# UNITED STATES

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

DEPARTMENT OF THE BUREAU OF LAND MAN		NMNM-82323	3
APPLICATION FOR PERMIT TO	ZIBIN HPR	11 6. If Indian, Allotee	or Tribe Name
APPLICATION FOR PERMIT TO	DRILL OR REENTER	N/A	
la. Type of work:	FR OF ST	12 V C 1 17 If Unit or CA Agre	ement, Name and No.
ia. Type of work.	VICT,	NAC NAC	
lb. Type of Well: Oil Well Gas Well Other	✓ Single Zone Multip	8. Lease Name and Note Zone SOUTH BLAT	Well No. NCO FEDERAL 33 #1
2. Name of Operator ELM RIDGE EXPLORATION COMI	PANY, LLC 55678	9. API Well No. 30-045- 33	696
3a. Address P. O. BOX 156 BLOOMFIELD, NM 87413	3b. Phone No. (Anstude area code) (505) (32-3476	10. Field and Pool, or NAGEEZI GA	
4. Location of Well (Report location clearly and in accordance with a	- AUL 200	TI Sec. T.P. M. or B	
At surface 1950' FSL & 790' FWL	(C)		
At proposed prod. zone SAME		33-24N-8W N	MPM
14. Distance in miles and direction from nearest town or post office* 3 AIR MILES E OF NAGEEZI	The state of the s	12. County or Parish SAN JUAN	13. State NM
15. Distance from proposed*	16. No. of acres in lease	17. Spacing Unit dedicated to this	well
location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)  690'	800	NW4SW4 HOAC	
18. Distance from proposed location*	19. Proposed Depth	20. BLM/BIA Bond No. on file	
to nearest well, drilling, completed, applied for, on this lease, ft.	5,700'	BLM STATE WIDE 8862	01C
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 7,021' GL	22. Approximate date work will sta 06/01/2006	rt* 23. Estimated duration 3 WEEKS	n
	24. Attachments		
The following, completed in accordance with the requirements of Onshir	ore Oil and Gas Order No.1, shall be a	ttached to this form:	
Well plat certified by a registered surveyor.		he operations unless covered by an	existing bond on file (see
Well platect the d by a registered surveyor.     A Drilling Plan.	Item 20 above).	ne operations unless covered by an	existing bond on the (see
<ol> <li>A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Farest Service Office).</li> </ol>	6. Such other site	specific information and/or plans as	s may be required by the
	authorized offic	cer.	
25. Signature	Name (Printed/Typed) BRIAN WOOD		Date <b>04/09/2006</b>
Title	PHONE: (505) 466-8120	FAX: (505) 466-9682	
Approved by (Signature) Mankie (15)	Name (Printed/Typed)		Date
Title J/ (Smiles 157)	Office		1/3/06
AFM	FFO		
Application approval does not warrant or certify that the applicant ho conduct operations thereon.  Conditions of approval, if any, are attached.	ds legal or equitable title to those righ	ats in the subject lease which would	entitle the applicant to
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a States any false, fictitious or fraudulent statements or representations a	crime for any person knowingly and sto any matter within its jurisdiction.	willfully to make to any department	or agency of the United
*(Instructions on page 2)	/		
, , ,			
	<b>\</b>		
DOULING ODEDATIONS MITHODITED ARE			

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

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

DISTRICT 1 P.O. Box 1980, Hobbs, N.M. 88241-1980 DISTRICT II

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised Febuary 21, 1994

811 South First, Artesia, N.M. 88210 DISTRICT III 1000 Rio Brazos Rd., Aztec, N.M. 87410

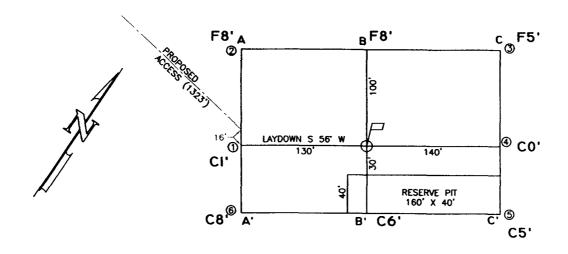
OIL CONSERVATION DIVISION

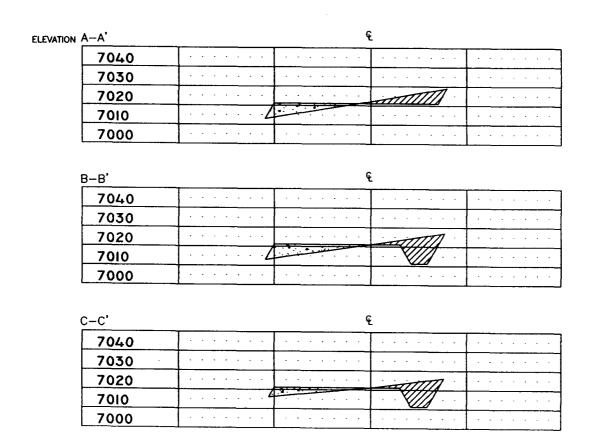
Instructions on back
Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

