UNITED STATES DEPARTME BUREAU

OMB3	No. 1004-0	137
Expires	Manop 31,	200
Lease Serial No.	/	7

FORM APPROVED

ENT OF THE INTERIOR	5.	Lease Serial No.
OF LAND MANAGEMENT		NMNM-1006

APPLICATION FOR PERMIT TO	DRILL OR REENTER		6. If Indian, Allotee or Trib	ne Name
la. Type of work: DRILL REENTE	R		7 If Unit or CA Agreement, N/A	Name and No.
lb. Type of Well: Oil Well Gas Well Other	Single Zone Multip	ole Zone	8. Lease Name and Well No CAMPOS 4 #4).
2. Name of Operator ELM RIDGE EXPLORATION COMP.	ANY, LLC		9. API Well No. 30-045-039-	30297
3a. Address P. O. BOX 156 BLOOMFIELD, NM 87413	3b. Phone No. (include area code) (505) 632-3476		10. Field and Pool, or Explora LYBROOK GALLU	tory
4. Location of Well (Report location clearly and in accordance with any At surface 2000' FSL & 800' FWL . At proposed prod. zone SAME	v State requirements.*)		11. Sec., T. R. M. or Blk. and S	Survey or Area
14. Distance in miles and direction from nearest town or post office* 2 AIR MILES NW 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) 800'	16. No. of acres in lease 606.45		g Unit dedicated to this well 9 (= 37.16 acres)	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1,869' (4 #2)	19. Proposed Depth 5,875'		BIA Bond No. on file STATE WIDE 886201C	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 7,189' GL	22. Approximate date work will star 08/30/2007	rt*	23. Estimated duration 3 WEEKS	
The fellowing around the control of	24. Attachments			
The following, completed in accordance with the requirements of Onshoron. 1. Well plat certified by a registered surveyor. 2. A Drilling Plan. 3. A Surface Use Plan (if the location is on National Forest System I SUPO shall be filed with the appropriate Forest Service Office).	4. Bond to cover the Item 20 above). Lands, the 5. Operator certific	ne operation ation specific info	ns unless covered by an existing	
25. Signature T2-()	Name (Printed/Typed)		Date	

BRIAN WOOD 07/16/2007 Title CONSULTANT PHONE: (505) 466-8120 FAX: (505) 466-9682 Approved by (Sign Name (Printed/Typed) Date Title Office

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.

Min: 1500 psc

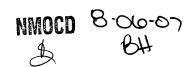
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*(Instructions on page 2)

NOTIFY AZTEC OCB 34 P PRIOR TO GASING & CEN

RCVD AUG3'07 OIL CONS. DIV.

DIST. 3



DISTRICT I 1625 N. French Dr., Hobbs, N.M. 88240

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised October 12, 2005

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

DISTRICT III 1000 Rio Brazos Rd., Aztec, N.M. 87410

OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

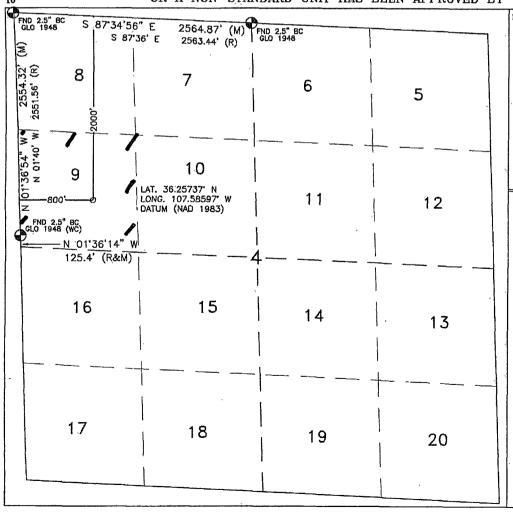
☐ AMENDED REPORT

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

	WELL LOCA	TION AND ACREAGE	DEDICATION PLAT	ľ
30-045-3	1-3091 422		BROOK GALLUP	Hallmhar
*Property Code		⁵ Property Name		⁶ Well Number
28962		CAMPOS 4		, 4
OGRID No.		Operator Name		° Elevation
149052	•	ELM RIDGE EXPLORATION,	LLC	71.89'

¹⁰ Surface Location UL or lot no. Lot Idn Feet from the North/South line Section Township Range Feet from the East/West line County E 23N 7W 2000' **NORTH** 4 9 800' WEST RIO ARRIBA 11 Bottom Hole Location If Different From Surface UL or lot no. Section North/South line Township Range Feet from the Feet from the East/West line County 18 Dedicated Acres ¹⁸ Joint or Infill 14 Consolidation Code 16 Order No. 37.16

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 organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner or a compulso heretofore entered by the division. pagling order

Signature

BRIAN WOOD

1.16-0

Date

Printed Name

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.

