Form 3160-3 (July 1992)

APPROVED BY \_

# **UNITED STATES**

SUBMIT IN TRIPLICATE.

FORM APPROVED OMB NO. 1004-0136 Expires: February 28, 1995

(Other instructions on reverse side)

BUREAU OF LAND MANAGEMENT					5. LEASE NEWSTON ON 8067		
APPLI	6. IF IND	AN, ALLOTTER OR TRIM NA AE					
1a. TYPE OF WORK  DRI  b. TYPE OF WELL  OIL  WELL  WELL  WAR	LL @	DEEPEN 🗆	SINGLE U MULTI	PLE C	GREEMENT NAME N/A 23637 450014 WEL40 324R		
2. NAME OF OPERATOR Elm Ridge Re	esources, Inc.		(505) 632-3				
3. ADDRESS AND TELEPHONE NO.	9, Farmington	NM 97400		30-	045-31007		
4. LOCATION OF WELL (Re	eport location clearly and 675' FSL 8	in accordance with any & 1909' FWL	State requirements.*)		Sin Pruit. Doal		
At proposed prod. zone	Same			N AND S	N AND SURVEY OR AREA 14-25n-12w NMPM		
	ND DIRECTION FROM NEAR SSW of Bloom		ICE*	12. COUNT San	Juan NM		
15. DISTANCE FROM PROPO LOCATION TO NEAREST	SED*		NO. OF ACRES IN LEASE	17. NO. OF ACRES AS			
PROPERTY OR LEASE LI (Also to nearest drig 18. DISTANCE FROM PROPE	. unit line, if any)	1,909'	1,680		<u>5/2</u> 320		
TO NEAREST WELL, DR OR APPLIED FOR, ON THE	HLLING, COMPLETED.	1,391'	1,350'	20. ROTARY OR CABL	Rotary		
21. ELEVATIONS (Show whe		,423' ungra	ded	22. APP	Apr. 1, 2002		
23.	1	PROPOSED CASING A	ND CEMENTING PROGRA	АМ			
SIZE OF HOLE 8-5/8"	GRADE, SIZE OF CASING  K-55 7"	WEIGHT PER FOOT	SETTING DEPTH		ITY OF CEMENT		
6-3/4"	K-55 7" J-55 4-1/2"	20 10.5	120'		5 cu. ft. & to surface 0 cu. ft. & to surface		
On sited with Bill I	Liess.		•••	dedect to gompi General requiri	IANCE WITH ATTACHE		
Archaeology repor	t CASA 02-11 file	d February 6, 20	002.		* :		
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		A P	MAR SAMO		)		
			Transfer wood on		1		
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	·		e de la companya de l				
				and proposed new product	kF), OCD (via BLM) ive zone. If proposal is to drill or		
SIGNED STORED	2021	TITLE	Consultant (505)	466-8120	2-19-02		
(This space for Feder	al or State office use)	<del></del>	APPROVAL DATE	3/25/02			
Application approval does no	ot warrant or certify that the app	licant holds legal or equitable		t lease which would entitle the	applicant to conduct operations there		
CONDITIONS OF APPROVAL	•				MAR 2 5		

\_ TITLE \_

\*See Instructions On Reverse Side

\_ DATE \_

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District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV

PO Box 2088, Santa Fe, NM 87504-2088

## State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088 Form C-102
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies

