UNITED STATES OMB No. 1004-0136 DEPARTMENT OF THE INTERIOR Expires November 30, 2000 **BUREAU OF LAND MANGEMENT** APPLICATION OFOR PERMIT TO DRIEATOR REPORTER 6 8 42 Lease Serial No MISEES - 078096 If Indian, Allottee or tribe Name RECEIVED If Unit or CA Agreement, Name and No REENTER FARMINGTON 111 DRILL la. Type of Work: Lease Name and Well No. Single Zone Multiple Zone Type of Well: Oil Well Gas Gas Well Gas Other Mudge C 1M API Well No Name of Operator BP AMERICA PRODUCTION COMPANY 10. Field and Pool, or Exploratory 3b. Phone No. (include area code) 3a. Address **B.O. BOX 3092 HOUSTON, TX 77079-2064** 281-366-4081 Basin Dakota & Blanco Mesaverde Loction of Well (Report location clearly and in accordance with any State requirements.*) 11. Sec., T., R., M., or Blk, and survey or Area SECTION 9 T31N & R11W At surface 2250' FSL & 885' FWL **NWSW** At proposed prod. Zone Same as Above 12. County or Parish 13. State 14. Distance in miles and direction from nearest town or post office* **NEW MEXICO** 8.9 MILES NORTH FROM AZTEC, NM SAN JUAN Distance from proposed* No. of Acres in lease Spacing Unit dedicated to this well Location to nearest 320 Property or lease line, ft. (Also to nearest drig. Ujnit line, if any) 885' Distance from proposed location* 19. Proposed Depth 20. BLM/BIA Bond No. on file to nearest well, drilling, completed, 7421' WY2924 applied for, on this lease, ft. Elevations (show whether DF, KDB., RT, GL, etc. 22. Approximate date work will start* 23. Estimated duration 6102' GL 11/25/05 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: Bond to cover the operations unless covered by an existing bond on file (see Item Well plat certified by a registered surveyor. 20 above). Operator certification. A Surface Use Plan (if the location is on National forest System Lands, the Such other site specific information and/or plans as may be required by the SUPO shall be filed with the appropriate Forest Service Office). suthorized officer. 25. Name (Printed/typed) Date Cherry Hlava 09/12/2005 Regulatory Anal Approved by Name (Printed/Typed) Title Office Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct Operations thereon. Conditions of approval, if any, are attached.

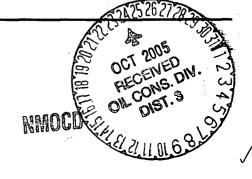
*(Instructions on reverse)

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

any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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

Title 18 U.S.C. Section 1001 and title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States



FORM APPROVED

District I
PO Box 1980, Hobbs NM 88241-1980

District II PO Drawer KK, Artesia, NM 87211-0719

District III 1000 Rio Brazos Rd., Aztec, NM 87410

District IV

PO Box 2088, Santa Fe, NM 87504-2088

320

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088 Form C-102 Revised February 21, 1994 Instructions on back Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

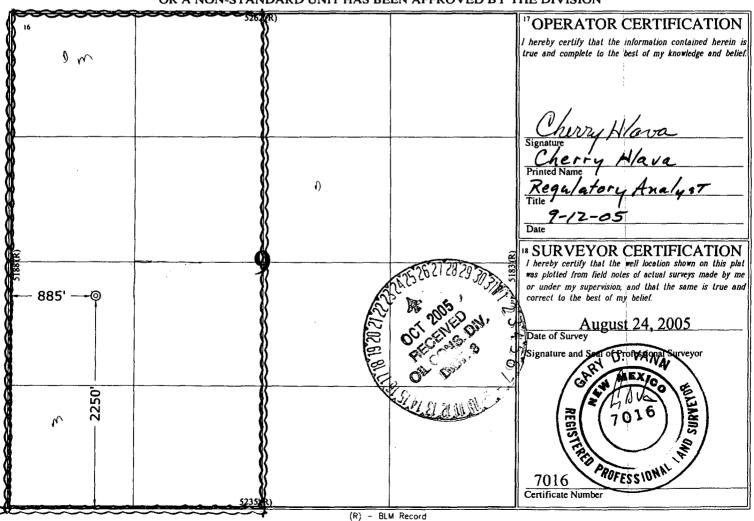
WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number		Pool C	Code		Pool Name	
30-045-33	342	71599:7	2319	Basin Dakota	, Blancol	nesaverde
Property Code		· · · · · · · · · · · · · · · · · · ·	5	Property Name		Well Number
000907	M	udge C	# 1M			
OGRID No.			1	Operator Name		9 Elevation
000778	BP	AMERICA	PROD	UCTION COMPANY		6102

