3				
Form 3160-3 (August 1999)	UNITED STATES		FORM APPRO OMB No. 100 Expires Novembe	4-0136
BURE	ARTMENT OF THE INTERIO AU OF LAND MANAGEME		5. Lease Serial No. SF - 080917	
APPLICATION	FOR PERMIT TO DRILL	R REENTER	6. If Indian, Allottee or Tribe	Name
1a. Type of Work: DRILL	REENTER		7. If Unit or CA Agreement, N	lame and No.
		Single Zone Multiple Zone	Lease Name and Well No. ATLANTIC B LS 4 M	
2. Name of Operator BP AMERICA PRODUCTION C	Contact: CHERRY HL COMPANY E-Mail: HLAVAC	LOBREOM 6.8 LOS	9. API Well No. 30-045-32	 2824
3a. Address HOUSTON, TX 77253-3092	3b. Phone No Ph: 281.36	. (include area code) 6.4081	10. Field and Pool, or Explora BASIN DK & BLANCO	
4. Location of Well (Report location cl	early and in accordance with any St	ate requirements.*)	11. Sec., T., R., M., or Blk. ar	nd Survey or Area
At surface SESW Lot At proposed prod. zone SESW Lot	18 930FSL 2470FWL 36.835	•	Sec 5 T30N R10W Me	r NMP
14. Distance in miles and direction from i 6 MILES EAST OF AZTEC, NM	nearest town or post office*		12. County or Parish SAN JUAN	13. State NM
 Distance from proposed location to ne lease line, ft. (Also to nearest drig. un 930 	earest property or lit line, if any) 16. No. of Activities, if any 322.12	res in Lease	17. Spacing Unit dedicated to	this well
18. Distance from proposed location to no	earest well, drilling, 19. Proposed	Depth	322-125/2 20. BLM/BIA Bond No. on fi	le
completed, applied for, on this lease,		•	WY2924	
21. Elevations (Show whether DF, KB, R 6221 GL	T, GL, etc. 22. Approxim 03/01/20	ate date work will start 05	23. Estimated duration 7	
	24	4. Attachments		
The following, completed in accordance with	th the requirements of Onshore Oil a	nd Gas Order No. 1, shall be attached	to this form:	
 Well plat certified by a registered survey A Drilling Plan. A Surface Use Plan (if the location is on SUPO shall be filed with the appropria 	National Forest System Lands, the	Item 20 above). 5. Operator certification	ions unless covered by an existing	
25. Signature (Electronic Submission)	Name (Printed CHERRY	/Typed) ' HLAVA Ph: 281.366.4081		Date 01/11/2005
Title AGENT				
Approved by (Signature)	Name (Printed	/Typed)		Date 2-25-05
Title AFM	Office	FO		
Application approval does not warrant or ce operations thereon. Conditions of approval, if any, are attached.		table title to those rights in the subject	lease which would entitle the appl	icant to conduct
Title 18 U.S.C. Section 1001 and Title 43 U States any false, fictitious or fraudulent state	S.C. Section 1212, make it a crime ements or representations as to any m	for any person knowingly and willfully atter within its jurisdiction.	to make to any department or age	ncy of the United
Additional Operator Remarks (see	e next page)		**************************************	
Elec	ctronic Submission #52875 v For BP AMERICA PRODUCT	verified by the BLM Well Infor FION COMPANY, sent to the I	mation System Farmington	
This action is subject to technical and procedural review pursuant to 43 CFR 3165.4	165.3		DRILLING OPERATIONS AL SUBJECT TO COMPLIANCE "GENERAL REQUIREMENT	

