RCVD APR18'07 OIL CONS. DIV. DIST. 3 FORM APPROVED

(April 2004)				OMB No.	. 1004-0137 (arch 31, 200	n7
UNITED STATES DEPARTMENT OF THE BUREAU OF LAND MAN	INTERIOR7	APR -3 AM	10: 48	5. Lease Serial No. NMNM-023233	·	"
APPLICATION FOR PERMIT TO		REENTER		6. If Indian, Allotee N/A	or Tribe N	ame
la. Type of work: DRILL REENT	ER 210	FARENCE	3 11 M	7. If Unit or CA Agreement, Name and No. N/A		
lb. Type of Well: Oil Well Gas Well Other	Sin	gle ZoneMultip	ole Zone	8. Lease Name and V SOUTH BLAN		ERAL 22 #5
2. Name of Operator ELM RIDGE EXPLORATION COME	PANY, LLC	-		9. API Well No. 30-045- ろく	156	∂
3a. Address P.O. BOX 156 BLOOMFIELD, NM 87413	3b. Phone No. (505) 63	(include area code) 32-3476		10. Field and Pool, or E LYBROOK G.		
4. Location of Well (Report location clearly and in accordance with an At surface 1700' FSL & 550' FEL	ry State requireme	nts.*)		11. Sec., T. R. M. or Bl		ey or Area
At proposed prod. zone SAME 14. Distance in miles and direction from nearest town or post office*		<u></u>		12. County or Parish		13. State
4 MILES NE OF NAGEEZI				SAN JUAN		NM
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest disc unit line if any) 550'.	16. No. of ac	res in lease		g Unit dedicated to this w E4 (= 40 acres)	veIl	•
(Also to nearest drig, unit line, if any) 550'. 18. Distance from proposed location*	19. Proposed	Denth		BIA Bond No. on file	<u>L</u>	
to nearest well, drilling, completed, applied for, on this lease, ft. 1,045' (22 #2)	5,700'			STATE WIDE 88620)1C	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6,833' GL This action is subject to technical and	22. Approxim	ate date work will star 04/30/2007	rt*	23. Estimated duration 3 WEEKS	n	
procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165 4	24. Attacl	nments		DRILLING OF	PERATION	IS AUTHORIZED A
The following, completed in accordance with the requirements of Onsho	re Oil and Gas (order No.1, shall be a	ttached to thi	s form: SUBJECT C		
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System 	Lands, the	4. Bond to cover the Item 20 above).5. Operator certification		ns unless covered by an	existing bo	and on file (see
SUPO shall be filed with the appropriate Forest Service Office).		 Such other site authorized office 		rmation and/or plans as	may be re-	quired by the
25. Signature	I	Printed/Typed) BRIAN WOOD			Date 03/3	0/2007
Title	PHONE	: (505) 466-8120	FAX	ζ: (505) 466-9682		_
Approved by (Signature) Markie Cos	Name	(Printed/Typed)		:	Date 4	1/17/0
Title AFM	Office					
Application approval does not warrant or certify that the applicant hold conduct operations thereon. Conditions of approval, if any, are attached.	ds legal or equita	able title to those righ	ts in the sub	ject lease which would e	ntitle the a	plicantto
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a c States any false, fictitious og, fraudulent statements or representations as	rime for any pe to any matter wi	rson knowingly and v thin its jurisdiction.	villfully to m	ake to any department o	r agency o	f the United
*(Instructions on page 2)						

NOTIFY AZTEC OCD 24 HRS. PRIOR TO CASING & CEMENT

NMOCD &

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 LOCATION AND ACREAGE DEDICATION PLAT

Pool Code

Pool Name

LYBROOK GALLUP

	'API Number		*Pool Code	*Pool Name	54 AM (1)
ì	30-045- 34	260	42289	LYBROOK GALLUP	-
ı	Property Code		⁸ Pro	operty Name	⁵ Weil Number
	23019		SOUTH BLA	NCO FEDERAL 22	. 5
	OGRID No.		⁶ Оре	erator Name	^e Elevation
	149052		ELM RIDGE	EXPLORATION, LLC	6833'

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
1	22	24N	8W		1700'	SOUTH	550'	EAST	SAN JUAN
L,			<u> </u>	···		<u> </u>		L	