Surface Location

UL or Lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County		
· L	9	31 N	11 W		2250	SOUTH	885	WEST	SAN JUAN		
	"Bottom Hole Location If Different From Surface										
7 UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County		
12 Dedicated Acre	Dedicated Acres 13 Joint or Infill 14 Consolidation Code 15 Order No.										

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

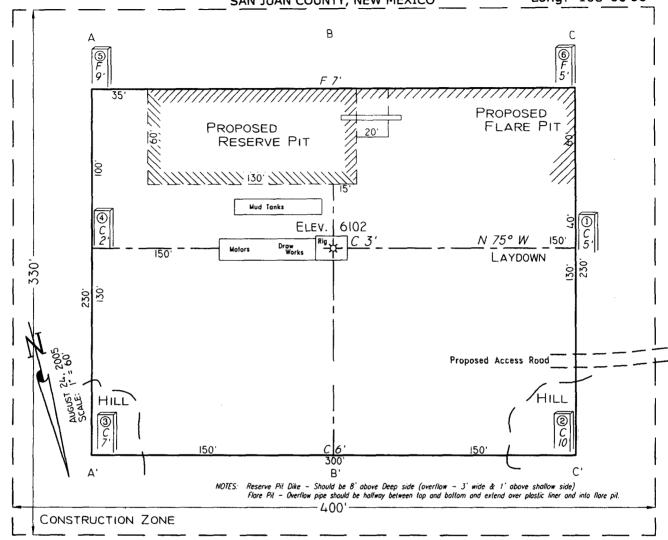


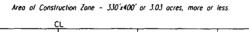
PAD LAYOUT PLAN & PROFILE BP AMERICA PRODUCTION COMPANY

Mudge C#1M 2250' F/SL 885' F/WL SEC. 9, T31N, R11W, N.M.P.M. SAN JUAN COUNTY, NEW MEXICO

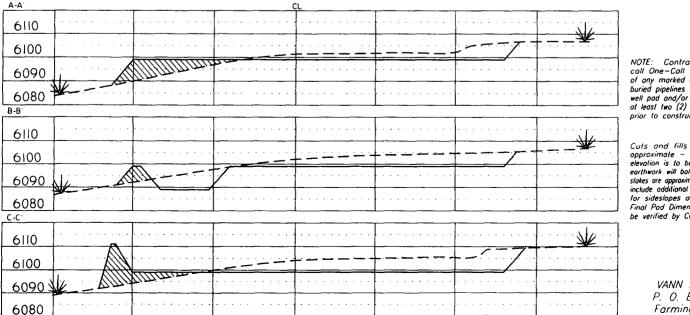
36.9119° Lat: 108.0017° Long:

36°54'43" Lat: Long: 108°00'06"





SCALE: I"=60"-HORIZ.



NOTE: Contractor should call One-Call for location of any marked or unmarked buried pipelines or cables on well pad and/or occess road at 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 slakes are approximate and do not include additional areas needed for sidestones and drainages. be verified by Contractor.

