

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 ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr. Other _____			6. If Indian, Allottee or Tribe Name 7. Unit or CA Agreement Name and No.		
2. Name of Operator BP AMERICA PRODUCTION CO Contact: MARY CORLEY E-Mail: corleyml@bp.com			8. Lease Name and Well No. MUDGE LS 22M		
3. Address P. O. BOX 3092 HOUSTON, TX 77253			3a. Phone No. (include area code) Ph: 281.366.4491		
4. Location of Well (Report location clearly and in accordance with Federal requirements)* Sec 4 T31N R11W Mer NMP At surface SESE 1120FSL 860FEL At top prod interval reported below At total depth			9. API Well No. 30-045-30757-00-C1		
14. Date Spudded 12/22/2002			15. Date T.D. Reached 12/31/2002		
16. Date Completed ☐ D & A ☒ Ready to Prod. 01/31/2003			10. Field and Pool, or Exploratory BLANCO MV / BASIN DAKOTA 11. Sec., T., R., M., or Block and Survey or Area Sec 4 T31N R11W Mer NMP		
18. Total Depth: MD 7348 TVD			19. Plug Back T.D.: MD 7345 TVD		
20. Depth Bridge Plug Set: MD TVD			12. County or Parish SAN JUAN		
13. State NM			17. Elevations (DF, KB, RT, GL)* 6075 GL		
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) CBL OTH			22. Was well cored? ☒ No ☐ Yes (Submit analysis) Was DST run? ☒ No ☐ Yes (Submit analysis) Directional Survey? ☒ No ☐ 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	237		130		0	
8.750	7.000 J-55	20.0	0	3149		390		0	
6.250	4.500 J-55	12.0	0	7348		366		3700	

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	7303							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) DAKOTA	7179	7334	7179 TO 7334	0.330	60	
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
7179 TO 7334	63,1663# OF 20/40 RESIN SAND & SLICKWATER

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
01/20/2003	01/20/2003	12	→	1.0	543.0	20.0			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	75.0	→					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		→						

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

ELECTRONIC SUBMISSION #18292 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

**** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ****

NMOCD

ACCEPTED FOR RECON

FEB 11 2003

FARMINGTON FIELD OFFICE

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.)
FLARED

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 1063	1063		LEWIS SHALE CLIFF HOUSE MENEFE POINT LOOKOUT MANCOS DAKOTA	3043 4273 4600 5035 5400 7118

32. Additional remarks (include plugging procedure):

Dakota completion. Well is downhole commingled with the Mesaverde. Please see attached Well Completion Subsequent Report.

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 #18292 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 02/11/2003 (03AXG0703SE)

Name (please print) MARY CORLEY

Title AUTHORIZED REPRESENTATIVE

Signature (Electronic Submission)

Date 02/05/2003

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 22M
COMPLETION SUBSEQUENT REPORT
02/05/2003**

01/03/2003 RU & run CBL & TDT log. RU & pressure test CSG to 3000# test ok. Estimated TOC @ 3700'

01/07/2003 RU & Perf the Dakota with 2 SPF, 120° phasing as follows: .330 inch diameter, 30 Shots / 60 Holes

7334', 7328', 7324', 7321', 7315', 7312', 7307', 7300', 7294', 7282', 7276', 7270', 7266',
7256', 7252', 7249', 7245', 7242', 7237', 7230', 7223', 7217', 7211', 7208', 7204', 7198',
7191', 7187', 7184', 7179'

01/09/2003 RU & Frac w/63,1663# of 20/40 Resin Sand & Slickwater. SI well for night.

01/14/2003 ND BOP & Frac Valve. NU Flow back cross & BOP. SI well for night.

01/15/2003 Flow back well thru 3" line.

01/16/2003 TIH & attempt to C/O. Unable to make progress – torqueing. TIH w/mill & TBG. RU & flow well to pit.

01/17/2003 Flow well to pit. TIH & tag fill @ 7181'. Mill down to 7191'. TOH. Stabilize well & SDFN.

01/18/2003 Blow down well. TIH & tag fill @ 7191'. C/O & mill to 7197'. C/O & PU above perms, stabilize well & SDFN

01/20/2003 Blow down well. C/O wellbore PBTD @ 7345'. PU above perms & flow test well for 12 hrs. thru 3/4" choke. 543 MCF gas, FCP 625#. 20 BBLS WTR, trace oil.

END OF DAKOTA COMPLETION.

BEGIN MESAVERDE COMPLETION.

01/21/2003 RU & TIH w/CIBP & set @ 7050'. RU & load hole w/2% KcL WTR. RU & perf Point Lookout & Menefee, 120° phasing as follows, .330 inch diameter, 2 JSPF 33 Shots / 66 Holes

5310', 5272', 5253', 5240', 5229', 5220', 5195', 5158', 5153', 5130', 5125', 5112', 5108',
5102', 5095', 5088', 5082', 5074', 5070', 5064', 5057', 5051', 5044', 5039', 5035', 5017',
5004', 4980', 4944', 4924', 4917', 4911', 4906'

01/22/2003 RU & Frac w/84,377# of 16/30 Brady Sand, 70% Quality Foam & N2. RU, TIH & set CIBP @, 4870'. RU & perf Menefee & Cliffhouse, 120° phasing as follows: .330 inch diameter, 2 JSPF 34 Shots / 68 Holes

4837', 4830', 4826', 4800', 4778', 4773', 4769', 4759', 4627', 4597', 4590', 4578', 4572',
4562', 4555', 4546', 4530', 4518', 4510', 4504', 4472', 4439', 4434', 4422', 4413', 4405',
4397', 4387', 4374', 4363', 4324', 4299', 4286', 4278'

RU & Frac w/81,036# of 16/30 Brady Sand, 70% Quality Foam & N2. ND Frac & NU Flow back head. Open well on ¼" choke. After 8 hrs. upsized to ½" & flow back overnight. Flowing pure N2.

01/23/2003 Flowed back well thru ½" choke. @ 14:00 hrs upsized choke to ¾" & flowed back 8 hrs – pure N2. Upsized choke to ¾" & flowed back to pit.

01/24/2003 TIH & tag fill @ 4737'. C/O to CIBP set @ 4870'. DO CIBP. PU above perms & flow back well to C/O. TIH & tag fill @ 5184'. PU above perms & flow back well thru ¾" choke w/watchman.

01/27/2003 Flow back well thru ¾" choke. TIH & tag fill @ 7023'. C/O to CIBP set @ 7050'. Circ hole clean. PU above perms & flow test well for 12 hrs. thru ¾" choke. 866 MCF gas, FCP 105#, Trace WTR, Trace oil.

01/28/2003 TIH & tag fill @ 6983'. C/O to CIBP set @ 7050'. Mill out CIPB & chase Downhole to PBTD @ 7345'. Circ hole clean. RU & flow back well thru ¾" choke overnight.

01/29/2003 TIH & tag fill @ 7312' C/O & circ hole clean to PBTD. TIH & tag 8' of fill. Secure well & SDFN.

01/30/2003 TIH & tag fill @ 7339' C/O to PBTD. PU above perms & flow back thru ¾" choke to pit.

01/31/2003 RU & TIH w/BHA & TBG plug. TIH w/ 2 3/8" production TBG & land @ 7303'. ND BOP. NUWH. Pull TBG plug. RD & MOSU. Rig Release @ 09:00 hrs.