** 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., Aziec, 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

		WE	LL LO			EAGE DEDIC	ATIC	N PLA	AT		
30-045	API Number	182k	7/3	1 Puol Copte	12319 3	esin Dakot	a :	Blance	name Co M <i>es</i> a	vei	de
Property Code Property Name											Well Number
000 2	82	Atlantic B LS									# 4M
OGRID					* Operator					* E	Elevation
00077	OOO778 BP AMERICA PRODUCTION COMPANY									6221	
	<u> </u>				¹⁰ Surface L	ocation					
UL or Lot Na.	Section	Township Range Lot Idn Feet from the North/South line Feet from the East/West				East/West lir	ıc	County			
Lot 18 (N)	5	30 N	10 W		930	SOUTH	2	470	WES	ST	SAN JUAN
	· · · · · · · · · · · · · · · · · · ·	<u> </u>	" Bott	om Hole	Location If	Different From	m Sur	face			
' UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet	from the	East/West li	ine	County
					140 W 141						
13 Dedicated Acre	s '' Join	t or Intill 14	Consolidatio	n Code 15	Order No.	<u> </u>					
322.12		***									
NO ALLO	WABLE	WILL BE	ASSIGNE	ED TO TH	IS COMPLETION	ON UNTIL ALL	INTER	ESTS H	AVE BEEN	V CO	VSOLIDATED
		OR A	NON-ST	ANDARE	UNIT HAS BI	EEN APPROVED	BYT	HE DIV	ISION		
16				5271 (R)				"OPE	RATOR (CERT	IFICATION
				1							ion contained herein is
£						_	8	true and c	omplete to the t	best of n	ny knowledge and belief.
1344'(R) Fot 8			Lot 7		Lot 6	Lot 5	1324				
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					NO.			Printed N	lame / A/	ave	1.

egulatory Analyst Lot 9 Lot 10 **** 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 16 Lot 15 Lot 13 Lot 14 November 8, 2004

Date of Survey Signature and Seal of Professional Surveyor 2470' Lot 17 Lot 19 Lot 18 Lot 20 930

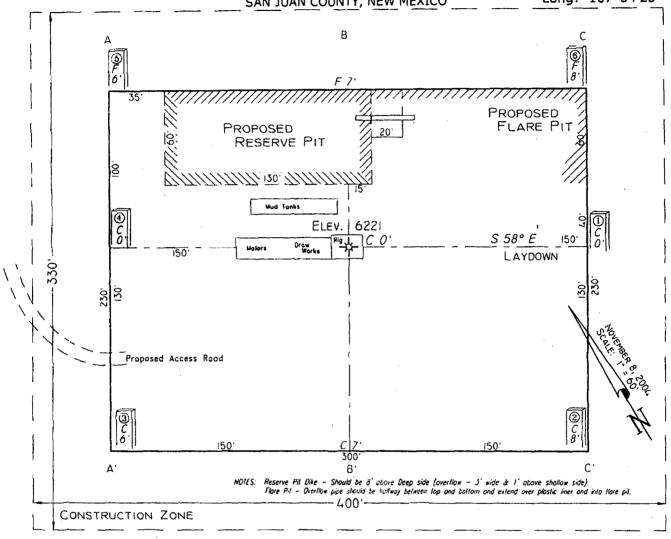
(R) - BLM Record

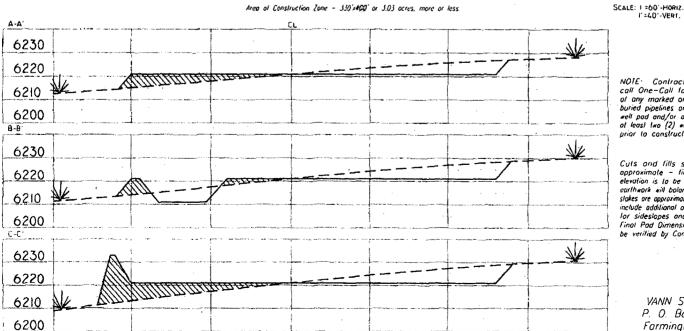
Lat: 36 82 583 Love: 107.78698

PAD LAYOUT PLAN & PROFILE BP AMERICA PRODUCTION COMPANY Atlantic B LS #4M

930' F/SL 2470' F/WL SEC. 5, T30N, R10W, N.M.P.M. SAN JUAN COUNTY, NEW MEXICO

Lat: 36°50'09" Long: 107°54'25"





