



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
2040 S. PACHECO
SANTA FE, NEW MEXICO 87505
(505) 827-7131

August 30, 1996

RECEIVED
SEP - 5 1996
OIL CON. DIV.
DIST. 3

Amoco Production Company
Southern Rockies Business Unit
P.O. Box 800
Denver, Colorado 80201
Attention: Pamela W. Staley

Administrative Order NSL-3702

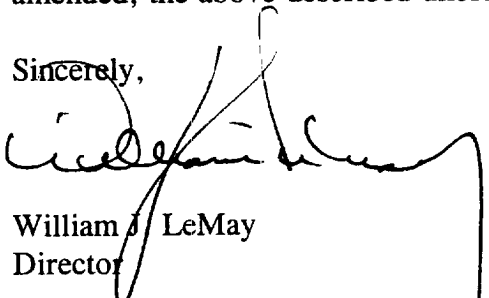
Dear Ms. Staley:

Reference is made to your application dated August 13, 1996 for a non-standard Basin-Fruitland coal gas well location for your existing Gallegos Canyon Unit Well No. 291 (API No. 30-045-23822) which was drilled in December, 1979 and completed in January, 1980 within the West Kutz-Pictured Cliffs Pool at a standard gas well location 1850 feet from the South line and 1830 feet from the East line (Unit J) of Section 23, Township 28 North, Range 12 West, NMPM, San Juan County, New Mexico.

It is our understanding that the Pictured Cliffs interval will be properly plugged back and said well will be recompleted to the Basin-Fruitland Coal (Gas) Pool, which pursuant to the "Special Rules and Regulations for the Basin-Fruitland Coal (Gas) Pool", as promulgated by Division Order No. R-8768, as amended, is unorthodox. Further, the E/2 of said Section 23 shall be dedicated to the well to form a standard 320-acre gas spacing and proration unit for said pool.

By the authority granted me under the provisions of Rule 8 of said Order No. R-8768, as amended, the above-described unorthodox coal gas well location is hereby approved.

Sincerely,


William J. LeMay
Director

WJL/MES/kv

cc: Oil Conservation Division - Aztec ✓
US Bureau of Land Management - Farmington



Southern

Rockies

Business

Unit

August 13, 1996

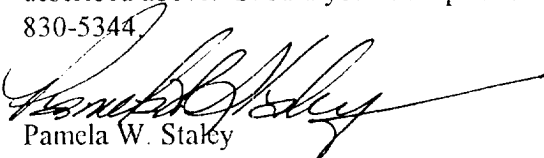
Mr. William J. LeMay, Director
New Mexico Oil Conservation Division
2040 S. Pacheco Street
P.O. Box 6429
Santa Fe, NM 87505

RECEIVED
AUG 19 1996
OIL CON. DIV.
DIST. 3

Application For Unorthodox Location
Gallegos Canyon Unit Well No. 291
1850' FSL, 1850' FEL, Unit J Section 23-T28N-R12W
Basin Fruitland Coal Pool
San Juan County, New Mexico

Amoco Production Company hereby requests administrative approval for an unorthodox well location for the Gallegos Canyon Unit Well No. 291 well in the Basin Fruitland Coal Pool. Amoco plans to recomplete this well from the Pictured Cliffs formation to the Basin Fruitland Coal. This well is at an orthodox location for the Pictured Cliffs, however the Basin Fruitland Coal Pool Rules require all Fruitland wells to be in the Northeast or Southwest quarter of the section. Because of the recompletion of this well from the Pictured Cliffs, it will be in an unorthodox location in the Fruitland. Attached is a copy of the C-102 for the Pictured Cliffs and the Fruitland Coal formations.

Amoco is the only offset operator in the Fruitland Coal formation, so no notice is required to Offset Operators. Attached are plats showing the location of the well, all wells drilled in the area and the C-102's described above. Should you have questions regarding this application, do not hesitate to call me at (303) 830-5344.


