Form 3160-3 (August 1999)

FORM APPROVED OMB No. 1004-0136

DEBAR.	UNITED STATES DEPARTMENT OF THE INTERIOR			Expires November 30, 2000			
BUREAU	5. Lease Serial No. SF - 080917						
APPLICATION FO	OR PERMIT TO DRILL OR REE	NTER	6. If Indian, Allottee or Trib	e Name			
1a. Type of Work: ☑ DRILL ☐ RE	ENTER		7. If Unit or CA Agreement	, Name and No.			
lb. Type of Well: ☐ Oil Well 🔯 Ga	s Well	Zone Multiple Zone	Lease Name and Well No ATLANTIC B LS 5 M).			
2. Name of Operator BP AMERICA PRODUCTION CO	Contact: CHERRY HLAVA		9. API Well No. 30-045-	37 77 89			
3a. Address HOUSTON, TX 77253-3092	3b. Phone No. (include Ph: 281.366.4081	area code)	10. Field and Pool, or Explo BASIN DK & BLANC	oratory 5			
	ly and in accordance with any State require 1875FNL 810FEL 36.84278 N Late 1875FNL 810FEL 36.84278 N Late	, 107.90000 W Lon	11. Sec., T., R., M., or Blk. Sec 5 T30N R10W N	•			
14. Distance in miles and direction from nea 6.7 MILES EAST FROM AZTEC,	rest town or post office* NM	A TOWN CONTRACTOR	12. County or Parish SAN JUAN	13. State NM			
15. Distance from proposed location to neare lease line, ft. (Also to nearest drig. unit I 810	est property or ine, if any) 16. No. of Acres in Lea 322.11		322.11 N	to this well			
18. Distance from proposed location to near completed, applied for, on this lease, ft.	st well, drilling, 19. Proposed Depth 7600 MD 7600 TVD		20 BLM/BIA Bond No. on WY2924	file			
21. Elevations (Show whether DF, KB, RT, 6 6265 GL	GL, etc. 22. Approximate date v 02/15/2005	vork will start	23. Estimated duration 7				
	24. Attac	hments					
 The following, completed in accordance with t Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on Na SUPO shall be filed with the appropriate 	tional Forest System Lands, the	 der No. 1, shall be attached to 4. Bond to cover the operation Item 20 above). 5. Operator certification 6. Such other site specific infrauthorized officer. 	ns unless covered by an existi	· ·			
25. Signature (Electronic Submission)	Name (Printed/Typed) CHERRY HLAVA	A Ph: 281.366.4081		Date 12/31/2004			
Title REGULATORY ANALYST				l			
Approved by Grentley	Name (Printed/Typed)			Date 2-23~0			
Title AFM	Office	5 0					
Application approval does not warrant or certifoperations thereon. Conditions of approval, if any, are attached.	the applicant holds legal or equitable title	to those rights in the subject le	ase which would entitle the ap	plicant to conduct			
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. States any false, fictitious or fraudulent statement	2. Section 1212, make it a crime for any pents or representations as to any matter with	rson knowingly and willfully to in its jurisdiction.	make to any department or ag	gency of the United			
							

Additional Operator Remarks (see next page)

Electronic Submission #52459 verified by the BLM Well Information System For BP AMERICA PRODUCTION COMPANY, sent to the Farmington

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".

District 1
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

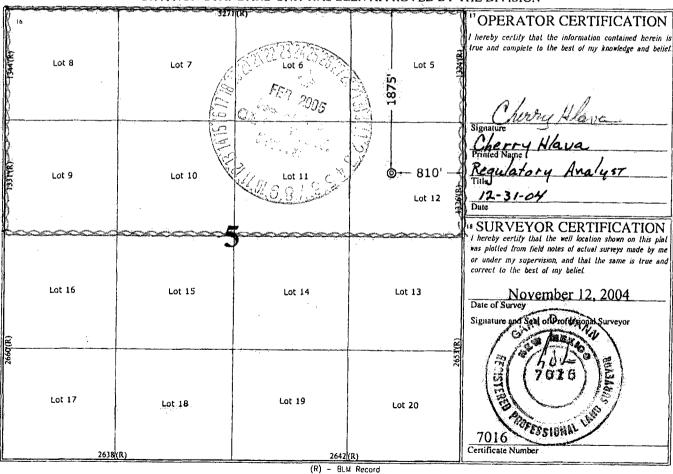
30045-32	789 71599 72319	Basin Datota = Blanco	
Property Code	5	Property Name	4 Well Number
000282	Atlantic B LS		# 5M
OGRID No.	A	Operator Name	* Elevation
000 778	BP AMERICA PROD	UCTION COMPANY	6265

Surface Location

UL or Lot No.	Section	TOWNSHIP	wange.	Lot Idn	rect from the	140/m/domin mic	red from the	East/West tine	County
Lot 12 (H)	5	30 N	10 W		1875	NORTH	810	EAST	SAN JUAN
			" Bott	om Hole	Location If	Different Fron	n Surface		
' UL or lot no.	Section	Township	Range	Lot libi	Feet from the	North/South line	Feet from the	East/West line	County
12 Dedicated Acres	. I'll Ioin	or Infill	Consolidatio	a Costa 19	Order No.				
322.//	2011	t or man	Consolidatio	n Code	Orger No.				

