RCUD FFR28'07 OTL CONS. DIV. DIST. 3

Form 3160-3 (February 2005)

UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED OMB NO. 1004-0137

Expires: March 31, 2007 BUREAU OF LAND MANAGEMENT 2005 001 5 Lease Serial No. SFO-4453 APPLICATION FOR PERMIT TO DRILL OR REENTERRECEIV la. Type of Work: **✓** DRILL REENTER 7. If Unit or CA Agreement, Name and No. 8. Lease Name and Well No. 1b. Type of Well: □Oil Well ☑ Gas Well □ Other ☑ Single Zone ☐ Multiple Zone Horn Canvon #2 2. Name of Operator ROBERT L. BAYLESS, PRODUCER LLC 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory **Basin Fruitland Coal** P.O. BOX 168, FARMINGTON, NM 87499 (505) 326-2659 11. Sec., T., R., M., or Blk. and Survey or Area 4. Location of Well (Report location clearly and in accordance with an State requirements *) At surface ₩ Section 15, T28N, R11W 1335 FNL & 995 FEL At proposed prod. zone SAME 14. Distance in Miles and Direction from nearest town or post office* 12. County or Parish 13. State 150 miles from Farmington San Juan New Mexico 16. No. of Acres in Lease 17. Spacing Unit dedicated to this well 15. Distance from proposed* location to nearest property or lease line, ft. 995 FT - LEASE LINE 160 320 (Also to nearest drig. unit line, if any) 20. BLM/BIA Bond No. on file 18 Distance from proposed location* 19. Proposed Depth 300 FT 40S23024BCA to nearest well, drilling, completed, 1660 or applied for, on this Lease, ft. 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration **ASAP** 5501 5506 RKB 8 days 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form: 1. Well plat certified by a registered surveyor. 4. Bond to cover the operations unless covered by an existing bond on file (see 2. A Drilling Plan. Item 20 above) 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). 6. Such other site specific information and/or plans as may be required by the authorized officer. 25. Signature Name (Printed/Typed) Date Habib Guerrero Title Engineer Approved by (Signature) Name (Printed/Typed) Title that the applicant holds legal or equitable title to those rights operations thereon Conditions of approval, if any, are attached

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.

-application or NM OCD form C-103 prior to constri

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".

District 1

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Arissin, NM 88210

District III

1000 Rie Brazos Rd., Axtes, Nhi 87410

District IV

1720 S. St. Francis Dr., Santa Fe, Net 87505

State of New Mexico

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-102

Revised August 15, 2000

Submit to Appropriate District Office

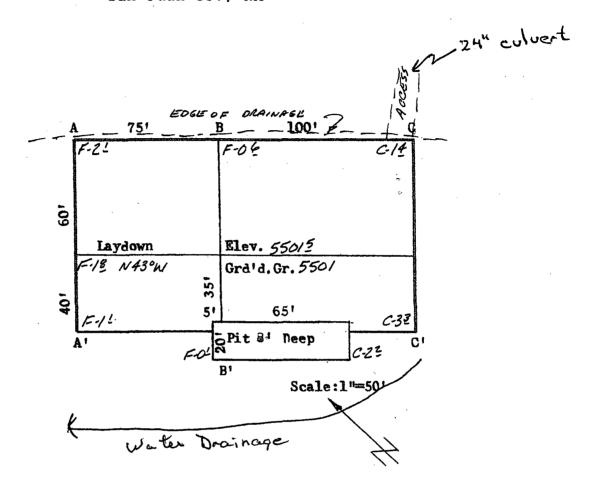
State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

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ROBERT L. BAYLESS, PRODUCER LLC HORN CANYON #2 1335'FNL & 995'FEL Sec.15, T28N, R11W, NMPM San Juan Co., NM



A-A'	Vert.: I" = 30	Hortz.: 1"= 50	C/L		
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5500		+			- +
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Robert L. Bayless, Producer LLC

Drilling Technical Program

(Attachment to Form 3160-3)

Horn Canyon #2
1335 FNL & 995 FEL (SENE)
Section 15, T28N, R11W
San Juan County, New Mexico

1. ESTIMATED FORMATION TOPS

Formation	Depth KB	Est Pressure
Ojo Alamo	395 feet	
Kirtland	535 feet	
Fruitland	1250 feet	350 psi
Pictured Cliffs	1555 feet	400 psi

