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Form 3160-3 (August 1999) UNITED ST DEPARTMENT OF T		FORM APPROVED OMB No. 1004-0136 Expires November 30, 2	5
BUREAU OF LAND		5. Lease Serial No. SF - 077123	
APPLICATION FOR PERMIT	TO DRILL OR REENTER	6. If Indian, Allottee or Tribe Name	÷
1a. Type of Work: ☑ DRILL ☐ REENTER		7. If Unit or CA Agreement, Name	and No.
	ner 🔲 Single Zone 🔀 Multiple Zone	Lease Name and Well No. WARREN LS 5M	
	CHERRY HLAVA E-Mail: hlavacl@bp.com	9. API Well No. 30 045 3 2 S	533
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 Exploratory BASIN DAKOTA & BLANC	O MV
At proposed prod. zone \$30 \\footnote{560}	36.63500 N Lat, 107.73361 W Fon	Sec 24 T28N R9W Mer NN	-
14. Distance in miles and direction from nearest town or post 19.5 MILES S/E FROM AZTEC, NM	and the second	12. County or Parish SAN JUAN	13. State NM
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 1000'	16. No. of Acres in Lease	320.00 E	well
 Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 	19. Proposed Depth	20. BLM/BIA Bond No. on file WY2924	
21. Elevations (Show whether DF, KB, RT, GL, etc. 5809 GL	22. Approximate date work will start 10/25/2004	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 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 Syssup SUPO shall be filed with the appropriate Forest Service Of 	Item 20 above). 5. Operator certification	ns unless covered by an existing bond formation and/or plans as may be requ	•

- authorized officer.

25. Signature (Electronic Submission)	Name (Printed/Typed) CHERRY HLAVA	Date 08/11/2004
REGULATORY ANALYST		
Anneoused By (Cignoture)	Nama (Printed/Tymad)	I Doto

Office

<u>norale</u> 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 #34410 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 CFA 3165.3 and appeal pursuant to 43 CFB 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

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

¹ API Number	7/599:723/9 Basin Dakota: Blance	. "
4 Property Code	5 Property Name	6 Well Number
001212	Warren LS	# 5M
OGRID No.	¹ Operator Name	* Elevation
000778	BP AMERICA PRODUCTION COMPANY	5831

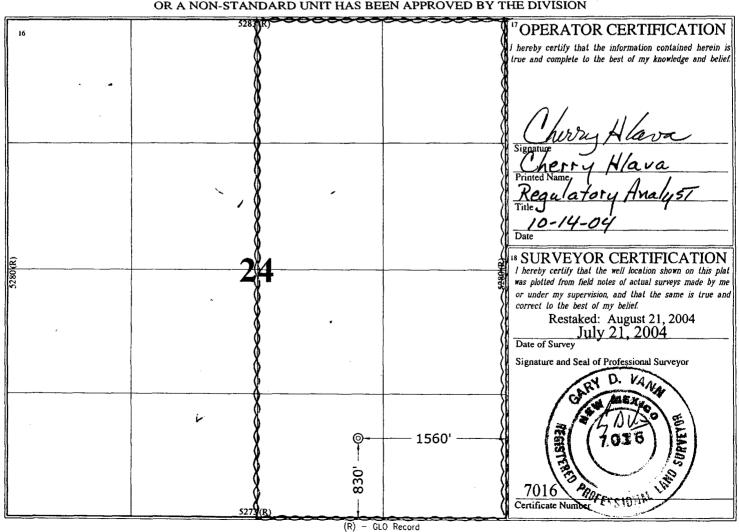
Surface Location

UL or Lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	24	28 N	9 W		830	SOUTH	1560	EAST	SAN JUAN

