

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0135
Expires: November 30, 2000**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.5. Lease Serial No.
NMSF078051

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.
NNNM760708. Well Name and No.
MUDGE COM B 2M9. API Well No.
30-045-31898-00-X110. Field and Pool, or Exploratory
BASIN DAKOTA
BLANCO MESAVERDE11. County or Parish, and State
SAN JUAN COUNTY, NM**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

BP AMERICA PRODUCTION CO

Contact:

MARY CORLEY

E-Mail: corleyml@bp.com

3a. Address

P. O. BOX 3092
HOUSTON, TX 77253

3b. Phone No. (include area code)

Ph: 281.366.4491

Fx: 281.366.0700

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 14 T31N R11W SENW 2370FNL 1680FWL

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE/REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original A
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	PD

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleation in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Original APD filed on 09/17/2003, was approved on 11/25/2003.

BP America submits for your approval our intent to directionally drill the subject well from the above stated surface location to a bottom hole location of:
2630' FSL & 1370' FWL of Section 14, T31N, R11W.

In support of our application please find attached amending drilling and completion program, cementing report, Form C-102 with SHL & BHL indicated, proposed directional plot and directional profile.

CONDITIONS OF APPROVAL

Adhere to previously issued stipulations.

14. I hereby certify that the foregoing is true and correct.	
Electronic Submission #26835 verified by the BLM Well Information System For BP AMERICA PRODUCTION CO, sent to the Farmington Committed to AFMSS for processing by ADRIENNE GARCIA on 01/21/2004 (04AXG0207SE)	
Name (Printed/Typed) MARY CORLEY	Title AUTHORIZED REPRESENTATIVE
Signature (Electronic Submission)	Date 01/14/2004

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By Original Signed: Stephen Mason	Title	Date JAN 23 2004
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	

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

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

HOLD C104 FOR Directional Survey

NMOC

District I

1625 N. French Dr., Hobbs, NM 88240

District II

811 South First, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources DepartmentOIL 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 30-045-31898	² Pool Code 71599 72319	³ Pool Name Basin Dakota Blanco Mesaverde
⁴ Property Code 000908	⁵ Property Name Mudge Com B	⁶ Well Number 2M
⁷ OGRID No. 000778	⁸ Operator Name BP America Production Company	⁹ Elevation 5989'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from	North/South	Feet from	East/West	County
Unit F	14	31N	11W		2370'	North	1680'	West	San Juan

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from	North/South	Feet	East/West	County
Unit K	14	31N	11W		2630'	South	1370'	West	San Juan

¹² Dedicated Acres 320	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

	¹⁷ OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</i>	
	Signature Mary Corley	
	Printed Name Sr. Regulatory Analyst	
	Title 01/12/2004	
¹⁸ SURVEYOR CERTIFICATION <i>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.</i>		
Date of Survey 8/25/2003		
Signature and Seal of Professional Surveyor: Gary D Vann 7016		
Certificate Number		

Cementing Program

Well Name: Mudge Com B2M
 Location: 14-31N-11W, 2370 FNL, 1680 FWL
 County: San Juan
 State: New Mexico

Field: Blanco Mesaverde / Basin Dakota
 API No.
 Well Flac
 Formation: Blanco Mesaverde/Basin Dakota
 KB Elev (est) 6003
 GL Elev. (est) 5989

Casing Program:

Casing String	Est. Depth (ft.)	Hole Size (in.)	Casing Size (in.)	Thread	TOC (ft.)	Stage Tool Or TOL (ft.)	Cmt Cir. Out (bbl.)
Surface	420 200	13.5	9.625	ST&C	Surface	NA	
Intermediate	2968	8.75	7	ST&C	Surface	NA	
Production -	7342	6.25	4.5	ST&C	2868	NA	

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	3370 2270	1400	254	0.0787	8.845
Intermediate		7	20 K-55	3740	2270	254 224	0.0405	6.456
Production -		4.5	11.6 J-55	5350	4960	154	0.0155	3.875

Mud Program

Apx. Interval (ft.)	Mud Type	Mud Weight	Recommended Mud Properties Prio Cementing:
			PV <20
			YP <10
			Fluid Loss <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	75	40
Excess %, Tail	NA	0	40
BHST (est deg. F)	75	120	183
Special Instructions	1,6,7	1,6,8	2,4,6

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
7. 1" cement to surface if cement is not circulated.
8. If cement is not circulated to surface, run temp. survey 10-12 hr. after landing plug.