NOIE: Contractor should 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 ore approximate - 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

Submit 3 Copies To Appropriate District	. State of New Me	exico	Form C-10	JJ	
Office District I	Energy, Minerals and Natu	ral Resources	May 27, 20	04	
1625 N. French Dr., Hobbs, NM 88240			WELL API NO.		
District II	OIL CONSERVATION	NOISIVIO	NEW WELL		
1301 W. Grand Ave., Artesia, NM 88210 District III	1220 South St. Fra	'	5. Indicate Type of Lease		
1000 Rio Brazos Rd., Aztec, NM 87410		STATE FEE			
District IV	Santa Fe, NM 8	/303	6. State Oil & Gas Lease No.		
1220 S. St. Francis Dr., Santa Fe, NM 87505					
	ICES AND REPORTS ON WELLS	3	7. Lease Name or Unit Agreement Name	;	
	SALS TO DRILL OR TO DEEPEN OR PL		Atlantic B LS		
l	CATION FOR PERMIT" (FORM C-101) F	OR SUCH	(APD filed with BLM SF 080917)		
1. Type of Well: Oil Well	ROPOSALS.) Type of Well: Oil Well Gas Well Other				
	Gus Weir Zu Guier		4 M		
2. Name of Operator			9. OGRID Number		
BP AMERICA PRODUCTION	COMPANY		000778		
3. Address of Operator		*	10. Pool name or Wildcat		
P.O. BOX 3092 HOUSTON, TX	77079-2064		Basin Dakota & Blanco Mesaverde		
4. Well Location			• ,		
Unit Letter N:	930 feet from the South	line and 2470	feet from the Westline		
Section 5	Township 30N	Range 10W	NMPM SAN JUAN County		
	11. Elevation (Show whether DR				
	622	,			
Pit or Below-grade Tank Application 🗵	or Closure 🗌				
 Pit type_DRILLINGDepth to Groun	dwater ≥100' Distance from nearest fre	sh water well > 1000'_ I	Distance from nearest surface water > 1000'		
Pit Liner Thickness: 12 mil	Below-Grade Tank: Volume		tion Material IMPERVIOUS		
12. Check	Appropriate Box to Indicate N	lature of Notice,	Report or Other Data		
NOTICE OF IN	NTENTION TO:	CLID	SEQUENT REPORT OF:		
	41 F 41 1 1 1 1 1 1 1 1	i Subi	SEQUENT REFUNT OF.		
		l		7	
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Additional Operator Remarks Atlantic B LS 4M APD

BP America Production Company respectfully requests permission to drill the subject well to a total depth of approximately 7500'. 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 +/- 600 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

