

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

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

5. Lease Serial No. **NM - 013686**
6. If Indian, Allottee or tribe Name
7. If Unit or CA Agreement, Name and No

1a. Type of Work: ☒ DRILL

☐ REENTER

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

8. Lease Name and Well No.
Pritchard 5M

2. Name of Operator
BP America Production Company Attn: Mary Corley

9. API Well No.
30 045 31812

3a. Address
P.O. Box 3092 Houston, Texas 77253

3b. Phone No. (include area code)
281-366-4491

10. Field and Pool, or Exploratory
Basin Dakota & Blanco Mesaverde

4. Location of Well (Report location clearly and in accordance with any State requirements. *)

At surface **2005' FNL & 905' FEL**

At proposed prod. Zone **1700' FNL & 660' FEL**

11. Sec., T., R., M., or Blk, and survey or Area
H Sec. 34, T31N, R09W

14. Distance in miles and direction from nearest town or post office *

12. County or Parish
San Juan

13. State
New Mexico

15. Distance from proposed*
Location to nearest
Property or lease line, ft.
(Also to nearest drig. Ujnit line, if any) **660'**

16. No. of Acres in lease
316.09

17. Spacing Unit dedicated to this well
DKE 316.09 N/2 MV 315.87

18. Distance from proposed location*
to nearest well, drilling, completed,
applied for, on this lease, ft. **1100'**

19. Proposed Depth
7473'

20. BLM/BIA Bond No. on file
WY2924

21. Elevations (show whether DF, KDB., RT, GL, etc.)
6035' GL

22. Approximate date work will start*
September 01, 2003

23. Estimated duration
7 Days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification.
- Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature *Mary Corley*

Name (Printed/typed)
Mary Corley

Date
07/29/2003

Title
Senior Regulatory Analyst

Approved by (Signature)

Name (Printed/Typed)
/s/ David J. Mentkiewicz

Date
SEP 15 2003

Title
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.

*(Instructions on reverse)

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

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

HOLD C104 FOR *Directional Survey*

NMOCD

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

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

2003 JUL 30 AM 9: 54

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-31812		² Pool Code 71599	³ Pool Name BASIN DAKOTA	
⁴ Property Code 000 959	⁵ Property Name Pritchard			⁶ Well Number # 5M
⁷ OGRID No. 000 778	⁸ Operator Name BP AMERICA PRODUCTION COMPANY			⁹ Elevation 6035

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
H (Lot 8)	34	31 N	9 W		2005	NORTH	905	EAST	SAN JUAN

¹¹ Bottom Hole Location If Different From Surface

7 UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
4 (LOTE)	34	31N	9W		1700	NORTH	660	EAST	SAN JUAN
13 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.						
316.09									

**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

Lot 4

Lot 5

Lot 12

Lot 13

Lot 3

Lot 6

34

Lot 11

Lot 14

5236(R)

Lot 2

Lot 7

Lot 10

Lot 15

Lot 1

2005'

660'

905'

Lot 8

Lot 9

Lot 16

17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Mary Corley
 Signature
 Mary Corley
 Printed Name
 Sr. Regulatory Analyst
 Title
 07.29.2003
 Date

18 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.

July 14, 2003

Date of Survey

Signature and Seal of Professional Surveyor

7016
 Certificate Number

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		2 Pool Code 72319		3 Pool Name BLANCO MEYERDE		
4 Property Code 000959		5 Property Name Pritchard			6 Well Number # 5M	
7 OGRID No. 000 978		8 Operator Name BP AMERICA PRODUCTION COMPANY			9 Elevation 6035	

10 Surface Location

UL or Lot No. H (Lot 8)	Section 34	Township 31 N	Range 9 W	Lot Idn	Feet from the 2005	North/South line NORTH	Feet from the 905	East/West line EAST	County SAN JUAN
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11 Bottom Hole Location If Different From Surface

7 UL or lot no. H (Lot 8)	Section 34	Township 31 N	Range 9 W	Lot Idn	Feet from the 1700	North/South line NORTH	Feet from the 660	East/West line EAST	County SAN JUAN
12 Dedicated Acres 315.87		13 Joint or Infill		14 Consolidation Code		15 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