¹¹ 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
										1
				1	1					
 - ,		13 Inia	tos lofill H		n Code 15		L			
- 1	Dedicated Acres	,, Join	t or Infill 14	Consolidation	on Code	Order No.				
-	3 20	1	j							
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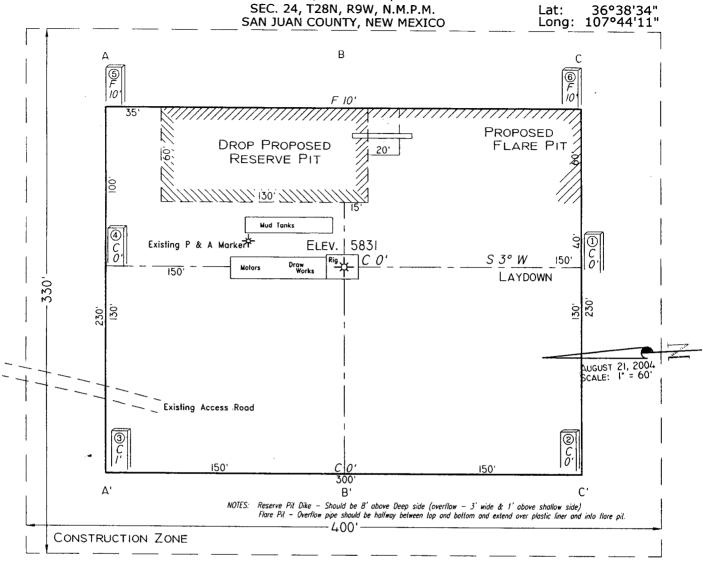
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

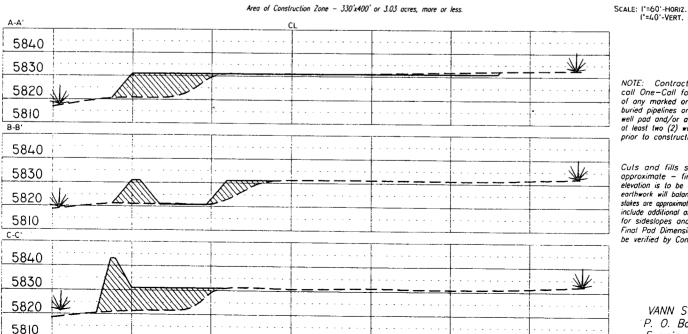


Office	State of No	ew Mexico			For	m C-103
District I	Energy, Minerals an	esources	March 4, 2004			
1625 N. French Dr., Hobbs, NM 88240			·	WELL API NO.		l
District II	OIL CONSERVA	TION DIX	ISION		EW WELL	
1301 W. Grand Ave., Artesia, NM 88210		Indicate Type	of Lease			
<u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410	1220 South S		Jr.	STATE	FEE [
District IV	Santa Fe, 1	NM 87505		6. State Oil & G	as Lease No.	
1220 S. St. Francis Dr., Santa Fe, NM						
87505	· · · · · · · · · · · · · · · · · · ·					
	S AND REPORTS ON V			7. Lease Name of		nt Name
(DO NOT USE THIS FORM FOR PROPOSAL DIFFERENT RESERVOIR. USE "APPLICAT				'	Warren LS	İ
PROPOSALS.)	ION FOR PERIVITI (FORIVI	C-101) FOR SU	νΠ			
1. Type of Well:				8. Well Number	•	
Oil Well Gas Well 🛛 O	ther				5 M	
				0 OCDIDA	1	
2. Name of Operator				9. OGRID Num		
BP AMERICA PRODUCTION CO				10 D1	000778	
3. Address of Operator	1050 4074			10. Pool name o		.
P.O. BOX 3092 HOUSTON, TX 77	0/9-2064			Basin Dakota &	Blanco Mesavo	erde
4. Well Location	•					1
						1
Unit Letter P: 830	feet from the <u>South</u>	line and	1560	feet from the East	line	1
Section 24	Township 20N	Dom	~~ 0035/	NIMDM	CAN HIAN	C
Section 24	Township 28N		ge 09W		SAN JUAN	County
	1. Elevation (Show whet	ner DR, KKB 5809'	, K1, GK, eic.)			
Pit or Below-grade Tank Application (For pit	or helow grade tank closure		must be attached	4)		
				_		
Pit Location: UL P Sect 24 Twp 28N	_Rng <u>09W_</u> Pit type_ <u>DRILL</u>	Depth to Gro	undwater <u>>100</u>	<u>'</u> Distance from near	rest fresh water well	<u>>1000'</u>
Distance from nearest surface water >1000'	Below-grade Tank Location	III P Sect	24 Twn 28N	I Rno 119W	•	1
		OL_ISCC	24 IWP 201	14116	, •	
	1545 feet from the East	line PLE	ASE SEE ATTA	CHED PAD LAYOU	T .	
860 feet from the South line and	1545 feet from the East	line PLE	ASE SEE ATTA		r well	
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860 feet from the South line and	propriate Box to Indi	line PLE NEU	ASE SEE ATTAGE Suface of Notice,	CHED PAD LAYOU location for Report or Othe	r <i>well</i> r Data	
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PAD LAYOUT PLAN & PROFILE BP AMERICA PRODUCTION COMPANY Warren LS #5M

