Form 3160-3 (April 2004)

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

UNITED STATES

OCT 1 6 2007

If Indian, Allotee or Tribe Name

DEPARTMENT OF THE INTERIOR,	
BUREAU OF LAND MANAGEMENT Framington Field Office	mt
Faminaton Field Office	6
ION FOR REDMIT TO DOUL OF REENTED" "ON OWN	٠.

Lease Serial No. NMSF-078362

APPLICATION FOR PERIVIT TO	N/A RCVD MOV 13 '07				
1a. Type of work: DRILL REENTER			7 If Unit or CA Agreement, Name and No. N/A GIL COMS. DIV.		
b. Type of Well: ✓ Oil Well Gas Well Other ✓ Single Zone Multiple Zone			8. Lease Name and Well No. MARCUS B #2DIST. 3		
2. Name of Operator ELM RIDGE EXPLORATION COM	MPANY, LLC		9 API Well No. 30-039- 304	10Z	
3a. Address P. O. BOX 156 BLOOMFIELD, NM 87413 3b. Phone No. (include area code) (505) 632-3476			10. Field and Pool, or Exploratory ESCRITO GALLUP (ASSOC.)		
4. Location of Well (Report location clearly and in accordance with At surface 1735' FNL & 2175' FEL At proposed prod. zone SAME	arry State requirements.*)		11. Sec., T. R. M. or B 5-23N-6W NM	•	
Distance in miles and direction from nearest town or post office* 4 AIR MILES NE OF LYBROOK			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) 905'	16. No. of acres in lease 2,530.32	_	ng Unit dedicated to this well 2 & SWNE (= 80.04 acres)		
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 880' (A #12)	19. Proposed Depth 20. BLM/BIA Bond No. on file 5,800' BLM STATE WIDE 886			01C	
Elevations (Show whether DF, KDB, RT, GL, etc.) 6,871' GL	22. Approximate date work will sta 12/01/2007	nrt*	23. Estimated duratio 3 WEEKS	n	
	24. Attachments				
The following, completed in accordance with the requirements of One	shore Oil and Gas Order No.1, shall be a	attached to th	is form:		
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest Syst SUPO shall be filed with the appropriate Forest Service Office). 	Item 20 above). Em Lands, the 5. Operator certifi	cation specific inf	·	existing bond on file (see	
25. Signature	Name (Printed/Typed) BRIAN WOOD			Date 10/15/2007	
Fitle CONSULTANT	PHONE: (505) 466-8120	FA	X: (505) 466-9682		
Approved by (Signature)	Name (Printed/Typed)	٠,		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, are attached

Office

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)

NOTIFY AZTEC OCD 24 HRS. PRIOR TO CASING & CEMENT HOLD C104 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

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

This action is subject to technical and procedural review pursuant to 43 CFR 3165 9 and appeal pursuant to 43 CFR 3165 4

DISTRICT II 1301 W. Grand Avenue, Artesia, N.M. 88210

1220 S. St. Francis Dr., Santa Fe, NM 87505

DISTRICT III 1000 Rio Brazos Rd., Aztec, N.M. 87410 OIL CONSERVATION DIVISION 1220 South St. Francis Dr.

OCT 1 6 2007

Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

Santa Fe. NM 87505

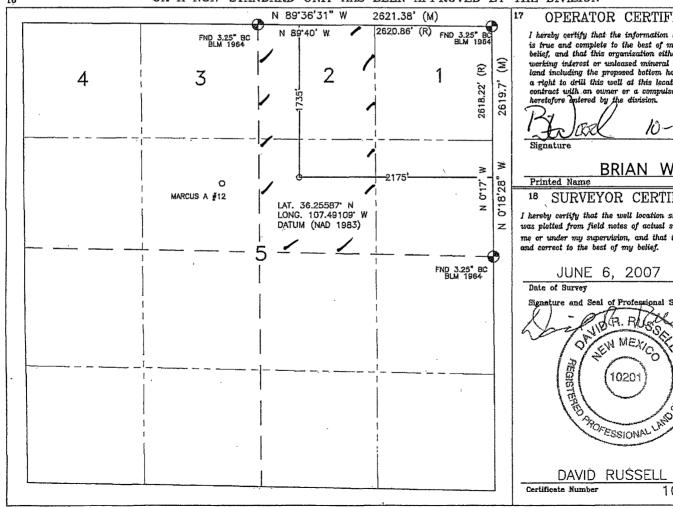
Bureau or Land Management AMENDED REPORT

