

UNITED STATES
DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

Form approved.
Budget Bureau No.1004-0136
Expires: December 31, 1991

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

b. TYPE OF WELL

OIL WELL ☐

GAS WELL ☒

Other

SINGLE ZONE ☒

MULTIPLE ZONE ☐

2. NAME OF OPERATOR

AMOCO PRODUCTION COMPANY

Attention:

Mary Corley

3. ADDRESS AND TELEPHONE NO.

P.O. BOX 3092 HOUSTON, TX 77253

281-366-4491

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

710' FSL

1030' FWL

At proposed prod. zone

Unit M

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

15 Miles to Aztec

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

21. ELEVATIONS (Show whether DF, RT, GR., etc.)

6331' GR

16. NO. OF ACRES IN LEASE

2080

19. PROPOSED DEPTH

5672'

17. NO. OF ACRES ASSIGNED
TO THIS WELL

320.00

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

22. APPROX. DATE WORK WILL START*

10-01-2000

5. LEASE DESIGNATION AND SERIAL NO.

SF-078039

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME, WELL NO.

Barnes LS

8B

9. API WELL NO.

30-045-30349

10. FIELD AND POOL, OR WILDCAT

Blanco Mesaverde

11. SEC. T., R., M., OR BLK.
AND SURVEY OR AREA

Section

26

Township

32N

Range

11W

12. COUNTY OR PARISH

San Juan

13. STATE

New Mexico

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

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT	DENSITY (lb/gal)	YIELD (ft ³ /sk)	WATER (gal/sk)	EXCESS %
12 1/4"	H 40 9 5/8"	32.3#	135'	125 SXS (149 CU.FT.) CLS B CIRC TO SURFACE	15.6	1.19	5.2	100%
8 3/4"	J-55 7"	20#	2627'	230 SXS (461 CU.FT.) CLS B - LEAD 180 SXS (218 CU.FT.) CLS B - TAIL	11.4 15.6	2.88 1.19	16.62 5.25	100%
6 1/4"	J-55 4 1/2"	10.5#	5672' ✓	296 SXS (618 CU.FT.) CemPlus Blend (LiteCrete)	10	2.09	6.68	70%

NOTICE OF STAKING SUBMITTED 07/21/2000

OBJECTIVE: Drill 100' into the Mancos shale, set 4 1/2" Liner across MV, perf & stimulate Cliff House, Menefee, & Point Lookout.

METHOD OF DRILLING: Rotary/Top Drive

DEPTH OF DRILLING: 0' - TD

LOG PROGRAM TYPE: Cased Hole (GR-CCL-TDT)

DEPTH INTERVAL: TDT - PBTD to Top of Liner GR & CCL - PBTD to 0'

MUD PROGRAM:

INTERVAL

TYPE MUD

WEIGHT, #/GAL

0' - 135' (3 JTS)

Spud

8.6 - 9.2

135' - 2627'

Water/LSND

8.6 - 9.2

2627' - TD

Gas/Air/Mist

Volume sufficient to maintain a stable and clean wellbore

(1) Circulate Cement to Surface

(2) Set Casing 50' above Fruitland Coal

(3) Liner Lap should be a minimum of 100'

COMPLETION: Rigless, 2-3 Stage Limited Entry Hydraulic Frac

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

TITLE Sr.RegulatoryAnalyst

DATE

08-28-2000

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY

TITLE

DATE

NMOCD

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes 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.

District I
PO Box 1980, Hobbs NM 88241-1980
District II
PO Drawer KK, Artesia, NM 87211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-102

Revised February 21, 1994

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-30349		² Pool Code 72319		³ Pool Name Blanco Mesaverde	
⁴ Property Code 000300		⁵ Property Name BARNES LS			⁶ Well Number # 8B
⁷ OGRID No. 000778		⁸ Operator Name AMOCO PRODUCTION COMPANY			⁹ Elevation 6331

¹⁰ Surface Location

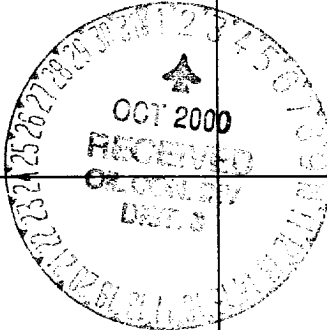
UL or Lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	26	32 N	11 W		710	SOUTH	1030	WEST	SAN JUAN

¹¹ Bottom Hole Location If Different From Surface

¹ UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

¹² Dedicated Acres 320.0	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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

¹⁶		¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Signature: <i>Mary Ciley</i> Printed Name: Mary Ciley Title: Sr. Regulatory Analyst Date: 8-28-2000

1030' →

710' ↓

26

5041(R)

(R) - BLM Record

**Amoco Production Company
BOP Pressure Testing Requirements**

Well Name: Barnes LS 8B

County: San Juan

State: New Mexico

Formation	TVD	Anticipated Bottom Hole Pressure	Maximum Anticipated Surface Pressure **
Ojo Alamo	1842'		
Kirtland	2027'		
Fruitland Coal	2677'		
Pictured Cliffs	3092'		
Lewis Shale	3217'		
Cliff House	4896'	500	0
Menefee Shale	4984'		
Point Lookout	5356'	600	0
Mancos	5572'		

**** Note: Determined using the following formula: ABHP - (.22 * TVD) = ASP**

Requested BOP Pressure Test Exception: 750 PSI

**SAN JUAN BASIN
Mesaverde Formation
Pressure Control Equipment**

Background

The objective Mesaverde formation maximum surface pressure is anticipated to be less than 1000 PSI, based on shut-in surface pressures from adjacent wells. Pressure control equipment working pressure minimum requirements are therefore 2000 PSI. Equipment to be used will conform to API RP-53 (Figure 2.C.2) for a 2000 PSI system per Federal Onshore Order No. 2. Due to available conventional equipment within the area, 3000 PSI rated pressure control equipment will typically be utilized in a double ram type arrangement. Regional drilling rights to be utilized have substructure height limitations which exclude the use of annular preventers; therefore a rotating head will be installed above these rams. This pressure control equipment will be utilized for conventional drilling below conductor to total depth. No abnormal temperature, pressure, or Hydrogen Sulfide gas is anticipated.

Equipment Specification

Interval

BOP Equipment

Below conductor casing to total depth

**11" nominal or 7 1/16", 3000 PSI double ram
preventer with rotating head.**

All ram type preventers and related control equipment will be hydraulically tested to 250 PSI (low pressure) and 750 PSI (high pressure), upon installation, following any repairs or equipment replacements, or at 30 day intervals. Accessories to BOP equipment will include Kelly cock, upper Kelly cock with a handle available, floor safety valves and choke manifold which will also be tested to equivalent pressure at the appropriate intervals.



AMOCO
PRODUCTION COMPANY
Barnes LS # 8B
SW 1/4 Section 26,
T32N, R11W, N.M.P.M.
100' New BLM Road Construction
T32N, R11W, Sec.26
SW 1/4SW 1/4
APD MAP # 1