Form 3160-3 (April 2004)

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

DIST. 3

UNITED STATES
DEPARTMENT OF THE INTERIOR

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NMNI	и -\$ 25449	
If Indian	Allotee or	7

BUREAU OF LAND MAN	IAGEMENT		NIVINIVI-#25449		
APPLICATION FOR PERMIT TO DRILL OR REENTER			6. If Indian, Allotee or Tribe Name		
ALTERATION TOTT ETIMET TO			N/A		
			7. If Unit or CA Agreement	Name and No.	
la. Type of work: ✓ DRILL REENT	ER		N/A	, -	
		[8. Lease Name and Well N		
b. Type of Well: Oil Well Gas Well Other	✓ Single Zone Multip	ole Zone	BISTI GALLUP 22	#15	
2. Name of Operator ELM RIDGE EXPLORATION COMP	ANY, LLC		9. API Well No. 30-045-34132		
Ba. Address P.O. BOX 156	3b. Phone No. (include area code)		10. Field and Pool, or Explor		
BLOOMFIELD, NM 87413	(505) 632-3476		BISTI LOWER-GA	•	
4. Location of Well (Report location clearly and in accordance with an	ty State requirements.*)	1	1. Sec., T. R. M. or Blk. and	Survey or Area	
At surface 670' FSL & 1650' FEL			A 44 45N 44N NR 6DN		
At proposed prod. zone SAME			6 22-25N-12W NMPN	1	
4. Distance in miles and direction from nearest town or post office*			12. County or Parish	13. State	
26 AIR MILES SE OF FARMINGTON, NM			SAN JUAN	NM	
5. Distance from proposed* location to nearest	16. No. of acres in lease	17. Spacing	Unit dedicated to this well		
property or lease line, ft. (Also to nearest drig, unit line, if any) 670'	440	S2SE4	(= 80 acres) (0 £ p)		
8. Distance from proposed location*	19. Proposed Depth		A Bond No. on file		
to nearest well, drilling, completed, applied for, on this lease, ft. 2,109' (BC 22 #1)	5,000'	RIMS	TATE WIDE 886201C		
		<u> </u>			
1. Elevations (Show whether DF, KDB, RT, GL, etc.) 6,346' GL	22. Approximate date work will star 01/30/2007	rt*	23. Estimated duration 3 WEEKS		
0,540 GL		j	3 WEEKS		
	24. Attachments				
he following, completed in accordance with the requirements of Onsho	re Oil and Gas Order No.1, shall be at	ttached to this	form:		
1. Well plat certified by a registered surveyor.		he operations	unless covered by an existi	ng bond on file (see	
2. A Drilling Plan.	Item 20 above).	4:			
 A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office). 		specific infor	mation and/or plans as may	be required by the	
25. Signature	Name (Printed/Typed)		Date		
1- 200	BRIAN WOOD			12/22/2006	
CONSULTANT	PHONE: (505) 466-8120	FAX:	(505) 466-9682		
Approved by (Signature)	Name (Printed/Typed)		Date	1	
D///anlesysce())			1/29 h	
AFM.	Office				
Application approval does not warrant or certify that the applicant hold	Is legal or equitable, title to those right	its in the subje	ct lease which would entitle	the applicant to	
	20 10 Earlot equitable title to tilose tigil	no mano suoje	ostoado winon would cittide	шо арриоши ш	
conduct operations thereon. Conditions of approval, if any, are attached.					

*(Instructions on page 2)

OTIFY AZTEC OCD IN TIME TO WITNESS

DISTRICT I 1625 N. French Dr., Hobbs, N.M. 68240 State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised August 15, 2000

