

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

FORM APPROVED

OMB NO. 1004-0137

Expires: November 30, 2000

RCVD FEB 2007
FED. CONS. DIV.

DIST. 8

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other
b. Type of Completion: ☐ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.
Other

2. Name of Operator

BP America Production Company Attn: Kristina Hurts

3. Address

P.O. Box 3092 Houston, TX 77253

3a. Phone No. (include area code)

281-366-3866

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

At surface **1640' FNL & 1200' FWL**

At top prod. Interval reported below

At total depth **1678' FNL & 1833' FWL**

5. Lease Serial No.

SF - 078194

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

8. Lease Name and Well No.

LUDWICK LS 20M

9. API Well No.

30-045-32920

10. Field and Pool, or Exploratory

Blanco Mesaverde

11. Sec., T., R., M., on Block & Survey or Area

Sec 29 T30N R10W

12. County or Parish

San Juan

13. State

NM

14. Date Spudded

4/15/2006

15. Date T.D. Reached

5/28/2006

16. Date Completed

☐ D & A ☒ Ready to Prod.

1/29/2007

17. Elevations (DF, RKB, RT, GL)*

6100' GL

18. Total Depth: MD

7241

19. Plug Back T.D.: MD

7225

20. Depth Bridge Plug Set: MD

TVD

TVD **7175**

TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)

CBL

22. Was well cored? ☒ No ☐ Yes (Submit analysis)

Was DST run? ☒ No ☐ Yes (Submit report)

Directional Survey? ☐ No ☐ Yes (Submit report)

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

Hole Size	Size/Grade	Wt. (#/ft)	Top (MD)	Bottom (MD)	Stage Cement Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12 1/4"	9 5/8" H-40	32.3	0	282'		385		0	
8 3/4"	7" J-55 & N-80	20 & 23#	0	4554'		440		0	
6 1/4"	4.5" P-110	11.6	0'	7233'		271		6600'	
								4470'	

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 3/8"	4950'							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf Status
A) Blanco Mesaverde	4570'	5246'	4570' - 5246'	3.125"		
B)						
C)						
D)						

26. Perforation Record

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

Depth Interval	Amount and Type of Material
4960' - 5246'	151,562# 16/30 Brady Sand & 70% Q Foam & N2
4570' - 4896'	118,000# of 16/30 Brady Sand & 70% Q Foam & N2

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
	1/29/07	12	→	trace	1922 MCF	trace			Flows
Choke Size	Tbg. Press Flwg. SI	Csg. Press.	24 hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	
3/4"		250	→						

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
			→						ACCEPTED FOR RECORD
Choke Size	Tbg. Press Flwg. SI	Csg. Press.	24 hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	
			→						FEB 01 2007

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

FARMINGTON FIELD OFFICE

NMOCD

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	1 bg. 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	1 bg. 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.)

Vented / Sold

30. Summary of Porous Zones (Included 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
				B Navajo City	4317'
				Chacro Otero	3649'
				Otro 2	3772'
				Cliffhouse - E	4128'
				Cliffhouse	4317'
				Menefee	4429'
				Pt. Lookout	4953'
				Mancos	5322'
				Greenhorn	6898'
				Graneros	6938'
				Dakota	7284'
				Paguate	7069'
				Upper Cubero	7123'
				Encinal Canyon	7198'

32. Additional Remarks (including plugging procedure)

1/3/2007 Bridge Plug over the DK perfs and well is capable of producing from the Mesaverde only.

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 | 3. Other: | |

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

Name (please print) **Cherry Hlava**Title **Regulatory Analyst**

Signature

*Cherry Hlava*Date **1/29/2007**

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.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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.*

FORM APPROVED
OMB No. 1004-0135
Expires November 30, 2000

5. Lease Serial No.
SF - 078194

6. If Indian, Allottee or tribe Name

7. If Unit or CA/Agreement, Name and/or No.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No.
Ludwick LS 20M

2. Name of Operator
BP America Production Company Attn: Cherry Hlava

9. API Well No.
30-045-32920

3a. Address
P.O. Box 3092 Houston, TX 77253

3b. Phone No. (include area code)
281-366-4081

10. Field and Pool, or Exploratory Area
Blanco Mesaverde

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SWNW 1640' FNL & 1200' FWL Sec. 29 T30N, R10W

11. County or Parish, State
San Juan County, New Mexico

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

TYPE OF SUBMISSION

☐ Notice of Intent

☒ Subsequent Report

☐ Final Abandonment Notice

TYPE OF ACTION

☐ Acidize

☐ Deepen

☐ Production (Start/Resume)

☐ Water shut-Off

☐ Alter Casing

☐ Fracture Treat

☐ Reclamation

☐ Well Integrity

☐ Casing Repair

☐ New Construction

☐ Recomplete

☒ Other **Subsequent Report**

☐ Change Plans

☐ Plug and Abandon

☐ Water Disposal

☐ Convert to Injection ☐ Plug Back

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 recompleat 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 recompleat 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.

1/3/04 TIH & SET CIBP @ 6850' OVER DK PERFS.

1/4/07 PRESSURE TST CSG & CIBP @ 6850' to 1000# OK. RUN CBL TO 6850' - 4470' w 1000# PRES: FOUND GOOD CMT BOND.

1/10/07 PRES TST 4.5" 11.6# P-110 CSG TO 7300 PSI. HELD PRES OK. BLED DN PRES TO 4500 PSI.

1/11/07 TIH w 3.125" GUN & PERF 1" STAGE MV 4960' - 5246' w 4 JSPF.

1/15/07 FRAC 1" STAGE DN CSG @ 70 bbls/min. using 151.562# 16/30 BRADY SND & 70% Q FOAM & N2. SET COMPOSITE FLW THROUGH BP @ 4930'. TIH w 3.125" GUN & PERF 4570' - 4896' w 4 JSPF.

1/22/07 TIH & FRAC UPPER PERFS w 118,000# 16/30 BRADY SND & 70% Q FOAM & N2.

1/23/07 PRES TST BOP 2500# HIGH & 250# LOW: OK. FLOW TSTING & CLEAN OUT.

1/29/07 TEST 1921 MCF 12 hrs. TIH LAND TBG @ 4950'

WELL CAPABLE OF PRODUCING MV ONLY.

14. I hereby certify that the foregoing is true and correct
Name (Printed/typed)

Cherry Hlava

Title **Regulatory Analyst**

Signature

Cherry Hlava

Date **01/29/07**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

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

ACCEPTED FOR RECORD

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.

FARMINGTON FIELD OFFICE