

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.

30-045-30276

5. Indicate Type of Lease

STATE ☐ FEE

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name:

Gallegos Canyon Unit (Federal Well
SF-078780 also filed on BLM Form
3160-5)

8. Well No.

551

9. Pool name or Wildcat

Kutz PC, West & Pinon Fruitld Sand

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-100) FOR SUCH
PROPOSALS.)

1. Type of Well:

Oil Well ☐ Gas Well ☒ Other

2. Name of Operator

Amoco Production Company

Attn: Cherry Hlava

3. Address of Operator

P.O. Box 3092 Houston, TX 77253

4. Well Location

Unit Letter I 1490 feet from the South line and 1170 feet from the East line

Section 18 Township 28N Range 11W NMPM San Juan County

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

5552'

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 Pictured Cliffs & DHC ☒

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 Pinon Fruitland Sand and commingle production downhole with the existing Kutz Pictured Cliffs, West Pool as per the attached procedure.

The Kutz Pictured Cliffs (79680) & the Pinon Fruitland Sand (82880) Pools are Pre-Approved for Downhole Commingling per NMOC Order R - 11567 effective 04/26/2001. Although the interest owners are not identical between these two Pools, this same order, established approval for subsequent applications for the DHC of production in wellbores within the GCU without notice to the unit interest owners, therefore, no additional notification is required prior to down hole commingling approval.

Production is proposed to be allocated based on the subtraction method using the projected future decline for production from the Pictured Cliffs Pools. 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 Sand. Attached is the future production decline estimates for the Pictured Cliffs.

Commingling Production Down hole 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 Cherry Hlava TITLE Permitting Analyst DATE 07/10/2001

Type or print name Cherry Hlava Telephone No. 281-366-4081

(This space for State use)

APPROVED BY Original Signed by STEVEN N. HAYDEN

TITLE DEPUTY OIL & GAS INSPECTOR, DIST. 3 DATE JUL 20 2001

Conditions of approval, if any:

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

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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

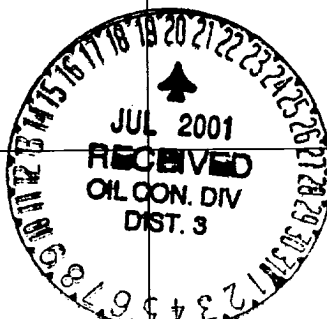
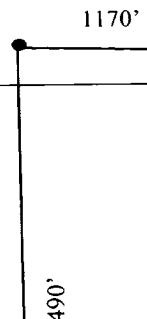
WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-30276	² Pool Code 79680 : 82880	³ Pool Name Katz Pictured Cliffs : Pinon Fruitland Sand
⁴ Property Code 000570	⁵ Property Name Gallegos Canyon Unit	
⁷ OGRID No. 000778	⁸ Operator Name Amoco Production Company	
		⁶ Well Number 551
		⁹ Elevation 5552

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
I	18	28N	11W		1490'	South	1170'	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 160 Ac.		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

¹⁶  	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Cherry Hlava Signature <i>Cherry L. Hlava</i> Printed Name Cherry Hlava Permitting Analyst Title 06/10/2001 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. October 29, 1998 Date of Survey Signature and Seal of Professional Surveyor: Gary D. Vann 7016 Certificate Number

Gallegos Canyon Unit #551

Well Work Procedure

Objective:

Recomplete in Fruitland Sand and downhole commingle with Pictured Cliffs.

1. Check anchors. MIRUSU.
2. Check and record tubing, casing and bradenhead pressures.
3. Blow down wellhead, kill if necessary with 2% KCL water.
4. POOH w/rods and pump. Nipple down wellhead, nipple up and pressure test BOP.
5. Tag for fill. Tally out of hole with tubing.
6. RIH with bit and scraper. Clean out to PBTD as necessary.
7. Set CIBP via tubing at approximately 1400'. Load hole with 2%KCL and pressure test to 500#.
8. Perforate the following interval with 2JSPF, 120 deg. phasing: **FRLD Sand 1238-1276'**. Correlate with Schlumberger TDT Log dated 9/19/00.
9. RU frac equipment. Fracture stimulate down casing according to schedule 'A'.
10. Flow back frac load until well dies.
11. RIH with bit and tubing. Clean out fill. Drill out CIBP to commingle with PC.
12. TIH with 2 3/8" tbg, rods, and pump. Land 1 joint below PC perforations. RDMOSU.
13. Pump to recover load and test.

