

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0136  
Expires November 30, 2000

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: ☒ DRILL ☐ REENTER

1b. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other ☐ Single Zone ☒ Multiple Zone

2. Name of Operator  
AMOCO PRODUCTION COMPANY

Contact: MARY CORLEY  
E-Mail: corley.m@bp.com

3a. Address  
P.O. BOX 3092  
HOUSTON, TX 77253

3b. Phone No. (include area code)  
Ph: 281.366.4491  
Fx: 281.366.0700

4. Location of Well (Report location clearly and in accordance with any State requirements. \*)  
At surface SWNE Tract G 2425FNL 1425FEL 34.43500 N Lat, 107.42700 W Lon  
At proposed prod. zone

14. Distance in miles and direction from nearest town or post office\*  
19 MILES BLOOMFIELD, NEW MEXICO

15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)  
1215' FWL

16. No. of Acres in Lease  
320.00

18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.

19. Proposed Depth  
7683 MD

21. Elevations (Show whether DF, KB, RT, GL, etc.)  
6454 GL

22. Approximate date work will start  
02/01/2001

5. Lease Serial No.  
NMSF - 078414

6. If Indian, Allottee or Tribe Name

7. If Unit or CA Agreement, Name and No.

8. Lease Name and Well No.  
DAY 5M

9. API Well No.  
30-045-30901

10. Field and Pool, or Exploratory  
BASIN DAKOTA/BLANCO MESAVER

11. Sec., T., R., M., or Blk. and Survey or Area  
67 Sec 18 T29N R8W Mer NMP

12. County or Parish  
SAN JUAN

13. State  
NM

17. Spacing Unit dedicated to this well  
320.00 E/2

20. BLM/BIA Bond No. on file

23. Estimated duration

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.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).

4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature  
(Electronic Submission)

Name (Printed/Typed)  
MARY CORLEY

Date  
10/31/2001

Title  
AUTHORIZED REPRESENTATIVE

Date  
11/14/01

Approved by (Signature)

Name (Printed/Typed)

Title  
AFM

Office

Application approval does not warrant or certify 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, 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.

7-20-01

Additional Operator Remarks (see next page)

Electronic Submission #8377 verified by the BLM Well Information System  
For AMOCO PRODUCTION COMPANY, sent to the Farmington  
Committed to AFMSS for processing by Maurice Johnson on 11/06/2001 ()

This document is subject to technical and  
procedural review pursuant to 43 CFR 3163.3  
and appeal pursuant to 43 CFR 3163.4.

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\*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\*

HOLD 0104 FOR NSL in Basin Dakota  
AMOCO

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-045-30901	<sup>2</sup> Pool Code 71599 & 72319	<sup>3</sup> Pool Name BASIN DAKOTA - BLANCO MESA VERDE
<sup>4</sup> Property Code 000417	<sup>5</sup> Property Name Day	<sup>6</sup> Well Number # 5M
<sup>7</sup> OGRID No. 080778	<sup>8</sup> Operator Name AMOCO PRODUCTION COMPANY	<sup>9</sup> Elevation 6454

<sup>10</sup> Surface Location

UL or Lot No. G	Section 18	Township 29-N	Range 8 W	Lot Idn	Feet from the 2425	North/South line NORTH	Feet from the 1425	East/West line EAST	County SAN JUAN
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<sup>11</sup> Bottom Hole Location If Different From Surface

<sup>1</sup> UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<sup>12</sup> Dedicated Acres 3.20	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.						

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	387(R)	1307(R)	18	2425'	1425'	DK MY	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  Signature Mary Corley Printed Name MARY CORLEY Title Sr. Regulatory Analyst Date 10.31.01
	578(R)	1300(R)					



**AMOCO PRODUCTION COMPANY  
DRILLING AND COMPLETION PROGRAM**

**Prospect Name:** Day  
**Lease:** DAY  
**County:** San Juan  
**State:** New Mexico  
**Date:** October 31, 2001

**Well No:** 5M  
**Surface Location:** 18-29N-8W, 2425 FNL, 1425 FEL  
**Field:** Blanco Mesaverde/Basin Dakota

**OBJECTIVE:** Drill 400' below the base of the Greenhorn Limestone, set 4 1/2" production casing, Stimulate CH, MF, PL and DK intervals

