Form 3160-3 (August 1999)

## UNITED STATES

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

DEPARTMENT OF T BUREAU OF LAND N		5. Lease Serial No.	
		SF +077111 080246	
APPLICATION FOR PERMIT 1	TO DRILL OR REENTER	6. If Indian, Allottee or Tribe Nam	.e
Ia. Type of Work: DRILL REENTER		7. If Unit or CA Agreement, Name	and No.
1b. Type of Well: ☐ Oil Well     Gas Well ☐ Oth		8. Lease Name and Well No. FLORANCE 119S	
	CHERRY HLAVA E-Mail: hlavacl@bp.com	9. API Well No. 30-045-32	368
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 FRUITLAND COA	L
4. Location of Well (Report location clearly and in accordance)	nce with any State requirements.*)	11. Sec., T., R., M., or Blk. and Su	irvey or Area
At surface SWSE 865FSL 1978FEL 3 At proposed prod. zone 1970 1446	1 12 13 19 15 16 18 18 18 18 18 18 18 18 18 18 18 18 18	See 22 T29N R9W Mer N	MP
14. Distance in miles and direction from nearest town or post of the MILES EAST FROM BLOOMFIELD, NM	office* OCT 2004	12. County or Parish SAN JUAN 2	13. State NM
<ol> <li>Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 865</li> </ol>	16. No. of Acres an Lease	17. Spacing Unit dedicated to this	well
<ol> <li>Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.</li> </ol>	2380 MD	20. BLM/BIA Bond No. on file WY2924	
21. Elevations (Show whether DF, KB, RT, GL, etc. 5759 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:	
<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 Systems Supposed Suppos</li></ol>	Item 20 above).  Em Lands, the 5. Operator certification	ons unless covered by an existing bond	
25. Signature (Electronic Submission)	Name (Printed/Typed) CHERRY HLAVA	Date 05	6/19/2004
Title REGULATORY ANALYST			
Approved by (Signatury)	Name (Printed/Typed)	Date	-12-8
Title AFM	Office FDO		
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 subject	ease which would entitle the applicant	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 representati	nake it a crime for any person knowingly and willfully ions as to any matter within its jurisdiction.	to make to any department or agency of	of the United
Additional Operator Remarks (see next page)			

Electronic Submission #30902 verified by the BLM Well Information System For BP AMERICA PRODUCTION COMPANY, sent to the Farmington

This action is sub-, mito architecture mits. procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

DEJECT 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

## 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

PO Box 2088, San	ta Fe, NM 8	7504-2088									[	AM	ENDED REPORT
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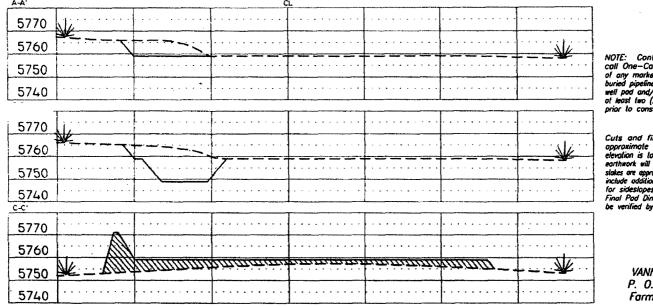
Submit 3 Copies To Appropriate District	State of	New Mo	exico		Form C	
Office District I	Energy, Minerals	s and Nati	aral Resources	LANGUE A DY MO	March 4	1, 2004
1625 N. French Dr., Hobbs, NM 88240				WELL API NO	). New Well	)
<u>District II</u> 1301 W. Grand Ave., Artesia, NM 88210	OIL CONSER			5. Indicate Typ		
<u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410	1220 Sout			STATE	FEE	
District IV	Santa F	e, NM 8	7505	6. State Oil &	Gas Lease No.	
1220 S. St. Francis Dr., Santa Fe, NM 87505						1
	CES AND REPORTS C	N WELLS	S	7. Lease Name	or Unit Agreement N	ame
(DO NOT USE THIS FORM FOR PROPOS					Florance	
DIFFERENT RESERVOIR. USE "APPLIC PROPOSALS.)	AIION FOR FERMIT (FOI	XIVI C-101) F	OK 30CH	(Federa	al well SF – 077111)	
1. Type of Well:				8. Well Number	<u></u>	
Oil Well Gas Well	Other			119 S	<b>.</b>	
				O CONTO N	1	
2. Name of Operator BP AMERICA PRODUCTION O	$\mathbf{r}_{0}$			9. OGRID Nur	noer	
3. Address of Operator	,,,			10. Pool name	or Wildcat	
P.O. BOX 3092 HOUSTON, TX	77079-2064			Basin Fruitlan	d Coal	
4. Well Location						
Huit Letton O . 965	fact from the COLT	rtr 1	ing and 1275	fact from the E	ACT line	
Unit Letter O: 865	_ reet from the _ <u>500</u>	<u> </u>	ine and <u>1375</u>	feet from the E	ASIime	l
Section 22	Township 29N	Ī	Range 09W	NMPM	SAN JUAN Cou	inty
	11. Elevation (Show w		R, RKB, RT, GR, etc	.)	<ul> <li>A property of the property of the</li></ul>	
	-24 1- 1 1- 4 1- 1-	5759'		- 1)	And Strangers	
Pit or Below-grade Tank Application (For						
Pit Location: UL O Sect 22 Twp					nearest fresh water well <u>&gt;1</u>	000'
Distance from nearest surface water > 10	<u>000'</u> Below-grade Tank Loc	ation UL_O	Sect_22Twp29	<u>N_Rng_09W</u> ;		
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965' feet from the SOUTH line and 15	505_feet from the _EAST_lin	ie PLEASE	SEE ATTACHED PA	AD LAYOUT		
965'_feet from the SOUTH_line and 15	505_feet from the _EAST_lin	ne PLEASE	SEE ATTACHED PA	LD LAYOUT		
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## PAD LAYOUT PLAN & PROFILE BP AMERICA PRODUCTION COMPANY

