

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. 30-045-23434
5. Indicate Type of Lease STATE FEE
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name: Case A (Federal # USA-SF-078095 also submitted on BLM Form 3160-3)
8. Well No. 2
9. Pool name or Wildcat Basin Dakota & Blanco Mesaverde
10. Elevation (Show whether DR, RKB, RT, GR, etc.) 6279'

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
Amoco Production Company Attn: Mary Corley

3. Address of Operator
P.O. Box 3092 Houston, TX 77253

4. Well Location

Unit Letter D 950 feet from the North line and 1070 feet from the West line

Section 17 Township 31N Range 11W NMPM San Juan County

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 recompilation.

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 overriding royalty interest owners in the proposed commingled pools are not identical, and are, therefore being notification of this application via certified mail (return receipt).

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 09/07/2001

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

(This space for Signature) Original Signed by STEVEN N. HAYDEN

APPROVED BY DEPUTY OIL & GAS INSPECTOR, DIST. #3 TITLE DEPUTY OIL & GAS INSPECTOR, DIST. #3 DATE SEP 10 2001

Conditions of approval, if any:

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
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-102
Revised August 15, 2000

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-23434	² Pool Code 72319	³ Pool Name Blanco Mesaverde
⁴ Property Code 000361	⁵ Property Name Case A	⁶ Well Number 2
⁷ OGRID No. 000778	⁸ Operator Name Amoco Production Company	⁹ Elevation 5934'

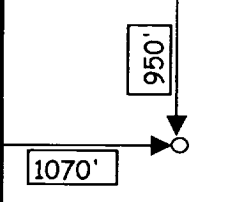
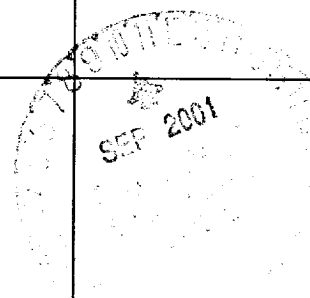
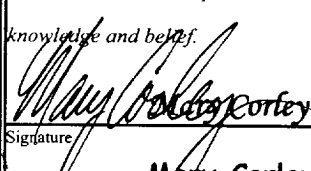
¹⁰ Surface Location

UL or lot no. Unit D	Section 17	Township 31N	Range 11W	Lot Idn	Feet from 950'	North/South North	Feet from 1070'	East/West West	County San Juan
--------------------------------	----------------------	------------------------	---------------------	---------	--------------------------	-----------------------------	---------------------------	--------------------------	---------------------------

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
¹² Dedicated Acres 320	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.						

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 09/07/2001
					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> 10/7/1978
					Date of Survey 10/7/1978
					Signature and Seal of Professional Surveyor: Fred B Kerr Jr. 3950
					Certificate Number

Case A #2 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 7328'.
6. TIH with bit and scraper for 4-1/2" casing to 5400'.
7. RU WL unit. RIH with wireline-set CIBP. Set CIBP at 5400'. Load hole with 2% KCL.
8. Run CBL over MV interval (4000' - 5400').
9. RIH with squeeze guns. Perforate squeeze holes at 4780'.
10. Perform block squeeze as per Schlumberger design.
11. TIH with tubing and mill. Drill up cement. TOH.
12. RU WL unit. Run CBL from 4500' - 5400' to verify cement isolation.
13. Pressure test casing to 500 psi.
14. RIH with 3-1/8" casing guns. Perforate Point Lookout/Menefee formation.
5112', 5116', 5129', 5136', 5144', 5154', 5162', 5175', 5182', 5188', 5202', 5215',
5230', 5246', 5254', 4816', 4828', 4838', 4856', 4864', 4882', 4893', 4955',
4960', 4994', 5006', 5030', 5038', 5068', 5086'
15. PU 3-1/2" X 2-3/8" tapered frac string and 4-1/2" packer. TIH and set packer at 4800'.
16. RU frac equipment. 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. Unseat packer, TOH, and LD frac string and packer.
20. TIH with tubing and bit. Cleanout fill and drill bridge plug set at 5400'.
Cleanout fill to PBTD at 7525'.
21. RIH with 2-3/8" production tubing. Land 2-3/8" production tubing at 7300'.
22. ND BOP's. NU WH. Test well for air. Return well to production and downhole commingle MV and DK production.