Notes:

*Do not wash up on top of plug. Wash lines before displacing production cement job to minimize drillout.

Surface:

Preflush	20 bbl.	FreshWater	
Slurry 1	110 sx Class G Cement		117 cuft
TOC@Surface	+ 3% CaCl2 (accelerator)		
	+ 0.25 #/sk Cellophane Flake (lost circulation additive)		0.4887 cuft/ft OH

Slurry Properties:

	Density (lb/gal)	Yield (ft3/sk)	Water (gal/sk)
Slurry 1	15.8	1.16	4.95

Casing Equipment:

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

Intermediate:

Cementing Program

Fresh Water 20 bbl fresh water

Lead	250 sx Class "G" Cement	639 cuft
Slurry 1	+ 3% D79 extender	
TOC@Surface	+1/4 #/sk. Cellophane Flake	
	+ 5 lb/sk Gilsonite	
 Tail	 60 sx 50/50 Class "G"/Poz	 75 cuft
Slurry 2	+ 2% gel (extender)	
500 ft fill	+1/4 #/sk. Cellophane Flake	0.1503 cuft/ft OH
	+ 2% CaCl ₂ (accelerator)	0.1746 cuft/ft csg ann
	+ 5 lb/sk Gilsonite	

Slurry Properties:	Density (lb/gal)	Yield (ft ³ /sk)	Water (gal/sk)
Slurry 1	11.4	2.63	15.8
Slurry 2	13.5	1.27	5.72

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
 Centralizers one in middle of first joint, then every third collar
 1 Top Rubber Plug
 1 Thread Lock Compound

Production:

Fresh Water 10 bbl CW100

Lead	190 LiteCrete D961 / D124 / D154	470 cuft
Slurry 1	+ 0.03 gps D47 antifoam	
TOC, 400' above 7" shoe	+ 0.5% D112 fluid loss	
	+ 0.11% D65 TIC	
 Tail	 160 sx 50/50 Class "G"/Poz	 224 cuft
Slurry 2	+ 5% D20 gel (extender)	
1560 ft fill	+ 0.1% D46 antifoam	
	+ 1/4 #/sk. Cellophane Flake	
	+ 0.25% D167 Fluid Loss	
	+ 5 lb/sk Gilsonite	
	+0.1% d800, retarder	
	+0.15% D65, dispersant	

Slurry Properties:	Density (lb/gal)	Yield (ft ³ /sk)	Water (gal/sk)	
Slurry 1	9.5	2.52	6.38	
Slurry 2	13	1.44	6.5	Top of Mancos
				5282

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

1 Float Shoe (autofill with minimal LCM in mud)
 1 Float Collar (autofill with minimal LCM in mud)
 1 Stop Ring
 Centralizers, every 4th joint in mud drilled holes, none in air drilled holes.
 1 Top Rubber Plug
 1 Thread Lock Compound

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

Prospect Name: Mudge Com B
Lease: Mudge Com B

County: San Juan
State: New Mexico
Date: January 7, 2003

Well No: 2M
Surface Location: 14-31N-11W, 2370 FNL, 1680 FWL
Bottom hole Loc.: 14-31N-11W, 2630 FSL, 1370 FWL
Field: Blanco Mesaverde/Basin Dakota

