This well previously approved (API 30-045-29335) for Giant & Central. Approval subsequently expired. Only change is operator.

Form 3160 -3 (April 2004)			OMB No	APPROVED b. 1004-0137 March 31, 2007		
UNITED STATES DEPARTMENT OF THE II BUREAU OF LAND MANA) (M	5 Lease Serial No. NMNM-99604	· · · · · · · · · · · · · · · · · · ·		
APPLICATION FOR PERMIT TO I	REC	DEIVE) Zivot	6. If Indian, Allotec	or Tribe Name		
la. Type of work: DRILL REENTER			7 If Unit or CA Agreement, Name and No. N/A			
lb. Type of Well: ☐Oil Well	Single Zone Multip	ole Zone	8. Lease Name and BISTI DK 24			
2. Name of Operator ELM RIDGE EXPLORATION COMPA	9. API Well No. 30-045-33383					
3a. Address P. O. BOX 156 BLOOMFIELD, NM 87413				10. Field and Pool, or Exploratory BASIN DAKOTA		
4. Location of Well (Report location clearly and in accordance with any State requirements.*) At surface 850 FNL & 1700 FEL At proposed prod. zone SAME			11. Sec., T. R. M. or Blk. and Survey or Area 24-25N-11W NMPM			
14. Distance in miles and direction from nearest town or post office* 22 AIR MILES S OF BLOOMFIELD, NM			12. County or Parish SAN JUAN	13. State NM		
15. Distance from proposed* location to nearest property or lease line, ft.	16. No. of acres in lease		ng Unit dedicated to this	well		
(Also to nearest drig. unit line, if any) 850' 18. Distance from proposed location*	160 E2 19. Proposed Depth 20. BLM.		BIA Bond No. on file			
to nearest well, drilling, completed, applied for, on this lease, ft.	6,200'		1 STATE WIDE 886201C			
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6,480' GL	22. Approximate date work will sta 11/15/2005	rt*	23. Estimated duration 6 WEEKS			
	24. Attachments					
The following, completed in accordance with the requirements of Onshor	e Oil and Gas Order No.1, shall be a	ittached to th	nis form:			
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office). 	ltem 20 above). Lands, the 5. Operator certifi	cation specific inf	·	n existing bond on file (see		
25. Signature	Name (Printed/Typed) BRIAN WOOD	Printed/Typed) Date				
Title	PHONE: (505) 466-8120	FA	X: (505) 466-9682			
Approved by Signature)	Name (Printed/Typed)			Date 12 7 05		
Application approval does not warrant or certify that the applicant hold conduct operations thereon. Conditions of approval, if any, are attached.	Office Is legal or equitable title to those rigi	hts in the su	bject 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 c States any false, fictitious or fraudulent statements or representations as	rime for any person knowingly and to any matter within its jurisdiction.	willfully to	make to any department	or agency of the United		
*(Instructions on page 2)				\$ 10 K 13 14 15 75 75		

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

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



H

OL CONSERVATION DIVISION 19 19 19 58 2040 South Pachecolo 101 19 17 9 58 Santa Fe. NM 87505

