

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM 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.

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well ☐ Oil Well ☒ Gas Well Other		5. Lease Serial No. I-149-IND-8470
2. Name of Operator AMOCO PRODUCTION COMPANY		6. If Indian, Allottee or Tribe Name
3a. Address P.O. BOX 3092 HOUSTON, TX 77253	3b. Phone No. (include area code) 281.366.4491	7. If Unit or CA/Agreement Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 970FWL 830FSL M-30-28-12		8. Well Name and No. GALLEGOS CANYON UNIT 193E
		9. API Well No. 3004525173
		10. Field and Pool, or Exploratory Area BASIN DAKOTA & FRUITLAND COAL
		11. County or Parish, and State SAN JUAN 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	☒ SUBCOM
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

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 complete the subject well into the Basin Fruitland Coal and commingle production downhole with the existing Basin Dakota Pool as per the attached procedure. The Basin Dakota (71599) & the Basin Fruitland Coal (71629) Pools are Pre-Approved for Downhole Commingling per NMOCD Order R - 11363. Although the interest owners are not identical between these two Pools, NMOCD CASE NO. 12520, ORDER NO. R-11567 effective 04/26/2001, established approval for subsequent applications for the downhole commingling of production in wellbores within the Gallegos Canyon Unit without notice to the unit interest owners, therefore, additional notification is required prior to downhole commingling approval. 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 Fruitland Coal. Attached is the future production decline estimates for the Dakota. Commingling

Electronic Submission #4101 verified by the BLM Well Information System for AMOCO PRODUCTION COMPANY Sent to the Farmington Field Office
Committed to AFMSS for processing by Maurice Johnson on 05/11/2001

Name (Printed/Typed) MARY CORLEY	Title AUTHORIZED REPRESENTATIVE
Signature /s/ Jim Lovato	Date 05/08/2001

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By	Title MAY 23 2001
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

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240
DISTRICT II
311 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 and Natural Resources Department

OIL CONSERVATION DIVISION

2040 South Pacheco
Santa Fe, New Mexico 87505

Form C-102
Revised October 18, 1994
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-045-25173	Pool Code 71599 & 71629	Pool Name Basin Dakota & Basin Fruitland Coal
Property Code: 000570	Property Name Gallegos Canyon Unit	Well Number 193E
OGRID No. 000778	Operator Name AMOCO PRODUCTION COMPANY	Elevation 5730'

Surface Location

UL or lot no. UNIT M	Section 30	Township 28N	Range 12W	Lot. Idn	Feet from the 830'	North/South Line SOUTH	Feet from the 970'	East/West Line WEST	County San Juan
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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
Dedicated Acreage: 304.60		Joint or Infill		Consolidation Code		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

	OPERATOR CERTIFICATION	
	I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief	
	Signature	
	Printed Name	Mary Corley
	Position	Sr. Regulatory Analyst
	Date	05/02/2001
	SURVEY 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 knowledge and belief.	
	12-06-1980	
	Date of Survey	
	Signature & Seal of Professional Surveyor	
	Fred B Kerr Jr.	
	Certificate No. 3950	

Gallegos Canyon Unit 193E

Future Production Decline Estimate (Monthly Factor .260%)

Month	Gas Volume
Jan-2000	55
Feb-2000	25
Mar-2000	98
Apr-2000	44
May-2000	35
Jun-2000	18
Jul-2000	28
Aug-2000	25
Sep-2000	33
Oct-2000	59
Nov-2000	60
Dec-2000	52
Jan-2001	43
Feb-2001	0
Mar-2001	0
Apr-2001	31
May-2001	31
Jun-2001	31
Jul-2001	31
Aug-2001	31
Sep-2001	31
Oct-2001	31
Nov-2001	30
Dec-2001	30
Jan-2002	30
Feb-2002	30
Mar-2002	30
Apr-2002	30
May-2002	30
Jun-2002	30
Jul-2002	30
Aug-2002	30
Sep-2002	30
Oct-2002	30
Nov-2002	29
Dec-2002	29

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

$$Q_i = 44 \text{ MCFD (04/2000)}$$

$$Q_f = 33 \text{ MCFD (09/2000)}$$

$$t = 6 \text{ months (.41666 yrs)}$$

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

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

Corrected Volumes

$$33/44 = 0.75000$$

$$750 * .41666 = 312495$$

$$0.02604125$$

SHUT IN
SHUT IN

Month	Gas Volume
Jan-2003	29
Feb-2003	29
Mar-2003	29
Apr-2003	29
May-2003	29
Jun-2003	29
Jul-2003	29
Aug-2003	29
Sep-2003	29
Oct-2003	29
Nov-2003	29
Dec-2003	28
Jan-2004	28
Feb-2004	28
Mar-2004	28
Apr-2004	28
May-2004	28
Jun-2004	28
Jul-2004	28
Aug-2004	28
Sep-2004	28
Oct-2004	28
Nov-2004	28
Dec-2004	28
Jan-2005	28
Feb-2005	27
Mar-2005	27
Apr-2005	27
May-2005	27
Jun-2005	27
Jul-2005	27
Aug-2005	27
Sep-2005	27
Oct-2005	27
Nov-2005	27
Dec-2005	27