MAY 22, 2007

Date of Survey Signature and Seal of Professional Surveyor: NO R. RUSSEL WEXCO

STERNING TOPESSIONAL PROPERTY OF THE PROPERTY DAVID RUSSELL

Certificate Number

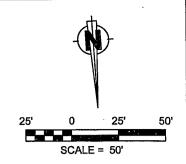
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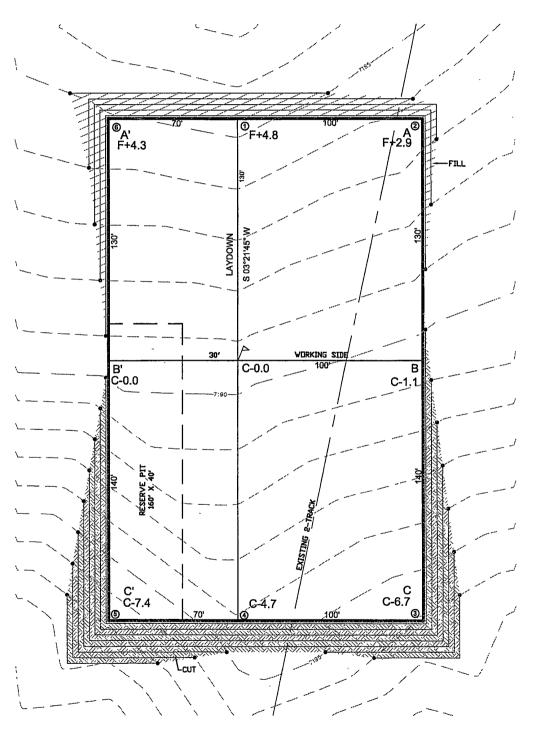
Submit 3 Copies To Appropriate District Office	State of New Me			rm C-103 Iay 27, 2004
<u>District I</u> 1625 N French Dr., Hobbs, NM 88240	Energy, Minerals and Natu	rai Resources	WELL API NO.	ay 27, 2004
District II	OIL CONSERVATION	DIVISION	30-039- 30297	
1301 W Grand Ave., Artesia, NM 88210 District III	1220 South St. Fran		5. Indicate Type of Lease	-, l
1000 Rio Brazos Rd, Aztec, NM 87410	Santa Fe, NM 87		STATE FEE 6. State Oil & Gas Lease No.	
<u>District IV</u> 1220 S St. Francis Dr., Santa Fe, NM 87505			NMNM-100602	
	CES AND REPORTS ON WELLS		7. Lease Name or Unit Agreemen	nt Name
(DO NOT USE THIS FORM FOR PROPOS DIFFERENT RESERVOIR USE "APPLIC			CAMPOS 4	
PROPOSALS.)	<u> </u>	,	8. Well Number 4	
	Gas Well Other		9. OGRID Number 149052	
2. Name of Operator ELM RIDGE EXPLORATION CO	MPANY, LLC			
3. Address of Operator P. O. BOX 156, BLOOMFIELD, N	M 87413		10. Pool name or Wildcat LYBROOK GALLUP	
4. Well Location				
Unit Letter: LOT 9	2000' FNL & 80	0' FWL		
Section 4	Township 23 North	Range 7 West		ounty
AF TO STATE OF THE	11. Elevation (Show whether DR, 7,189' GL	RKB, RT, GR, etc.)		
Pit or Below-grade Tank Application or				
Pit type: DRILLING Depth to Groundwa		ter well: <u>>1,000'</u> Distan	ice from nearest surface water: \$100'	
Pit Liner Thickness: 12 mil	Below-Grade Tank: Volume	bbls; Const	ruction Material	
12. Chec	k Appropriate Box to Indicat	e Nature of Noti	ce, Report or Other Data	
NOTICE OF IN	TENTION TO:	SUB	SEQUENT REPORT OF:	
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WOR		SING 🗆
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DRI	LLING OPNS.□ P AND A	
PULL OR ALTER CASING	MULTIPLE COMPL .	CASING/CEMEN	TJOB 🗌	
OTHER: DRILLING PIT	5 /	OTHER:		П
	eted operations. (Clearly state all p		give pertinent dates, including estin	nated date of
	. SEE RULE 1103. For Multiple C	Completions: Attach	wellbore diagram of proposed com	pletion or
recompletion.				
			•	
,				
				*
I hereby certify that the information a has been/will be constructed or closed account	bove is true and complete to the bearing to NMOCD guidelines [7], a general	st of my knowledge permit □ or an (attac	and belief. I further certify that any pi	t or below-grade tank
121/	20	. po 🗀 01 u.u (uvine	act, and many of the approved plan	
SIGNATURE	TITLE: CO	DNSULTANT	DATE: JULY 16, 2007	
Type or print name: BRIAN WOOD	E-mail address: brian@per	rmitswest.com	Telephone No.: (505) 466-81	.20
FOI State Use Unity	Λ De	eputy Oil & G	as Inspector.	
APPROVED BY:	TITLE_	Distric	DATE AUG 0	6 2007
Conditions of Approval (if any):	losk pit in accordance	W/ Rule 50. F.	1 for volaurable are	a dal
Type or print name: BRIAN WOOD For State Use Only APPROVED BY: Conditions of Approval (if any):	proximity to array o			