830' F/SL 1560' F/EL SEC. 24, T28N, R9W, N.M.P.M.





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

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

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

UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANGEMENT**

OMB No. 1004-0135 Expires November 30, 2000

FORM APPROVED

Lease Serial No

SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to re-enter an

Abandoned well.	Use Form	3160-3 (APD)	for such	proposals. NEC	AHNG.	i o. ii indian, Aliottee o	or trib	e Name
SUBMIT IN TRIPLIC	ATE –	Other ins	tructio	ons on reverse s	side	7. If Unit or CA/Agre	ement	, Name and/or No.
1. Type of Well Oil Well October	Gas Well	Othe	er	6550 V		8. Well Name and N Warren LS 5M	О.	
2. Name of Operator BP AMERICA PRODUCTION CO	OMPANY		K	₹0 20/	20 E	9. API Well No. 30-045- New Well	3	2533
3a. Address P.O. BOX 3092 HOUSTON, TX 3092	77253-	3b. Phone 281-366-4	* 6	lude area code)	** }	10. Field and Pool, or Basin Dakota & Bland		
4. Location of Well (Footage, Sec NEW Surface Location Surface: SEC 24 T28N & R09		•	•		O'Oly	11. County or Parish, SAN JUAN, NM	State	
12. CHEC	CK APPRO	PRIATE BOX	(ES) TO	INDICATE NATUR	E OR N	OTICE, REPORT, OR OTH	IER I	DATA
TYPE OF SUBMISSION				7	гүре о	F ACTION		
Notice of Intent	Acid			Deepen		Production (Start/Resume)		Water shut-Off
Subsequent Report		Casing		Fracture Treat New Construction		Reclamation Recomplete	S	Well Integrity Other _Change to Original Drilling plan
	Char	nge Plans		Plug and Abandon		Water Disposal		
Final Abandonment Notice	Con	vert to Injection	on 🔲	Plug Back				
13. Describe Proposed or Completed	Operation (c	learly state all	pertinent	details, including estima	ated start	ing date of any proposed wor	k and	approximate duration thereof

If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.

Original APD submitted on 08/11/04. Under advise from BLM BP America requests permission to move the surface location of above mentioned well to an existing well pad. The previous location is: Sec 24 T28N & R9W 1000' FSL & 1060' FEL. The new location is: Sec 24 T28N & 09W 830' FSL & 1560' FEL

Attached in support of our request is amended Form C-102 and supporting plats.

Name (Printed/typed)	
Cherry Hlava	Title Regulatory Analyst
Signature Sterry Allana	Date 10/14/2004
THIS SPACE FOR FEDE	RAL OR STATE OFFICE USE
Approved by () () ()	Actuatield Date 127/04
Conditions of approval, if any, are attached. Approval of this notice does not warrant or Certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office Wineral S
Tide 19 H.C.C. Continue 1001 and Tide 42 H.C.C. Continue 1212 and	

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 witin its jurisdiction.