Pamela W. Staley

Attachments

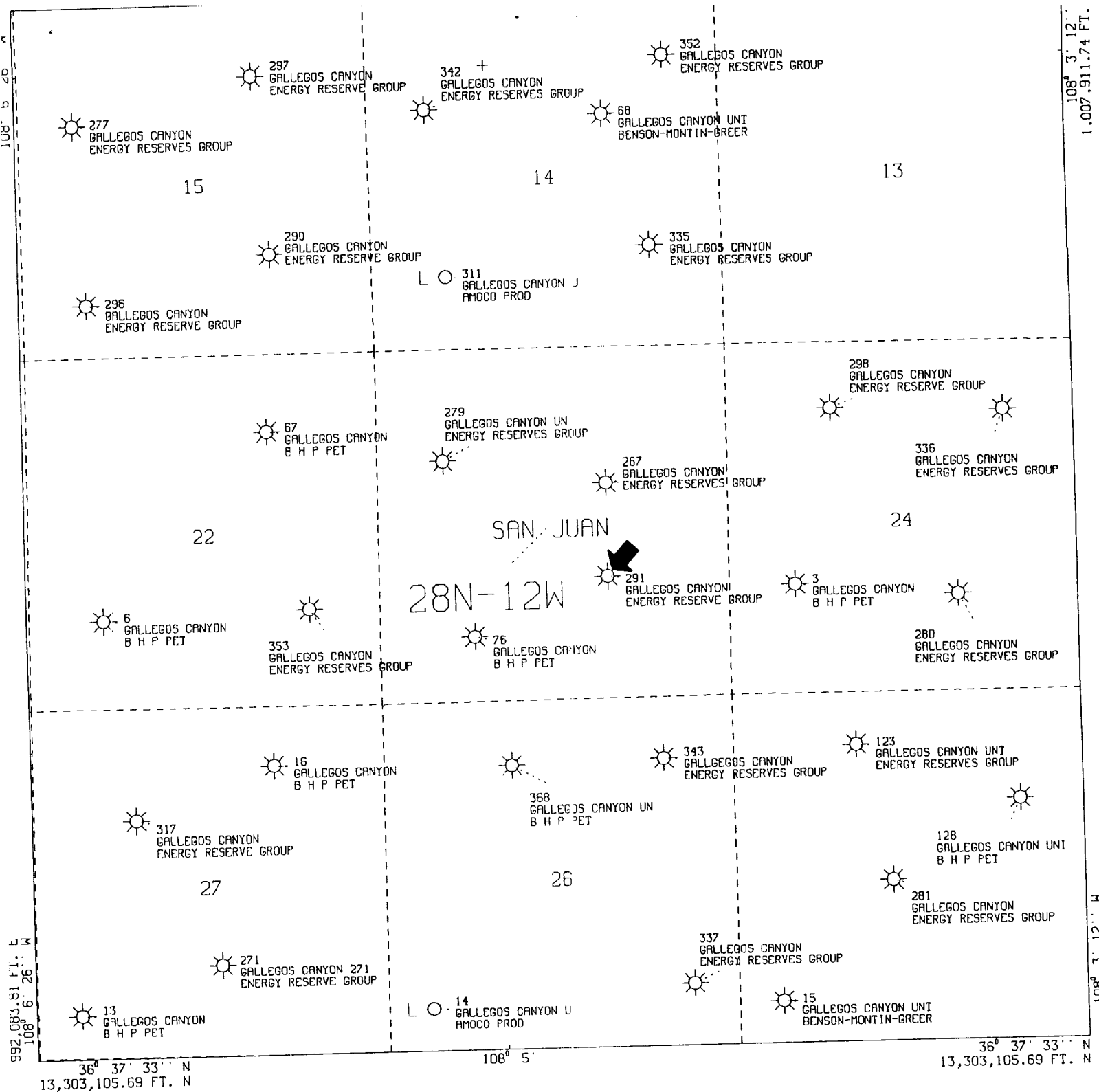
cc: Frank Chavez, Supervisor
NMOC District III
1000 Rio Brazos Road
Aztec, NM 87410
Mark Yamasaki, Amoco
Patty Haelele, Amoco
Irina Mitselmakher, Amoco

APPLICATION FOR APPROVAL OF UNORTHODOX LOCATION UNDER RULE 104-F

**Gallegos Canyon Unit Well No. 291
1850' FSL, 1850' FEL, Unit J Section 23-T28N-R12W
Basin Fruitland Coal Pool**

ATTACHMENTS:

- 9-SECTION PLAT SHOWING LOCATION OF ALL OFFSET WELLS
- FORM C-102 FOR PICTURED CLIFFS FORMATION
- FORM C-102 FOR FRUITLAND COAL FORMATION



All geological and geophysical data, including the interpretation thereof, appearing on this map is the private and confidential property of Amoco Production Company. The publication or reproduction thereof without the written permission of said Company is strictly prohibited.

