rorm 3100-3 (August 1999)

UNITED STATES

OMB No. 1004-0136 Expires November 30, 2000

DEPARTMENT O BUREAU OF LAN		5. Lease Serial No. NMSF - 078655						
ADDI ICATION FOR DEDMI	APPLICATION FOR PERMIT TO DRILL OR REENTER							
APPLICATION FOR PERMI	IT TO DRILL OR REENTER	6. If Indian, Allottee or Tribe Na	ame					
1a. Type of Work: ☑ DRILL ☐ REENTER		7. If Unit or CA Agreement, Nar	me and No.					
/ 1b. Type of Well: ☐ Oil Well 🙀 Gas Well ☐	Other ☐ Single Zone ☐ Multiple Zone	8. Lease Name and Well No. DECKER LS 1M						
2. Name of Operator Conta	act: MARY CORLEY	9. API Well No.						
BP AMERICA PRODUCTION COMPANY	E-Mail: corleyml@bp.com	30045320	074					
3a. Address P.O. BOX 3092 HOUSTON, TX 77253	3b. Phone No. (include area code) Ph: 281.366.4491 Fx: 281.366.0700	10. Field and Pool, or Explorator BASIN DAKOTA/BLANC	ry					
4. Location of Well (Report location clearly and in account	ordance with any State requirements.*)	11. Sec., T., R., M., or Blk. and S	Survey or Area					
At surface NESW Lot K 2490FSL 1 At proposed prod. zone	1655FWL 36.59100 N Lat, 107.54500 W Lon	Sec 17 T32N R10W Mer	r NMP					
14. Distance in miles and direction from nearest town or portion of the property of the proper	ost office*	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)	16. No. of Acres in Lease	Spacing Unit dedicated to thi	is well					
985	315.14	315.14 WA						
 Distance from proposed location to nearest well, drillin completed, applied for, on this lease, ft. 	ng, 19. Proposed Depth	20. BLM/BIA Bond No. on file						
1200	7604 MD	WY2924						
21. Elevations (Show whether DF, KB, RT, GL, etc. 6128 GL	22. Approximate date work was start 2 () 2/25/2004	23. Estimated duration 7 DAYS	w					
	24. Attachments							
The following, completed in accordance with the requirement	nts of Onshore Oil and Gas Order No. 1, shall be attached to	o this form:						
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest SUPO shall be filed with the appropriate Forest Service 	System Lands, the 5. Operator certification 6. Such other site specific in	ons unless covered by an existing bo	,					
	authorized officer.		· · · · · ·					
25. Signature (Electronic Submission)	Name (Printed/Typed) MARY CORLEY	Da 1	ate 2/17/2003					
Title AUTHORIZED REPRESENTATIVE								
Approved by (Sjenoture)	Name (Printed/Typed)	Da	ate					
Title Title	Office		19-04					
AFL	(Cince FF)							
Application approval does not warrant or certify the applicant operations thereon. Conditions of approval, if any, are attached.	t holds legal or equitable title to those rights in the subject to	ease which would entitle the applican	nt to conduct					
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 121		o make to any department or agency	of the United					
States any false, fictitious or fraudulent statements or represer	ntations as to any matter within its jurisdiction.							
Additional Operator Remarks (see next page)								

Electronic Submission #26234 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 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

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

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



District I PO Box 1980, Hobbs NM 88241-1980 District II PO Drawer KK, Artesia, NM 87211-0719

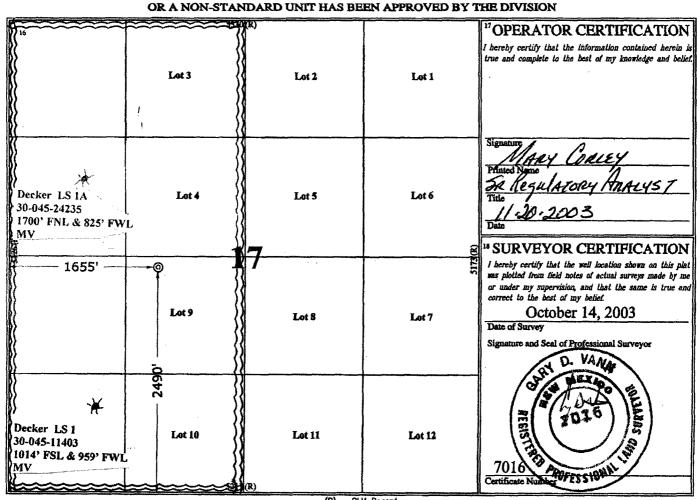
State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised February 21, 1994 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