Florance # 1198 1870' F/SL 1440' F/EL SEC. 22, T29N, R9W, N.M.P.M.

Lat: 36°42'32" Long: 107°45'43" SAN JUAN COUNTY, NEW MEXICO В C Δ (E) F: (B) C 6' PROPOSED FLARE PIT PROPOSED 20' 8 RESERVE PIT 777777777777 0 Existing Weter Run S Existin Tonk ELEV. | 5759 C S 70° E 150 LAYDOWN 330 Existing Separator 30 Access Road Existing PAD EXISTING NOTE: Existing production equipment shall be removed prior to construction & drilling. Existing Wellhead @#.4 (Q) (Q) 150 B\* NOTES: Reserve Pil Dita - Should be 8' above Deep side (overflow - 3' mide & 1' above shallow side).
There Pil - Overflow pilor should be halfway believe top and balliam and extend over plastic finar and oils flow pil. 400 CONSTRUCTION ZONE

Area of Construction Zone - 330'x400' or 3.03 ocres, more or less



NOTE: Contractor should NOTE: Controctor should call One-Call for Ication of any marked or unmarked buried pipelines or cables on well pod and/or occas rood of least two (2) working days prior to construction.

Cuts and fills shown are 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

Form 3160-5 (August 1999)

## **UNITED STATES** DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB NO. 1004-0135 Expires: November 30, 2000

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

5. Lease Serial No. NMSF080246

abandoned wel	II. Use form 3160-3 (APD	) for such p	oposals.	[	6. If Indian, Allottee or	Tribe Name
SUBMIT IN TRII	PLICATE - Other instruct	ions on reve	erse side.		7. If Unit or CA/Agree	ment, Name and/or No.
1. Type of Well					8. Well Name and No.	
Oil Well 🛛 Gas Well 🗖 Oth	ner			İ	FLORANCE 119S	
Name of Operator     BP AMERICA PRODUCTION		CHERRY HLA E-Mail: HlavaCl			9. API Well No. 30-045-32368-0	0-X1
3a. Address 200 ENERGY CT FARMINGTON, NM 87402		Ph: 281.366	(include area code 3.4081	e)	10. Field and Pool, or I BASIN FRUITLA	
4. Location of Well (Footage, Sec., 7	., R., M., or Survey Description,				11. County or Parish, a	and State
Sec 22 T29N R9W SWSE 869 36.42400 N Lat, 107.45700 W					SAN JUAN COU	INTY, NM
12. CHECK APPI	ROPRIATE BOX(ES) TO	INDICATE	NATURE OF	NOTICE, RE	PORT, OR OTHER	R DATA
TYPE OF SUBMISSION			ТҮРЕ С	F ACTION		
Notice of Intent	Acidize	Deep	en	□ Producti	on (Start/Resume)	☐ Water Shut-Off
_	Alter Casing	☐ Fract	ure Treat	☐ Reclama	tion	☐ Well Integrity
☐ Subsequent Report	Casing Repair	□ New	Construction	□ Recomp	lete	Other Change to Original A
Final Abandonment Notice	Change Plans	□ Plug	and Abandon	☐ Tempora	rily Abandon	PD
	Convert to Injection	□ Plug	Back	□ Water D	isposal	
determined that the site is ready for for Original APD was submitted of BP America Production Compsubject well as follows: From: 865' FSL & 1375' FEL Store 1870' FSL & 1440' FSL Store 1870' FSL Store 18	on 5/19/04. Location had to pany respectfully requests Section 22 T29N & R9W ection 22 T29N & R9W	permission to	amend the lo	ocation for the	0 1 1 1 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2/2/2
14. I hereby certify that the foregoing is	s true and correct. Electronic Submission #: For BP AMERICA itted to AFMSS for process	PRODUCTIO	N ČO, sent to th	ne Farmington	•	
Name (Printed/Typed) CHERRY	HLAVA		Title REGU	LATORY ANA	ALYST	
Signature (Electronic S	Submission)		Date 09/29/2	2004		
_	THIS SPACE FO	R FEDERA	L OR STATE	OFFICE US	SE .	
Approved By  Conditions of approval, it any, are attached the applicant holds legal or equivalent would entitle the applicant to condition would entitle the applicant to condition the	uitable title to those rights in the uct operations thereon.	subject lease	Title Office F	1FM DO	ake to any department or	Bate 12- 04
States any false, fictitious or fraudulent	statements or representations as	to any matter wi	thin its jurisdiction	n. williully to mi	ake to any department or	agency of the United

