstone	1,820'	1,832'	+5,050'
Point Lookout Sandstone	4,070'	4,082'	+2,800'
Mancos Shale	4,400'	4,412'	+2,470'
Gallup Sandstone	5,220'	5,232'	+1,650'
Total Depth	5,600'	5,612'	+1,270'

^{*} all elevations reflect the ungraded ground level of 6,870'

2. NOTABLE ZONES

Oil &/or Gas Zones	<u>Water Zones</u>	<u>Coal Zone</u>
Fruitland	Nacimiento	Fruitland
Pictured Cliffs	Fruitland	
Gallup	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 3,000 psi model is on PAGE 3.



Elm Ridge Resources, Inc. Federal 35 43-R 2030' FSL & 540' FEL Sec. 35, T. 24 N., R. 8 W. San Juan County, New Mexico

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.

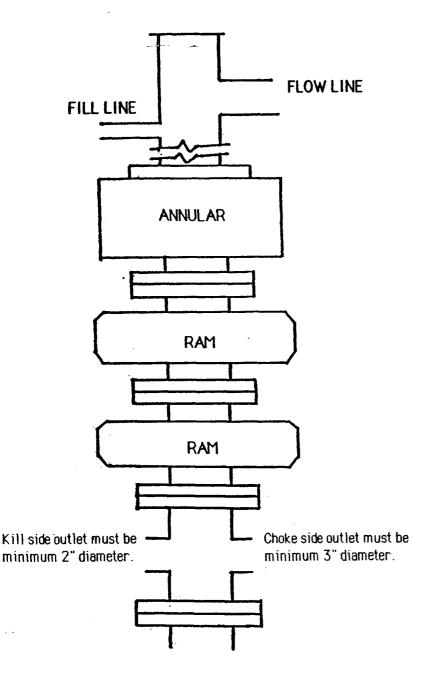
4. CASING & CEMENT

Hole Size	<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	4 T & C	New	5,600'

Surface casing will be cemented to the surface with ≈ 330 cubic feet (≈ 280 sacks) Class B with 1/4#/sk Flocele + 2% CaCl₂ mixed at 1.18 cubic feet per sack and 15.2 pounds per gallon. Volume = 110% 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.

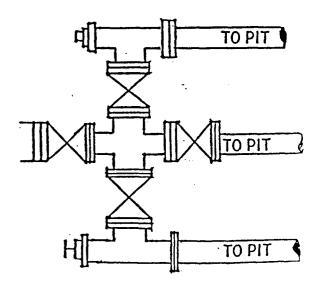
Production casing will be cemented to the surface in 2 stages with a stage tool set @ \approx 3,900' (i. e., over 100' above top of Point Lookout). Centralizers will be installed on the middle of the shoe joint and on every joint thereafter (total \approx 2 dozen centralizers). Thread lock the guide 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. Federal 35 43-R 2030' FSL & 540' FEL Sec. 35, T. 24 N., R. 8 W. San Juan County, New Mexico

First stage volume will be ≈ 800 cubic feet ($\geq 105\%$ excess) consisting of ≈ 195 sacks of Halliburton light with 65/35 poz mix + 1/4 #/sk Flocele + 2% CaCl₂ (yield = 1.87 cubic feet per sack, weight = 12.7 pounds per gallon) followed by ≈ 370 sacks Class B + 2% CaCl₂ (yield = 1.18 cubic feet per sack, weight = 15.2 pounds per gallon). Caliper logs will be used to determine actual volume needed.

Second stage volume will be $\approx 1,800$ cubic feet (≥ 100 % excess) consisting of ≈ 925 sacks of Halliburton light with 65/35 poz mix + 1/4 #/sk Flocele + 2% CaCl₂ (yield = 1.87 cubic feet per sack, weight = 12.7 pounds per gallon) followed by ≈ 50 sacks of Class B + 2% CaCl₂ (yield = 1.18 cubic feet per sack, weight = 15.2 pounds per gallon) to cover the Mesa Verde, Pictured Cliffs, and Ojo Alamo. Caliper logs will be used to determine actual volume needed.

5. MUD PROGRAM

<u>Depth</u>	Type	ppg	Viscosity	Fluid Loss	Нq
0' - 350'	Fresh water gel chem	9.0	50	NC	9
350' - TD'	Fresh water gel chem	9.0	38-50	6.0	9

Enough material to maintain mud properties, control lost circulation, and contain a blowout will be 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 200' above the Point Lookout through the Gallup. Samples will be collected every 30' elsewhere.