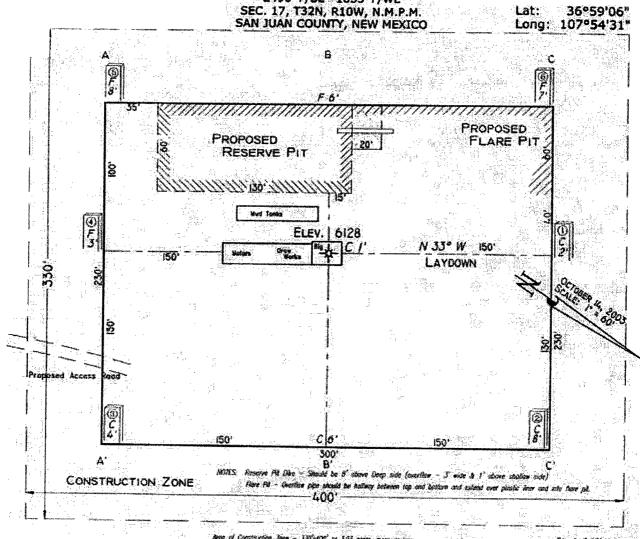
District III 1000 Rio Brazos Rd., Azzec, NM 87410 District IV PO Box 2088, Santa Fe, NM 87504-2088 OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

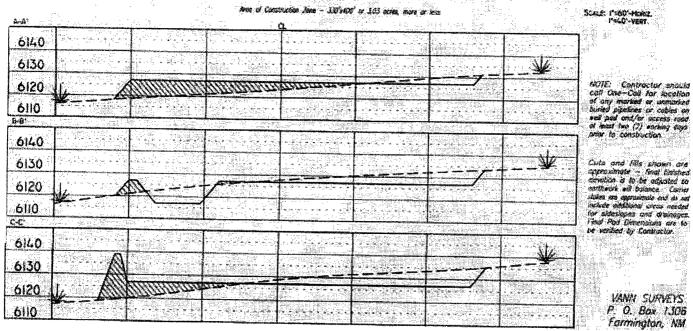
AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT												
API Number 3 Pool Code						¹ Pool Name						
30-045-32074 71599 ? 72319 BASIN DAKOTA ? BLA									VANCO MESAVERDE			
Property Code Property Name									Well Number			
00042	7	Γ	ecker	LS			# 12					
1 OGRID 1	io.				² Operator	Name		•	⁵ Elevation			
QOODOBBP AMERICA PRODUCTION COMPANY6128							6128					
					¹⁰ Surface L	ocation		,				
UL or Lot No.	Section	Township	Range	Lot Idn	Foot from the	North/South line	Feet from	n the Bast/West	line County			
K (Lot 9)	17	32 N	10 W		2490	SOUTH	165	55 WE	EST SAN JUAN			
	" Bottom Hole Location If Different From Surface											
1 UL or lot no.	Section	on Township R		Lot Ida	Feet from the	North/South line	Poet from	the East/Wes	st line County			
Dedicated Acres	i) Join	t or Infill 14	Consolidatio	a Code 13	Order No.							
315, 14												
NO ALLOV	VABLE	WILL BE	ASSIGN	ED TO TH	IS COMPLETION	ON UNTIL ALL I	NTERES	TS HAVE BE	EN CONSOLIDATED			
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION												
16		~~~	**************************************	"OPERATOR CERTIFICATION								



PAD LAYOUT PLAN & PROFILE BP AMERICA PRODUCTION COMPANY Decker LS # 1814 2490' F/SL 1655' F/WL





Additional Operator Remarks:

Notice of Staking was submitted on 11/16/2003, as the Decker LS 1B. Please note change in well number from 1B to 1M.

BP America Production Company respectfully request permission to drill the subject well to a total depth of approximately 7604', complete in the Basin Dakota Pool, produce the well to establish a production rate, perform a deliverability test, isolate the Dakota then completed into the Blanco Mesaverde Pool and commingle production Downhole.