LATITUDE: 36.25737°N LONGITUDE: 107.58597°W DATUM: NAD 83

ELM RIDGE EXPLORATION, LLC

CAMPOS 4 #4
2000' FNL & 800' FWL
LOCATED IN THE SW/4 NW/4 OF SECTION 4,
T23N, R7W, N.M.P.M.,
RIO ARRIBA COUNTY, NEW MEXICO
GROUND ELEVATION: 7189', NAVD 88
FINISHED PAD ELEVATION: 7189.4', NAVD 88





1 FOOT CONTOUR INTERVAL SHOWN

SCALE: 1" = 50' JOB No.: ERE014 DATE: 06/04/07

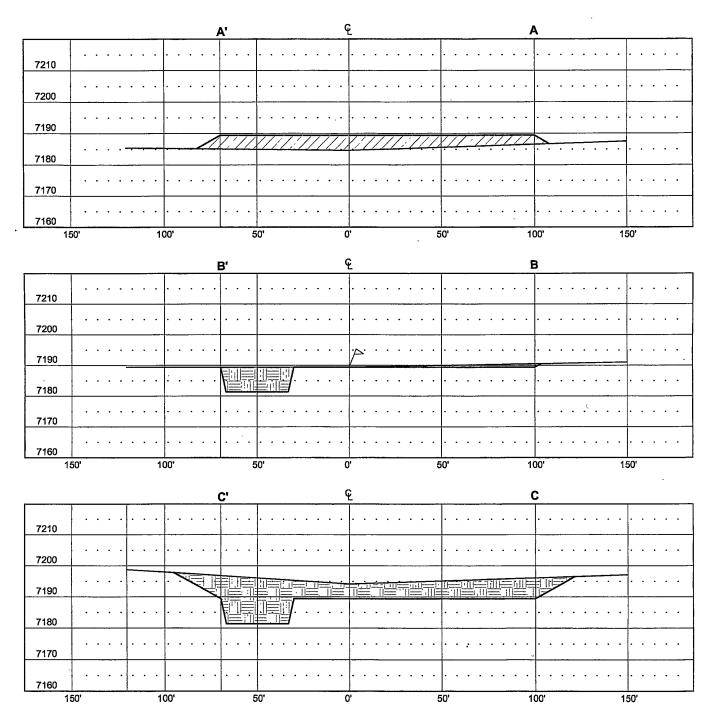


Russell Surveying 1409 W. Aztec Blvd. #2 Aztec, New Mexico 87410 (505) 334-8637

ELM RIDGE EXPLORATION, LLC

CAMPOS 4 #4
2000' FNL & 800' FWL
LOCATED IN THE SW/4 NW/4 OF SECTION 4,
T23N, R7W, N.M.P.M.,
RIO ARRIBA COUNTY, NEW MEXICO

GROUND ELEVATION: 7189', NAVD 88 FINISHED PAD ELEVATION: 7189.4', NAVD 88



VERT. SCALE: 1" = 30' HORZ. SCALE: 1" = 50' JOB No.: RRO001 DATE: 05/16/06



CUT





Russell Surveying 1409 W. Aztec Blvd. #2 Aztec, New Mexico 87410 (505) 334-8637 Campos 4 #4

2000' FNL & 800' FWL

Sec. 4, T. 23 N., R. 7 W.

