

Submit 3 Copies To Appropriate District Office

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Ave., Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-103

March 4, 2004

WELL API NO.

30-045-32898

5. Indicate Type of Lease

STATE ☐ FEE ☒

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name
Mudge LS

8. Well Number

9 B

9. OGRID Number

000778

10. Pool name or Wildcat

Blanco Mesaverde

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well:

Oil Well ☐ Gas Well ☒ Other ☐

2. Name of Operator

BP AMERICA PRODUCTION CO

3. Address of Operator

P.O. BOX 3092 HOUSTON, TX 77079-2064

4. Well Location

Unit Letter H : 2280 feet from the North line and 760 feet from the East line

Section 03

Township 31N

Range 11W

NMPM SAN JUAN

County

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
5985' GR

Pit or Below-grade Tank Application (For pit or below-grade tank closures, a form C-144 must be attached)

Pit Location: UL Sect Twp Rng Pit type Depth to Groundwater Distance from nearest fresh water well

Distance from nearest surface water Below-grade Tank Location UL Sect Twp Rng ;

 feet from the line and feet from the line

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐

TEMPORARILY ABANDON ☐ CHANGE PLANS ☒

PULL OR ALTER CASING ☐ MULTIPLE COMPLETION ☐

OTHER: Change Bottom Hole Location ☒

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐

CASING TEST AND CEMENT JOB ☐

OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

The original APD was submitted 02/16/05 and approved 02/24/05.

BP America respectfully requests permission to change the bottom hole location as per the attached C-102. The Intermediate and Production casing depths will also change as per the following: Int 1 from 2362' to 2409'. Production change from 5372' to 5535'. The Measured Depth TD will change to 5535.

HOLD C104 FOR Directional Survey

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOC guidelines ☐, a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE Cherry Hlava TITLE Regulatory Analyst DATE 05/17/05

Type or print name Cherry Hlava

E-mail address: hlavacl@bp.com

Telephone No. 281-366-4081

(This space for State use)

APPROVED BY [Signature] TITLE DEPUTY OIL & GAS INSPECTOR, DIST. IV DATE MAY 25 2005

BP AMERICA PRODUCTION COMPANY

DRILLING AND COMPLETION PROGRAM

5/16/2005

Lease:	Mudge LS	Well Name & No.	Mudge LS #9B	Field:	Blanco Mesaverde
County:	San Juan, New Mexico	Surface Location:	3-31N-11W : 2280' FNL, 760' FEL		
Minerals:	State	Surface:	Lat: 36.9279016 Long:-107.9705708		
Rig :	Aztec 507	BH Location:	3-31N-11W : 2130' FNL, 1650' FEL; Lat: 36.9282523 Long:-107.9736150		

OBJECTIVE: Drill 400' below the top of the Point Lookout, set 4-1/2" production casing. Stimulate MF, and PL intervals.

Maximum horizontal offset ~900 ft.

METHOD OF DRILLING		APPROXIMATE DEPTHS OF GEOLOGICAL MARKER			
TYPE OF TOOLS	DEPTH OF DRILLING	Actual GL:	5985	Estimated KB:	5,996.0'
Rotary	0 - TD	Marker		SUBSEA	TVD
LOG PROGRAM		Ojo Alamo		4,182'	1,814'
Type	Depth Interval	Kirtland		4,108'	1,888'
Single Run		Fruitland	*	3,919'	2,077'
		Fruitland Coal	*	3,693'	2,303'
		Pictured Cliffs	*	3,316'	2,680'
		Lewis	*	3,107'	2,889'
Cased Hole		Cliff House	#	1,812'	4,184'
TDT- CBL	TD to 7" shoe.	Menefee	#	1,472'	4,524'
	Identify 4 1/2" cement top	Point Lookout	#	1,048'	4,948'
REMARKS:		Mancos		720'	5,276'
- Please report any flares (magnitude & duration).					
		TOTAL DEPTH:		648'	5,348'
		# Probable completion interval		* Possible Pay	

