Form 3160-3 (August 1999)

	UNITED STATES		FORM APPROVED OMB No. 1004-0136 Expires November 30, 2000									
	BUREAU OF LAND MANG	DEPARTMENT OF THE INTERIOR OF MAY 6 6 10 13 BUREAU OF LAND MANGEMENT OF THE APPLICATION OF OF PERMIT TO DRILL OR REENETER										
	AITECATION OF ONTERWITE TO DR	ILL ON	RECEIVED	6.	6. If Indian, Allottee or tribe Name							
•	la. Type of Work: X DRILL RE	EENTER	UTU BARMINGTON 1 L	7.	If Unit or CA Agreemer	nt, Name and No						
<i>j</i> -	1b. Type of Well: Oil Well Gas Well Gas Other		Single Zone Multiple Zon	ne 8.	8. Lease Name and Well No. Barnes LS 7N							
•	2. Name of Operator BP AMERICA PRODUCTION COMPANY			9.								
					-045-32828							
	D O DOV 2002 HOUSTON TV 77070 2064	b. Phono 81-366	e No. (include area code) -4081		Field and Pool, or ExploASIN DAKOTA & B.	DIANCO MESAVERDE						
	4. Loction of Well (Report location clearly and in accordance	with any	State requirements.*)	11.	Sec., T., R., M., or Blk,	and survey or Area						
Po	At surface 810' FSL & 745' FWL SWSW	1	ECTION 23 T32N &	•								
F		ESW		/	M							
				12	12. County or Parish 13. State							
	 Distance in miles and direction from nearest town or post office MILES NORTH FROM AZTEC, NM 	CE.		1	N JUAN	NEW MEXICO						
	15. Distance from proposed*		16. No. of Acres in lease									
	Location to nearest		320	320								
	Property or lease line, ft. (Also to nearest drig. Ujnit line, if any) 710'	320	320 10/2									
•	18. Distance from proposed location*		19. Proposed Depth	20. BL	M/BIA Bond No. on file							
	to nearest well, drilling, completed, applied for, on this lease, ft.		7902 [,] MD	WY292	10-10-10-10-10-10-10-10-10-10-10-10-10-1							
		1	7802' TVD									
•	21. Elevations (show whether DF, KDB., RT, GL, etc.		22. Approximate date work wi	ill start*	rt* 23. Estimated duration							
	6362' GL		07/15/05		7 p. vs							
•			24. Attachments		6.3	910 .0 2						
•	The following completed in accordance with the requirements of C	The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:										
						200 100 1000 1000 1000 1000 1000 1000 1						
	 Well plat certified by a registered surveyor. A Drilling Plan. 		20 above).	- 	operations unless covered by an existing bond on tile (see Item							
	 A Surface Use Plan (if the location is on National forest SUPO shall be filed with the appropriate Forest Service Office 		Lands, the 5. Operator certif 6. Such other sit	ncation. te specific	ecific information and/or plans as may be required by the							
			suthorized office	cer.								
			nted/typed)		Date							
		nerry I	liava		; 05/04/2005							
	Title Pagulatory Analyst											
	Regulatory Analyst Approved by (Signature). Name (Pr	rinted/T	uned)		Date /							
	Im las		, peu)		7 31	.05						
م	Title Office	itle Office										
۲۲	Application approval does not warrant or certify the applicant holds	s legal or	equitable title to those rights in the	e subject le	ase which would entitle th	e applicant to conduct						
	Operations thereon. Conditions of approval, if any, are attached.	3		,								
1	Title 18 U.S.C. Section 1001 and title 43 U.S.C. Section 1212, mak any false, fictitious or fraudulent statements or representations as to			willfully to	make to any department of	or agency of the United States						
		,	The second secon									
	*(Instructions on reverse)		1 . 10	,								
	HOLD C104 FOR D	ivec	tional Survey	,								

