

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

1. TYPE OF WORK
a. TYPE OF WELL
DIL. WELL ☐ GAS WELL ☒ Other ☐
b. TYPE OF WELL
DIL. WELL ☐ GAS WELL ☒ Other ☐
2. NAME OF OPERATOR
AMOCO PRODUCTION COMPANY
Attention: Mary Corley
3. ADDRESS AND TELEPHONE NO.
P.O. BOX 3092 HOUSTON, TX 77253
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
At surface 910' FSL 660' FWL
At proposed prod. zone
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
13 Miles from Bloomfield, NM
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE
16. NO. OF ACRES IN LEASE
2400
17. NO. OF ACRES ASSIGNED TO THIS WELL
305.51
18. FIELD AND POOL, OR WILDCAT
BLANCO MESAVERDE
19. PROPOSED DEPTH
4981'
20. ROTARY OR CABLE TOOLS
21. APPROX. DATE WORK WILL START*
02-10-2000

USED CASING AND CEMENTING PROGRAM

QUANTITY OF CEMENT	DENSITY (lb/gal)	YIELD (ft ³ /sk)	WATER (gal/sk)	EXCESS %
125 SXS (149 CU.FT.) CLS B CIRC TO SURFACE	15.6	1.19	5.2	100%
166 SXS (478 CU.FT.) CLS B - LEAD	11.4	2.88	16.62	
134 SXS (159 CU.FT.) CLS B - TAIL	15.6	1.19	5.25	100%
187 SXS (391 CU.FT.) CemPlus Blend (LiteCrete)	10	2.09	6.68	70%

*across MV, perf & stimulate Cliff House, Menefee, & Point Lookout.

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

MOD PROGRAM: INTERVAL TYPE MUD WEIGHT, #/GAL
0' - 135' (3 JTS) Spud 8.6 - 9.2
135' - 2146' Water/LSND 8.6 - 9.2
2146' - 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

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

(3) Liner Lap should be a minimum of 100'
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 Corley TITLE SR BUSINESS ANALYST DATE 01-12-2000
(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 [Signature] TITLE Acting, Team Lead, Petroleum Management DATE MAR 6 2000

*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 30-045-30108	² Pool Code 72319	³ Pool Name Blanco Mesaverde
⁴ Property Code 001040	⁵ Property Name SHANE GAS COM	⁶ Well Number # 1B
⁷ OGRID No. 000778	⁸ Operator Name AMOCO PRODUCTION COMPANY	⁹ Elevation 5945

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 (Lot 5)	14	29 N	9 W		910	SOUTH	660	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 305.51	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

<div><p>16</p><p>5213(R)</p><p>14</p><p>Lot 4</p><p>Lot 3</p><p>Lot 2</p><p>Lot 1</p><p>Lot 6</p><p>Lot 7</p><p>Lot 8</p><p>Lot 5</p><p>660'</p><p>910'</p><p>5127(R)</p></div>	<div><p>¹⁷ OPERATOR CERTIFICATION</p><p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p><p><i>Mary Corley</i> Signature MARY CORLEY Printed Name Sr. Business Analyst Title 01/12/2000 Date</p><p>¹⁸ SURVEYOR CERTIFICATION</p><p>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.</p><p>November 11, 1999 Date of Survey</p><p><i>GARY D. MANN</i> Signature and Seal of Professional Surveyor</p><p>NEW MEXICO REGISTERED PROFESSIONAL LAND SURVEYOR 7016</p><p>7016 Certificate Number</p></div>
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MINIMUM BLOW-OUT PREVENTER REQUIREMENTS $7\frac{7}{8}$ " OR 11" (NOMINAL) 3,000 PSI W.P. Typical Dakota / Mesaverde Air / Mud (SRBU)