## **Additional Operator Remarks:**

Notice of Staking was submitted on 05/07/2004

BP America Production Company respectfully requests permission to drill the subject well to a total depth of approximately 2380 feet and complete into the Basin Fruitland Coal as per the attached drilling plan.

#### SUPPLEMENTAL TO SURFACE USE PLAN

New Facilities:

A 4 diameter buried steel pipeline that is + or - 500 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.

## **BP AMERICA PRODUCTION COMPANY DRILLING AND COMPLETION PROGRAM**

Prospect Name: Florance 119S

**Well No: 119S** 

Lease:

Surface Location: Section 22, T29N, R09W; 865'

FSL, 1375' FEL

County: San Juan State: New Mexico

Date: April 26, 2004

Field: Basin Fruitland Coal

OBJECTIVE: Drill to a TE	of 2380' kb	set 7" casing	and perf	f and frac the							·		
MET	HOD OF I	DRILLING				APPROXIM		DEPT	HS OF	GEOLOG	ICAL	MARI	<b>KER</b>
TYPE OF TOOLS	D	EPTH OF	DRILL	ING	L	Estimated	dGL:	575	6	Estimat	ed KE	3: 570	69
Rotary	0	- 2367' M	ID, 238	0' KB	Г	MARKER	7		S	UBSEA	N	IEAS.	DEPTH
	OG PRO	GRAM			$\neg$	Ojo Alamo	ľ			468	30		1089
						Kirtland				451	14		1255
					1	Fruitland			ļ	375	52		2017
TYPE	0	EPTH INVE	ERAL			Fruitland Coa	u }	*#	-	375	52		2017
OPEN HOLE					F	Pictured Cliffs	s	*		354	10		2229
Run1: Run Platform Expre		D up to min	imum ch	narge.					l		- 1		
(array induction, 3-detector											l	*	
Density, compensated neu caliper, microlog, SP and g													
ray). (see Remarks section											•		
below).													
,											1		
Run 2: Run dipole sonic		D up to min	imum ch	narge.			i						
(compressional and shear													
required for frac gradient lo	og)						1				-		
551151/6							]						
REMARKS:	Pulle Donoits	. Dropontoti	on /E" 1	OO'\ with									
- Primary presentation is E <1.75 g/cc shaded as coal.					.		- 1				- {		
interval only. Three final p					1								
Customer LAS file to Denn													
hilkewdn@bp.com					- [		Į.				-		
						TOTAL DEPT				338			2380
					#	Probable co	omplet	tion int	erval	* Possi	ble Pa	ıy	
	PECIAL T	ESTS				DRILL CUT						NG TIN	
TYPE						FREQUENC		DEPT	Н	FREQU			EPTH
None					r	none		none		Geologra	iph	0-:	2380
REMARKS:					-								
MUD PROGRAM:							1			1	_		
Approx. Interval		Type Mud		Weight, #/	ga	Vis, sec/qt	<u> </u>	/L CC	s/30 mi	n Othe	r Sp	ecifica	tion
0 - 120		Spud	10	8.6-9.2									
120 - 2380	(1)	Water/LSN	שא	8.6-9.2			<(	<u> </u>		<u>-</u>			
REMARKS:													
(1) The hole will require													
CASING PROGRAM: (													
Casing String	Estimate	ed Depth	Casin	g Size	Gra		Wei		Hole S		nding	Pt, Cr	nt, Etc.
Surface/Conductor		120	Ì			0, 8 RND		20.0		2.5" 1			
Intermediate	L	2380		5-1/2"	J-5	5, 8 RND		15.5	8.	75"   1			
REMARKS:													
(1) Circulate Cement to	Surface												
CORING PROGRAM:													
None													
COMPLETION PROGR													
Rigless, Single Stage Li	mited Entr	y Hydraulic	c Frac										
GENERAL REMARKS:					_								
Notify BLM/NMOCD 24	hours prio	r to Spud,	BOP te										
Form 46 Reviewed by:					ging	program re	viewe	ed by:	N/A	١			
PREPARED BY:	•	APPR	OVED:			DATE:				- 1			
Daniel Constru						1/00/00							
Daniel Crosby						4/26/200	<u>U4</u>						
Form 46 12-00 MNP													