NMOCD

District ! PO Box 1980, Hobbs NM 88241-1980

District II

PO Drawer KK. Artesia, NM 87211-0719

District III

1000 Rio Brazos Rd., Aziec, NM 87410

District IV

PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico Energy, Minerals & Natural Resources Department

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

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

WELL LOCATION AND ACREAGE DEDICATION PL

'API Number	¹ Pont Code	_ ~	Pool Name	Sh. ,			
30-045-32828	7/599,723/9	Basin Da	Kota: Blanco	Mesaverde			
Property Code	5	Property Name	12.6.00°	Well Number			
000 300	Barnes LS			# 7N			
OGRID No.		* Operator Name					
000778	BP AMERICA PRODUCTION COMPANY						

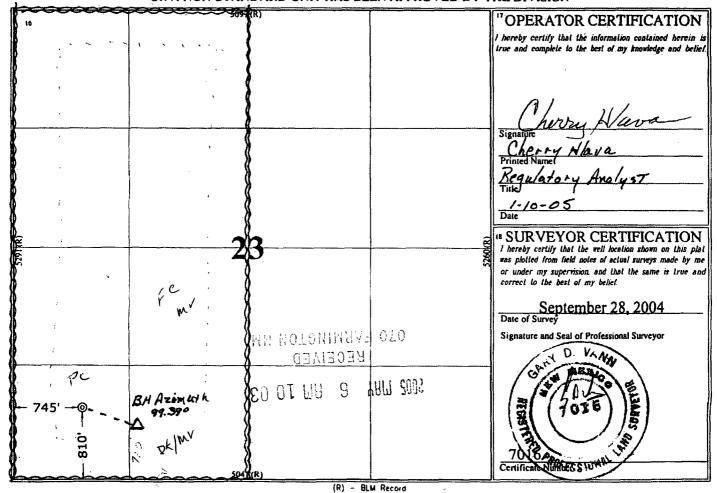
¹⁰ Surface Location

UL or Lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	23	32 N	11 W		810	SOUTH	745	WEST	SAN JUAN

"Bottom Hole Location If Different From Surface

7 UL or lot no.	Section 23	Township 32N	Range //W	Lot Idn	Feet from the	South	Feet from the	East/West line WEST	San Juan
Dedicated Acres 320	1) Jain	corinfill "	Consolidatio	n 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



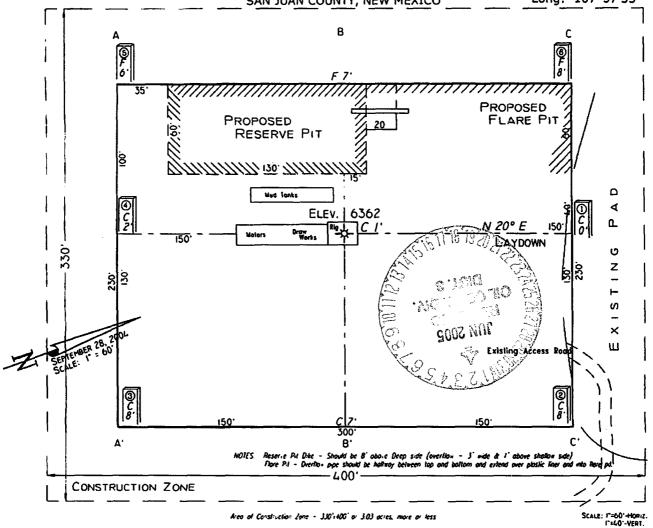
PAD LAYOUT PLAN & PROFILE BP AMERICA PRODUCTION COMPANY Barnes LS #7N

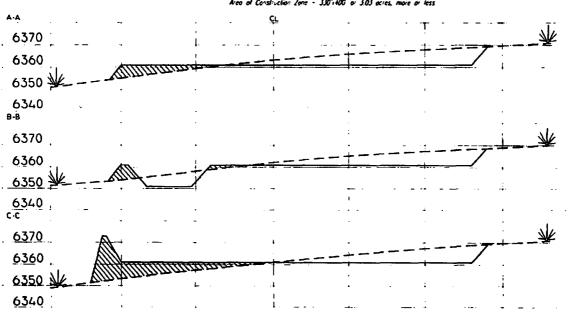
107.96528

36.96556

810' F/SL 745' F/WL SEC. 23, T32N, R11W, N.M.P.M. SAN JUAN COUNTY, NEW MEXICO

Lat: 36°57'56" Long: 107°57'55"