BP is currently using 3% CaCl2 in our slurry and achieves 300 psi compressive strength after 1 hr 50 min and 500 psi after 3 hrs 8 min. We; therefore, request approval to initiate blowout preventer (BOP) nipple up operations after a 2 hour wait on cement time in lieu of the 6 hour time frame required by rule to achieve 300 psi compressive strength with Class B cement slurry at 80 deg F.

"" See BLM. General Requirements

Application for Downhole commingling authority (NMOCD order R-11363) will be submitted to all appropriate for approval after Permit to Drill has been approved.

SUPPLEMENTAL TO SURFACE USE PLAN

New facilities:

A 4 diameter buried steel pipeline that is + or 1200 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 well 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 to El Paso Field Services, refer to the attached survey plat.

BP AMERICA PRODUCTION COMPANY DRILLING AND COMPLETION PROGRAM

Prospect Name: Decker LS
Lease: Decker
County: San Juan
State: New Mexico

Well No: 1 M

Surface Location: 17-32N-10W; 2490 FSL, 1655 FWL

Field: Blanco Mesaverde

Date: November 18, 2003

						I, MF and PL in	tor vars		
METH!	OD OF DRILLING		APPROXIM	APPROXIMATE DEPTHS OF GEOLOGICAL MARKER					
TYPE OF TOOLS	DEPTH OF	DRILLING	Estimated	d GL: 612	8 Est				
Rotary	0 - TD		MARKER	₹	SUBSI	EA	TVD		
	G PROGRAM		Ojo Alamo		4832	4832 1			
TYPE	DEPTH INVE	Kirtland		4782	2	1360			
OPEN HOLE			Fruitland	Fruitland		3891			
None		Fruitland Coa	al	3624		2518			
	Pictured Cliffs		3231		2911				
		Lewis	*	3048		3094			
CASED HOLE			Cliff House	#			4448		
GR-CCL-TDT	TDT – TD to		Menefee	, #	1286		4856		
CBL	Identify 4 1/2"	cement top	Point Lookou	t #	961 603		5181 5540		
		Mancos Greenhorn	Į.	-1147		7289			
REMARKS:			Graneros	-	-1203		7345		
- Please report any flares (m	nagnitude & duration)		Two Wells	#	-1272		7345 7414		
1 loade report any naies (in	agratudo a duration)	•	Paguate	#	-1324		7466		
			Upper Cuber		-1347		7489		
			Lower Cubero		-1370		7512		
			Encinal Cany		-1403		7545		
		,	TOTAL DEPT	гн 📗	-1462		7604		
			# Probable co	ompletion int	erval * i	Possible Pay			
SP	ECIAL TESTS		DRILL CUT	TING SAM	//PLES	DRILLING	TIME		
TYPE			FREQUENC			EQUENCY	DEPTH		
None			10'	3194-T	D Geo	olograph	0-TD		
REMARKS:									
			ļ						
MUD PROGRAM:									
Approx. Interval	Type Mud	Weight,	Vis, sec/qt	W/L cc	's/30 min	Other Spec	ification		
0 - 120	Spud	#/gal 8.6-9.2			L				
	LOURT								
120 2104 /				-6					
	(1) Water/LSN	ND 8.6-9.2	aufficient te meir	<6	lo and alaga	wellbore			
3194 - 7604		ND 8.6-9.2	sufficient to mair	-	ole and clean	wellbore			
3194 - 7604 REMARKS:	(1) Water/LSN Gas/Air/N2	ND 8.6-9.2 2/Mist Volume		ntain a stat	·				
3194 - 7604	(1) Water/LSN Gas/Air/N2	ND 8.6-9.2 2/Mist Volume		ntain a stat	·				
REMARKS: (1) The hole will require sv	(1) Water/LSN Gas/Air/N2 weeps to keep unlo	ND 8.6-9.2 2/Mist Volume paded while fresh	water drilling. L	ntain a stab	nditions dictate	e frequency.			
3194 - 7604 REMARKS: (1) The hole will require sv CASING PROGRAM: (No	(1) Water/LSN Gas/Air/N2 weeps to keep unlo	ND 8.6-9.2 2/Mist Volume paded while fresh	water drilling. L	ntain a stab	nditions dictate	e frequency.			
3194 - 7604 REMARKS: (1) The hole will require sv CASING PROGRAM: (No	(1) Water/LSN Gas/Air/N2 weeps to keep unlo ormally, tubular goods a Estimated Depth	ND 8.6-9.2 2/Mist Volume paded while fresh llocation letter specific Casing Size	water drilling. Les casing sizes to be	et hole cor used. Hole s Weight	nditions dictate sizes will be gove	e frequency. erned by Contra Landing P	nct)		