Famington Field Office WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number		² Pool Code	³ Pool Name			······································
30-039-30	405	22619	ESCRITO	GALLUP	(ASS	OCIATED)
⁴ Property Code		⁶ Pr	operty Name			⁸ Well Number
. 36835	-	M	ARCUS B			. 2
OGRID No.		⁶ Op	erator Name			⁶ Elevation
149052		ELM RIDGE	EXPLORATION, LLC			6871'

¹⁰ Surface Location UL or lot no. Feet from the North/South line Section Township Range Lot Idn Feet from the East/West line County 5 6W 1735 G 23N **NORTH** 2175 EAST RIO ARRIBA Bottom Hole Location If Different From Surface UL or lot no. Lot Idn Feet from the North/South line Feet from the Section Township Range East/West line County ¹² Dedicated Acres 15 Joint or Infill 14 Consolidation Code 15 Order No. 80.04

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



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this argunization either owns a working interest or unleased mineral interest in the and including the proposed bottom hale location or has a right to drill this well at this location pursuant to a contract with an owner or a compulsory pooling order heretofore entered by the division.

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.

EN MENO SURVEY

DAVID RUŠSELI

10201

Submit 3 Copies To Appropriate District Office	State of New Mexico Energy, Minerals and Natural Resources		Form C-103 May 27, 2004		
<u>District I</u> 1625 N French Dr , Hobbs, NM 88240	Energy, Ministrals and Natural Resources		WELL API NO.		
<u>District II</u> 1301 W Grand Ave., Artesia, NM 88210	OIL CONSERVATION DIVISION		30-039- 30 40 2 5. Indicate Type of Lease		
<u>District III</u> 1000 Rio Brazos Rd , Aztec, NM 87410	1220 South St. Francis Dr.		STATE FEE		
District IV	Santa Fe, NM	87505	6. State Oil & Gas Lease No.		
1220 S St Francis Dr, Santa Fe, NM 87505			NMSF-078362		
		PLUG BACK TO A	7. Lease Name or Unit Agreeme	ent Name	
PROPOSALS)		,	MARCUS B 8. Well Number 2		
1. Type of Well: Oil Well Gas 2. Name of Operator	Well U Other		9. OGRID Number 149052		
ELM RIDGE EXPLORATION COME	ANY, LLC		9. OGKID Nulliber 149032		
3. Address of Operator P. O. BOX 156, BLOOMFIELD, NM			10. Pool name or Wildcat ESCRITO GALLUP (ASSOCIA	TED)	
4. Well Location					
Unit Letter: G	1735' FNL & 2175	5' FEL			
Section 5	Township 23 North	Range 6 West		County	
E 3/4	1. Elevation (Show whether L	OR, RKB, RT, GR, etc.)		30	
Pit type: DRILLING Depth to Groundwater:		water well: >1.000' Distar	ice from nearest surface water: >50'	-	
	le Tank: Volume	bbls; Construction Ma			
	· ·				
12. Check	Appropriate box to mut	cate Nature of Noti	ce, Report or Other Data		
NOTICE OF INTE			SEQUENT_REPORT OF:		
	PLUG AND ABANDON	REMEDIAL WOR		ASING □	
	CHANGE PLANS MULTIPLE COMPL	COMMENCE DRI	<u>===</u>	اسا	
FOLL OR ALTER CASING I	NOLTIFLE COMPL /	/ CASING/CEIVIEN			
OTHER: DRILLING PIT		OTHER:			
 Describe proposed or complete starting any proposed work). 			give pertinent dates, including esti wellbore diagram of proposed cor		
recompletion.	•	•		·	
		,			
		,		-	
				4	
`					
		/			
I hereby certify that the information abo has been/will be constructed or closed according	ve is true and complete to the	best of my knowledge	and belief. I further certify that any placed) alternative OCD-approved plan	pit or below-grade tank	
SIGNATURE / July		CONSULTANT	DATE: OCTOBER 15, 20		
Type or print name: BRIAN WOOD For State Use Only	E-mail address: brian@	permitswest.com	Telephone No.: (505) 466-8	3120	
L. State OSC OMY	An	Deputy Oil s	& Gas Inchasta MOV	9 ∩ 2007°	
APPROVED BY: Conditions of Approval (if any):	TITLE	Dis	& Gas Inspector _E NOV	<u>~ U 2001</u>	

