# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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

5. Lease Serial No.

		NM - 0606	
APPLICATION FOR PERMIT	TO DRILL OR REENTER	6. If Indian, Allottee or Trib	oe Name
Ia. Type of Work: ☑ DRILL ☐ REENTER		7. If Unit or CA Agreement	, Name and No.
lb. Type of Well: ☐ Oil Well 🙀 Gas Well ☐ Oth	ner ☐ Single Zone ☑ Multiple Zo	8. Lease Name and Well No ATLANTIC A LS 5M	).
	CHERRY HLAVA	9. API Well No.	
	E-Mail: hlavacl@bp.com	300453	2507
3a. Address P.O. BOX 3092 HOUSTON, TX 77253-3092	3b. Phone No. (include area code) Ph: 281.366.4081 Fx: 281.366.0700	10. Field and Pool, or Explo BASIN DAKOTA & E	oratory 3LANCO MV
4. Location of Well (Report location clearly and in accorded	unce with any State requirements.*)	11. Sec., T., R., M., or Blk.	and Survey or Area
At surface SESW 1170FSL 1650FWL At proposed prod. zone	36.85083 N Lat, 107.85083 W Lon	Sec 26 T31N R10W	Mer NMP
		0.55 V	
14. Distance in miles and direction from nearest town or post 9 MILES EAST FROM AZTEC, NM	10 S	12. County or Parish SAN JUAN	13. State NM
<ol> <li>Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)</li> </ol>	16. No. of Acres in Lease	17. Spacing Unit dedicated	to this well
1170'	1732.68	317.27 5/2	
<ol> <li>Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.</li> </ol>	19. Proposed Depth	20 BLM/BIA Bond No. on	file
1800'	7686 MD	WY2924	
21. Elevations (Show whether DF, KB, RT, GL, etc. 6335 GL	22. Approximate date work will start 09/15/2004	23. Estimated duration 7 DAYS	
	24. Attachments		
The following, completed in accordance with the requirements of	of Onshore Oil and Gas Order No. 1, shall be attach	ed to this form:	
<ol> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location is on National Forest Syst SUPO shall be filed with the appropriate Forest Service Of</li> </ol>	Item 20 above).  Sem Lands, the 5. Operator certification	erations unless covered by an existi  fic information and/or plans as may	·
25. Signature (Electronic Supmission)	Name (Printed/Typed) CHERRY HLAVA		Date 08/05/2004
Title REGULATORY ANALYST			
Approved by (Signature)	Name (Printed/Typed)		Date / 11/2/04
ACTING AAM	Office PFO		
Application approval does not warrant or certify the applicant ho operations thereon.  Conditions of approval, if any, are attached.	lds legal or equitable title to those rights in the subj	ect lease which would entitle the ap	plicant to conduct
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, r States any false, fictitious or fraudulent statements or representat	nake it a crime for any person knowingly and willfuions as to any matter within its jurisdiction.	ally to make to any department or ag	gency of the United
Additional Operator Device of the Control of the Co			
Additional Operator Remarks (see next page)			
Flactronic Submiss	ion #34125 varified by the RI M Well In	formation System	

Electronic Submission #34125 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 42 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

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

\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\*

District I
PO Box 1980, Hobbs NM 88241-1980
District II

District II
PO Drawer KK, Artesia, NM 87211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410

District IV PO Box 2088, Santa Pe, 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 API Number · Blanco Mesaverde # 5M Atlantic A LS Elevation 7 OGRID No. Operator Name BP AMERICA PRODUCTION COMPANY 6335 000778 **Surface Location** North/South line Feet from the Past/West line County Feet from the UL or Lot No. Township Range Lot Idn 1650 South West SAN JUAN 1170 26 10 W N (Lot 6) 31 N Bottom Hole Location If Different From Surface Past/West line <sup>7</sup> UL or lot no. Section Township Lot ldn Feet from the County North/South line 12 Dedicated Acres Joint or Infill 15 Order No. 317.27 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 5252YR "OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief Lot 2 Lot 1 Lot 3 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. Lot 5 Lot 4 June 2, 2004 Date of Survey Signature and Seal of Professional Surveyor 1650' Lot 6