11 Bottom Hole Location If Different From Surface

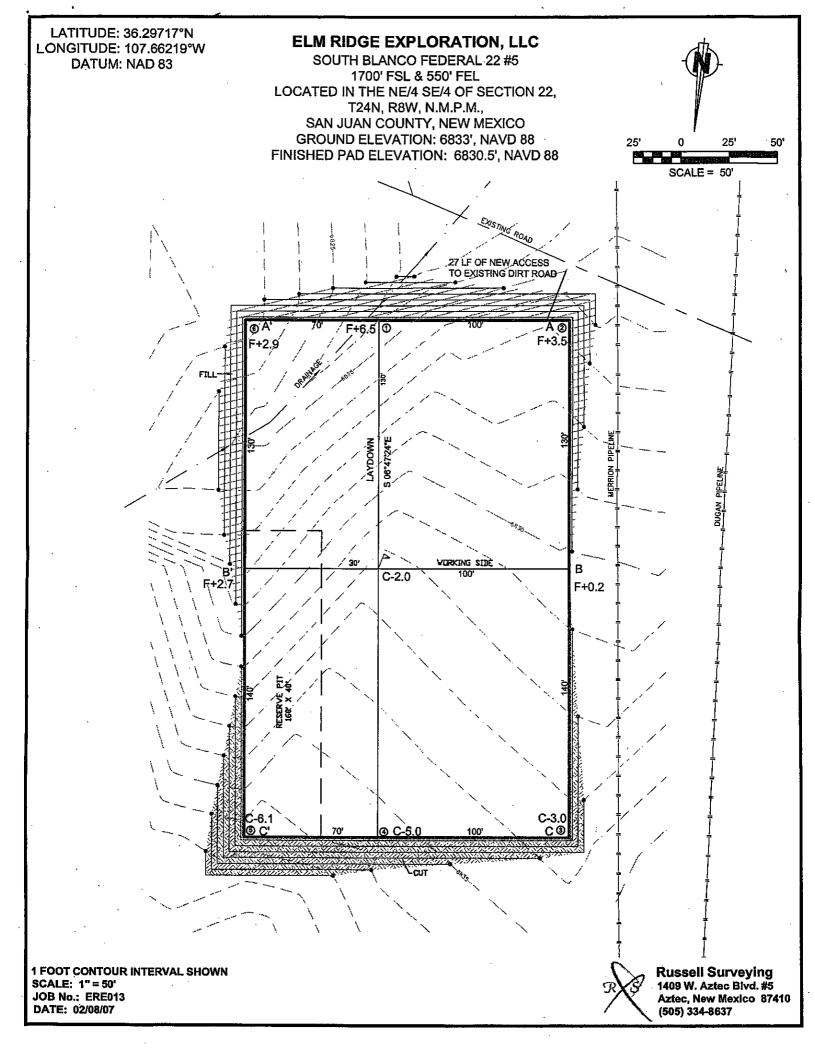
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	ERCOD APR 18'87"
18 Dedicated Acres	ş	V-1 11	13 Joint or	Infill	¹⁴ Consolidation (ode	¹⁵ Order No.	OIL CONS. DIV.
40		•						DIST. 3

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

	17 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 unleaved mineral interest in the lead 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 compulsory pooling order heretofore entired by thy division.
	Bysel 3-30-07 Specture Date
	BRIAN WOOD
	Printed Name
	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.
-22	
FND 2-1/2" BC GLO 1947	FEBRUARY 2, 2007
	Date of Survey
	Signature and Seal of Professional Surveyor:
	Shel Il Musell
LAT. 36.29717 N 550 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
DATUM (NAD 1983)	
. ≥ ≥	
1722	
 	
N 210	The state of the s
	0.1110 011000
N 89'14' W 12621.52' (R) FND 2-1/2" BC N 89"11'18" W 2621.00' (M) FND 2-1/2" BC	DAVID_RUSSELL
FND 2-1/2" BC N 89"11" T8" W 2621.00" (M) FND 2-1/2" BC GLO 1947	Certificate Number 10201