Elm Ridge Exploration Company, LLC Marcus B #2 1735' FNL & 2175' FEL Sec. 5, T. 23 N., R. 6 W. Rio Arriba County, New Mexico

Drilling Program

1. ESTIMATED FORMATION TOPS

<u>Formation</u>	<u>GL Depth</u>	<u>KB Depth</u>	<u>Elevation</u>
San Jose	0'	~ 12'	+6,871'
Ojo Alamo Sandstone	1,531'	1,543'	+5,340'
Kirtland Shale	1,671'	1,683'	+5,200'
Fruitland	1,956'	1,968'	+4,915'
Pictured Cliffs Sandstone	2,016'	2,028'	+4,855'
Lewis Shale	2,216'	2,228'	+4,655'
Chacra	2,636'	2,648'	+4,235'
Menefee Shale	3,126'	3,138'	+3,745'
Point Lookout Sandstone	4,366	4,378'	+2,505'
Mancos Shale	4,526'	4,528'	+2,345'
Gallup Sandstone	5,506'	5,518'	+1,635'
Total Depth	5,800'	5,812'	+1,071'

2. NOTABLE ZONES

Oil &/or Gas Zones	Water Zones	<u>Coal Zone</u>
Fruitland	Nacimiento	Fruitland
Pictured Cliffs	Fruitland .	
Gallup	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.



Elm Ridge Exploration Company, LLC Marcus B #2 1735' FNL & 2175' FEL Sec. 5, T. 23 N., R. 6 W. Rio Arriba County, New Mexico

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.

A \geq 2,000 psi BOP and choke manifold system will be installed and tested to \approx 2,000 psi before drilling the 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

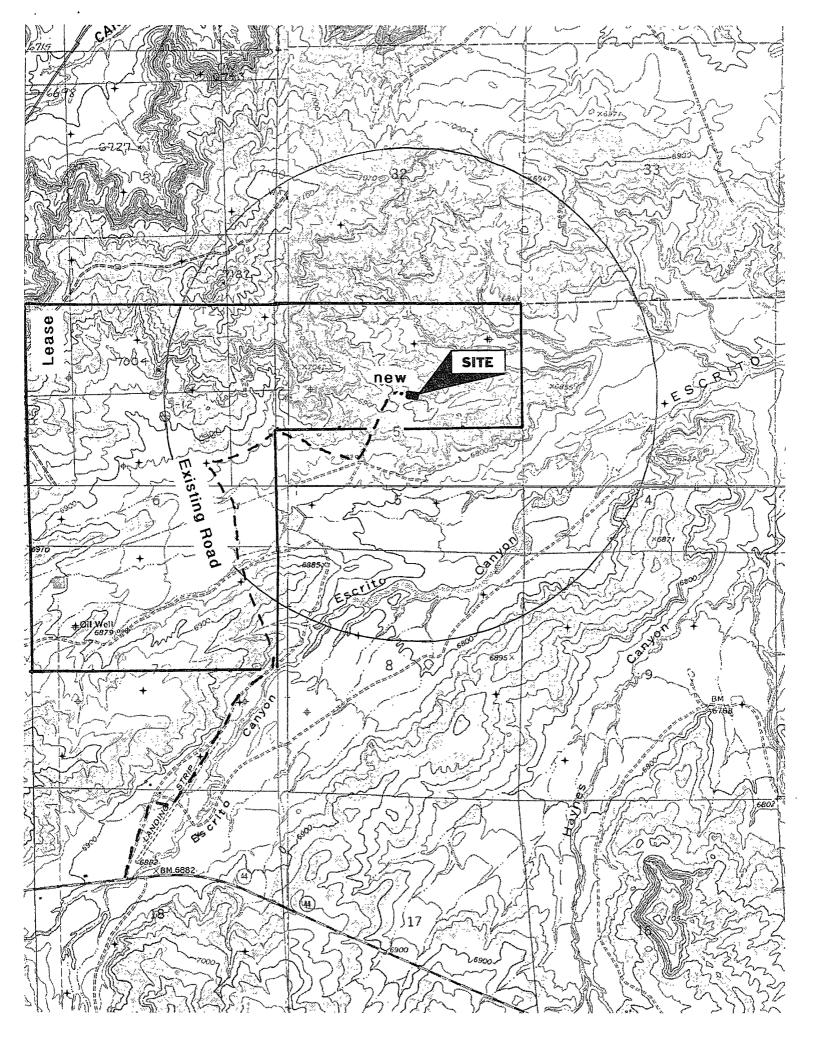
Hole Size	<u>O. D.</u>	Pounds/Foot	<u>Grade</u>	<u>Type</u>	<u>Age</u>	Depth Set
12-1/4"	8-5/8"	24	J-55 or K-55	ST&C	New	350'
7-7/8"	5-1/2"	10.5	J-55	LT&C	New	5,800'
		15.5				•