Case A #2

Sec 17, T31N R11W

API: 30-045-23434

GL: 6279'

History:

Completed in 7/79

Lost 1300 bbls mud & LCM in
6-3/4" OH. Spotted cmt and
salt pills to stop losses at
5268'.

Dakota Completion

7318' - 7336' 2 spf

7346' - 7358' 2 spf

7404' - 7416' 2 spf

7428' - 7442' 2 spf

frac'd w/ 105,000#'s sand

est. TOC @ surface (circ 16 bbls)

9-5/8" 36#, K55 ST&C @ 235'
160 sxs cmt (circulated)

TOC @ unknown

4-1/2" liner hanger @ 3370'

7" 23#, K55 ST&C @ 3500'
640 sacks cmt

est. TOC @ 5330' (CBL 1979)

Tubing: 2-3/8" 4.7#, J55 @ 7328'

4-1/2" liner, 10.5#, K55 ST&C (81 jts) 3370' - 6969'

4-1/2" liner, 11.6#, K55 ST&C (15 jts) 6969' - 7539'

700 sacks cmt

PBTD: 7525'

Notes:

4-1/2" cement job:

- cmt job locked up 56 bbls into displacement
- 1500 psi lift pressure
- Reversed out 75 bbls mud and water
- Drilled 2375' of cement in 4-1/2" casing

updated: 8/30/01 jad

Case A #2

Future Production Decline Estimate Dakota

(Monthly Factor .309%)

Month	Gas Volume
Jan-2000	30
Feb-2000	28
Mar-2000	29
Apr-2000	29
May-2000	30
Jun-2000	27
Jul-2000	28
Aug-2000	27
Sep-2000	29
Oct-2000	20
Nov-2000	30
Dec-2000	24
Jan-2001	25
Feb-2001	22
Mar-2001	21
Apr-2001	20
May-2001	20
Jun-2001	12
Jul-2001	20
Aug-2001	35
Sep-2001	35
Oct-2001	35
Nov-2001	35
Dec-2001	35
Jan-2002	35
Feb-2002	34
Mar-2002	34
Apr-2002	34
May-2002	34
Jun-2002	34
Jul-2002	34
Aug-2002	34
Sep-2002	34
Oct-2002	34
Nov-2002	34
Dec-2002	34

$\ln(Q_f/Q_i) = -dt$
 $Q_i = 27 \text{ MCFD (08/2000)}$
 $Q_f = 24 \text{ MCFD (12/2000)}$
 $t = 5 \text{ months (.41666 yrs)}$
 $d = 0.32 \text{ annual decline}$
 $0.027 \text{ monthly decline (0.32/12)}$

Corrected Volumes

$24/27 = 0.88889$
 $.89 * .41666 = .37036$
 0.030863333

Month	Gas Volume
Jan-2003	33
Feb-2003	33
Mar-2003	33
Apr-2003	33
May-2003	33
Jun-2003	33
Jul-2003	33
Aug-2003	33
Sep-2003	33
Oct-2003	33
Nov-2003	33
Dec-2003	33
Jan-2004	32
Feb-2004	32
Mar-2004	32
Apr-2004	32
May-2004	32
Jun-2004	32
Jul-2004	32
Aug-2004	32
Sep-2004	32
Oct-2004	32
Nov-2004	32
Dec-2004	32
Jan-2005	31
Feb-2005	31
Mar-2005	31
Apr-2005	31
May-2005	31
Jun-2005	31
Jul-2005	31
Aug-2005	31
Sep-2005	31
Oct-2005	31
Nov-2005	31
Dec-2005	31

