

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0137  
Expires: November 30, 2000

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

5. Lease Serial No.  
NMSF078051

1a. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other			6. If Indian, Allottee or Tribe Name		
b. Type of Completion <input type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr. Other _____			7. Unit or CA Agreement Name and No.		
2. Name of Operator BP AMERICA PRODUCTION CO			8. Lease Name and Well No. MUDGE LS 24M		
3. Address P. O. BOX 3092 HOUSTON, TX 77253			9. API Well No. 30-045-30625-00-C2		
4. Location of Well (Report location clearly and in accordance with Federal requirements) Sec 33 T32N R11W Mer NMP At surface NESE Lot I 2370FSL 780FEL 36.56400 N Lat, 107.59300 W Lon At top prod interval reported below At total depth			10. Field and Pool, or Exploratory BLANCO MV / BASIN DAKOTA		
14. Date Spudded 08/27/2002			15. Date T.D. Reached 09/02/2002		
16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 12/18/2002			17. Elevations (DF, KB, RT, GL)* 6092 GL		
18. Total Depth: MD 7408 TVD		19. Plug Back T.D.: MD 7405 TVD		20. Depth Bridge Plug Set: MD TVD	
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) OTH			22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Directional Survey? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis)		

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
13.500	9.625 H-40	32.0	0	156		180		0	
8.750	7.000 J-55	20.0	0	2968		400		0	
6.250	4.500 J-55	12.0	0	7408		398		2873	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.375	7056							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) MESAVERDE	4318	5379	4318 TO 4695	0.330	54	
B)			4736 TO 4974	0.330	42	
C)			5057 TO 5379	0.330	49	
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
4318 TO 4695	93,012# OF 16/30 BRADY SAND, 70% QUALITY FOAM & N2
4736 TO 4974	78,022# OF 16/30 BRADY SAND, 70% QUALITY FOAM & N2
5057 TO 5379	101,676# OF 16/30 BRADY SAND, 70% QUALITY FOAM &

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
11/25/2002	11/25/2002	11	→	1.0	1000.0	0.0			FLows FROM WELL
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
3/4	SI	140.0	→					PGW	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
	SI		→						

**ACCEPTED FOR RECORD**

JAN 07 2003

**FARMINGTON FIELD OFFICE**

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #17167 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

**\*\* REVISED \*\* REVISED \*\* REVISED \*\* REVISED \*\* REVISED \*\* REVISED \*\* REVISED \*\***

**REMOVED**

## 28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

## 28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

29. Disposition of Gas(Sold, used for fuel, vented, etc.)  
SOLD

## 30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

## 31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
OJO ALAMO NACIMIENTO KIRTLAND	0 918	918		MESAVERDE CLIFF HOUSE MENEFE POINT LOOKOUT MANCOS GREENHORN DAKOTA	2993 4317 4707 5038 5401 7128 7183

## 32. Additional remarks (include plugging procedure):

Please see attached for daily well work subsequent report for the Mesaverde completion.  
Production down hole commingled with the Dakota.

## 33. Circle enclosed attachments:

- |   |                    |               |                       |
|---|--------------------|---------------|-----------------------|
| 1. Electrical/Mechanical Logs (1 full set req'd.)     | 2. Geologic Report | 3. DST Report | 4. Directional Survey |
| 5. Sundry Notice for plugging and cement verification | 6. Core Analysis   | 7. Other:     |                       |

## 34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

**Electronic Submission #17167 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 01/07/2003 (03AXG0518SE)**

Name (please print) MARY CORLEYTitle AUTHORIZED REPRESENTATIVE

Signature \_\_\_\_\_ (Electronic Submission)

Date 12/30/2002

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.

**\*\* REVISED \*\* REVISED \*\* REVISED \*\* REVISED \*\* REVISED \*\* REVISED \*\* REVISED \*\* REVISED \*\***

**MUDGE LS 24M  
COMPLETION SUBSEQUENT REPORT  
12/30/2002**

**11/15/2002 MIRUSU. NDWH. NU BOP. Pull TBG hanger. TOH w/prod TBG.**

**11/16/2002 TIH w/CIBP & set @ 5503'. RU & load hole w/2% KcL WTR. Pressure test CSG to 500#. Test OK.**

**11/18/2002 RU & perf Point Lookout , 120° phasing as follows, .330 inch diameter:**

**2 JSPF 17 Shots / 34 Holes: 5379', 5357', 5342', 5332', 5320', 5308', 5296', 5288', 5281', 5262', 5234', 5224', 5205', 5199', 5187', 5179', 5172'**

**1 JSPF 7 Shots / 7 Holes: 5152', 5144', 5133', 5126', 5120', 5101', 5090'**

**2 JSPF 4 Shots / 8 Holes: 5079', 5072', 5064', 5057'**

**RU & Frac w/101,6760# of 16/30 Brady Sand, 70% Quality Foam & N2. RU, TIH & set CIBP @, 5014". RU & perf Menefee, 120° phasing as follows: .330 inch diameter, 2 JSPF 21 Shots / 42 Holes**