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

• :			DD AMED	ICA PRO	DUCTION	CON	IDA	NV			
				IG AND CO							
<u> </u>			DRILLIN		5/2005	FROGI		<u> </u>			
Lease:	Mudge C		Well Nan	ne & No. Mudg				Field: B	lanco Mesa	verde/B	Basin Dakota
County:	·	uan, New Mexico Surface Location: 9-31				FSL. 885	FWI				
Minerals:	 			Surface: Lat: 3							
Rig:	Aztec 184		BH L	ocation: same		,, <u>.</u>					
	Drill 250' be	low the top of the	Two Wells Mbr	, set 4-1/2" proc	luction casing,	Stimulate	DK, N	IF, and PL ir	itervals.		
		THOD OF DRIL						DEPTHS OF		CAL MA	RKER
TYPE	OF TOOLS	T	DEPTH OF DE	RILLING	Actual C	3L: 610	02		Estimated K	(B: 6,11	16.0'
	Rotary		0 - TD		Marker			SUBSEA	1	ΓVD	APPROX. MD
		LOG PROGRA	М		Ojo Alamo			5,080'	1	,036'	1,036'
Туре			Depth Interval		Kirtland			5,033'	1.	,083'	1,083'
Single F	Run				Fruitland		•	4,019	2	,097՝	2,097
					Fruitland Coal		*	3,639'	2	,477'	2,477'
					Pictured Cliffs		•	3,356'	2	,760'	2,760'
					Lewis			3,147'		,969'	2,969'
Cased H		_	_		Cliff House		#	1,910'		,206'	4,206'
RST- C	BL		TD to 7" shoe		Menefee		#	1,574'		,542'	4,542'
		<u>Ident</u>	fy 4 1/2" cement	top	Point Lookout		#	1,148'		,968'	4,968'
REMARKS:		 			Mancos			809'		,307'	5,307'
In this area the	Cliffhouse m	ember of the Mes	sa Verde can be	wet.	Greenhorn			-945'		,061'	7,061'
					Graneros (ber	it,mkr)		-999'		,115'	7,115'
					Two Wells Paguate		#	-1,055'		,171'	7,171'
							#	-1,145' -1,170'		,261' ,286'	7,261' 7,286'
The recommen	dod TD is inte	ended to penetra	to the unnermed	+ BDCN (10')	Cubero . L. Cubero		#	-1,170		,307'	7,307'
		be produced. O					#	-1,191		,343'	7,343'
		the BRCN. See			Endinal Cyri		"	-1,6-6-1	 -	,040	7,040
onocamoroa no	7 110101 11011 11	Tulo Briori. Occ	diadriod cross		TOTAL DE	PTH:		-1,305'	7	,421'	7,421'
					# Probable co		interv:			Possibl	
SPECIAL TEST	TS.					CUTTING					IG TIME
TYPE					FREQUE			EPTH	FREQU		DEPTH
None					30'/10' into		3,069' to TD Geolograph			0 - TD	
REMARKS:		·		·			-			, , ,	
					ļ						
MUD PROGRA	M:							<u></u>	·		
	TypeMud	l #/gal	Vis	s, sec/qt	/30 min			Othe	r Specifica	tion	
Interval	1 sypemius	ı ı mıgai									
Interval 200'	Spud	8.8 - 9.0		nt to clean hole.							
		8.8 - 9.0	Sufficier	nt to clean hole.	<9	S	weep	hole while w	hilst water		LCM onsite
200'	Spud	8.8 - 9.0	Sufficier	nt to clean hole.	<9					drilling, l	LCM onsite clean wellbore
200' 3,069' 7,421'	Spud Water/LSN Air	8.8 - 9.0 ND 8.4 - 9.0	Sufficier		<9					drilling, l	
200' 3,069'	Spud Water/LSN Air SRAM:	8.8 - 9.0 ND 8.4 - 9.0	Sufficier		<9 Grade, Three	Volur			intain a sta	drilling, l	
200' 3,069' 7,421' CASING PROG	Spud Water/LSN Air GRAM: tring	8.8 - 9.0 ND 8.4 - 9.0	Sufficier 1000 ct	fm for hammer		Volur	ne su	fficient to ma	intain a sta	drilling, I ble and	clean wellbore
200' 3,069' 7,421' CASING PROG CasingSt	Spud Water/LSN Air GRAM: tring	8.8 - 9.0 ND 8.4 - 9.0 1	Sufficier 1000 ct	fm for hammer Casing Size	Grade, Thre	Volur	ne su	fficient to ma	Point	drilling, I ble and c	clean wellbore Cement
200' 3,069' 7,421' CASING PROC CasingSt Surface/Condu	Spud Water/LSN Air GRAM: tring	8.8 - 9.0 1D 8.4 - 9.0 1 Depth 200'	Sufficier 1000 ct Size 13 1/2"	fm for hammer Casing Size 9-5/8"	Grade, Thre	volur ad Wei C 32 kC 20	ne su Ight 2#	fficient to ma	Point V LWIS	drilling, I ble and c c c	Cement mt to surface mt to surface side Intermediate -