			,										
			E	BP AME	RICA PRO	DUCTIO	N (CON	MP/	ANY			
•				DRILL	ING AND CO		N PI	ROG	RAI	Л			
						6/2004							
	Warren LS		Mandan		ame & No. War		FO!	10001		Field:	Blance	Mesavero	le/Basin Dakota
County: Minerals:	1	uan, New	Mexico	Surrace	Surface: Lat:					330753 dog			· · · · · · · · · · · · · · · · · · ·
Rig:	Aztec 184			BH	Location: vertic		ieg, LC	лу	107.7	339733 deg			
OBJECTIVE:	72160 104	Drill :	250' below		ne Two Wells Mbi		roduct	ion ca	sina.	Stimulate D	K. MF. ar	nd PL inter	/als.
	M		OF DRILLI							DEPTHS O	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
TYPE	OF TOOLS			EPTH OF D	DRILLING	Actua		58				d KB: 5,8	
	Rotary			0 - T	D	Marker				SUBSE	A	TVD	APPROX. MD
		LOG P	ROGRAM			Ojo Alamo				4,709'		1,114'	1,114'
Туре	,		De	pth Interva	1	Kirtland				4,576'		1,247'	1,247'
Single I	Run					Fruitland			*	4,168'		1,655'	1,655'
						Fruitland Co			*	3,927'		1,896'	1,896'
						Pictured Clif	fs		*	3,699'		2,124'	2,124'
^	1-1-					Lewis				3,538'		2,285'	2,285'
Cased F			7.) to 7" ab		Cliff House Menefee		-	#	2,199'		3,624'	3,624'
TDT- C	DL) to 7" shoe 4 1⁄2" cemer		Point Looko	t		#	2,036'		3,787'	3,787'
REMARKS:			identity	7 /2 Cerner	it top	Mancos	wt		-T	1,472' 1,093'		4,351' 4,730'	4,351' 4,730'
- Please report	any flares (i	magnitude	e & duratio	n).		Greenhorn				-485'	-	6,308'	6,308'
	,			,		Graneros (be	ent,mk	(r)		-554'		6,377'	6,377'
						Two Wells			#	-614'		6,437'	6,437'
						Paguate			#	-674'		6,497'	6,497'
						Cubero			#	-724'		6,547'	6,547'
						L. Cubero			#	-770'		6,593'	6,593'
						Encinal Cyn			#	-798'		6,621'	6,621'
						TOTAL D				-864'	•	6,787'	6,787'
						# Probable						* Possible	
SPECIAL TEST TYPE	15					DRILL FREQU				DEPTH	EDEC	DRILLIN DUENCY	DEPTH
None						30'/10' in			238			lograph	0-TD
REMARKS:						30710 11	itoi vait	•	200	35 10 1D	000	ograpii	0-10
MUD PROGRA	M:												
Interval	Type □M	ud	#/gal	Vi	is, ⊏sec/qt	/30 min	ſ			Othe	r Specifi	cation	***
200'	Spud		8.8 - 9.0	Sufficie	ent to clean hole.								
2385'	Water/LSI	D	8.4 - 9.0			<9		Sı	veep	hole while w	hilst wate	r drilling, L	CM onsite
6,787'	Air		1	1000 d	ofm for hammer			Volun	ne su	fficient to ma	aintain a s	table and o	tean wellbore
CASING PROG													
Casing □S		Dept		Size	Casing Size	Grade, Thr		Wei		Landing	Point		Cement
Surface/Conduc	ctor	200		13 1/2"	9-5/8"	H-40 ST8		32				1	nt to surface
ntermediate 1		2385		8-3/4"	7"	J/K-55 ST	&C	20		100' belo			nt to surface
Production		6,78	<u>' </u>	6-1/4"	4-1/2"	J-55		11.6	0#	DKC	וע	-1	ide Intermediate -
CORING PROG	RAM·				L		1					1. 100	survey required
None		· · · · · · · · · · · · · · · · · · ·	, ,										
COMPLETION	PROGRAM:												
Rigless, 2-3 Sta			raulic Frac.	FMC Unih	ead								
GENERAL REM						· · . · · · · · · · · · · · · · · ·							
Notify BLM/NM	OCD 24 hou	s prior to	Spud, BO	testing, ar	nd Casing and Ce	menting.							
3OP Pressure	Testing Red	uiremen	its										
Format	ion	De	epth	An	ticipated botton	hole pressi	ure			Max an	ticipated	surface pr	essure**
Cliffhou	ıse	3,	624'		500	.						0	
Point Loc	kout	4,	351'	1	600							0	
Dakot	a		437'		2600)					118	33.86	
Reque	sted BOP P			on = 1500 n		te: Determir	ned usi	ng the	e folk	owing formul)) = ASP
orm 46 Review				program re								,	, :==: l
PREPARED BY				APPROVE		i i	DATE:	-		APPI	ROVED:	1	DATE:
	11.45						A O	4				1	
HGJ Form 46 7-84bw	JMP					0-	Aug-0	4					

