

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 - 077123

6. If Indian, Allottee or tribe Name

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

8. Well Name and No.
Warren LS 3

9. API Well No.
30-045-07435

10. Field and Pool, or Exploratory Area
Blanco Mesaverde & Aztec Pictured Cliffs

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

SUBMIT IN TRIPLICATE – Other instructions on reverse side

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

2. Name of Operator
BP America Production Company Attn: Mary Corley

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

3b. Phone No. (include area code)
281-366-4491

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1550' FSL & 1090' FWL ~~Sec 32 T28N R08W~~ Sec 13, T28N, R9W

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

☐ Alter Casing

☐ Casing Repair

☐ Change Plans

☐ Convert to Injection

☐ Deepen

☐ Fracture Treat

☐ New Construction

☐ Plug and Abandon

☐ Plug Back

☐ Production (Start/Resume)

☐ Reclamation

☐ Recomplete

☐ Water Disposal

☐ Water shut-Off

☐ Well Integrity

Other

Downhole Commingle

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.

BP America Production Company request permission to convert the subject well from a dual string completion to a single string completion, add pay in the Mesaverde formation, and commingle production downhole from the Aztec Pictured Cliffs & Blanco Mesaverde Pools as per the attached procedure. The Aztec Pictured Cliffs (71280) & the Blanco Mesaverde (72319) Pools are Pre-Approved Pools for Downhole Commingling per NMOCd order R-11363. The working, overriding, and royalty interest owners in the proposed commingled pools are identical; therefore, no notification of this application need be submitted via certified mail. Production is proposed to be allocated based on the subtraction method using the projected future decline for production from the Pictured Cliffs since our intent is to add pay and frac the Mesaverde Pool. The balance of the production will be attributed to the Mesaverde. Attached is the future production decline for the Pictured Cliffs. Commingling Production Downhole in the subject well from the proposed Pools with not reduce the value of the total remaining production.

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

Mary Corley

Title **Senior Regulatory Analyst**

Signature

Date **04/17/2002**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

/s/ Jim Lovato

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

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.

Warren LS #3 Procedure

Procedure:

1. Check anchors. MIRU workover rig.
2. Check and record tubing, casing, and bradenhead pressures.
3. Blow down wellhead. Kill with 2% KCL water ONLY if necessary.
4. Nipple down WH. NU BOPs.
5. TOH and LD 1-1/4" short string production tubing currently set at 2284'.
6. Release packer and TOH with 2-3/8" long string production tubing currently set at 4633'.
7. TIH with 5-1/2" casing scraper to 4475'.
8. RU WL unit. RIH with 5-1/2" CIBP. Set CIBP at 4460'. Load hole with 2% KCL and pressure test casing to 2500 psi.
9. RIH with 3-1/8" casing guns with Schlumberger's Prospector charge. Perforate Menefee formation.
10. RU frac equipment and install wellhead isolation tool. Use 2% KCL/N2 foam in fracture stimulation.
11. Spearhead 500 gal 15% HCL, establish injection rate, and proceed with fracture stimulation according treating schedule.
12. Flowback frac immediately.
13. TIH with tubing and bit. Cleanout fill and drill bridge plug set at 4460'. Cleanout fill to PBTD at 4700'. Blow well dry at PBTD.
14. RIH with 2-3/8" production tubing.
15. Land 2-3/8" production tubing at 4600'.
16. ND BOP's. NU WH. Test well for air. Return well to production.

Warren LS #3
Sec 13, T28N, R9W
API # 30-045-07435

GL: 5885'

History:
Completed as MV/PC dual in Nov 1957

1-1/4" tubing @ 2284'

Pictured Cliffs Perforations
2226' - 2284' w/ 40,000# sand

Baker 'EGJ' packer @ 2377'

Mesaverde Perforations
PL: 4484' - 4672' w/ 60,000# sand

est. TOC @ surface (circ)
10-3/4" 32.75# Armco SW @ 252'
200 sxs cmt (circulated)

Est. TOC @ 1175' (temp surv)

Garrett sleeve (upside down) @ 2281'

5-1/2" liner hanger @ 2299

7" 26#, J55 @ 2393'
250 sxs cmt

Est. TOC @ 4000' (temp surv)

Tubing: 2-3/8" 4.7#, J55 @ 4633'

5-1/2" liner, 15.5#, J55 @ 4719'
300 sxs cmt

PBTD: 4700'

NOTES:

updated: 1/22/02 jad

WARREN LS 3
FUTURE PRODUCTION DECLINE ESTIMATE
(MONTHLY 2.47%)