2. WELL CONTROL SYSTEM

- A. The proposed blowout system (schematic drawings attached) is a bag type preventer, and will be used in 1000 psi service. The wellhead pressure is anticipated to be low and no gas flow to surface.
- B. Maximum anticipated bottom hole pressure = 400 psi. Well Control Anticipated Surface Pressure (ASP) = 400 psi.
- C. BOP pressure testing will be conducted at the time of installation and prior to drilling out surface casing shoe. The annular will be closed daily. A choke manifold will be installed as per attached drawing. Working pressure for the choke manifold is 2000 psi. In addition, a kill line from the mud pump will be installed.
- D. Stabbing valves for drill pipe and drill collars will be available on the rig floor. An upper kelly cock will also be available on the rig.
- E. Anticipated formation pressures average .25 psi/ft gradient and formation fracture pressures are anticipated to exceed the maximum mud weight of 9.1 pounds per gallon.

3. DRILLING MUD PROGRAM

- A. A 8 3/4" surface hole will be drilled with a fresh water system. Lime and gel will be added to provide viscosity as needed.
- B. A 6 ¼" hole will be drilled to total depth utilizing LSND mud.

Interval	Mud System	Weight	Viscosity	WL
		PPG	sec/qt	cc
0 - 120 ft	Spud mud	<9.0	35 - 55	NC
120 - 1660	LSND	8.6 - 9.3	28 - 50	<12

C. Mud level monitoring will be done visually.

4. HAZARDS

- A. Abnormal pressure is not expected in this area.
- B. Lost circulation is expected to be of minimal problems in this area.
- C. No hydrogen sulfide is expected. However, should hydrogen sulfide be encountered during drilling, detection and warning systems will be installed.
- D. Hole deviation is not expected in this area. Single shot surveys giving hole inclination will be run a minimum of every 500 feet.

5. LOGGING AND TESTING

- A. Induction and density logs will be run from total depth across all zones of interest.
- B. No drill stem tests are anticipated in this well.
- C. No cores are anticipated in this well.
- D. No mud logging unit will be used on this well.

6. CASING PROGRAM

- A. Surface casing: 7" 20.0 #/ft J-55 from surface to 120 feet
- B. Production casing: 4 1/2" 10.5 #/ft J-55 from surface to 1660 feet.
- C. A proposed wellbore diagram is attached.

7. CEMENTING PROGRAM

- A. Surface casing: 38 sx (45 cf) Class B w/ 3% CaCl, circulated to surface
- B. Production Casing: 122 sx (262 cf) Premium Lite High Strength cement circulated to surface, volume may change due to caliper log on well.

Robert L. Bayless, Producer LLC

Well Control Equipment Schematic for 1M Service

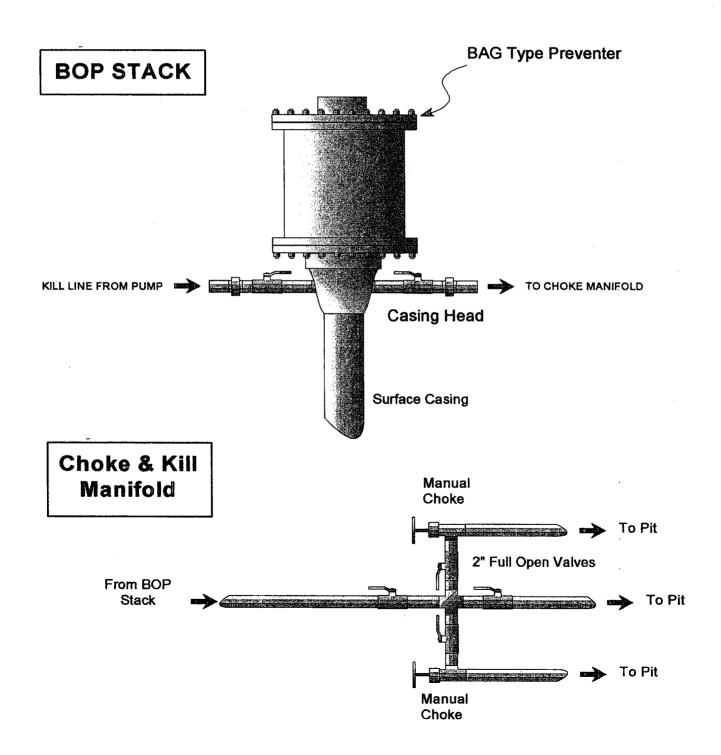
Attachment to APD Form 3160-3

Horn Canyon #2

Location:

1335 FNL & 995 FEL

Sec 15, T28N, R11W, NMPM San Juan County, New Mexcio



Robert L. Bayless, Producer LLC Wellbore Schematic

Horn Canyon #2

Proposed Wellbore Configuration