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED

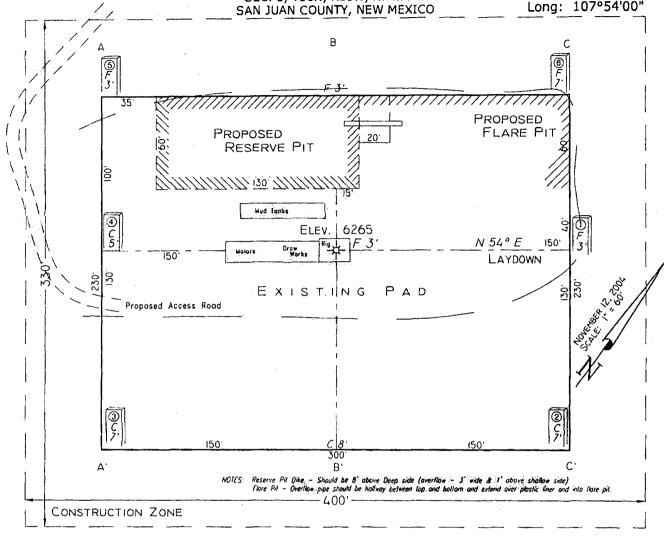
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

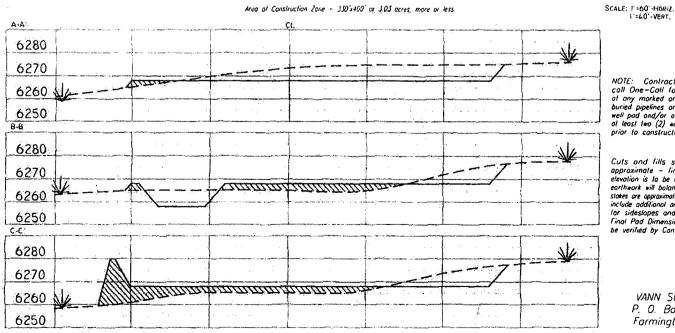


PAD LAYOUT PLAN & PROFILE BP AMERICA PRODUCTION COMPANY Atlantic B LS #5M 1875' F/NL 810' F/EL

SEC. 5, T30N, R10W, N.M.P.M.

Lat: 36°50'34" Long: 107°54'00"





NOTE: Contractor should NOTE: Contractor should call One—Call for location of ony morked or unmarked buried pipelines or cables on well pad and/or access road of least two (2) working days prior to construction.

Cuts and fills shown are approximate - final finished elevation is to be adjusted so earthwork will balance. Corner earthwark will balance. Corner states are approximate and do not include additional areas needed far sidestapes and drainages. Final Pad Dimensions are to be verified by Contractor.

