

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

2006 JAN 18 PM 1 51

RECEIVED

FORM APPROVED
OMB No. 1004-0137
Expires March 31, 2007

APPLICATION FOR PERMIT TO DRILL OR REENTER

UIC FARMINGTON NM

5. Lease Serial No.
BIA CONTRACT 77
6. If Indian, Allottee or Tribe Name
JICARILLA APACHE NATION

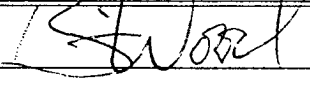
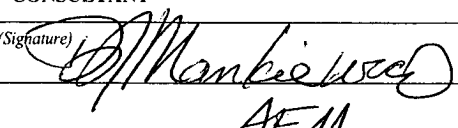
RCVD OCT 25 '10
OIL CONVS. DIV.
DIST. 3

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		7. If Unit or CA Agreement, Name and No. N/A	
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		8. Lease Name and Well No. JICARILLA 77 PC #2	
2. Name of Operator ELM RIDGE EXPLORATION COMPANY, LLC		9. API Well No. 30-039- 29760	
3a. Address P. O. BOX 156 BLOOMFIELD, NM 87413	3b. Phone No. (include area code) (505) 632-3476	10. Field and Pool, or Exploratory BALLARD PICTURED CLIFFS	
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface 990' FNL & 895' FWL At proposed prod. zone SAME		11. Sec., T. R. M. or Blk. and Survey or Area D 16-23N-5W NMPM	
14. Distance in miles and direction from nearest town or post office* 5 AIR MILES NE OF COUNSELOR, NM		12. County or Parish RIO ARRIBA	13. State NM
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 895'	16. No. of acres in lease 2,560	17. Spacing Unit dedicated to this well NW4	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 2,132'	19. Proposed Depth 2,300'	20. BLM/BIA Bond No. on file BIA NATION WIDE 886441C	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6,679' GL	22. Approximate date work will start* 03/15/2006	23. Estimated duration 3 WEEKS	

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

- | | |
|---|--|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature 	Name (Printed/Typed) BRIAN WOOD	Date 01/12/2006
Title CONSULTANT		
PHONE: (505) 466-8120 FAX: (505) 466-9682		
Approved by (Signature) 	Name (Printed/Typed) AFM	Date 10/20/0
Title AFM		

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, 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)

~~HOLD COPY FOR~~ **5.9 Compliance**

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
JUN 18 PM 1 51

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

RECEIVED
070 FARMINGTON NM

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30039-29760		*Pool Code 71439	*Pool Name BALLARD PICTURED CLIFFS
*Property Code 38391	*Property Name JICARILLA 77 PC		*Well Number 2
*OGRID No. 149052	*Operator Name ELM RIDGE EXPLORATION COMPANY, LLC.		*Elevation 6679'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	16	23N	5W		990	NORTH	895	WEST	RIO ARriba

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
¹² Dedicated Acres 160.0 Acres - (NW/4)					¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.		

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<p>LAT: 36.229198°N LONG: 107.372016°W DATUM: NAD1927</p>	<p>¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p> <p>Signature BRIAN WOOD</p> <p>Printed Name CONSULTANT</p> <p>Title JAN. 12, 2006</p> <p>Date</p>
	<p>¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my belief.</p> <p>Date of Survey: JUNE 15, 2005</p> <p>Signature and Seal of Professional Surveyor</p> <p> JASON C. EDWARDS Certificate Number 15269</p>

Elm Ridge Exploration Company, LLC
Jicarilla 77 PC #2
990' FNL & 895' FWL
Sec. 16, T. 23 N., R. 5 W.
Rio Arriba County, New Mexico

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Drilling Program

1. ESTIMATED FORMATION TOPS

<u>Formation Name</u>	<u>GL Depth</u>	<u>KB Depth</u>	<u>Elevation</u>
San Jose	0'	5'	+6,679'
Ojo Alamo Ss	1,529'	1,534'	+5,150'
Kirtland Shale	1,729'	1,734'	+4,950'
Pictured Cliffs Ss	2,059'	2,064'	+4,620'
Total Depth (TD)*	2,300'	2,305'	+4379'

2. NOTABLE ZONES

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

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.