Submit 3 Copies To Appropriate District Office	·=	ew Mexico		Form C- March 4,	
<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240	Energy, Millerals an	nd Natural Resources	WELL API NO		2004
District II	OIL CONSERVA	TION DIVISION	N	IEW WELL	
1301 W. Grand Ave., Artesia, NM 88210 District III		St. Francis Dr.	5. Indicate Type		
1000 Rio Brazos Rd., Aztec, NM 87410		NM 87505	STATE	FEE	
<u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM	Banta I C,	14141 07505	6. State Oil & C	Jas Lease No.	
87505					
SUNDRY NOTICE (DO NOT USE THIS FORM FOR PROPOSAL	ES AND REPORTS ON V		L .	or Unit Agreement Nar tlantic A LS	me
DIFFERENT RESERVOIR. USE "APPLICA"				with BLM NM 0606)	
PROPOSALS.)			8. Well Number		
1. Type of Well: Oil Well  Gas Well  C	Other			5 M	
	Juici		O OCDADA	1	
2. Name of Operator BP AMERICA PRODUCTION CO	<b>`</b>		9. OGRID Nun	iber	
3. Address of Operator			10. Pool name of	or Wildcat	
P.O. BOX 3092 HOUSTON, TX 7	7079-2064		L.	& Blanco Mesaverde	
4. Well Location		<del></del>	· .		
Unit Letter N: 1170	feet from theSouth	line and <u>1650</u>	feet from the We	est line	·
Section 26	Township 21N	Range 10W	NIMDM	SAN JUAN Coun	sta z
	Township 31N 11. Elevation (Show whet			SAN JUAN Coun	ну
Action 1985	11. Elevation (bhow whee	6335'	3.9		
Pit or Below-grade Tank Application (For pi	it or below-grade tank closure	s, a form C-144 must be attac	ned)		
Pit Location: UL N Sect 26 Twp 31	N_Rng_10W_Pit type_Dri	lling_Depth to Groundwater	≥100' Distance from	nearest fresh water well <u>&gt;1</u>	000'
Distance from nearest surface water >1000	)' Below-grade Tank Location	on UL N Sect 26 Tw	p 31N Rng 10W		- 1
					- 1
1270 feet from the South line and 16	665 feet from the West line				
1270 feet from the South line and 16	665_feet from theWest_line				
		PLEASE SEE ATTACHEI	PAD LAYOUT		
12. Check Ap	propriate Box to Indi	PLEASE SEE ATTACHED	PAD LAYOUT		
12. Check Ap	propriate Box to Indic	PLEASE SEE ATTACHED	, Report or Othe	EPORT OF:	
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12. Check Ap NOTICE OF INTE PERFORM REMEDIAL WORK ☐	propriate Box to Indi ENTION TO: PLUG AND ABANDON [	cate Nature of Notice SUI	, Report or Othe	EPORT OF: ALTERING CASING PLUG AND	
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## PAD LAYOUT PLAN & PROFILE BP AMERICA PRODUCTION COMPANY Atlantic A. L.S. # SM // 70 ' F/SL 1450' F/WL

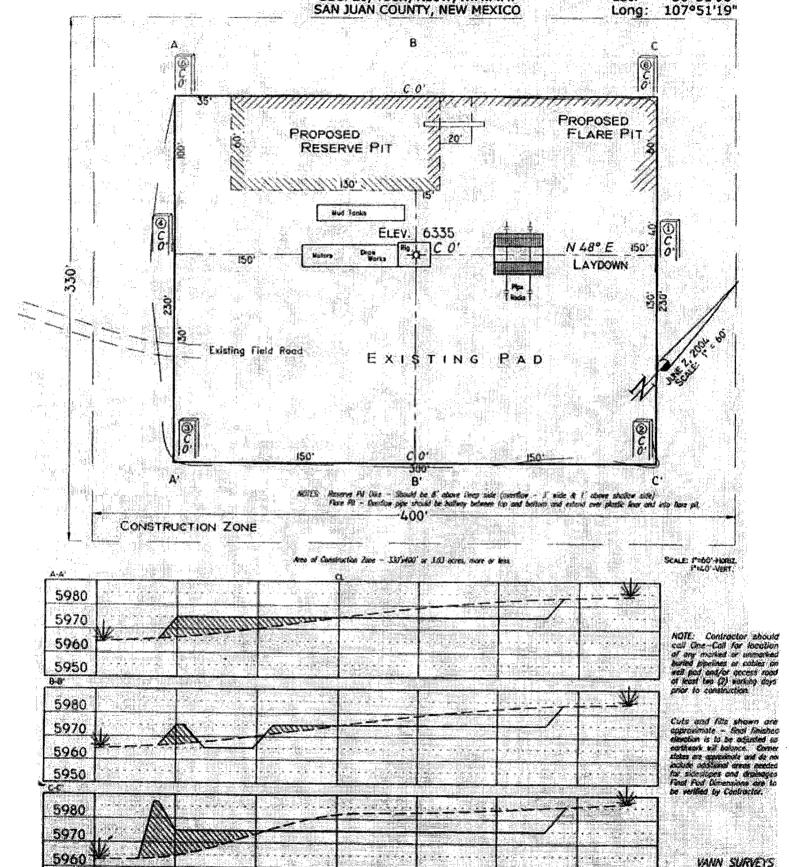
SEC. 26, T31N, R10W, N.M.P.M.
SAN JUAN COUNTY, NEW MEXICO

