Form 3160-3 (August 1999)

UNITED STATES DEPARTMENT OF THE INTERIOR BURFALLOF LAND MANAGEMENT

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

DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT	5. Lease Serial No.
BORDING OF EARLY MAINTIGENERY	SF - 078566
APPLICATION FOR PERMIT TO DRILL OR REENTER	6. If Indian, Allottee or Tribe Name
Ia. Type of Work: ☑ DRILL ☐ REENTER	7. If Unit or CA Agreement, Name and No.
1b. Type of Well: Oil Well Gas Well Other Single Zone Multiple Zone	8. Lease Name and Well No. STOREY LS 4M
2. Name of Operator Contact: CHERRY HLAVA BP AMERICA PRODUCTION COMPANY E-Mail: hlavacl@bp.com	9. API Well No. 30045 32443
3a. Address 3b. Phone No. (include area code) P.O. BOX 3092 Ph: 281.366.4081 HOUSTON, TX 77253-3092 Fx: 281.366.0700	10. Field and Pool, or Exploratory BASIN DAKOTA & BLANCO MV
4. Location of Well (Report location clearly and in accordance with any State requirements.*)	11. Sec., T., R., M., or Blk. and Survey or A
At surface SENE 1890FNL 1570FEL 36.61722 N Lat, 107.65250 W Lon	Sec 34 T28N R08W Mer NMP
At proposed prod. zone SENE 1820FNL 2450FEL 36.61722 N Lat, 107.65250 W Lon	9
14. Distance in miles and direction from nearest town or post office* 22.3 MILES SOUTH/EAST FROM BLOOMFIELD, NM	12. County or Parish 13. Sta SAN JUAN NM
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 1570' 16. No. of Acres in Lease 2004	17. Spacing Unit dedicated to this well 320.00 N
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 19. Proposed Depth 7246 MD	20: BLM/BIA Bond No. on file WY2924
21. Elevations (Show whether DF, KB, RT, GL, etc. 6262 GL 22. Approximate date work will start 08/15/2004	23. Estimated duration 7 DAYS
24. Attachments	
The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to	this form:
2. A Drilling Plan. 3. A Surface Use Plan (if the location is on National Forest System Lands, the 5. Operator certification	ons unless covered by an existing bond on file (
25. Signature Name (Printed/Typed) (Electronic Submission) CHERRY HLAVA	Date 06/29/200
Title REGULATORY ANALYST	
Approved by (Signature) Name (Printed/Typed)	Date 9-16-0
Title Office FFO	
Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject leader operations thereon. Conditions of approval, if any, are attached.	ease which would entitle the applicant to condu
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 States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.	o make to any department or agency of the Unit

Additional Operator Remarks (see next page)

Electronic Submission #32493 verified by the BLM Well Information System For BP AMERICA PRODUCTION COMPANY, sent to the Farmington

HOLD GIEN FOR Divectional Subjections OPERATIONS AUTHORIZED ARE SUBJECT TO JOHPH LANCE WITH ATTACHED "GENERAL REQUIREMENTS".

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

District I PO Box 1980, Hobbs NM 88241-1980 District II PO Donwer ECK, Americ, NM 87211-0719 District III 1000 Rio Bruzos Rd., Azzec, NM 87410 District IV

State of New Mexico

Dergy, Miserals & 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

District IV PO Box 2088, Sur	ita Po, NAC S	7504-2088				(E) 44		₩ DA	MENDED REPORT
		WE	IL LO	CATION	I AND ACR	्ं EAGE DEDIC	ATION PL	ХT	
30-04	S-3	244		1001 pool	•	ism De tota	C7 \ 2001	o Mesavi	erde
* Property			E		* Property	Name			Well Mumber
00113		S	itorey	LS					# 4M
1 OGRID					* Ореспіза	7. 1			⁷ Skratus
00077	8	B	IP AM	ERICA	PRODUCT	TON COMPA	INY		6262
					¹⁰ Surface I	ocation			
UL or Lot No.	Sections	Tewnship	Rango	Lee ldn	Foot from the	North/South line	Foot Breen the	Best/West time	County
G	34	28 N	8 W		1890	NORTH	1570	EAST	SAN JUAN
			" Bott	om Hole	Location If	Different Pror	n Surface	*	
' UL oristae.	Sections	Township	Rango	Lee lén	Fort Sum the	North/South line	Peet from the	East/West line	Сокову
G	34	28 N	8W		1820	NORTH	2450	EAST	SAN JUAN
" Dedicated Acre	s ⁽⁾ Join	or Labin 14	Consolidatio	a Code is	Ceder No.				
NO ALLOY	WABLE V		The second secon			on until all i Een approved		A CONTRACT OF THE PARTY OF THE	ONSOLIDATED
16				2280(81)			OPE (RATOR CEI	RTIFICATION
<u>.</u>		. *		**************************************	· ·				nation pontained berein to I my bronkelge and belief
		3		: '	890,				

Bottom Hole Location 1820' F/NL 2450' F/EL 1570' Azimuth - 274433' 882' SURVEYOR CERTIFICATION I hereby certify that the well incetion shown on this pict was piolical from Reid notes at actual surveys made by me or under my repertors, and that the same it rue and correct to the heat of my belief.

