DIST. S FORM APPROVED Form 3160 -3 OMB No. 1004-0137 Expires March 31, 2007 (April 2004) UNITED STATES 5. Lease Serial No. DEPARTMENT OF THE INTERIOR 11: NM9VM-051013 2007 JAN -9 BUREAU OF LAND MANAGEMENT 6. If Indian, Allotee or Tribe Name APPLICATION FOR PERMIT TO DRILL OR REENTER RECEIVED If Unit or CA Agreement, Name and No. DRILL REENTER la. Type of work: N/A 8. Lease Name and Well No. lb. Type of Well: ✓ Oil Well Gas Well ✓ Single Zone Multiple Zone SOUTH BIST. A. Name of Operator 9. API Well No. ELM RIDGE EXPLORATION COMPANY, LLC 30-045- ろ 3a. Address P.O. BOX 156 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory BISTI LOWER-GALLUP **BLOOMFIELD, NM 87413** (505) 632-3476 11. Sec., T. R. M. or Blk. and Survey or Area Location of Well (Report location clearly and in accordance with any State requirements.*) 665' FSL & 790' FEL At surface 🕖 21-25N-12W NMPM At proposed prod. zone SAME 12. County or Parish 13. State Distance in miles and direction from nearest town or post office* 26 AIR MILES SSE OF FARMINGTON, NM SAN JUAN NM 17. Spacing Unit dedicated to this well Distance from proposed* 16. No. of acres in lease location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) S2SE4 (= 80 acres) 20. BLM/BIA Bond No. on file 18. Distance from proposed location* to nearest well, drilling, completed, 19. Proposed Depth BLM STATE WIDE 886201C AM 285 R 5,000' 1,800' (BC 28-1) applied for, on this lease, ft. 22. Approximate date work will start* Elevations (Show whether DF, KDB, RT, GL, etc.) 23. Estimated duration 6,332' GL 02/20/2007 3 WEEKS 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form: 4. Bond to cover the operations unless covered by an existing bond on file (see 1. Well plat certified by a registered surveyor. Item 20 above). 2. A Drilling Plan. 3. A Surface Use Plan (if the location is on National Forest System Lands, the Operator certification SUPO shall be filed with the appropriate Forest Service Office). Such other site specific information and/or plans as may be required by the authorized officer. Date 25. Signature Name (Printed/Typed) **BRIAN WOOD** 01/05/2007 Title CONSULTANT PHONE: (505) 466-8120 FAX: (505) 466-9682 Name (Printed/Typed) Approved by (Signature) Office Title Application approval does not warrant of certify that the applicant holds legal or equitable title to those rights 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 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)

conduct operations thereon.

Conditions of approval, if any, are attached.





DISTRICT I 1625 N. French Dr., Hobbs, N.M. 86240

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised August 15, 2000

DISTRICT II 811 South First, Artesia, N.M. 80210

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

OIL CONSERVATION DIVISION

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

2040 South Pacheco Santa Fe, NM 87505

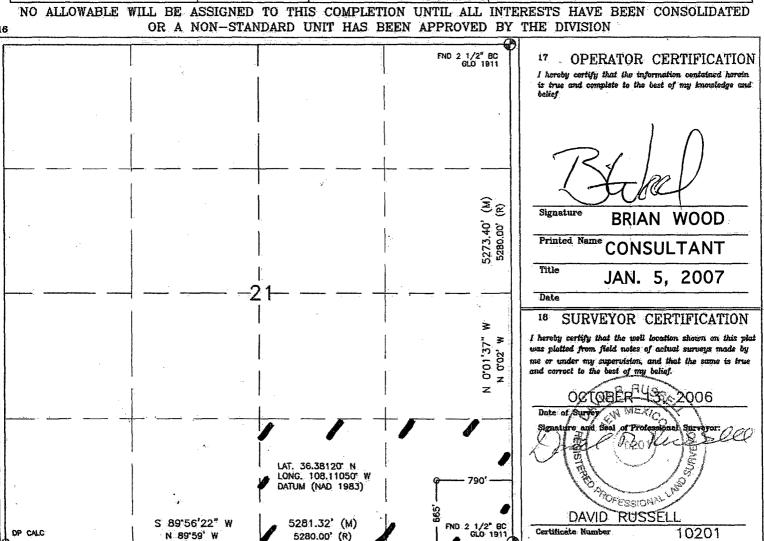
DISTRICT IV 2040 South Pacheco, Santa Fe, NM 87505

2007 JAN -9 AN II: 37 AMENDED REPORT

API Number	WELL LOCATION AND ACREAGE DEDICATION PLAT	ROD INC
30-045-34142	5890 Souin Bisti Gilp 24.P	OIL COMS. I
*Prorerty Code	⁵ Property Name	Well Number
36289	SOUTH BISTI GALLUP 21P	
OGRID No.	Operator Name	⁹ Elevation
149052	ELM RIDGE EXPLORATION, LLC	6332'