Elm Ridge Exploration Company, LLC
Jicarilla 77 PC #2
990' FNL & 895' FWL
Sec. 16, T. 23 N., R. 5 W.
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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>	<u>Weight (lb/ft)</u>	<u>Grade</u>	<u>Type</u>	<u>Age</u>	<u>GL Setting Depth</u>
8-5/8"	7"	23	K-55	S T & C	New	250'
6-3/4"	4-1/2"	10.5	J-55	L T & C	New	2,300'

Surface casing will be cemented to the surface with ≈ 70 cubic feet (≈ 60 sacks) Class B with 1/4#/sk Flocele + 2% CaCl_2 . 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 ≈ 565 cubic feet (≈ 479 sacks) Class B with 1/4#/sk Flocele + 2% CaCl_2 . 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.

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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.

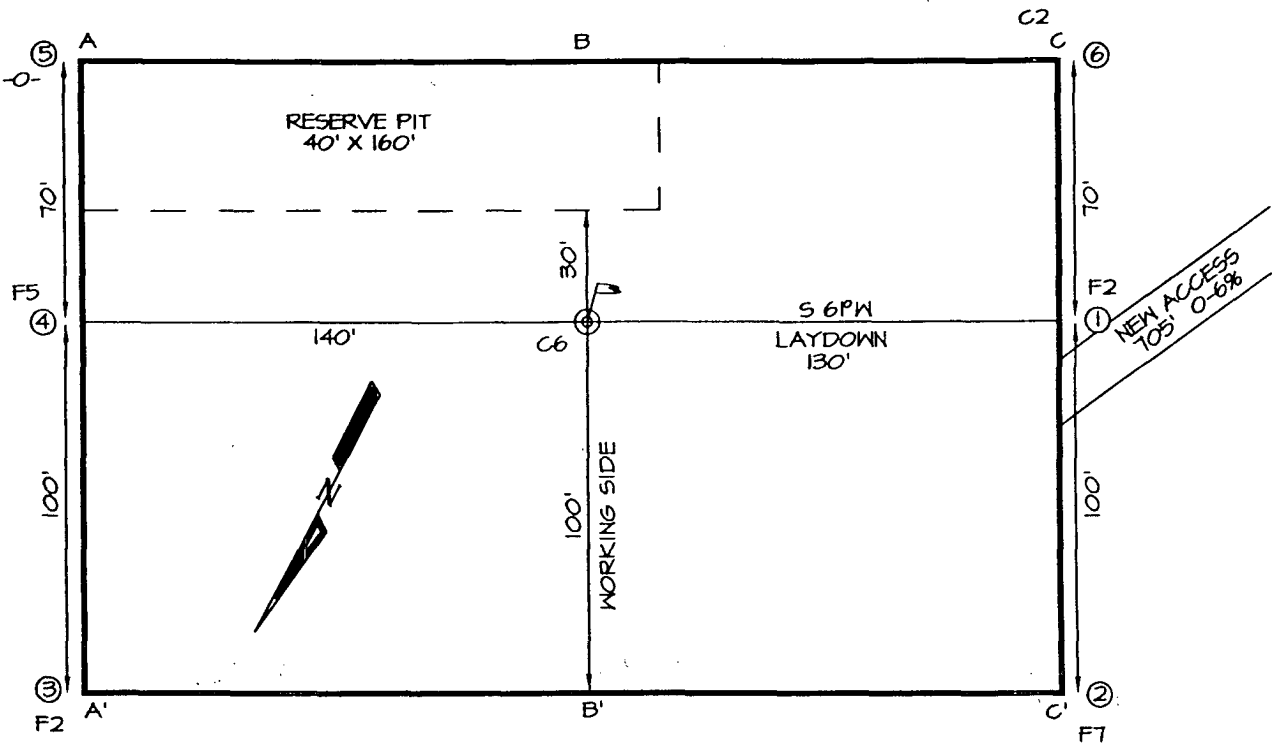
7. DOWN HOLE CONDITIONS

No abnormal pressures, temperatures, nor hydrogen sulfide are expected. Maximum expected bottom hole pressure will be ≤ 920 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.