<p>16</p> <p>Lot 4 Lot 3 Lot 2 Lot 1</p> <p>Lot 5 Lot 6 Lot 7</p> <p>Lot 12 Lot 11 Lot 10 Lot 9</p> <p>Lot 13 Lot 14 Lot 15 Lot 16</p> <p>2612(R) 2630(R)</p>				<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>Signature Mary Corley</p> <p>Printed Name Mary Corley</p> <p>Title Sr Regulatory Analyst</p> <p>Date 07.29.2003</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>July 14, 2003</p> <p>Date of Survey</p> <p>Signature and Seal of Professional Surveyor</p> <p>GARY D. YANN NEW MEXICO REGISTERED PROFESSIONAL LAND SURVEYOR 7016</p> <p>7016 Certificate Number</p>	

**BP AMERICA PRODUCTION COMPANY
DRILLING AND COMPLETION PROGRAM**

Prospect Name: Pritchard
Lease: Pritchard
County: San Juan
State: New Mexico
Date: July 17, 2003

Well No: 5M
Surface Location: 34-31N-9W, 2005 FNL, 905 FEL
Field: Blanco Mesaverde/Basin Dakota
Bottom Location: 34-31N-9W, 1700 FNL, 660 FEL

OBJECTIVE: Drill 210' below the top of the Two Wells Mbr., Dakota Fm., set 41/2" production liner, Stimulate DK, CH, MF and PL intervals

METHOD OF DRILLING		APPROXIMATE DEPTHS OF GEOLOGICAL MARKER			
TYPE OF TOOLS	DEPTH OF DRILLING	Estimated GL: 6035'		Estimated KB: 6049'	
Rotary	0 - TD				
LOG PROGRAM					
TYPE	DEPTH INVERTAL	MARKER		TVD	MD
OPEN HOLE		Ojo Alamo		1534	1534'
None		Kirtland		1682	1682'
		Fruitland		2167	2169'
		Pictured Cliffs	*	2856	2885
		Lewis	#	2934	2967
		Cliff House	#	4383	4433
		Menefee	#	4723	4773
		Point Lookout	#	5109	5159
		Mancos		5423	5473
		Greenhorn		7107	7157
		Bentonite marker		7154	7204
		Two Wells Mbr	#	7213	7263
		Paguate Mbr	#	7294	7344
		Upper Cubero	#	7323	7373
		Lower Cubero	#	7343	7392
		Encinal Canyon	#	7375	7425
		TOTAL DEPTH		7423	7473
		# Probable completion interval		* Possible Pay	
		DRILL CUTTING SAMPLES		DRILLING TIME	
		FREQUENCY	DEPTH	FREQUENCY	DEPTH
		NONE	Casing shoe-TD	Geolograph	0-TD
REMARKS:					
- Please report any flares (magnitude & duration).					

MUD PROGRAM:					
Approx. Interval	Type Mud	Weight, #/gal	Vis, sec/qt	W/L cc's/30 min	Other Specification
0 - 120	Spud	8.6-9.2			
120 - 3073 (1)	Water/LSND	8.6-9.2		<6	
3073 - 7473	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	120	9 5/8"	H-40 ST&C	32#	13.5"	1
Intermediate	3073	7"	J/K-55 ST&C	20#	8.75"	1,2
Production	7473	4 1/2"	J-55	11.6#	6.25"	3,4

REMARKS:

- (1) Circulate Cement to Surface
- (2) Set casing 100' into Lewis Shale
- (3) Bring cement 100' above 7" shoe
- (4) 100' Overlap

CORING PROGRAM:

None

COMPLETION PROGRAM:

Rigless, 3-4 Stage Limited Entry Hydraulic Frac

GENERAL REMARKS:

Notify BLM/NMOCDD 24 hours prior to Spud; BOP testing, and Casing and Cementing.