METHOD OF DRILLING		APPROXIMATE DEPTHS OF GEOLOGICAL MARKER			
TYPE OF TOOLS	DEPTH OF DRILLING	Estimated GL: 6454		Estimated KB: 6468	
Rotary	0 - TD	MARKER		SUBSEA	MEAS. DEPTH
LOG PROGRAM		Ojo Alamo		4473	1995
TYPE	DEPTH INTERVAL	Fruitland Coal	*	3612	2856
<u>OPEN HOLE</u>		Pictured Cliffs	*	3384	3084
GR-Induction	TD to 7" shoe	Lewis Shale	#	3295	3173
Density/Neutron	TD to 7" shoe	Cliff House	#	1778	4690
		Menefee Shale	#	1634	4834
<u>CASED HOLE</u>		Point Lookout	#	1174	5294
GR-CCL-TDT	TDT – TD to 7" shoe	Mancos		881	5587
CBL	Identify 4 ½" cement top	Greenhorn		-815	7283
REMARKS:		Bentonite Marker		-871	7339
- Please report any flares (magnitude & duration).		Two Wells	#	-912	7380
		Dakota MB	#	-1044	7512
		Burro Canyon	*	-1121	7589
		Morrison	*	-1271	
		TOTAL DEPTH		-1215	7683
		# Probable completion interval		* Possible Pay	
SPECIAL TESTS		DRILL CUTTING SAMPLES		DRILLING TIME	
TYPE		FREQUENCY	DEPTH	FREQUENCY	DEPTH
None		10 feet	Production hole	Geolograph	0-TD
REMARKS:					

MUD PROGRAM:					
Approx. Interval	Type Mud	Weight, #/ga	Vis, sec/qt	W/L cc's/30 min	Other Specification
0 - 200	Spud	8.6-9.2			
200 - 3273 (1)	Water/LSND	8.6-9.2		<6	
3273 - 7683	Gas/Air/N2/Mist	Volume sufficient to maintain a stable and clean wellbore			

**REMARKS:**  
(1) The hole will require sweeps to keep unloaded while fresh water drilling. Let hole conditions dictate frequency.

CASING PROGRAM: (Normally, tubular goods allocation letter specifies casing sizes to be used. Hole sizes will be governed by Contract)						
Casing String	Estimated Depth	Casing Size	Grade	Weight	Hole Size	Landing Pt, Cmt, Etc.
Surface/Conductor	200	9 5/8"	H-40 ST&C	32#	12.25"	1 -
Intermediate 1	3273	7"	J/K-55 ST&C	20#	8.75"	1,2 -
Production	7683	4 1/2"	J-55	11.6#	6.25"	3

**REMARKS:**  
(1) Circulate Cement to Surface  
(2) Set casing 100' into Lewis Shale  
(3) Bring cement 100' above 7" shoe

**CORING PROGRAM:**  
None

**COMPLETION PROGRAM:**  
Rigless, 4-6 Stage Limited Entry Hydraulic Frac

**GENERAL REMARKS:**  
Notify BLM/NMOCD 24 hours prior to Spud, BOP testing, and Casing and Cementing.

Form 46 Reviewed by: \_\_\_\_\_ Logging program reviewed by: N/A

<b>PREPARED BY:</b>	<b>APPROVED:</b>	<b>DATE:</b>
HGJ/MNP		29 October 2001
		Version 1.0

Form 46 12-00 MNP

# Amoco Production Company BOP Pressure Testing Requirements

**Well Name:** Day  
**County:** San Juan

**State:** **5M**  
**New Mexico**

Formation	TVD	Anticipated Bottom Hole Pressure	Maximum Anticipated Surface Pressure **
Ojo Alamo	1995		
Fruitland Coal	2856		
PC	3084		
Lewis Shale	3173		
Cliff House	4690	500	0
Menefee Shale	4834		
Point Lookout	5294	600	0
Mancos	5587		
Dakota	7380	2600	1371

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

Requested BOP Pressure Test Exception: 3000 psi

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

## Background

The objective Dakota 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 in the Basin Dakota. No abnormal temperature, pressure, or H2S anticipated.

### Equipment Specification

**Interval**

**Below conductor casing to total depth**

### BOP Equipment

**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 2000 PSI (high pressure), upon installation, following any repairs or equipment replacements, or at 30 day intervals. Accessories to BOP equipment will include kelly cock,**