Addied BHL: June 28, 2004

May 26, 2004 Date of Survey Lot 1 Lot 2 LOT 4

	i						
			BP AMERICA PR	ODUCTION CO	MPANY		
			DRILLING AND COMI	PLETION PROGRAM			
l eace.	Storey	 	Well No.	Storey LS #4M	Field:	Blanco/Basin Dakot	
	San Juan, New N	/lexico	Location:	34-28N-8W:1890' FNL. 15	570' FEL	Dianco/Dasin Dakot	<u> </u>
Minerals:			BHLOC:	34-28N-8W:1820' FNL, 24	50' FEL		
	Aztec 184		Surface:	Lat: 36 deg, 37.20 mi	n; Long: 107 deg	39.85 min	
DBJECTIVE			Two Wells Mbr, set 4-1/2" production case				<u> </u>
	METHOD OF			APPROXIMATE DEP			
YPE OF T	OOLS		OF DRILLING	Actual GL		Estimated KB:	
Rotary		0 - TD		Marker	SUBSEA	TVD	APPROX. MD
F	LOG PROGR			Ojo Alamo	4,582'	1,694'	
Type - singl	e run	Depth In	terval	Kirtland	4,450'	1,826'	
	<u> </u>	TD 4. 78		Fruitland *	4,036'	2,240'	
ased Hole T	DI-CBL	TD to 7"		Fruitland Coal *	3,722'	2,554'	
		Identify 4 1/2	r cement top	Pictured Cliffs *	3,623'	2,653'	
				Lewis *	3,289'	2,987'	
	 	-		Cliff House #	2,155'	4,121'	
	<u> </u>			Menefee #	1,961'	4,315'	
	<u> </u>			Point Lookout #	1,418'	4,858'	
				Mancos	1,054'	5,222'	ļ
				Greenhorn	-503'	6,779'	
	 	 		Graneros (bent,mkr)	-566'	6,842'	
	 	 		Two Wells Mbr #	-601'	6,877'	ļ
		 		Paguate Mbr # Cubero Mbr #	-697'	6,973'	
	<u> </u>	 		L. Cubero Mbr #	-735'	7,011'	
		 			-770'	7,046'	
*				Encinal Cyn Mbr#	-797'	7,073'	
		 		TOTAL DEPTH:	-841'	7,117'	
·	<u> </u>	ļ		# Probable completion		* Possible Pay	
				DRILL CUTTING SAI		DRILLING	
				FREQUENCY	DEPTH	FREQUENCY	DEPTH
	SPECIAL T	ESTS		30'/10' intervals	3087 - TD	Geolograph	0 - TD
YPE	SPECIAL II	E313		· · · · · · · · · · · · · · · · · · ·	- 		
lone		1					
IOIIG			· · · · · · · · · · · · · · · · · · ·				
		 					