OBJECTIVE: Drill 220' below the top of the Upper Two Wells (DKOT), set 41/2" production casing, Stimulate CH, MF, PL and DK intervals							
METHOD OF DRILLING				APPROXIMATE DEPTHS OF GEOLOGICAL MARKER			
TYPE OF TOOLS		DEPTH OF DRILLING		Estimated GL: 5989		Estimated KB: 6003	
Rotary		0 - TD					
LOG PROGRAM							
TYPE		DEPTH INVERAL		MARKER		TVD	
<u>OPEN HOLE</u>						MD	
none				Ojo Alamo		1713	
				Kirkland		1861	
				Fruitland		2023	
				Fruitland Coal		2321	
				Pictured Cliffs		2657	
				Lewis Shale		2822	
				Cliff House		4140	
				Menefee Shale		4494	
				Point Lookout		4946	
				Mancos		5223	
				Greenhorn		6965	
				Bentonite Marker		7010	
				Two Wells		7063	
				Paguate		7149	
				Cubero Upper		7179	
				Cubero Lower		7199	
				TOTAL DEPTH		7283	
						7342	
REMARKS:				# Probable completion interval			
- Please report any flares (magnitude & duration).				* Possible Pay			
SPECIAL TESTS				DRILL CUTTING SAMPLES		DRILLING TIME	
TYPE				FREQUENCY		FREQUENCY	
None				DEPTH		DEPTH	
				10'		Geograph	
				2922'-TD		0-TD	
REMARKS:							
MUD PROGRAM:							
Approx. Interval		Type Mud	Weight, #/ga	Vis, sec/qt	W/L cc's/30 min	Other Specification	
0 - 120 200		Spud	8.6-9.2				
120 - 2968 (1)		Water/LSND	8.6-9.2		<6		
2968 - 7342		Gas/Air/N2/Mist	Volume sufficient to maintain a stable and clean wellbore				
REMARKS:							
(1) The hole will require sweeps to keep unloaded while fresh water drilling. Let hole conditions dictate frequency.							
CASING PROGRAM: (Normally, tubular goods allocation letter specifies casing sizes to be used. Hole sizes will be governed by Contract)							
Casing String	Estimated Depth	Casing Size	Grade	Weight	Hole Size	Landing Pt, Cmt, Etc.	
Surface/Conductor	200 120	9 5/8"	H-40 ST&C	32#	13.5"	1	
Intermediate 1	2968	7"	J/K-55 ST&C	20#	8.75"	1,2	
Production	7342	4 1/2"	J-55	11.6#	6.25"	3	
REMARKS:							
(1) Circulate Cement to Surface							
(2) Set casing 100' into Lewis Shale							
(3) Bring cement 100' above 7" shoe							
CORING PROGRAM:							
None							
COMPLETION PROGRAM:							
Rigless, 4-6 Stage Limited Entry Hydraulic Frac							
GENERAL REMARKS:							
Notify BLM/NMOCDD 24 hours prior to Spud; BOP testing, and Casing and Cementing.							
Form 46 Reviewed by:				Logging program reviewed by: N/A			
PREPARED BY:		APPROVED:		DATE:			
HGJ/MNP/JMP				January 7, 2003			
				Version 5.0			
Form 46 12-00 MNP							

BOP Test Pressure

BP America Production Company BOP Pressure Testing Requirements

Well Name: Mudge Com B
County: San Juan

2M
State: New Mexico

Formation	TVD	Anticipated Bottom Hole Pressure	Maximum Anticipated Surface Pressure **
Ojo Alamo	998		
Fruitland Coal	2321		
PC	2657		
Lewis Shale	2822		
Cliff House	4140	500	0
Menefee Shale	4494		
Point Lookout	4946	600	0
Mancos	5223		
Dakota	7063	2600	1002

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

Requested BOP Pressure Test Exception: 1500 psi



Well	Field	Structure
Mudge Com B 2M	San Juan County, NM	BP 14-31N-11W

Proposal Draft Only

Quality Control

Date Drawn: Fri 09:06 AM December 19, 2003

Drawn by: Dana Crossland

Checked by: Jim Wimberg

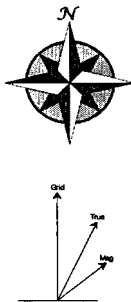
Client OK:

Grid North

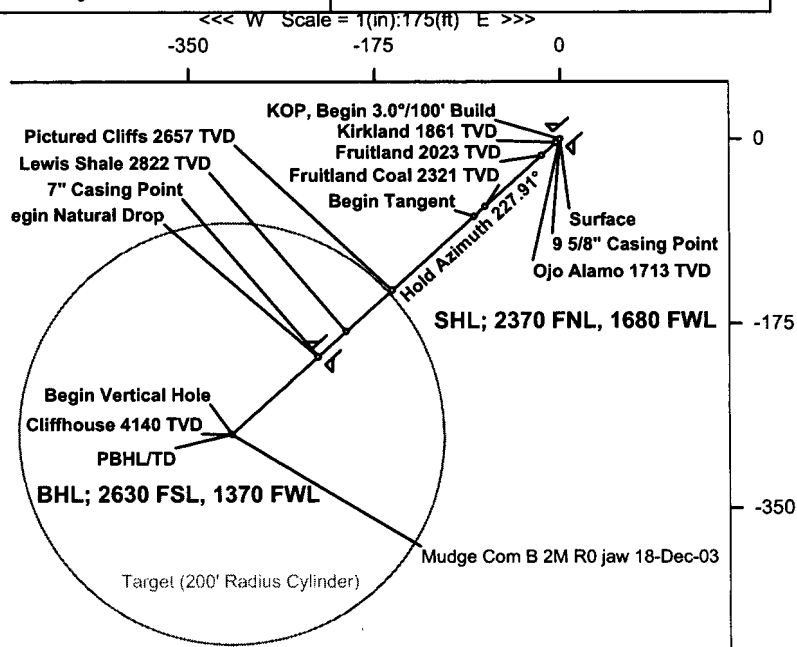
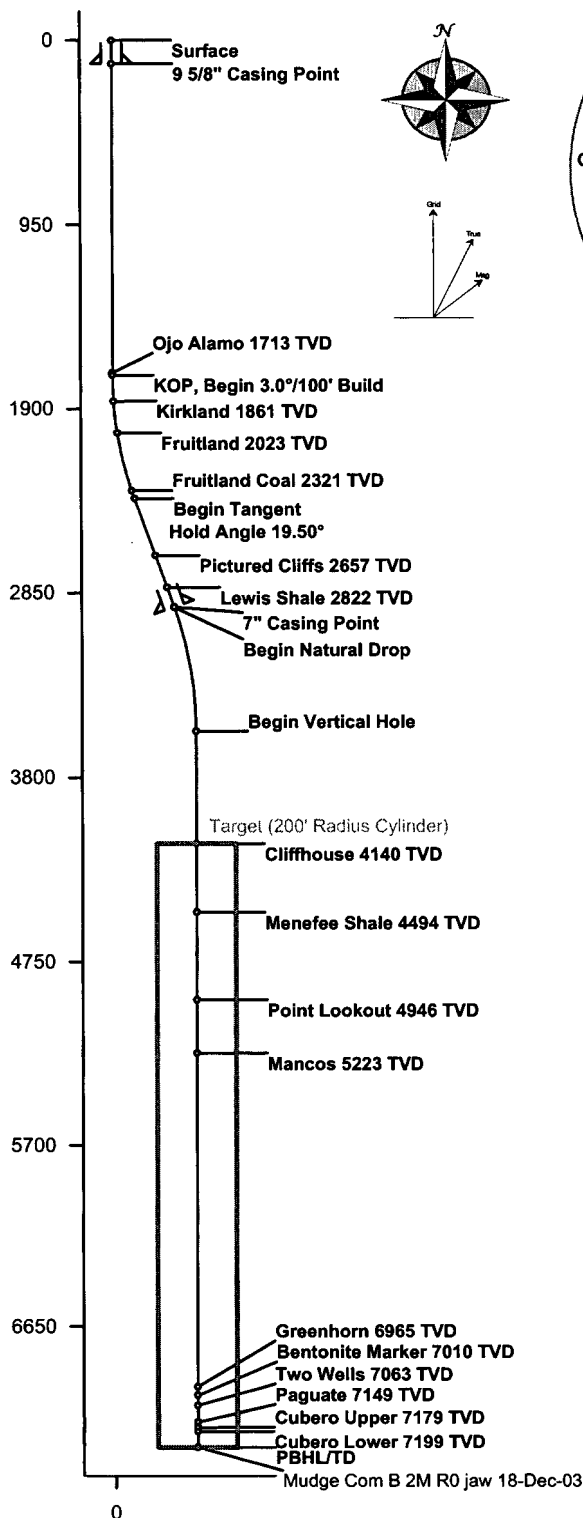
Tot Corr ()

