

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0135
Expires: November 30, 2000**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.*5. Lease Serial No.
NMSF - 078040

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

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

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No.

MUDGE GAS COM D 1

2. Name of Operator

AMOCO PRODUCTION COMPANY

Contact: MARY CORLEY

E-Mail: corleym@blm.gov

9. API Well No.

30-045-28626

3a. Address

P.O. BOX 3092
HOUSTON, TX 77253

3b. Phone No. (include area code)

Ph: 281.366.4491

Fx: 281.366.6700

10. Field and Pool, or Exploratory

BASIN DAKOTA/FC & BLANCO MV

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 12 T31N R11W NWNE 920FNL 1670FEL

11. County or Parish, and State

SAN JUAN COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Subsurface Commi
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	ng

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.)

Amoco Production Company request permission to add a completion in the Blanco Mesaverde Pool and trimingle production downhole with the existing Basin Dakota and Basin Fruitland Coal Pools as per the attach procedure.

Form C-107A is also being submitted to the NMOCD for permission to trimingle under a separate application.

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

Production is proposed to be allocated based on the subtraction method using the projected future

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #8637 verified by the BLM Well Information System
For AMOCO PRODUCTION COMPANY, sent to the Farmington
Committed to AFMSS for processing by Lucy Bee on 11/07/2001 ()

Name (Printed/Typed) MARY CORLEY

Title AUTHORIZED REPRESENTATIVE

Signature (Electronic Submission)

Date 11/06/2001

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

Title

Pet. Eng

Date

11/16/01

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

FEO

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.

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NMOCD

Additional data for EC transaction #8637 that would not fit on the form

32. Additional remarks, continued

decline for production from both the Basin Dakota and Basin Fruitland Coal Pools. That production shall serve as a base for production subtracted from total production for the trimingled well. The balance of the production will be attributed to the Blanco Mesaverde. Attached is the future decline estimate for the Dakota and Fruitland Coal Pools.

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

Mudge GC D #1 Recompletion 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. TOH with 2-3/8" long string production tubing currently set at 7400'.
6. TOH with 1-1/4" short string production tubing set at 2805'.
7. TIH with tubing and packer plucker. Remove 4-1/2" Baker Model 'D' packer set @ 3164'.
8. TIH with bit and scraper for 4-1/2" casing to 5600'.
9. RU WL unit. RIH with 4-1/2" wireline-set CIBP. Set CIBP @ 5600'. Load hole with 2% KCL.
10. Run GR/TDT log over Mesaverde interval (4000' - 5600').
11. Run CBL over MV interval (4000' - 5600') to ensure zonal isolation across the MV.
12. RIH with 3-1/8" casing guns. Perforate Point Lookout/Menefee formation.
Perforations to be determined from GR/TDT log.
13. RIH with 3-1/2" X 2-3/8" tapered frac string and 4-1/2" packer. Set packer at depth to be determined after logging.
14. RU frac equipment. Use 2% KCL-N2 foam in fracture stimulation.
15. Spearhead 500 gal 15% HCL, establish injection rate, and proceed with fracture stimulation according to Schlumberger schedule.
16. Flowback frac immediately.
17. TOH with frac string and packer.
18. RU WL unit. RIH and set 4-1/2" CIBP between Point Lookout/Menefee and Cliffhouse at depth to be determined after logging.
19. RIH with 3-1/8" casing guns. Perforate Cliffhouse formation.
Perforations to be determined from GR/TDT log.
20. RIH with 3-1/2" X 2-3/8" tapered frac string and 4-1/2" packer. Set packer at depth to be determined after logging.
21. RU frac equipment. Use 2% KCL/N2 foam in fracture stimulation.
22. Spearhead 500 gal 15% HCL, establish injection rate, and proceed with fracture stimulation according to Schlumberger schedule.
23. Flowback frac immediately.
24. TOH with frac string and packer.
25. TIH with tubing and bit. Cleanout fill and drill bridge plugs. Cleanout fill to PBTD at 7474'. Blow well dry at PBTD.
26. Rabbit tubing and RIH with 2-3/8" production tubing. Land tubing at 7200'.

