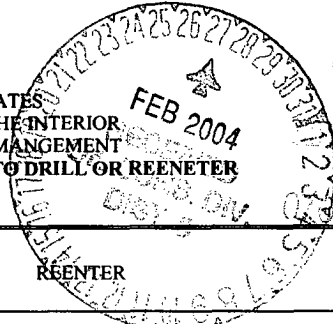


UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
APPLICATION FOR PERMIT TO DRILL OR REENTER



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

5. Lease Serial No. <b>SF - 078387-A</b>	
6. If Indian, Allottee or tribe Name	
7. If Unit or CA Agreement, Name and No	
8. Lease Name and Well No. <b>Fletcher 1M</b>	
9. API Well No. <b>3004531948</b> <del>30-045-30767</del>	
3a. Address <b>P.O. Box 3092 Houston, Texas 77253</b>	3b. Phone No. (include area code) <b>281-366-4491</b>
10. Field and Pool, or Exploratory <b>Basin Dakota &amp; Blanco Mesaverde</b>	
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface <b>2310' FNL &amp; 1540' FWL Unit H</b> At proposed prod. Zone	
11. Sec., T., R., M., or Blk, and survey or Area <b>Sec. 33, T31N, R08W</b>	
14. Distance in miles and direction from nearest town or post office* <b>22 miles from Aztec, NM</b>	
12. County or Parish <b>San Juan</b>	13. State <b>New Mexico</b>
15. Distance from proposed* Location to nearest Property or lease line, ft. (Also to nearest drig. Ujnit line, if any) <b>1100'</b>	16. No. of Acres in lease <b>320</b>
17. Spacing Unit dedicated to this well <b>320 W/2</b>	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. <b>1400'</b>	19. Proposed Depth <b>7930'</b>
20. BLM/BIA Bond No. on file <b>WY2924</b>	
21. Elevations (show whether DF, KDB., RT, GL, etc.) <b>6447' GL</b>	22. Approximate date work will start* <b>December 05, 2003</b>
23. Estimated duration <b>7 Days</b>	

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 Item 20 above).    |
| 2. A Drilling Plan.   | 5. Operator certification.   |
| 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). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature <i>Mary Corley</i>	Name (Printed/typed) <b>Mary Corley</b>	Date <b>10/06/2003</b>
Title <b>Senior Regulatory Analyst</b>		
Approved by <i>David J. Mankiewicz</i>	Name (Printed/Typed) <b>David J. Mankiewicz</b>	Date <b>FEB 24 2004</b>
Title		

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.

\*(Instructions on reverse)

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

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

NMOCDC

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

<sup>1</sup> API Number 30-045-31948		<sup>2</sup> Pool Code 71599 72319		<sup>3</sup> Pool Name BASIN DAKOTA ? BLANCO MESA VERDE	
<sup>4</sup> Property Code 000517		<sup>5</sup> Property Name Fletcher			<sup>6</sup> Well Number # 1M
<sup>7</sup> OGRID No. 000 778		<sup>8</sup> Operator Name AMOCO PRODUCTION COMPANY			<sup>9</sup> Elevation 6447

<sup>10</sup> Surface Location

UL or Lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	33	31 N	8 W		2310	NORTH	1540	WEST	SAN JUAN

<sup>11</sup> Bottom Hole Location If Different From Surface

<sup>7</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 320	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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

	<p><sup>17</sup> 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 Coley</i>        Signature        Mary Coley        Printed Name        Sr Regulatory Analyst        Title        7-27-01        Date</p>
	<p><sup>18</sup> 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>May 14, 2001        Date of Survey        Signature and Seal of Professional Surveyor          7016        Certificate Number</p>

**AMOCO PRODUCTION COMPANY  
DRILLING AND COMPLETION PROGRAM**

**Prospect Name:** Fletcher  
**Lease:** FLETCHER  
**County:** San Juan  
**State:** New Mexico  
**Date:** October 6, 2003

**Well No:** 1M  
**Surface Location:** 33-31N-8W, 2310 FNL, 1540 FWL  
**Field:** Blanco Mesaverde/Basin Dakota

**OBJECTIVE:** Drill 450' below the base of the Greenhorn Limestone, set 41/2" production casing, Stimulate LS, CH, MF, PL and DK intervals

