

Submit 3 Copies To Appropriate District Office
District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
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.

30-045-08447

5. Indicate Type of Lease

STATE FEE

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name:

W D Heath A

(Also filed on BLM Form 3163-5
BLM SF-076337)

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.)

1. Type of Well:

Oil Well ☐ Gas Well ☒ Other

2. Name of Operator

BP America Production Company

Attn: Mary Corley

3. Address of Operator

P.O. Box 3092 Houston, TX 77253

4. Well Location

Unit Letter N 820 feet from the South line and 1450 feet from the West line

Section 09 Township 29N Range 09W NMPM San Juan County

10. Elevation (Show whether DR, RKB, RT, GR, etc.)

5720' RKB

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: Complete Mesaverde & 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.

Amoco Production Company request permission to complete the subject well into the Blanco Mesaverde and commingle production downhole with the existing Basin Dakota Pool as per the attached procedure.

The Basin Dakota (71599) & the Blanco Mesaverde (72319) Pools are Pre-Approved for Downhole Commingling per NMOCD Order R - 11363. The working and overriding royalty interest owners in the proposed commingled pools are identical, therefore no further notification of this application is required.

Production is proposed to be allocated based on the subtraction method using the projected future decline for production from the Dakota. That production shall serve as a base for production subtracted from the total production for the commingled well. The balance of the production will be attributed to the Mesaverde. Attached is the future production decline estimates for the Dakota.

Commingling Production Downhole in the subject well from the proposed pools with not reduce the value of the total remaining production.

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 03/18/2002

Type or print name Mary Corley Telephone No. 281-366-4491

(This space for State use)

APPROVED BY [Signature] DATE MAR 18 2002

Conditions of approval, if any:

District I
1625 N. French Dr., Hobbs, NM 88240

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised August 15, 2000

District II
811 South First, Artesia, NM 88210

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

District III
1000 Rio Brazos Rd., Aztec, NM 87410

District IV
2040 South Pacheco, Santa Fe, NM 87505

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-08447	² Pool Code 72319	³ Pool Name Blanco Mesaverde
⁴ Property Code 000665	⁵ Property Name W D Heath A	⁶ Well Number 9
⁷ OGRID No. 000778	⁸ Operator Name BP America Production Company	⁹ Elevation 5720'

¹⁰ Surface Location

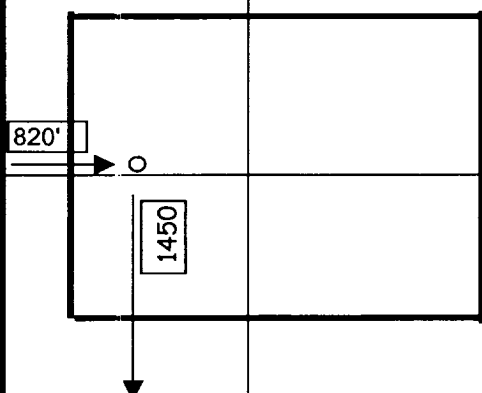
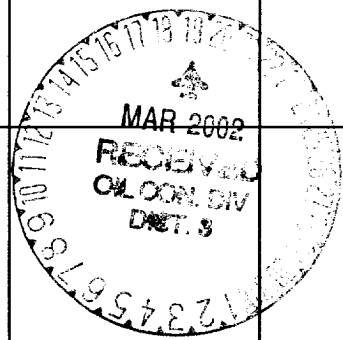
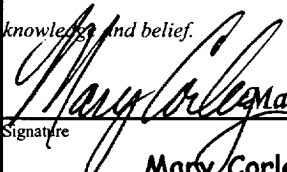
UL or lot no. Unit N	Section 9	Township 29N	Range 09W	Lot Idn	Feet from 820'	North/South South	Feet from 1450'	East/West West	County San Juan
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from	North/South	Feet	East/West	County
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¹² Dedicated Acres 320	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

		¹⁷ OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</i>  Signature Mary Corley Printed Name Sr. Regulatory Analyst Title 03/18/02 Date
		¹⁸ SURVEYOR CERTIFICATION <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i> On File Date of Survey Signature and Seal of Professional Surveyor: Fred B Kerr Jr. 7016 Certificate Number