200' 3,069' 7,421' CASING PROC CasingSt Surface/Conduction	Spud Water/LSN Air GRAM: tring ctor	8.8 - 9.0 10 8.4 - 9.0 1 Depth 200' 3,069'	Sufficier 1000 cf Size 13 1/2" 8-3/4"	Casing Size 9-5/8"	Grade, Three	volur ad Wei C 32 kC 20	ight 2#	Landing	Point V LWIS	drilling, I ble and c c c	Cement mt to surface mt to surface
200' 3,069' 7,421' CASING PROC CasingSt Surface/Conduc Intermediate 1 Production CORING PROC	Spud Water/LSN Air GRAM: tring ctor	8.8 - 9.0 10 8.4 - 9.0 1 Depth 200' 3,069'	Sufficier 1000 cf Size 13 1/2" 8-3/4"	Casing Size 9-5/8"	Grade, Three	volur ad Wei C 32 kC 20	ight 2#	Landing	Point V LWIS	drilling, I ble and c c c	Cement mt to surface mt to surface side Intermediate -
200' 3,069' 7,421' CASING PROC CasingSt Surface/Conduct Intermediate 1 Production CORING PROC None	Spud Water/LSN Air GRAM: tring ctor GRAM:	8.8 - 9.0 10 8.4 - 9.0 1 1 Depth 200' 3,069' 7,421'	Sufficier 1000 cf Size 13 1/2" 8-3/4"	Casing Size 9-5/8"	Grade, Three	volur ad Wei C 32 kC 20	ight 2#	Landing	Point V LWIS	drilling, I ble and c c c	Cement mt to surface mt to surface side Intermediate -
200' 3,069' 7,421' CASING PROC CasingSt Surface/Conduction Intermediate 1 Production CORING PROC None COMPLETION	Spud Water/LSN Air GRAM: tring ctor GRAM:	8.8 - 9.0 4D 8.4 - 9.0 1 Depth 200' 3,069' 7,421'	Size 13 1/2" 8-3/4" 6-1/4"	Casing Size 9-5/8" 7" 4-1/2"	Grade, Three	volur ad Wei C 32 kC 20	ight 2#	Landing	Point V LWIS	drilling, I ble and c c c	Cement mt to surface mt to surface side Intermediate -
200' 3,069' 7,421' CASING PROC CasingSt Surface/Conduction Intermediate 1 Production CORING PROC None COMPLETION Rigless, 2-3 Sta	Spud Water/LSN Air GRAM: tring ctor GRAM: PROGRAM:	8.8 - 9.0 10 8.4 - 9.0 1 1 Depth 200' 3,069' 7,421'	Size 13 1/2" 8-3/4" 6-1/4"	Casing Size 9-5/8" 7" 4-1/2"	Grade, Three	volur ad Wei C 32 kC 20	ight 2#	Landing	Point V LWIS	drilling, I ble and c c c	Cement mt to surface mt to surface side Intermediate -
200' 3,069' 7,421' CASING PROC CasingSt Surface/Conduction Intermediate 1 Production CORING PROC None COMPLETION Rigless, 2-3 Str GENERAL REI	Spud Water/LSN Air GRAM: tring ctor GRAM: PROGRAM: age Limited E MARKS:	8.8 - 9.0 1 Depth 200' 3,069' 7,421' Entry Hydraulic Fi	Size 13 1/2" 8-3/4" 6-1/4"	Casing Size 9-5/8" 7" 4-1/2"	Grade, Three H-40 ST&6 J/K-55 ST& P-110	volur ad Wei C 32 kC 20	ight 2#	Landing	Point V LWIS	drilling, I ble and c c c	Cement mt to surface mt to surface side Intermediate -
200' 3,069' 7,421' CASING PROC CasingSt Surface/Conduct Intermediate 1 Production CORING PROC None COMPLETION Rigless, 2-3 Sta GENERAL REI Notify BLM/NM	Spud Water/LSN Air GRAM: Irring ctor GRAM: PROGRAM: age Limited E MARKS: IOCD 24 hour	8.8 - 9.0 1 Depth 200' 3,069' 7,421' Entry Hydraulic Fr	Size 13 1/2" 8-3/4" 6-1/4"	Casing Size 9-5/8" 7" 4-1/2"	Grade, Three H-40 ST&6 J/K-55 ST& P-110	volur ad Wei C 32 kC 20	ight 2#	Landing	Point V LWIS	drilling, I ble and c c c	Cement mt to surface mt to surface side Intermediate -