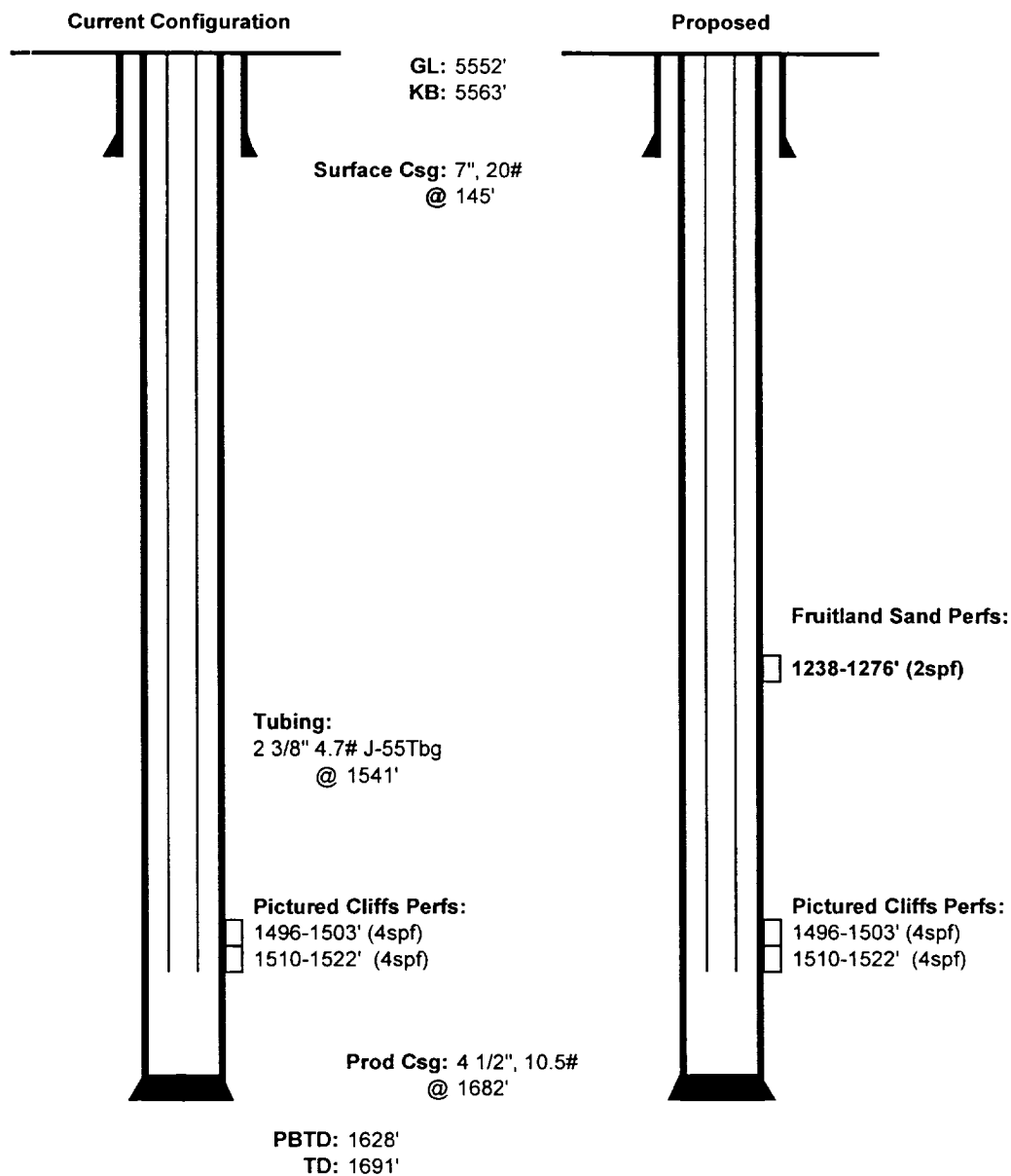
GCU #551

Wellbore Diagram

1490' FSL x 1170' FEL

Sec. 18, T28N, R11W

San Juan Co., NM



Gallegos Canyon Unit 551

Future Production Decline Estimate (Monthly Factor .260%)

Month	Gas Volume
Jan-2000	0
Feb-2000	0
Mar-2000	0
Apr-2000	0
May-2000	0
Jun-2000	0
Jul-2000	0
Aug-2000	0
Sep-2000	0
Oct-2000	0
Nov-2000	67
Dec-2000	0
Jan-2001	60
Feb-2001	76
Mar-2001	60
Apr-2001	98
May-2001	73
Jun-2001	65
Jul-2001	65
Aug-2001	64
Sep-2001	64
Oct-2001	64
Nov-2001	63
Dec-2001	63
Jan-2002	63
Feb-2002	63
Mar-2002	62
Apr-2002	62
May-2002	62
Jun-2002	61
Jul-2002	61
Aug-2002	61
Sep-2002	60
Oct-2002	60
Nov-2002	60
Dec-2002	60