DISTRICT II 811 South First, Artesia, N.M. 88210

DISTRICT IV

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

OIL CONSERVATION DIVISION 2040 South Pacheco

State Lease - 4 Copies Fee Lease - 3 Copies

Submit to Appropriate District Office

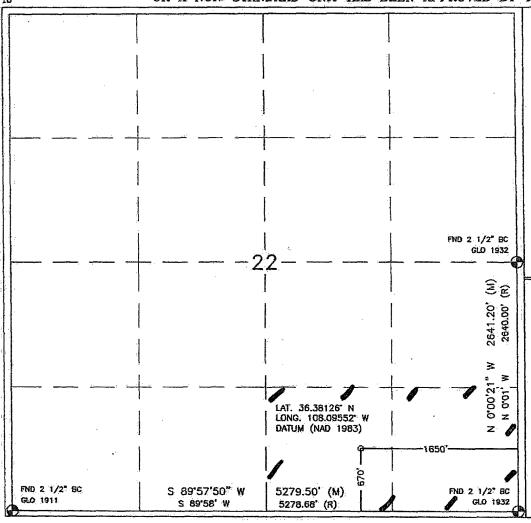
AM 8: 45 AMENDED REPORT

Santa Fe, NM 87505 2040 South Pacheco, Santa Fe, NM 87505

² Pool Code 5890	BISTI *Property Name	LOWER - GALLUP	OIL COMS. DU
	⁵ Property Name		
•	BISTI GALLUP 22		15
	^a Operator Name		⁵ Elevation
. ELM R	RIDGE EXPLORATION	, LLC	6346'
	. ELM I	^a Operator Name	

¹⁰ Surface Location Feet from the North/South line UL or lot no. Section Township Lot Ide Feet from the Rast/West line Range County 670' SOUTH 1650' 0 22 25N 12W EAST SAN JUAN 11 Bottom Hole Location If Different From Surface Lot Idn Feet from the North/South line Section Feet from the East/West line UL or lot no. Township Range County ¹² Dedicated Acres 13 Joint or Infill "Consolidation Code 15 Order No. 80

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 inouledge and

Signeture

BRIAN WOOD

Printed Name

CONSULTANT

Title

22, 2006 DEC.

Date

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.

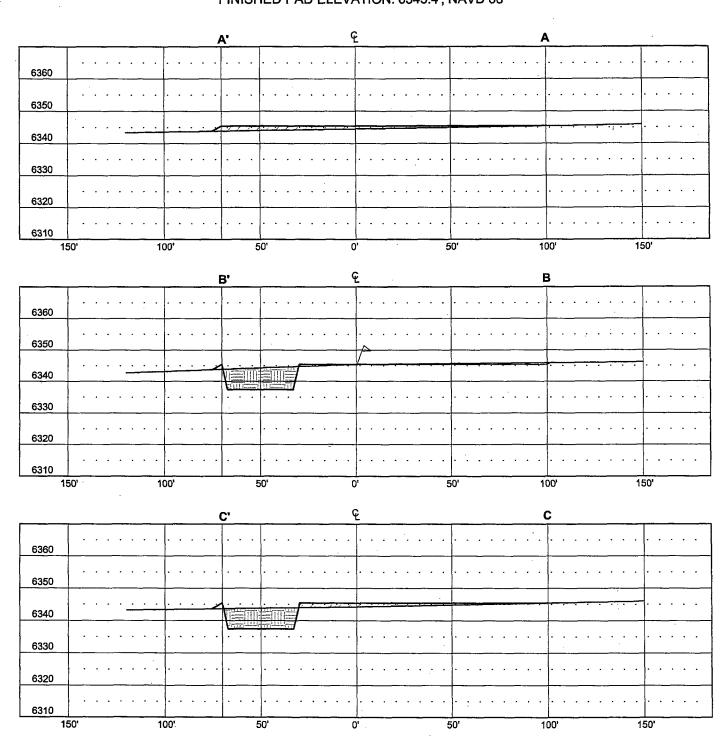
NOVEMBER 193 2006 Date of Survey PARSION !! RUSSELI DAVID Cortificate Number 10201

