SUBMIT IN TRIPLICATE. (Other instructions on

FORM APPROVED OMB NO. 1004-0136

NMOCD

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•	<b>BUREAU OF</b>	LAND MANAGEME	NI			
APPLI	CATION FOR PE	RMIT TO DRIL	L OR DEEPEN	6	. IF INDIAN,	ALLOTTES OR TRIBE,
a. TYPE OF WORK	LL 🖭	DEEPEN []			. UNIT AGERI	
. TYPE OF WELL		- · · · · · · · · · · · · · · · · · · ·			32267	Unit 11
OIL GA	ELL. OTHER		INGLE MULTIP	8	Cars	on 11 33
	sources, Inc.		(505) 632-34	476 📴	API WELL NO.	
ADDRESS AND TELEPHONE NO.	9, Farmington	NM 87499			30-04.	5-31019
	eport location clearly and		State requirements.*)	1	Basir	roof, or Filder
At surface	1780' FNL	& 1/// FEL	-	1	1. SEC., T., R.	., M., OR BLK. EY OR AREA
At proposed prod. zon	<ul><li>Same</li></ul>			6		
	ND DIRECTION FROM NEAR		CE*			n-12w NM r parish   13. stati
22 air miles 5. DISTANCE FROM PROPO	SSW of Bloor		NO OF AUDITORING	1 17	San Ji	· · · · · · · · · · · · · · · · · · ·
LOCATION TO NEAREST PROPERTY OR LEASE L	INE, FT.	1,777'	1,680	17. NO. OF .	ACRES ASSIGN	F/L 32
(Also to nearest drig 8. DISTANCE FROM PROP TO NEAREST WELL, D	OSED LOCATION®	19. 1	PROPOSED DEPTH	20. ROTARY	OR CABLE TO	OOL8
OR APPLIED FOR, ON THE	IS LEASE, FT.	3,175'	1,350'	1		Rota
1. ELEVATIONS (Show who	etner DF, RT, GR, etc.)	,355' ungrad	ded		22. APPROX.	July 1, 200
3.			m courses and an	<u> </u>		
		PROPOSED CASING A	ND CEMENTING PROGRA	M		
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	.м		OF CEMENT
8-5/8"	K-55 7"	WEIGHT PER FOOT	SETTING DEPTH		≈35 c	u. ft. & to surfa
8-5/8" 6-3/4"	K-55 7" J-55 4-1/2"	#EIGHT PER FOOT 20 10.5	SETTING DEPTH 120' 1,350' DRILLING OPERATI	ONS AUTHOR	≈35 c ≈340 c	u. ft. & to surfa u. ft. & to surfa
8-5/8" 6-3/4"  se issued Febr	J-55 4-172"  J-55 4-172"  Tuary 1, 1948. This action is subject procedural review pursuant to appeal pursuant to	to technical and suant to 43 CFR 3165.4.	DRILLING OPERATI SUBJECT TO COMP "GENERAL REQUIR  APR 2003	ONS AUTHOR LIANCE WITH EMENTS"	~35 c ~340 c	ou. ft. & to surface.  (via BLM), T
8-5/8" 6-3/4"  se issued Febr	J-55 4-1/2"  "Uary 1, 1948. This action is subject procedural review pursuant to	weight per foot 20 10.5  to technical and suant to 43 CFR 316 a 43 CFR 3185.4.	DRILLING OPERATI SUBJECT TO COMP "GENERAL REQUIR  APR 2003	ONS AUTHOR LIANCE WITH EMENTS"	≈35 C ≈340 C RIZED ARE I ATTACHEI	ou. ft. & to surface.  (via BLM), T
8-5/8" 6-3/4"  se issued Febr	J-55 4-1/2"  "Uary 1, 1948. This action is subject procedural review pursuant to	weight per foot 20 10.5  to technical and suant to 43 CFR 316 a 43 CFR 3185.4.	DRILLING OPERATI SUBJECT TO COMP "GENERAL REQUIR  APR 2003  CC: BIA, BLM, Elm ata on present productive zone	ONS AUTHOR LIANCE WITH EMENTS"	≈35 C ≈340 C RIZED ARE I ATTACHEI	ou. ft. & to surface.  (via BLM), T
8-5/8" 6-3/4"  se issued Febrer  I  I  I  I  I  I  I  I  I  I  I  I  I	J-55 4-1/2"  "Uary 1, 1948. This action is subject procedural review pursuant to	weight per foot 20 10.5  to technical and suant to 43 CFR 316 3 43 CFR 3165.4.  f proposal is to deepen, give dons and measured and true ver	DRILLING OPERATI SUBJECT TO COMP "GENERAL REQUIR  APR 2003  CC: BIA, BLM, Elm ata on present productive zone tical depths. Give Nowout prev	ONS AUTHOR LIANCE WITH EMENTS"	≈35 C ≈340 C RIZED ARE I ATTACHEI	(via BLM), T

\*See Instructions On Reverse Side Type IS U.S. c. Section 1991, makes it a prime tor any person knowingly and willfully to make to any department or agency of the District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazes 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 PLAT

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		<sup>16</sup> Surface Location										
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			11 Bot	tom Hol	e Loc	ation l	f Different Fr	om	Surface			
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Elm Ridge Resources, Inc.
Carson 11 332R
1780' FNL & 1777' FEL
Sec. 11, 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'	+6,355'
Basal Fruitland Coal	1,182'	1,187'	+5,173'
Pictured Cliffs Ss	1,195'	1,200'	+5,160'
Total Depth (TD)*	1,350'	1,355'	+5,005'

<sup>\*</sup> all elevations reflect the existing ground level of 6,355'

#### 2. NOTABLE ZONES

Oil & Gas Zones	<u>Water Zones</u>	<u>Coal Zones</u>
Fruitland Coal (1,182')	Nacimiento (000')	Fruitland (1,182')
Pictured Cliffs (1,195')		

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.
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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>	Type	<u>Age</u>	<u>GL Setting Depth</u>
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 ( $\approx 30$  sacks) 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 240 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.