SPECIAL TESTS	DRILL CUTTING SAMPLES	DRILLING TIME
TYPE	FREQUENCY	DEPTH
	none	2,409' to TD
		Geolograph
		0 - TD
REMARKS:		

MUD PROGRAM:				
Interval	TypeMud	#/gal	Vis, sec/qt	/30 min
200'	Spud	8.8 - 9.0	Sufficient to clean hole.	
2,409'	Water/LSND	8.4 - 9.0		<9
5,535'	Air	1	1000 cfm for bit	
				Other Specification
				Sweep hole while whilst water drilling, LCM onsite
				Volume sufficient to maintain a stable and clean wellbore

CASING PROGRAM:							
CasingString	Depth	Size	Casing Size	Grade, Thread	Weight	Landing Point	Cement
Surface/Conductor	200'	13 1/2"	9-5/8"	H-40 ST&C	32#		cmt to surface
Intermediate 1	2,409'	8-3/4"	7"	J/K-55 ST&C	20#	50' above FT coal	cmt to surface
Production	5,535'	6-1/4"	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		Depth	Anticipated bottom hole pressure	Max anticipated surface pressure**
Cliffhouse		4,184'	500	0
Point Lookout		4,948'	600	0
Dakota		-	2600	-
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:
HGJ	JMP/JLP		16-May-05	
Form 46 7-84bw		For Drilling Dept.		For Production Dept.

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District IV

2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department**OIL CONSERVATION DIVISION**
2040 South Pacheco
Santa Fe, NM 87505Form C-102
Revised August 15, 2000Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies☐ AMENDED REPORT**WELL LOCATION AND ACREAGE DEDICATION PLAT**

¹ API Number 30-045-32898	² Pool Code 72319	³ Pool Name Blanco Mesaverde
⁴ Property Code 00911	⁵ Property Name Mudge LS	⁶ Well Number 9 B
⁷ OGRID No. 000778	⁸ Operator Name BP America Production Company	⁹ Elevation 5985'