Lat: 36°51'56"

P. O. Box 1306

Farmington, NM

. . . . . .



5950

•					RICA PRO						-				
				DRILLI	NG AND C	<b>OMPLETIO</b> 21/2004	N F	PROG	RAI	И					
Lease:	Atlantic A I	_S		Well N	ame & No. Atla		l			Field:	Blanco	Mesa	verde/Ba	asin Dak	ota
County:	San Juan,	New Mexico		Surface	Location: 26-	31N-10W:117	) FS	L, 1650	FW	L					
Minerals:	State				Surface: Lat	36.8654809	leg; L	_ong: -1	107.8	548763 deg					
Rig:	Aztec 184			ВН	Location: Ve	tical Hole									
OBJECTIVE:		Drill 250' b	elow the	top of th	ie Two Wells M	or, set 4-1/2" p	roduc	ction ca	sing	, Stimulate D	K, MF, an	id PL ii	ntervals.		
	N	ETHOD OF DR	ILLING				APP	ROXIM	IATE	DEPTHS O	F GEOLO	GICAL	MARKE	ER .	
TYPE	OF TOOLS	3	DEF	TH OF D	RILLING	Actua	I GL:	6,33	5.0'		Estimate	d KB:	6,349.0		
	Rotary			0 - TI	D	Marker				SUBSE	A	TVD		APPROX	K. MD
		LOG PROGR	MAS			Ojo Alamo				4,612'		1,737	'1	1,73	7'
Туре			Depth	interval		Kirtland				4,557'		1,792	2'	1,79	2'
Single F	Run					Fruitland			*	3,790'		2,559	)'	2,55	9'
						Fruitland Co	al		*	3,489'		2,860	)'	2,86	0'
						Pictured Clif	fs		*	3,244'		3,105	3'	3,10	5'
						Lewis			*	3,047'		3,302	?'	3,30	2'
Cased H	ole				-	Cliff House			#	1,759'		4,590	)'	4,59	0'
TDT- CI	BL		TD to	7" shoe		Menefee			#	1,416'		4,933	<u>'</u>	4,93	3'
		lde	ntify 4 1	⁄₂" cemen	nt top	Point Looko	ut	I	#	1,058'		5,291	<u> </u>	5,29	1'
REMARKS:						Mancos				651'		5,698		5,69	
- Please report	any flares (	magnitude & du	ration).			Greenhorn				-981'		7,330	),	7,33	0'
						Graneros (b	ent,m	nkr)		-1,043		7,383		7,38	
						Two Wells			#	-1,087'		7,436		7,43	· · · · · · · · · · · · · · · · · · ·
						Paguate			#	-1,181'		7,530		7,530	
						Cubero			#	-1,217'		7,566		7,566	
						L. Cubero			#	-1,236'		7,585		7,58	
						Encinal Cyn	_		#	-1,276'		7,625		7,62	
						TOTAL				-1,337'		7,686		7,686	<u> </u>
					<del></del>	# Probable	<u> </u>						sible Pay		
SPECIAL TEST	5	,=				<del></del>		TING					LING TI		
TYPE None						30'/10' ir				DEPTH 402 - TD		UENC		DEPT 0 - TI	
REMARKS:													·		
MUD PROGRAI							,								
Interval	Type □M				is, ⊑sec/qt	/30 min				Othe	r Specific	cation			
200'	Spud	8.8 - 9		Sumicie	ent to clean hole						-4 1	(81)	. 014	•4	
3,402'	Water/LS		.0	4000	-6 6 b	<9		Malan		ep hole while					
7,686'	Air	1		1000 0	ofm for hammer			Volun	ne su	ifficient to ma	aintain a s	table a	nd clean	wellbor	е
CASING PROG			г			т		T				·			
Casing □ S		Depth		ize	Casing Size	Grade, Thi		Wei	_	Landing	Point	ļ		nent	
Surface/Conduc	tor	200'		3 1/2"	9-5/8"	H-40 ST8		32		40011		—-		surface	
Intermediate 1		3,402'		-3/4"	7"	J/K-55 ST	&C	20		100' belov		<del> </del>		surface	
Production		7,686'	6-	-1/4"	4-1/2"	J-55		11.0	O#F	DKC	/1	1	' inside Ir OC surve		
CORING PROG	RAM:													· 1-2	
None		<del></del>													
COMPLETION I											*				
Rigless, 2-3 Sta GENERAL REM		ntry Hydraulic	Frac, F	MC Unihe	ead	_								<del></del>	
Notify BLM/NMC		rs prior to Spud	BOP te	esting, an	nd Casing and C	ementing.	- Acc								
BOP Pressure				- Yi-											
Formati	on	Depth		An	ticipated botto	m hole press	ure			Max an	ticipated	surfac	e pressu	ıre**	
Cliffhou	se	4,590'			50						<del></del>	0			
Point Loo		5,291'			60							0			
Dakota		7,436'			26			-				64			
		ressure Test Ex	cention	= 1500 n			ned u	sing th	e fall	owing formul			TVD\ = 1	ASP	
Form 46 Review					viewed by:	TOTO. Determin	iou u	onig ur	J 1011	ormig formul	a. ADITE				
PREPARED BY		1		PPROVE		_	DATE		_	APPI	ROVED:	$\neg \neg$		DATE:	
	JMP	<u> </u>					I-Jul-			/***					
Form 46 7-84bw			For	Drilling D	Dept.					For Producti	on Dept.				