			•				
		1					
ALID PROG	PAM:						
MUD PROC		Weight,	Vis	W/L			
	GRAM: Type Mud	Weight, #/gal	Vis sec/qt	W/L cc's/30 min	Other Spe	cification	
Approx.	Type				Other Spe	cification	
Approx. Interval	Type Mud Spud	#/gal	sec/qt				_CM onsite
Approx. Interval 200'	Type Mud Spud	#/gal 8.8 - 9.0	sec/qt	cc's/30 min	Sweep hole while	whilst water drilling, I	
Approx. Interval 200' 3,087' 7,117'	Type Mud Spud Water/LSND Air	#/gal 8.8 - 9.0 8.4 - 9.0	sec/qt Sufficient to clean hole.	cc's/30 min	Sweep hole while		
Approx. Interval 200' 3,087' 7,117'	Type Mud Spud Water/LSND Air	#/gal 8.8 - 9.0 8.4 - 9.0	sec/qt Sufficient to clean hole. 1000 cfm for hammer	cc's/30 min	Sweep hole while	whilst water drilling, I	
Approx. Interval 200' 3,087' 7,117' ASING PF	Type Mud Spud Water/LSND Air ROGRAM: Estimated	#/gal 8.8 - 9.0 8.4 - 9.0 1	sec/qt Sufficient to clean hole. 1000 cfm for hammer Casing	cc's/30 min	Sweep hole while Volume sufficient	whilst water drilling, to maintain a stable a	
Approx. Interval 200' 3,087' 7,117' CASING PP Casing String	Type Mud Spud Water/LSND Air ROGRAM: Estimated Depth	#/gal 8.8 - 9.0 8.4 - 9.0 1 Hole Size	sec/qt Sufficient to clean hole. 1000 cfm for hammer Casing Size	cc's/30 min <9 Wt, Grade, Thread	Sweep hole while	whilst water drilling, to maintain a stable a	
Approx. Interval 200' 3,087' 7,117' CASING PF Casing String urface/Cond	Type Mud Spud Water/LSND Air ROGRAM: Estimated Depth 200'	#/gal 8.8 - 9.0 8.4 - 9.0 1 Hole Size 13 1/2"	sec/qt Sufficient to clean hole. 1000 cfm for hammer Casing Size 9-5/8"	cc's/30 min <9 Wt, Grade, Thread 32#, H-40 ST&C	Sweep hole while Volume sufficient Landing Point	whilst water drilling, to maintain a stable of the communication of the	
Approx. Interval 200' 3,087' 7,117' ASING PF Casing String urface/Cond	Type Mud Spud Water/LSND Air ROGRAM: Estimated Depth 200' 3,087'	#/gal 8.8 - 9.0 8.4 - 9.0 1 Hole Size 13 1/2" 8-3/4"	sec/qt Sufficient to clean hole. 1000 cfm for hammer Casing Size 9-5/8" 7"	cc's/30 min <9 Wt, Grade, Thread 32#, H-40 ST&C 20#, J/K-55 ST&C	Sweep hole while Volume sufficient Landing Point 100' below LWIS	whilst water drilling, to maintain a stable : Cement cmt to surface cmt to surface	and clean wellbore
Approx. Interval 200' 3,087' 7,117' ASING PF Casing String urface/Cond	Type Mud Spud Water/LSND Air ROGRAM: Estimated Depth 200'	#/gal 8.8 - 9.0 8.4 - 9.0 1 Hole Size 13 1/2"	sec/qt Sufficient to clean hole. 1000 cfm for hammer Casing Size 9-5/8"	cc's/30 min <9 Wt, Grade, Thread 32#, H-40 ST&C	Sweep hole while Volume sufficient Landing Point	whilst water drilling, to maintain a stable of the maintain a stable of the comment of the comment of the surface of the comment of the surface of the comment of the comme	and clean wellbore
Approx. Interval 200' 3,087' 7,117' CASING PF Casing String urface/Cond	Type Mud Spud Water/LSND Air ROGRAM: Estimated Depth 200' 3,087' 7,117'	#/gal 8.8 - 9.0 8.4 - 9.0 1 Hole Size 13 1/2" 8-3/4"	sec/qt Sufficient to clean hole. 1000 cfm for hammer Casing Size 9-5/8" 7"	cc's/30 min <9 Wt, Grade, Thread 32#, H-40 ST&C 20#, J/K-55 ST&C	Sweep hole while Volume sufficient Landing Point 100' below LWIS	whilst water drilling, to maintain a stable : Cement cmt to surface cmt to surface	and clean wellbore
Approx. Interval 200' 3,087' 7,117' CASING PF Casing String urface/Cond termediate 1 roduction CORING PF	Type Mud Spud Water/LSND Air ROGRAM: Estimated Depth 200' 3,087' 7,117'	#/gal 8.8 - 9.0 8.4 - 9.0 1 Hole Size 13 1/2" 8-3/4"	sec/qt Sufficient to clean hole. 1000 cfm for hammer Casing Size 9-5/8" 7"	cc's/30 min <9 Wt, Grade, Thread 32#, H-40 ST&C 20#, J/K-55 ST&C	Sweep hole while Volume sufficient Landing Point 100' below LWIS	whilst water drilling, to maintain a stable of the maintain a stable of the comment of the comment of the surface of the comment of the surface of the comment of the comme	and clean wellbore