## P.O. Box 2088 Santa Fe, NM 87504-2088

1000 Rio Brazos	Rd., Aztec,	N.M. 87410		Sa	nta Fe, l	NM 87	7504-2088		1	ee Lea	ase – 3 Copies
DISTRICT IV 2040 South Pach	eco, Santa	Fe, NM 87504	1-2088				_			AMEN	NDED REPORT
						200	8 APR 11 AF	1 8 22		AME	NDED REPORT
		W	ELL L	OCATIO	N AND	AC:	REAGE DEDI	CATION F	PLAT		
	Number 45-3	3696	47	540 Code		(	NAGEEZI GA	LLUP Ool No	me		
Property C	ode	<u> </u>	1,			perty				•	Well Number
3583				SOUT			FEDERAL 33				1
149052	О.	_		ELM	•	erator	Name PLORATION				Elevation
	. <u></u> 1			ELM			Location			1	7021
UL or lot no.	Section	Township	Range	Lot Idn	Feet from		North/South line	Feet from the	East/We	est line	County
L	33	24 N	8 W		1950	ı	SOUTH	790	WE	ST	SAN JUAN
	<u></u>	· · · · · · · · · · · · · · · · · · ·	11 Botto	om Hole	Locati	on I	f Different Fro	m Surface			····
UL or lot no.	Section	Township	Range	Lot Idn	Feet from		North/South line	Feet from the		est line	County
		-					·				,
18 Dedicated Acre	s 13 Joint	or Infill 14 C	onsolidatio	Code 150	rder No.						
40	-	•		. code	ruci no.						
NO ALLOW	ABLE W	ILL BE AS	SSIGNET	————— ) ТО ТНІ	S COMP	LETIC	ON UNTIL ALL	INTERESTS	HAVE F	BEEN (	CONSOLIDATED
110 11220 11							EN APPROVED				
16 N 89°50	5'49" E			T			5281.32'	17 (	PERATO	R CE	RTIFICATION
1.								I hereby cer	tify that the i	nformation	contained herein is
86						1		N)	nplete to the	best of my	knowledge and belief
2634.98'						- 1		5279.	•	\	
56								252	) /		//
								1/2	〜'L.	100	
				-		$\rightarrow$			Ju	440	1
ш								Signature		DDIA	N. WOOD
38								Printed N	ame	BKIA	N WOOD
N 0°02'38" E						1		rimted i		CONS	SULTANT
o -								Title			
2								D-1-		APR.	9, 2006
			SEC	TION 33				Date	IDUDUAL	, and	THE CATTION
								18 St	RVEYOR	CER	TIFICATION
		ì									m shown on this plat al surveys made by me
790'	D LAT.	36.26894	l°						supervision, e best of my		he same is true and
8	LONG	. 107.6935	527°					COTTECT TO LIE	e oust of my	oetusj.	
2634.98	NAD							2/10	/06		
% %						{		Date of S	Survey	11 6.70	ONOS
	ō							Signature	Survey BE	NPMER	Surveyor:
 	95					ł			1-62	Gas.	18
. 38 80								= .6	VEX 1	6896	1/1/21
0.02,38	1					1		.II. 60°0	XX	NHC	y f
o z								S	NO PA		WAL ST
ll .	J.o	345	51 241		)°59'/ O"	<b>,</b>	2451 241	Continue	4600	PESSI	
S 89°58'	HA M	200	51.26'	1 286	9°58'49"	AA	2651.26	Certificat	e Number		

