

UNITED STATES
DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1. TYPE OF WORK

DRILL ☒

DEEPEN ☐

2. TYPE OF WELL

OIL WELL ☐

GAS WELL ☒

Other

SINGLE ZONE ☒

MULTIPLE ZONE ☐

3. NAME OF OPERATOR

Attention:

AMOCO PRODUCTION COMPANY

4. ADDRESS AND TELEPHONE NO.

P.O. BOX 3092 HOUSTON, TX 77253

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

At surface

1865' FSL

690' FEL

At proposed prod. zone

680' FSL

780' FEL

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

11 MILES FROM AZTEC, NM

7. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drilg. unit line, if any)

8. NO. OF ACRES IN LEASE

1732.68

9. NO. OF ACRES ASSIGNED TO THIS WELL

317.27

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

11. PROPOSED DEPTH

5887' MD 5622' TVD

12. ROTARY OR CABLE TOOLS

Rotary

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

6335' GR

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

14. APPROX. DATE WORK WILL START*

12-15-1999

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"	WC-50 9 5/8"	32.5#	135'	125 SXS (172 CU.FT.) CLS B CIRC TO SURFACE	15.6	1.19	5.2	100%
8 3/4"	WC-50 7"	20#	2924'	173 SXS (515 CU.FT.) CLS B - LEAD 204 SXS (105 CU.FT.) 50/50 B/POZ - TAIL	11.4 13.5	2.86 1.27	17.64 5.72	100%
6 1/4"	WC-50 4 1/2"	10.5#	5887'	195 SXS (408 CU.FT.) CemPlus Blend (LiteCrete)	10	2.09	6.68	25%

NOTICE OF STAKING SUBMITTED 10/26/1999

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

DIRECTIONAL

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' - 2924'

Water/LSND

8.6 - 9.2

2677' - 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

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED

"GENERAL REQUIREMENTS"

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

Mary Conley

TITLE SR BUSINESS ANALYST

DATE

11-29-1999

(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

12/10/99

ck ctp

*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.

AMOCO

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

5. LEASE DESIGNATION AND SERIAL NO.

NM 0606

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

00281

8. FARM OR LEASE NAME, WELL NO.

ATLANTIC A LS

5B

9. API WELL NO.

30-045-30059

10. FIELD AND POOL, OR WILDCAT

BLANCO MESAVERDE

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

Section 26

Township 31N

Range 10W

12. COUNTY OR PARISH

San Juan

13. STATE

New Mexico

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

311 South First., Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico

Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 South Pacheco

Santa Fe, New Mexico 87505

Form C-102

Revised October 18, 1994

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-045-30059	Pool Code 72319	Pool Name BLANCO MEASVERDE
Property Code 00281	Property Name ATLANTIC A LS	Well Number 5B
OGRID No. 000778	Operator Name AMOCO PRODUCTION COMPANY	Elevation 6342' GR

Surface Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West Line	County
UNIT I	26	31N	10W		1865	SOUTH	690	EAST	San Juan

Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West Line	County
UNIT P	26	31N	10W		680	SOUTH	780	EAST	San Juan

Dedicated Acreage: 317.27	Joint or Infill	Consolidation Code	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

	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 Corley</i> Printed Name Mary Corley Position Sr. Business Analyst Date 11/29/1999
	"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. October 26, 1999 Date of Survey Signature and Seal of Professional Surveyor
	7016 Certificate Number
	2578(R) 2424(R)

**Amoco Production Company
BOP Pressure Testing Requirements**

Well Name: Atlantic A LS 5B
County: San Juan

State: New Mexico

Formation	TVD	Anticipated Bottom Hole Pressure	Maximum Anticipated Surface Pressure **
Ojo Alamo	1737'		
Kirtland	1827'		
Fruitland Coal	2727'		
Pictured Cliffs	3072'		
Lewis Shale	3117'		
Cliff House	4792'	500	0
Menefee Shale	4892'		
Point Lookout	5292'	600	0
Mancos	5522'		

** 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.