\* \* \*

### .Additional Operator Remarks:

Notice of Staking was submitted on 07/20/2004. The N.o.S. may have been submitted with a location of 1650' FSL & 1150' FEL.

This is corrected to: 1170' FSL & 1650' FWL.

This well is staked on an existing pad that was never drilled.

BP America Production Company respectfully requests permission to drill the subject well to a total depth of approximately 7686 feet and complete into the Basin Dakota Pool, produce the well to establish a production rate, perform a deliverability test, isolate the Dakota then complete into the Blanco Mesaverde Pool and commingle production downhole.

#### SUPPLEMENTAL TO SURFACE USE PLAN

New Facilities:

A 4 diameter buried steel pipeline that is + or - 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 Services.

If conditions allow, 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.

APD/ROW

### Cementing Program

Well Name:	Atlantic A LS 5	VI	. =		Field:	Blanco Mes	saverde / Ba	sin Dakota
Location: County: State:	26-31N-10W:11 San Juan New Mexico	170' FSL, 1650	r FWL		Well Flac Formation:	Dakota Mes	saVerde	
					KB Elev (est) GL Elev. (est)	6349 6335		
Casing Progra Casing String	am: Est. Depth (ft.)	Hole Size	Casing Size (in.)	Thread	TOC (ft.)	Stage Tool Or TQL (ft.)	Cmt Cir. Ou	t
Surface ntermediate Production -	200 3402 7686	13.5 8.75 6.25	9.625 7 4.5	ST&C ST&C ST&C	Surface Surface 3302	NA NA NA	, (001.)	
Casing Prope Casing String			actor Included Grade		Collapse (psi.)	Joint St. (1000 lbs.)	Capacity (bbl/ft.)	Drift (in.)
Surface Intermediate Production -	9.62	5 ' (	32 H-40 20 K-55 .6 J-55	2270 3740 5350	1400	254 254	0.0787 0.0405	8.845 6.331 3.875
Mud Program Apx. Interval (ft.)	Mud Type	Mud Weight		Recomm PV YP	ended Mud Pro <20 <10	perties Prio	Cementing:	
0 - SCP SCP - ICP ICP - ICP2 ICP2 - TD	Water/Spud Water/LSND Gas/Air Mist LSND	8.6-9 8.6-9 N 8.6 - 9	.2 IA	Fluid Los	s: <15			
Cementing Pro	ogram:		Surface		Intermediate		Production	
Excess %, Lea Excess %, Tail	l .		100 NA		75 0		40 40	
BHST (est deg Special Instruc	ctions		75 1,6,7		128 1,6,8		190 2,4,6	
	Do not wash     Wash pumps		es.					
	Reverse out     Run Blend T	est on Cement		F 9 -4:1.				
	5. Record Rate 6. Confirm dens 7. 1" cement to	sitometer with p	pressurized mu	d scales				
	8. If cement is r				y 10-12 hr. afte	r landing plu	g.	
Notes:	*Do not wash u	p on top of plu	g. Wash lines l	pefore displ	acing productio	n cement jot	b to minmize	drillout.
Surface:	Preflush		20 bbl.	FreshWa	ater			
	Slurry 1 TOC@Surface	10	60 sx Class C ( + 2% CaCl2	Cement (accelerate	or)		203.2	