Month	Gas Volume
Jan-2006	30
Feb-2006	30
Mar-2006	30
Apr-2006	30
May-2006	30
Jun-2006	30
Jul-2006	30
Aug-2006	30
Sep-2006	30
Oct-2006	29
Nov-2006	29
Dec-2006	29
Jan-2007	29
Feb-2007	29
Mar-2007	29
Apr-2007	29
May-2007	29
Jun-2007	29
Jul-2007	29
Aug-2007	28
Sep-2007	28
Oct-2007	28
Nov-2007	28
Dec-2007	28
Jan-2008	28
Feb-2008	28
Mar-2008	28
Apr-2008	28
May-2008	28
Jun-2008	28
Jul-2008	27
Aug-2008	27
Sep-2008	27
Oct-2008	27
Nov-2008	27
Dec-2008	27

Case A #2

Future Production Decline Estimate Dakota

(Monthly Factor .309%)

Month	Gas Volume
Jan-2009	27
Feb-2009	27
Mar-2009	27
Apr-2009	27
May-2009	26
Jun-2009	26
Jul-2009	26
Aug-2009	26
Sep-2009	26
Oct-2009	26
Nov-2009	26
Dec-2009	26
Jan-2010	26
Feb-2010	26
Mar-2010	26
Apr-2010	25
May-2010	25
Jun-2010	25
Jul-2010	25
Aug-2010	25
Sep-2010	25
Oct-2010	25
Nov-2010	25
Dec-2010	25
Jan-2011	25
Feb-2011	25
Mar-2011	25
Apr-2011	24
May-2011	24
Jun-2011	24
Jul-2011	24
Aug-2011	24
Sep-2011	24
Oct-2011	24
Nov-2011	24
Dec-2011	24

Month	Gas Volume
Jan-2012	24
Feb-2012	24
Mar-2012	24
Apr-2012	23
May-2012	23
Jun-2012	23
Jul-2012	23
Aug-2012	23
Sep-2012	23
Oct-2012	23
Nov-2012	23
Dec-2012	23
Jan-2013	23
Feb-2013	23
Mar-2013	23
Apr-2013	23
May-2013	23
Jun-2013	23
Jul-2013	22
Aug-2013	22
Sep-2013	22
Oct-2013	22
Nov-2013	22
Dec-2013	22
Jan-2014	22
Feb-2014	22
Mar-2014	22
Apr-2014	22
May-2014	22
Jun-2014	22
Jul-2014	22
Aug-2014	22
Sep-2014	22
Oct-2014	21
Nov-2014	21
Dec-2014	21

Month	Gas Volume
Jan-2015	21
Feb-2015	21
Mar-2015	21
Apr-2015	21
May-2015	21
Jun-2015	21
Jul-2015	21
Aug-2015	21
Sep-2015	21
Oct-2015	21
Nov-2015	21
Dec-2015	21
Jan-2016	21
Feb-2016	20
Mar-2016	20
Apr-2016	20
May-2016	20
Jun-2016	20
Jul-2016	20
Aug-2016	20
Sep-2016	20
Oct-2016	20
Nov-2016	20
Dec-2016	20
Jan-2017	20
Feb-2017	20
Mar-2017	20
Apr-2017	20
May-2017	20
Jun-2017	20
Jul-2017	19
Aug-2017	19
Sep-2017	19
Oct-2017	19
Nov-2017	19
Dec-2017	19