W.D. Heath A #9 Recompletion Procedure

Procedure:

1. Check anchors. MIRU workover rig.
2. Check and record tubing, casing, and bradenhead pressures.
3. Blow down well. Kill with 2% KCL water ONLY if necessary.
4. Nipple down WH. NU BOPs.
5. Tag for fill and tally OH with 2-3/8" production tubing currently set at 6646'.
6. TIH with bit and scraper for 4-1/2" casing to 4800'.
7. TIH with tubing-set CIBP. Set CIBP at 4800'. Load hole with 2% KCL.
8. RU WL. Run CBL over MV interval (3750' - 4800') to ensure zonal isolation across the MV.
9. Pressure test casing to 1500 psi
10. RIH with 3-1/8" casing guns. Perforate Point Lookout/Lower Menefee formation.

4364', 4373', 4376', 4460', 4474', 4480', 4494', 4503', 4516', 4522', 4527', 4539', 4548',
4553', 4573', 4612', 4621', 4633', 4650', 4676', 4689'
11. RU frac equipment and install wellhead isolation tool. Use 2% KCL-N2 foam in fracture stimulation.
12. Spearhead 500 gal 15% HCL, establish injection rate, and proceed with fracture stimulation according to Schlumberger schedule.
13. Immediately after frac job, RU WL unit and lubricator.
14. RIH and set CIBP between Point Lookout and Menefee at 4300'.
15. RIH with 3-1/8" casing guns. Perforate Menefee/Cliffhouse formation.

3900', 3916', 3942', 3958', 3962', 3965', 3970', 3974', 3980', 3982', 3988', 3994', 4002',
4010', 4022', 4065', 4070', 4142', 4148', 4169', 4190', 4196', 4228', 4230', 4244', 4264',
4277'
16. RU frac equipment and install wellhead isolation tool. Use 2% KCL/N2 foam in fracture stimulation.

17. Spearhead 500 gal 15% HCL, establish injection rate, and proceed with fracture stimulation according to Schlumberger schedule.
18. Flowback frac immediately.
19. TIH with tubing and bit. Cleanout fill and drill bridge plugs set at 4300' and 4800'. Cleanout fill to PBTD at 6700'. Blow well dry at PBTD.
20. Rabbit tubing and RIH with 2-3/8" production tubing.
21. Land 2-3/8" production tubing at 6575'.
23. ND BOP's. NU WH. Return well to production and downhole commingle MV and DK production.