NOTE: Contractor should call One-Call for location of any marked ar unmarked buried pipelines or cables on neil pad and/or access road of least two (2) working days prior to construction

Cuts and fills shown are opproximate - final finished elevation is to be adjusted so certhwart will balance. Corner states are approximate and do not include additional areas needed for sidestippes and do amages final Pad Dimensions are to be retilied by Contractor.

VANN SURVEYS P. O. Box 1306 Formington, NM

Additional Operator Remarks Barnes LS 7N APD

Notice of Staking was submitted on 01/13/05. Surface owner agreement on file at BLM.

BP America Production Company respectfully requests permission to directional drill the subject well to a total MD of approximately 7902' and 7802' TVD. 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 +/- 200 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



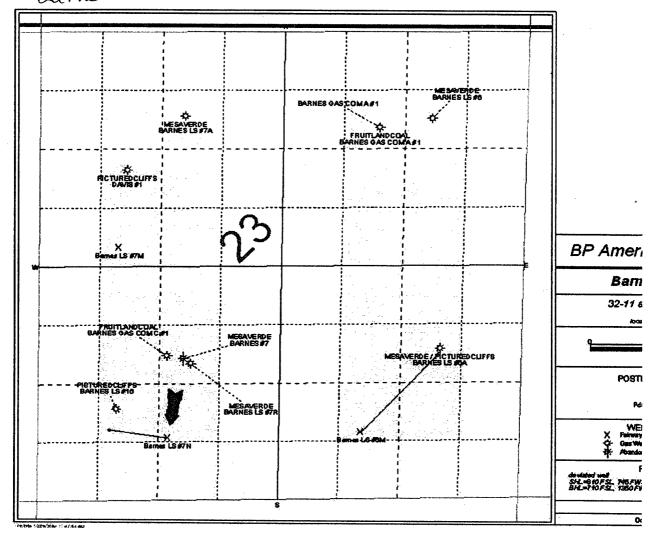
						RICA PRO										
					KILLII	NG AND CO	MPLETIO: 24/2004	N PI	HUG	HAN	<u> </u>		·			
l ease.	Barnes LS				Wall Na	me & No. Barne				· — I	Field:	Blanco I	Mesaver	rde/Basin Dak	ota	
	San Juan,		Mexico			Location: 23-32										
Minerals:		14011	noxico	- •	dilaco	Surface: Lat: 3										
Rig:	Aztec 184				RH	Location: 23-32						70 dea: -10	17 96251	144 dea		
OBJECTIVE:	742.00 101	-	rill 240' bel	low the to		e Two Wells Mbr.										
ODOLO III L	1				op or an	5 1 W 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			-	***						
METHOD OF DRILLING APPROXIMATE DEPTHS OF GEOLOGICAL MARKER TYPE OF TOOLS DEPTH OF DRILLING Actual GL: 6362 Estimated KB: 6,376.0'																
	Rotary			DEI II	0 - TC		Marker	UL.	Ť		SUBSE		TVD	APPRO	K MD	
	Totaly	100	G PROGRA	A D A	0 - 10		Ojo Alamo						1,293'			
T							Kirtland			-	5,083' 5,008'			1,29		
Type				Depth I	ntervai		Fruitland		-	•	3,902'		1,368' 2,474'	1,36 2,52		
Single F	turi						Fruitland Co	al			3,661					
							Pictured Clif			•	3,269		2,715' 3,107'	2,78		
							Lewis		• • • • •					3,19		
Connell			 				Cliff House			#	3,080'		3,296'	3,39		
Cased H				TD 44 7	** ab		Menefee			#	1,749'		4,627'	4,72		
TDT- C	DL		1.3.	TD to 7		• • • • • • • • • • • • • • • • • • • •	Point Lookou			_	1,355'		5,021'	5,12		
DEMARKS.			ıaen	tify 4 1/2"	cemen	і юр	Mancos	,l		#	1,003'		5,373'	5,47		
REMARKS:	ony #====		tudo o dire	ntio-\							646'		5,730'	5,83		