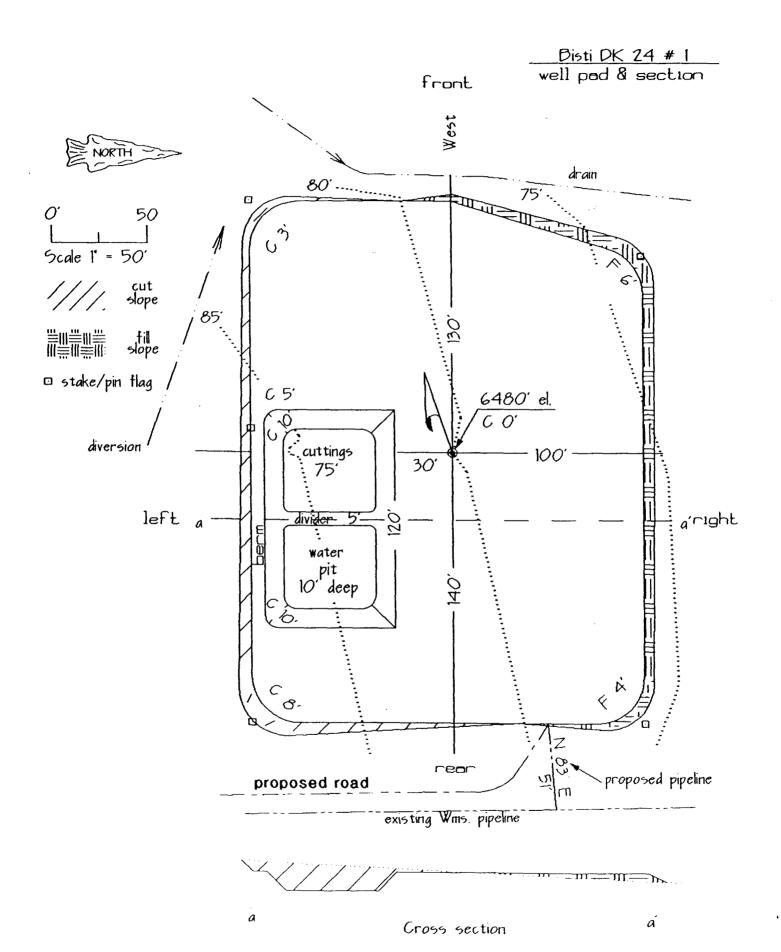
MENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLATATORS IN APA Number Pool Code Pool Name 33383 30-045-71599 BASIN DAKOTA Property Code Well Number Property Name BISTI DK 24 Bevalian OGRID No. Operator Name 6480 ELM RIDGE EXPLORATION COMPANY, LLC 149052 Surface Location Rge. Feet from> North/South Feet from> County UL or Lot Lot lan East/West Twp. В 24 25 N. I W. 850 **NORTH** 1700 **EAST** SAN JUAN Bottom Hole Location of Different From Surface UL or Lot Rge. Feet from North/South Feet from> County Soc Twp. East/West Dedication Joint ? Order No. Consolidation 320 NO ALLOWABLE WILL ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION \$ 89'52' W S 89 48 W . OPERATOR CERTIFICATION I hereby certify that the information contained herein in true and complete 013 to the best of my knowledge and 1700 belief. Ę В Signature WGS 84 Printed Name decimal of degree **BRIAN WOOD** 36,391471 N Title 107.952459 W CONSULTANT Date OCT. 16, 2005 SURVEYOR CERTIFICATION I hereby certify that the well location on this plot was plotted from field notes of actual surveys made by me • from BLM/GLO or under my supervision, and that the calculated same is true and correct to the best of my belief. 08\28\'05 Date of Survey HUDO SWINE XICO Signature to Profession 9 684