	•						0.4887	cuft/ft OH
							0.1001	
Slurry Properti		Density (lb/gal)	,	Yield (ft3/sk)		Water (gal/sk)	_	
Slurry Properti	ies: Slurry 1	(lb/gal)			7		_	
	Slurry 1	(ib/gal) 15 9-5/8", 8R, 3 1 Guide Sho	ST&C	(ft3/sk)	7	(gal/sk)	_	
	Slurry 1	(lb/gal) 15 9-5/8", 8R, 8 1 Guide Sho 1 Top Wood	ST&C	(ft3/sk)	7	(gal/sk)	_	
	Slurry 1	(lb/gal) 9-5/8", 8R, 5 1 Guide Sho 1 Top Wood 1 Autofill ins Centralizers	ST&C pe ien Plug	(ft3/sk) 1.27	1	(gal/sk)	_	
Casing Equipn	Slurry 1	9-5/8", 8R, 5 1 Guide Sho 1 Top Wood 1 Autofill ins Centralizers 1 Stop Ring	ST&C be den Plug dert float valve	(ft3/sk) 1.27	1	(gal/sk)	_	
Casing Equipn	Slurry 1	9-5/8", 8R, 5 1 Guide Sho 1 Top Wood 1 Autofill ins Centralizers 1 Stop Ring	ST&C be len Plug ert float valve , 1 per joint exc	(ft3/sk) 1.27	it	(gal/sk)	_	
Casing Equipn	Slurry 1	9-5/8", 8R, 5 1 Guide Sho 1 Top Wood 1 Autofill ins Centralizers 1 Stop Ring	ST&C set len Plug sert float valve , 1 per joint exc ck Compound	(ft3/sk) 1.21 cept top join fresh wa	it iter	(gal/sk)		cuft
Casing Equipn	Slurry 1 ment: Fresh Water	9-5/8", 8R, 5 1 Guide Sho 1 Top Wood 1 Autofill ins Centralizers 1 Stop Ring	ST&C set len Plug sert float valve , 1 per joint exc ck Compound	(ft3/sk) 1.27 rept top join fresh wa 90 sx Class + 3% D7 + 2% S1	it "G" Cernent 9 extender Calcium Chlori	(gal/sk) 5.8	_	cuft
Casing Equipn	Slurry 1 nent:  Fresh Water  Lead Slurry 1 TOC@Surface	9-5/8", 8R, 5 1 Guide Sho 1 Top Wood 1 Autofill ins Centralizers 1 Stop Ring	ST&C Jen Plug len Plug len Plug lent float valve , 1 per joint exc cck Compound 20 bbl	(ft3/sk) 1.2: 1.2: rept top join fresh wa 90 sx Class + 3% D7 + 2% S1 + 1/4 #/s	it "G" Cement 9 extender Calcium Chlori k. Cellophane F 446 antifoam"	(gal/sk) 5.8	756.9	
Casing Equipn	Slurry 1 ment:  Fresh Water  Lead Slurry 1 TOC@Surface  Tail Slurry 2	(lb/gal) 15 9-5/8" 8R, \$1 Guide Sh, 1 Top Wood 1 Autofill ins Centralizers 1 Stop Ring 1 Thread Lo	ST&C Jen Plug len Plug len Plug lent float valve , 1 per joint exc cck Compound 20 bbl	(ft3/sk) 1.21 rept top join fresh wa 90 sx Class + 3% D7 + 2% S1 + 1/4 #/s + 10.1% I 50 sx 50/50 + 2% qe	ter "G" Cernent 9 extender Calcium Chlori k. Cellophane F 464 antifoam" Class "G"/Poz ([extender)	(gal/sk) 5.8	756.9 76.2	cuft
Casing Equipn	Slurry 1 ment:  Fresh Water  Lead Slurry 1 TOC@Surface  Tail Slurry 2	9-5/8", 8R, 5 1 Guide Sho 1 Top Wood 1 Autofill ins Centralizers 1 Stop Ring	ST&C Jen Plug len Plug len Plug lent float valve , 1 per joint exc cck Compound 20 bbl	(ft3/sk) 1.27 rept top join fresh wa 90 sx Class + 3% D7 + 2% S1 + 114 #/s + 0.1% I 50 sx 50/50 + 2% ge 0.1% D4 + 1/4 #/s	ter "G" Cement '9 extender Calcium Chlori K. Cellophane F 246 antifoam Class "G"Poz	(gal/sk) 5.8  ide	756.9 76.2 0.1503	