> VANN SURVEYS P. O. Box 1306 Farmington, NM

BP AMERICA PRODUCTION COMPANY DRILLING AND COMPLETION PROGRAM 11/30/2004 Field: Lease. Atlantic B LS Well Name & No. Atlantic B LS #5M Blanco Mesaverde/Basin Dakota Surface Location: 5-30N-10W: 1875' FNL, 810' FEL County: San Juan, New Mexico Minerals: Surface: Lat: 36.8427425 Long:-107.8993737 BH Location: same Aztec 184 Rig: OBJECTIVE: Drill 256' below the top of the Two Wells Mbr, set 4-1/2" production casing. Drill out from beneath casing to a depth. no deeper than 7600', or 70' below casing shoe. Test and produce open hole interval. Stimulate DK, MF, and PL intervals APPROXIMATE DEPTHS OF GEOLOGICAL MARKER METHOD OF DRILLING 6269 TYPE OF TOOLS **DEPTH OF DRILLING** Actual GL: Estimated KB: 6,283.0' APPROX. MD Rotary 0 - TD Marker SUBSEA TVD Ojo Alamo LOG PROGRAM 4,723 1.560 1,560 1,652 Kirtland 4,631' 1,652' **Depth Interval** Type Fruitland 3,927 2,356 2,356' Single Run Fruitland Coal 2,650 2,650' 3,633' Pictured Cliffs 3,362' 2,921' 2,921' # Lewis 3,147 3,136 3,136 Cased Hole Cliff House # 1,869 4,414 4,414 Menefee # TDT- CBL 1,561 4,722 4,722 TD to 7" shoe. (include open hole) Point Lookout # Identify 4 1/2" cement top 1,139 5,144' 5,144' REMARKS: Mancos 737 5,546' 5,546' Greenhorn -885' 7,168 7,168' Graneros (bent,mkr) -934' 7,217 7,217' Two Wells # -991' 7,274 7,274 Paguate # -1.082 7,365 7,365 Cubero # 7,404 7,404 -1,121 L. Cubero # -1,172 7,455 7,455 **Encinal Cyn** # -1,215' 7,498 7,498' casing point -1,247 7,530 7,530' -1,256' 7,539 Burro Canyon # 7,539 TOTAL DEPTH: -1,317 7,600 7,600 * Possible Pay # Probable completion interval SPECIAL TESTS DRILL CUTTING SAMPLES DRILLING TIME TYPE FREQUENCY DEPTH FREQUENCY DEPTH 301/10' intervals 3,236' to TD 0 - TD Geolograph REMARKS: MUD PROGRAM: Interval Tvpe | Mud #/gal Vis. □sec/at /30 min Other Specification 200' Spud 8.8 - 9.0 Sufficient to clean hole. Water/LSND 8.4 - 9.0 Sweep hole while whilst water drilling, LCM onsite 3,236' <9 7,600' 1 1000 cfm for bit Volume sufficient to maintain a stable and clean wellbore CASING PROGRAM: **Casing** □ String Depth Size **Casing Size** Grade, Thread Weight Landing Point Cement Surface/Conductor 200 13 1/2 9-5/8" H-40 ST&C 32# cmt to surface 3,236 8-3/4" J/K-55 ST&C 100' below LWIS Intermediate 1 20# cmt to surface Production 7,530 6-1/4" 4-1/2" 11.6# DKOT J-55 150' inside Intermediate -Open Hole 7,600 TOC survey required **CORING PROGRAM:** None COMPLETION PROGRAM: Rigless, 2-3 Stage Limited Entry Hydraulic Frac, FMC Unihead GENERAL REMARKS: Notify BLM/NMOCD 24 hours prior to Spud, BOP testing, and Casing and Cementing. **BOP Pressure Testing Requirements Formation** Depth Anticipated bottom hole pressure Max anticipated surface pressure** Cliffhouse 4,414 500 **Point Lookout** 5,144 600 0 7,274' Dakota 2600 999.72 Requested BOP Pressure Test Exception = 1500 psi ** Note: Determined using the following formula: ABHP - (.22*TVD) = ASP Form 46 Reviewed by: Logging program reviewed by: PREPARED BY: APPROVED: DATE: APPROVED: DATE: HGJ JLP/JMP 30-Nov-04 Form 46 7-84bw For Drilling Dept. For Production Dept.

Cementing Program

Well Name: Location: County: State:	Atlantic B LS # 5-30N-10W: 1 San Juan New Mexico		FEL		Well Flac Formation: KB Elev (es GL Elev. (e	st) 628		
Casing Program						O. T. I	0 . 0 . 0 .	
Casing String	Est. Depth (ft.)	Hole Size	Casing Size (in.)	Thread	TOC (ft.)	Stage Tool Or TOL (ft.)	Cmt Cir. Out (bbl.)	
Surface	200	13.5	9.625	ST&C	Surface	NA	(DDI.)	
Intermediate	3236	8.75	7	LT&C	Surface	NA		
Production -	7600	6.25	4.5	ST&C	3136	NA		
Casing Propertie	es:	(No Safety F	actor Included)					
Casing String	Size	Weight	Grade	Burst	Collapse	Joint St.	Capacity Drift	
	(in.)	(lb/ft)		(psi.)	(psi.)	(1000 lbs.)	(bbl/ft.) (in.)	
Surface	9.62		2 H-40	3370		1400 25		8.845
Intermediate			0 K-55	3740		2270 23		6.456
Production -	4.	.5 11.	6 J-55	5350		4960 15	4 0.0155	3.875
Mud Program								
Apx. Interval	Mud Type	Mud Weight		Recomm	ended Mud F	Properties Prio Ceme	enting:	
(ft.)		J		PV	<20			
				ΥP	<10			
0 - SCP	Water/Spud	8.6-9.2	2	Fluid Los	:<1 5			
SCP - ICP	Water/LSND	8.6-9.2						
ICP - ICP2	Gas/Air Mist	N/						
ICP2 - TD	LSND	8.6 - 9.2	2	····				
Cementing Progra	am:		Surface		Intermedi	ioto	Draduction	
Excess %, Lead			100		75	ale	Production 40	
Excess %, Tail			NA		0		40	
BHST (est deg. F)		75		120		183	
Special Instructio			1,6,7		1,6,8		2,4,6	
•	1. Do not wash	pumps and lin	es.					
	2. Wash pumps	and lines.						
	3. Reverse out							
	4. Run Blend To							
			Density on 3.5"					
			pressurized mud ent is not circulat					
			o surface, run ten		10-12 hr afta	ar landing plug		
	o. II comercia i	ioi circulated t	o surrace, ruir ten	np. survey	10-12 III. aid	st lationly plug.		
Notes:	*Do not wash u	p on top of plug	g. Wash lines bef	ore displac	ing production	on cement job to min	mize drillout.	
Surface:	<u> </u>			-				
	Preflush		20 bbl.	FreshWat	ter			
	Siurry 1	154	4 sx Class C Cen	nent			195 cuft	
	TOC@Surface		+ 2% CaCl2 (ad				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
				,			0.4887 cuft/ft (OH
Slurry Properties:		Density		Yield		Water		
		(lb/gal)		(ft3/sk)	•	(gal/sk)		
	Slurry 1	15.2	2	1.27		(94,511)	3	
	•							