\$ 89'51' W -

2623

Submit 3 Copies To Appropriate District Office District I 1625 N. French Dr., Hobbs, NM 88240	State of New Mexico Energy, Minerals and Natural Resources		Form C-103 May 27, 2004 WELL API NO.
District II 1301 W. Grand Ave., Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505	OIL CONSERVATION 1220 South St. Fran Santa Fe, NM 87	ncis Dr.	30-045- 33383 5. Indicate Type of Lease
(DO NOT USE THIS FORM FOR PROPO	ICES AND REPORTS ON WELLS DISALS TO DRILL OR TO DEEPEN OR PLU CATION FOR PERMIT* (FORM C-101) FOR Gas Well X Other	JG BACK TO A OR SUCH	7. Lease Name or Unit Agreement Name BISTI DK 248. Well Number 1
2 Nome of Operator	DGE EXPLORATION COME	PANY, LLC	9. OGRID Number 149052
	X 156, BLOOMFIELD, NM		10. Pool name or Wildcat BASIN DAKOTA
4. Well Location	, , , , , , , , , , , , , , , , , , , ,		
			00 feet from the <u>EAST</u> line
Section 24	Township 25N Ra 11. Elevation (Show whether DR)	ange 11W, RKB, RT, GR, etc.)	NMPM County SAN JUAN
Pit or Below-grade Tank Application X	6,480' GL	·	
	or <u>Closure </u>	>1000 vater well >5,280' Dista	nce from nearest surface water ~150'
Pit Liner Thickness: 12 mi			struction Material
12. Check	Appropriate Box to Indicate N	ature of Notice, I	Report or Other Data
NOTICE OF II PERFORM REMEDIAL WORK TEMPORARILY ABANDON PULL OR ALTER CASING	CHANGE PLANS	SUBS REMEDIAL WORK COMMENCE DRIL CASING/CEMENT	LING OPNS. P AND A
OTHER: DRILLING PIT	X	OTHER:	
13. Describe proposed or com	pleted operations. (Clearly state all	pertinent details, and	give pertinent dates, including estimated date ach wellbore diagram of proposed completion
I hereby certify that the information	n above is true and complete to the h	est of my knowledge	and belief. I further certify that any pit or below-
grade tank has been/will be constructed of	closed according to NMOCD guidelines	a general permit 🗌 o	or an (attached) alternative OCD-approved plan .
SIGNATURE SIGNATURE	TITLE TITLE	CONSULTANT	DATE OCT. 16, 2005
Type or print name BRIAN W For State Use Only	OOD E-mail a	ddress: brian@permi	466-8120
APPROVED BY: Conditions of Approval (if any):	THE TITLE	OIL & GAS INSPECT	DA DEC 13 2005



Drilling Program

1. ESTIMATED FORMATION TOPS

Formation Name	GL Depth	KB Depth	<u>Elevation</u>
Nacimiento	0'	10'	+6,480'
Fruitland	1,150'	1,160'	+5,330'
Fruitland Coal	1,375'	1,385'	+5,105'
Pictured Cliffs Sandstone	1,390'	1,400'	+5,090'
Lewis Shale	1,525'	1,535'	+4,955'
Mesa Verde	2,210'	2,220'	+4,270'
Basal Cliff House Sandstone	2,875'	2,885'	+3,605'
Menefee Shale	2,915'	2,925'	+3,565'
Point Lookout Sandstone	3,865'	3,875'	+2,615'
Mancos Shale	4,090'	4,100'	+2,390'
Gallup Sandstone	4,895'	4,905'	+1,585'
Greenhorn	5,780'	5,790'	+700'
Graneros	5,845'	5,855'	+635'
Dakota Sandstone	5,935'	5,945'	+545'
Total Depth	6,200'	6,210'	+280'

2. NOTABLE ZONES

Oil &/or Gas Zones	Water Zones	Coal Zone
Fruitland Coal	Nacimiento	Fruitland
Pictured Cliffs	Fruitland	
Gallup		
Dakota		

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>	Weight (lb/ft)	<u>Grade</u>	<u>Type</u>	<u>Age</u>	GL Setting Depth
12-1/4"	8-5/8"	24	J-55	ST&C	New	320'
7-7/8"	4-1/2"	10.5	K-55	LT&C	New	6,200'

Surface casing will be cemented to the surface with ≈ 383 cubic feet (≈ 325 sacks) Class B with 1/4 pound per sack Flocele + 2% CaCl₂. Yield = 1.18 cubic feet per sack. Weight = 15.6 pounds per gallon. Volume: >100% excess. Centralizers will be installed on the middle of the shoe joint and every other centralizer thereafter. Thread lock the guide shoe and bottom of float collar only. Use API casing dope.