Surface casing will be cemented to the surface with ≈ 290 cubic feet (≈ 245 sacks) Class B with 1/4 pound per sack cellophane + 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.

joint

Production casing will be cemented to the surface in 2 stages with a stage tool set @ $\approx 3,800$ '. Centralizers will be installed on the middle of the shoe joint and on every joint thereafter (≥ 2 dozen centralizers). Thread lock the guide shoe, bottom of float collar, and bottom of stage tool only. Use API casing dope.

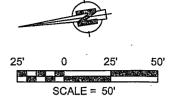


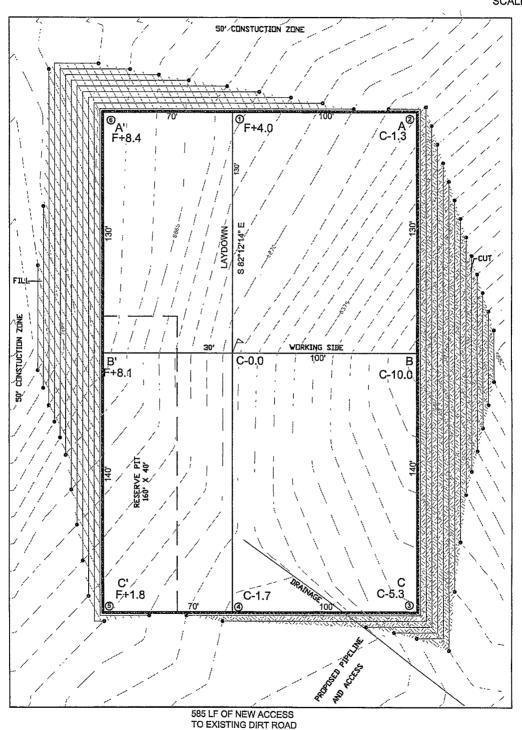


LATITUDE: 36.25587°N LONGITUDE: 107.49109°W DATUM: NAD 83

ELM RIDGE EXPLORATION, LLC

MARCUS B #2
1735' FNL & 2175' FEL
LOCATED IN THE SW/4 NE/4 OF SECTION 5,
T23N, R6W, N.M.P.M.,
RIO ARRIBA COUNTY, NEW MEXICO
GROUND ELEVATION: 6871', NAVD 88
FINISHED PAD ELEVATION: 6870.6', NAVD 88