3194 - 7604 REMARKS: (1) The hole will require sw CASING PROGRAM: (No Casing String E	(1) Water/LSN Gas/Air/N2 weeps to keep unlo ormally, tubular goods a Estimated Depth	ND 8.6-9.2 2/Mist Volume paded while fresh	water drilling. Les casing sizes to be Grade H-40 ST&C	et hole cor used. Hole: Weight	nditions dictatesizes will be gove Hole Size 13 542:25"	e frequency. erned by Contra Landing P 1	nct)		
3194 - 7604 REMARKS: (1) The hole will require sw CASING PROGRAM: (No Casing String Surface/Conductor Intermediate 1	(1) Water/LSN Gas/Air/N2 weeps to keep unloomally, tubular goods a Estimated Depth 120 3194	ND 8.6-9.2 2/Mist Volume paded while fresh location letter specific Casing Size 9 5/8" 7"	water drilling. Les casing sizes to be Grade H-40 ST&C J/K-55 ST&C	et hole cor used. Hole s Weight	nditions dictatesizes will be gove Hole Size 13 542.25" 8.75"	e frequency. erned by Contra Landing P 1 1,2	nct)		
3194 - 7604 REMARKS: (1) The hole will require sw CASING PROGRAM: (No Casing String Surface/Conductor Intermediate 1 Production	(1) Water/LSN Gas/Air/N2 weeps to keep unlo ormally, tubular goods a Estimated Depth	ND 8.6-9.2 2/Mist Volume paded while fresh location letter specific Casing Size 9 5/8"	water drilling. Les casing sizes to be Grade H-40 ST&C	et hole cor used. Hole s Weight 32# 20#	nditions dictatesizes will be gove Hole Size 13 542:25"	e frequency. erned by Contra Landing P 1	nct)		
3194 - 7604 REMARKS: (1) The hole will require sw CASING PROGRAM: (No Casing String Surface/Conductor Intermediate 1 Production REMARKS:	Water/LSN Gas/Air/NZ weeps to keep unlo ormally, tubular goods at Estimated Depth 120 3194 7604	ND 8.6-9.2 2/Mist Volume paded while fresh location letter specific Casing Size 9 5/8" 7"	water drilling. Les casing sizes to be Grade H-40 ST&C J/K-55 ST&C	et hole cor used. Hole s Weight 32# 20#	nditions dictatesizes will be gove Hole Size 13 542.25" 8.75"	e frequency. erned by Contra Landing P 1 1,2	nct)		
3194 - 7604 REMARKS: (1) The hole will require sw CASING PROGRAM: (No Casing String Surface/Conductor Intermediate 1 Production REMARKS: (1) Circulate Cement to Su	(1) Water/LSN Gas/Air/N2 weeps to keep unload septimated Depth 120 3194 7604	ND 8.6-9.2 2/Mist Volume paded while fresh location letter specific Casing Size 9 5/8" 7" 4 1/2"	water drilling. Les casing sizes to be Grade H-40 ST&C J/K-55 ST&C	et hole cor used. Hole s Weight 32# 20#	nditions dictatesizes will be gove Hole Size 13 542.25" 8.75"	e frequency. erned by Contra Landing P 1 1,2	nct)		
3194 - 7604 REMARKS: (1) The hole will require sw CASING PROGRAM: (No Casing String Expressed Conductor Intermediate 1 Production REMARKS: (1) Circulate Cement to Su (2) Set casing 100' below to the second content of the second content to Su (2) Set casing 100' below to the second content to Su (3) Set casing 100' below to the second content to Su (4) Set casing 100' below to the second content to Su (5) Set casing 100' below to the second content to Su (6) Set casing 100' below to the second content to Su (7) Set casing 100' below to the second content to Su (8) Set casing 100' below to the second content to Su (9) Set casing 100' below to the second content to Su (10) Set casing 100' below to the second content to Su (11) Set casing 100' below to the second content to Su (12) Set casing 100' below to the second content to Su (13) Set casing 100' below to the second content to Su (14) Set casing 100' below to the second content to Su (15) Set casing 100' below to the second content to Su (16) Set casing 100' below to the second content to Su (17) Set casing 100' below to the second content to Su (18) Set casing 100' below to the second content to Su (18) Set