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

n	(August 1999) UNITED ST DEPARTMENT OF T BUREAU OF LAND N	OMB No. 1004-0136 Expires November 30, 2000 5. Lease Serial No. NMSF - 078502			
	APPLICATION FOR PERMIT	TO DRILL OR REENTER	6. If Indian, Allottee or Tribe	Vame	
<i></i>	1a. Type of Work: DRILL REENTER		7. If Unit or CA Agreement, N	ame and No.	
	1b. Type of Well: ☐ Oil Well ☑ Gas Well ☐ Oth	ner Single Zone 🔀 Multiple Zone	Lease Name and Well No. VANDEWART B 1M		
/	Name of Operator AMOCO PRODUCTION COMPANY Contact:	MARY CORLEY E-Mail: corleym@bp.com	9. API Well No. 30 9	09	
/	3a. Address P.O. BOX 3092 HOUSTON, TX 77253	3b. Phone No. (include area code) Ph: 281.366.4491 Fx: 281.366.0700	10. Field and Pool, or Explorat BASIN DAKOTA/BLAN	ICO MESAVER	
	4. Location of Well (Report location clearly and in accord	ance with any State requirements.*)	11. Sec., T., R., M., or Blk. and	d Survey or Area	
	At surface SESE Tract P 660FSL 880	FEL 36.43200 N Lat, 107.38400 W.Lon	P Sec 14 T29N R8W Me	NMP	
	At proposed prod. zone	750183			
	14. Distance in miles and direction from nearest town or post 23 MILES EAST OF BLOOMFIELD, NEW MEX		12. County or Parish SAN JUAN	13. State NM	
ገ /	15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 660'	16. No. of Acres in cease 320.00 RECEIVED OIL CON. DN	320.00 E/2	this well	
4	18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.	8100 MD	\$20. BLM/BIA Bond No. on fil	e	
	21. Elevations (Show whether DF, KB, RT, GL, etc. 6733 GL	22. Approximate date work will start 01/15/2001	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:		
	 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest Sys SUPO shall be filed with the appropriate Forest Service O 	Item 20 above). 5 Operator certification	ons unless covered by an existing formation and/or plans as may be		
	25. Signature (Electronic Submission)	Name (Printed/Typed) MARY CORLEY		Date 11/02/2001	
	Title AUTHORIZED REPRESENTATIVE				
	Approved by (Signatury) Jim Lovato	Name (Printed/Typed)	n=	Date 2 2001	
	Title	Office		2001	

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.

Additional Operator Remarks (see next page)

Electronic Submission #8452 verified by the BLM Well Information System For AMOCO PRODUCTION COMPANY, sent to the Farmington Committed to AFMSS for processing by Maurice Johnson on 11/08/2001 ()

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

SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS"

** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL **

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

PO Box 2088, Santa Fe, NM 87504-2088

District IV

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

Energy, Minerals & Natural Resources Dens

State of New Mexico

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

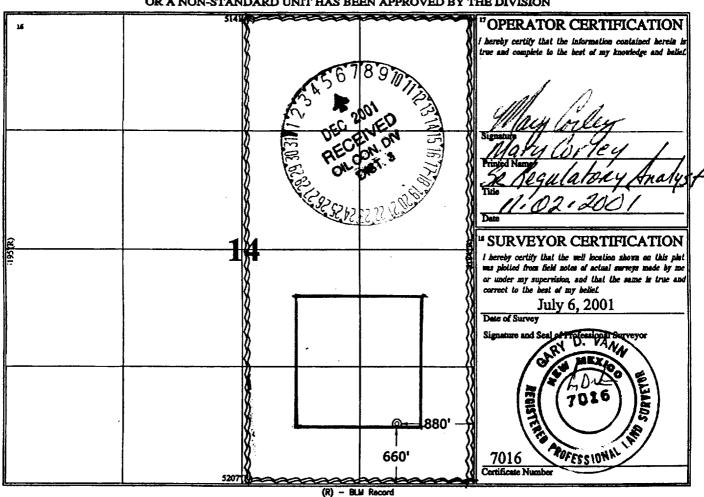
WELL LOCATION AND ACREAGE DEDICATION PLAT