1 FOOT CONTOUR INTERVAL SHOWN

SCALE: 1" = 50' JOB No.: ERE016 DATE: 06/14/07

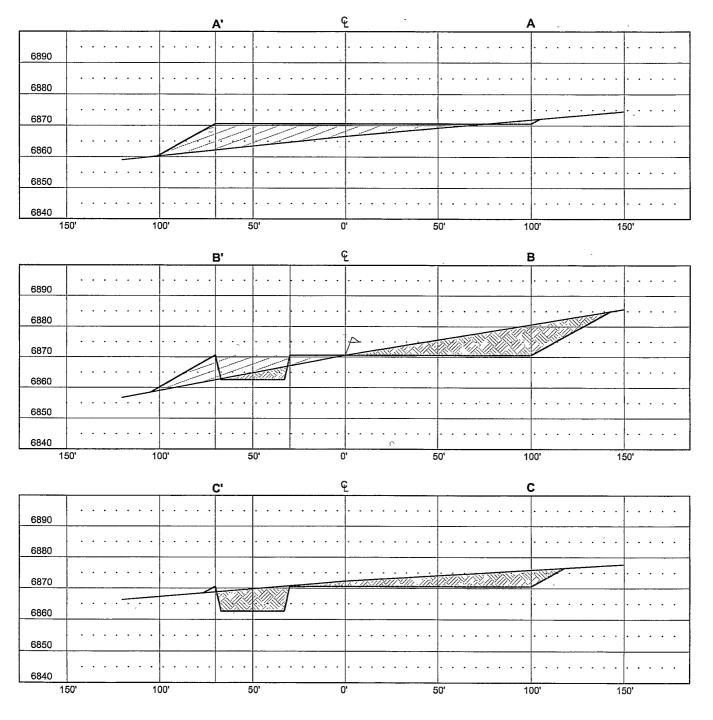


Russell Surveying 1409 W. Aztec Blvd. #2 Aztec, New Mexico 87410 (505) 334-8637

ELM RIDGE EXPLORATION, LLC

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1735' FNL & 2175' FEL
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GROUND ELEVATION: 6871', NAVD 88

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FINISHED PAD ELEVATION: 6870.6', NAVD 88



VERT. SCALE: 1" = 30' HORZ. SCALE: 1" = 50' JOB No.: ERE016 DATE: 06/14/07



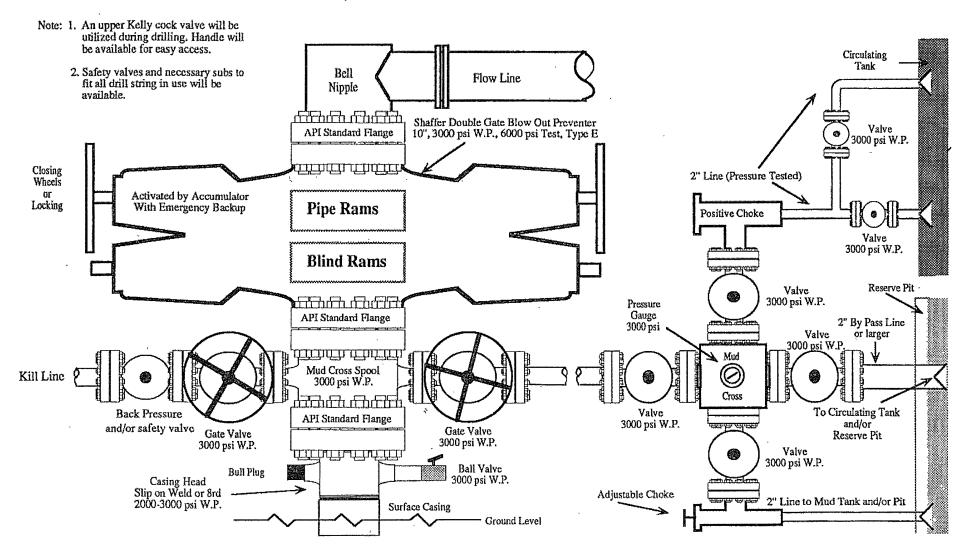
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2,000 PSI BOP SYSTEM



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.