## **BP America Production Company BOP Pressure Testing Requirements**

Well Name: Florance 119S

County: San Juan

State: New Mexico

Formation	TVD	Anticipated Bottom Hole Pressure	Maximum Anticipated Surface Pressure **
Ojo Alamo	1089		
Kirtland	1255		
Fruitland Coal	2017	400	0
Lewis Shale Cliff House			
Menefee Shale Point Lookout			
Mancos Dakota			

\*\* Note: Determined using the following formula: ABHP - (.22\*TVD) = ASP

Requested BOP Pressure Test Exception: | 850 psi

SAN JUAN BASIN **Fruitland Formation Pressure Control Equipment** 

### **Background**

The objective Fruitland Coal 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 Fruitland Coal. 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

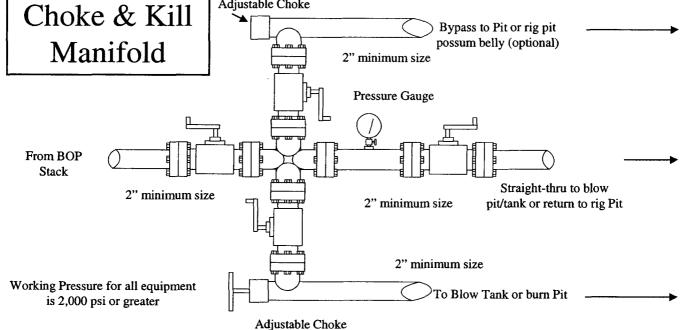
head.

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 American Production Company Well Control Equipment Schematic



Stripper/Diverter head **BOP Stack** Flowline to Rig Pit Double Ram Preventer Choke line to Manifold (2" Min.) Kill Line (2" Min.) Casing Head Ground Level Positive Choke or Adjustable Choke Choke & Kill Bypass to Pit or rig pit possum belly (optional) Manifold 2" minimum size