Mag Dec ()

Grid Conv ()



TVD Scale = 1(in):950(ft)



Critical Point		MD	INCL	AZIM	TVD	YSEC	N(+) / S(-)	E(+) / W(-)	DLS
Surface		0.00	0.00	227.91	0.00	0.00	0.00	0.00	0.00
9 5/8" Casing Point		120.00	0.00	227.91	120.00	0.00	0.00	0.00	0.00
Ojo Alamo 1713 TVD		1713.00	0.00	227.91	1713.00	0.00	0.00	0.00	0.00
KOP, Begin 3.0°/100' Build		1725.00	0.00	227.91	1725.00	0.00	0.00	0.00	0.00
Kirkland 1861 TVD		1861.12	4.08	227.91	1861.00	4.85	-3.25	-3.60	3.00
Fruitland 2023 TVD		2024.22	8.98	227.91	2023.00	23.39	-15.68	-17.36	3.00
Fruitland Coal 2321 TVD		2331.12	18.18	227.91	2321.00	95.38	-63.93	-70.78	3.00
Begin Tangent		2374.99	19.50	227.91	2362.51	109.54	-73.42	-81.29	3.00
Pictured Cliffs 2657 TVD		2687.39	19.50	227.91	2657.00	213.82	-143.32	-158.68	0.00
Lewis Shale 2822 TVD		2862.43	19.50	227.91	2822.00	272.25	-182.49	-202.04	0.00
7" Casing Point		2968.52	19.50	227.91	2922.00	307.66	-206.22	-228.32	0.00
Begin Natural Drop		2970.10	19.50	227.91	2923.49	308.19	-206.58	-228.71	0.00
Begin Vertical Hole		3620.08	0.00	227.91	3561.00	417.73	-280.00	-310.00	3.00
Cliffhouse 4140 TVD		4199.08	0.00	227.91	4140.00	417.73	-280.00	-310.00	0.00
Menefee Shale 4494 TVD		4553.08	0.00	227.91	4494.00	417.73	-280.00	-310.00	0.00
Point Lookout 4946 TVD		5005.08	0.00	227.91	4946.00	417.73	-280.00	-310.00	0.00
Mancos 5223 TVD		5282.08	0.00	227.91	5223.00	417.73	-280.00	-310.00	0.00
Greenhorn 6965 TVD		7024.08	0.00	227.91	6965.00	417.73	-280.00	-310.00	0.00
Bentonite Marker 7010 TVD		7069.08	0.00	227.91	7010.00	417.73	-280.00	-310.00	0.00
Two Wells 7063 TVD		7122.08	0.00	227.91	7063.00	417.73	-280.00	-310.00	0.00
Paguate 7149 TVD		7208.08	0.00	227.91	7149.00	417.73	-280.00	-310.00	0.00
Cubero Upper 7179 TVD		7238.08	0.00	227.91	7179.00	417.73	-280.00	-310.00	0.00
Cubero Lower 7199 TVD		7258.08	0.00	227.91	7199.00	417.73	-280.00	-310.00	0.00
PBHL/TD		7342.08	0.00	227.91	7283.00	417.73	-280.00	-310.00	0.00