POLYCONIC CENTRAL MERIDIAN - 108° 4' 49" W LON
SPHEROID - 6

AMOCO PRODUCTION COMPANY
PLAT MAP
GCU 291 J23-T28N-R12W
Offset Pictured Cliff Wells
SCALE 1 IN. = 2,000 FT. AUG 13, 1996

992,088.26 FT. E
108° 6' 26" W

316
GALLEGOS CANYON
ENERGY RESERVES GROUP

15

361
GALLEGOS CANYON
ENERGY RESERVES GROUP

360
GALLEGOS CANYON UT
ENERGY RESERVES GROUP

14

256
GALLEGOS CANYON
PAN AMERICAN PET

418
GALLEGOS CANYON UNIT
BHP PETROLEUM AMERICAS

347
GALLEGOS CANYON
ENERGY RESERVES GROUP

220
GALLEGOS CANYON
PAN AMERICAN PET

4
GALLEGOS
DUGAN PROD

22

SAN JUAN

28N-12W

GCU # 291

24

6
GALLEGOS CANYON
B H P PET

76
GALLEGOS CANYON
B H P PET

3
GALLEGOS CANYON
B H P PET

15
GALLEGOS CANYON
B H P PET

27

26

25

13
GALLEGOS CANYON
B H P PET

992,083.81 FT. E
108° 6' 26" W

36° 37' 33" N
13,303,105.69 FT. N

108° 5'

36° 37' 33" N
13,303,105.69 FT. N

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POLYCONIC CENTRAL MERIDIAN - 108° 4' 49" W LON
SPHEROID - 6

AMOCO PRODUCTION COMPANY
PLAT MAP
GCU 291 J23-T28N-R12W
Offset Fruitland Coal Wells

SCALE 1 IN. = 2,000 FT. AUG 13, 1996

LAND CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-102
Revised 10-1-78

All distances must be from the corner boundaries of the Section.