## **Cementing Program**

		_							
Well Name:	Florance 119S	1			Field:	Basin Fru	itland C	oal	
Location:	Sec 22 - 29N - C	9W. 865' FSL.	1375' FEL		API No.				
County:	San Juan	7			Well Flac				
•	New Mexico	-			Formation:	Fruitland	Coal		
State:	New Mexico					Fluidand			
					KB Elev (est)	ļ	5769		
					GL Elev. (est)		5756		
Casing Program:									
Casing String	Est. Depth	Hole Size	Casing Size	Thread	TOC				
• •	(ft.)	(in.)	(in.)		(ft.)				
Surface	120	12.5	8 5/8	8rd	Surface				
Production -	2380	8.75	5 1/2	8rd	Surface				
				olu	Suriace				
Casing Propertie		•	actor included)						
Casing String	Size	Weight	Grade						
	(in.)	(lb/ft)							
Surface	8 5/8	3 20	H-4	0					
Production -	5 1/2		J-5	5					
1 Toddollott	0 1/1	- 10.0	0.0	•					
Mud Drogram	<del></del>		***********						
Mud Program				_					
Apx. Interval	Mud Type	Mud Weight			nded Mud Prope	rues Prio C	ementing	<b>1</b> .	
(ft.)				PV	<20				
				YP	<10				
0-SCP	Water/Spud	8.6-9.2		Fluid Loss	<6				
SCP - TD	Water/LSND	8.6-9.2							
001 - 10	Water/LOND	0.0-3.2							
Companies Dec								<del></del>	
Cementing Progra	un.		0		<b>5</b>				
_			Surface		Production				
Excess %, Lead			100		40				
Excess %, Tail			NA		40				
BHST (est deg. F)	•		75		120				
Special Instruction			1,6,7		2,4,6				
opecial manucion					2,4,0				
	1. Do not wash p		S.						
	2. Wash pumps	and lines.							
	<ol><li>Reverse out</li></ol>								
	4. Run Blend Te								
		st on Cement							
			Density on 3.5"	disk					
	5. Record Rate,	Pressure, and							
	5. Record Rate, 6. Confirm densi	Pressure, and tometer with pr	essurized mud	scales					
	<ul><li>5. Record Rate,</li><li>6. Confirm densi</li><li>7. 1" cement to s</li></ul>	Pressure, and tometer with pr surface if ceme	essurized mud : nt is not circulat	scales ed.					
	5. Record Rate, 6. Confirm densi	Pressure, and tometer with pr surface if ceme	essurized mud : nt is not circulat	scales ed.	-12 hr. after land	ing plug.			
	<ul><li>5. Record Rate,</li><li>6. Confirm densi</li><li>7. 1" cement to s</li></ul>	Pressure, and tometer with pr surface if ceme	essurized mud : nt is not circulat	scales ed.	-12 hr. after land	ing plug.			
Notes:	5. Record Rate, 6. Confirm densi 7. 1" cement to s 8. If cement is no	Pressure, and tometer with pr surface if ceme of circulated to	essurized mud a nt is not circulat surface, run ten	scales ed. np. survey 10				· ALLOS	
Notes:	<ul><li>5. Record Rate,</li><li>6. Confirm densi</li><li>7. 1" cement to s</li></ul>	Pressure, and tometer with pr surface if ceme of circulated to	essurized mud a nt is not circulat surface, run ten	scales ed. np. survey 10			ninmize	drillout.	
Notes:	5. Record Rate, 6. Confirm densi 7. 1" cement to s 8. If cement is no	Pressure, and tometer with pr surface if ceme of circulated to	essurized mud a nt is not circulat surface, run ten	scales ed. np. survey 10			ninmize	drillout.	
	5. Record Rate, 6. Confirm densi 7. 1" cement to s 8. If cement is no	Pressure, and tometer with pr surface if ceme of circulated to	essurized mud a nt is not circulat surface, run ten	scales ed. np. survey 10			ninmize	drillout.	
	5. Record Rate, 6. Confirm densi 7. 1* cement to s 8. If cement is no *Do not wash up	Pressure, and tometer with pr surface if ceme of circulated to	essurized mud nt is not circulat surface, run ten Wash lines bef	scales ed. np. survey 10 ore displacin	g production cen		ninmize	drillout.	
	5. Record Rate, 6. Confirm densi 7. 1" cement to s 8. If cement is no	Pressure, and tometer with pr surface if ceme of circulated to	essurized mud a nt is not circulat surface, run ten	scales ed. np. survey 10	g production cen		ninmize	drillout.	
	5. Record Rate, 6. Confirm densi 7. 1* cement to s 8. If cement is no *Do not wash up Preflush	Pressure, and tometer with pr surface if ceme ot circulated to on top of plug.	essurized mud nt is not circulat surface, run ten Wash lines bef	scales ed. np. survey 10  ore displacing	g production cen		ninmize		
	5. Record Rate, 6. Confirm densi 7. 1* cement to s 8. If cement is no *Do not wash up	Pressure, and tometer with pr surface if ceme ot circulated to on top of plug.	essurized mud nt is not circulat surface, run ten Wash lines bef	scales ed. np. survey 10  ore displacing	g production cen		ninmize	drillout. 99 cu	ft