Casing Equipn	Slurry 1 ment:  Fresh Water  Lead Slurry 1 TOC@Surface  Tail Slurry 2 50	(lb/gal) 15 9-5/8" 8R, S 1 Guide Shc 1 Top Wook 1 Top Wook 1 Autofill ins Centralizers 1 Stop Ring 1 Thread Lo	ST&C Jen Plug len Plug len Plug lent float valve , 1 per joint exc cck Compound 20 bbl	(ft3/sk) 1.27 rept top join fresh wa 90 sx Class + 3% D7 + 2% S1 + 1/4 #/s + 0.1% I 5 sx 50/35 + 2% ge 0.1% D4 + 1/4 #/s + 2% Ce Yield	ter "G" Cement 9 extender Calcium Chlori X. Cellophane F 246 antifoam Class "G"Poz (extender) 6 antifoam k. Cellophane F	(gal/sk) 5.8 5.8 ide ilake ir) Water	756.9 76.2 0.1503	cuft cuft/ft OH
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Casing Equipn Intermediate: Slurry Properti Slurry 1 Slurry 2	Slurry 1 ment:  Fresh Water  Lead Slurry 1 TOC@Surface  Tail Slurry 2 50 ies:	(lb/gal)  9-5/8" 8R, \$1 Guide Shi 1 Top Wood 1 Autofill ins Centralizers 1 Stop Ring 1 Thread Lo	ST&C De Hen Plug Hen Plug Hent float valve The per joint exc Henck Compound  20 bbl	(ft3/sk) 1.27 fresh wa 90 sx Class + 3% D7 + 2% S1 + 11/4 l/s + 0.1% lo 50 sx 50/55 + 2% ge 0.1% D4 + 1/4 l/s + 2% Ce Yield (ft3/sk)	ter "G" Cement 9 extender Calcium Chlori X. Cellophane F 246 antifoam Class "G"Poz (extender) 6 antifoam k. Cellophane F	(gal/sk) 5.8 5.8 dde iake iake (gal/sk)	756.9 76.2 0.1503	cuft cuft/ft OH
Casing Equipm Intermediate: Slurry Properti Slurry 1 Slurry 2	Slurry 1 ment:  Fresh Water  Lead Slurry 1 TOC@Surface  Tail Slurry 2 50 ies:	(lb/gal)  9-5/8" - 8R . S 1 Guide Sho 1 Top Wood 1 Autofill ins Centralizers 1 Stop Ring 1 Thread Lo  of t fill  Density (lb/gal) 11.4 13.5 7", 8R, ST& 1 Float Sho	ST&C De Jen Plug Jen Plug Jen Flug Jen	(ft3/sk) 1.27 rept top join fresh wa 90 sx Class + 3% D7 + 2% S1 + 1/4 #/s + 0 sx 50/55 + 2% ge 0.1% D4 + 1/4 #/s + 2 Ca Yield (ft3/sk) 2.61 1.27	ter "G" Cement '9 extender Calcium Chlori K. Cellophane F 246 antifoam K. Cellophane F Cil2 (accelerato	(gal/sk) 5.8  dde lake r)  Water (gal/sk) 17.77	756.9 76.2 0.1503	cuft cuft/ft OH
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Casing Equipn Intermediate: Slurry Properti Slurry 1 Slurry 2	Slurry 1 ment:  Fresh Water  Lead Slurry 1 TOC@Surface  Tail Slurry 2 50 ies:	(lb/gal)  9-5/8" - 8R, S 1 Guide Sht 1 Top Wood 1 Autofill ins Centralizers 1 Stop Ring 1 Thread Lo  of t fill  Density (lb/gal) 11.4 13.5  7", 8R, ST& 1 Float Colin 1 Stop Ring 1 Stop Ring 1 Centralizers 2 Fluidmast	ST&C