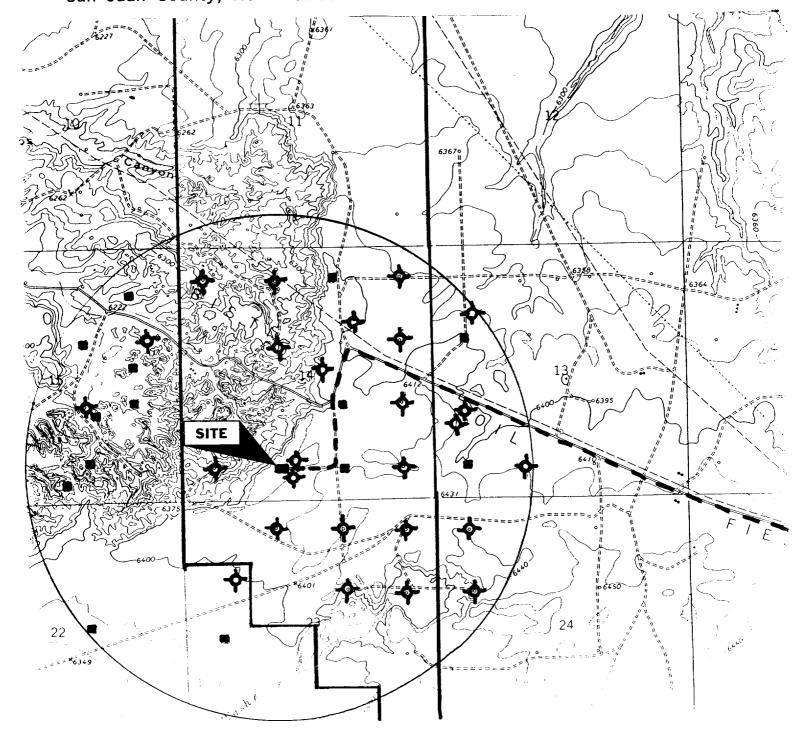
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND	ACREAGE	DEDICATION PLA	Т
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30-045-31007 71629 BASIN FRUITLAND COAL GAS											
<sup>4</sup> Property	Code					erty Name				· · ·	Well Number
<del>-01545</del>	<del>-7</del> -	29637 · CARSON 14° 324 R									
'OGRID	No.				* Oper	stor Nume		<del></del>		<u>-</u>	* Élevation
14905	52		. ELM	RIDGE R	ESOURCES, I	NC.					6423 '
					10 Surfa	ce Location			L		· · · · · · · · · · · · · · · · · · ·
UL or lot no.	Section	Township	Range	Lot Idn	Feet from th	e North/South line	Fee	t from the	East/West	line	County
L	14	25N	12W	N	675	SOUTH		1909	WEST	\A	SAN JUAN
<u> </u>		· · · · · · · · · · · · · · · · · · ·		tom Ho	le Location	If Different Fr	rom :	Surface		-	
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	e North/South line	Fee	t from the	East/West	line	County
<sup>12</sup> Dedicated Acr	res 13 Joint	or Infill 14 (	Consolidatio	n Code 15	Order No.						<u> </u>
320	•	·   ·			•	•	•		•		•
NO ALLOV	WABLE \	WILL BE A	NON-STA	D TO TH	IS COMPLE UNIT HAS	TION UNTIL ALL BEEN APPROVED	INTI	ERESTS H	AVE BEE	N CO	NSOLIDATED
16		<del>'''</del>								CEPT	TIFICATION
											contained herein is
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					IV/ACCE	u de Maria		Signatuce	В	RIAN	WOOD
					• · · · · · · · · · · · · · · · · · · ·			Printed Nam	° CC	NSU	ILTANT
								Title	FEB	. 19	, 2002
			SECT10N	14	The first section of			Date			
111	7	1		17	7	/ /	7	18SURV	EYOR (	CERT	IFICATION
/								I hereby certif	y that the wel	l location	shown on this plat
							1	or under my s	upervision, a	nd that th	l surveys made by me e same is true and
/	ŀ							correct to the	best of my be 1BER 31,	_	
	ļ							Date of Surve	y		
/				+	<del></del>			Signature and	Scal OKAHOLE	11111111111111111111111111111111111111	Wildings:
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19	09'	(	એ,~	108°0	'44.79" N 5'00.46" W				= T. 3/		\
			ļ					,		59 <sup>19</sup>	) Form
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Elm Ridge Resources, Inc. Carson 14 324R 675' FSL & 1909' FWL Sec. 14, T. 25 N., R. 12 W. San Juan County, New Mexico



PROPOSED WELL: EXISTING ROAD: •

EXISTING WELL:

LEASE: P & A WELL: 💠



Elm Ridge Resources, Inc. Carson 14 324R 675' FSL & 1909' FWL Sec. 14, T. 25 N., R. 12 W. San Juan County, New Mexico

## **Drilling Program**

#### 1. ESTIMATED FORMATION TOPS

Formation Name	GL Depth	KB Depth	Sub Sea Elevation
Nacimiento	000'	5'	+6,423'
Basal Fruitland Coal	1,168'	1,055'	+5,255'
Pictured Cliffs Ss	1,219'	1,105'	+5,204'
Total Depth (TD)*	1,350'	1,205'	+5,073'

<sup>\*</sup> all elevations reflect the ungraded ground level of 6,423'

# 2. <u>NOTABLE ZONES</u>

Oil & Gas Zones	Water Zones	<u>Coal Zones</u>
Fruitland Coal (1,168')	Nacimiento (000')	Fruitland (1,168')
Pictured Cliffs (1,219')		

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.



Elm Ridge Resources, Inc.
Carson 14 324R
675' FSL & 1909' FWL
Sec. 14, T. 25 N., R. 12 W.
San Juan County, New Mexico

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  $\approx 35$  cubic feet ( $\approx 30$  sx) Class B + 1/4 pound per sack cello flake + 2% CaCl<sub>2</sub>. 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  $\approx 215$  cubic feet ( $\approx 105$  sacks) of Class B with 2% metasilicate (yield = 2.06 cubic feet per sack and weight = 12.5 pounds per gallon). Tail with  $\approx 125$  cubic feet ( $\approx 105$  sacks) of Class B with 2% CaCl<sub>2</sub> (yield = 1.18 cubic feet per sack and weight = 15.2 pounds per gallon). Total cement volume is  $\frac{240}{359}$  cubic feet based on 75% excess and circulating to surface.

Production casing will be cemented to the surface with ~290 cubic feet (~345 sacks) Class B with 2% gel. Volume is based on 80% excess. At least four centralizers will be used.