casing 100' below to the second content to Su (18) Set casing 100' below to the second content to Su (18) Set casing 100' below to the second content to Su (18) Set casing 100' below to the second content to Su (18) Set casing 100' below to the second content to Su (18) Set casing 100' below to the second content to Su (18) Set casing 100' below to the second content to Su (18) Set casing 100' below to the second content to Su (18) Set casing 100' below to the second content to Su (18) Set casing 100' below to the second content to Su (18) Set casing 100' below to the second content to Su (18) Set casing 100' below to the second content to Su (18) Set casing 100' below to the second content to Su (18) Set casing 100' below to the second content to Su (18) Set casing 100' below to the second content to the second content to the second content to the seco	Water/LSN Gas/Air/NZ weeps to keep unloomally, tubular goods at Estimated Depth 120 3194 7604 urface top of Lewis Shale	ND 8.6-9.2 2/Mist Volume paded while fresh location letter specific Casing Size 9 5/8" 7" 4 1/2"	water drilling. Les casing sizes to be Grade H-40 ST&C J/K-55 ST&C	et hole cor used. Hole s Weight 32# 20#	nditions dictatesizes will be gove Hole Size 13 542.25" 8.75"	e frequency. erned by Contra Landing P 1 1,2	nct)		
3194 - 7604 REMARKS: (1) The hole will require sw CASING PROGRAM: (No Casing String E Surface/Conductor Intermediate 1 Production REMARKS: (1) Circulate Cement to Su (2) Set casing 100' below (3) Bring cement 100' about 100' a	Water/LSN Gas/Air/NZ weeps to keep unlo mally, tubular goods at Estimated Depth 120 3194 7604 urface top of Lewis Shale	ND 8.6-9.2 2/Mist Volume paded while fresh location letter specific Casing Size 9 5/8" 7" 4 1/2"	water drilling. Les casing sizes to be Grade H-40 ST&C J/K-55 ST&C	et hole cor used. Hole s Weight 32# 20#	nditions dictatesizes will be gove Hole Size 13 542.25" 8.75"	e frequency. erned by Contra Landing P 1 1,2	nct)		
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3194 - 7604 REMARKS: (1) The hole will require sw CASING PROGRAM: (No Casing String English Productor Intermediate 1 Production REMARKS: (1) Circulate Cement to Su (2) Set casing 100' below (3) Bring cement 100' abort (4) 100' Overlap CORING PROGRAM:	Water/LSN Gas/Air/NZ weeps to keep unlo mally, tubular goods at Estimated Depth 120 3194 7604 urface top of Lewis Shale	ND 8.6-9.2 2/Mist Volume paded while fresh location letter specific Casing Size 9 5/8" 7" 4 1/2"	water drilling. Les casing sizes to be Grade H-40 ST&C J/K-55 ST&C	et hole cor used. Hole s Weight 32# 20#	nditions dictatesizes will be gove Hole Size 13 542.25" 8.75"	e frequency. erned by Contra Landing P 1 1,2	nct)		
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3194 - 7604 REMARKS: (1) The hole will require swarf of the hole will require swarf the hole will require swarf to be a considered with the hole will require swarf the hole will require swarf the hole will require the h	Water/LSN Gas/Air/N2 weeps to keep unloo mally, tubular goods a Estimated Depth 120 3194 7604 urface top of Lewis Shale ve 7" shoe M: I Entry Hydraulic Foours prior to Spud,	ND 8.6-9.2 2/Mist Volume raded while fresh Rocation letter specific Casing Size 9 5/8" 7" 4 1/2"	water drilling. Les casing sizes to be Grade H-40 ST&C J/K-55 ST&C J-55 Casing and Cerging program re DATE: Noveml	menting. wied by:	nditions dictate sizes will be gove Hole Size 13 542.25" 8.75" 6.25"	e frequency. erned by Contra Landing P 1 1,2	nct)		
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BP America Production Company BOP Pressure Testing Requirements