	5. Record Rate, 6. Confirm densi 7. 1* cement to s 8. If cement is no *Do not wash up Preflush	Pressure, and tometer with pr surface if ceme ot circulated to on top of plug.	essurized mud nt is not circulat surface, run ten Wash lines bef	scales ed. np. survey 10  ore displacing  FreshWate	g production cen		ninmize		ft
	5. Record Rate, 6. Confirm densi 7. 1* cement to s 8. If cement is no *Do not wash up Preflush Slurry 1	Pressure, and tometer with pr surface if ceme ot circulated to on top of plug.	essurized mud nt is not circulat surface, run terr Wash lines bef 20 bbl. sx Class C Cen	scales ed. np. survey 10  ore displacing  FreshWate	g production cen		ninmize	99 cu	
	5. Record Rate, 6. Confirm densi 7. 1* cement to s 8. If cement is no *Do not wash up Preflush Slurry 1	Pressure, and tometer with pr surface if ceme ot circulated to on top of plug.	essurized mud nt is not circulat surface, run terr Wash lines bef 20 bbl. sx Class C Cen	scales ed. np. survey 10  ore displacing  FreshWate	g production cen		ninmize		
Surface:	5. Record Rate, 6. Confirm densi 7. 1* cement to s 8. If cement is no *Do not wash up Preflush Slurry 1	Pressure, and tometer with presurface if ceme of circulated to on top of plug.	essurized mud nt is not circulat surface, run terr Wash lines bef 20 bbl. sx Class C Cen	scales ed. ip. survey 10 ore displacing FreshWate ment ccelerator)	g production cen	nent job to r	ninmize	99 cu	
Surface:	5. Record Rate, 6. Confirm densi 7. 1* cement to s 8. If cement is no *Do not wash up Preflush Slurry 1	Pressure, and tometer with pr surface if ceme ot circulated to on top of plug.	essurized mud nt is not circulat surface, run terr Wash lines bef 20 bbl. sx Class C Cen	scales ed. np. survey 10  ore displacing  FreshWate	g production cen		ninmize	99 cu	
Surface:	5. Record Rate, 6. Confirm densi 7. 1* cement to s 8. If cement is no *Do not wash up Preflush Slurry 1	Pressure, and tometer with presurface if ceme of circulated to on top of plug.	essurized mud nt is not circulat surface, run terr Wash lines bef 20 bbl. sx Class C Cen	scales ed. ip. survey 10 ore displacing FreshWate ment ccelerator)	g production cen	nent job to r	ninmize	99 cu	
Surface:	5. Record Rate, 6. Confirm densi 7. 1* cement to s 8. If cement is no *Do not wash up  Preflush  Slurry 1  TOC@Surface	Pressure, and tometer with presurface if cemeent circulated to on top of plug.  80  Density (lb/gal)	essurized mud nt is not circulat surface, run terr Wash lines bef 20 bbl. sx Class C Cen	scales ed. ip. survey 10  ore displacin  FreshWate  nent ccelerator)  Yield (ft3/sk)	g production cen	nent job to r		99 cu	
Surface:	5. Record Rate, 6. Confirm densi 7. 1* cement to s 8. If cement is no *Do not wash up Preflush Slurry 1	Pressure, and tometer with presurface if cemeent circulated to on top of plug.  80  Density	essurized mud nt is not circulat surface, run terr Wash lines bef 20 bbl. sx Class C Cen	scales ed. ip. survey 10 ore displacin  FreshWate nent scelerator)	g production cen	nent job to r	ninmize	99 cu	
Surface: Slurry Properties:	5. Record Rate, 6. Confirm densi 7. 1* cement to s 8. If cement is no *Do not wash up  Preflush  Slurry 1  TOC @ Surface	Pressure, and tometer with presurace if cemest circulated to on top of plug.  80  Density (lb/gal)  15.2	essurized mud nt is not circulat surface, run tem Wash lines bef 20 bbl. sx Class C Cen + 2% CaCl2 (ad	scales ed. ip. survey 10  ore displacin  FreshWate  nent  ccelerator)  Yield  (ft3/sk)	g production cen	nent job to r		99 cu	
Surface: Slurry Properties:	5. Record Rate, 6. Confirm densi 7. 1* cement to s 8. If cement is no *Do not wash up  Preflush  Slurry 1  TOC @ Surface	Pressure, and tometer with presurace if cemest circulated to on top of plug.  80  Density (lb/gal) 15.2  8-5/8*, 8R, ST	essurized mud ant is not circulate surface, run terrior Wash lines before 20 bbl.  sx Class C Center + 2% CaCl2 (act	scales ed. ip. survey 10  ore displacin  FreshWate  nent  ccelerator)  Yield  (ft3/sk)	g production cen	nent job to r		99 cu	
Surface: Slurry Properties:	5. Record Rate, 6. Confirm densi 7. 1* cement to s 8. If cement is no *Do not wash up  Preflush  Slurry 1  TOC @ Surface	Pressure, and tometer with presurace if cemest circulated to on top of plug.  80  Density (lb/gal)  15.2	essurized mud ant is not circulate surface, run terrior Wash lines before 20 bbl.  sx Class C Center + 2% CaCl2 (act	scales ed. ip. survey 10  ore displacin  FreshWate  nent  ccelerator)  Yield  (ft3/sk)	g production cen	nent job to r		99 cu	
