.'c∋m 3160-3 (July 1992)

HNITED STATES

SUBMIT IN TRIPLICATE. (Other instructions on

FORM APPROVED OMB NO. .1004-0136

DEDADTMENT	T OF THE	INTERIOR		,	Expires: Fet	reary 28, 1995
					5. LEASE DESIGNATI	ON AND SERIAL NO.
BUREAU OF	LAND MANA	GEMENT			DIA #	167
LICATION FOR P	ERMIT TO	DRILL OR DE	FDEN			TER OR TRIRE NAME
		JITTLE OIL DE				
RILL 🗹	DEEPEN				7. UNIT AGREEMENT	Pacife
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WELL OTHER		SINGLE Z		'LE	8. FARM OR LEASE NAME	MBIT NO
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esources Inc.	(505) 326-	-7099			·	
). Oto Formingto	- NA 0:	7404			1	3 2/22/
ata, Farmingto	n, NM 8	7401			10 FIELD AND BOOL	1- (632)
Report location clearly and	in accordance w	ith any State requirem	ents.*)		South Bla	inco PC
1450' FSL	& 1190'	FWL		ı	11. SEC., T., R., M., O	R Rf.K
one					AND SURVEY OR	AREA
Same					1-23n-3w	NMPM
AND DIRECTION FROM NEA	REST TOWN OR POS	ST OFFICE*				
W of Lindrith,	NM		•			NM
POSED*		16. NO. OF ACRES IN	LEASE	17. NO. O		
LINE, FT.	1450'	22	17.7	TO TE	IIS WELL	160
POSED LOCATION*		.l		20 ROTAL	V OP CARLE MOULE	
HIS LEASE, FT.	2448'	1 _	161'	JO. ROTAL		N. f
hether DF, RT, GR, etc.)		<u> </u>	. 0 1			
7,1	75' ungrad	ded ground				
	PROPOSED CAST	ING AND CEMENTING	PROGRAM	l		
GRADE, SIZE OF CASING	WEIGHT PER F	OOT SETTING D	ЕРТН	·	QUANTITY OF CEM	ENT
7" (K-55)	20#		250'		≈60 cu ft	& to surface
4-1/2" (J-55)	10.5#	3	161'			& to surface
1		1				
	BUREAU OF LICATION FOR P RILL GAS WELL OTHER CONTROL CONTROL	BUREAU OF LAND MANA LICATION FOR PERMIT TO RILL DEEPEN GAS WELL OTHER CSOURCES Inc. (505) 326- ata, Farmington, NM 87 Report location clearly and in accordance w 1450' FSL & 1190' Same AND DIRECTION FROM NEAREST TOWN OR POSE W of Lindrith, NM POBED* ST LINE, FT.	DEEPEN DE	BUREAU OF LAND MANAGEMENT LICATION FOR PERMIT TO DRILL OR DEEPEN OTHER DEEPEN SINGLE SINGLE MULTIP ZONE SOURCES INC. (505) 326-7099 Data, Farmington, NM 87401 Report location clearly and in accordance with any State requirements.*) 1450' FSL & 1190' FWL OTHER SAME AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* W of Lindrith, NM POSED* ATT LINE, FT. 18. unit line, if any) POSED LOCATION* DISILLINE, COMPLETED. RIS LEASE, FT. 2448' 19. PROPOSED DEPTH DISILLINE, COMPLETED. T7, 175' ungraded ground PROPOSED CASING AND CEMENTING PROGRAM ORADE, SIZEOFCASING WEIGHT PER FOOT SETTING DEPTH 7" (K-55) 20# 250'	BUREAU OF LAND MANAGEMENT LICATION FOR PERMIT TO DRILL OR DEEPEN BINGLE OTHER SINGLE SINGLE MULTIPLE ZONE SOURCES Inc. (505) 326-7099 Data, Farmington, NM 87401 Report location clearly and in accordance with any State requirements.*) 1450' FSL & 1190' FWL DIRE Same AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* W of Lindrith, NM POSED LINE, FT. Ig. unit line, if any) 1450' 705ED LOCATION* DRILLING, COMPLETED. REBL LEASE, TT. 1450' 7,175' ungraded ground PROPOSED CASING AND CEMENTING PROGRAM GRADE SIZEOFCASING WEIGHT PER FOOT SETTING DEPTH	BUREAU OF LAND MANAGEMENT LICATION FOR PERMIT TO DRILL OR DEEPEN GLAS WELL OTHER SINGLE ZONE MULTIPLE ZONE MULTIPLE ZONE MULTIPLE ZONE MULTIPLE ZONE MULTIPLE ZONE APAGENEMENT APACHE SCOURCES Inc. (505) 326-7099 APAGENEMENT APACHE 9. API WELL NO. 30-033 APACHE P. API WELL NO. 30-033 10 FIELD, APD BPL SOUTH BPL 1450' FSL & 1190' FWL MILTIPLE 10 APAGENEMENT 10 APAGENEMENT SOUTH BPL 11. SEC., T., R. M., O AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* W of Lindrith, NM APACHE 12. COUNTY OR PARIE RIO AFFINA RIO AFFINA III. SEC., T., R. M., O AND SUBVEYE OR APACHES ABSIGNED TO THIS WELL TO THIS WELL TO THIS WELL 17. NO. OF ACRES ABSIGNED TO THIS WELL TO THIS WELL ROTAL PROPOSED LOCATION* 19. PROPOSED DEPTH TO THIS WELL 22. APPROX. DATE V DEC. 1, 1 PROPOSED CASING AND CEMENTING PROGRAM ORADE, SIZE OF CASING WEIGHT PER FOOT SETTING DEPTH QUANTITY OF CEM 7" (K-55) 20# 250' AUGUSTION QUANTITY OF CEM GRADE, SIZE OF CASING WEIGHT PER FOOT SETTING DEPTH QUANTITY OF CEM 7" (K-55) 20# 250' 260 CU ft