$\ln(Q_f/Q_i) = -dt$
 $Q_i = 67 \text{ MCFD (11/2000)}$
 $Q_f = 65 \text{ MCFD (06/2001)}$
 $t = 6 \text{ months (.50000 yrs)}$
 $d = 0.32 \text{ annual decline}$
 $0.027 \text{ monthly decline (0.32/12)}$

Corrected Volumes

$65/67 = 0.970$
 $.970 * .50000 = .48500$
 0.0404167

Shut In

Month	Gas Volume
Jan-2003	59
Feb-2003	59
Mar-2003	59
Apr-2003	58
May-2003	58
Jun-2003	58
Jul-2003	58
Aug-2003	57
Sep-2003	57
Oct-2003	57
Nov-2003	56
Dec-2003	56
Jan-2004	56
Feb-2004	56
Mar-2004	55
Apr-2004	55
May-2004	55
Jun-2004	55
Jul-2004	54
Aug-2004	54
Sep-2004	54
Oct-2004	54
Nov-2004	53
Dec-2004	53
Jan-2005	53
Feb-2005	52
Mar-2005	52
Apr-2005	52
May-2005	52
Jun-2005	51
Jul-2005	51
Aug-2005	51
Sep-2005	51
Oct-2005	50
Nov-2005	50
Dec-2005	50

Month	Gas Volume
Jan-2006	50
Feb-2006	50
Mar-2006	49
Apr-2006	49
May-2006	49
Jun-2006	49
Jul-2006	49
Aug-2006	49
Sep-2006	48
Oct-2006	48
Nov-2006	48
Dec-2006	48
Jan-2007	48
Feb-2007	48
Mar-2007	47
Apr-2007	47
May-2007	47
Jun-2007	47
Jul-2007	47
Aug-2007	47
Sep-2007	46
Oct-2007	46
Nov-2007	46
Dec-2007	46
Jan-2008	46
Feb-2008	46
Mar-2008	46
Apr-2008	45
May-2008	45
Jun-2008	45
Jul-2008	45
Aug-2008	45
Sep-2008	45
Oct-2008	44
Nov-2008	44
Dec-2008	44

Gallegos Canyon Unit 551

Future Production Decline Estimate (Monthly Factor .260%)

Month	Gas Volume
Jan-2009	44
Feb-2009	44
Mar-2009	44
Apr-2009	44
May-2009	43
Jun-2009	43
Jul-2009	43
Aug-2009	43
Sep-2009	43
Oct-2009	43
Nov-2009	42
Dec-2009	42
Jan-2010	42
Feb-2010	42
Mar-2010	42
Apr-2010	42
May-2010	42
Jun-2010	41
Jul-2010	41
Aug-2010	41
Sep-2010	41
Oct-2010	41
Nov-2010	41
Dec-2010	41
Jan-2011	40
Feb-2011	40
Mar-2011	40
Apr-2011	40
May-2011	40
Jun-2011	40
Jul-2011	40
Aug-2011	40
Sep-2011	39
Oct-2011	39
Nov-2011	39
Dec-2011	39

Month	Gas Volume
Jan-2012	39
Feb-2012	39
Mar-2012	39
Apr-2012	39
May-2012	38
Jun-2012	38
Jul-2012	38
Aug-2012	38
Sep-2012	38
Oct-2012	38
Nov-2012	38
Dec-2012	38
Jan-2013	37
Feb-2013	37
Mar-2013	37
Apr-2013	37
May-2013	37
Jun-2013	37
Jul-2013	37
Aug-2013	37
Sep-2013	37
Oct-2013	36
Nov-2013	36
Dec-2013	36
Jan-2014	36
Feb-2014	36
Mar-2014	36
Apr-2014	36
May-2014	36
Jun-2014	36
Jul-2014	36
Aug-2014	35
Sep-2014	35
Oct-2014	35
Nov-2014	35
Dec-2014	35

Month	Gas Volume
Jan-2015	35
Feb-2015	35
Mar-2015	35
Apr-2015	35
May-2015	34
Jun-2015	34
Jul-2015	34
Aug-2015	34
Sep-2015	34
Oct-2015	34
Nov-2015	34
Dec-2015	34
Jan-2016	34
Feb-2016	34
Mar-2016	33
Apr-2016	33
May-2016	33
Jun-2016	33
Jul-2016	33
Aug-2016	33
Sep-2016	33
Oct-2016	33
Nov-2016	33
Dec-2016	33
Jan-2017	32
Feb-2017	32
Mar-2017	32
Apr-2017	32
May-2017	32
Jun-2017	32
Jul-2017	32
Aug-2017	32
Sep-2017	32
Oct-2017	32
Nov-2017	31
Dec-2017	31