Submit 3 Copies To Appropriate District Office	State of New Mexico	Form C-103
District 1 1625 N. French Dr., Hobbs, NM 88240	Energy, Minerals and Natural Resources	May 27, 2004
District II	OIL CONSERVATION DIVISION	WELL API NO. 33696
1301 W. Grand Ave., Artesia, NM 88210 District III	1220 South St. Francis Dr.	5. Indicate Type of Lease
1000 Rio Brazos Rd., Aztec, NM 87410 District IV	Santa Fe, NM 87505	STATE FEE
1220 S. St. Francis Dr., Santa Fe, NM 87505		6. State Oil & Gas Lease No.
OUNDRY NOT	GEO AND DEPONTS ON WELLS	NMNM-023233
(DO NOT USE THIS FORM FOR PROPOS	CES AND REPORTS ON WELLS ALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A	7. Lease Name or Unit Agreement Name
DIFFERENT RESERVOIR. USE "APPLIC PROPOSALS.)	ATION FOR PERMIT" (FORM C-101) FOR SUCH	SOUTH BLANCO FEDERAL 33
	Gas Well 🔲 Other	8. Well Number #1
2. Name of Operator		9. OGRID Number 149052
ELM RIDGE EXPLORATION CO	MPANY, LLC	
3. Address of Operator		10. Pool name or Wildcat
P. O. BOX 156, BLOOMFIELD, N	M 87413	NAGEEZI GALLUP
4. Well Location	1050) FOY (1 700) FYM	
Unit Letter: L	1950' FSL & 790' FWL	NIMDM CI Country
Section 33	Township 24 N Range 11. Elevation (Show whether DR, RKB, RT, GR, et	8 W NMPM SJ County
	7.021' GL	
Pit or Below-grade Tank Application For		The Communication of the September of the September of the September of the September of Septemb
i e	ter: ≥ <mark>600' Distance</mark> from nearest fresh water well: ≥ <u>1.000'</u> Dis	4
Pit Liner Thickness: 12 mil	Below-Grade Tank: Volumebbls; Co	
12. Chec	k Appropriate Box to Indicate Nature of No	otice, Report or Other Data
NOTICE OF IN	TENTION TO: SU	JBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK	PLUG AND ABANDON   REMEDIAL WO	ORK ALTERING CASING
TEMPORARILY ABANDON	<u> </u>	DRILLING OPNS. P AND A
PULL OR ALTER CASING	MULTIPLE COMPL CASING/CEME	ENT JOB
OTHER: DRILLING PIT	OTHER:	
13. Describe proposed or compl	eted operations. (Clearly state all pertinent details, a	and give pertinent dates, including estimated date of
	. SEE RULE 1103. For Multiple Completions: Att	ach wellbore diagram of proposed completion or
recompletion.	•	
I hereby certify that the information a has been/will be constructed or closed acco	bove is true and complete to the best of my knowled ding to NMOCD guidelines , a general permit  or an (att	ige and belief. I further certify that any pit or below-grade tank tached) alternative OCD-approved plan [].
15/1821		
SIGNATURE / SUCCESSION	TITLE: CONSULTANT	DATE: APRIL 9, 2006
Type or print name: BRIAN WOOD	TITLE: CONSULTANT E-mail address: brian@permitswest.com	DATE: APRIL 9, 2006 Telephone No.: (505) 466-8120
	E-mail address: brian@permitswest.com	Telephone No.: (505) 466-8120
Type or print name: BRIAN WOOD	E-mail address: brian@permitswest.com	





FOOTAGE: 1950' FSL, 790' FWL	ELM RIDGE EXPLORATION DALLAS, TEXAS			
SEC. <b>33</b> TWN. <b>24 N</b> RNG. <b>8 W</b> N.M.P.M.	SURVEYED: 2/10/06	REV. DATE:	APP. BY R.P.	
LATITUDE: <u>36.268941°</u> LONGITUDE: <u>107.693527°</u>	DRAWN BY: A.D.	DATE DRAWN: 3/02/06	FILE NAME: 6500C01	
ELEVATION: 7021	UNITED FIELD SERVICES IN	FARMIN	O. BOX 3651 GTON, NM 87499 : (505) 334-0408	

Elm Ridge Exploration Company, LLC South Blanco Federal 33 #1 1950' FSL & 790' FWL Sec. 33, T. 24 N., R. 8 W. San Juan County, New Mexico

### **Drilling Program**

### 1. ESTIMATED FORMATION TOPS

<u>Formation</u>	GL Depth	KB Depth	<u>Elevation</u>
Nacimiento	000'	12'	+7,021'
Ojo Alamo	1,221'	1,233'	+5,800'
Kirtland	1,421'	1,433'	+5,600'
Fruitland Coal	1,621'	1,633'	+5,400'
Pictured Cliffs	1,871'	1,883'	+5,150'
Lewis Shale	2,121'	2,133'	+4,900'
Cliff House	3,421'	3,433'	+3,600'
Menefee Shale	3,521'	3,533'	+3,500'
Point Lookout	4,321'	4,333'	+2,700'
Mancos Shale	4,421'	4,433'	+2,600'
Gallup Sandstone	5,246'	5,258'	+1,775'
Total Depth	5,700'	5,712'	+1,321'