BP AMERICA PRODUCTION COMPANY DRILLING AND COMPLETION PROGRAM 11/22/2004 Field: Blanco Mesaverde/Basin Dakota Lease: Atlantic B LS Well Name & No. Atlantic B LS #4M County: San Juan, New Mexico Surface Location: 5-30N-10W: 930' FSL, 2470' FWL Surface: Lat: 36.8352921 Long:-107.9061237 Minerals: BH Location: same Rig: Aztec 184 OBJECTIVE: Drill 270' below the top of the Two Wells Mbr, set 4-1/2" production casing. Stimulate DK, MF, and PL intervals. METHOD OF DRILLING APPROXIMATE DEPTHS OF GEOLOGICAL MARKER TYPE OF TOOLS **DEPTH OF DRILLING** Actual GL: Estimated KB: 5,888.0' 0 - TD Marker SUBSEA TVD APPROX. MD Rotary LOG PROGRAM Oio Alamo 4,805' 1.430 1.430' Kirtland 1,568 1,568 Type Depth Interval 4,667 Fruitland Single Run 3.949 2.286 2,286 Fruitland Coal 3,706 2,529 2,529 **Pictured Cliffs** 3,370 2.865 2.865 Lewis 3,197 3.038 3.038 Cliff House # Cased Hole 1,867 4,368 4,368 # Menefee TDT- CBL TD to 7" shoe. 1,562 4,673 4,673 Point Lookout # Identify 4 1/2" cement top 1,145 5,090 5,090' REMARKS: Mancos 5,516 5,516 719' Greenhorn -890' 7.125 7,125 Graneros (bent,mkr) -943' 7,178 7,178 Two Wells 7,230' # -995' 7,230' Paguate # 7,322 -1,087 7,322 Cubero # -1,126' 7,361' 7,361' L. Cubero # -1,174 7,409 7,409 Encinal Cyn # 7,444 -1.2097,444 TOTAL DEPTH: -1,265 7,500 7,500 # Probable completion interval * Possible Pay SPECIAL TESTS **DRILL CUTTING SAMPLES** DRILLING TIME TYPE **FREQUENCY DEPTH FREQUENCY** DEPTH 30'/10' intervals 3,138' to TD Geolograph 0 - TD REMARKS: MUD PROGRAM: Interval Type □ Mud #/gal Vis, □sec/qt /30 min Other Specification 8.8 - 9.0 Sufficient to clean hole. 200' Spud Sweep hole while whilst water drilling, LCM onsite 3,138' Water/LSND 8.4 - 9.0 <9 7,500 1 1000 cfm for bit Volume sufficient to maintain a stable and clean wellbore CASING PROGRAM: **Casing** □ String Depth Size Casing Size Grade, Thread Weight **Landing Point** Cement 200' 9-5/8" 32# Surface/Conductor 13 1/2" H-40 ST&C cmt to surface 8-3/4" Intermediate 1 3,138 7" J/K-55 ST&C 20# 100' below LWIS cmt to surface 7,500 6-1/4" Production 4-1/2" J-55 11.6# DKOT 150' inside Intermediate -TOC survey required CORING PROGRAM: None COMPLETION PROGRAM: Rigless, 2-3 Stage Limited Entry Hydraulic Frac, FMC Unihead **GENERAL REMARKS:** Notify BLM/NMOCD 24 hours prior to Spud, BOP testing, and Casing and Cementing. **BOP Pressure Testing Requirements Formation** Anticipated bottom hole pressure Depth Max anticipated surface pressure** Cliffhouse 4,368 500 0 **Point Lookout** 5,090' 600 0 7,230 Dakota 2600 1009.4 Requested BOP Pressure Test Exception = 1500 psi ** Note: Determined using the following formula: ABHP - (.22*TVD) = ASP Form 46 Reviewed by: Logging program reviewed by: PREPARED BY: APPROVED: DATE: APPROVED: DATE: JMP HGJ 22-Nov-04 Form 46 7-84bw For Drilling Dept. For Production Dept.

