

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. 30-045-24071
5. Indicate Type of Lease STATE FEE
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name: Heaton Com B Also filed on BLM Form 3160-5 Federal Lease SF - 078097)
8. Well No. 2
9. Pool name or Wildcat Basin Dakota & Blanco Mesaverde
10. Elevation (Show whether DR, RKB, RT, GR, etc.) 5938'

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-104) FOR
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 **A** **990** feet from the **North** line and **990** feet from the **East** line
Section **30** 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 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 (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 06/27/2001

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

(This space for State use)

APPROVED BY Original Signed by STEVEN N. HAYDEN TITLE DEPUTY OIL & GAS INSPECTOR, DIST. # DATE JUL -2 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 30-045-24071	² Pool Code 72319	³ Pool Name Blanco Mesaverde
⁴ Property Code 000671	⁵ Property Name Heaton Com B	⁶ Well Number 2
⁷ OGRID No. 000778	⁸ Operator Name Amoco Production Company	⁹ Elevation 6620'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Unit A	30	31N	11W		990'	North	990'	East	San Juan

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

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

¹⁶	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. <i>Mary Corley</i> Signature Printed Name Mary Corley Title Sr. Regulatory Analyst Date 06/27/2001
	¹⁸ SURVEYOR CERTIFICATION 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. 07/23/1979 Date of Survey Signature and Seal of Professional Surveyor: Fred B Kerr Jr 3950 Certificate Number

Heaton Com B #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 6889.
6. TIH with bit and scraper for 4-1/2" casing to 5200'.
7. TIH with tubing-set CIBP. Set CIBP at 5200'. Load hole with 2% KCL.
8. RU WL. Run CBL over MV interval (3900' - 5200') to ensure zonal isolation across the MV.
9. Pressure test casing to 2500 psi
10. RIH with 3-1/8" casing guns. Perforate Point Lookout formation.
4660', 4665', 4703', 4723', 4733', 4742', 4752', 4760', 4773', 4785', 4791', 4798',
4803', 4812', 4826', 4833', 4843', 4850', 4868', 4895', 4913', 4923', 4949', 4973',
4997', 5012', 5038', 5047', 5075', 5105'
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 4615'.
15. RIH with 3-1/8" casing guns. Perforate Menefee formation.
4391', 4393', 4415', 4418', 4430', 4492', 4500', 4560', 4590', 4595', 4605'
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 4615' and 5200'. Cleanout fill to PBTD at 7056'. Blow well dry at PBTD.
20. Land 2-3/8" production tubing at 6870'.
21. ND BOP's. NU WH. Return well to production and downhole commingle MV and DK production.

Heaton Com B #2

Sec 30, T31NR11W

API: 30-045-24071

GL: 5938'

History:

6-1/4" OH drilled with air
without problems
Completed in 3/80

est. TOC @ surface (circ 10 bbls)

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

est. TOC unknown

4-1/2" TIW inner hanger @ 3226'

7" 23#, K55 ST&C @ 3400'
675 sxs cmt

est. TOC unknown

Tubing: 2-3/8" 4.7#, J55 @ 6889'

Dakota Completion

6870' - 6888' 2 spf

6896' - 6906' 2 spf

6962' - 6984' 2 spf

6993' - 6997' 2 spf

7014' - 7018' 2 spf

7038' - 7042' 2 spf

w/ 105,000#s sand

PBTD: 7056'

4-1/2" liner, 10.5#, K55 ST&C 83 jts (3226' - 6856')

4-1/2" liner, 11.6#, K55 ST&C 5 jts (6856' - 7067')

450 sxs cmt

Notes:

1) No cmt was reversed off 4-1/2" liner but
files indicates a good cmt job. The plug
was bumped, 750 psi lift pressure, and
good circ throughout the job.

updated: 5/7/01 jad

Heaton Com B #2

Future Production Decline Estimate Dakota

(Monthly Factor .319%)

Month	Gas Volume
Jan-2000	26
Feb-2000	25
Mar-2000	27
Apr-2000	26
May-2000	55
Jun-2000	50
Jul-2000	43
Aug-2000	38
Sep-2000	39
Oct-2000	29
Nov-2000	37
Dec-2000	29
Jan-2001	29
Feb-2001	28
Mar-2001	34
Apr-2001	35
May-2001	34
Jun-2001	34
Jul-2001	34
Aug-2001	34
Sep-2001	34
Oct-2001	34
Nov-2001	33
Dec-2001	33
Jan-2002	33
Feb-2002	33
Mar-2002	33
Apr-2002	33
May-2002	33
Jun-2002	33
Jul-2002	33
Aug-2002	33
Sep-2002	33
Oct-2002	33
Nov-2002	32
Dec-2002	32

$\ln(Q_f/Q_i) = -dt$
 $Q_i = 37 \text{ MCFD (11/2000)}$
 $Q_f = 34 \text{ MCFD (05/2001)}$
 $t = 5 \text{ months (.41666 yrs)}$
 $d = 0.32 \text{ annual decline}$
 $0.027 \text{ monthly decline (0.32/12)}$