Additional Operator Remarks:

Notice of Staking was submitted on 08/05/2004.

BP America Production Company respectfully requests permission to drill the subject well to a total depth of approximately 6787 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 Location: County: State:	24-28N-9V San Juan New Mexic	V:1000' FSL, 1060' FEI	_	Well Flac Formation: KB Elev (est) GL Elev. (est)	Dakota MesaVerde 5823 5809
Casing Pro	ográm:				
-	ing Est. Depth	Hole Size Casing Siz	e Threa	ic TOC	Stage Tool Cmt Cir. Out
Quality Out	(ft.)	(in.) (in.)		(ft.)	Or TOL (ft. (bbl.)
Surface	200	13.5 9.625	ST&C	Surface	NA
Intermediat		8.75 7		Surface	NA
Production		6.25 4.5		2285	NA
Casing Pro		(No Safety Factor Inc			
Casing Stri		Weight Grade		Collapse	Joint St. Capacity Drift
Casing Sur	(in.)	(lb/ft)			
Surface	· ·	· '	(psi.)		
	9.62		2270		
Intermediat		7 20 K-55	3740		.,
Production	- 4.	5 11.6 J-55	5350	4960	154 0.0155 3.875
					
Mud Progra			_		
Apx. Interv	al Mud Type	Mud Weight		mmended Mud I	Properties Prio Cementing:
(ft.)			PV	<20	
			YP	<10	
0 - SCP	Water/Spu	d 8.6-9.2	Fluid	L <15	
SCP - ICP	Water/LSN				
ICP - ICP2	Gas/Air Mi	st NA			
ICP2 - TD	LSND	8.6 - 9.2			
Cementing	Program:				
		Surface	•	Intermediate	Production
Excess %,	l ead	100		75	40
Excess %,		NA NA		0	40
BHST (est		75		128	190
		1,6,7			
Special Inst				1,6,8	2,4,6
		ash pumps and lines.			
		umps and lines.			
	Reverse	out			
	Run Ble	nd Test on Cement			
	E Doored	Data Danasura and Di			
	5. Record	Rate, Pressure, and De	ensity on 3	,5" disk	
		Rate, Pressure, and De densitometer with pres			
	Confirm	densitometer with pres	surized m	ud scales	
	Confirm1" ceme	densitometer with pres nt to surface if cement	surized m	ud scales ulated.	L-12 hr. after landing plug
	Confirm1" ceme	densitometer with pres nt to surface if cement	surized m	ud scales ulated.	l-12 hr. after landing plug.
Notoe	Confirm1" ceme	densitometer with pres nt to surface if cement	surized m	ud scales ulated.	l-12 hr. after landing plug.
Notes:	6. Confirm 7. 1" ceme 8. If cemer	densitometer with pres nt to surface if cement it is not circulated to su	ssurized m is not circu rface, run	ud scales ulated. temp. survey 10	
Notes:	6. Confirm 7. 1" ceme 8. If cemer	densitometer with pres nt to surface if cement it is not circulated to su	ssurized m is not circu rface, run	ud scales ulated. temp. survey 10	I-12 hr. after landing plug. g production cement job to minmize dr
	6. Confirm 7. 1" ceme 8. If cemer	densitometer with pres nt to surface if cement it is not circulated to su	ssurized m is not circu rface, run	ud scales ulated. temp. survey 10	
Notes:	6. Confirm 7. 1" ceme 8. If cemer *Do not wa	densitometer with pres nt to surface if cement it is not circulated to su sh up on top of plug. V	ssurized m is not circu rface, run Vash lines	ud scales ulated. temp. survey 10 before displacin	
	6. Confirm 7. 1" ceme 8. If cemer	densitometer with pres nt to surface if cement it is not circulated to su	ssurized m is not circu rface, run	ud scales ulated. temp. survey 10 before displacin	
	6. Confirm 7. 1" ceme 8. If cemer *Do not wa	densitometer with present to surface if cement it is not circulated to surface with the surface of the surface	surized m is not circu rface, run Vash lines Fresh	ud scales ulated. temp. survey 10 before displacin	