27. ND BOP's. NU WH. Test well for air. Return well to production and trimingle MV, Dakota, and Fruitland production.

Mudge GC D #1

T31N R11W Sec 12

API #: 30-045-28626

GL: 6071'

History:

Completed as DK/FRT dual in 7/92

Tubing: 1-1/4" @ 2805'

Fruitland Coal Perfs

2736' - 2744'

2773' - 2783'

frac'd w/ 71,000#'s sand

Liner top sqz'd w/
300 sxs cmt

Dakota Perforations

7190' - 7220' 6 spf

7274' - 7298' 6 spf

7411' - 7432' 6 spf

7449' - 7455' 6 spf

frac'd w/ 710,000 lbs sand

PBTD: 7474'

est. TOC @ surface (circ)

9-5/8" 36# K55 LT&C @ 432'
250 sxs cmt (circulated)

est. TOC @ surf.

DV sct @ 1460'
2nd stage: 435 sxs cmt (circ)

Est. TOC unknown

Est. TOC unknown
4-1/2" liner hanger @ 3155'

7" 23# K55 LT&C @ 3470'
1st stage: 850 sxs cmt sxs cmt

Unknown type Packer @ 3164'
(most-likely Model 'D')

Est. TOC unknown

Tubing: 2-3/8" @ 7400'

4-1/2" liner, 11.6#, N80 LT&C @ 7485'
600 sxs cmt

NOTES:

1) 2-3/8" long string has blast joints at 2735' - 2795'

updated: 9/25/01 jad

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

Form C-102
Revised August 15, 2000

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-28626		² Pool Code 72319	³ Pool Name Blanco Mesaverde
⁴ Property Code 000910	⁵ Property Name Mudge Gas Com D		⁶ Well Number 1
⁷ OGRID No. 000778	⁸ Operator Name Amoco Production Company		⁹ Elevation 6071

¹⁰ Surface Location									
UL or lot no. Unit B	Section 12	Township 31N	Range 11W	Lot Idn	Feet from 920	North/South North	Feet from 1670	East/West East	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

				⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Mary Corley Signature Mary Corley Printed Name Sr. Regulatory Analyst Title 11/6/2001 Date
				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. 6/5/1990 Date of Survey Signature and Seal of Professional Surveyor: Gary D. Vann 7016 Certificate Number

Mudge Gas Com D 1

Future Production Decline Estimate Fruitland (Monthly Factor .336%)

$\ln(Q_f/Q_i) = -dt$
 $Q_i = 30 \text{ MCFD (04/2001)}$
 $Q_f = 29 \text{ MCFD (09/2001)}$
 $t = 5 \text{ months (.41666 yrs)}$
 $d = 0.32 \text{ annual decline}$
 $0.027 \text{ monthly decline (0.32/12)}$

Corrected Volumes
 $29/30 = 0.96667$
 $.9667 * .41666 = .40277$
 0.03356

Month	Gas Volume
Jan-2001	24
Feb-2001	32
Mar-2001	29
Apr-2001	30
May-2001	31
Jun-2001	6
Jul-2001	54
Aug-2001	37
Sep-2001	29
Oct-2001	37
Nov-2001	37
Dec-2001	37
Jan-2002	37
Feb-2002	37
Mar-2002	37
Apr-2002	37
May-2002	37
Jun-2002	37
Jul-2002	37
Aug-2002	37
Sep-2002	37
Oct-2002	37
Nov-2002	37
Dec-2002	36
Jan-2003	36
Feb-2003	36
Mar-2003	36
Apr-2003	36
May-2003	36
Jun-2003	36
Jul-2003	36
Aug-2003	36
Sep-2003	36
Oct-2003	36
Nov-2003	35
Dec-2003	35