- Please report	any nares (magni		auoπ).			Greenhorn				-1,062		7,438'	7,53		
							Graneros (be	siit,Mi	NI)		-1,115		7,491'	7,59		
							Two Wells			#	-1,186		7,562'	7,66		
							Paguate			#	-1,256		7,632'	7,73		
							Cubero			#	-1,287		7,663'	7,76		
							L. Cubero			#	-1,319		7,695'	7,79		
							Encinal Cyn # TOTAL DEPTH:		#	-1,350		7,726'	7,82			
												7,90	2			
							# Probable						* Possib			
SPECIAL TEST	\$	_					DRILL							NG TIME		
TYPE		_						EQUENCY Start depth to TD FREQUENCY DEP								
None							30'/10' ir	iterva	ls	L	3,493'	Geolo	graph	0-T	D	
REMARKS:				•		*										
MUD PROGRA	····															
Interval	Type□M		#/gai			s, ⊡sec/qt	/30 min Other Specification									
200'	Spud		8.8 - 9.0		Sufficie	nt to clean hole.		ļ								
3,493'	Water/LS	ND	8.4 - 9.0	0			<9						hilst water drilling, LCM onsite			
7,902'	Air		1		1000 c	fm for hammer			Volu	me su	ifficient to m	aintain a st	able and	clean wellbo	re	
CASING PROG	RAM:															
Casing □S	String		Pepth	Siz	ze	Casing Size	Grade, The	read	We	ight	Landing	Point		Cement		
Surface/Conduc	ctor		200'	13 1	1/2"	9-5/8"	H-40 ST	ķС	3	2#			•	cmt to surface		
Intermediate 1		3	3,493'	8-3.	/4"	7"	J/K-55 S1	&C	2	0#	100' belo	w LWIS	(cmt to surface		
Production		7	7,902'	6-1	/4"	4-1/2"	J-55		11	.6#	DK	TC	150' ir	nside Intermed	diate -	
<i>s</i>											150	77777	TOO	C survey requi	red	
CORING PROC	RAM:										13 LD	1-1 (E) 8- 8- 1-	e la			
None										1	<u> </u>		CA			
COMPLETION	PROGRAM	:								100		O Alex	122			
Rigless, 2-3 Sta	ge Limited	Entry I	Hydraulic F	rac, FM	C Unihe	ead			ı	A. Commercial		10.2	C 3	\		
GENERAL REM	ARKS:									1	₹	2.7.6	17	§		
Notify BLM/NM	OCD 24 hou	ırs pric	or to Spud,	BOP tes	ting, an	nd Casing and Ce	menting.			-	انگاوم	J. Gler	م سده آگريب	}		
BOP Pressure	Testina Re	quire	ments							*-		:00				
Format		Γ	Depth		Δn	ticipated bottor	n hole press	ure				7		pressure**		
		 		\dashv										P. OGGUIG		
Cliffhouse 4,627'					500				├	- C. C. C.	2/99750					
Point Lookout 5,373'					600				<u> </u>			0				
Dakota 7,562' 2600 936.36																
	sted BOP I	ressu					ote: Determi	ned u	sing t	he fol	lowing formu	ia: ABHP	- (.22°T	VD) = ASP		
Form 46 Review			Log			viewed by:										
PREPARED BY				AP	PROVE	D:		DATE			APP	ROVED:		DATE:		
HGJ	JMP						24	1-Nov	-04							
Form 46 7-84bv		4		For C	Orilling E	Cent					For Produc	tion Dent	1 1			