Vertical Section (ft) Azim = 227.91°, Scale = 1(in):950(ft) Origin = 0 N/-S, 0 E/-W

<<< S Scale = 1(in):175(ft) N >>>



Mudge Com B 2M R0 18-Dec-03 Proposal

Schlumberger

Report Date: December 19, 2003 Client: BP America Inc. Field: NM, San Juan County (NAD 83 WZ) Structure / Slot: BP 14-31N-11W (Mudge Com B 2M) / Mudge Com B 2M (No Plat/Lat/Long) Well: Mudge Com B 2M (No Plat/Lat/Long) Borehole: Original Hole (Est RKB) UW/API#: Survey Name / Date: Mudge Com B 2M R0 jaw 18-Dec-03 / December 18, 2003 Tort / AHD / DDI / ERD ratio: Grid Coordinate System: Location Lat/Long: Location Grid N/E Y/X: Grid Convergence Angle: Grid Scale Factor:	Survey / DLS Computation Method: Minimum Curvature / Lubinski Vertical Section Azimuth: 227.910° Vertical Section Origin: N 0.000 ft, E 0.000 ft TVD Reference Datum: RKB TVD Reference Elevation: 6001.0 ft relative to MSL Sea Bed / Ground Level Elevation: 5989.000 ft relative to MSL Magnetic Declination: Total Field Strength: Magnetic Dip: Declination Date: Magnetic Declination Model: North Reference: Total Corr Mag North -> Grid North: Local Coordinates Referenced To:
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Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (deg)	DLS (deg/100 ft)	Tool Face (deg)
Surface	0.00	0.00	227.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-132.09M
9 5/8" Casing Point	120.00	0.00	227.91	120.00	0.00	0.00	0.00	0.00	0.00	0.00	-132.09M
Ojo Alamo 1713 TVD	1713.00	0.00	227.91	1713.00	0.00	0.00	0.00	0.00	0.00	0.00	-132.09M
KOP, Begin 3.07100' Build	1725.00	0.00	227.91	1725.00	0.00	0.00	0.00	0.00	0.00	0.00	-132.09M
	1800.00	2.25	227.91	1799.98	1.47	-0.99	-1.09	1.47	227.91	3.00	-132.09M
Kirkland 1861 TVD	1861.12	4.08	227.91	1861.00	4.85	-3.25	-3.60	4.85	227.91	3.00	-132.09M
	1900.00	5.25	227.91	1899.76	8.01	-5.37	-5.95	8.01	227.91	3.00	0.00G
	2000.00	8.25	227.91	1999.05	19.76	-13.25	-14.67	19.76	227.91	3.00	0.00G
Fruitland 2023 TVD	2024.22	8.98	227.91	2023.00	23.39	-15.68	-17.36	23.39	227.91	3.00	0.00G
	2100.00	11.25	227.91	2097.60	36.70	-24.60	-27.23	36.70	227.91	3.00	0.00G
	2200.00	14.25	227.91	2195.12	58.76	-39.39	-43.61	58.76	227.91	3.00	0.00G
	2300.00	17.25	227.91	2291.35	85.91	-57.58	-63.75	85.91	227.91	3.00	0.00G
Fruitland Coal 2321 TVD	2331.12	18.18	227.91	2321.00	95.38	-63.93	-70.78	95.38	227.91	3.00	0.00G
Begin Tangent	2374.99	19.50	227.91	2362.51	109.54	-73.42	-81.29	109.54	227.91	3.00	0.00G
Pictured Cliffs 2657 TVD	2687.39	19.50	227.91	2657.00	213.82	-143.32	-158.68	213.82	227.91	0.00	0.00G
Lewis Shale 2822 TVD	2862.43	19.50	227.91	2822.00	272.25	-182.49	-202.04	272.25	227.91	0.00	0.00G