**4974', 4968', 4952', 4942', 4931', 4924', 4920', 4907', 4886', 4881', 4871', 4867', 4852', 4833', 4825', 4795', 4776', 4753', 4746', 4741', 4736'**

**RU & Frac w/78,022# of 16/30 Brady Sand, 70% Quality Foam & N2. RU, TIH & set CIBP @, 4726'. RU & Cliffhouse, 120° phasing as follows: .330 inch diameter:**

**1 JSPF 14 Shots / 14 Holes: 4695', 4686', 4666', 4658', 4641', 4630', 4612', 4607', 4590', 4572', 4560', 4549', 4546', 4542'**

**2 SPF 20 Shots / 40 Holes: 4532', 4528', 4505', 4483', 4477', 4472', 4464', 4453', 4447', 4418', 4414', 4404', 4391', 4378', 4368', 4360', 4354', 4344', 4331', 4318'**

**RU & Frac w/93,012# of 16/30 Brady Sand, 70% Quality Foam & N2. Shut In Well.**

**11/19/2002 ND Frac & NU Flow back head. Open well on ¼" choke & flow back for 8 hrs. Upsized choke to ½" & flowed back for 8 hrs.**

**11/20/2002 @ 00.00 hrs upsized choke to ¾" & flowed back for 8 hrs. SI Well. TIH & tag fill @ 4664'. C/O to CIBP @ 4726'. Mill up CIBP. PU above perfs & flow back well thru ¾" choke.**

**11/21/2002 Flowed back thru ¾" choke. TIH & tag fill @ 4965'. C/O to CIBP set @ 5014'. Mill up CIBP & circ hole clean. TIH & tag fill @ 5473'. C/O to CIBP set @ 5503'. RU & flow back thru ¾" choke.**

**11/22/2002 Flow back well thru ¾" choke. TIH & tag 38' of fill. C/O to CIBP. PU above perfs & flow back thru ¾" choke. SI well.**

**Well shut in for 51 hrs.**

**11/24/2002 Flow back well thru ¾" choke to pit.**

**11/25/2002 RU & Flow test well for 11 hrs. thru ¾" choke. 1000 MCF gas, FCP 140#, Trace WTR, Trace oil. SI Well. TIH & tag 20' of fill. C/O to CIBP. Mill out CIBP. TIH & tag fill @ 7331'. PU above perfs & flow back thru ¾" choke.**

11/26/2002. Flow well to pit thru ¾" choke. TIH & tag fill @ 7331'. TOH & SDFN.

11/27/2002 TIH w/mill & mill on CIBP hung up @ 7331'. Unable to make headway. PU above perfs & SDFN.

11/29/2002 TIH w/new mill & mill on CIBP. Torquing – SDFN.

12/03/2002 TIH & mill on CIBP. Made 20' of progress. SDFN.

12/04/2002 TIH & try to establish circ. Moving up hole TBG parted. Tag fish & TOH w/TBG. SDFN.

12/05/2002 TIH w/overshot & TBG, latch onto fish & run freepoint. Stopped @ 6762'. Had good torque & pipe free @ this point. Start to TIH w/cutter - SDFN.

12/06/2002 Blow down well & kill w/KcL WTR. RIH w/chemical cutter – unable to get down. PU cutter. RIH w/jet cutter & made cut @ 6721'. RD wireline & TOH. Open well full to relieve pressure.

12/07/2002 Blow down well. PU above perfs & SDFN.

12/09/2002 PU workstring. Unable to get freepoint down. Run cutter & made cut @ 7005'. TOH & SDFN.

12/10/2002 TOH w/TBG & cutoff. TIH w/overshot & workover fish. Unable to get cutter past overshot. PU & SDFN.

12/11/2002 Unable to work stuck TBG. Unable to release overshot. TU & ran string shot – still would not release. RU cutter & cut off TBG 10' above overshot. TOH. TIH w/jars & SDFN.

12/12/2002 TIH & latch onto fish. Jar on fish. Continued jarring on fish and maintain circ on hole overnight.

12/13/2002 Continued jarring on fish until broke loose. TOH. Had to kill well 3 times. TOH w/10' cutoff, old overshot, & fish. SDFN.

12/14/2002 TIH w/overshot & jars – trying to work over fish. TOH & SDFN.

12/16/2002 Kill well. TIH to 7084'. Work washpipe over fish – made 2'. TOH, Secure well & SDFN.

12/17/2002 Blow down well. Kill well. TOH w/TBG, collars, washpipe & shoe. TIH w/ new shoe, wash pipe, collars & TBG. Circ hole & work washover shoe onto fish – made only 1'. PU to 2700'. Secure well & SDFN.

12/18/2002 Blow down well. Kill w/2% KcL WTR. TOH w/TBG, collars, & washpipe. TIH w/workstring. Drain pump & lines, secure well & TBG – SDFN.

**12/19/2002 Blow down well. Kill w/2% KcL WTR. RU & TIH w/BHA & TBG plug. TIH w/ 2 3/8" production TBG & land @ 7056'. ND BOP. NUWH. Pull TBG plug.**

**12/20/2002 RD & MOSU. Rig Release @ 09:00 hrs.**