Month	Gas Volume
Jan-2004	35
Feb-2004	35
Mar-2004	35
Apr-2004	35
May-2004	35
Jun-2004	35
Jul-2004	35
Aug-2004	35
Sep-2004	35
Oct-2004	34
Nov-2004	34
Dec-2004	34
Jan-2005	34
Feb-2005	34
Mar-2005	34
Apr-2005	34
May-2005	34
Jun-2005	34
Jul-2005	34
Aug-2005	34
Sep-2005	33
Oct-2005	33
Nov-2005	33
Dec-2005	33
Jan-2006	33
Feb-2006	33
Mar-2006	33
Apr-2006	33
May-2006	33
Jun-2006	33
Jul-2006	33
Aug-2006	33
Sep-2006	32
Oct-2006	32
Nov-2006	32
Dec-2006	32

Month	Gas Volume
Jan-2007	32
Feb-2007	32
Mar-2007	32
Apr-2007	32
May-2007	32
Jun-2007	31
Jul-2007	31
Aug-2007	31
Sep-2007	31
Oct-2007	31
Nov-2007	31
Dec-2007	31
Jan-2008	31
Feb-2008	31
Mar-2008	31
Apr-2008	30
May-2008	30
Jun-2008	30
Jul-2008	30
Aug-2008	30
Sep-2008	30
Oct-2008	30
Nov-2008	30
Dec-2008	30
Jan-2009	29
Feb-2009	29
Mar-2009	29
Apr-2009	29
May-2009	29
Jun-2009	29
Jul-2009	29
Aug-2009	29
Sep-2009	29
Oct-2009	29
Nov-2009	28
Dec-2009	28

Mudge Gas Com D 1

Future Production Decline Estimate Fruitland (Monthly Factor .336%)

Month	Gas Volume
Jan-2010	28
Feb-2010	28
Mar-2010	28
Apr-2010	28
May-2010	28
Jun-2010	28
Jul-2010	28
Aug-2010	28
Sep-2010	28
Oct-2010	27
Nov-2010	27
Dec-2010	27
Jan-2011	27
Feb-2011	27
Mar-2011	27
Apr-2011	27
May-2011	27
Jun-2011	27
Jul-2011	27
Aug-2011	26
Sep-2011	26
Oct-2011	26
Nov-2011	26
Dec-2011	26
Jan-2012	26
Feb-2012	26
Mar-2012	26
Apr-2012	26
May-2012	26
Jun-2012	26
Jul-2012	26
Aug-2012	25
Sep-2012	25
Oct-2012	25
Nov-2012	25
Dec-2012	25

Month	Gas Volume
Jan-2013	25
Feb-2013	25
Mar-2013	25
Apr-2013	25
May-2013	25
Jun-2013	25
Jul-2013	25
Aug-2013	24
Sep-2013	24
Oct-2013	24
Nov-2013	24
Dec-2013	24
Jan-2014	24
Feb-2014	24
Mar-2014	24
Apr-2014	24
May-2014	24
Jun-2014	24
Jul-2014	24
Aug-2014	24
Sep-2014	24
Oct-2014	23
Nov-2014	23
Dec-2014	23
Jan-2015	23
Feb-2015	23
Mar-2015	23
Apr-2015	23
May-2015	23
Jun-2015	23
Jul-2015	23
Aug-2015	23
Sep-2015	23
Oct-2015	23
Nov-2015	23
Dec-2015	22