Surface Location UL or lot no. Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line County 21 25N 12W 665 SOUTH 790' EAST SAN JUAN 11 Bottom Hole Location If Different From Surface

r lot no. Section Townsh	p Range Lot idn	Feet from the North/South line	Feet from the	East/West line	County
ı.					
icated Acres	¹⁸ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.	•	,
80	•	•		•	

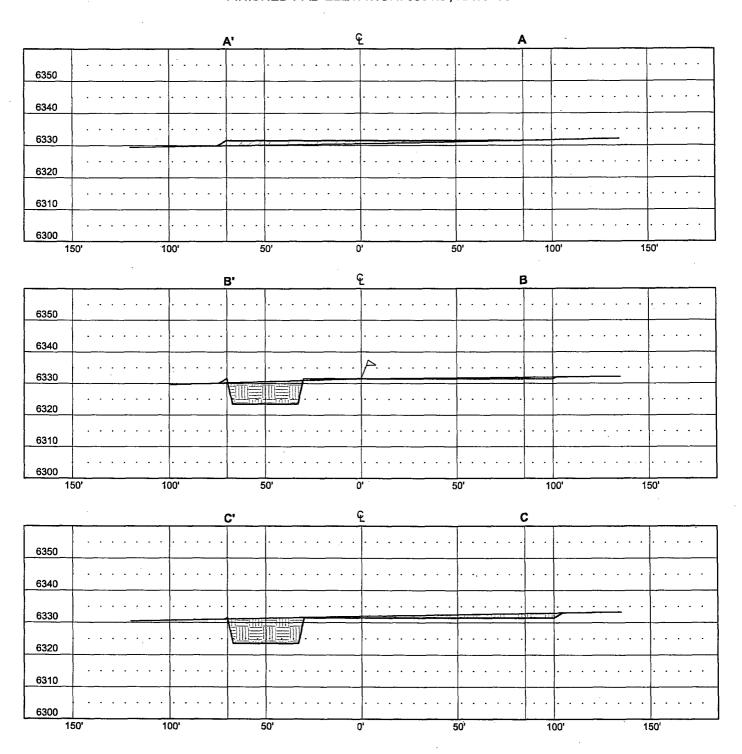


Submit 3 Copies To Appropriate District Office	State of New Mer Energy, Minerals and Natur			F	orm C-103 May 27, 2004	
District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION DIVISION		WELL API NO 30-045- 5. Indicate Type			
District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM	1220 South St. Francis Dr. Santa Fe, NM 87505		STATE 6. State Oil & NMNM-05101	Gas Lease No.		
(DO NOT USE THIS FORM FOR PROPO DIFFERENT RESERVOIR. USE "APPLI	TCES AND REPORTS ON WELLS SALS TO DRILL OR TO DEEPEN OR PLUC CATION FOR PERMIT" (FORM C-101) FOR			e or Unit Agreen		
	Gas Well Other		8. Well Numb			
2. Name of Operator ELM RIDGE EXPLORATION CO	OMPANY, LLC					
3. Address of Operator P. O. BOX 156, BLOOMFIELD, N	NM 87413		10. Pool name BISTI LOWER			
4. Well Location Unit Letter: P	665' FSL & 790' FEL					
Section 21	Township 25 North	Range 12 West	NMPM	SAN JUAN	County	
Section 21	11. Elevation (Show whether DR, 6,332' GL		141411 141	SAN SOM		
Pit of Below-grade Tank Application			post general			
	ater: >100' Distance from nearest fresh wat	7		face water: <u>>500'</u>		
Pit Liner Thickness: 12 mil	Below-Grade Tank: Volume		ruction Material	Oth on Data		
	ck Appropriate Box to Indicate					
NOTICE OF IN PERFORM REMEDIAL WORK TEMPORARILY ABANDON PULL OR ALTER CASING	NTENTION TO: PLUG AND ABANDON CHANGE PLANS MULTIPLE COMPL	SUB REMEDIAL WORK COMMENCE DRI CASING/CEMENT	LLING OPNS.	ALTERING P AND A	CASING	
OTHER: DRILLING PIT		OTHER:				
starting any proposed work recompletion.	eleted operations. (Clearly state all pe	ompletions: Attach	wellbore diagra	m of proposed o	ompletion or	
has been/will be constructed or closed acco	aboye is true and complete to the besording to NMOCD guidelines [2], a general party	permit 🗌 or an (attacl	and belief. I furt ned) alternative OC	her certify that any D-approved plan [y pit or below-grade].	tank
SIGNATURE	TITLE: CO	NSULTANT	DATE: J	IAN. 5, 2007		
Type or print name: BRIAN WOOD For State Use Only	A	4	•	e No.: (505) 466		
APPROVED BY: Conditions of Approval (if any):	TITLE	MY OR & GAS IN	SPECTOR, DIST.	O DATE FEB	0 1 2007	