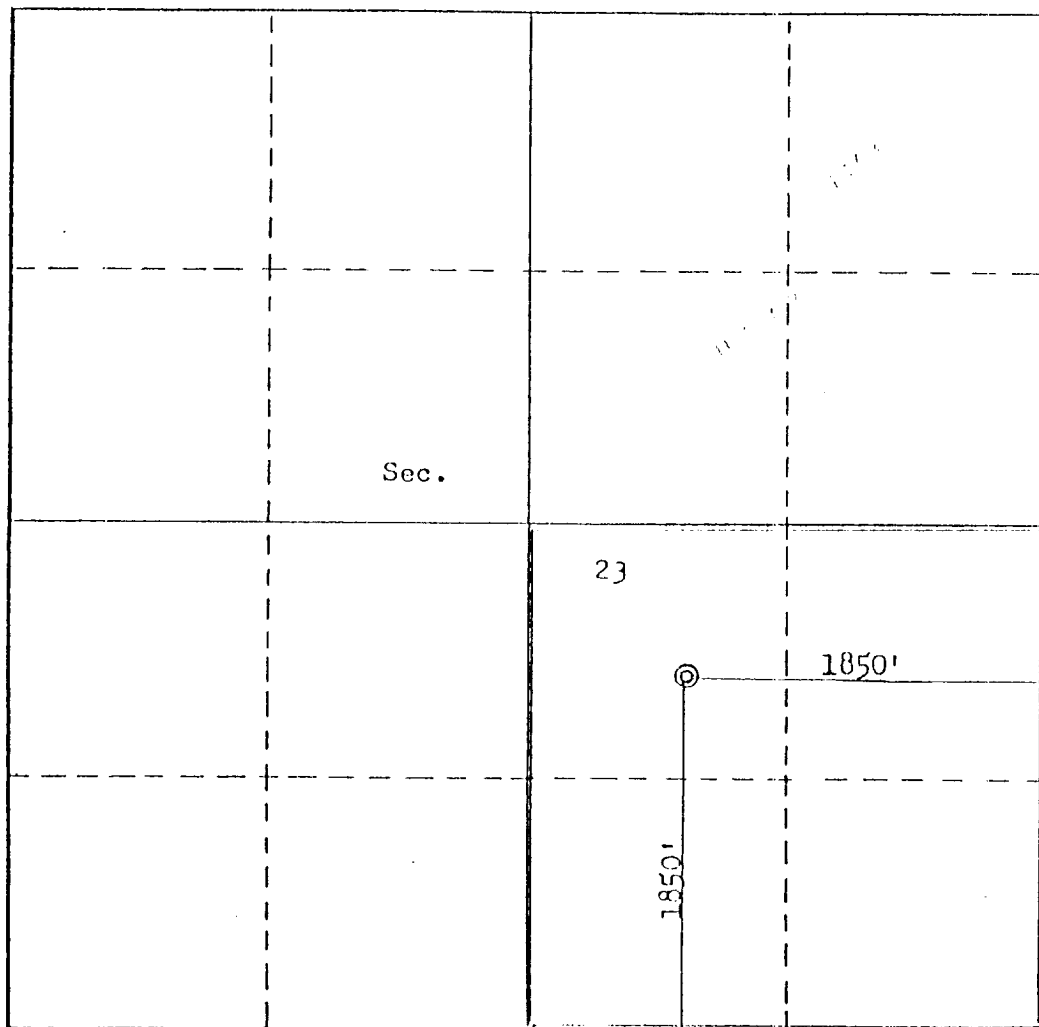
Operator ENERGY RESERVES GROUP			Lease GALLEGOS CANYON UNIT		Well No. 291
Unit Letter J	Section 23	Township 28N	Range 12W	County San Juan	
Actual Footage Location of Well:					
1850		feet from the South	line and 1850	feet from the East	line
Ground Level Elev. 5760	Producing Formation <i>Pictured Cliffs</i>		Pool <i>West Kutz Pictured Cliffs</i>		Dedicated Acreage: 160 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name *William J. Kerr*
Position _____
Field Services Administrator
Company _____
Energy Reserves Group, Inc.
Date _____
September 10, 1979

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.

Date Surveyed _____
August 11, 1979
Registered Professional Engineer and of Land Surveyor _____
Fred B. Kerr Jr.
Fred B. Kerr Jr.
Certificate No. _____
3850

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
811 South First, Artesia, NM 88210
District III
1808 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 October 18, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

AP Number 30-045-23882		Pool Code 71629	Pool Name Basin Fruitland Coal
Property Code 570	Property Name Gallegos Canyon Unit		Well Number 291
OGRID No. 000778	Operator Name Amoco Production Company		Elevation 5760'

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
J	23	28N	12W		1850	South	1850	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

Dedicated Acres 320	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

16				

1850'

1850'

17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief

Signature Patty Haefele

Printed Name Patty Haefele

Title Staff Assistant

Date 7-3-96

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.

Date of Survey 8/31/79

Signature and Seal of Professional Surveyor:
on file

Certificate Number 3950



LTR



Job separation sheet

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
BLM

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT - " for such proposals

95 OCT -9 AM 10:20
070 FARRINGTON, NM

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Amoco Production Company

Attention:

Patty Haefele

3. Address and Telephone No.

P.O. Box 800, Denver, CO 80201

(303) 830-4988

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

1850' FSL

1870' FEL

Sec. 23 T 28N R 12W

Unit J

5. Lease Designation and Serial No.

SF-078904

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Gallegos Canyon Unit

291

9. API Well No.

3004523882

10. Field and Pool, or Exploratory Area

Basin Fruitland Coal

11. County or Parish, State

San Juan

New Mexico

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

TYPE OF SUBMISSION

☒ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment

☒ Recompletion

☐ Plugging Back

☐ Casing Repair

☐ Altering Casing

☒ Other Isolate PC

☐ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut-Off

☐ Conversion to Injection

☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Amoco Production Company requests permission to recomplete to the Basin Fruitland Coal and to isolate the Pictured Cliffs on this well per the attached procedure.