Month	Gas Volume
Jan-2006	27
Feb-2006	27
Mar-2006	26
Apr-2006	26
May-2006	26
Jun-2006	26
Jul-2006	26
Aug-2006	26
Sep-2006	26
Oct-2006	26
Nov-2006	26
Dec-2006	26
Jan-2007	26
Feb-2007	25
Mar-2007	25
Apr-2007	25
May-2007	25
Jun-2007	25
Jul-2007	25
Aug-2007	25
Sep-2007	25
Oct-2007	25
Nov-2007	25
Dec-2007	25
Jan-2008	25
Feb-2008	24
Mar-2008	24
Apr-2008	24
May-2008	24
Jun-2008	24
Jul-2008	24
Aug-2008	24
Sep-2008	24
Oct-2008	24
Nov-2008	24
Dec-2008	24

Gallegos Canyon Unit 193E

5/8/01

Future Production Decline Estimate (Monthly Factor .260%)

Month	Gas Volume
Jan-2009	24
Feb-2009	23
Mar-2009	23
Apr-2009	23
May-2009	23
Jun-2009	23
Jul-2009	23
Aug-2009	23
Sep-2009	23
Oct-2009	23
Nov-2009	23
Dec-2009	23
Jan-2010	23
Feb-2010	22
Mar-2010	22
Apr-2010	22
May-2010	22
Jun-2010	22
Jul-2010	22
Aug-2010	22
Sep-2010	22
Oct-2010	22
Nov-2010	22
Dec-2010	22
Jan-2011	22
Feb-2011	22
Mar-2011	22
Apr-2011	21
May-2011	21
Jun-2011	21
Jul-2011	21
Aug-2011	21
Sep-2011	21
Oct-2011	21
Nov-2011	21
Dec-2011	21

Month	Gas Volume
Jan-2012	21
Feb-2012	21
Mar-2012	21
Apr-2012	21
May-2012	21
Jun-2012	20
Jul-2012	20
Aug-2012	20
Sep-2012	20
Oct-2012	20
Nov-2012	20
Dec-2012	20
Jan-2013	20
Feb-2013	20
Mar-2013	20
Apr-2013	20
May-2013	20
Jun-2013	20
Jul-2013	20
Aug-2013	20
Sep-2013	20
Oct-2013	20
Nov-2013	19
Dec-2013	19
Jan-2014	19
Feb-2014	19
Mar-2014	19
Apr-2014	19
May-2014	19
Jun-2014	19
Jul-2014	19
Aug-2014	19
Sep-2014	19
Oct-2014	19
Nov-2014	19
Dec-2014	19

Month	Gas Volume
Jan-2015	19
Feb-2015	19
Mar-2015	19
Apr-2015	18
May-2015	18
Jun-2015	18
Jul-2015	18
Aug-2015	18
Sep-2015	18
Oct-2015	18
Nov-2015	18
Dec-2015	18
Jan-2016	18
Feb-2016	18
Mar-2016	18
Apr-2016	18
May-2016	18
Jun-2016	18
Jul-2016	18
Aug-2016	18
Sep-2016	18
Oct-2016	18
Nov-2016	17
Dec-2016	17
Jan-2017	17
Feb-2017	17
Mar-2017	17
Apr-2017	17
May-2017	17
Jun-2017	17
Jul-2017	17
Aug-2017	17
Sep-2017	17
Oct-2017	17
Nov-2017	17
Dec-2017	17

Month	Gas Volume
Jan-2018	17
Feb-2018	17
Mar-2018	17
Apr-2018	16
May-2018	16
Jun-2018	16
Jul-2018	16
Aug-2018	16
Sep-2018	16
Oct-2018	16
Nov-2018	16
Dec-2018	16
Jan-2019	16
Feb-2019	16
Mar-2019	16
Apr-2019	15
May-2019	15
Jun-2019	15
Jul-2019	15
Aug-2019	15
Sep-2019	15
Oct-2019	15
Nov-2019	15
Dec-2019	15
Jan-2020	15
Feb-2020	15
Mar-2020	15
Apr-2020	15
May-2020	15
Jun-2020	14
Jul-2020	14
Aug-2020	14
Sep-2020	14
Oct-2020	14
Nov-2020	14
Dec-2020	14

Gallegos Canyon Unit 193E

Future Production Decline Estimate (Monthly Factor .260%)