¹⁰ Surface Location

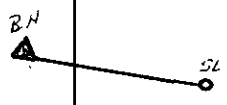
UL or lot no. H	Section 03	Township 31N	Range 11W	Lot Idn	Feet from the 2280'	North/South line North	Feet from the 760'	East/West line East	County San Juan
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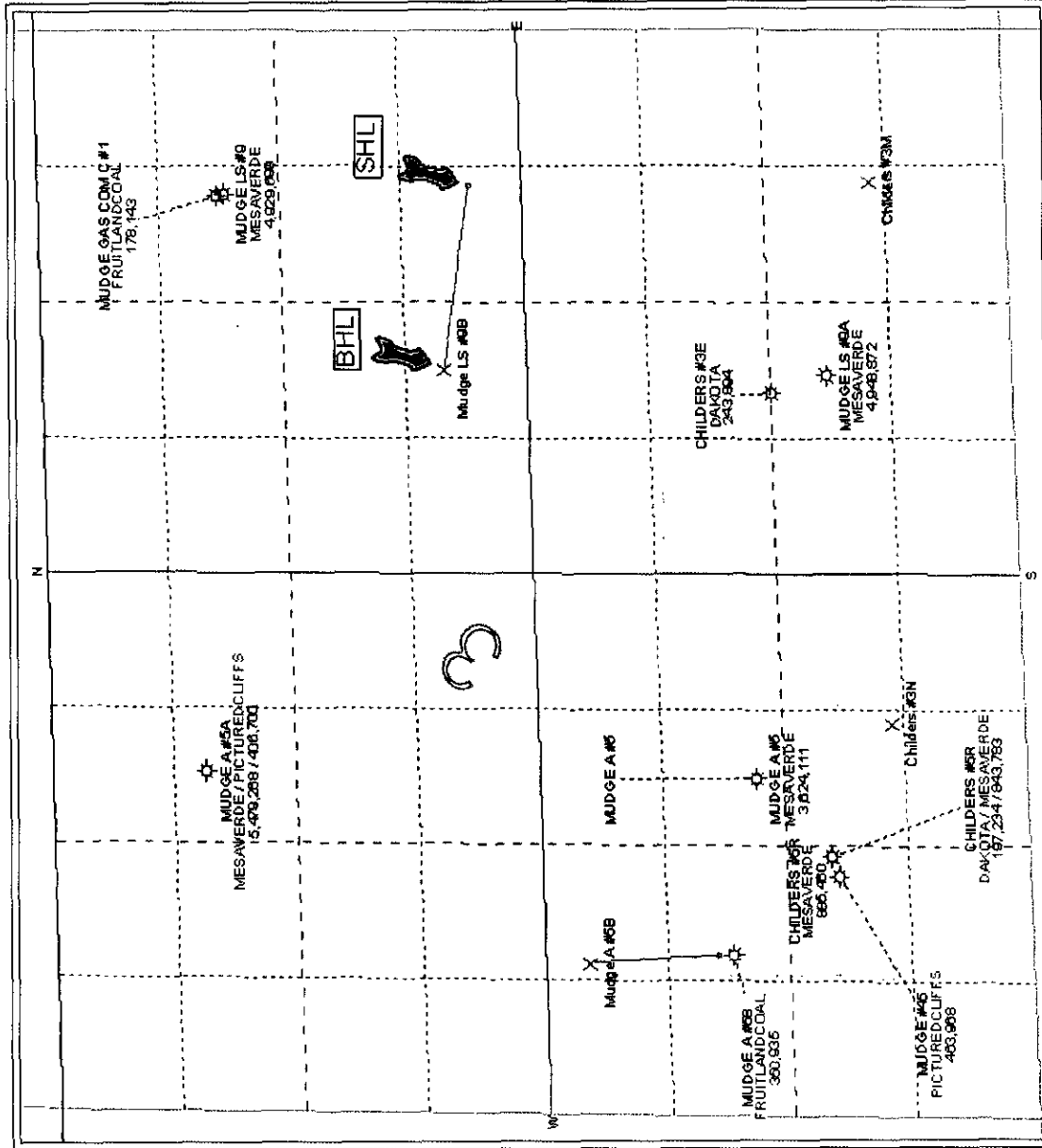
¹¹ Bottom Hole Location If Different From Surface

UL or lot no. G	Section 03	Township 31N	Range 11W	Lot Idn	Feet from the 2130'	North/South line North	Feet from the 1650'	East/West line East	County San Juan
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¹² Dedicated Acres 320.81	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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

¹⁶					¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. <i>Cherry Hlava</i> Signature Cherry Hlava Printed Name Regulatory Analyst Title 05/17/2005 Date
					¹⁸ 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. 03/30/2005 Date of Survey Signature and Seal of Professional Surveyor: Gary D Vann 7016 Certificate Number



BP America Production

Mudge LS #9B

3-31N-11W

SHL 2280 FNL 780 FEL

BHL 2130 FNL 1660 FEL



POSTED WELL DATA

Well Label
PdCom: FNMJAMIE
PdCom: CUMOGAS

WELL SYMBOLS
X Factory: new well location
Gas Well
Temporarily Abandoned

By: G&Z

May 10, 2005

Cementing Program

Revised 05/16/05

Well Name: Mudge LS #9B
 Location: 3-31N-11W : 2280' FNL, 760' FEL
 County: San Juan
 State: New Mexico

Well Flac
 Formation: MesaVerde
 KB Elev (est) 5996
 GL Elev. (est) 5985

Casing Program:

Casing String	Est. Depth (ft.)	Hole Size (in.)	Casing Size (in.)	Thread	TOC (ft.)	Stage Tool Or TOL (ft.)
Surface	200	13.5	9.625	ST&C	Surface	NA
Intermediate	2409	8.75	7	LT&C	Surface	NA
Production -	5535	6.25	4.5		2309	2561

Casing Properties:

