FEB 0 6 2006 FORM APPROVED Form 3160-3 OMB No. 1004-0137 Expires March 31, 2007 (April 2004) Juices of Lame mailagement UNITED STATES DEPARTMENT OF THE INTERIOR mington Field Office Lease Serial No. **BIA CONTRACT 78** BUREAU OF LAND MANAGEMENT If Indian, Allotee or Tribe Name APPLICATION FOR PERMIT TO DRILL OR REENTER JICARILLA APACHE NATION 7. If Unit or CA Agreement, Name and No. **✓** DRILL REENTER la. Type of work: 8. Lease Name and Well No. Oil Well Gas Well ✓ Single Zone Multiple Zone lb. Type of Well: JICARILLA 78 PC #1 Name of Operator 9. API Well No. ELM RIDGE EXPLORATION COMPANY, LLC 30-039- 2 3a. Address P.O. BOX 156 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory **BLOOMFIELD, NM 87413** (505) 632-3476 **BALLARD PICTURED CLIFFS** 4. Location of Well (Report location clearly and in accordance with any State requirements.*) 11. Sec., T. R. M. or Blk. and Survey or Area 700' FSL & 1190' FWL M 12-23N-5W NMPM At proposed prod. zone SAME 12. County or Parish 13. State 14. Distance in miles and direction from nearest town or post office* 7 AIR MILES NE OF COUNSELOR, NM RIO ARRIBA NM 15. Distance from proposed* 17. Spacing Unit dedicated to this well 16. No. of acres in lease location to nearest property or lease line, ft. SW4 2,560 (Also to nearest drig. unit line, if any) 4,090 20. BLM/BIA Bond No. on file 18. Distance from proposed location* to nearest well, drilling, completed, 19. Proposed Depth 2,500' **BIA NATION WIDE 886441C** 2,199' (#4) applied for, on this lease, ft. 22 Approximate date work will start* 23. Estimated duration Elevations (Show whether DF, KDB, RT, GL, etc.) 6,803' GL 04/15/2006 3 WEEKS 24. Attachments RCVD MAR 29'11 The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form: OIL CONS. DIV. 1. Well plat certified by a registered surveyor. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). 2. A Drilling Plan. DIST. 3 3. A Surface Use Plan (if the location is on National Forest System Lands, the Operator certification SUPO shall be filed with the appropriate Forest Service Office). Such other site specific information and/or plans as may be required by the

		1		<i>1</i>			
25. Signature	12	to	arl		Name (Printed/Typed) BRIAN WOOD		Date 02/04/2006
itle	CONSULTAI	NT /4.4	/		PHONE: (505) 466-8120	FAX: (505) 466-9682	
approved by (\$	ignature)	Man	Kie	WO.	Name (Printed/Typed)		Date 3/7/1
itle	7/	A	FM		Office FFO		
application app	proval does not	warrant or cer	ify that the a	pplicant holds lega	al or equitable title to those rights	n the subject lease which would	entitle the applicant to

conduct operations thereon.

Conditions of approval, if any, are attached

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*(Instructions on page 2)

5.9 Compliance HOLD COM FOR

BLM'S APPROVAL OR ACCEPTANCE OF THIS ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS

A COMPLETE C-144 MUST BE SUBMITTED TO AND APPROVED BY THE NMOCD FOR: A PIT, CLOSED LOOP SYSTEM, BELOW GRADE TANK, OR PROPOSED ALTERNATIVE METHOD, PURSUANT TO NMOCD PART 19.15.17, PRIOR TO THE USE OR CONSTRUCTION OF THE ABOVE APPLICATIONS.

APR 0 7 2011



District I PO Box 1980, Hobbs, NM 88241-1980

District II PO Drawer DD, Antesia, NM 88211-0719

District III 1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised February 21, 1994 Instructions on back Submit to Appropriate District Office State Lease – 4 Copies Fee Lease – 3 Copies

Certificate Number

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

MENDED REPORT

	API Numbe	r	WLLL	*Pool Cod		AUI	REAGE DEDI	LUAI	Pool Name			
30-039-29791 714			39		BALLARD	PIC	TURED	CLIFFS				
*Property						erty 1					Well Number	
OGRID	No.		•				A 78 PC				• 1	
14905	2		. EL	*Operator Name ELM RIDGE EXPLORATION COMPANY, LLO				_C. 6		6803		
	l				¹⁰ Surfac	ce L	ocation					
or lot no.	Section 12	Township 23N	Range 5W	Lot Idn	Feet from 1	the	North/South line SOUTH	Į	t from the	East/West line WEST	County RIO ARRIBA	
		11 B	ottom	Hole L	ocation	If	Different	Fro	m Surf	ace		
or lot no.	Sect ion	Тонпяпір	Pange	Lot Idn	Feet from	the	North/South line	Fee	t from the	East/West line	County	
edicated Acres					¹³ Joint or Inf	ill 14	Consolidation Code	¹⁵ Onder	· No.			
	160	0.0 Acre	s - (S	W/4)								
				12-				5280.00	I hereby shown on notes of my superv and corre	Name CC	well location otted from field ade by me or und he same is true f my belief.	
	AT: 36.2. DNG: 107. DATUM: N	317871 W								15269 For PESSI	WARDS	