Approx. Interval 200' 3,087' 7,117' CASING PI Casing String urface/Cond Itermediate 1 roduction CORING PI one	Type Mud Spud Water/LSND Air ROGRAM: Estimated Depth 200' 3,087' 7,117' ROGRAM:	#/gal 8.8 - 9.0 8.4 - 9.0 1 Hole Size 13 1/2" 8-3/4" 6-1/4"	sec/qt Sufficient to clean hole. 1000 cfm for hammer Casing Size 9-5/8" 7"	cc's/30 min <9 Wt, Grade, Thread 32#, H-40 ST&C 20#, J/K-55 ST&C	Sweep hole while Volume sufficient Landing Point 100' below LWIS	whilst water drilling, to maintain a stable of the maintain a stable of the comment of the comment of the surface of the comment of the surface of the comment of the comme	and clean wellbore
Approx. Interval 200' 3,087' 7,117' ASING PF Casing String urface/Cond termediate 1 roduction ORING PI one OMPLETI	Type Mud Spud Water/LSND Air ROGRAM: Estimated Depth 200' 3,087' 7,117' ROGRAM:	#/gal 8.8 - 9.0 8.4 - 9.0 1 Hole Size 13 1/2" 8-3/4" 6-1/4"	sec/qt Sufficient to clean hole. 1000 cfm for hammer Casing Size 9-5/8" 7" 4-1/2"	cc's/30 min <9 Wt, Grade, Thread 32#, H-40 ST&C 20#, J/K-55 ST&C	Sweep hole while Volume sufficient Landing Point 100' below LWIS	whilst water drilling, to maintain a stable of the maintain a stable of the comment of the comment of the surface of the comment of the surface of the comment of the comme	and clean wellbore
Approx. Interval 200' 3,087' 7,117' ASING Pr Casing String urface/Cond termediate 1 roduction ORING Pr one OMPLETI igless, 3-4 S	Type Mud Spud Water/LSND Air ROGRAM: Estimated Depth 200' 3,087' 7,117' ROGRAM:	#/gal 8.8 - 9.0 8.4 - 9.0 1 Hole Size 13 1/2" 8-3/4" 6-1/4"	sec/qt Sufficient to clean hole. 1000 cfm for hammer Casing Size 9-5/8" 7"	cc's/30 min <9 Wt, Grade, Thread 32#, H-40 ST&C 20#, J/K-55 ST&C	Sweep hole while Volume sufficient Landing Point 100' below LWIS	whilst water drilling, to maintain a stable of the maintain a stable of the comment of the comment of the surface of the comment of the surface of the comment of the comme	and clean wellbore
Approx. Interval 200' 3,087' 7,117' ASING PF Casing String urface/Cond itermediate 1 roduction CORING PF one COMPLETI igless, 3-4 S EENERAL	Type Mud Spud Water/LSND Air ROGRAM: Estimated Depth 200' 3,087' 7,117' ROGRAM: ON PROGRAM tage Limited Entry REMARKS:	#/gal 8.8 - 9.0 8.4 - 9.0 1 Hole Size 13 1/2" 8-3/4" 6-1/4"	sec/qt Sufficient to clean hole. 1000 cfm for hammer Casing Size 9-5/8" 7" 4-1/2"	cc's/30 min <9 Wt, Grade, Thread 32#, H-40 ST&C 20#, J/K-55 ST&C 11.6#, J-55	Sweep hole while Volume sufficient Landing Point 100' below LWIS	whilst water drilling, to maintain a stable of the maintain a stable of the comment of the comment of the surface of the comment of the surface of the comment of the comme	and clean wellbore
Approx. Interval 200' 3,087' 7,117' ASING PF Casing String urface/Cond termediate 1 roduction CORING PF one COMPLETI igless, 3-4 S ENERAL otify BLM/NM	Type Mud Spud Water/LSND Air ROGRAM: Estimated Depth 200' 3,087' 7,117' ROGRAM: ON PROGRAM: tage Limited Entry REMARKS:	#/gal 8.8 - 9.0 8.4 - 9.0 1 Hole Size 13 1/2" 8-3/4" 6-1/4"	sec/qt Sufficient to clean hole. 1000 cfm for hammer Casing Size 9-5/8" 7" 4-1/2" Frac, FMC Unihead BOP testing, and Casing and Cementing	cc's/30 min <9 Wt, Grade, Thread 32#, H-40 ST&C 20#, J/K-55 ST&C 11.6#, J-55	Sweep hole while Volume sufficient Landing Point 100' below LWIS	whilst water drilling, to maintain a stable of the maintain a stable of the comment of the comment of the surface of the comment of the surface of the comment of the comme	and clean wellbore