Month	Gas Volume
Jan-2016	22
Feb-2016	22
Mar-2016	22
Apr-2016	22
May-2016	22
Jun-2016	22
Jul-2016	22
Aug-2016	22
Sep-2016	22
Oct-2016	22
Nov-2016	22
Dec-2016	22
Jan-2017	22
Feb-2017	22
Mar-2017	22
Apr-2017	21
May-2017	21
Jun-2017	21
Jul-2017	21
Aug-2017	21
Sep-2017	21
Oct-2017	21
Nov-2017	21
Dec-2017	21
Jan-2018	21
Feb-2018	21
Mar-2018	21
Apr-2018	21
May-2018	21
Jun-2018	21
Jul-2018	20
Aug-2018	20
Sep-2018	20
Oct-2018	20
Nov-2018	20
Dec-2018	20

Month	Gas Volume
Jan-2019	20
Feb-2019	20
Mar-2019	20
Apr-2019	20
May-2019	20
Jun-2019	20
Jul-2019	19
Aug-2019	19
Sep-2019	19
Oct-2019	19
Nov-2019	19
Dec-2019	19
Jan-2020	19
Feb-2020	19
Mar-2020	19
Apr-2020	19
May-2020	19
Jun-2020	18
Jul-2020	18
Aug-2020	18
Sep-2020	18
Oct-2020	18
Nov-2020	18
Dec-2020	18
Jan-2021	18
Feb-2021	18
Mar-2021	18
Apr-2021	18
May-2021	17
Jun-2021	17
Jul-2021	17
Aug-2021	17
Sep-2021	17
Oct-2021	17
Nov-2021	17
Dec-2021	17

Mudge Gas Com D 1

Future Production Decline Estimate Fruitland (Monthly Factor .336%)

Month	Gas Volume
Jan-2022	17
Feb-2022	17
Mar-2022	17
Apr-2022	17
May-2022	16
Jun-2022	16
Jul-2022	16
Aug-2022	16
Sep-2022	16
Oct-2022	16
Nov-2022	16
Dec-2022	16
Jan-2023	16
Feb-2023	16
Mar-2023	16
Apr-2023	16
May-2023	15
Jun-2023	15
Jul-2023	15
Aug-2023	15
Sep-2023	15
Oct-2023	15
Nov-2023	15
Dec-2023	15
Jan-2024	15
Feb-2024	15
Mar-2024	15
Apr-2024	15
May-2024	15
Jun-2024	15
Jul-2024	14
Aug-2024	14
Sep-2024	14
Oct-2024	14
Nov-2024	14
Dec-2024	14

Month	Gas Volume
Jan-2025	14
Feb-2025	14
Mar-2025	14
Apr-2025	14
May-2025	14
Jun-2025	14
Jul-2025	14
Aug-2025	14
Sep-2025	13
Oct-2025	13
Nov-2025	13
Dec-2025	13
Jan-2026	13
Feb-2026	13
Mar-2026	13
Apr-2026	13
May-2026	13
Jun-2026	13
Jul-2026	13
Aug-2026	13
Sep-2026	13
Oct-2026	13
Nov-2026	13
Dec-2026	12
Jan-2027	12
Feb-2027	12
Mar-2027	12
Apr-2027	12
May-2027	12
Jun-2027	12
Jul-2027	12
Aug-2027	12
Sep-2027	12
Oct-2027	12
Nov-2027	12
Dec-2027	12

Month	Gas Volume
Jan-2028	12
Feb-2028	12
Mar-2028	12
Apr-2028	12
May-2028	11
Jun-2028	11
Jul-2028	11
Aug-2028	11
Sep-2028	11
Oct-2028	11
Nov-2028	11
Dec-2028	11
Jan-2029	11
Feb-2029	11
Mar-2029	11
Apr-2029	11
May-2029	11
Jun-2029	11
Jul-2029	11
Aug-2029	11
Sep-2029	11
Oct-2029	11
Nov-2029	10
Dec-2029	10
Jan-2030	10
Feb-2030	10
Mar-2030	10
Apr-2030	10
May-2030	10
Jun-2030	10
Jul-2030	10
Aug-2030	10
Sep-2030	10
Oct-2030	10
Nov-2030	10
Dec-2030	10