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Barnes LS 711





Cementing Program

Well Name: Location: County: State:	Barnes LS #7N 23-32N-11W: San Juan New Mexico	810' FSL, 745' FWL		Well Flac Formation: KB Elev (est) GL Elev. (est)	Blanco Mesave 6376 6362		
Casing Program Casing String Surface Intermediate Production -	: Est. Depth (ft.) 200 3493 7902	Hole Size Casing S (in.) (in.) 13.5 9.62 8.75 7 6.25 4.5	25 ST&C	TOC (ft.) Surface Surface 3393	Stage Tool Or TOL (ft.) NA NA NA	Cmt Cir. Out (bbl.)	
Casing Propertie Casing String Surface Intermediate Production -	Size (in.) 9.62	7 20 K-55	ded) Burst (psi)37 374 535	0 1400 0 2270	254 234	0.0405	
Mud Program Apx. Interval (ft.)	Mud Type	Mud Weight	Recomm PV YP	nended Mud Prop <20 <10	erties Prio Ceme	nting:	
0 - SCP SCP - ICP ICP - ICP2 ICP2 - TD	Water/Spud Water/LSND Gas/Air Mist LSND	8.6-9.2 8.6-9.2 NA 8.6 - 9.2	Fluid Lo				
Cementing Progra Excess %, Lead Excess %, Tail BHST (est deg. F	· ')	Surfa 10 N/ 75	0 A 5	Intermediate 75 0 120		Production 40 40 183	(2) (2)
Special Instructio	1. Do not wash 2. Wash pumps 3. Reverse out 4. Run Blend To 5. Record Rate, 6. Confirm dens 7. 1" cement to	,	n 3.5" disk I mud scales irculated.	1,6,8	nding plug	2,4,6	SON WILL
Notes:		p on top of plug. Wash lin				mize drillout.	95 + ED
Surface:	Preflush	20 bbl.	FreshW	ater			<u></u>
	Slurry 1 TOC@Surface	154 sx Class + 2% Ca	C Cement CI2 (accelerator))		195 cut	•

Schlumberger Private
Page 1

Water

(gal/sk)

5.8

Yield

(ft3/sk)

1.27

Amoco

Slurry 1

Density

(lb/gal)

15.2

Slurry Properties:

Cementing Program

Casing Equipment:

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

-	_		_	_	
8-	tar	-	-41	~*	•

Fresh Water

20 bbl

fresh water

Lead

Slurry 1

TOC@Surface

293 sx Class "G" Cement

+ 3% D79 extender

+1/4 #/sk. Cellophane Flake

+ 5 lb/sk Gilsonite

Tail

Slurry 2

59 sx 50/50 Class "G"/Poz

+ 2% gel (extender)

+1/4 #/sk. Cellophane Flake

+ 2% CaCl2 (accelerator)

+ 5 lb/sk Gilsonite

Slurry Properties:

Density

(lb/gal)

Yield (ft3/sk) Water (gal/sk)

Slurry 1 Slurry 2 11.4

500 ft fill

13.5

2.63 1.27

15.8 5.72

Casing Equipment:

7", 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 one in middle of first joint, then every third collar

1 Top Rubber Plug

1 Thread Lock Compound

Production:

Fresh Water

10 bbl

CW100

Lead

Slurry 1

171 LiteCrete D961 / D124 / D154

+ 0.03 gps D47 antifoam

TOC, 150' above 7" shoe

+ 0.5% D112 fluid loss

+ 0.11% D65 TIC

Tail

Slurry 2

157 sx 50/50 Class "G"/Poz

+ 5% D20 gel (extender)

1572 ft fill

+ 0.1% D46 antifoam

+ 1/4 #/sk. Cellophane Flake

+ 0.25% D167 Fluid Loss

+ 5 lb/sk Gilsonite

Schlumberger Private Page 2

770 cuft

75 cuft

0.1503 cuft/ft OH

0.1746 cuft/ft csg ann



432 cuft

226 cuft

458 fr3

1/11/2005

Amoco

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

