Form 3160-3 (July 1992)

SUBMIT IN TRIPLICATE. UNITED STATES

(Other instructions on reverse side)

FORM APPROVED

DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

OMB NO. 1004-0136 Expires: February 28, 1995 5. LEASE DESIGNATION AND SERIAL NO.

BIA #9

							6. IF INDIAN, ALLOTTER	00 00100
APPLICATION FOR PERMIT TO DRILL OR DEEPEN				Jicarilla				
TYPE OF WORK	DRILL 1	•	DEEPEN	\Box		-	7. UNIT AGREEMENT N	AMB
TYPE OF WELL			DELI EIV				/	N/A
WELL OIL	GAS WELL	OTHER			NGLE MULTIPI	LE U	8. FARM OR LEASE NAME, WEL	L NO.
NAME OF OPERAT		- 1		/ =	OE) 622 247	· c	Jic. Apache	A #14
ADDRESS AND TELEPHO	Resource	s, inc.		(3	05) 632-347	0	9. API WELL NO. 39.	-7741
		nington,	NM 8749	9		-	10. FIELD AND POOL, O	R WILDCAT
					state requirements.*)		Lindr. Gall-	-Dak. W
At surface	880	' FNL &	1956 FV	۷L			11. SEC., T., R., M., OR E AND SURVEY OR AR	LK.
At proposed pro	^{d. zone} Sam	ne					<i></i>	
DISTANCE IN M			AREST TOWN OR POS	T OFFIC			435-25n-51	NMPM
	s NE of				_		Rio Arriba	NM
. DISTANCE FROM	PROPOSED*			16. NO	O. OF ACRES IN LEASE		ACRES ASSIGNED	
PROPERTY OR L	EASE LINE, FT. Bt drlg. unit line	e, if any)	1,760'	2	,560	10 111	140 NW4-AD	8-320-
. DISTANCE FROM	PROPOSED LOCA			19. PI	OPOSED DEPTH	20. ROTARI	OR CABINE TOOLS	\ _ .
OR APPLIED FOR,	ON THIS LEASE, F	т.	100'	7	,500'			lotary
ELEVATIONS (She	ow whether DF,		837' ung	rade	d		July 25, 2002	
					CEMENTING PROGRAI			
		00000000000000000000000000000000000000			SETTING DEPTH	···	QUANTITY OF CEME	
12-1/4"	K-55	8-5/8"	24		350'		≈250 cu. ft. & t	
7-7/8"	J-55	4-1/2"	11.6		7.500'		≥3,450 cu. ft. & t	
			The State St		MAR 2003 MAR 2003 DIO DIV. 09 DIO T. 19 VI			00 H
(This space for PERMIT NO.	r Federal or Sta	ate office (186)	T	ITI.E	CC: BIA, BLM, Elr a on present productive zone cal depths. Give blowout preve Consultant (505) APPROVAL DATE.	466-812	20 DATE	6-1-02
Application approv								

*See Instructions On Reverse Side

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

1960 505 **□ AMENDE**D **RE**PORT

WELL LOCATION AND ACREAGE DEDICATION PLAT 39189 LINDRITH GALLUP DAKOTA WEST 30-039-27406 Well Number Property Name APACHE A 14 Bevation 149052 Operator Name 6837 ELM RIDGE RESOURCES Surface Location County UL or Lot Feet From> North/South Feet From> Sec. Twp. Rgo. Lot lan Eart/West C 35 25 N. 5 W. 880 NORTH 1956 WEST RIO ARRIBA Bottom Hole Location If Different From Surface Twp. Feet from> North/South UL or Lot Sec. Rga. Lot lon. Feet from> Eart/West County Dedication Order No. Joht ? Consolidation NO ALLOWABLE WILL ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DMISION OPERATOR CERTIFICATION .088 I hereby certify that the information Gallup contained herein is true and complete to the best of my knowledge and belief. 1956 Signature Printed NameBRIAN WOOD CONSULTANT Dakota Date JUNE 1, 2002 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 some is true and correct to the best of my belief. Date of Survey G4 HULDO 6844 ERED LAND

Elm Ridge Resources, Inc. Jicarilla Apache A #14 880' FNL & 1956' FWL Sec. 35, T. 25 N., R. 5 W. Rio Arriba County, New Mexico

Drilling Program

1. ESTIMATED FORMATION TOPS

Formation Name	<u>GL Depth</u>	KB Depth	<u>Elevation</u>
San Jose	000'	10'	+6,837'
Ojo Alamo Ss	2,137'	2,147'	+4,700'
Kirtland Fm	2,537'	2,547'	+4,300'
Fruitland Coal	2,637'	2,647'	+4,200'
Pictured Cliffs Ss	2,887'	2,897'	+3,950'
Lewis Sh	2,962'	2,972'	+3,875'
Chacra Ss	3,737'	3,747'	+3,100'
Cliff House Ss	4,437'	4,447'	+2,400'
Menefee	4,462'	4,472'	+2,375'
Point Lookout	5,087'	5,097'	+1,750'
Mancos Sh	5,287'	5,297'	+1,550'
Gallup Ss	6,237'	6,247'	+600'
Sanostee Ss	6,687'	6,697'	+150'
Green Horn	6,987'	6,997'	-150'
Graneros	7,037'	7,047'	-200'
Dakota Ss	7,087'	7,097'	-250'
Total Depth (TD)*	7,500'	7,510'	-663'

^{*} all elevations reflect the ungraded ground level of 6,837'

2. NOTABLE ZONES

Mancos

Oil & Gas Zones	Water Zones	<u>Coal Zone</u>
Ojo Alamo	San Jose	Fruitland
Fruitland	Ojo Alamo	
Pictured Cliffs	Fruitland	
Chacra		



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Surface casing will be cemented to the surface with ~250 cubic feet (~250 sacks) Class B with 1/4#/sk Flocele + 2% CaCl2. Volume is based on 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 in 2 stages with a stage tool set at \approx 5,000°. First stage volume will be \approx 1,450 cubic feet consisting of \approx 355 sacks Halliburton Lite with 1/4 pound per sack Flocele followed by \approx 655 sacks Class B with 2% CaCl₂. Second stage volume will be \approx 2,000 cubic feet consisting of \approx 1,085 sacks of Halliburton Lite with 2% CaCl₂ followed by \approx 50 sacks Class B with 2% CaCl₂ to cover the Mesa Verde, Pictured Cliffs, and Ojo Alamo. Volume is based on 75% excess, but a caliper log will be used to determine actual volumes needed. Centralizers will be installed on the middle of the shoe joint and on every joint thereafter for a total of \approx 32 centralizers. Thread lock the guide shoe, bottom of float collar, and bottom of stage tool only. Use API casing dope.

5. MUD PROGRAM

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

Sufficient material to maintain mud properties, control lost circulation, and contain a blowout will be available 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.



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<u>Qil & Gas Zones</u> Gallup Sanostee Dakota

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. The \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"	11.6	1-55	1 T & C	New	7.500'