Month	Gas Volume
Jan-2031	10
Feb-2031	10
Mar-2031	10
Apr-2031	10
May-2031	10
Jun-2031	9
Jul-2031	9
Aug-2031	9
Sep-2031	9
Oct-2031	9
Nov-2031	9
Dec-2031	9
Jan-2032	9
Feb-2032	9
Mar-2032	9
Apr-2032	9
May-2032	9
Jun-2032	9
Jul-2032	9
Aug-2032	9
Sep-2032	9
Oct-2032	9
Nov-2032	9
Dec-2032	9
Jan-2033	9
Feb-2033	9
Mar-2033	9
Apr-2033	8
May-2033	8
Jun-2033	8
Jul-2033	8
Aug-2033	8
Sep-2033	8
Oct-2033	8
Nov-2033	8
Dec-2033	8

Mudge Gas Com D 1

11/6/2001

Future Production Decline Estimate Dakota (Monthly Factor .304%)

$$\ln(Q_f/Q_i) = -dt$$

$$Q_i = 96 \text{ MCFD (04/2001)}$$

$$Q_f = 84 \text{ MCFD (09/2001)}$$

$$t = 5 \text{ months (.41666 yrs)}$$

$$d = 0.32 \text{ annual decline}$$

$$0.027 \text{ monthly decline (0.32/12)}$$

Corrected Volumes

$$84/96 = 0.87500$$

$$.875 * .41666 = .36458$$

$$0.030381667$$

Month	Gas Volume
Jan-2001	147
Feb-2001	105
Mar-2001	100
Apr-2001	96
May-2001	97
Jun-2001	77
Jul-2001	81
Aug-2001	83
Sep-2001	84
Oct-2001	80
Nov-2001	80
Dec-2001	80
Jan-2002	80
Feb-2002	80
Mar-2002	80
Apr-2002	80
May-2002	80
Jun-2002	80
Jul-2002	80
Aug-2002	80
Sep-2002	80
Oct-2002	79
Nov-2002	79
Dec-2002	79
Jan-2003	79
Feb-2003	79
Mar-2003	78
Apr-2003	78
May-2003	78
Jun-2003	78
Jul-2003	77
Aug-2003	77
Sep-2003	77
Oct-2003	77
Nov-2003	77
Dec-2003	76

Month	Gas Volume
Jan-2004	76
Feb-2004	76
Mar-2004	76
Apr-2004	76
May-2004	75
Jun-2004	75
Jul-2004	75
Aug-2004	75
Sep-2004	75
Oct-2004	74
Nov-2004	74
Dec-2004	74
Jan-2005	74
Feb-2005	74
Mar-2005	74
Apr-2005	73
May-2005	73
Jun-2005	73
Jul-2005	73
Aug-2005	73
Sep-2005	72
Oct-2005	72
Nov-2005	72
Dec-2005	72
Jan-2006	72
Feb-2006	71
Mar-2006	71
Apr-2006	71
May-2006	71
Jun-2006	71
Jul-2006	70
Aug-2006	70
Sep-2006	70
Oct-2006	70
Nov-2006	70
Dec-2006	70

Month	Gas Volume
Jan-2007	69
Feb-2007	69
Mar-2007	69
Apr-2007	69
May-2007	68
Jun-2007	68
Jul-2007	68
Aug-2007	68
Sep-2007	67
Oct-2007	67
Nov-2007	67
Dec-2007	67
Jan-2008	66
Feb-2008	66
Mar-2008	66
Apr-2008	66
May-2008	66
Jun-2008	65
Jul-2008	65
Aug-2008	65
Sep-2008	65
Oct-2008	64
Nov-2008	64
Dec-2008	64
Jan-2009	64
Feb-2009	64
Mar-2009	63
Apr-2009	63
May-2009	63
Jun-2009	63
Jul-2009	62
Aug-2009	62
Sep-2009	62
Oct-2009	62
Nov-2009	62
Dec-2009	61