Cementing Program

Well Name: Location: County:	Atlantic B LS #4 5-30N-10W: 9 San Juan		' FWL		Well Flac	Dianas Ma	securida (Pasis Deleta	
State:	New Mexico			···	Formation: KB Elev (es GL Elev. (e	st)	esaverde/Basin Dakota 5888 5874	
Casing Program Casing String	Est. Depth	Hole Size	Casing Size	Thread	TOC	Stage Too		
Curtoso	(ft.) 200	(in.) 13.5	(in.) 9.625	ST&C	(ft.) Surface	Or TOL (ft NA	.) (bbl.)	
Surface Intermediate		8.75	9.623 7	LT&C	Surface	NA NA		
Production -	3138 7500	6.25	4.5	ST&C	3038	NA NA		
Casing Propertie			actor Included)	0140	0000	1471		
Casing String	Size	Weight	Grade	Burst	Collapse	Joint St.	Capacity Drift	
Casing String	(in.)	(lb/ft)	Ciaco	(psi.)	(psi.)	(1000 lbs.)	•	
Surface	9.62		2 H-40	3370	.,	1400		.845
Intermediate			0 K-55	3740		2270		.456
Production -	4.		6 J-55	5350		4960		.875
Production -	٦.	J 11.	0 0-00	3330	,	4500	" "	.675
Mud Program								
Apx. Interval	Mud Type	Mud Weight	t	Recomm	ended Mud I	Properties Prio C	ementina:	
(ft.)			· •	PV	<20	<u> </u>	<u> </u>	
()				YP	<10			
0-SCP	Water/Spud	8.6-9.	2	Fluid Los	· · · -			
SCP - ICP	Water/LSND	8.6-9.		1 10.0 200				
ICP - ICP2	Gas/Air Mist	0.0 S.						
ICP2 - TD	LSND	8.6 - 9.	_					
Cementing Progra								
			Surface		Intermed	iate	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	
	1. Do not wash	pumps and lin			.,-,-		_,,,,	
	2. Wash pumps	•						
	3. Reverse out							
	4. Run Blend To	est on Cemen	t ·					
	5. Record Rate	Pressure, an	d Density on 3.5"	disk				
			pressurized mud					
			ent is not circula					
	8. If cement is r	not circulated t	o surface, run ter	np. survey	10-12 hr. aft	er landing plug.		
						0. 0		
Notes:								
	*Do not wash u	p on top of plu	g. Wash lines be	fore displac	ing production	on cement job to	minmize drillout.	
Surface:		.:			····			
	Preflush		20 bbl.	FreshWa	iter .			
	Slurry 1	15	4 sx Class C Cer	ment			195 cuft	
	TOC@Surface	10	+ 2% CaCl2 (a				133 Cuit	
	. Cogodinace		i Em Daoiz (a	occiorator)			0.4887 cuft/ft OF	ч
							0.4007 Cuit/it Of	•
Slurry Properties:		Density		Yield		Water		
Jidny is toporties.		(lb/gal)						
		(ID/gal)		(ft3/sk)		(gal/sk)		
	Shurey 1	4.5	2		,		E 0	
	Slurry 1	15.	2	1.27	7		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 bb	tre	esh water		
		•				
	Lead		257 sx	Class "G" Cement		676 cuft
	Slurry 1			3% D79 extender		
	TOC@Surface			1/4 #/sk. Cellophane Fla	ake	
			+	5 lb/sk Gilsonite		
	Tail			c 50/50 Class "G"/Poz		75 cuft
	Slurry 2			2% gel (extender)		
	500	O ft fill		1/4 #/sk. Cellophane Fla		, 0.1503 cuft/ft OH
				2% CaCl2 (accelerator)	0.1746 cuft/ft csg ar
			+	5 lb/sk Gilsonite		
urry Properties	s:	Density	Y	ield	Water	
		(lb/gal)	(fi	t3/sk)	(gal/sk)	
urry 1		11.4		2.63	15.8	
lurry 2		13.5		1.27	5.72	
asing Equipme	ent:	7", 8R, ST&C				
		1 Float Shoe (autofi		•		
		1 Float Collar (autof 1 Stop Ring	ill with minim	•	collar	
roduction:	Front Water	Float Collar (autof Stop Ring Centralizers one in Top Rubber Plug Thread Lock Com	ill with minim middle of firs pound	al LCM in mud)	collar	·
roduction:	Fresh Water	Float Collar (autof Stop Ring Centralizers one in Top Rubber Plug	ill with minim middle of firs pound	al LCM in mud)	collar	
roduction:	Fresh Water	Float Collar (autof Stop Ring Centralizers one in Top Rubber Plug Thread Lock Com	ill with minim middle of firs pound	al LCM in mud)	collar	
roduction:		Float Collar (autof Stop Ring Centralizers one in Top Rubber Plug Thread Lock Com	ill with minim middle of firs pound	al LCM in mud) st joint, then every third		438 cuft