Month	Gas Volume
Jan-2021	14
Feb-2021	14
Mar-2021	14
Apr-2021	14
May-2021	14
Jun-2021	14
Jul-2021	14
Aug-2021	13
Sep-2021	13
Oct-2021	13
Nov-2021	13
Dec-2021	13
Jan-2022	13
Feb-2022	13
Mar-2022	13
Apr-2022	13
May-2022	13
Jun-2022	13
Jul-2022	13
Aug-2022	13
Sep-2022	13
Oct-2022	13
Nov-2022	12
Dec-2022	12
Jan-2023	12
Feb-2023	12
Mar-2023	12
Apr-2023	12
May-2023	12
Jun-2023	12
Jul-2023	12
Aug-2023	12
Sep-2023	12
Oct-2023	12
Nov-2023	12
Dec-2023	12

Month	Gas Volume
Jan-2024	12
Feb-2024	12
Mar-2024	12
Apr-2024	11
May-2024	11
Jun-2024	11
Jul-2024	11
Aug-2024	11
Sep-2024	11
Oct-2024	11
Nov-2024	11
Dec-2024	11
Jan-2025	11
Feb-2025	11
Mar-2025	11
Apr-2025	11
May-2025	11
Jun-2025	11
Jul-2025	11
Aug-2025	11
Sep-2025	11
Oct-2025	10
Nov-2025	10
Dec-2025	10
Jan-2026	10
Feb-2026	10
Mar-2026	10
Apr-2026	10
May-2026	10
Jun-2026	10
Jul-2026	10
Aug-2026	10
Sep-2026	10
Oct-2026	10
Nov-2026	10
Dec-2026	10

Month	Gas Volume
Jan-2027	10
Feb-2027	10
Mar-2027	10
Apr-2027	10
May-2027	10
Jun-2027	9
Jul-2027	9
Aug-2027	9
Sep-2027	9
Oct-2027	9
Nov-2027	9
Dec-2027	9
Jan-2028	9
Feb-2028	9
Mar-2028	9
Apr-2028	9
May-2028	9
Jun-2028	9
Jul-2028	9
Aug-2028	9
Sep-2028	9
Oct-2028	9
Nov-2028	9
Dec-2028	9
Jan-2029	9
Feb-2029	9
Mar-2029	9
Apr-2029	8
May-2029	8
Jun-2029	8
Jul-2029	8
Aug-2029	8
Sep-2029	8
Oct-2029	8
Nov-2029	8
Dec-2029	8

Month	Gas Volume
Jan-2030	8
Feb-2030	8
Mar-2030	8
Apr-2030	8
May-2030	8
Jun-2030	8
Jul-2030	8
Aug-2030	8
Sep-2030	8
Oct-2030	8
Nov-2030	8
Dec-2030	8
Jan-2031	8
Feb-2031	8
Mar-2031	8
Apr-2031	7
May-2031	7
Jun-2031	7
Jul-2031	7
Aug-2031	7
Sep-2031	7
Oct-2031	7
Nov-2031	7
Dec-2031	7
Jan-2032	7
Feb-2032	7
Mar-2032	7
Apr-2032	7
May-2032	7
Jun-2032	7
Jul-2032	7
Aug-2032	7
Sep-2032	7
Oct-2032	7
Nov-2032	7
Dec-2032	7

Gallegos Canyon Unit #193E Well Work Procedure

Objective:

Recomplete in Fruitland Coal and downhole commingle with Dakota.

Note: Prior to scheduling rig, confirm that surface facility modifications have been initiated.

1. Check anchors. MIRU.
2. Check and record tubing, casing and bradenhead pressures.
3. Blow down wellhead, kill if necessary with 2% KCL water.
4. Nipple down wellhead, nipple up and pressure test BOP.
5. Tag for fill. Tally out of hole with tubing. Visually inspect. Replace tubing as required.
6. RIH with bit and scraper. Clean out to PBTD as necessary.
7. Set CIBP via tubing at approximately 5800'. Load hole with 2%KCL and pressure test to 500#.
8. Run CBL/GR/CCL across Fruitland Coal interval to verify zonal isolation. (Note:DV tool at 4275') Fax results to John Papageorge @ 281-366-7099.
9. Set RBP approximately 150' below bottom of proposed perforations and pressure test.
10. Perforate the following interval with 4JSPF, 120 deg. phasing: **FRLD 1326-1328', 1334-1338, 1362-1378'**.
11. RU frac equipment and install WH isolation tool. Fracture stimulate down casing according to schedule 'A'.
12. Flow back frac load until well dies.
13. RIH with bit and tubing. Clean out fill. Pull REP and drill out CIBP to commingle with Dakota.
14. TIH with 2 3/8" tbg, rods, and pump. Land 1 joint below Dakota perms if possible.
15. RDMO. Hook up to pumping unit and well head compressor.
16. Pump to recover load and test.

GCU #193E

Wellbore Diagram

830' FSL x 970' FWL
Sec. 30, T28N, R12W
San Juan Co., NM