	6. Confirm 7. 1" ceme 8. If cemer *Do not wa	densitometer with pres nt to surface if cement it is not circulated to su sh up on top of plug. V	surized m is not circu rface, run Vash lines Fresh	ud scales ulated. temp. survey 10 before displacin	
	6. Confirm 7. 1" ceme 8. If cemer *Do not wa Preflush Slurry 1	densitometer with present to surface if cement it is not circulated to surface with the surface of the surface	surized m is not circu rface, run Vash lines Fresh	ud scales ulated. temp. survey 10 before displacin Water	g production cement job to minmize dr
	6. Confirm 7. 1" ceme 8. If cemer *Do not wa	densitometer with present to surface if cement it is not circulated to surface with the surface of the surface	surized m is not circu rface, run Vash lines Fresh	ud scales ulated. temp. survey 10 before displacin Water	g production cement job to minmize dr
	6. Confirm 7. 1" ceme 8. If cemer *Do not wa Preflush Slurry 1	densitometer with present to surface if cement it is not circulated to surface with the surface of the surface	surized m is not circu rface, run Vash lines Fresh	ud scales ulated. temp. survey 10 before displacin Water	g production cement job to minmize dr
Surface:	6. Confirm 7. 1" ceme 8. If cemer *Do not wa Preflush Slurry 1 TOC@Sur	densitometer with present to surface if cement it is not circulated to surface in the surface of plug. Visable control of	surized m is not circu rface, run Vash lines Fresh Cement 2 (accelera	ud scales ulated. temp. survey 10 before displacin Water	g production cement job to minmize dr 195 cuft 0.4887 cuft/ft OH
	6. Confirm 7. 1" ceme 8. If cemer *Do not wa Preflush Slurry 1 TOC@Sur	densitometer with present to surface if cement it is not circulated to surface if surface if cement it is not circulated to surface if cement it is not circulated to surface if	surized m is not circurface, run Vash lines Fresh Cement 2 (acceler:	ud scales ulated. temp. survey 10 before displacin Water ator)	g production cement job to minmize dr 195 cuft 0.4887 cuft/ft OH
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Surface:	6. Confirm 7. 1" ceme 8. If cemer *Do not wa Preflush Slurry 1 TOC@Sur erties: Slurry 1	densitometer with present to surface if cement it is not circulated to surface if some of plug. V 20 bbl. 160 sx Class C face +2% CaCl Density (lb/gal) 15.2	surized m is not circu rface, run Vash lines Fresh Cement 2 (acceler: Yield (ft3/sk	ud scales ulated. temp. survey 10 before displacin Water ator)	g production cement job to minmize do 195 cuft 0.4887 cuft/ft OH Water (gal/sk)
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Surface:	6. Confirm 7. 1" ceme 8. If cemer *Do not wa Preflush Slurry 1 TOC@Sur erties: Slurry 1	densitometer with present to surface if cement it is not circulated to surface if some of plug. V 20 bbl. 160 sx Class C face +2% CaCl Density (lb/gal) 15.2	surized m is not circu rface, run Vash lines Fresh Cement 2 (acceler: Yield (ft3/sk	ud scales ulated. temp. survey 10 before displacin Water ator)	g production cement job to minmize do 195 cuft 0.4887 cuft/ft OH Water (gal/sk)
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Surface: Slurry Prop	6. Confirm 7. 1" ceme 8. If cemer *Do not wa Preflush Slurry 1 TOC@Sur erties: Slurry 1	densitometer with present to surface if cement it is not circulated to surface if cement i	surized m is not circurface, run //ash lines Fresh Cement 2 (acceler: Yield (ft3/sk 1.27	ud scales ulated. temp. survey 10 before displacin Water ator)	g production cement job to minmize do 195 cuft 0.4887 cuft/ft OH Water (gal/sk)