Casing String	Size (in.)	Weight (lb/ft)	Grade	Burst (psi.)	Collapse (psi.)	Joint St. (1000 lbs.)	Capacity (bbl/ft.)	Drift (in.)
Surface		9.625	32 H-40	2270	1400	254	0.0787	8.845
Intermediate		7	20 K-55	3740	2270	234	0.0405	6.456
Production -		4.5	10.5 J-55	4790	4010	132	0.0159	3.927

Mud Program

Apx. Interval (ft.)	Mud Type	Mud Weight	<u>Recommended Mud Properties Prio Cementing:</u>	
			PV	<20
			YP	<10
			Fluid Los:	<15
0 - SCP	Water/Spud	8.6-9.2		
SCP - ICP	Water/LSND	8.6-9.2		
ICP - ICP2	Gas/Air Mist	NA		
ICP2 - TD	LSND	8.6 - 9.2		

Cementing Program:

	Surface	Intermediate	Production
Excess %, Lead	100	100	40
Excess %, Tail	NA	0	40
BHST (est deg. F)	72	110	159
Time Between Stages, (hr)	NA	NA	NA
Special Instructions	1,6	1,6	2,6

1. Do not wash pumps and lines.
2. Wash pumps and lines.
3. Reverse out
4. Run Blend Test on Cement
5. Record Rate, Pressure, and Density on 3.5" disk
6. Confirm densitometer with pressurized mud scales

Surface:

Preflush	20 bbl.	FreshWater	
Slurry 1	154 sx Class C Cement		195 cuft
TOC@Surface	+ 2% CaCl2 (accelerator)		
			0.4887 cuft/ft OH
			100 % excess

Slurry Properties:

	Density (lb/gal)	Yield (ft ³ /sk)	Water (gal/sk)
Slurry 1	15.2	1.27	5.8

Casing Equipment:

- 9-5/8", 8R, ST&C
- 1 Guide Shoe
- 1 Top Wooden Plug
- 1 Autofill insert float valve
- Centralizers, as needed
- 1 Stop Ring
- 1 Thread Lock Compound

Cementing Program

Intermediate:

Fresh Water	20 bbl	fresh water	
Lead		210-sx Class "C" Cement 269	549 cuft
Slurry 1		+ 3% D79 extender	
TOC@Surface		+ 1/4 #/sk. Cellophane Flake	
		+ 0.1% D46 antifoam	
		50-sx 50/50 Class "C" Poz	
Tail		+ 2% gel (extender)	75 cuft
Slurry 2		0.1% D46 antifoam	
	500 ft fill	+ 1/4 #/sk. Cellophane Flake	0.1503 cuft/ft OH
		+ 2% S1 Calcium Chloride	0.1746 cuft/ft csg ann
			80 % excess

Slurry Properties:

	Density (lb/gal)	Yield (ft ³ /sk)	Water (gal/sk)
Slurry 1	11.7	2.61	17.77
Slurry 2	13.5	1.27	5.72

Casing Equipment:

7", 8R, ST&C

- 1 Float Shoe
- 1 Float Collar
- 1 Stop Ring
- Centralizers, as needed
- 1 Top Rubber Plug
- 1 Thread Lock Compound

Production:

Fresh Water	10 bbl	CW100	
Slurry		188-Litecrete D961 / D124 / D154	474 cuft
		+ 0.03 gps D47 antifoam	
		+ 0.5% D112 fluid loss	
TOC@Liner Top		+ 0.11% D65 TIC	

Slurry Properties:

	Density (lb/gal)	Yield (ft ³ /sk)	Water (gal/sk)	
Slurry	9.5	2.52	6.38	0.1026 cuft/ft OH
				40 % excess
				0.1169 cuft/ft csg ann

Casing Equipment:

4-1/2", 8R, ST&C

- 1 Float Shoe
- 1 Float Collar
- 1 Stop Ring
- Centralizers, as needed
- 1 Top Rubber Plug
- 1 Thread Lock Compound