RECEIVED
OCT 23 1996

OIL COAL DIV.
DIST. 3

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

Signed

Patty Haefele

Title

Staff Assistant

Date

07-03-1996

(This space for Federal or State office use)

Approved by

Title

Conditions of approval, if any:

OCT 21 1996

Title 18 U.S.C. Section 1001, makes 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.

NIMCO

DISTRICT MANAGER

14000 C-104 For NSU See Instructions on Reverse Side

District I
PO box 1980, Hobbs, NM 88241-1980
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 October 18, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

96 JUL -9 AM 10:20 ☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

* API Number 30-045-23882		* Pool Code 71629	* Pool Name Basin Fruitland Coal
* Property Code 570	* Property Name Gallegos Canyon Unit		* Well Number 291
* OGRID No. 000778	* Operator Name Amoco Production Company		* Elevation 5760'

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
J	23	28N	12W		1850	South	1850	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.
---------------------------	--------------------	-----------------------	--------------

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. Signature <u>Patty Haeefe</u> Patty Haeefe Printed Name Staff Assistant Title 7-3-96 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. 8/31/79 Date of Survey Signature and Seal of Professional Surveyer: on file 3950 Certificate Number



SJOET Well Work Procedure

Wellname: GCU #291
Version: #1
Date: July 2, 1996
Budget: Major Cash
Workover Type: Recompletion

Objectives:

1. Set a bridge plug to isolate Pictured Cliffs
 2. Perforate and fracture Fruitland Coal
 3. Put well on production
-

Pertinent Information:

Location:	1850' FSL, 1830' FEL Unit J S23, T28 R12	Horizon:	Fruitland Coal
County:	San Juan	API #:	30-045-23882
State:	New Mexico	Engr:	Irina Mitselmakher
Lease:	SF 078904	Phone:	W--(303)830-4371
Well Flac:			H--(303)369-9301

Economic Information:

APC WI:	PC Prod. Before Recompl:	0 MCFD
Estimated Cost:	PC Anticipated Prod.:	0 MCFD
Payout:	FC Prod. Before Recompl.:	0 MCFD
Max Cost -12 Mo. P.O.	FC Anticipated Prod.:	200 MCFD
PV15:		
Max Cost PV15:		

Formation Tops: (Estimated formation tops)

Nacimiento:	Menefee:
Ojo Alamo:	Point Lookout:
Kirtland Shale:	Mancos Shale:
Fruitland:	Gallup:
Pictured Cliffs:	Greenhorn:
Lewis Shale:	Graneros:
Chacra:	Dakota:
Cliffhouse:	Morrison:

Bradenhead Test Information:

Test Date: 9/21/88 **Tubing:** **Casing:** **BH:** 0 psi.

Time	BH	CSG	INT	CSG
5 min				
10 min				
15 min				

GCU #291
Sec. 23 T 28 R 12
Completed 1/80
PBTD=1769'

1. MURUSU. Bleed pressure off well if necessary. NDWH. NU and test BOP's.
2. Tag bottom with tubing. TOH w/ 2 3/8" tubing, inspect tubing joints while pulling. Verify PBTD of 1769'.
3. Run GR/CCL from 1769' to 769'. Correlate with original gamma ray log.
4. Set a CIBP as low as possible above perms to isolate the Pictured Cliffs formation. PC perforations are at 1582'-1610'.
5. PT casing to 2600#. Isolate and squeeze any casing leaks if found.
6. RIH and perforate the following intervals (4 jsf):

1558' - 1560' and 1562'-1576'

If there isn't enough clearance, skip as many bottom perms as necessary.

7. Fracture Basin Fruitland Coal according to the attached procedure.
8. Flow back immediately on a 1/2" choke. If excessive sand production is seen, drop back to 1/4" choke.
9. Clean out to CIBP.
10. RIH with and land seating nipple and 2 3/8" tbg at approx. 1510'.
11. ND BOP's. NU and test wellhead. RDMOSU.

If problems are encountered, please contact:

Irina Mitselmakher
W: (303)830-4371
H: (303)369-9301