W.D. Heath A #9

Sec 9, T29N R9W

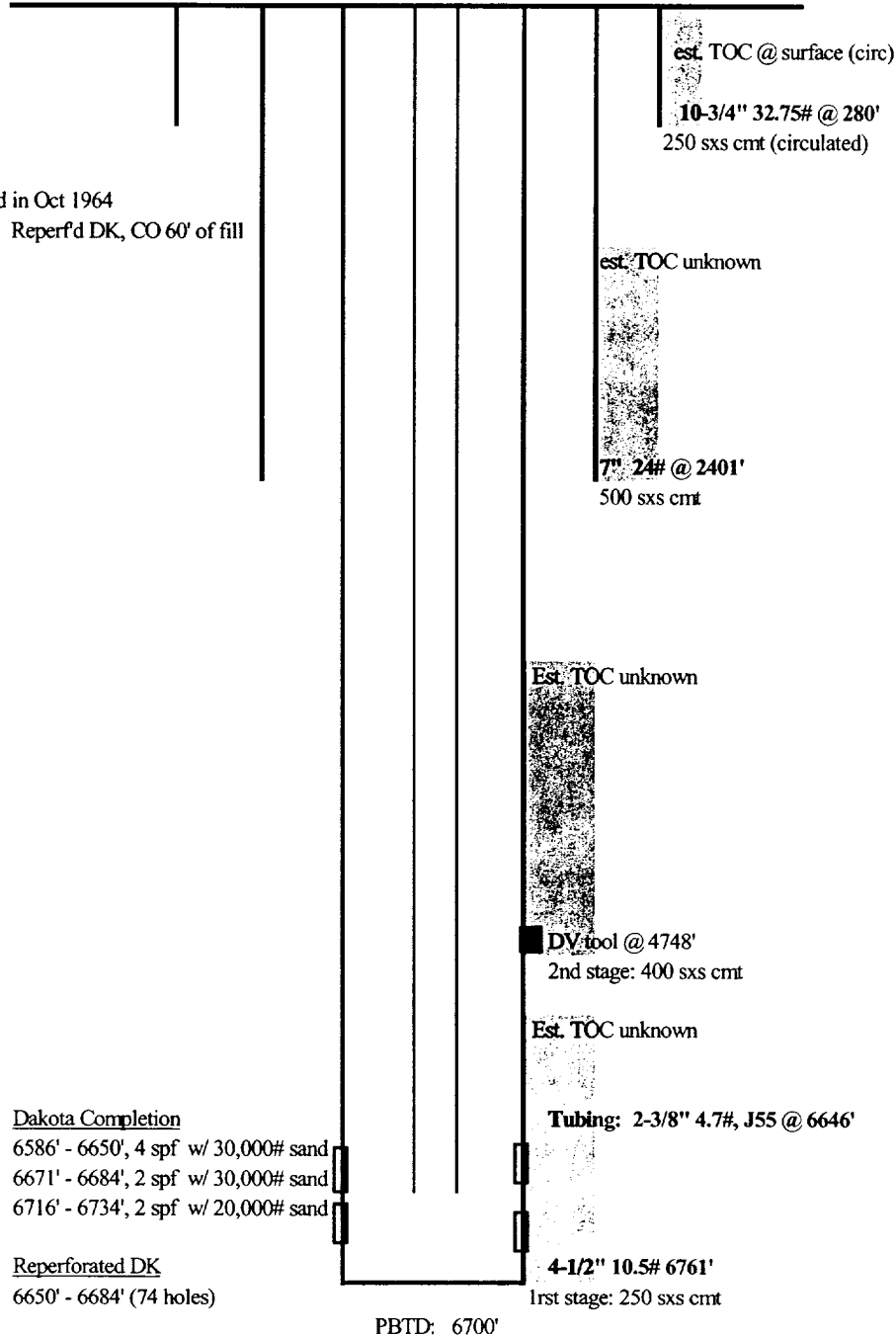
API: 30-045-08447

GL: 5720'

History:

Completed in Oct 1964

Apr 1996: Reperfd DK, CO 60' of fill



Notes:

updated: 1/18/02 jad

Future Production Decline Estimate Dakota **(Monthly Factor .247%)**

Month	Gas Volume
Jan-2001	39
Feb-2001	32
Mar-2001	26
Apr-2001	18
May-2001	18
Jun-2001	17
Jul-2001	16
Aug-2001	16
Sep-2001	62
Oct-2001	48
Nov-2001	31
Dec-2001	20
Jan-2002	20
Feb-2002	20
Mar-2002	20
Apr-2002	20
May-2002	20
Jun-2002	20
Jul-2002	20
Aug-2002	20
Sep-2002	20
Oct-2002	20
Nov-2002	20
Dec-2002	20
Jan-2003	20
Feb-2003	20
Mar-2003	20
Apr-2003	20
May-2003	20
Jun-2003	20
Jul-2003	20
Aug-2003	20
Sep-2003	20
Oct-2003	20
Nov-2003	20
Dec-2003	19

$\ln(Q_f/Q_i) = -dt$
 $Q_i = 18 \text{ MCFD (04/2001)}$
 $Q_f = 16 \text{ MCFD (08/2001)}$
 $t = 4 \text{ months (.33333 yrs)}$
 $d = 0.32 \text{ annual decline}$
 $0.027 \text{ monthly decline (0.32/12)}$