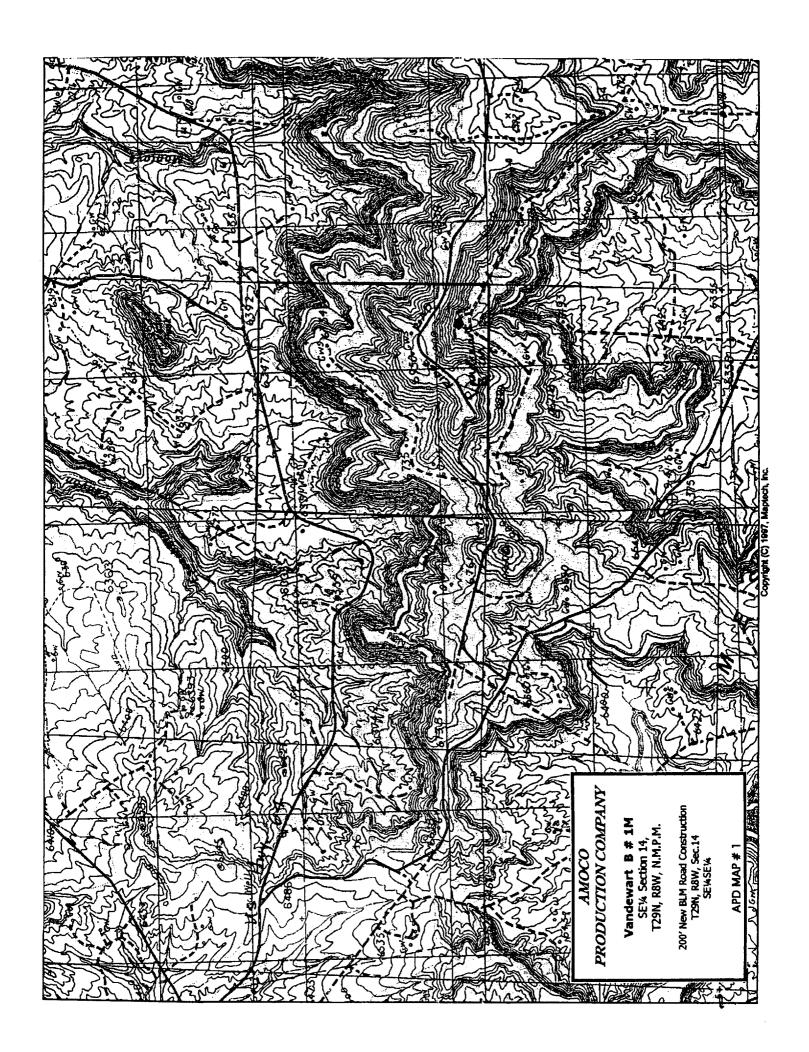
'API Number	•	Pool Code		³ Pool Name	
30-045-3	0904	71599:72319	BASIN DAKOTA	& BIANCO /	ESAUERDE
Property Code			Property Name		6 Well Number
001204	Va	ndewart B			# 1M
1 OGRID No.		•	Operator Name		* Blovation
000778	AN	IOCO PRODUCTI	ON COMPANY		6733

Surface Location

UL or Lot No.	Section 14	Township 29 N	Range 8 W	Lot Idn	Feet from the	North/South line SOUTH	Feet from the	EAST	SAN JUAN	
	11 Bottom Hole Location If Different From Surface									
⁷ UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County	
Dedicated Acres District Infill Consolidation Code Code Code Code Code Code Code Code										
320										

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





AMOCO PRODUCTION COMPANY **DRILLING AND COMPLETION PROGRAM**

Prospect Name:

Vandewart B

Well No: 1M

Lease:

VANDEWART B

14-29N-8W, 660 FSL,880 FEL

County:

San Juan

Surface Location:

State: New Mexico

Blanco Mesaverde/Basin Dakota Field:

Date: November 2, 2001 OBJECTIVE: Drill 400' below the base of the Greenhorn Limestone, set 41/2" production casing, Stimulate CH, MF, PL and DK intervals APPROXIMATE DEPTHS OF GEOLOGICAL MARKER METHOD OF DRILLING Estimated KB: 6747 Estimated GL: 6733 TYPE OF TOOLS DEPTH OF DRILLING MEAS. DEPTH MARKER SUBSEA 0 - TD Rotary 2362 4385 Oio Alamo **LOG PROGRAM** 3437 2566 Fruitland Coal **DEPTH INVERAL TYPE** 3304 3443 **Pictured Cliffs OPEN HOLE** # 3217 3530 Lewis Shale TD to 7" shoe **GR-Induction** 5057 TD to 7" shoe Cliff House # 1690 Density/Neutron # 5234 Menefee Shale 1513 # 1133 5614 Point Lookout CASED HOLE 760 5987 Mancos TDT - TD to 7" shoe **GR-CCL-TDT** 7600 Greenhom -853 Identify 4 1/2" cement top **CBL** -909 7656 Bentonite Marker 7697 Two Wells # -950 REMARKS: -1076 7823 Dakota MB # Please report any flares (magnitude & duration). -1161 7908 **Burro Canyon** Morrison 8100 TOTAL DEPTH -1253 Possible Pay # Probable completion interval **DRILLING TIME** DRILL CUTTING SAMPLES **SPECIAL TESTS** DEPTH **FREQUENCY** DEPTH **FREQUENCY TYPE** 0-TD 10 feet Production hole Geolograph None **REMARKS:**

	ROGRAM: . Interval		Type Mud	Weight, #/ga	Vis, sec/qt	W/L cc's/30 min	Other Specification
0 200 3630	- 200 - 3630 - 8100	(1)	Spud Water/LSND Gas/Air/N2/Mist	8.6-9.2 8.6-9.2 Volume su	fficient to maint	<6 ain a stable and clea	an wellbore

REMARKS:

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

CASING PROGRAM:	CASING PROGRAM: (Normally, tubular goods allocation letter specifies casing sizes to be used. Hole sizes will be governed by Contract)							
Casing String	Estimated	Casing Size	Grade	Weight	Hole Size	Landing Pt, Cmt, Etc.		
	Depth							
Surface/Conductor	200	9 5/8"	H-40 ST&C	32#	12.25"	1 -		
Intermediate 1	3630	7"	J/K-55 ST&C	20#	8.75"	1,2		
Production	8100	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.

Logging program reviewed by: N/A Form 46 Reviewed by: DATE: APPROVED: PREPARED BY: 25 October 2001 Version 1.0 **HGJ/MNP** Form 46 12-00 MNP

Amoco Production Company BOP Pressure Testing Requirements

Well Name: Vandewart B

1M

County: San Juan

State: New Mexico

Formation	TVD	Anticipated Bottom Hole Pressure	Maximum Anticipated Surface Pressure **
Ojo Alamo	2362		
Fruitland Coal	2566		
PC	3443		
Lewis Shale	3530		
Cliff House	5057	500	0
Menefee Shale	5234		
Point Lookout	5614	600	0
Mancos	5987		
Dakota	7697	2600	1283

** Note: Determined using the following formula: ABHP - (.22*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

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.