Well Name: Decker LS

County: San Juan

State: **New Mexico**

Formation	Estimated TVD/MD	Anticipated Bottom Hole Pressure	Maximum Anticipated Surface Pressure **
Ojo Alamo	1310		
Fruitland Coal	2518		
PC	2911		
Lewis Shale	3094		1
Cliff House	4448	500	0
Menefee Shale	4856		
Point Lookout	5181	600	0
Mancos	5540		
Dakota	7414	2400	

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

Requested BOP Pressure Test Exception: 4750 psi

1500 pm

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 rigs 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

9", 11" nominal or 7 1/16",3000 psi double ram preventer with rotating

All ram type preventers and related control equipment will be hydraulically tested to 250 psi (low pressure) and 7500 psi (high pressure), upon installation, following any repairs or equipment replacements, or at 30 day intervals. Accessories to BOP equipment will include kelly cock with a handle available, floor safety valves and choke manifold which will also be tested to equivalent pressure.

FEDERAL CEMENTING REQUIREMENTS

- 1. 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 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 is currently using 3% CaCl2 in our slurry and achieves 300 psi compressive strength after 1 hr 50 min and 500 psi after 3 hrs 8 min. We, therefore, request approval to initiate blowout preventer (BOP) nipple up operations after a 2 hour wait on cement time in lieu of the 6 hour time frame required by rule to achieve 300 psi compressive strength with Class B cement slurry at 80 deg F.

See BLM General Requirements

Cementing Program

Well Name:	Decker LS 1M				Field:		Blanco Me	save	rde / Basin Da	kota	
Location:	17-32N-10W, 24	190 FSL. 1655	FWL		API No.						
County:	San Juan				Well Flac						
State:	New Mexico							save	rde/Basin Dak	ota	
					KB Elev (e	est)		6142			
					GL Elev. ((est)		6128			
						<u></u>					
Casing Program: Casing String	: Est. Depth	Hole Size	Casing Size	Thread	тос		Stage Too	d	Cmt Cir. Out		
Casing Citing	(ft.)	(in.)	(in.)	Tilload	(ft.)		Or TOL (ft		(bbl.)		
Surface	120	13.5	9.625	ST&C	Surface		NA	••,	(22)		
Intermediate	3194	8.75	7	LT&C	Surface		NA				
Production -	7604	6.25	4.5	ST&C	3094		NA				
Casing Propertie	s:	(No Safety F	actor Included)	·							
Casing String	Size	Weight	Grade	Burst	Collapse		Joint St.		Capacity	Drift	
	(in.)	(lb/ft)		(psi.)	(psi.)		(1000 lbs.))	(bbl/ft.)	(in.)	
Surface	9.62		2 H-40	2270		1400		254			8.845
Intermediate) K-55	3740		2270		234			6.456
Production -	4.8	5 11.6	3 J-55	5350		4960		154	0.0155		3.875
Mud Program								_			
Apx. Interval	Mud Type	Mud Weight		Recomme	ended Mud	Proper	ies Prio Ce	ment	ting:		
(ft.)		•		PV	<20				_ _		
				ΥP	<10						
0 - SCP	Water/Spud	8.6-9.2	2	Fluid Loss	<15						
SCP - ICP	Water/LSND	8.6-9.2	2								
ICP - ICP2	Gas/Air Mist	N.A	-								
ICP2 - TD	LSND	8.6 - 9.2	<u> </u>					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Cementing Progra	m:		_								
			Surface		Intermed	diate			Production		
Excess %, Lead			100		75				40		
Excess %, Tail			NA		0				40		
BHST (est deg. F)			75		120				183		
Special Instruction		and line	1,6,7		1,6,8	В			2,4,6		
	1. Do not wash p	•	s.								
	Wash pumps Reverse out	and mies.									
	4. Run Blend Te	et on Coment									
	5. Record Rate,		Donaity on 3 5"	dick							
	6. Confirm densi		•								
	7. 1" cement to s	•									
	8. If cement is no				-12 hr. afte	r landin	a plua.				
Notes:						_					
	*Do not wash up	on top of plug.	. Wash lines bet	fore displacin	g productio	n ceme	nt job to m	inmize	e drillout.		
Surface:									· · · · · · · · · · · · · · · · · · ·		
	Preflush		20 bbl.	FreshWat	er						
	Slurry 1	110	sx Class G Ce	ment					117	cuft	
	TOC@Surface		+ 3% CaCl2 (a	iccelerator)							
			0.25 #/sk Cello	phane Flake	(lost circula	ation ac	lditive)		0.4887	cuft/ft	ЭН
			0.1% D46 antif	foam							
Slurry Properties:		Density		Yield			Water				
		(lb/gal)		(ft3/sk)			(gal/sk)				
	Slurry 1	15.8		1.16				4.95			
O		0.5/01.05.0									
Casing Equipment	•	9-5/8", 8R, S									
		1 Guide Shoe									
		1 Top Woode									
		1 Autofill inse									
			1 per joint excer	pt top joint							
		1 Stop Ring									
		1 Thread Loc	k Compound								
				التوس		_					
Intermediate:	Fresh Mist		00 511	£	_						
	Fresh Water		20 bbl	fresh wate	r						