LATITUDE: 36.38120°N **ELM RIDGE EXPLORATION, LLC** LONGITUDE: 108.11050°W SOUTH BISTI GALLUP 21P #1 DATUM: NAD 83 665' FSL & 790' FEL LOCATED IN THE SE/4 SE/4 OF SECTION 21, T25N, R12W, N.M.P.M., SAN JUAN COUNTY, NEW MEXICO **GROUND ELEVATION: 6332', NAVD 88** 30' 30' 60' FINISHED PAD ELEVATION: 6331.5', NAVD 88 SCALE = 60 A²⁰ C-0.0 0 F+1.0 A' F+1.6 B' F+1.3 C-0.0 PROPUSED PIPELINE C' F+0.4 C-0.5 50 LF OF NEW ACCESS TO EXISTING DIRT ROAD 1 FOOT CONTOUR INTERVAL SHOWN **Russell Surveying** 1409 W. Aztec Blvd. #5 SCALE: 1" = 60' Aztec, New Mexico 87410 JOB No.: ERE005 DATE: 11/14/06; REV1 (505) 334-8637

ELM RIDGE EXPLORATION, LLC

SOUTH BISTI GALLUP 21P #1
665' FSL & 790' FEL
LOCATED IN THE SE/4 SE/4 OF
SECTION 21, T25N, R12W, N.M.P.M.,
SAN JUAN COUNTY, NEW MEXICO
GROUND ELEVATION: 6332', NAVD 88
FINISHED PAD ELEVATION: 6331.5', NAVD 88



VERT. SCALE: 1" = 30' HORZ. SCALE: 1" = 50' JOB No.: ERE005 DATE: 11/14/06; REV1





Elm Ridge Exploration Company, LLC South Bisti Gallup 21 P #1 665' FSL & 790' FEL Sec. 21, T. 25 N., R. 12 W. San Juan County, New Mexico

Drilling Program

1. ESTIMATED FORMATION TOPS

<u>Formation</u>	GL Depth	KB Depth	<u>Elevation</u>
Nacimiento	0'	12'	+6,332'
Fruitland Coal	1,057'	1,069'	+5,275'
Pictured Cliffs	1,132'	1,144'	+5,200'
Lewis Shale	1,257'	1,269'	+5,075'
Cliff House	1,482'	1,494'	+4,850'
Menefee Shale	2,507'	2,519'	+3,825'
Point Lookout	3,547'	3,559'	+2,785'
Mancos Shale	3,707'	3,719'	+2,625'
Gallup Sandstone	4,617'	4,629'	+1,715'
Total Depth	5,000'	5,012'	+1,332'

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 South Bisti Gallup 21 P #1 665' FSL & 790' 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

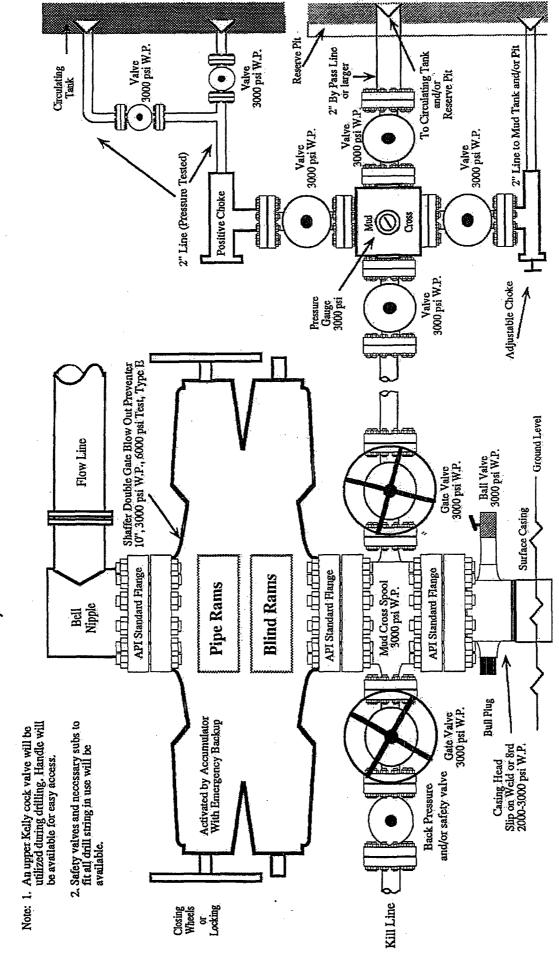
<u>Hole Size</u>	<u>O. D.</u>	Pounds/Foot	<u>Grade</u>	<u>Type</u>	<u>Age</u>	<u>Depth Set</u>
12-1/4"	8-5/8"	24	J-55 or K-55	ST&C	New	350'
7-7/8"	5-1/2"	10.5	J-55	LT&C	New	5,000'

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 South Bisti Gallup 21 P #1 665' FSL & 790' 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 February 20, 2007. It is expected it will take 1 week to drill and 2 weeks to complete the well.