Approx. Interval 200' 3,087' 7,117' CASING PF Casing String urface/Cond atermediate 1 roduction CORING PF one COMPLETI igless, 3-4 S ENERAL otify BLM/NM	Type Mud Spud Water/LSND Air ROGRAM: Estimated Depth 200' 3,087' 7,117' ROGRAM: ON PROGRAM: tage Limited Entry REMARKS: MOCD 24 hours pi ure Testing Re	#/gal 8.8 - 9.0 8.4 - 9.0 1 Hole Size 13 1/2" 8-3/4" 6-1/4"	sec/qt Sufficient to clean hole. 1000 cfm for hammer Casing Size 9-5/8" 7" 4-1/2" Frac, FMC Unihead BOP testing, and Casing and Cementing	cc's/30 min <9 Wt, Grade, Thread 32#, H-40 ST&C 20#, J/K-55 ST&C 11.6#, J-55	Sweep hole while Volume sufficient Landing Point 100' below LWIS DKOT	whilst water drilling, to maintain a stable of the maintain a stable of the comment of the comment of the surface of the comment of the surface of the comment of the comme	and clean wellbore
Approx. Interval 200' 3,087' 7,117' CASING PF Casing String urface/Cond atermediate 1 roduction CORING PF one COMPLETI igless, 3-4 S ENERAL otify BLM/NM	Type Mud Spud Water/LSND Air ROGRAM: Estimated Depth 200' 3,087' 7,117' ROGRAM: ON PROGRAM: tage Limited Entry REMARKS: MOCD 24 hours pi ure Testing Reformation	#/gal 8.8 - 9.0 8.4 - 9.0 1 Hole Size 13 1/2" 8-3/4" 6-1/4"	sec/qt Sufficient to clean hole. 1000 cfm for hammer Casing Size 9-5/8" 7" 4-1/2" Frac, FMC Unihead BOP testing, and Casing and Cementing nts Anticipated bottom hole pressure	cc's/30 min <9 Wt, Grade, Thread 32#, H-40 ST&C 20#, J/K-55 ST&C 11.6#, J-55 Max anticipated surface	Sweep hole while Volume sufficient Landing Point 100' below LWIS DKOT	whilst water drilling, to maintain a stable of the maintain a stable of the comment of the comment of the surface of the comment of the surface of the comment of the comme	and clean wellbore
Approx. Interval 200' 3,087' 7,117' CASING PF Casing String urface/Cond atermediate 1 roduction CORING PF one COMPLETI igless, 3-4 S ENERAL otify BLM/NM	Type Mud Spud Water/LSND Air ROGRAM: Estimated Depth 200' 3,087' 7,117' ROGRAM: ON PROGRAM: age Limited Entry REMARKS: MOCD 24 hours pi ure Testing Reformation Cliffhouse	#/gal 8.8 - 9.0 8.4 - 9.0 1 Hole Size 13 1/2" 8-3/4" 6-1/4"	sec/qt Sufficient to clean hole. 1000 cfm for hammer Casing Size 9-5/8" 7" 4-1/2" Frac, FMC Unihead BOP testing, and Casing and Cementing nts Anticipated bottom hole pressure 500	cc's/30 min <9 Wt, Grade, Thread 32#, H-40 ST&C 20#, J/K-55 ST&C 11.6#, J-55 Max anticipated surface 0	Sweep hole while Volume sufficient Landing Point 100' below LWIS DKOT	whilst water drilling, to maintain a stable of the maintain a stable of the comment of the comment of the surface of the comment of the surface of the comment of the comme	and clean wellbore
Approx. Interval 200' 3,087' 7,117' CASING PF Casing String urface/Cond atermediate 1 roduction CORING PF one COMPLETI igless, 3-4 S ENERAL otify BLM/NM	Type Mud Spud Water/LSND Air ROGRAM: Estimated Depth 200' 3,087' 7,117' ROGRAM: ON PROGRAM: age Limited Entry REMARKS: MOCD 24 hours pi ure Testing Reformation Cliffhouse Point Lookout	#/gal 8.8 - 9.0 8.4 - 9.0 1 Hole Size 13 1/2" 8-3/4" 6-1/4" // Hydraulic f	sec/qt Sufficient to clean hole. 1000 cfm for hammer Casing Size 9-5/8" 7" 4-1/2" Frac, FMC Unihead BOP testing, and Casing and Cementing nts Anticipated bottom hole pressure 500 600	cc's/30 min <9 Wt, Grade, Thread 32#, H-40 ST&C 20#, J/K-55 ST&C 11.6#, J-55 Max anticipated surface 0 0 0	Sweep hole while Volume sufficient Landing Point 100' below LWIS DKOT	whilst water drilling, to maintain a stable of the maintain a stable of the comment of the comment of the surface of the comment of the surface of the comment of the comme	and clean wellbore