Rio Arriba County, New Mexico

Drilling Program

1. ESTIMATED FORMATION TOPS

<u>GL Depth</u>	<u>KB Depth</u>	<u>Elevation</u>
0'	12'	+7,189'
1,559'	1,571'	+5,630'
1,689'	1,701'	+5,500'
2,034'	2,046'	+5,155'
2,209'	2,221'	+4,980'
2,299'	2,311'	+4,890'
2,624'	2,636'	+4,565'
3,754'	3,766'	+3,435'
4,564'	4,576'	+2,625'
4,739'	4,751'	+2,450'
5,331'	5,343'	+1,858'
5,875'	5,887'	+1,314'
	0, 1,559, 1,689, 2,034, 2,209, 2,299, 2,624, 3,754, 4,564, 4,739, 5,331,	0' 12' 1,559' 1,571' 1,689' 1,701' 2,034' 2,046' 2,209' 2,221' 2,299' 2,311' 2,624' 2,636' 3,754' 3,766' 4,564' 4,576' 4,739' 4,751' 5,331' 5,343'

2. NOTABLE ZONES

Oil &/or Gas Zones	Water Zones	Coal Zone
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 Campos 4 #4 2000' FNL & 800' FWL Sec. 4, T. 23 N., R. 7 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

<u>Hole Size</u>	<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	5,875'
		15.51hf	IT L			

Surface casing will be cemented to the surface with $\approx\!290$ cubic feet ($\approx\!245$ 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 sentralizer 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.



Elm Ridge Exploration Company, LLC Campos 4 #4 2000' FNL & 800' FWL Sec. 4, T. 23 N., R. 7 W. Rio Arriba County, New Mexico

First stage volume will be \approx 740 cubic feet consisting of \approx 175 sacks of Halliburton light with 65/35 poz mix + 1/4 pound per sack cellophane + 2% CaCl₂ (yield = 1.87 cubic feet per sack, weight = 12.7 pounds per gallon) followed by \approx 350 sacks Class B with 2% CaCl₂ (yield = 1.18 cubic feet per sack, weight = 15.2 pounds per gallon). Volume = >100% excess, but caliper logs will be used to determine actual volume needed.

Second stage volume will be $\approx 1,330$ cubic feet consisting of ≈ 680 sacks of Halliburton light with 65/35 poz mix + 1/4 pound per sack cellophane + 2% CaCl₂ (yield = 1.87 cubic feet per sack, weight = 12.7 pounds per gallon) followed by ≈ 50 sacks of Class B with 2% CaCl₂ (yield = 1.18 cubic feet per sack, weight = 15.2 pounds per gallon). Volume = >100% excess, but caliper logs will be used to determine actual volume needed.

5. MUD PROGRAM

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

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

6. CORES, TESTS, & LOGS

No cores or drill stem tests are planned. DIL/GR logs will be run from TD to surface. CNL/FDC logs may be run over selected segments. Samples will be collected every ≈ 10 ' through the Gallup. Samples will be collected every ≈ 30 ' elsewhere.



Elm Ridge Exploration Company, LLC Campos 4 #4 2000' FNL & 800' FWL Sec. 4, T. 23 N., R. 7 W. Rio Arriba County, New Mexico

7. DOWN HOLE CONDITIONS

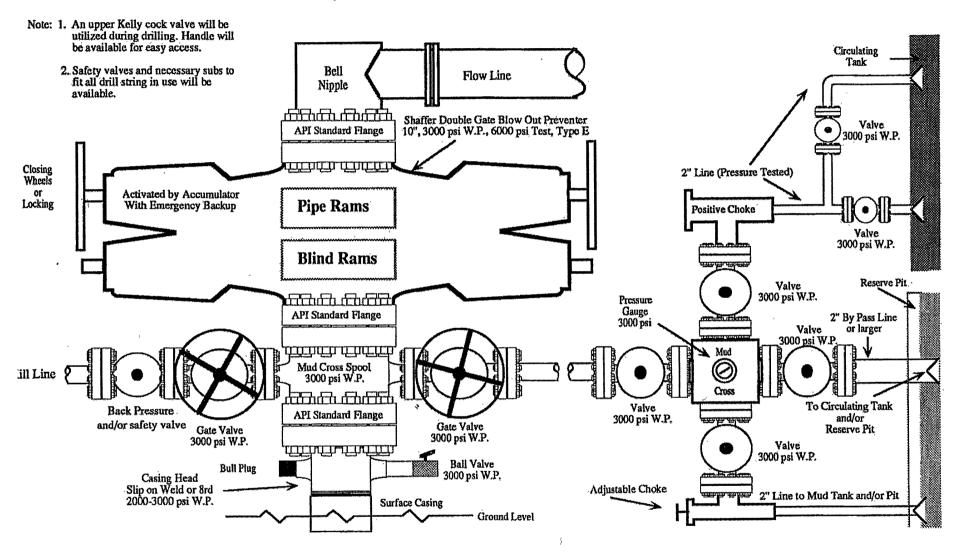
No abnormal pressures, temperatures, or hydrogen sulfide are expected. Maximum expected bottom hole pressure will be $\leq 2,525$ psi.

8. OTHER INFORMATION

The anticipated spud date is August 30, 2007. It is expected it will take 1 week to drill and 2 weeks to complete the well.



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.