Submit 3 Copies To Appropriate District Office District I	State of New Me Energy, Minerals and Natu			Form C-10 May 27, 20	
1625 N. French Dr., Hobbs, NM 88240			WELL API NO. 30-045- 34132		
<u>District II</u> 1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION	DIVISION	30-045- 29 5. Indicate Ty		
District III	1220 South St. Fran	ncis Dr.	STATE		
1000 Rio Brazos Rd., Aztec, NM 87410 District IV	Santa Fe, NM 87	7505		Gas Lease No.	
1220 S. St. Francis Dr., Santa Fe, NM 87505			NMNM-2054	19	
SUNDRY NOT (DO NOT USE THIS FORM FOR PROPOSE)	ICES AND REPORTS ON WELLS SALS TO DRILL OR TO DEEPEN OR PLU CATION FOR PERMIT" (FORM C-101) FO	JG BACK TO A		e or Unit Agreement Name	
PROPOSALS.)	,	Robbert	BISTI GALL 8. Well Numb		
	Gas Well Other				
2. Name of Operator ELM RIDGE EXPLORATION CO	MPANY, LLC		9. OGRID Nu		
3. Address of Operator P. O. BOX 156, BLOOMFIELD, N	M 87413		10. Pool name BISTI LOWE		
4. Well Location	(70) 701 0 4 (70) 75				
Unit Letter: O	670' FSL & 1650' FE) II (II) (CANDRIAN C	
Section 22	Township 25 North 11. Elevation (Show whether DR,	Range 12 West	NMPM	SAN JUAN County	
Pit or Below-grade Tank Application 🗷 o	6,346' GL	TAD, KI, GR, etc.)			
Pit type: DRILLING Depth to Groundwa		ter well: > \$\frac{1}{2}000' Distance	ce from nearest su	rface water: >300'	
Pit Liner Thickness: 12 mil	Below-Grade Tank: Volume		ruction Material		
	ck Appropriate Box to Indicate			Other Data	
	• • •		-		
NOTICE OF IN		I .		REPORT OF:	
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WORK] ALTERING CASING [
TEMPORARILY ABANDON PULL OR ALTER CASING	CHANGE PLANS MULTIPLE COMPL	COMMENCE DRIL			
FOLL ON ALTER CASING	MOLTIFLE COMPL	CASING/CEIVIEN	JOB		
OTHER: DRILLING PIT		OTHER:]
	leted operations. (Clearly state all pe				
). SEE RULE 1103. For Multiple C	Completions: Attach	wellbore diagra	m of proposed completion	or
recompletion.					
I hereby certify that the information	above is true and complete to the bes	st of my knowledge:	and belief I fur	ther certify that any nit or helow	v-grade tank
has been/will be constructed or closed acco	rding to NMOCD guidelines , a general	permit or an (attach	ed) alternative OC	D-approved plan .	grade man
aran Ang					
SIGNATURE /	TITLE: CO	NSULTANT	DATE: 1	DEC. 22, 2006	
Type or print name: BRIAN WOOD	E-mail address: brian@per	mitswest.com	Telephon	e No.: (505) 466-8120	
For State Use Only	٥,		-		
A.		PUTY OR 8 GAS IN	ISPECTOR, DIST	FEB 0 1	2007
APPROVED BY: Conditions of Approval (if any):	TITLE		-	DATE	
CODDITIONS OF A DOLOVAL IN ADDA					

LATITUDE: 36.38126°N **ELM RIDGE EXPLORATION, LLC** LONGITUDE: 108.09552°W **BISTI GALLUP 22 #15** DATUM: NAD 83 670' FSL & 1650' FEL 3 LOCATED IN THE SW/4 SE/4 OF SECTION 22, T25N, R12W, N.M.P.M., SAN JUAN COUNTY, NEW MEXICO **GROUND ELEVATION: 6346', NAVD 88** 50' 25' 25' FINISHED PAD ELEVATION: 6345.4', NAVD 88 SCALE = 50' /FILL Ō F+0.9 C-0.0 F+1.4 **WORKING SIDE** 100' B' F+1.7 C-0.0 В C-0.5 RESERVE PIT 160' X 40' C-0.0 F+1.2 100' 1458 LF OF NEW ACCESS 1240 LF ALONG 2 TRACK ROAD 300 LF TO EXISTING DIRT ROAD **Russell Surveying** 1 FOOT CONTOUR INTERVAL SHOWN SCALE: 1" = 50' 1409 W. Aztec Blvd. #5 Aztec, New Mexico 87410 JOB No.: ERE007 DATE: 11/13/06 (505) 334-8637

ELM RIDGE EXPLORATION, LLC

BISTI GALLUP 22 #15
670' FSL & 1650' FEL
LOCATED IN THE SW/4 SE/4 OF
SECTION 22, T25N, R12W, N.M.P.M.,
SAN JUAN COUNTY, NEW MEXICO
GROUND ELEVATION: 6346', NAVD 88
FINISHED PAD ELEVATION: 6345.4', NAVD 88