200' 3,069' 7,421' CASING PROC CasingSt Surface/Conduct Intermediate 1 Production CORING PROC None COMPLETION Rigless, 2-3 Sta GENERAL REI Notify BLM/NM	Spud Water/LSN Air GRAM: Irring ctor GRAM: PROGRAM: age Limited E MARKS: IOCD 24 hour	8.8 - 9.0 ID 8.4 - 9.0 1 Depth 200' 3,069' 7,421' Entry Hydraulic First prior to Spud, 1 quirements	Size 13 1/2" 8-3/4" 6-1/4"	Casing Size 9-5/8" 7" 4-1/2"	Grade, Three H-40 ST&6 J/K-55 ST& P-110	volur ad Wei C 32 kC 20	ight 2#	Landing	Point V LWIS	drilling, I ble and c c c	Cement mt to surface mt to surface side Intermediate -
200' 3,069' 7,421' CASING PROC CasingSt Surface/Conduct Intermediate 1 Production CORING PROC None COMPLETION Rigless, 2-3 Sta GENERAL REI Notify BLM/NM	Spud Water/LSN Air GRAM: tring ctor GRAM: PROGRAM: age Limited E MARKS: IOCD 24 hour Testing Rec	8.8 - 9.0 1 Depth 200' 3,069' 7,421' Entry Hydraulic Fr	Sufficier 1000 ct Size 13 1/2" 8-3/4" 6-1/4" rac, FMC Unihe	Casing Size 9-5/8" 7" 4-1/2"	Grade, Three H-40 ST&0 J/K-55 ST8 P-110 ementing.	Volur ad Wel 2 32 kC 20 111	ight 2#	Landing 100' below	Point V LWIS OT	drilling, I ble and c c c 150' in: TOC	Cement mt to surface mt to surface side Intermediate -
200' 3,069' 7,421' CASING PROC CasingSt Surface/Conduction Intermediate 1 Production CORING PROC None COMPLETION Rigless, 2-3 Sta GENERAL REI Notify BLM/NM BOP Pressure	Spud Water/LSN Air GRAM: tring ctor GRAM: PROGRAM: age Limited E MARKS: IOCD 24 hour Testing Rection	8.8 - 9.0 ID 8.4 - 9.0 1 Depth 200' 3,069' 7,421' Entry Hydraulic First prior to Spud, 1 quirements	Sufficier 1000 ct Size 13 1/2" 8-3/4" 6-1/4" rac, FMC Unihe	fm for hammer Casing Size 9-5/8" 7" 4-1/2"	Grade, Three H-40 ST&C J/K-55 ST& P-110 ementing.	Volur ad Wel 2 32 kC 20 111	ight 2#	Landing 100' below	Point V LWIS OT	c c c 150' in:	Cement mt to surface mt to surface side Intermediate - survey required
200' 3,069' 7,421' CASING PROC CasingSt Surface/Conduction Intermediate 1 Production CORING PROC None COMPLETION Rigless, 2-3 Sta GENERAL REI Notify BLM/NM BOP Pressure Format	Spud Water/LSN Air GRAM: tring ctor GRAM: PROGRAM: age Limited E MARKS: OCD 24 hour Testing Rection suse	8.8 - 9.0 ID 8.4 - 9.0 1 Depth 200' 3,069' 7,421' Entry Hydraulic First prior to Spud, liquirements Depth	Sufficier 1000 ct Size 13 1/2" 8-3/4" 6-1/4" rac, FMC Unihe	Casing Size 9-5/8" 7" 4-1/2"	Grade, Three H-40 ST&C J/K-55 ST& P-110 ementing.	Volur ad Wel 2 32 kC 20 111	ight 2#	Landing 100' below	Point V LWIS OT ticlpated s	c c c 150' in: TOC	Cement mt to surface mt to surface side Intermediate - survey required
200' 3,069' 7,421' CASING PROC CasingSt Surface/Conduction CORING PROC None COMPLETION Rigless, 2-3 Sta GENERAL REI Notify BLM/NM BOP Pressure Format Cliffho	Spud Water/LSN Air GRAM: tring ctor GRAM: PROGRAM: age Limited E MARKS: IOCD 24 hour Testing Rection use okout	8.8 - 9.0 Depth 200' 3,069' 7,421' intry Hydraulic Framerita pepth quirements Depth 4,206'	Sufficier 1000 ct Size 13 1/2" 8-3/4" 6-1/4" rac, FMC Unihe	Casing Size 9-5/8" 7" 4-1/2" ead d Casing and Co	Grade, Three H-40 ST&C J/K-55 ST& P-110 ementing.	Volur ad Wel 2 32 kC 20 111	ight 2#	Landing 100' below	Point W LWIS DT ticipated s	c c c 150' in TOC	Cement mt to surface mt to surface side Intermediate - survey required