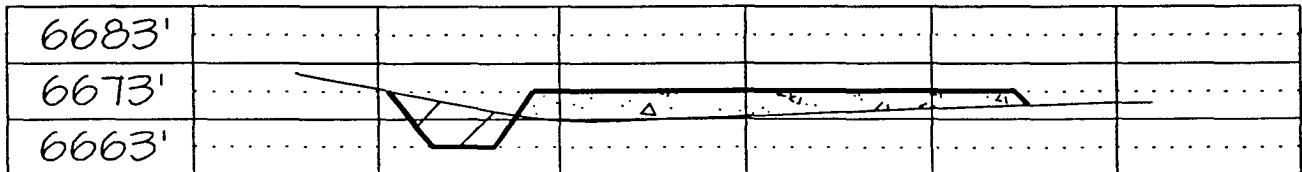
ELM RIDGE EXPLORATION COMPANY, LLC: JICARILLA 77 PC #2
990' FNL & 895' FWL, SECTION 16, T23N, R5W, NMPM
RIO ARriba COUNTY, NEW MEXICO ELEVATION: 6679'



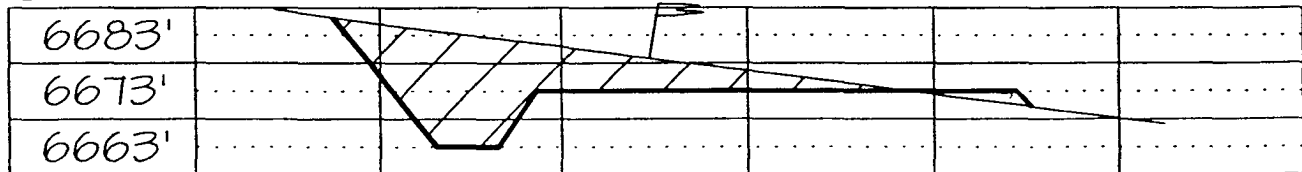
LATITUDE: 36.22920°
LONGITUDE: 107.37201°
 DATUM: NAD1927

NOTE:
 BEFORE ANY CONSTRUCTION BEGINS,
 CONTRACTOR IS ADVISED TO CALL
 ONE-CALL FOR LOCATION OF ANY
 MARKED OR UNMARKED PIPELINES OR
 CABLES IN THE AREA OF THIS PROJECT.

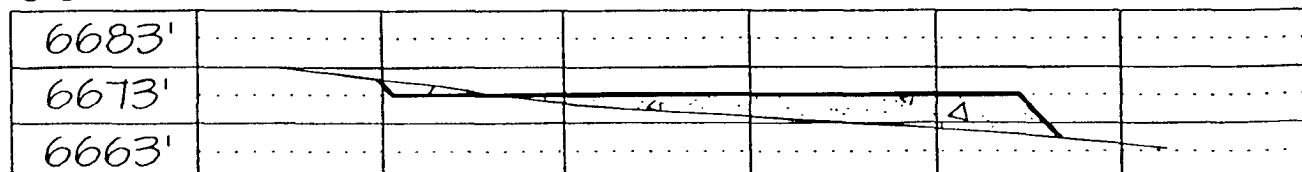
A-A'



B-B'



C-C'



DATE DRAWN: 7/15/05

FILENAME: ELMO20CF

DRAWN BY: KER

CHECKED BY: JCE

Note:

1. An upper Kelly cock valve will be utilized during drilling. Handle will be available for easy access.
2. Safety valves and necessary subs to fit all drill string in use will be available.