METHOD OF DRILLING		APPROXIMATE DEPTHS OF GEOLOGICAL MARKER			
TYPE OF TOOLS	DEPTH OF DRILLING	Estimated GL: 6447		Estimated KB: 6461	
Rotary	0 - TD	<b>MARKER</b>		<b>SUBSEA</b>	<b>MEAS. DEPTH</b>
<b>LOG PROGRAM</b>		Ojo Alamo		4387.1	2074
<b>TYPE</b>	<b>DEPTH INVERAL</b>	Fruitland Coal	*	3691.3	2563
<u>OPEN HOLE</u>		Pictured Cliffs	*	3189.1	3272
GR-Induction	TD to 7" shoe	Lewis Shale	#	2861	3600
Density/Neutron	TD to 7" shoe	Cliff House	#	1440.2	5021
<u>CASED HOLE</u>		Menefee Shale	#	1239.1	5222
GR-CCL-TDT	TDT - TD to 7" shoe	Point Lookout	#	926.6	5534
CBL	Identify 4 1/2" cement top	Mancos		546.4	5915
<b>REMARKS:</b>		Greenhorn		-1102.5	7564
- Please report any flares (magnitude & duration).		Bentonite Marker		-1149.4	7610
		Two Wells	#	-1221.3	7682
		Dakota MB	#	-1308.8	7770
		Burro Canyon	*	-1506.2	7967
		Morrison	*	-1556.2	8017
		<b>TOTAL DEPTH</b>		<b>-1599</b>	<b>8060</b>
		# Probable completion interval		* Possible Pay	
SPECIAL TESTS		DRILL CUTTING SAMPLES		DRILLING TIME	
TYPE		FREQUENCY	DEPTH	FREQUENCY	DEPTH
None		10 feet	Production hole	Geologist	0-TD
<b>REMARKS:</b>					

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 - 3700 (1)	Water/LSND	8.6-9.2		<6	
3700 - 7967	Gas/Air/N2/Mist	Volume sufficient to maintain a stable and clean wellbore			
7967 - 8060 (2)	LSND	9.0-9.2		<6	

**REMARKS:**  
(1) The hole will require sweeps to keep unloaded while fresh water drilling. Let hole conditions dictate frequency.  
(2) Mud up 50' above Morrison +/-.

**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#	13.5 42.25"	1
Intermediate 1	3700	7"	J/K-55 ST&C	20#	8.75"	1,2
Production	8060	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 (Produced Water)

**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> HGJ/MNP	<b>APPROVED:</b>	<b>DATE:</b> 21 June 2001 Version 1.0
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# BP America Production Company BOP Pressure Testing Requirements

Well Name: Fletcher  
County: San Juan

1M  
State: New Mexico

Formation	TVD	Anticipated Bottom Hole Pressure	Maximum Anticipated Surface Pressure **
Ojo Alamo	2181		
Fruitland Coal	3044		
PC	3304		
Lewis Shale	3569		
Cliff House	4867	500	0
Menefee Shale	5222		
Point Lookout	5565	600	0
Mancos	5950		
Dakota	7710	2600	1500

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

Requested BOP Pressure Test Exception: 1500 psi

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

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## 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

### 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 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, upper kelly cock with a handle available, floor safety valves and choke manifold which will also be tested to equivalent pressure.

## FEDERAL CEMENTING REQUIREMENTS

1. All permeable zones containing fresh water and other usable water containing 10,000 PPM or less total dissolved solids will be isolated and protected from contamination by cement circulated in place for the protection of permeable zones per the NTL-FRA 90-1 Section III A.
  2. The hole size will be no smaller than 1 1/2" larger diameter than the casing O.D. across all water zones.
  3. An adequate spacer will be pumped ahead of the cement slurry to help prevent mud contamination of the cement.
  4. An adequate number of casing centralizers will be run through usable water zones to ensure that the casing is centralized through these zones. The adequate number of centralizers to use will be determined by API SPEC 10D.
  5. Centralizers will impart a swirling action around the casing and will be used just below and into the base of the lowest usable water zone.
  6. A chronological log will be kept recording the pump and slurry information and will be sent to the BLM with the subsequent sundry.
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~~BP is currently using 3% CaCl<sub>2</sub> in our slurry and achieves 300 psi compressive strength after 1 hr 50 min and 500 psi after 3 hrs 8 min. We, therefore, request approval to initiate blowout preventer (BOP) nipple up operations after a 2 hour wait on cement time in lieu of the 6 hour time frame required by rule to achieve 300 psi compressive strength with Class B cement slurry at 80 deg F.~~

*see BLM Requirements*