5270.10

Drilling Program

1. ESTIMATED FORMATION TOPS

Formation Name	<u>GL Depth</u>	KB Depth	Elevation
San Jose	000'	5'	+6,803'
Ojo Alamo Ss	1,803'	1,808'	+5,000'
Kirtland Shale	2,103'	2,108'	+4,700'
Pictured Cliffs Ss	2,303'	2,308'	+4,500'
Total Depth (TD)*	2,500'	2,505'	+4,303'

2. NOTABLE ZONES

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

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 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

<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"	23	K-55	ST&C	New	250'
6-3/4"	4-1/2"	10.5	J-55	17 & C	New	2,400'
				6 \		

Surface casing will be cemented to the surface with ≈ 70 cubic feet (≈ 60 sacks) Class B with 1/4#/sk Flocele + 2% CaCl₂. Yield = 1.18 cubic feet per sack. Weight = 15.2 pounds per gallon. Volume = 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.

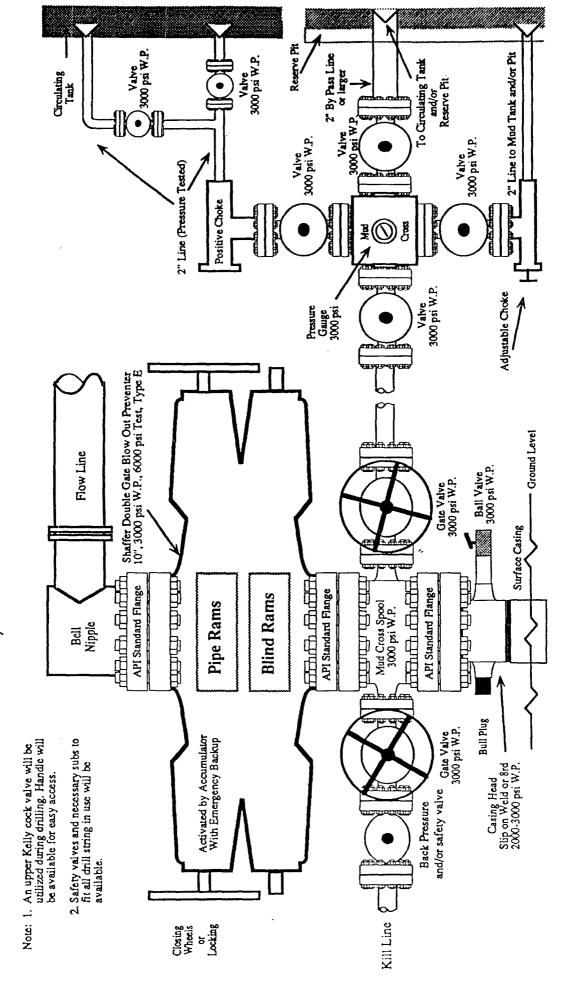
Production casing will be cemented to the surface with ≈ 615 cubic feet (≈ 521 sacks) Class B with 1/4#/sk Flocele + 2% CaCl₂. Yield = 1.18 cubic feet per sack. Weight = 15.2 pounds per gallon. Volume = 75% excess. At least six centralizers will be used.

5. MUD PROGRAM

A nine 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.



2,000 PSI BOP SYSTEM



Note: This equipment is designed to meet requirements for a 2-M rating standard per 43 CFR part 3160 (amended). Proper operation and testing of equipment will be carried out per standard. 2,000 psi equipment can be substituted in the drawing to meet minimum requirements per standard.

6. CORES, TESTS, & LOGS

No cores or drill stem tests are planned. DIL/GR log may be run from TD to surface. CNL/FSC log may be run over certain intervals.

7. DOWN HOLE CONDITIONS

No abnormal pressures, temperatures, nor hydrogen sulfide are expected. Maximum expected bottom hole pressure will be $\leq 1,000$ psi.

8. OTHER INFORMATION

The anticipated spud date is upon approval. It is expected it will take <1 week to drill and ≈2 weeks to complete the well.



Surface Use Plan

1. <u>DIRECTIONS & EXISTING ROADS</u> (See PAGES 10 & 11)

From the equivalent of Mile Post 90.5 on US 550 ... Go North 3.9 miles on J-6
Then turn right onto a two track and go East 2,815.5' to the proposed pad

Roads will be maintained to at least equal to their present condition.

2. ROAD TO BE BUILT OR UPGRADED

The final 2,815.5' of access will be crowned and ditched with a 14' wide running surface. Maximum disturbed width will be $\approx 30'$. Borrow ditches will be turned out at least once every ≈ 100 yards on each side. The ditch turnouts will be skewed to drain. Maximum cut or fill = 2'. Maximum grade = 6%. No vehicle turn out is needed. No culvert, gate, or upgrade is needed.

3. EXISTING WELLS (See PAGE 11)

There are four gas or oil wells and one plugged and abandoned well within a one mile radius according to Oil Conservation Division and State Engineer's records. There are no water or injection wells within a mile.

4. PROPOSED PRODUCTION FACILITIES (See PAGES 11 - 13)

Production facilities may include a separator, dehydrator, meter run, and ≈ 210 bbl tank. All equipment will be painted a flat juniper green. A SDR-11 polyethylene ≈ 4 " O. D. gas pipeline will be laid 2,815.5' west along the