### 2. NOTABLE ZONES

Oil &/or Gas Zones	<u>Water Zones</u>	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 South Blanco Federal 33 #1 1950' FSL & 790' FWL Sec. 33, T. 24 N., R. 8 W. San Juan 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 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

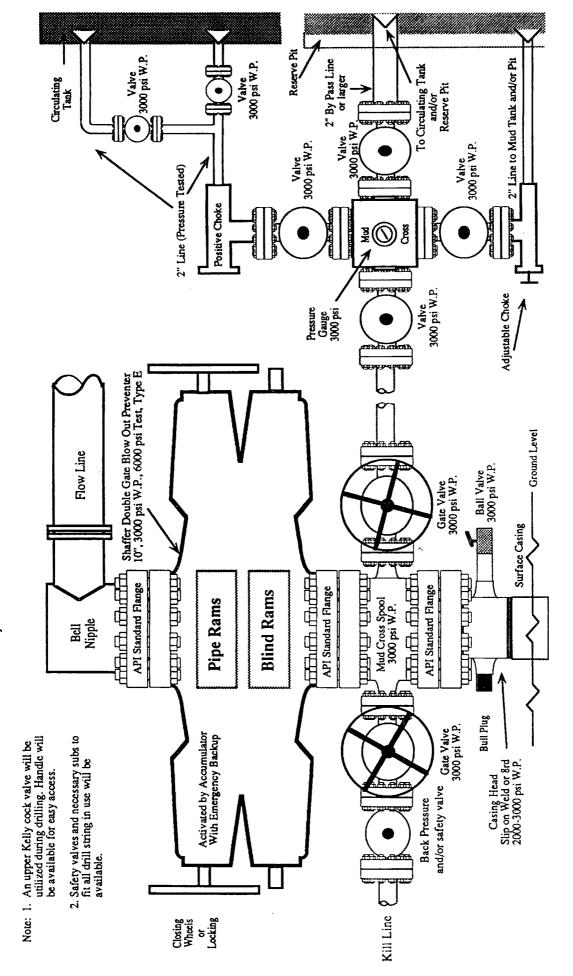
Hole Size	<u>O. D.</u>	Weight (lb/	<u>'ft) Grade</u>	<u>Type</u>	<u>Age</u>	<b>GL Setting Depth</b>
12-1/4"	8-5/8"	24	J-55 or K-55	ST&C	New	350'
7-7/8"	5-1/2"	10.5	J-55	LT&C	New	5,100'

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% CaCl<sub>2</sub>. 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 @  $\approx$ 3,700'. Centralizers will be installed on the middle of the shoe joint and on every joint thereafter (total  $\approx$ 25 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.

Elm Ridge Exploration Company, LLC South Blanco Federal 33 #1 1950' FSL & 790' FWL Sec. 33, T. 24 N., R. 8 W. San Juan County, New Mexico

First stage volume will be  $\approx 695$  cubic feet consisting of  $\approx 150$  sacks of Halliburton light with 65/35 poz mix + 1/4 pound per sack cellophane + 2% CaCl<sub>2</sub> (yield = 1.87 cubic feet per sack, weight = 12.7 pounds per gallon) followed by  $\approx 352$  sacks Class B with 2% CaCl<sub>2</sub> (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  $\approx 1,285$  cubic feet consisting of  $\approx 656$  sacks of Halliburton light with 65/35 poz mix + 1/4 pound per sack cellophane + 2% CaCl<sub>2</sub> (yield = 1.87 cubic feet per sack, weight = 12.7 pounds per gallon) followed by  $\approx 50$  sacks of Class B with 2% CaCl<sub>2</sub> (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	<b>Viscosity</b>	Fluid Loss	<u>pH</u>
0' - 350'	Fresh water gel chem	9.0	50	NC	9
350' - TD	Fresh water gel chem	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.



Elm Ridge Exploration Company, LLC South Blanco Federal 33 #1 1950' FSL & 790' FWL Sec. 33, T. 24 N., R. 8 W. San Juan County, New Mexico

### 7. DOWN HOLE CONDITIONS

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

### 8. OTHER INFORMATION

The anticipated spud date is June 1, 2006. It is expected it will take 1 week to drill and 2 weeks to complete the well.