Submit 3 Copies To Appropriate District	State of New Mexico	Form C-103
Office <u>District I</u> 1625 N. French Dr., Hobbs, NM 88240	Energy, Minerals and Natural Resources	WELL API NO: 212/2004
District II 1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION DIVISION	30-045- 3900
District III 1000 Rio Brazos Rd., Aztec, NM 87410	1220 South St. Francis Dr.	5. Indicate Type of Lease STATE FEE
District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505	Santa Fe, NM 87505	6. State Oil & Gas Lease No. NMNM-023233
SUNDRY NOTION	CES AND REPORTS ON WELLS	7. Lease Name or Unit Agreement Name
	ALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A ATION FOR PERMIT" (FORM C-101) FOR SUCH	SOUTH BLANCO FEDERAL 22
	Gas Well Other	8. Well Number 5
2. Name of Operator ELM RIDGE EXPLORATION COI	MPANY, LLC	9. OGRID Number 149052
3. Address of Operator P. O. BOX 156, BLOOMFIELD, NI		10. Pool name or Wildcat LYBROOK GALLUP
4. Well Location		
Unit Letter: I	1700' FSL & 550' FEL	NR/DY GANGWIAN Comme
Section 22	Township 24 North Range 8 West 11. Elevation (Show whether DR, RKB, RT, GR, etc.	NMPM SAN JUAN County
	6,833' GL	
Pit or Below-grade Tank Application Or	<u> Closure </u>	ance from nearest surface water: >4100
Pit Liner Thickness: 12 mil		estruction Material
	k Appropriate Box to Indicate Nature of No	tice, Report or Other Data
NOTICE OF IN' PERFORM REMEDIAL WORK TEMPORARILY ABANDON PULL OR ALTER CASING	PLUG AND ABANDON REMEDIAL WOL	RILLING OPNS. P AND A
OTHER: DRILLING PIT	OTHER:	
	eted operations. (Clearly state all pertinent details, an SEE RULE 1103. For Multiple Completions: Attac	
		•
	•	
I hereby certify that the information a has been/will be constructed or closed accord	bove is true and complete to the best of my knowledg ding to NMOCD guidelines L , a general permit o r an (atta	ge and belief. I further certify that any pit or below-grade ta ached) alternative OCD-approved plan .
SIGNATURE LANGE	TITLE: CONSULTANT	DATE: MAR. 30, 2007
Type or print name: BRIAN WOOD For State Use Only	E-mail address: brian@permitswest.com	Telephone No.: (505) 466-8120
APPROVED BY:	TITLE OR & GAS INSPECT	OR, DIST. #3 DATE APR 1 9 2007

Conditions of Approval (if any):