roduction:	Lead	Float Collar (autof Stop Ring Centralizers one in Top Rubber Plug Thread Lock Com	ill with minim middle of firs pound C	al LCM in mud) st joint, then every third W100	D154	438 cuft
roduction:	Lead Slurry 1	1 Float Collar (autof 1 Stop Ring Centralizers one in 1 Top Rubber Plug 1 Thread Lock Com	ill with minim middle of firs pound C 174 Li +	al LCM in mud) It joint, then every third W100 IteCrete D961 / D124 / 1 0.03 gps D47 antifoam	D154	438 cuft
roduction:	Lead	1 Float Collar (autof 1 Stop Ring Centralizers one in 1 Top Rubber Plug 1 Thread Lock Com	ill with minim middle of firs pound C 174 Li + +	al LCM in mud) st joint, then every third W100	D154	438 cuft
roduction:	Lead Slurry 1 TOC, 150' abov	1 Float Collar (autof 1 Stop Ring Centralizers one in 1 Top Rubber Plug 1 Thread Lock Com	ill with minim middle of firs pound C 174 Li + +	al LCM in mud) st joint, then every third W100 steCrete D961 / D124 / I 0.03 gps D47 antifoam 0.5% D112 fluid loss 0.11% D65 TIC	D154	
roduction:	Lead Slurry 1 TOC, 150' abov	1 Float Collar (autof 1 Stop Ring Centralizers one in 1 Top Rubber Plug 1 Thread Lock Com	ill with minim middle of firs pound 174 Li + + 148 ss	al LCM in mud) st joint, then every third W100 steCrete D961 / D124 / (0.03 gps D47 antifoam 0.5% D112 fluid loss 0.11% D65 TIC	D154	438 cuft 213 cuft
roduction:	Lead Slurry 1 TOC, 150' abov Tail Slurry 2	1 Float Collar (autof 1 Stop Ring Centralizers one in 1 Top Rubber Plug 1 Thread Lock Com 10 bb	ill with minim middle of firs pound 174 Li + + 148 ss +	al LCM in mud) st joint, then every third W100 steCrete D961 / D124 / 1 0.03 gps D47 antifoam 0.5% D112 fluid loss 0.11% D65 TIC x 50/50 Class "G"/Poz 5% D20 gel (extender)	D154	
roduction:	Lead Slurry 1 TOC, 150' abov Tail Slurry 2	1 Float Collar (autof 1 Stop Ring Centralizers one in 1 Top Rubber Plug 1 Thread Lock Com	ill with minim middle of firs pound 174 Li + + 148 ss + +	al LCM in mud) st joint, then every third W100 iteCrete D961 / D124 / 0.03 gps D47 antifoam 0.5% D112 fluid loss 0.11% D65 TIC x 50/50 Class "G"/Poz 5% D20 gel (extender) 0.1% D46 antifoam	D154	
roduction:	Lead Slurry 1 TOC, 150' abov Tail Slurry 2	1 Float Collar (autof 1 Stop Ring Centralizers one in 1 Top Rubber Plug 1 Thread Lock Com 10 bb	ill with minim middle of firs pound 174 Li + + 148 ss + + +	al LCM in mud) st joint, then every third w100 steCrete D961 / D124 / 1 0.03 gps D47 antifoam 0.5% D112 fluid loss 0.11% D65 TIC x 50/50 Class "G"/Poz 5% D20 gel (extender) 0.1% D46 antifoam 1/4 #/sk. Cellophane F	D154	
roduction:	Lead Slurry 1 TOC, 150' abov Tail Slurry 2	1 Float Collar (autof 1 Stop Ring Centralizers one in 1 Top Rubber Plug 1 Thread Lock Com 10 bb	ill with minim middle of firs pound 174 Li + + + + + + + + + + + + + + + + + +	al LCM in mud) st joint, then every third W100 iteCrete D961 / D124 / 0.03 gps D47 antifoam 0.5% D112 fluid loss 0.11% D65 TIC x 50/50 Class "G"/Poz 5% D20 gel (extender) 0.1% D46 antifoam	D154	

Schlumberger Private Page 2

Amoco

Cementing Program

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

•		
	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
				5516

Casing Equipment:

- 4-1/2", 8R, ST&C
- 1 Float Shoe (autofill with minimal LCM in mud)1 Float Collar (autofill with minimal LCM in mud)
- 1 Stop Ring

Centralizers, as needed 1 Top Rubber Plug

1 Thread Lock Compound

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



