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District IV
1220 S. St. Francis Dr., Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised March 25, 1999

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO.
30-045-07435
5. Indicate Type of Lease STATE FEE
6. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		7. Lease Name or Unit Agreement Name: Warren LS (Also filed on BLM Form 3160-5 Federal Lease SF - 077123)
1. Type of Well: Oil Well ☐ Gas Well ☒ Other	2. Name of Operator BP America Production Company Attn: Mary Corley	8. Well No. 3
3. Address of Operator P.O. Box 3092 Houston, TX 77253	9. Pool name or Wildcat Blanco Mesaverde/Aztec Pictured Cliffs	
4. Well Location Unit Letter E 1550 feet from the South line and 1090 feet from the West line Section 13 Township 28N Range 09W NMPM San Juan County 10. Elevation (Show whether DR, RKB, RT, GR, etc.) 5948' GR		

11. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPLETION ☐

OTHER: Downhole Commingle ☒

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐
CASING TEST AND CEMENT JOB ☐

OTHER: ☐

12. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

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. That production shall serve as a base for production subtracted from the total production or the commingled well. 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.

0450743A2

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Mary Corley TITLE Sr. Regulatory Analyst DATE 04/17/2001
Type or print name Mary Corley Telephone No. 281-366-4491

(This space for State use)

APPROVED BY [Signature] TITLE DEPUTY SEC. & ASST. DIR. DATE APR 26 2001
Conditions of approval, if any:

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

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

Baker 'EGJ' packer @ 2377'

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

1-1/4" tubing @ 2284'

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 harger @ 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 Pictured Cliffs
(Monthly Factor .267%)

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	150
Jun-2002	150
Jul-2002	150
Aug-2002	150
Sep-2002	150
Oct-2002	150
Nov-2002	150
Dec-2002	150
Jan-2003	150
Feb-2003	150
Mar-2003	149
Apr-2003	149
May-2003	149
Jun-2003	149
Jul-2003	149
Aug-2003	149
Sep-2003	149
Oct-2003	149
Nov-2003	149
Dec-2003	145

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

Corrected Volumes
 $150/156 = .96154$
 $.96 * .3333 = .32048$
 0.026706667
Well Returned to Production

Month	Gas Volume
Jan-2004	141
Feb-2004	137
Mar-2004	134
Apr-2004	130
May-2004	127
Jun-2004	123
Jul-2004	120
Aug-2004	117
Sep-2004	114
Oct-2004	111
Nov-2004	108
Dec-2004	105
Jan-2005	102
Feb-2005	99
Mar-2005	97
Apr-2005	94
May-2005	91
Jun-2005	89
Jul-2005	87
Aug-2005	84
Sep-2005	82
Oct-2005	80
Nov-2005	78
Dec-2005	76
Jan-2006	74
Feb-2006	72
Mar-2006	70
Apr-2006	68
May-2006	66
Jun-2006	64
Jul-2006	63
Aug-2006	61
Sep-2006	59
Oct-2006	58
Nov-2006	56
Dec-2006	55

Month	Gas Volume
Jan-2007	54
Feb-2007	54
Mar-2007	54
Apr-2007	54
May-2007	54
Jun-2007	54
Jul-2007	53
Aug-2007	53
Sep-2007	53
Oct-2007	53
Nov-2007	53
Dec-2007	52
Jan-2008	52
Feb-2008	52
Mar-2008	52
Apr-2008	52
May-2008	52
Jun-2008	51
Jul-2008	51
Aug-2008	51
Sep-2008	51
Oct-2008	51
Nov-2008	50
Dec-2008	50
Jan-2009	50
Feb-2009	50
Mar-2009	50
Apr-2009	50
May-2009	49
Jun-2009	49
Jul-2009	49
Aug-2009	49
Sep-2009	49
Oct-2009	49
Nov-2009	48
Dec-2009	48

Warren LS 3
Future Production Decline Estimate Pictured Cliffs
(Monthly Factor .267%)

Month	Gas Volume
Jan-2010	48
Feb-2010	48
Mar-2010	48
Apr-2010	48
May-2010	47
Jun-2010	47
Jul-2010	47
Aug-2010	47
Sep-2010	47
Oct-2010	47
Nov-2010	46
Dec-2010	46
Jan-2011	46
Feb-2011	46
Mar-2011	46
Apr-2011	46
May-2011	46
Jun-2011	45
Jul-2011	45
Aug-2011	45
Sep-2011	45
Oct-2011	45
Nov-2011	45
Dec-2011	44
Jan-2012	44
Feb 2012	44
Mar-2012	44
Apr-2012	44
May-2012	44
Jun-2012	44
Jul-2012	43
Aug-2012	43
Sep-2012	43
Oct-2012	43
Nov-2012	43
Dec-2012	43

Month	Gas Volume
Jan-2013	42
Feb-2013	42
Mar-2013	42
Apr-2013	42
May-2013	42
Jun-2013	42
Jul-2013	42
Aug-2013	42
Sep-2013	41
Oct-2013	41
Nov-2013	41
Dec-2013	41
Jan-2014	41
Feb-2014	41
Mar-2014	41
Apr-2014	41
May-2014	40
Jun-2014	40
Jul-2014	40
Aug-2014	40
Sep-2014	40
Oct-2014	40
Nov-2014	40
Dec-2014	40
Jan-2015	40
Feb-2015	39
Mar-2015	39
Apr-2015	39
May-2015	39
Jun-2015	39
Jul-2015	39
Aug-2015	39
Sep-2015	39
Oct-2015	38
Nov-2015	38
Dec-2015	38