Corrected Volumes
 $34/37 = 0.91892$
 $.92 * .41666 = .38288$
 0.031906667

Month	Gas Volume
Jan-2003	32
Feb-2003	32
Mar-2003	32
Apr-2003	32
May-2003	32
Jun-2003	32
Jul-2003	32
Aug-2003	32
Sep-2003	32
Oct-2003	31
Nov-2003	31
Dec-2003	31
Jan-2004	31
Feb-2004	31
Mar-2004	31
Apr-2004	31
May-2004	31
Jun-2004	31
Jul-2004	31
Aug-2004	31
Sep-2004	31
Oct-2004	31
Nov-2004	30
Dec-2004	30
Jan-2005	30
Feb-2005	30
Mar-2005	30
Apr-2005	30
May-2005	30
Jun-2005	30
Jul-2005	30
Aug-2005	30
Sep-2005	30
Oct-2005	30
Nov-2005	30
Dec-2005	29

Month	Gas Volume
Jan-2006	29
Feb-2006	29
Mar-2006	29
Apr-2006	29
May-2006	29
Jun-2006	29
Jul-2006	29
Aug-2006	29
Sep-2006	28
Oct-2006	28
Nov-2006	28
Dec-2006	28
Jan-2007	28
Feb-2007	28
Mar-2007	28
Apr-2007	28
May-2007	28
Jun-2007	28
Jul-2007	28
Aug-2007	27
Sep-2007	27
Oct-2007	27
Nov-2007	27
Dec-2007	27
Jan-2008	27
Feb-2008	27
Mar-2008	27
Apr-2008	27
May-2008	27
Jun-2008	27
Jul-2008	26
Aug-2008	26
Sep-2008	26
Oct-2008	26
Nov-2008	26
Dec-2008	26

Heaton Com B #2
Future Production Decline Estimate Dakota
(Monthly Factor .319%)

Month	Gas Volume
Jan-2009	26
Feb-2009	26
Mar-2009	26
Apr-2009	26
May-2009	26
Jun-2009	25
Jul-2009	25
Aug-2009	25
Sep-2009	25
Oct-2009	25
Nov-2009	25
Dec-2009	25
Jan-2010	25
Feb-2010	25
Mar-2010	25
Apr-2010	25
May-2010	24
Jun-2010	24
Jul-2010	24
Aug-2010	24
Sep-2010	24
Oct-2010	24
Nov-2010	24
Dec-2010	24
Jan-2011	24
Feb-2011	24
Mar-2011	24
Apr-2011	24
May-2011	23
Jun-2011	23
Jul-2011	23
Aug-2011	23
Sep-2011	23
Oct-2011	23
Nov-2011	23
Dec-2011	23

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

Month	Gas Volume
Jan-2015	21
Feb-2015	20
Mar-2015	20
Apr-2015	20
May-2015	20
Jun-2015	20
Jul-2015	20
Aug-2015	20
Sep-2015	20
Oct-2015	20
Nov-2015	20
Dec-2015	20
Jan-2016	20
Feb-2016	20
Mar-2016	20
Apr-2016	20
May-2016	20
Jun-2016	19
Jul-2016	19
Aug-2016	19
Sep-2016	19
Oct-2016	19
Nov-2016	19
Dec-2016	19
Jan-2017	19
Feb-2017	19
Mar-2017	19
Apr-2017	19
May-2017	19
Jun-2017	19
Jul-2017	19
Aug-2017	19
Sep-2017	19
Oct-2017	19
Nov-2017	19
Dec-2017	18

Month	Gas Volume
Jan-2018	18
Feb-2018	18
Mar-2018	18
Apr-2018	18
May-2018	18
Jun-2018	18
Jul-2018	18
Aug-2018	18
Sep-2018	18
Oct-2018	18
Nov-2018	17
Dec-2018	17
Jan-2019	17
Feb-2019	17
Mar-2019	17
Apr-2019	17
May-2019	17
Jun-2019	17
Jul-2019	17
Aug-2019	17
Sep-2019	17
Oct-2019	17
Nov-2019	16
Dec-2019	16
Jan-2020	16
Feb-2020	16
Mar-2020	16
Apr-2020	16
May-2020	16
Jun-2020	16
Jul-2020	16
Aug-2020	16
Sep-2020	16
Oct-2020	16
Nov-2020	15
Dec-2020	15

Heaton Com B #2 **Future Production Decline Estimate Dakota** **(Monthly Factor .319%)**

Month	Gas Volume
Jan-2021	15
Feb-2021	15
Mar-2021	15
Apr-2021	15
May-2021	15
Jun-2021	15
Jul-2021	15
Aug-2021	15
Sep-2021	15
Oct-2021	15
Nov-2021	15
Dec-2021	15
Jan-2022	14
Feb-2022	14
Mar-2022	14
Apr-2022	14
May-2022	14
Jun-2022	14
Jul-2022	14
Aug-2022	14
Sep-2022	14
Oct-2022	14
Nov-2022	14
Dec-2022	14
Jan-2023	14
Feb-2023	14
Mar-2023	13
Apr-2023	13
May-2023	13
Jun-2023	13
Jul-2023	13
Aug-2023	13
Sep-2023	13
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	12
Jul-2024	12
Aug-2024	12
Sep-2024	12
Oct-2024	12
Nov-2024	12
Dec-2024	12
Jan-2025	12
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	11
Dec-2025	11
Jan-2026	11
Feb-2026	11
Mar-2026	11
Apr-2026	11
May-2026	11
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	10
Jun-2027	10
Jul-2027	10
Aug-2027	10
Sep-2027	10
Oct-2027	10
Nov-2027	10
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	9
Feb-2029	9
Mar-2029	9
Apr-2029	9
May-2029	9
Jun-2029	9
Jul-2029	9
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	8
Nov-2030	8
Dec-2030	8
Jan-2031	8
Feb-2031	8
Mar-2031	8
Apr-2031	8
May-2031	8
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	7
Dec-2032	7