Fordy



Production casing will be cemented to the surface with ≈30% excess as follows:

- Break circulation with water
- Pump ≈20 barrels of chemical wash
- Pump ≈370 sacks (≈1,439 cubic feet) Class B + 3% chemical extender + 1/4 pound/sack cellophane (=3.89 cubic feet per sack & 10.6 pounds per gallon)
- Follow with ≈350 sacks (≈413 cubic feet) Class B + 2% CaCl₂ (= 1.18 cubic feet per sack & 15.6 pounds per gallon)
- Set ≈25 centralizers
- -W.O.C. = 4 hours

5. MUD PROGRAM

Top \approx 4,500' of hole will be drilled with an Aqua gel lime slurry spud mud mixed to 45-50 sec/quart viscosity. At \approx 4,500' will mud up with a low solids gel and starch mud. Hardness will be treated soda ash. Mud properties will be:

Annular velocity: 120 feet/minute
Fluid loss: 8-10 cc/30 minutes
pH: 8.3 - 8.5
Plastic Viscosity: 4-8 cps
Solids Content: 5-5% maximum

Solids Content: 5.5% maximum
Viscosity: 45-65 sec/quart
Weight: 8.4 - 8.8 pounds per gallon
Yield Value: 3-6 #100 square feet

6. CORES, TESTS, & LOGS

No cores or drill stem tests are planned. A one person logging unit will be on site from $\approx 2,500$ ' to D. Samples will be caught every ≈ 20 ' from $\approx 2,500$ ' to $\approx 4,800$ '. Samples will be caught every ≈ 10 ' from $\approx 4,800$ ' to TD. DIL/GR logs will be run from TD to surface.



Dual induction gamma ray logs will be run from TD to surface casing. Neutron density log will be run from TD through the Gallup, from the base of the Point Lookout through the Mesa Verde, and from the base of the Pictured Cliffs through the Fruitland. CCL, cement bond (if needed), and gamma ray logs will be run in the cased hole from PBTD to surface casing.

7. DOWN HOLE CONDITIONS

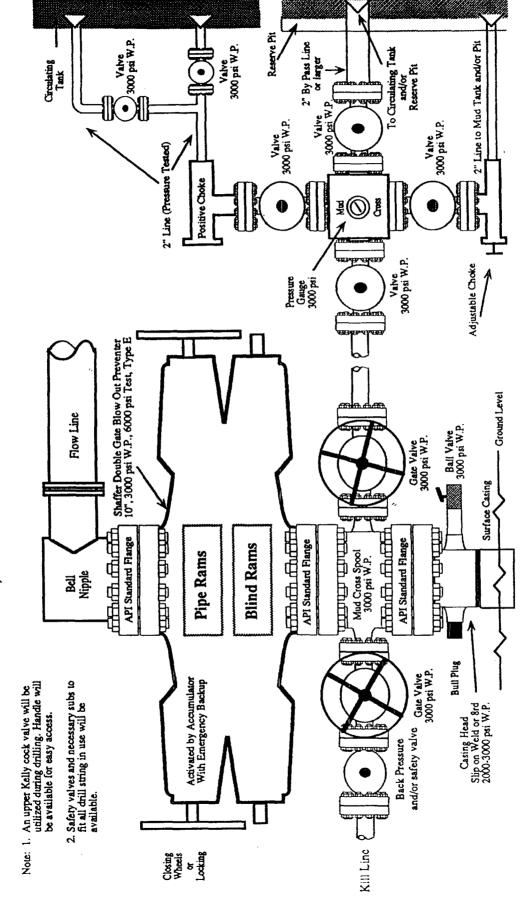
No abnormal pressures, temperatures, or hydrogen sulfide are expected. Maximum pressure will be $\leq 2,000$ psi.

8. OTHER INFORMATION

The spud date will be November 15, 2005 (lease expires November 30, 2005). It is expected it will take \approx 2 weeks to drill and \approx 4 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.