7" Casing Point	2968.52	19.50	227.91	2922.00	307.66	-206.22	-228.32	307.66	227.91	0.00	0.00G
Begin Natural Drop	2970.10	19.50	227.91	2923.49	308.19	-206.58	-228.71	308.19	227.91	0.00	180.00G
	3000.00	18.60	227.91	2951.75	317.95	-213.12	-235.95	317.95	227.91	3.00	180.00G
	3100.00	15.60	227.91	3047.32	347.36	-232.83	-257.77	347.36	227.91	3.00	180.00G
	3200.00	12.60	227.91	3144.30	371.72	-249.16	-275.85	371.72	227.91	3.00	180.00G
	3300.00	9.60	227.91	3242.41	390.97	-262.06	-290.14	390.97	227.91	3.00	180.00G
	3400.00	6.60	227.91	3341.40	405.07	-271.51	-300.60	405.07	227.91	3.00	180.00G
	3500.00	3.60	227.91	3441.00	413.96	-277.47	-307.20	413.96	227.91	3.00	-132.09M
	3600.00	0.60	227.91	3540.92	417.63	-279.93	-309.92	417.63	227.91	3.00	-132.09M
Begin Vertical Hole	3620.08	0.00	227.91	3561.00	417.73	-280.00	-310.00	417.73	227.91	3.00	-132.09M
Cliffhouse 4140 TVD	4199.08	0.00	227.91	4140.00	417.73	-280.00	-310.00	417.73	227.91	0.00	-132.09M
	4200.08	0.00	227.91	4141.00	417.73	-280.00	-310.00	417.73	227.91	0.00	-132.09M
Menefee Shale 4494 TVD	4553.08	0.00	227.91	4494.00	417.73	-280.00	-310.00	417.73	227.91	0.00	-132.09M
Point Lookout 4946 TVD	5005.08	0.00	227.91	4946.00	417.73	-280.00	-310.00	417.73	227.91	0.00	-132.09M
Mancos 5223 TVD	5282.08	0.00	227.91	5223.00	417.73	-280.00	-310.00	417.73	227.91	0.00	-132.09M
Greenhorn 6965 TVD	7024.08	0.00	227.91	6965.00	417.73	-280.00	-310.00	417.73	227.91	0.00	-132.09M
Bentonite Marker 7010 TVD	7069.08	0.00	227.91	7010.00	417.73	-280.00	-310.00	417.73	227.91	0.00	-132.09M
Two Wells 7063 TVD	7122.08	0.00	227.91	7063.00	417.73	-280.00	-310.00	417.73	227.91	0.00	-132.09M
Paguate 7149 TVD	7208.08	0.00	227.91	7149.00	417.73	-280.00	-310.00	417.73	227.91	0.00	-132.09M
Cubero Upper 7179 TVD	7238.08	0.00	227.91	7179.00	417.73	-280.00	-310.00	417.73	227.91	0.00	-132.09M
Cubero Lower 7199 TVD	7258.08	0.00	227.91	7199.00	417.73	-280.00	-310.00	417.73	227.91	0.00	-132.09M
PBHLTD	7342.08	0.00	227.91	7283.00	417.73	-280.00	-310.00	417.73	227.91	0.00	0.00M

Survey Type: Raw Proposal

Survey Error Model: SLB ISCWSA version 16 *** 3-D 95.00% Confidence 2.7955 sigma

Surveying Prog:

MD From (ft)

0.00

MD To (ft) EOU Freq Survey Tool Type

7342.08 1/100.00 ft SLB_MWD-STD

BLM CONDITIONS OF APPROVAL

Operator: BP America Production Company

Well Name: Mudge Com B 2M

Legal Location: 2370' FNL, 1680' FWL; sec. 14, T31N, R11W

Lease No.: NMSF 078051

Please adhere to the previously issued stipulation:

This well is located within a “venerable area”. In order to protect the integrity of the alluvium aquifer, a MINIMUM surface casing setting depth of 200’ is stipulated as a condition of approval for this APD.