Corrected Volumes

$16/18 = .88889$
 $.89 * .3333 = .29630$
 0.024691667

Month	Gas Volume
Jan-2004	19
Feb-2004	18
Mar-2004	18
Apr-2004	17
May-2004	17
Jun-2004	16
Jul-2004	16
Aug-2004	16
Sep-2004	15
Oct-2004	15
Nov-2004	14
Dec-2004	14
Jan-2005	14
Feb-2005	13
Mar-2005	13
Apr-2005	13
May-2005	12
Jun-2005	12
Jul-2005	12
Aug-2005	11
Sep-2005	11
Oct-2005	11
Nov-2005	10
Dec-2005	10
Jan-2006	10
Feb-2006	10
Mar-2006	9
Apr-2006	9
May-2006	9
Jun-2006	9
Jul-2006	8
Aug-2006	8
Sep-2006	8
Oct-2006	8
Nov-2006	7
Dec-2006	7

Month	Gas Volume
Jan-2007	7
Feb-2007	7
Mar-2007	7
Apr-2007	7
May-2007	7
Jun-2007	7
Jul-2007	7
Aug-2007	7
Sep-2007	7
Oct-2007	7
Nov-2007	7
Dec-2007	7
Jan-2008	7
Feb-2008	7
Mar-2008	7
Apr-2008	7
May-2008	7
Jun-2008	7
Jul-2008	7
Aug-2008	7
Sep-2008	7
Oct-2008	7
Nov-2008	7
Dec-2008	7
Jan-2009	7
Feb-2009	7
Mar-2009	7
Apr-2009	7
May-2009	7
Jun-2009	7
Jul-2009	7
Aug-2009	7
Sep-2009	6
Oct-2009	6
Nov-2009	6
Dec-2009	6

W D Heath A 9
Future Production Decline Estimate Dakota
(Monthly Factor .247%)

Month	Gas Volume
Jan-2010	6
Feb-2010	6
Mar-2010	6
Apr-2010	6
May-2010	6
Jun-2010	6
Jul-2010	6
Aug-2010	6
Sep-2010	6
Oct-2010	6
Nov-2010	6
Dec-2010	6
Jan-2011	6
Feb-2011	6
Mar-2011	6
Apr-2011	6
May-2011	6
Jun-2011	6
Jul-2011	6
Aug-2011	6
Sep-2011	6
Oct-2011	6
Nov-2011	6
Dec-2011	6
Jan-2012	6
Feb-2012	6
Mar-2012	6
Apr-2012	6
May-2012	6
Jun-2012	6
Jul-2012	6
Aug-2012	6
Sep-2012	6
Oct-2012	6
Nov-2012	6
Dec-2012	6

Month	Gas Volume
Jan-2013	6
Feb-2013	6
Mar-2013	6
Apr-2013	6
May-2013	6
Jun-2013	6
Jul-2013	6
Aug-2013	6
Sep-2013	6
Oct-2013	6
Nov-2013	5
Dec-2013	5
Jan-2014	5
Feb-2014	5
Mar-2014	5
Apr-2014	5
May-2014	5
Jun-2014	5
Jul-2014	5
Aug-2014	5
Sep-2014	5
Oct-2014	5
Nov-2014	5
Dec-2014	5
Jan-2015	5
Feb-2015	5
Mar-2015	5
Apr-2015	5
May-2015	5
Jun-2015	5
Jul-2015	5
Aug-2015	5
Sep-2015	5
Oct-2015	5
Nov-2015	5
Dec-2015	5

Month	Gas Volume
Jan-2016	5
Feb-2016	5
Mar-2016	5
Apr-2016	5
May-2016	5
Jun-2016	5
Jul-2016	5
Aug-2016	5
Sep-2016	5
Oct-2016	5
Nov-2016	5
Dec-2016	5
Jan-2017	5
Feb-2017	5
Mar-2017	5
Apr-2017	5
May-2017	5
Jun-2017	5
Jul-2017	5
Aug-2017	5
Sep-2017	5
Oct-2017	5
Nov-2017	5
Dec-2017	5
Jan-2018	5
Feb-2018	5
Mar-2018	5
Apr-2018	5
May-2018	5
Jun-2018	5
Jul-2018	5
Aug-2018	5
Sep-2018	5
Oct-2018	5
Nov-2018	5
Dec-2018	5