Approx. Interval 200' 3,087' 7,117' CASING PF Casing String urface/Cond Intermediate 1 roduction CORING PI igless, 3-4 S GENERAL otify BLM/NM GOP Press	Type Mud Spud Water/LSND Air ROGRAM: Estimated Depth 200' 3,087' 7,117' ROGRAM: ON PROGRAM tage Limited Entry REMARKS: MOCD 24 hours pi ure Testing Reformation Cliffhouse Point Lookout Dakota	#/gal 8.8 - 9.0 8.4 - 9.0 1 Hole Size 13 1/2" 8-3/4" 6-1/4" // Hydraulic F ior to Spud. equireme Depth 4,121' 4,858' 6,877'	sec/qt Sufficient to clean hole. 1000 cfm for hammer Casing Size 9-5/8" 7" 4-1/2" Frac, FMC Unihead BOP testing, and Casing and Cementing nts Anticipated bottom hole pressure 500 600 2600	### CC's/30 min <9	Sweep hole while Volume sufficient Landing Point 100' below LWIS DKOT	whilst water drilling, to maintain a stable of the maintain a stable of	and clean wellbore
Approx. Interval 200' 3,087' 7,117' CASING PF Casing String urface/Cond Intermediate 1 roduction CORING PI one COMPLETI igless, 3-4 S GENERAL otify BLM/NA GOP Press	Type Mud Spud Water/LSND Air ROGRAM: Estimated Depth 200' 3,087' 7,117' ROGRAM: ON PROGRAM tage Limited Entry REMARKS: MOCD 24 hours pi ure Testing Ref Formation Cliffhouse Point Lookout Dakota Requested BOP	#/gal 8.8 - 9.0 8.4 - 9.0 1 Hole Size 13 1/2" 8-3/4" 6-1/4" // Hydraulic F ior to Spud. equireme Depth 4,121' 4,858' 6,877'	sec/qt Sufficient to clean hole. 1000 cfm for hammer Casing Size 9-5/8" 7" 4-1/2" Frac, FMC Unihead BOP testing, and Casing and Cementing nts Anticipated bottom hole pressure 500 600 2600 2600 set Exception = 1500 psi	cc's/30 min <9 Wt, Grade, Thread 32#, H-40 ST&C 20#, J/K-55 ST&C 11.6#, J-55 Max anticipated surface 0 0 0	Sweep hole while Volume sufficient Landing Point 100' below LWIS DKOT	whilst water drilling, to maintain a stable of the maintain a stable of	and clean wellbore
Approx. Interval 200' 3,087' 7,117' CASING PF Casing String urface/Cond Intermediate 1 roduction CORING PI Interval COMPLETI Interval Inte	Type Mud Spud Water/LSND Air ROGRAM: Estimated Depth 200' 3,087' 7,117' ROGRAM: ON PROGRAM tage Limited Entry REMARKS: MOCD 24 hours pi ure Testing Ref Formation Cliffhouse Point Lookout Dakota Requested BOP viewed by:	#/gal 8.8 - 9.0 8.4 - 9.0 1 Hole Size 13 1/2" 8-3/4" 6-1/4" /* /* /* /* /* Hydraulic I /* /* /* Hydraulic I /* /* /* Hydraulic I /* /* /* Hydraulic I /* /* /* Hydraulic I /* /* /* Hydraulic I /* /* /* Hydraulic I /* /* /* /* /* Hydraulic I /* /* /* /* /* Hydraulic I /* /* /* /* /* /* /* /* /* /* /* /* /*	sec/qt Sufficient to clean hole. 1000 cfm for hammer Casing Size 9-5/8" 7" 4-1/2* Frac, FMC Unihead BOP testing, and Casing and Cementing most second for the second form of the s	wt, Grade, Thread 32#, H-40 ST&C 20#, J/K-55 ST&C 11.6#, J-55 Max anticipated surface 0 0 1121 ** Note: Determined usin	Sweep hole while Volume sufficient Landing Point 100' below LWIS DKOT pressure**	whilst water drilling, to maintain a stable of the maintain a stable of	and clean wellbore Intermediate 1 Intermediate 1 Intermediate 1
Interval 200' 3,087' 7,117' CASING PF Casing String surface/Cond atermediate 1 roduction CORING PI lone COMPLETI digless, 3-4 S GENERAL lotify BLM/NN BOP Press	Type Mud Spud Water/LSND Air ROGRAM: Estimated Depth 200' 3,087' 7,117' ROGRAM: ON PROGRAM tage Limited Entry REMARKS: MOCD 24 hours pi ure Testing Ref Formation Cliffhouse Point Lookout Dakota Requested BOP viewed by:	#/gal 8.8 - 9.0 8.4 - 9.0 1 Hole Size 13 1/2" 8-3/4" 6-1/4" // Hydraulic F ior to Spud. equireme Depth 4,121' 4,858' 6,877'	sec/qt Sufficient to clean hole. 1000 cfm for hammer Casing Size 9-5/8" 7" 4-1/2* Frac, FMC Unihead BOP testing, and Casing and Cementing most second for the second form of the s	### CC's/30 min <9	Sweep hole while Volume sufficient Landing Point 100' below LWIS DKOT pressure** g the following form: APPROVED:	whilst water drilling, to maintain a stable of the maintain a stable of	and clean wellbore