Cementing Program

Casing Equipment:

Amoco

9-5/8", 8R, ST&C

1 Guide Shoe

1 Top Wooden Plug

1 Autofill insert float valve

Centralizers, 1 per joint except top joint

1 Stop Ring

1 Thread Lock Compound

	Fresh Water	20 bbl	fresh water		
	Lead Slurry 1 TOC@Surface		267 sx Class "G" Cem + 3% D79 extende +1/4 #/sk. Celloph	er	702 cuft
	10000011000		+ 5 lb/sk Gilsonite		
	Tail		59 sx 50/50 Class "G		75 cuft
	Slurry 2	fill	+ 2% gel (extende +1/4 #/sk. Celloph + 2% CaCl2 (acce + 5 lb/sk Gilsonite	ane Flake elerator)	0.1503 cuft/ft OH 0.1746 cuft/ft csg an
Slurry Properties		ensity	Yield	Water	
M 4	(II	/gal)	(ft3/sk)	(gal/sk)	
Slurry 1 Slurry 2		11.4 13.5	2.63 1.27	15.8 5.72	
asing Equipme	n t: 7'	, 8R, ST&C			
	C 1	Stop Ring entralizers one in middl Top Rubber Plug Thread Lock Compound		y third collar	
Production:	Fresh Water	10 bbi	CW100		
	Lead Slurry 1 TOC, 150' above 7"	shoe	170 LiteCrete D961 / D + 0.03 gps D47 an + 0.5% D112 fluid + 0.11% D65 TIC	tifoam	428 cuft

Schlumberger Private

Page 2

12/31/2004

Cementing Program

+0.1% d800, retarder +0.15% D65, dispersant

0.1026 cuft/ft OH

Slurry Properties:	Density	Yield	Water	
Oldiny Proportion.	(lb/gal)	(ft3/sk)	(gal/sk)	0.1169 cuft/ft csg ann
Slurry 1	9.5	2.52	6.38	·
Slurry 2	. 13	1.44	6.5	Top of Mancos
				5546

Casing Equipment:

4-1/2", 8R, ST&C

1 Float Shoe (autofill with minimal LCM in mud)1 Float Collar (autofill with minimal LCM in mud)

1 Stop Ring

Centralizers, as needed 1 Top Rubber Plug 1 Thread Lock Compound

Additional Operator Remarks Atlantic B LS 5M APD

BP America Production Company respectfully requests permission to drill the subject well to a total depth of approximately 7600'. Complete in the Basin Dakota Pool, isolate the Dakota; complete into the Blanco Mesaverde, establish a production rate; drill out the bridge plug and commingle production downhole.

Application for Downhole Commingling authority (NMOCD order R-11363) will be submitted to all appropriate for approval after Permit to Drill has been approved.

If terrain allows it is our intent to pre-set the 9 5/8" casing on the above mentioned well by drilling a surface hole with air/air mist in lieu of drilling mud and the surface casing be cemented with 94.5 cu/ft type I-II, 20% FLYASH, 14.5 PPG, 7.41 gal/sk, 1.61 cf/sk Yield, 80 DEG BHST ready mix cement. If the area will not allow for pre-set the approved cement program will be followed.

SUPPLEMENTAL TO SURFACE USE PLAN

New Facilities:

A 4.5" diameter buried steel pipeline that is +/- 250 feet in length will be constructed. The pipe wall thickness is .156 and the pipe wall strength is 42,000#. It will be adjacent to the access road and tie the well into an existing gas meter operated by BP America Production Company. The pipeline will not be used to transport gas to drill the well. After the well is spud the pipeline will be authorized by a right-of-way issued by El Paso Field Services.

APD/ROW

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 single 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", 2000 psi Single ram preventer with 3000 psi annular preventer and rotating head.

All ram type and annular preventers as well as related control equipment will be hydraulically tested to 250 psi (low pressure) and 1500 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.

BP American Production Company

Well Control Equipment Schematic