Surface: Slurry Properties:	5. Record Rate, 6. Confirm densi 7. 1* cement to s 8. If cement is no *Do not wash up  Preflush  Slurry 1  TOC @ Surface	Pressure, and tometer with presurace if ceme of circulated to on top of plug.  80  Density (lb/gal) 15.2  8-5/8*, 8R, ST 1 Guide Shoe	essurized mud ant is not circulate surface, run terrium. Wash lines bef 20 bbl.  sx Class C Cen + 2% CaCl2 (acc.)	scales ed. ip. survey 10  ore displacin  FreshWate  nent  ccelerator)  Yield  (ft3/sk)	g production cen	nent job to r		99 cu	
Surface: Slurry Properties:	5. Record Rate, 6. Confirm densi 7. 1* cement to s 8. If cement is no *Do not wash up  Preflush  Slurry 1  TOC @ Surface	Pressure, and tometer with presurace if ceme of circulated to on top of plug.  80  Density (lb/gal) 15.2  8-5/8*, 8R, ST 1 Guide Shoe 1 Top Woodel	essurized mud ant is not circulate surface, run terror Wash lines before 20 bbl.  sx Class C Center + 2% CaCl2 (action of the surface)	scales ed. ip. survey 10  ore displacin  FreshWate  nent  ccelerator)  Yield  (ft3/sk)	g production cen	nent job to r		99 cu	
Surface: Slurry Properties:	5. Record Rate, 6. Confirm densi 7. 1* cement to s 8. If cement is no *Do not wash up  Preflush  Slurry 1  TOC @ Surface	Pressure, and tometer with presurace if cemeent circulated to a on top of plug.  80  Density (lb/gal)  15.2  8-5/8*, 8R, ST 1 Guide Shoe 1 Top Woode 1 Autofill inser	essurized mud int is not circulat surface, run tem  Wash lines bef  20 bbl.  sx Class C Cen + 2% CaCl2 (ad	scales ed. ip. survey 10 ore displacing FreshWate ment scelerator)  Yield (ft3/sk) 1.27	g production cen	nent job to r		99 cu	
Notes:  Surface:  Slurry Properties:  Casing Equipment	5. Record Rate, 6. Confirm densi 7. 1* cement to s 8. If cement is no *Do not wash up  Preflush  Slurry 1  TOC @ Surface	Pressure, and tometer with presurace if cemeent circulated to a on top of plug.  80  Density (ib/gal)  15.2  8-5/8*, 8R, ST 1 Guide Shoe 1 Top Woode 1 Autofill inser Centralizers, 1	essurized mud ant is not circulate surface, run terror Wash lines before 20 bbl.  sx Class C Center + 2% CaCl2 (action of the surface)	scales ed. ip. survey 10 ore displacing FreshWate ment scelerator)  Yield (ft3/sk) 1.27	g production cen	nent job to r		99 cu	
Surface: Slurry Properties:	5. Record Rate, 6. Confirm densi 7. 1* cement to s 8. If cement is no *Do not wash up  Preflush  Slurry 1  TOC @ Surface	Pressure, and tometer with presurace if cemeent circulated to a on top of plug.  80  Density (lb/gal)  15.2  8-5/8*, 8R, ST 1 Guide Shoe 1 Top Woode 1 Autofill inser	essurized mud int is not circulat surface, run tem  Wash lines bef  20 bbl.  sx Class C Cen + 2% CaCl2 (ad	scales ed. ip. survey 10 ore displacing FreshWate ment scelerator)  Yield (ft3/sk) 1.27	g production cen	nent job to r		99 cu	
Surface: Slurry Properties:	5. Record Rate, 6. Confirm densi 7. 1* cement to s 8. If cement is no *Do not wash up  Preflush  Slurry 1  TOC @ Surface	Pressure, and tometer with presurace if cemeent circulated to a on top of plug.  80  Density (ib/gal)  15.2  8-5/8*, 8R, ST 1 Guide Shoe 1 Top Woode 1 Autofill inser Centralizers, 1	essurized mud int is not circulat surface, run terr  Wash lines bef 20 bbl.  sx Class C Cen + 2% CaCl2 (ad	scales ed. ip. survey 10 ore displacing FreshWate ment scelerator)  Yield (ft3/sk) 1.27	g production cen	nent job to r		99 cu	
Surface: Slurry Properties:	5. Record Rate, 6. Confirm densi 7. 1* cement to s 8. If cement is no *Do not wash up  Preflush  Slurry 1  TOC @ Surface	Pressure, and tometer with presurace if cemeent circulated to a on top of plug.  80  Density (ib/gal)  15.2  8-5/8*, 8R, ST I Guide Shoe 1 Top Woode 1 Autofill inser Centralizers, 1 Stop Ring	essurized mud int is not circulat surface, run terr  Wash lines bef 20 bbl.  sx Class C Cen + 2% CaCl2 (ad	scales ed. ip. survey 10 ore displacing FreshWate ment scelerator)  Yield (ft3/sk) 1.27	g production cen	nent job to r		99 cu	