PERCEIVED CURVES

Month	Gas Volume
Jan-2001	0
Feb-2001	0
Mar-2001	0
Apr-2001	0
May-2001	0
Jun-2001	0
Jul-2001	0
Aug-2001	0
Sep-2001	0
Oct-2001	0
Nov-2001	0
Dec-2001	156
Jan-2002	146
Feb-2002	139
Mar-2002	132
Apr-2002	150
May-2002	160
Jun-2002	155
Jul-2002	151
Aug-2002	146
Sep-2002	142
Oct-2002	137
Nov-2002	133
Dec-2002	129
Jan-2003	125
Feb-2003	122
Mar-2003	118
Apr-2003	114
May-2003	111
Jun-2003	108
Jul-2003	104
Aug-2003	101
Sep-2003	98
Oct-2003	95
Nov-2003	92
Dec-2003	90

$\ln(Q_i/Q_0) = -dt$
 $Q_i = 156 \text{ MCFD (12/2001)}$
 $Q_0 = 150 \text{ MCFD (04/2002)}$
 $t = 4 \text{ months (.33333 yrs)}$
 $d = 0.32 \text{ annual decline}$
 $0.027 \text{ monthly decline (0.32/12)}$

~~Corrected Volumes~~
 ~~$150/156 = .96154$~~
 ~~$.96154 * 3833 = .32051$~~
 ~~$.32051/12 = .026709$~~
~~Well Returned to Production~~

2.67% Monthly Decline

Month	Gas Volume
Jan-2004	88
Feb-2004	85
Mar-2004	83
Apr-2004	81
May-2004	79
Jun-2004	76
Jul-2004	74
Aug-2004	72
Sep-2004	71
Oct-2004	69
Nov-2004	67
Dec-2004	65
Jan-2005	63
Feb-2005	62
Mar-2005	60
Apr-2005	58
May-2005	57
Jun-2005	55
Jul-2005	54
Aug-2005	52
Sep-2005	51
Oct-2005	50
Nov-2005	48
Dec-2005	47
Jan-2006	46
Feb-2006	44
Mar-2006	43
Apr-2006	42
May-2006	41
Jun-2006	40
Jul-2006	39
Aug-2006	38
Sep-2006	37
Oct-2006	36
Nov-2006	35
Dec-2006	34

Month	Gas Volume
Jan-2007	34
Feb-2007	34
Mar-2007	34
Apr-2007	33
May-2007	33
Jun-2007	33
Jul-2007	33
Aug-2007	33
Sep-2007	33
Oct-2007	33
Nov-2007	33
Dec-2007	33
Jan-2008	32
Feb-2008	32
Mar-2008	32
Apr-2008	32
May-2008	32
Jun-2008	32
Jul-2008	32
Aug-2008	32
Sep-2008	32
Oct-2008	31
Nov-2008	31
Dec-2008	31
Jan-2009	31
Feb-2009	31
Mar-2009	31
Apr-2009	31
May-2009	31
Jun-2009	31
Jul-2009	30
Aug-2009	30
Sep-2009	30
Oct-2009	30
Nov-2009	30
Dec-2009	30

Month	Gas Volume
Jan-2010	30
Feb-2010	30
Mar-2010	30
Apr-2010	30
May-2010	29
Jun-2010	29
Jul-2010	29
Aug-2010	29
Sep-2010	29
Oct-2010	29
Nov-2010	29
Dec-2010	29
Jan-2011	29
Feb-2011	29
Mar-2011	28
Apr-2011	28
May-2011	28
Jun-2011	28
Jul-2011	28
Aug-2011	28
Sep-2011	28
Oct-2011	28
Nov-2011	28
Dec-2011	28
Jan-2012	27
Feb-2012	27
Mar-2012	27
Apr-2012	27
May-2012	27
Jun-2012	27
Jul-2012	27
Aug-2012	27
Sep-2012	27
Oct-2012	27
Nov-2012	27
Dec-2012	26

Month	Gas Volume
Jan-2013	26
Feb-2013	26
Mar-2013	26
Apr-2013	26
May-2013	26
Jun-2013	26
Jul-2013	26
Aug-2013	26
Sep-2013	26
Oct-2013	26
Nov-2013	26
Dec-2013	25
Jan-2014	25
Feb-2014	25
Mar-2014	25
Apr-2014	25
May-2014	25
Jun-2014	25
Jul-2014	25
Aug-2014	25
Sep-2014	25
Oct-2014	25
Nov-2014	25
Dec-2014	25
Jan-2015	25
Feb-2015	24
Mar-2015	24
Apr-2015	24
May-2015	24
Jun-2015	24
Jul-2015	24
Aug-2015	24
Sep-2015	24
Oct-2015	24
Nov-2015	24
Dec-2015	24

Month	Gas Volume
Jan-2016	24
Feb-2016	24
Mar-2016	24
Apr-2016	23
May-2016	23
Jun-2016	23
Jul-2016	23
Aug-2016	23
Sep-2016	23
Oct-2016	23
Nov-2016	23
Dec-2016	23
Jan-2017	23
Feb-2017	23
Mar-2017	23
Apr-2017	23
May-2017	23
Jun-2017	22
Jul-2017	22
Aug-2017	22
Sep-2017	22
Oct-2017	22
Nov-2017	22
Dec-2017	22
Jan-2018	22
Feb-2018	22
Mar-2018	22
Apr-2018	22
May-2018	22
Jun-2018	22
Jul-2018	22
Aug-2018	22
Sep-2018	21
Oct-2018	21
Nov-2018	21
Dec-2018	21