Month	Gas Volume
Jan-2019	5
Feb-2019	5
Mar-2019	5
Apr-2019	4
May-2019	4
Jun-2019	4
Jul-2019	4
Aug-2019	4
Sep-2019	4
Oct-2019	4
Nov-2019	4
Dec-2019	4
Jan-2020	4
Feb-2020	4
Mar-2020	4
Apr-2020	4
May-2020	4
Jun-2020	4
Jul-2020	4
Aug-2020	4
Sep-2020	4
Oct-2020	4
Nov-2020	4
Dec-2020	4
Jan-2021	4
Feb-2021	4
Mar-2021	4
Apr-2021	4
May-2021	4
Jun-2021	4
Jul-2021	4
Aug-2021	4
Sep-2021	4
Oct-2021	4
Nov-2021	4
Dec-2021	4

W D Heath A 9

Future Production Decline Estimate Dakota (Monthly Factor .247%)

Month	Gas Volume
Jan-2022	4
Feb-2022	4
Mar-2022	4
Apr-2022	4
May-2022	4
Jun-2022	4
Jul-2022	4
Aug-2022	4
Sep-2022	4
Oct-2022	4
Nov-2022	4
Dec-2022	4
Jan-2023	4
Feb-2023	4
Mar-2023	4
Apr-2023	4
May-2023	4
Jun-2023	3
Jul-2023	3
Aug-2023	3
Sep-2023	3
Oct-2023	3
Nov-2023	3
Dec-2023	3
Jan-2024	3
Feb-2024	3
Mar-2024	3
Apr-2024	3
May-2024	3
Jun-2024	3
Jul-2024	3
Aug-2024	3
Sep-2024	3
Oct-2024	3
Nov-2024	3
Dec-2024	3

Month	Gas Volume
Jan-2025	3
Feb-2025	3
Mar-2025	3
Apr-2025	3
May-2025	3
Jun-2025	3
Jul-2025	3
Aug-2025	3
Sep-2025	3
Oct-2025	3
Nov-2025	3
Dec-2025	3
Jan-2026	3
Feb-2026	3
Mar-2026	3
Apr-2026	3
May-2026	3
Jun-2026	3
Jul-2026	3
Aug-2026	3
Sep-2026	3
Oct-2026	3
Nov-2026	3
Dec-2026	3
Jan-2027	3
Feb-2027	3
Mar-2027	3
Apr-2027	3
May-2027	3
Jun-2027	3
Jul-2027	3
Aug-2027	3
Sep-2027	3
Oct-2027	3
Nov-2027	3
Dec-2027	3

Month	Gas Volume
Jan-2028	3
Feb-2028	3
Mar-2028	3
Apr-2028	3
May-2028	3
Jun-2028	3
Jul-2028	3
Aug-2028	3
Sep-2028	3
Oct-2028	3
Nov-2028	3
Dec-2028	3
Jan-2029	2
Feb-2029	2
Mar-2029	2
Apr-2029	2
May-2029	2
Jun-2029	2
Jul-2029	2
Aug-2029	2
Sep-2029	2
Oct-2029	2
Nov-2029	2
Dec-2029	2
Jan-2030	2
Feb-2030	2
Mar-2030	2
Apr-2030	2
May-2030	2
Jun-2030	2
Jul-2030	2
Aug-2030	2
Sep-2030	2
Oct-2030	2
Nov-2030	2
Dec-2030	2

Month	Gas Volume
Jan-2031	2
Feb-2031	2
Mar-2031	2
Apr-2031	2
May-2031	2
Jun-2031	2
Jul-2031	2
Aug-2031	2
Sep-2031	2
Oct-2031	2
Nov-2031	2
Dec-2031	2
Jan-2032	2
Feb-2032	2
Mar-2032	2
Apr-2032	2
May-2032	2
Jun-2032	2
Jul-2032	2
Aug-2032	2
Sep-2032	2
Oct-2032	2
Nov-2032	2
Dec-2032	2
Jan-2033	2
Feb-2033	2
Mar-2033	2
Apr-2033	2
May-2033	2
Jun-2033	2
Jul-2033	2
Aug-2033	2
Sep-2033	2
Oct-2033	2
Nov-2033	2
Dec-2033	2