Additional Operator Remarks:

Notice of Staking was submitted on 06/24/2004

BP America Production Company respectfully requests permission to drill the subject well to a total depth of approximately 7246 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 - 300 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.

Our Form 46 drilling plan has changed slightly. The BOP Pressure Testing Requirements are located on the bottom of the Form 46.

APD/ROW

Cementing Program

Well Name: Location: County: State:	Storey LS 4N 34-28N-8W: San Juan New Mexico		1570' FEL		Field: API No. Well Flac Formation: KB Elev (est) GL Elev. (est)	Blanco Mesave Dakota MesaV 6276 6262	;	ota
Casing Program		Uala Ciaa	Casina Cina	Thursd	TOO	Stana Taal	0-40-0-4	
Casing String	Est. Depth (ft.)	Hole Size (in.)	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	(001.)	
Intermediate	3206	8.75	7	LT&C	Surface	NA		
Production -	7246	6.25	4.5	ST&C	3106	NA		
Casing Propertie	es:	(No Safety F	actor Included)					
Casing String	Size	Weight	Grade	Burst	Collapse	Joint St.	Capacity [Orift
0 0	(in.)	(lb/ft)		(psi.)	(psi.)	(1000 lbs.)		in.)
Surface	9.62	5 32	2 H-40	3370				8.845
Intermediate		7 20) K-55	3740	22	70 234	0.0405	6.456
Production -	4.	5 11.6	3 J-55	5350	49	60 154	0.0155	3.875
Mud Program								•
Apx. Interval	Mud Type	Mud Weight			ended Mud Pro	<u>perties Prio Ceme</u>	nting:	
(ft.)				PV	<20			
				YP	<10			
0 - SCP	Water/Spud	8.6-9.2	2	Fluid Los	k <15			
SCP - ICP	Water/LSND	8.6-9.2						
ICP - ICP2	Gas/Air Mist	N/	_					
ICP2 - TD	LSND	8.6 - 9.2	7					
Cementing Progra	am:							
			Surface		Intermediate	1	Production	
Excess %, Lead			100		75		40	
Excess %, Tail			NA		0		40	
BHST (est deg. F			75		120		183	
Special Instruction			1,6,7		1,6,8		2,4,6	
	 Do not wash Wash pumps Reverse out 	and lines.	9 8.					
	4. Run Blend Te							
			Density on 3.5"					
			ressurized mud : ent is not circulat					
					10 10 ha affaul	andina alem		
	o. ii cementis i	ioi circulated ti	surface, run ten	ip. survey	10-12 nr. atter i	anding plug.		
Notes:	*Do not wash u	o on top of plug	g. Wash lines bef	ore displac	ing production of	cement job to minr	mize drillout.	
Surface:			***************************************			·		· '
	Preflush		20 bbl.	FreshWa	iter			
	Slurry 1 TOC@Surface	160) sx Class C Cen + 2% CaOl2 (ac				195 d	uft
							0.4887 c	uft/ft OH
Slurry Properties:		Density		Yield		Water		
	Slurry 1	(lb/gal) 15,2	2	(ft3/sk) 1.27		(gal/sk) 5,8		

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

ntermediate:					
	Fresh Water	20 bbl	fresh water		
	Lead		270 sx Class "G" Cem	ent	694 cuft
	Slurry 1		+ 3% D79 extende	er	
	TOC@Surface		+1/4 #/sk. Celloph	ane Flake	
			+ 5 lb/sk Gilsonite	•	
	Tail		60 sx 50/50 Class "G		75 cuft
	Slurry 2		+ 2% gel (extende	•	
	500	O ft fill	+1/4 #/sk. Celloph		0.1503 cuft/ft OH
			+ 2% CaCl2 (acce		0.1746 cuft/ft csg an
			+ 5 lb/sk Gilsonite	1	
Slurry Propertie	s:	Density	Yield	Water	
		(lb/gal)	(ft3/sk)	(gal/sk)	
Slurry 1		11.4	2.63	15.8	
Slurry 2		13.5	1.27	5.72	
Casing Equipme	ent:	7", 8R, ST&C			
		•	with minimal LCM in mud) with minimal LCM in mud)		
		1 Float Collar (autofill 1 Stop Ring	with minimal LCM in mud)	y third collar	
Production:		1 Float Collar (autofill 1 Stop Ring Centralizers one in m 1 Top Rubber Plug	with minimal LCM in mud)	y third collar	
Production:	Fresh Water	1 Float Collar (autofill 1 Stop Ring Centralizers one in m 1 Top Rubber Plug	with minimal LCM in mud)	y third collar	
Production:	Fresh Water	Float Collar (autofill Stop Ring Centralizers one in m Top Rubber Plug Thread Lock Compo	with minimal LCM in mud) iddle of first joint, then ever		445 cuft
Production:		Float Collar (autofill Stop Ring Centralizers one in m Top Rubber Plug Thread Lock Compo	with minimal LCM in mud) iddle of first joint, then ever ound CW100	D124 / D154	445 cuft
Production:	Lead	1 Float Collar (autofill 1 Stop Ring Centralizers one in m 1 Top Rubber Plug 1 Thread Lock Compo	with minimal LCM in mud) iddle of first joint, then ever ound CW100 180 LiteCrete D961 / [D124 / D154 ntifoam	445 cuft
Production:	Lead Slurry 1	1 Float Collar (autofill 1 Stop Ring Centralizers one in m 1 Top Rubber Plug 1 Thread Lock Compo	with minimal LCM in mud) iddle of first joint, then ever ound CW100 180 LiteCrete D961 / E + 0.03 gps D47 ar	D124 / D154 ntifoam	445 cuft
Production:	Lead Slurry 1	1 Float Collar (autofill 1 Stop Ring Centralizers one in m 1 Top Rubber Plug 1 Thread Lock Compo	with minimal LCM in mud) iddle of first joint, then ever bund CW100 180 LiteCrete D961 / E + 0.03 gps D47 ar + 0.5% D112 fluid	D124 / D154 ntifoam loss	445 cuft 200 cuft
Production:	Lead Slurry 1 TOC, 400' above	1 Float Collar (autofill 1 Stop Ring Centralizers one in m 1 Top Rubber Plug 1 Thread Lock Compo	with minimal LCM in mud) iddle of first joint, then ever bund CW100 180 LiteCrete D961 / E + 0.03 gps D47 ar + 0.5% D112 fluid + 0.11% D65 TIC	D124 / D154 ntifoam l loss	
Production:	Lead Slurry 1 TOC, 400' abov Tail Slurry 2	1 Float Collar (autofill 1 Stop Ring Centralizers one in m 1 Top Rubber Plug 1 Thread Lock Compo	with minimal LCM in mud) iddle of first joint, then ever ound CW100 180 LiteCrete D961 / E + 0.03 gps D47 ar + 0.5% D112 fluid + 0.11% D65 TIC 140 sx 50/50 Class "G	D124 / D154 ntifoam loss "/Poz tender)	
Production:	Lead Slurry 1 TOC, 400' abov Tail Slurry 2	1 Float Collar (autofill 1 Stop Ring Centralizers one in m 1 Top Rubber Plug 1 Thread Lock Compo	with minimal LCM in mud) iddle of first joint, then ever ound CW100 180 LiteCrete D961 / E + 0.03 gps D47 ar + 0.5% D112 fluid + 0.11% D65 TIC 140 sx 50/50 Class "G + 5% D20 gel (ext + 0.1% D46 antifo	D124 / D154 ntifoam loss "/Poz tender)	
Production:	Lead Slurry 1 TOC, 400' abov Tail Slurry 2	1 Float Collar (autofill 1 Stop Ring Centralizers one in m 1 Top Rubber Plug 1 Thread Lock Compo	with minimal LCM in mud) iddle of first joint, then ever ound CW100 180 LiteCrete D961 / E + 0.03 gps D47 ar + 0.5% D112 fluid + 0.11% D65 TIC 140 sx 50/50 Class "G + 5% D20 gel (ext	D124 / D154 ntifoam loss n'/Poz tender) tender) tenne Flake	