VERT. SCALE: 1" = 30' HORZ. SCALE: 1" = 50' JOB No.: ERE007 DATE: 11/14/06





Russell Surveying 1409 W. Aztec Bivd. #5 Aztec, New Mexico 87410 (505) 334-8637 Elm Ridge Exploration Company, LLC Bisti Gallup 22 #15 670' FSL & 1650' FEL Sec. 21, T. 25 N., R. 12 W. San Juan County, New Mexico

Drilling Program

1. ESTIMATED FORMATION TOPS

<u>Formation</u>	<u>GL Depth</u>	KB Depth	<u>Elevation</u>
Nacimiento	0'	12'	+6,346'
Fruitland Coal	1,056'	1,068'	+5,290'
Pictured Cliffs	1,116'	1,128'	+5,230'
Lewis Shale	1,256'	1,268'	+5,090'
Cliff House	1,436'	1,448'	+4,910'
Menefee Shale	2,506'	2,518'	+3,840'
Point Lookout	3,546'	3,558'	+2,800'
Mancos Shale	3,706'	3,718'	+2,640'
Gallup Sandstone	4,621'	4,633'	+1,725'
Total Depth	5,000'	5,012'	+1,346'

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

Bisti Gallup 22 #15

670' FSL & 1650' FEL

Sec. 21, T. 25 N., R. 12 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

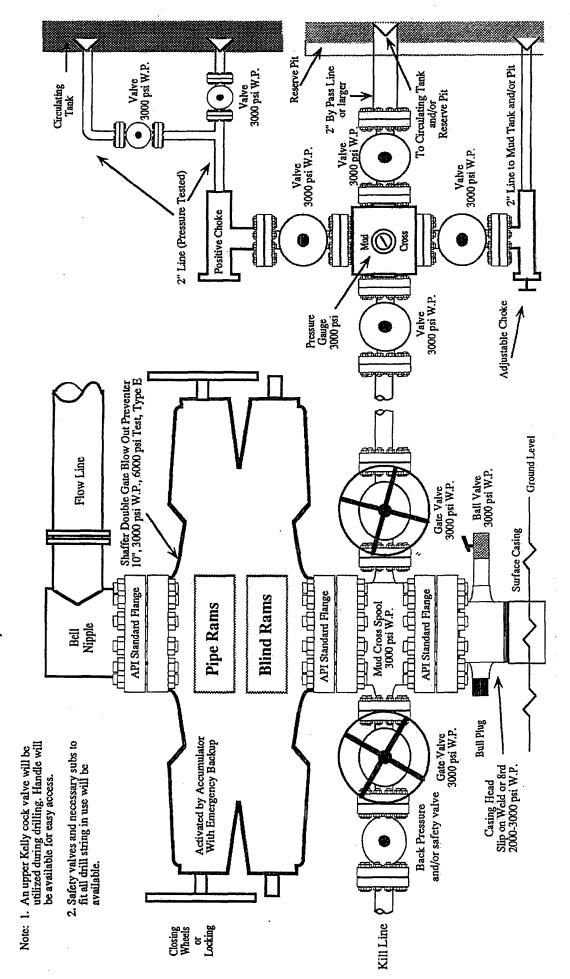
<u>Hole Size</u>	<u>O. D.</u>	Pounds/Foot	<u>Grade</u>	<u>Type</u>	<u>Age</u>	<u>Depth Set</u>
12-1/4"	8-5/8"	24	J-55 or K-55	ST&C	New	350'
7-7/8"	5-1/2"	10.5	J-55	LT&C	New	5,000'

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 (\approx 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.

Elm Ridge Exploration Company, LLC Bisti Gallup 22 #15 670' FSL & 1650' FEL Sec. 21, T. 25 N., R. 12 W. San Juan County, New Mexico

First stage volume will be ≈ 525 cubic feet consisting of ≈ 125 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 ≈ 250 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	Viscosity	Fluid Loss	<u>Н</u> д
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 Bisti Gallup 22 #15 670' FSL & 1650' FEL Sec. 21, T. 25 N., R. 12 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 $\leq 2,150$ psi.

8. OTHER INFORMATION

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