200' 3,069' 7,421' CASING PROC CasingSt Surface/Conduction Intermediate 1 Production CORING PROC None COMPLETION Rigless, 2-3 Sta GENERAL REI Notify BLM/NM BOP Pressure Format Cliffho Point Lo	Spud Water/LSN Air GRAM: tring ctor GRAM: PROGRAM: age Limited E MARKS: OCD 24 hour Testing Rec tion cuse okout	8.8 - 9.0 ID 8.4 - 9.0 1 Depth 200' 3,069' 7,421' Entry Hydraulic First prior to Spud, in its prior to Spu	Sufficier 1000 ct Size 13 1/2" 8-3/4" 6-1/4" Fac, FMC Unihe BOP testing, an	Casing Size 9-5/8" 7" 4-1/2" and d Casing and Co	Grade, Thre H-40 ST&0 J/K-55 ST8 P-110 ementing. m hole pressu 0 0 0 0	Volur ad Wei 2 32 kC 20 111	ne su light 2# D# .6#	fficient to ma	Point V LWIS OT ticipated s () () () () () () () () ()	c c c 150' in: TOC	Cement mt to surface mt to surface side Intermediate - survey required
200' 3,069' 7,421' CASING PROC CasingSt Surface/Conduction Intermediate 1 Production CORING PROC None COMPLETION Rigless, 2-3 Sta GENERAL REI Notify BLM/NM BOP Pressure Format Cliffho Point Lo	Spud Water/LSN Air GRAM: tring ctor GRAM: PROGRAM: age Limited E MARKS: OCD 24 hour Testing Rec tion cuse okout bta ested BOP Programs	8.8 - 9.0 Depth 200' 3,069' 7,421' intry Hydraulic Firs prior to Spud, 1 quirements Depth 4,206' 4,968' 7,171' ressure Test Exc	Sufficier 1000 ct Size 13 1/2" 8-3/4" 6-1/4" Fac, FMC Unihe BOP testing, an	Casing Size 9-5/8" 7" 4-1/2" ead d Casing and Co ticipated botto 500 600 260 si ** N	Grade, Three H-40 ST&C J/K-55 ST& P-110 ementing.	Volur ad Wei 2 32 kC 20 111	ne su light 2# D# .6#	fficient to ma	Point V LWIS OT ticipated s () () () () () () () () ()	c c c 150' in: TOC	Cement mt to surface mt to surface side Intermediate - survey required
200' 3,069' 7,421' CASING PROC CasingSt Surface/Conduction Intermediate 1 Production CORING PROC None COMPLETION Rigless, 2-3 Sta GENERAL REI Notify BLM/NM BOP Pressure Format Cliffho Point Loc Dako Reque	Spud Water/LSN Air GRAM: tring ctor GRAM: PROGRAM: age Limited E MARKS: OCD 24 hour Testing Rec tion buse okout bta ested BOP Pr wed by:	8.8 - 9.0 Depth 200' 3,069' 7,421' intry Hydraulic Firs prior to Spud, 1 quirements Depth 4,206' 4,968' 7,171' ressure Test Exc	Sufficier 1000 ct Size 13 1/2" 8-3/4" 6-1/4" ac, FMC Unihe BOP testing, and And eption = 1500 p	Casing Size 9-5/8" 7" 4-1/2" add d Casing and Co ticipated botton 500 600 260 si +** N	Grade, Three H-40 ST&C J/K-55 ST& P-110 ementing. m hole pressu 0 0 0 lote: Determin	Volur ad Wei 2 32 kC 20 111	ne su light 2# D# .6#	Landing 100' below DKC	Point V LWIS OT ticipated s () () () () () () () () ()	c c c 150' in: TOC	Cement mt to surface mt to surface side Intermediate - survey required
200' 3,069' 7,421' CASING PROC CasingSt Surface/Conduction Intermediate 1 Production CORING PROC None COMPLETION Rigless, 2-3 Sta GENERAL REI Notify BLM/NM BOP Pressure Format Cliffho Point Lo Dako Reque	Spud Water/LSN Air GRAM: tring ctor GRAM: PROGRAM: age Limited E MARKS: OCD 24 hour Testing Rec tion buse okout bta ested BOP Pr wed by:	8.8 - 9.0 Depth 200' 3,069' 7,421' intry Hydraulic Firs prior to Spud, 1 quirements Depth 4,206' 4,968' 7,171' ressure Test Exc	Sufficier 1000 ct Size 13 1/2" 8-3/4" 6-1/4" ac, FMC Unihe BOP testing, and Anti eption = 1500 p	Casing Size 9-5/8" 7" 4-1/2" add d Casing and Co ticipated botton 500 600 260 si +** N	ementing. m hole pressured to be pressured to	Volur Pad Wel C 32 kC 20 111	ne su light 2# D# .6#	Landing 100' below DKC	Point V LWIS OT ticipated s (0 1022 da: ABHP -	c c c 150' in: TOC	Cement mt to surface mt to surface side Intermediate survey required pressure**

