District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 South First, Artesia, NM 88210 District III

State of New Mexico Energy Minerals and Natural Resources

Form C-101 Revised March 17, 1999

Oil Conservation Division 2040 South Pacheco

Submit to appropriate District Office State Lease - 6 Copies Fee Lease - 5 Copies

1000 Rio Brazos Road, Aztec, NM 87410 District IV Santa Fe, NM 87505 2040 South Pacheco, Santa Fe, NM 87505

		1 (Operator Name	and Address	s			N 22 23	PLUGBAC	OGRID N	umber	
Amoco Production Company P. O. Box 3092							000778					
,			Houston, Texa	as 77253			STG17 18 19	JUL REC	-000	3		30307
³ Property Code 000300						perty Name arnes LS	Name SP OIL CC LS SP DIS			6 Well No. 4B		
		- · · · · · · · · · · · · · · · · · · ·			7 Surf	ace Location	on) <u>.</u>	11.3 C.	#		
UL or lot no.	Section	Township	Range	Lot I	T	Feet from the	North/S	Luk ting	S. Seet from the	East/West	t line	County
E	26	32N	11W			1900'		orth	5.8° 110° 12° 12° 12° 12° 12° 12° 12° 12° 12° 12	Wes	- 1	San Juan
	<u>l </u>	,		Lottom F	Inle L	ocation If l	<u> </u>			*****		Dan Juan
UL or lot no.	Section	Township	Range	Lot I		Feet from the		outh line	Feet from the	East/West	t line	County
		\$ D-	1 D1 1						10.75			
			oposed Pool 1 co Mesaverd	le					" Propos	sed Pool 2		
11 11/2 1 2	- 01		22.00				· · · · · · · · · · · · · · · · · · ·	,		•		
N - No	Type Code ew Drill	_	- Well Type Code Gas		13 Cable/Rotary Rotary/Top Dr				Lease Type Code Fee		15 Ground Level Elevation 6545'	
16 Multiple No			17 Proposed Depth TVD 5984		18 Formation Mesaverde			19 Contractor Aztec		²⁰ Spud Date 08/26/00		Spud Date
1.	<u></u>	l			l Casir	ng and Cen	nent Pr	rogram			Uð	/26/00
Hole Si	ize	Casir					etting Depth		Sacks of Cement		Estimated TOC	
(1) 12 1/4"		9 :	9 5/8"		32.3#		135'		150 SXS CLS B		Surface	
(2)	(2) 8 3/4"		7"		20#		2775'		325 SXS CLS B		Surface	
(3)	6 ¼"	4	4 1/2"		10.5#		5984'		360 SXS CLS A		2675'	
												
·		70.1										
zone. Describe OBJECTIV Lookout in (1) Circulat Mud Progra The hole wi Top set Fru	e the blowout/E: Drill 1 Itervals. I Ite Cement am: 0'-1 135' 2775 Ill require itland to	at prevention 100' into the control of the control	program, if any he Mancos S l Hole (GR- ee (2) Set o Type - Spo Type - Wa Type - Go b keep unloa lost circulat	Use addit Shale, set CCL-TD Casing 50 ud ater/LSN as/Air/M ded whill ion, air v	tional she t 4 ½" I t logs t abov t t t t t t t t t t t t t t t t t t t	ets if necessary Liner across E TDT from The Fruitland. Weight 8.6 Weight 8.6 Volume sur water drilli to maintain	Mesave PBTD (3) I - 9.2 - 9.2 fficient ng. Let	erde, Sti to TOL Liner La to main t hole co	mulate Cliff H GR- CCL fr p should be m tain a stable & nditions dictat	louse, Me rom PDT inimum	enefee. B to S of 100	, and Point Surface.
Completion	: Rigless	, 2 -3 Stag	e Limited E	ntry Hyd	draulic	Frac.						
²³ I hereby certify that the information given above is true and complete to the							OIL CONSERVATION DIVISION					
best of my know Signature:	wledge and	belief.	∞ 0aa	ORU	uco				1			
						Appro	ved by:	1=	-/ Wen			
rinted name: Melissa Velasco-Price							Title: DEFUTY OIL & GAS INSPECTOR, DIST.					
itle: Permitting Assistant						Appro	Approval Date: 7-27-00 Expiration Date: 1 2 7 200					
Date: 07/24/	2000		Phone: 281	-366-254	18	Condit	ions of A	pproval:		-	ے ت	— ~ ∠∪∪
						Attach						

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

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

Certificate Number

State Lease - 4 Copies Fee Lease - 3 Copies

PO Box 2088, Santa Fe, NM 87504-2088 AMENDED REPORT WELL LOCATION AND ACREAGE DEDICATION PLAT Well Number BARNES LS # 4B ¹ Operator Name Elevation AMOCO PRODUCTION COMPANY 6545 **Surface Location** North/South line UL or Lot No. Township Range Section Lot Idn Feet from the Feet from the East/West line County 26 1900 \mathbf{E} 32 N 11 W SAN JUAN NORTH 810 WEST 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 Joint or Infill Consolidation Code 15 Order No. NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD LINIT HAS BEEN APPROVED BY THE **TE DIVISION** 5041(R) OPERATOR CERTIFICATION hereby certify that the information contained herein is ue and complete to the best of my knowledge and belief. - 810' **→** Date SURVEYOR CERTIFICATION ZO 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. June 28, 2000 Date of Survey Signature and Seal of Professional Surveyor PROFESSIONAL 7016

BLM Record

5059 (R)



Amoco Production Company BOP Pressure Testing Requirements

Well Name:

Barnes LS 4B

County:

San Juan

State: New Mexico

Formation	TVD	Anticipated Bottom Hole Pressure	Maximum Anticipated Surface Pressure **		
Ojo Alamo	2006'				
Kirtland	2243'				
Fruitland Coal	2825'				
Pictured Cliffs	3310'				
Lewis Shale	3447'				
Cliff House	5114'	500	0		
Menefee Shale	5208'				
Point Lookout	5612'	600	0		
Mancos	5884'				

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

Requested BOP Pressure Test Exception: 750 PSI

SAN JUAN BASIN Mesaverde Formation Pressure Control Equipment

Background

The objective Mesaverde 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. No abnormal temperature, pressure, or Hydrogen Sulfide gas is 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 750 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 at the appropriate intervals.