Month	Gas Volume
Jan-2018	19
Feb-2018	19
Mar-2018	19
Apr-2018	19
May-2018	19
Jun-2018	19
Jul-2018	18
Aug-2018	18
Sep-2018	18
Oct-2018	18
Nov-2018	18
Dec-2018	18
Jan-2019	18
Feb-2019	18
Mar-2019	18
Apr-2019	18
May-2019	18
Jun-2019	18
Jul-2019	17
Aug-2019	17
Sep-2019	17
Oct-2019	17
Nov-2019	17
Dec-2019	17
Jan-2020	17
Feb-2020	17
Mar-2020	17
Apr-2020	17
May-2020	17
Jun-2020	16
Jul-2020	16
Aug-2020	16
Sep-2020	16
Oct-2020	16
Nov-2020	16
Dec-2020	16

Case A #2
Future Production Decline Estimate Dakota
(Monthly Factor .309%)

Month	Gas Volume
Jan-2021	16
Feb-2021	16
Mar-2021	16
Apr-2021	16
May-2021	16
Jun-2021	16
Jul-2021	15
Aug-2021	15
Sep-2021	15
Oct-2021	15
Nov-2021	15
Dec-2021	15
Jan-2022	15
Feb-2022	15
Mar-2022	15
Apr-2022	15
May-2022	15
Jun-2022	15
Jul-2022	15
Aug-2022	14
Sep-2022	14
Oct-2022	14
Nov-2022	14
Dec-2022	14
Jan-2023	14
Feb-2023	14
Mar-2023	14
Apr-2023	14
May-2023	14
Jun-2023	14
Jul-2023	14
Aug-2023	14
Sep-2023	14
Oct-2023	13
Nov-2023	13
Dec-2023	13

Month	Gas Volume
Jan-2024	13
Feb-2024	13
Mar-2024	13
Apr-2024	13
May-2024	13
Jun-2024	13
Jul-2024	13
Aug-2024	13
Sep-2024	13
Oct-2024	13
Nov-2024	13
Dec-2024	13
Jan-2025	13
Feb-2025	12
Mar-2025	12
Apr-2025	12
May-2025	12
Jun-2025	12
Jul-2025	12
Aug-2025	12
Sep-2025	12
Oct-2025	12
Nov-2025	12
Dec-2025	12
Jan-2026	12
Feb-2026	12
Mar-2026	12
Apr-2026	12
May-2026	12
Jun-2026	11
Jul-2026	11
Aug-2026	11
Sep-2026	11
Oct-2026	11
Nov-2026	11
Dec-2026	11

Month	Gas Volume
Jan-2027	11
Feb-2027	11
Mar-2027	11
Apr-2027	11
May-2027	11
Jun-2027	11
Jul-2027	11
Aug-2027	11
Sep-2027	11
Oct-2027	11
Nov-2027	11
Dec-2027	10
Jan-2028	10
Feb-2028	10
Mar-2028	10
Apr-2028	10
May-2028	10
Jun-2028	10
Jul-2028	10
Aug-2028	10
Sep-2028	10
Oct-2028	10
Nov-2028	10
Dec-2028	10
Jan-2029	10
Feb-2029	10
Mar-2029	10
Apr-2029	10
May-2029	10
Jun-2029	10
Jul-2029	10
Aug-2029	9
Sep-2029	9
Oct-2029	9
Nov-2029	9
Dec-2029	9

Month	Gas Volume
Jan-2030	9
Feb-2030	9
Mar-2030	9
Apr-2030	9
May-2030	9
Jun-2030	9
Jul-2030	9
Aug-2030	9
Sep-2030	9
Oct-2030	9
Nov-2030	9
Dec-2030	9
Jan-2031	9
Feb-2031	9
Mar-2031	9
Apr-2031	9
May-2031	9
Jun-2031	8
Jul-2031	8
Aug-2031	8
Sep-2031	8
Oct-2031	8
Nov-2031	8
Dec-2031	8
Jan-2032	8
Feb-2032	8
Mar-2032	8
Apr-2032	8
May-2032	8
Jun-2032	8
Jul-2032	8
Aug-2032	8
Sep-2032	8
Oct-2032	8
Nov-2032	8
Dec-2032	8