Additional Operator Remarks Mudge C 1M APD

BP America Production Company respectfully requests permission to drill the subject well to a total depth of approximately 7421'. 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 +/- 1000 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

Cementing Program

Vell Name:	Mudge C #1M							
Location:	9-31N-11W: 2	2250' FSL, 885	FWL					
County:	San Juan			•	Well Flac			
State:	New Mexico				Formation:	saverde/Basin Dakota		
					KB Elev (est)		116	
					GL Elev. (est	i) 6	102	
Casing Program:						·	010: 0.1	
Casing String	Est. Depth	Hole Size	Casing Size		TOC	Stage Tool	Cmt Cir. Out	
	(ft.)	(in.)	(in.)		(ft.) Surface	Or TOL (ft.)	(bbl.)	
Surface ntermediate	200 3069	13.5 8.75	9.625 7		Surface	NA NA		
Production -	7421	6.75 6.25	4.5		2969	NA NA		
Casing Propertie			actor Included		2000			
Casing Propertie	Size	Weight	Grade	•	Collapse	Joint St.	Capacity Drift	
odoling othing	(in.)	(lb/ft)	Ciudo		(psi.)	(1000 lbs.)	(bbl/ft.) (in.)	
Surface	9.62		H-40	2270	. ,		254 0.0787	8.84
Intermediate			K-55	3740			234 0.0405	6.45
Production -	4.		J-55	5350			154 0.0155	3.87
Mud Program			····	_				
Apx. Interval	Mud Type	Mud Weight				roperties Prio Ce	ementing:	
(ft.)				PV	<20			
	144 1 10 1			YP	<10			
0 - SCP	Water/Spud	8.6-9.2		Fluid Loss	<15			
SCP - ICP ICP - ICP2	Water/LSND Gas/Air Mist	8.6-9.2 NA						
ICP - ICP2 ICP2 - TD	LSND	8.6 - 9.2						
Cementing Progra		0.0 - 9.2						
Cementing Frogra	u 11.		Surface		Intermedia	ate	Production	
Excess %, Lead			100		75		40	
Excess %, Tail			NA		0		40	
BHST (est deg. F)		75		120		183	
Special Instruction	ns		1,6,7		1,6,8		2,4,6	
	1. Do not wash	pumps and line	es.					
	2. Wash pumps	s and lines.						
	3. Reverse out							
	4. Run Blend To		,					
	5. Record Rate		•					
	6. Confirm dens	•						
	7. 1" cement to							
Notes:	8. If cement is a						minmize drillout.	
Surface:	DO NOT Wash o	ip on top or plu	g. Wasir intes	belove displace	ing productio	it certient job to	minimize dimodi.	
ouriace.	Preflush		20 bbl.	FreshWat	er			
	Slurry 1	154	sx Class C C				195 cuft	
				(accelerator)			100 Odik	
	-						0.4007	HOH
·	TOC@Surface		270 00012	(,			U 4007 CUII/	
Slurry Properties:	TOC@Surface		270 00012			Water	0.4887 cuft/	it Oi i
Slurry Properties:	TOC@Surface	Density	270 04012	Yield		Water (gal/sk)	U.4667 CUID	it Of I
Slurry Properties:	TOC@Surface	Density (lb/gal)		Yield (ft3/sk)		Water (gal/sk)		it On
	TOC@Surface Slurry 1	Density (lb/gal) 15.:	2	Yield			5.8	it Om
Slurry Properties: Casing Equipmer	TOC@Surface Slurry 1	Density (lb/gal) 15.3 9-5/8", 8R, 8	2 ST&C	Yield (ft3/sk)				
Slurry Properties: Casing Equipmer	TOC@Surface Slurry 1	Density (lb/gal) 15.: 9-5/8", 8R, 8	2 ST&C pe	Yield (ft3/sk)				
	TOC@Surface Slurry 1	Density (lb/gal) 15.: 9-5/8", 8R, 9 1 Guide Sho 1 Top Wood	2 ST&C se en Plug	Yield (ft3/sk)				
	TOC@Surface Slurry 1	Density (lb/gal) 15.: 9-5/8", 8R, \$ 1 Guide Sho 1 Top Wood 1 Autofill ins	2 ST&C be en Plug ert float valve	Yield (ft3/sk)				i Oii
	TOC@Surface Slurry 1	Density (lb/gal) 15.: 9-5/8", 8R, 9 1 Guide Sho 1 Top Wood	2 ST&C be en Plug ert float valve	Yield (ft3/sk)				