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Surface: Slurry Prop	6. Confirm 7. 1" ceme 8. If cemer *Do not wa Preflush Slurry 1 TOC@Sur erties: Slurry 1	densitometer with present to surface if cement it is not circulated to surface if cement it is not circulated to surface if cement it is not circulated to surface if cement is not circulated to surface if cement if cement is not cement if cement	surized m is not circurface, run //ash lines Fresh Cement 2 (acceler: Yield (ft3/sk 1.27	ud scales ulated. temp. survey 10 before displacin Water ator)	g production cement job to minmize do 195 cuft 0.4887 cuft/ft OH Water (gal/sk)
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Surface: Slurry Prop	6. Confirm 7. 1" ceme 8. If cemer *Do not wa Preflush Slurry 1 TOC@Sur erties: Slurry 1 tipment:	densitometer with present to surface if cement it is not circulated if cement it is not circulated if cement it is not cement if cement it is not certain it is not cert	surized m is not circu rface, run /ash lines Fresh Cement 2 (acceler: Yield (ft3/sk 1.27 raive int except ound	ud scales ulated. temp. survey 10 before displacin Water ator)	g production cement job to minmize dr 195 cuft 0.4887 cuft/ft OH Water (gal/sk) 5.8
Surface: Slurry Prop	6. Confirm 7. 1" ceme 8. If cemer *Do not wa Preflush Slurry 1 TOC@Sur erties: Slurry 1	densitometer with present to surface if cement it is not circulated if cement it is not circulated if cement it is not cement if cement it is not certain it is not cert	surized m is not circurface, run //ash lines Fresh Cement 2 (acceler: Yield (ft3/sk 1.27 raive int except ound	ud scales ulated. temp. survey 10 before displacin Water ator) top joint vater ss "G" Cement	g production cement job to minmize do 195 cuft 0.4887 cuft/ft OH Water (gal/sk)
Surface: Slurry Prop	6. Confirm 7. 1" ceme 8. If cemer *Do not wa Preflush Slurry 1 TOC@Sur erties: Slurry 1 tipment:	densitometer with present to surface if cement it is not circulated if cement it is not circulated if cement it is not cement if cement it is not certain it is not cert	surized m is not circurface, run //ash lines Fresh Cement 2 (acceler: Yield (ft3/sk 1.27 raive int except ound	ud scales ulated. temp. survey 10 before displacin Water ator)	g production cement job to minmize dr 195 cuft 0.4887 cuft/ft OH Water (gal/sk) 5.8
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Surface: Slurry Prop	6. Confirm 7. 1" ceme 8. If cemer *Do not wa Preflush Slurry 1 TOC@Sur erties: Slurry 1 tipment: te: Fresh Wate Lead Slurry 1	densitometer with present to surface if cement it is not circulated to surface if cement it is not circulated to surface if cement it is not circulated to surface if cement is not circulated to surface if cement if cement is not circulated in the cement if cement is not certain it is not	surized m is not circurface, run Vash lines Fresh Cement 2 (accelera Yield (ft3/sk 1.27 valve int except ound fresh v 190 sx Cla + 3% t + 2% s	ud scales ulated. temp. survey 10 before displacin Water Jator) top joint vater ss "G" Cement 079 extender	g production cement job to minmize dr 195 cuft 0.4887 cuft/ft OH Water (gal/sk) 5.8