ELM RIDGE EXPLORATION, LLC

SOUTH BLANCO FEDERAL 22 #5

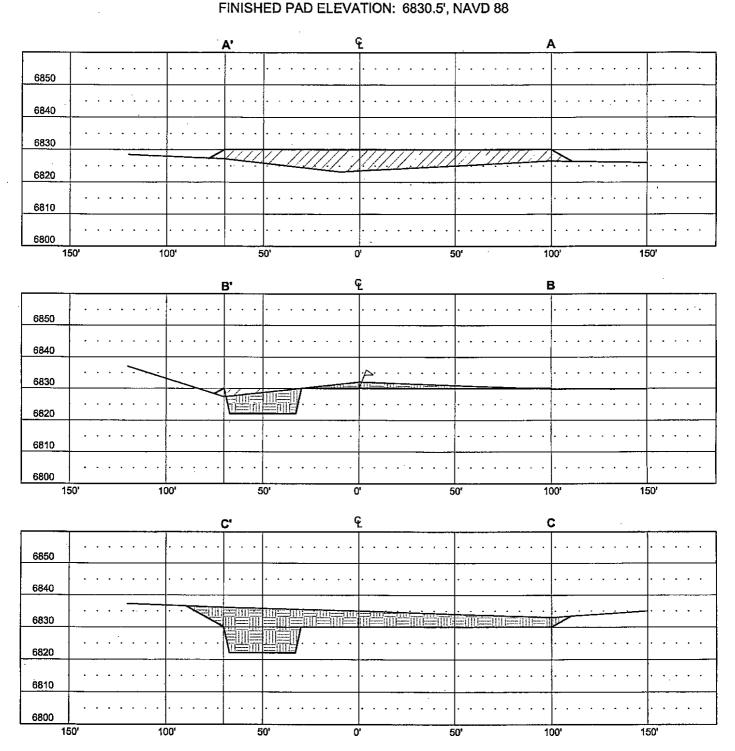
1700' FSL & 550' FEL

LOCATED IN THE NE/4 SE/4 OF SECTION 22,

T24N, R8W, N.M.P.M.,

SAN JUAN COUNTY, NEW MEXICO

GROUND ELEVATION: 6833', NAVD 88



VERT. SCALE: 1" = 30' HORZ. SCALE: 1" = 50' JOB No.: ERE013 DATE: 02/08/07





Drilling Program

1. ESTIMATED FORMATION TOPS

<u>Formation</u>	GL Depth	KB Depth	<u>Elevation</u>
Nacimiento	0'	12'	+6,833'
Ojo Alamo	1,158'	1,170'	+5,675'
Kirtland	1,358'	1,370'	+5,475'
Fruitland	1,383'	1,395'	+5,450'
Pictured Cliffs	1,883'	1,895'	+4,950'
Lewis Shale	2,083'	2,095'	+4,750'
Chacra	2,758'	2,770'	+4,075'
Menefee Shale	3,458'	3,470'	+3,375'
Point Lookout	4,258'	4,270'	+2,575'
Mancos Shale	4,458'	4,470'	+2,375'
Gallup Sandstone	5,268'	5,270'	+1,565'
Total Depth	5,700'	5,712'	+1,133'

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.



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 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

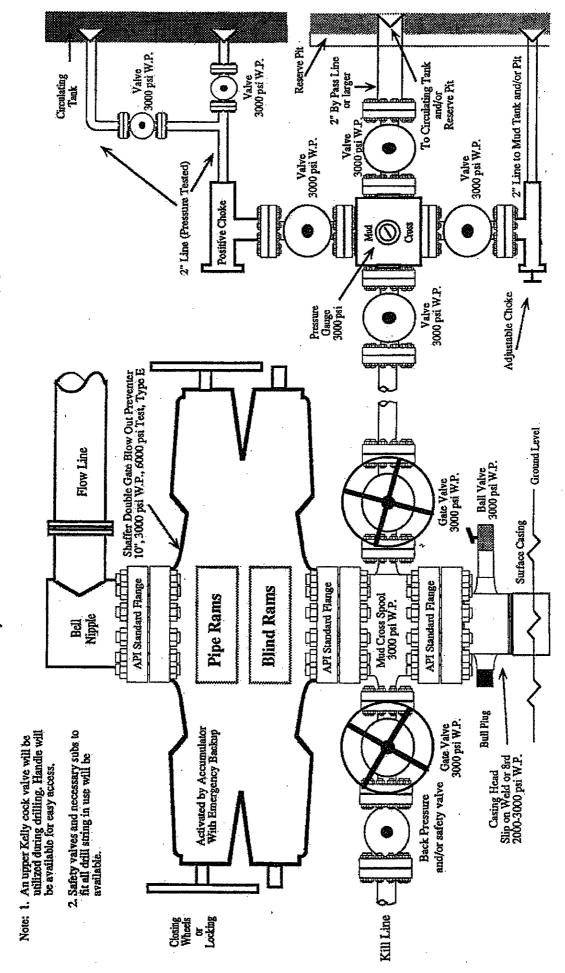
<u> Hole Size</u>	<u>O. D.</u>	Pounds/Foot	<u>Grade</u>	<u>Type</u>	<u>Age</u>	<u>Depth Set</u>
12-1/4"	8-5/8"	24	J-55 or K-55	ST&C	New	350'
7-7/8"	5-1/2"	1,0.5	J-55	LT&C	New	5,700'
,		15.5#		•		

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.

Production casing will be cemented to the surface in 2 stages with a stage tool set $@ \approx 3,500$ '. 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.



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.

First stage volume will be ≈ 782 cubic feet consisting of ≈ 185 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 ≈ 370 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 $\approx 1,215$ cubic feet consisting of ≈ 618 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>	Нq
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 $\approx 10^{\circ}$ through the Gallup. Samples will be collected every $\approx 30^{\circ}$ elsewhere.



7. DOWN HOLE CONDITIONS

No abnormal pressures, temperatures, or hydrogen sulfide are expected. Maximum expected bottom hole pressure will be $\leq 2,280$ psi.

8. OTHER INFORMATION

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