Cementing Program

Intermediate:	-					الكوسطان والكوسطار بواجه
intermediate.	Fresh Water	20 bbl		fresh water		
	Lead	20 001	250	sx Class "G" Ce	ment	658 cuft
	Slurry 1			+ 3% D79 exten		333 34.1
	TOC@Surface			+1/4 #/sk. Cellor		
	100@ounace			+ 5 lb/sk Gilsoni		
				O ID/OR GIOGIN		
	Tail		59	sx 50/50 Class "	G"/Poz	75 cuft
	Slurry 2			+ 2% gel (extend	ier)	
	1 7	ft fill		+1/4 #/sk. Cellor		0.1503 cuft/ft OH
	,	•		+ 2% CaCl2 (ac		0.1746 cuft/ft csg ann
	1			+ 5 lb/sk Gilsoni		• • • • • • • • • • • • • • • • • • •
Slurry Properties:	1	Density		Yield	Water	
,	į.	(lb/gal)		(ft3/sk)	(gal/sk)	
Slurry 1	;	11.4		2.63	15.8	
Slurry 2		13.5		1.27	5.72	
Casing Equipmen	: b:	7", 8R, ST&C				
3	:	1 Float Shoe (autofill wit	th mini	mal LCM in mud	•	
	i	1 Float Collar (autofill w				
		1 Stop Ring			,	
		Centralizers as needed				
		1 Top Rubber Plug				
		1 Thread Lock Compou	nd			
Production:						
	Fresh Water	10 bbl		CW100		
	Lead		182	LiteCrete D961	/ D124 / D154	459 cuft
	Slurry 1		.02	+ 0.03 gps D47		100 0011
	TOC, 400' above	a 7" shoe		+ 0.5% D112 flu		
	100, 400 abov	37 31100		+ 0.11% D65 TI		
	Tail		161	sx 50/50 Class		232 cuft
	•		101			232 Cuit
	Slurry 2	. 6.00		+ 5% D20 gel (e		
	1614	f fill		+ 0.1% D46 ant		
	•			+ 1/4 #/sk. Cello		
				+ 0.25% D167 F		
				+ 5 lb/sk Gilson		
				+0.1% d800, ref	tarder	
	T.			+0.15% D65, di	spersant	
	4					0.1026 cuft/ft OH
Slurry Properties:		Density		Yield	Water	
		(lb/gal)		(ft3/sk)	(gal/sk)	0.1169 cuft/ft csg ann
Slurry 1	1	9.5		2.52	6.38	
Slurry 2		13		1.44	6.5	Top of Mancos 5307
Casing Equipmen	t:	4-1/2", 8R, ST&C				
 		1 Float Shoe (autofill wi	ith min	imal LCM in mud)	
	1	1 Float Collar (autofill w				
			gar IIII	minai EOIVI III MUC	* /	
		1 Stop Ring				
		Centralizers, as needed	1			
		1 Top Rubber Plug				
		1 Thread Lock Compou	ınd			

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.

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 depth11" 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