Surface: Slurry Properties: Casing Equipment	5. Record Rate, 6. Confirm densi 7. 1* cement to s 8. If cement is no *Do not wash up  Preflush  Slurry 1  TOC @ Surface	Pressure, and tometer with presurace if cemeent circulated to a on top of plug.  80  Density (ib/gal)  15.2  8-5/8*, 8R, ST I Guide Shoe 1 Top Woode 1 Autofill inser Centralizers, 1 Stop Ring	essurized mud int is not circulat surface, run terr  Wash lines bef 20 bbl.  sx Class C Cen + 2% CaCl2 (ad	scales ed. ip. survey 10 ore displacing FreshWate ment scelerator)  Yield (ft3/sk) 1.27	g production cen	nent job to r		99 cu	
Surface: Slurry Properties: Casing Equipment	5. Record Rate, 6. Confirm densi 7. 1* cement to s 8. If cement is no *Do not wash up  Preflush  Slurry 1  TOC@ Surface	Pressure, and tometer with presurace if cemes of circulated to a on top of plug.  80  Density ( b/gal)  15.2  8-5/8*, 8R, ST 1 Guide Shoe 1 Top Woode 1 Autofill inser Centralizers, 1 1 Stop Ring 1 Thread Lock	essurized mud ant is not circulate surface, run territorial wash lines before 20 bbl.  sx Class C Center + 2% CaCl2 (action of the compound of	scales ed.  ip. survey 10  ore displacing  FreshWate  ment celerator)  Yield (ft3/sk) 1.27	g production cen	nent job to r		99 cu	
Surface: Slurry Properties: Casing Equipment	5. Record Rate, 6. Confirm densi 7. 1* cement to s 8. If cement is no *Do not wash up  Preflush  Slurry 1  TOC @ Surface	Pressure, and tometer with presurace if cemes of circulated to a on top of plug.  80  Density ( b/gal)  15.2  8-5/8*, 8R, ST 1 Guide Shoe 1 Top Woode 1 Autofill inser Centralizers, 1 1 Stop Ring 1 Thread Lock	essurized mud int is not circulat surface, run terr  Wash lines bef 20 bbl.  sx Class C Cen + 2% CaCl2 (ad	scales ed. ip. survey 10 ore displacing FreshWate ment scelerator)  Yield (ft3/sk) 1.27	g production cen	nent job to r		99 cu	
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Surface: Slurry Properties: Casing Equipment	5. Record Rate, 6. Confirm densi 7. 1* cement to s 8. If cement is no *Do not wash up  Preflush  Slurry 1  TOC@ Surface	Pressure, and tometer with presurace if cemes of circulated to a on top of plug.  80  Density ( b/gal)  15.2  8-5/8*, 8R, ST 1 Guide Shoe 1 Top Woode 1 Autofill inser Centralizers, 1 1 Stop Ring 1 Thread Lock	essurized mud ant is not circulat surface, run terr  Wash lines bef  20 bbl.  sx Class C Cen + 2% CaCl2 (ad  CaCl2 (ad  Tacla t float valve I per joint except	scales ed.  ip. survey 10  ore displacing  FreshWate  ment celerator)  Yield (ft3/sk) 1.27	g production cen	nent job to r		99 cu	
Surface: Slurry Properties: Casing Equipment	5. Record Rate, 6. Confirm densi 7. 1* cement to s 8. If cement is no *Do not wash up  Preflush  Slurry 1  TOC@ Surface	Pressure, and tometer with presurace if cemes of circulated to a on top of plug.  80  Density ( b/gal)  15.2  8-5/8*, 8R, ST 1 Guide Shoe 1 Top Woode 1 Autofill inser Centralizers, 1 1 Stop Ring 1 Thread Lock	essurized mud int is not circulat surface, run terr  Wash lines bef  20 bbl.  sx Class C Cen + 2% CaCl2 (ac)  **C  The compound compound  10 bbl	scales ed.  ip. survey 10  ore displacing  FreshWater  nent  scelerator)  Yield  (ft3/sk)  1.27	g production cen	nent job to r		99 cu	ft/ft OH
Surface: Slurry Properties: Casing Equipment	5. Record Rate, 6. Confirm densi 7. 1* cement to s 8. If cement is no *Do not wash up  Preflush  Slurry 1  TOC@Surface  Slurry 1	Pressure, and tometer with presurace if cemes of circulated to a on top of plug.  80  Density ( b/gal)  15.2  8-5/8*, 8R, ST 1 Guide Shoe 1 Top Woode 1 Autofill inser Centralizers, 1 1 Stop Ring 1 Thread Lock	essurized mud int is not circulat surface, run terr  Wash lines bef  20 bbl.  sx Class C Cen + 2% CaCl2 (ac)  **C  The compound compound  10 bbl	scales ed.  ip. survey 10  ore displacing  FreshWate  ment celerator)  Yield (ft3/sk) 1.27	g production cen	nent job to r		99 cu	ft/ft OH

## **Cementing Program**

TOC@Surface

+ 2% S1 Calcium Chloride

+1/4 #/sk. Cellophane Flake

+ 0.1% D46 antifoam'

Tail

Slurry 2

140 sx 50/50 Class "G"/Poz

+ 2% gel (extender) 0.1% D46 antifoam

+1/4 #/sk. Cellophane Flake

+ 2% CaCl2 (accelerator)

177 cuft

0.2526 cuft/ft OH 0.2009 cuft/ft csg ann

Slurry Properties:

Slurry 1

Slurry 2

Density (lb/gal) 11.4 13.5

500 ft fill

Yield (ft3/sk) 2.61 1.27

Water (gal/sk) 17.77 5.72

Casing Equipment:

5 1/2", 8R, ST&C

1 Float Shoe (autofill with minimal LCM in mud)
1 Float Collar (autofill with minimal LCM in mud)

1 Top Rubber Plug

1 Thread Lock Compound