Month	Gas Volume
Jan-2018	31
Feb-2018	31
Mar-2018	31
Apr-2018	31
May-2018	31
Jun-2018	30
Jul-2018	30
Aug-2018	30
Sep-2018	30
Oct-2018	30
Nov-2018	30
Dec-2018	30
Jan-2019	29
Feb-2019	29
Mar-2019	29
Apr-2019	29
May-2019	29
Jun-2019	29
Jul-2019	29
Aug-2019	28
Sep-2019	28
Oct-2019	28
Nov-2019	28
Dec-2019	28
Jan-2020	28
Feb-2020	28
Mar-2020	27
Apr-2020	27
May-2020	27
Jun-2020	27
Jul-2020	27
Aug-2020	27
Sep-2020	27
Oct-2020	26
Nov-2020	26
Dec-2020	26

Gallegos Canyon Unit 551

Future Production Decline Estimate (Monthly Factor .260%)

Month	Gas Volume
Jan-2021	26
Feb-2021	26
Mar-2021	26
Apr-2021	26
May-2021	26
Jun-2021	25
Jul-2021	25
Aug-2021	25
Sep-2021	25
Oct-2021	25
Nov-2021	25
Dec-2021	25
Jan-2022	25
Feb-2022	24
Mar-2022	24
Apr-2022	24
May-2022	24
Jun-2022	24
Jul-2022	24
Aug-2022	24
Sep-2022	24
Oct-2022	23
Nov-2022	23
Dec-2022	23
Jan-2023	23
Feb-2023	23
Mar-2023	23
Apr-2023	23
May-2023	23
Jun-2023	23
Jul-2023	22
Aug-2023	22
Sep-2023	22
Oct-2023	22
Nov-2023	22
Dec-2023	22

Month	Gas Volume
Jan-2024	22
Feb-2024	22
Mar-2024	22
Apr-2024	21
May-2024	21
Jun-2024	21
Jul-2024	21
Aug-2024	21
Sep-2024	21
Oct-2024	21
Nov-2024	21
Dec-2024	21
Jan-2025	21
Feb-2025	20
Mar-2025	20
Apr-2025	20
May-2025	20
Jun-2025	20
Jul-2025	20
Aug-2025	20
Sep-2025	20
Oct-2025	20
Nov-2025	19
Dec-2025	19
Jan-2026	19
Feb-2026	19
Mar-2026	19
Apr-2026	19
May-2026	19
Jun-2026	19
Jul-2026	19
Aug-2026	19
Sep-2026	19
Oct-2026	18
Nov-2026	18
Dec-2026	18

Month	Gas Volume
Jan-2027	18
Feb-2027	18
Mar-2027	18
Apr-2027	18
May-2027	18
Jun-2027	18
Jul-2027	18
Aug-2027	18
Sep-2027	17
Oct-2027	17
Nov-2027	17
Dec-2027	17
Jan-2028	17
Feb-2028	17
Mar-2028	17
Apr-2028	17
May-2028	17
Jun-2028	17
Jul-2028	17
Aug-2028	17
Sep-2028	16
Oct-2028	16
Nov-2028	16
Dec-2028	16
Jan-2029	16
Feb-2029	16
Mar-2029	16
Apr-2029	16
May-2029	16
Jun-2029	16
Jul-2029	16
Aug-2029	16
Sep-2029	15
Oct-2029	15
Nov-2029	15
Dec-2029	15

Month	Gas Volume
Jan-2030	15
Feb-2030	15
Mar-2030	15
Apr-2030	15
May-2030	15
Jun-2030	15
Jul-2030	15
Aug-2030	15
Sep-2030	15
Oct-2030	14
Nov-2030	14
Dec-2030	14
Jan-2031	14
Feb-2031	14
Mar-2031	14
Apr-2031	14
May-2031	14
Jun-2031	14
Jul-2031	14
Aug-2031	14
Sep-2031	14
Oct-2031	14
Nov-2031	14
Dec-2031	13
Jan-2032	13
Feb-2032	13
Mar-2032	13
Apr-2032	13
May-2032	13
Jun-2032	13
Jul-2032	13
Aug-2032	13
Sep-2032	13
Oct-2032	13
Nov-2032	13
Dec-2032	13