Month	Month
Jan-2019	Jan-2019
Feb-2019	Feb-2019
Mar-2019	Mar-2019
Apr-2019	Apr-2019
May-2019	May-2019
Jun-2019	Jun-2019
Jul-2019	Jul-2019
Aug-2019	Aug-2019
Sep-2019	Sep-2019
Oct-2019	Oct-2019
Nov-2019	Nov-2019
Dec-2019	Dec-2019
Jan-2020	Jan-2020
Feb-2020	Feb-2020
Mar-2020	Mar-2020
Apr-2020	Apr-2020
May-2020	May-2020
Jun-2020	Jun-2020
Jul-2020	Jul-2020
Aug-2020	Aug-2020
Sep-2020	Sep-2020
Oct-2020	Oct-2020
Nov-2020	Nov-2020
Dec-2020	Dec-2020
Jan-2021	Jan-2021
Feb-2021	Feb-2021
Mar-2021	Mar-2021
Apr-2021	Apr-2021
May-2021	May-2021
Jun-2021	Jun-2021
Jul-2021	Jul-2021
Aug-2021	Aug-2021
Sep-2021	Sep-2021
Oct-2021	Oct-2021
Nov-2021	Nov-2021
Dec-2021	Dec-2021

Gas Volume	Month	Gas Volume	Month	Gas Volume	Month	Gas Volume	Month
21	Jan-2022	18	Jan-2025	15	Jan-2028	12	Jan-2031
21	Feb-2022	18	Feb-2025	15	Feb-2028	12	Feb-2031
21	Mar-2022	18	Mar-2025	15	Mar-2028	12	Mar-2031
21	Apr-2022	17	Apr-2025	15	Apr-2028	12	Apr-2031
21	May-2022	17	May-2025	14	May-2028	12	May-2031
21	Jun-2022	17	Jun-2025	14	Jun-2028	12	Jun-2031
21	Jul-2022	17	Jul-2025	14	Jul-2028	12	Jul-2031
20	Aug-2022	17	Aug-2025	14	Aug-2028	12	Aug-2031
20	Sep-2022	17	Sep-2025	14	Sep-2028	12	Sep-2031
20	Oct-2022	17	Oct-2025	14	Oct-2028	12	Oct-2031
20	Nov-2022	17	Nov-2025	14	Nov-2028	12	Nov-2031
20	Dec-2022	17	Dec-2025	14	Dec-2028	12	Dec-2031
20	Jan-2023	17	Jan-2026	14	Jan-2029	12	Jan-2032
20	Feb-2023	17	Feb-2026	14	Feb-2029	12	Feb-2032
20	Mar-2023	16	Mar-2026	14	Mar-2029	11	Mar-2032
20	Apr-2023	16	Apr-2026	14	Apr-2029	11	Apr-2032
20	May-2023	16	May-2026	14	May-2029	11	May-2032
19	Jun-2023	16	Jun-2026	14	Jun-2029	11	Jun-2032
19	Jul-2023	16	Jul-2026	13	Jul-2029	11	Jul-2032
19	Aug-2023	16	Aug-2026	13	Aug-2029	11	Aug-2032
19	Sep-2023	16	Sep-2026	13	Sep-2029	11	Sep-2032
19	Oct-2023	16	Oct-2026	13	Oct-2029	11	Oct-2032
19	Nov-2023	16	Nov-2026	13	Nov-2029	11	Nov-2032
19	Dec-2023	16	Dec-2026	13	Dec-2029	11	Dec-2032
19	Jan-2024	16	Jan-2027	13	Jan-2030	11	Jan-2033
19	Feb-2024	16	Feb-2027	13	Feb-2030	11	Feb-2033
19	Mar-2024	16	Mar-2027	13	Mar-2030	11	Mar-2033
19	Apr-2024	15	Apr-2027	13	Apr-2030	11	Apr-2033
18	May-2024	15	May-2027	13	May-2030	11	May-2033
18	Jun-2024	15	Jun-2027	13	Jun-2030	11	Jun-2033
18	Jul-2024	15	Jul-2027	13	Jul-2030	11	Jul-2033
18	Aug-2024	15	Aug-2027	13	Aug-2030	11	Aug-2033
18	Sep-2024	15	Sep-2027	13	Sep-2030	11	Sep-2033
18	Oct-2024	15	Oct-2027	13	Oct-2030	10	Oct-2033
18	Nov-2024	15	Nov-2027	12	Nov-2030	10	Nov-2033
18	Dec-2024	15	Dec-2027	12	Dec-2030	10	Dec-2033

[illegible]