De Jen Plug Jen Plug Jent float valve To per joint exc Jeck Compound  20 bbl  C  C  a (autofill with r  ar (autofill with  ers (one in middler vane centalia  er vane centalia	(ft3/sk) 1.27 rept top join fresh wa 80 sx Class + 3% D7 + 2% S1 + 11/4 #/s + 0.1% D4 + 12% Ge 0.1% D4 + 12% Cc Yield (ft3/sk) 1.27	iter  "G" Cement 9 extender Calcium Chlori k. Cellophane F 4 in mud) M in mud) oint, then every	(gal/sk) 5.8 side elake r) Water (gal/sk) 17.77 5.72	756.9 76.2 0.1503	cuft cuft/ft OH
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Casing Equipm Intermediate: Slurry Properti Slurry 1 Slurry 2 Casing Equipm	Slurry 1 nent:  Fresh Water  Lead Slurry 1 TOC@Surface Tail Slurry 2 50	(lb/gal) 15 9-5/8" 8R, \$1 Guide Shi 1 Top Wood 1 Autofill ins Centralizers 1 Stop Ring 1 Thread Lo  of t fill  Density (lb/gal) 11.4 13.5 7", 8R, ST& 1 Float Sho	C autofill with rar (autofill wi	(ft3/sk) 1.27 rept top join fresh wa 80 sx Class + 3% D7 + 2% S1 + 11/4 #/s + 0.1% D4 + 12% Ge 0.1% D4 + 12% Cc Yield (ft3/sk) 1.27	iter  "G" Cement 9 extender Calcium Chlori k. Cellophane F 4 in mud) M in mud) oint, then every	(gal/sk) 5.8 side elake r) Water (gal/sk) 17.77 5.72	756.9 76.2 0.1503	cuft cuft/ft OH
Casing Equipm Intermediate: Slurry Properti Slurry 1 Slurry 2 Casing Equipm	Slurry 1 nent:  Fresh Water  Lead Slurry 1 TOC@Surface Tail Slurry 2 50	(lb/gal) 15 9-5/8" 8R, S1 Guide Shi- 1 Top Wood 1 Autofill ins Centralizers 1 Stop Ring 1 Thread Lo  Of t fill  Density (lb/gal) 11.4 13.5 7", 8R, ST& 1 Float Sho 1 Float Sho 1 Float Sho 1 Float Sho 1 Stop Ring 14 Centralize 2 Fluidmast 1 Top Rubb 1 Thread Lo	CC acutofill with rar (autofill with ar value centalizer value centalizer che (compound	(ft3/sk) 1.27  rept top join  fresh wa  so sx Class + 3% D7 + 2% S1 + 1/4 #/s + 0.1% h 60 sx 50/50 + 2% ge 0.1% D4 + 1/4 #/s + 2% CE Yield (ft3/sk) 2.61 1.27  containinal LCN minimal LCN minimal LCN containinal LCN contain	iter  "G" Cement 9 extender Calcium Chlori k. Cellophane F 4 in mud) M in mud) oint, then every	(gal/sk) 5.8  tide clake r) Water (gal/sk) 17.77 5.72  third collar)	756.9 76.2 0.1503	cuft/ft OH cuft/ft csg a
Casing Equipm Intermediate: Slurry Properti Slurry 1 Slurry 2 Casing Equipm	Slurry 1 nent:  Fresh Water  Lead Slurry 1 TOC@Surface  Tail Slurry 2 50 ies:  Fresh Water  Lead Slurry 1 TOC. 100 abov  Tail Slurry 2	(lb/gal) 15 9-5/8" 8R, S1 Guide Shi- 1 Top Wood 1 Autofill ins Centralizers 1 Stop Ring 1 Thread Lo  Of t fill  Density (lb/gal) 11.4 13.5 7", 8R, ST& 1 Float Sho 1 Float Sho 1 Float Sho 1 Float Sho 1 Stop Ring 14 Centralize 2 