Month	Gas Volume
Jan-2016	38
Feb-2016	38
Mar-2016	38
Apr-2016	38
May-2016	38
Jun-2016	38
Jul-2016	37
Aug-2016	37
Sep-2016	37
Oct-2016	37
Nov-2016	37
Dec-2016	37
Jan-2017	37
Feb-2017	37
Mar-2017	37
Apr-2017	36
May-2017	36
Jun-2017	36
Jul-2017	36
Aug-2017	36
Sep-2017	36
Oct-2017	36
Nov-2017	36
Dec-2017	36
Jan-2018	35
Feb-2018	35
Mar-2018	35
Apr-2018	35
May-2018	35
Jun-2018	35
Jul-2018	35
Aug-2018	35
Sep-2018	35
Oct-2018	35
Nov-2018	34
Dec-2018	34

Month	Gas Volume
Jan-2019	34
Feb-2019	34
Mar-2019	34
Apr-2019	34
May-2019	33
Jun-2019	33
Jul-2019	33
Aug-2019	33
Sep-2019	33
Oct-2019	33
Nov-2019	32
Dec-2019	32
Jan-2020	32
Feb-2020	32
Mar-2020	32
Apr-2020	32
May-2020	32
Jun-2020	31
Jul-2020	31
Aug-2020	31
Sep-2020	31
Oct-2020	31
Nov-2020	31
Dec-2020	30
Jan-2021	30
Feb-2021	30
Mar-2021	30
Apr-2021	30
May-2021	30
Jun-2021	30
Jul-2021	29
Aug-2021	29
Sep-2021	29
Oct-2021	29
Nov-2021	29
Dec-2021	29

Warren LS 3
Future Production Decline Estimate Pictured Cliffs
(Monthly Factor .267%)

Month	Gas Volume
Jan-2022	29
Feb-2022	28
Mar-2022	28
Apr-2022	28
May-2022	28
Jun-2022	28
Jul-2022	28
Aug-2022	28
Sep-2022	27
Oct-2022	27
Nov-2022	27
Dec-2022	27
Jan-2023	27
Feb-2023	27
Mar-2023	27
Apr-2023	26
May-2023	26
Jun-2023	26
Jul-2023	26
Aug-2023	26
Sep-2023	26
Oct-2023	26
Nov-2023	26
Dec-2023	25
Jan-2024	25
Feb-2024	25
Mar-2024	25
Apr-2024	25
May-2024	25
Jun-2024	25
Jul-2024	25
Aug-2024	24
Sep-2024	24
Oct-2024	24
Nov-2024	24
Dec-2024	24

Month	Gas Volume
Jan-2025	24
Feb-2025	24
Mar-2025	24
Apr-2025	23
May-2025	23
Jun-2025	23
Jul-2025	23
Aug-2025	23
Sep-2025	23
Oct-2025	23
Nov-2025	23
Dec-2025	23
Jan-2026	22
Feb-2026	22
Mar-2026	22
Apr-2026	22
May-2026	22
Jun-2026	22
Jul-2026	22
Aug-2026	22
Sep-2026	22
Oct-2026	21
Nov-2026	21
Dec-2026	21
Jan-2027	21
Feb-2027	21
Mar-2027	21
Apr-2027	21
May-2027	21
Jun-2027	21
Jul-2027	20
Aug-2027	20
Sep-2027	20
Oct-2027	20
Nov-2027	20
Dec-2027	20

Month	Gas Volume
Jan-2028	20
Feb-2028	20
Mar-2028	20
Apr-2028	20
May-2028	19
Jun-2028	19
Jul-2028	19
Aug-2028	19
Sep-2028	19
Oct-2028	19
Nov-2028	19
Dec-2028	19
Jan-2029	19
Feb-2029	19
Mar-2029	19
Apr-2029	18
May-2029	18
Jun-2029	18
Jul-2029	18
Aug-2029	18
Sep-2029	18
Oct-2029	18
Nov-2029	18
Dec-2029	18
Jan-2030	18
Feb-2030	18
Mar-2030	17
Apr-2030	17
May-2030	17
Jun-2030	17
Jul-2030	17
Aug-2030	17
Sep-2030	17
Oct-2030	17
Nov-2030	17
Dec-2030	17

Month	Gas Volume
Jan-2031	17
Feb-2031	16
Mar-2031	16
Apr-2031	16
May-2031	16
Jun-2031	16
Jul-2031	16
Aug-2031	16
Sep-2031	16
Oct-2031	16
Nov-2031	16
Dec-2031	16
Jan-2032	16
Feb-2032	15
Mar-2032	15
Apr-2032	15
May-2032	15
Jun-2032	15
Jul-2032	15
Aug-2032	15
Sep-2032	15
Oct-2032	15
Nov-2032	15
Dec-2032	15
Jan-2033	15
Feb-2033	15
Mar-2033	15
Apr-2033	14
May-2033	14
Jun-2033	14
Jul-2033	14
Aug-2033	14
Sep-2033	14
Oct-2033	14
Nov-2033	14
Dec-2033	14