Cementing Program

Tail Slurry 2 50	O ft fill	+ 0.1% D46 an 60 sx 50/50 Class + 2% gel (exter 0.1% D46 antifi +1/4 #/sk. Cello + 2% CaCl2 (ac	75 cuft 0.1503 cuft/ft OH 0.1746 cuft/ft csg ann	
Slurry Properties:	Density	Yield	Water	
	(lb/gal)	(ft3/sk)	(gal/sk)	
Slurry 1	11.4 13.5	2.61 1.27	17.77 5.72	
Slurry 2	13.5	1.21	5.72	
Casing Equipment:	7", 8R, ST&C			
	1 Float Collar (auto 1 Stop Ring 14 Centralizers (on		in mud) nt, then every thin	d collar)
Production: Fresh Wate	er 10 bbl	CW100		
Lead Slurry 1 TOC, 100'	above 7" shoe	170 LiteCrete D961 + 0.03 gps D47 + 0.5% D112 ft + 0.11% D65 T	antifoam uid loss	409 cuft
Tail		160 sx 50/50 Class		224 cuft
Slurry 2		+ 5% D20 gel (+ 5 #/sk D24 gilsonite
155	7 ft fill	+ 0.1% D46 ant + 1/4 #/sk. Celli + 0.25% D167 l	ophane Flake	+ 0.15% D65 TIC + 0.1% D800 retarder
				0.1026 cuft/ft OH
Slurry Properties:	Density	Yield	Water	
. .	(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 4730
Casing Equipment:	•		•	7130

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

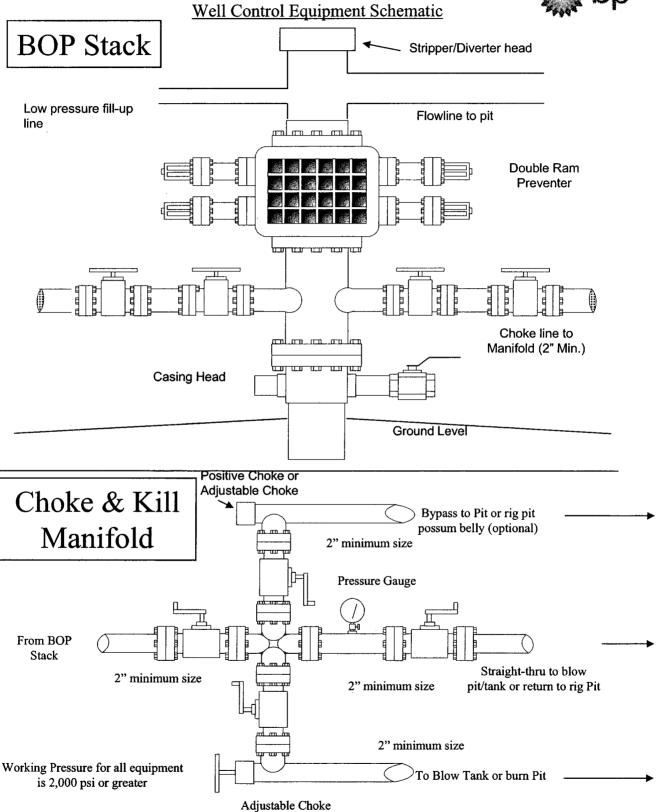
Below conductor casing to total depth

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.

BP America Production Company





PAD LAYOUT PLAN & PROFILE BP AMERICA PRODUCTION COMPANY

Warren LS #5M 1000' F/SL 1060' F/EL Lat: 36°38'35" Long: 107°44'05" SEC. 24, T28N, R9W, N.M.P.M. **Existing Field Road** SAN JUAN COUNTY, NEW MEXICO C () () PROPOSED FLARE PIT PROPOSED RESERVE PIT ELEY. 5809 S 10° W 50 LAYDOWN Proposed Access Road 150 150 8 400 CONSTRUCTION ZONE SCALE (T-60 HORD) Contrador Dos - 151/60 or 151 area, may or ken 5820 5810 NOTE: Contractor should call One-Call for location of any marked or unmarked buried pipelines or cables on well pad and/or access road al least two (2) working days prior to construction. 5800 5790 8-8 5820 Cuts and fills shown are approximate - final finished elevation is to be adjusted so earthwork will balance. Corner 5810 eartmoork mu botance. Corner states are approximate and do not include additional areas needed for sideslopes and drainages. Final Pad Dimensions are to be verified by Contractor. 5800 5790 C-C, 5820 5810 VANN SURVEYS 5800

5790

P. O. Box 1306

Farmington, NM