Fluidmast 1 Top Rubb 1 Thread Lo	CC e (autofill with rar (autofill with ers (one in mider Pung cek Compound 20 bbl 29 bbl 20 bbl 29 bbl 20 b	(ft3/sk) 1.27  fresh wa  so sx Class + 3% D7 + 2% 51 + 1/4 #/s + 0.1% 65  sx 50/50 + 2% ge 0.1% D4 + 1/4 #/s + 2% Ge Clib D4 + 1/4 #/s + 2% C2  Yield (ft3/sk) 2.61 1.27  containimal LCC  CW100  So LiteCrete + 0.03 g + 0.5% 61 + 0.11% 50 sx 50/50 + 5% 62 + 0.1% 14 + 1/4 #/s	iter  "G" Cement 9 extender Calcium Chlori k. Cellophane F 46 antifoam I Class "G"/Poz (extender) 6 antifoam K. Cellophane F CI2 (accelerato  M in mud) M in mud) M in mud) oint, then every e of Ojo  a D961 / D124 / ps D47 antifoam 112 fluid loss D65 TiC Class "G"/Poz Class "G"/Poz Class "G"/Poz Ogel (extender) 346 antifoam	(gal/sk) 5.8  de elake r)  Water (gal/sk) 17.77 5.72  third collar)	756.9 76.2 0.1503 0.1746	cuft cuft/ft OH cuft/ft csg a  cuft  cuft  cuft 4 gilsonite 55 TIC
Casing Equipm Intermediate: Slurry Properti Slurry 1 Slurry 2	Slurry 1 nent:  Fresh Water  Lead Slurry 1 TOC@Surface  Tail Slurry 2 50 ies:  Fresh Water  Lead Slurry 1 TOC, 100 above  Tail Slurry 2 148	(lb/gal)  9-5/8" 8R, \$1 Guide Shid 1 Top Wood 1 Autofill ins Centralizers 1 Stop Ring 1 Thread Lo  of fill  Density (lb/gal) 11.4 13.5  7", 8R, ST& 1 Float Stop Ring 14 Centralizers 2 Fluidmast 1 Top Rubb 1 Thread Lo	CC e (autofill with rar (autofill with ers (one in mider Pung cek Compound 20 bbl 29 bbl 20 bbl 29 bbl 20 b	(ft3/sk) 1.27  fresh wa  so sx Class + 3% D7 + 2% 51 + 1/4 #/s + 0.1% 65  sx 50/50 + 2% ge 0.1% D4 + 1/4 #/s + 2% Ge Clib D4 + 1/4 #/s + 2% C2  Yield (ft3/sk) 2.61 1.27  containimal LCC  CW100  So LiteCrete + 0.03 g + 0.5% 61 + 0.11% 50 sx 50/50 + 5% 62 + 0.1% 14 + 1/4 #/s	der "G" Cerment 9 extender Calcium Chlori k. Cellophane F 4646 antifoam' (Class "G"/Poz 16 antifoam k. Cellophane F 16 antifoam M in mud) M in mud) Oint, then every e of Ojo  10 20 47 antifoam 112 fluid loss 1055 TiC Class "G"/Poz 10 gel (extender	(gal/sk) 5.8  de elake r)  Water (gal/sk) 17.77 5.72  third collar)	756.9 76.2 0.1503 0.1746 403.2 + 5 #/sk DZ + 5 #/sk DZ + 0.1% D8(+	cuft cuft/ft OH cuft/ft csg a  cuft  cuft  cuft 4 gilsonite 55 TIC

### Cementing Program

Slurry 1 Slurry 2

. .

9.5 13

6.38 6.5 Top of Mancos 5698

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
Stop Ring
Centralizers, every 4th joint
1 Top Rubber Plug
1 Thread Lock Compound

2.52 1.44

Amoco

8/12/2004

# 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**

<u>Interval</u>

**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.

# **BP** America Production Company