Schlumberger Private Page 1

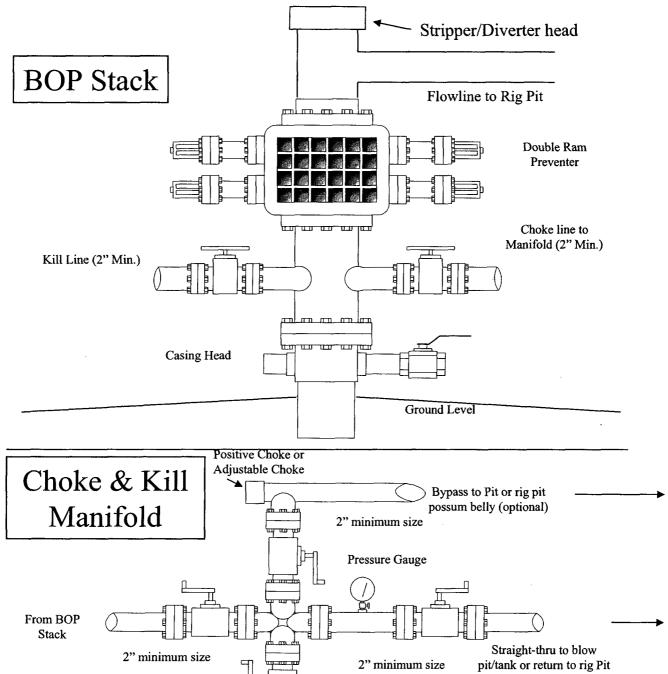
Cementing Program

Lead 270 sx Class "G" Cement 698 cuft Slurry 1 + 3% D79 extender TOC@Surface + 2% S1 Calcium Chloride +1/4 #/sk. Cellophane Flake + 0.1% D46 antifoam' Tail 60 sx 50/50 Class "G"/Poz 75 cuft Sturry 2 + 2% gel (extender) 0.1% D46 antifoam 0.1503 cuft/ft OH 500 ft fill +1/4 #/sk. Cellophane Flake 0.1746 cuft/ft csg ann + 2% CaCl2 (accelerator) Slurry Properties: Yield Water Density (lb/gal) (ft3/sk) (gal/sk) 17.77 2.61 Slurry 1 11.4 5.72 Slurry 2 13.5 1.27 Casing Equipment: 7", 8R, ST&C 1 Float Shoe (autofill with minimal LCM in mud) 1 Float Collar (autofill with minimal LCM in mud) 1 Stop Ring 14 Centralizers (one in middle of first joint, then every third collar) 2 Fluidmaster vane centalizers @ base of Ojo 1 Top Rubber Plug 1 Thread Lock Compound Production: Fresh Water 10 bbl CW100 170 LiteCrete D961 / D124 / D154 409 cuft Lead Slurry 1 + 0.03 gps D47 antifoam + 0.5% D112 fluid loss TOC, 100' above 7" shoe + 0.11% D65 TIC 160 sx 50/50 Class "G"/Poz Tail 225 cuft Sturry 2 + 5% D20 gel (extender) + 5 #/sk D24 gilsonite + 0.15% D65 TIC 1564 ft fill + 0.1% D46 antifoam + 0.1% D800 retarder + 1/4 #/sk. Cellophane Flake + 0.25% D167 Fluid Loss 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 6.5 Top of Mancos 13 1.44 5540 4-1/2", 8R, ST&C Casing Equipment: 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

BP American Production Company Well Control Equipment Schematic





Adjustable Choke

Working Pressure for all equipment

is 2,000 psi or greater

2" minimum size

To Blow Tank or burn Pit