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any. Consultant (505) 466-8120 (This space for Federal or State office use) APPROVAL DATE Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

District I 1625 N. French Dr., Hobbs, NM 88240

811 South First, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico Energy, Minerals & Natural Resources

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

Form C-102 Revised March 17, 1994

Submit to Appropriate District Office State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

			VELL LC			REAGE DEDI	CATION PL.	AT		
36-034-3635 72439 SOUTH BLANCO PC										
Property 0	^{Code}	⁵ Property Name						* Well Number		
OGRID		Apache I								11"
149			•		Operate PLM RIDGE			İ	* Elevation	
7175'									7175'	
UL or lot no.	Section	Township	B	7		e Location				
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					.1430	. South	•1190	-We	est	Rio Arriba
		<u> </u>	11 Bo	tom Ho	ole Location	If Different Fro	m Surface	L	·	1
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West	line	County
12 Dedicated Acre	s ¹³ Joint	n 1-60 14	<u> </u>	0 1 1						
Dedicated Acre	S JOHN	or mu	Consolidation	Code	Order No.					
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Elm Ridge Resources, Inc. Apache I #11 1450' FSL & 1190' FWL Sec. 1, T. 23 N., R. 3 W. Rio Arriba County, New Mexico

Drilling Program

1. ESTIMATED FORMATION TOPS

Formation Name	<u>GL Depth</u>	KB Depth	Subsea Elevation
San Jose	000'	5'	+7,175'
Ojo Alamo Ss	2,569'	2,574'	+4,606'
Kirtland Shale	2,747'	2,752'	+4,428'
Pictured Cliffs Ss	2,961'	2,966'	+4,214'
Total Depth (TD)*	3,161'	3,166'	+4,014'

^{*} all elevations reflect the ungraded ground level of 7,175'

2. NOTABLE ZONES

Oil & Gas Zones	<u>Water Zones</u>	<u>Coal Zones</u>
Ojo Alamo (2,569')	San Jose (000') -	Kirtland (2,747')
Pictured Cliffs (2.961')	. ,	, ,

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



Elm Ridge Resources, Inc. Apache I #11 1450' FSL & 1190' FWL Sec. 1, T. 23 N., R. 3 W. Rio Arriba County, New Mexico

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>	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	3,161'

Surface casing will be cemented to surface with ≈ 60 cubic feet (≈ 153 sx) Class B + 1/4#/sk Flocele + 2% CaCl₂. Volume is based on 75% excess. Three centralizers will be run. Thread lock guide shoe and bottom of float collar.

Production casing will be cemented to the <u>surface</u> with 824 sx (≈698 cubic feet) Class B with 2% gel. Volume is based on 75% excess. A minimum of 10 centralizers will be used.

5. MUD PROGRAM

A 9 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.



PROVIDING PERMITS for LAND USERS

Elm Ridge Resources, Inc.
Apache I #11
1450' FSL & 1190' FWL
Sec. 1, T. 23 N., R. 3 W.
Rio Arriba County, New Mexico

ACCESS ROPUTE: -