Form 46 Reviewed by: _____ Logging program reviewed by: N/A

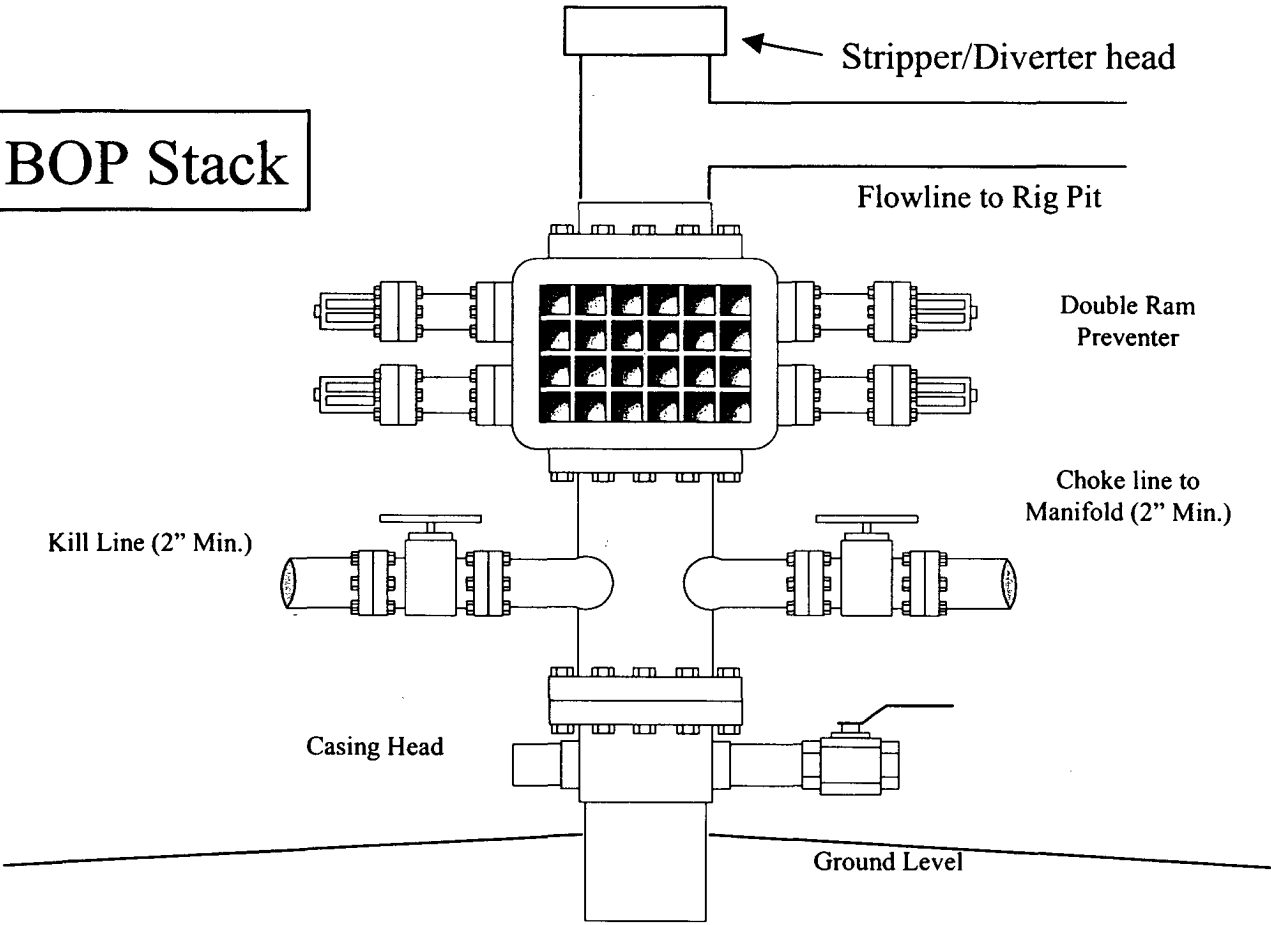
PREPARED BY:	APPROVED:	DATE:
HGJ/MNP/JMP		July 17, 2003
Form 46 12-00 MNP		Version 1.0

BP American Production Company

Well Control Equipment Schematic



BOP Stack



Choke & Kill Manifold