Schlumberger Private Page 2

Cementing Program

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

			P	
				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
				5351

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, every 4th joint in mud drilled holes, none in air drilled holes.

1 Top Rubber Plug

1 Thread Lock Compound

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.

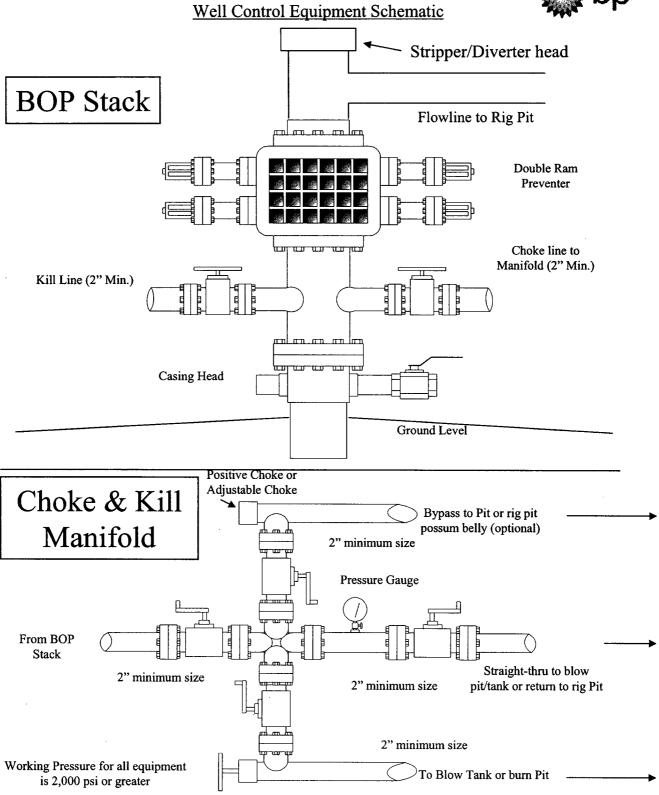
All ram type preventers and related control equipment will be hydraulically tested to 250 psi (low pressure) and 2000 psi (high pressure), upon installation, following any repairs or equipment replacements, or at 30 day intervals. Accessories to BOP equipment will include kelly cock, upper kelly cock with a handle available, floor safety valves and choke manifold which will also be tested to equivalent pressure.

FEDERAL CEMENTING REQUIREMENTS

- All permeable zones containing fresh water and other usable water containing 10,000 PPM or less total dissolved solids will be isolated and protected from contamination by cement circulated in place for the protection of permeable zones per the NTL-FRA 90-1 Section III A.
- 2. The hole size will be no smaller than 1 ½" larger diameter than the casing O.D. across all water zones.
- 3. An adequate spacer will be pumped ahead of the cement slurry to help prevent mud contamination of the cement.
- 4. An adequate number of casing centralizers will be run through usable water zones to ensure that the casing is centralized through these zones. The adequate number of centralizers to use will be determined by API SPEC 10D.
- 5. Centralizers will impart a swirling action around the casing and will be used just below and into the base of the lowest usable water zone.
- 6. A chronological log will be kept recording the pump and slurry information and will be sent to the BLM with the subsequent sundry.

BP American Production Company





Adjustable Choke