

DATE IN 3/31/00	SUSPENSE 4/20/00	ENGINEER MS	LOGGED KN	TYPE NSL
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ABOVE THIS LINE FOR DIVISION USE ONLY

**NEW MEXICO OIL CONSERVATION DIVISION**  
- Engineering Bureau -

**ADMINISTRATIVE APPLICATION COVERSHEET**

THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS

**Application Acronyms:**

- [NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location]  
 [DD-Directional Drilling] [SD-Simultaneous Dedication]  
 [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]  
 [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]  
 [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]  
 [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]  
 [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

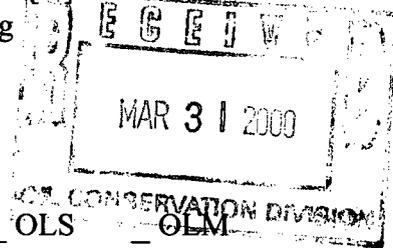
[1] **TYPE OF APPLICATION - Check Those Which Apply for [A]**

- [A] Location - Spacing Unit - Directional Drilling  
 NSL     NSP     DD     SD

Check One Only for [B] and [C]

- [B] Commingling - Storage - Measurement  
 DHC     CTB     PLC     PC

- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery  
 WFX     PMX     SWD     IPI     EOR     PPR



[2] **NOTIFICATION REQUIRED TO: - Check Those Which Apply, or \_ Does Not Apply**

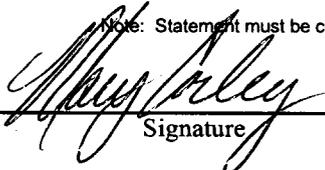
- [A]  Working, Royalty or Overriding Royalty Interest Owners  
 [B]  Offset Operators, Leaseholders or Surface Owner  
 [C]  Application is One Which Requires Published Legal Notice  
 [D]  Notification and/or Concurrent Approval by BLM or SLO  
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office  
 [E]  For all of the above, Proof of Notification or Publication is Attached, and/or,  
 [F]  Waivers are Attached

*4-15-00  
 Charlie say  
 OK*

[3] **INFORMATION / DATA SUBMITTED IS COMPLETE - Statement of Understanding**

I hereby certify that I, or personnel under my supervision, have read and complied with all applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common. I understand that any omission of data, information or notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with supervisory capacity.

Mary Corley  Sr. Business Analyst 03/29/2000  
 Print or Type Name Signature Title Date

**BP Amoco**

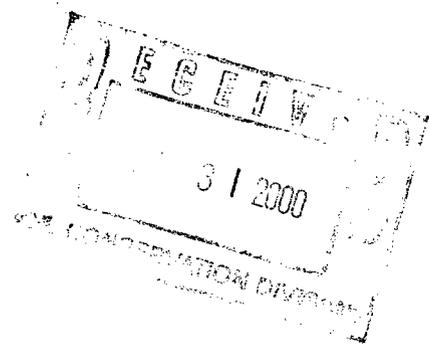


**Amoco Production Company**

BP Amoco  
Western Gas Business Unit  
Post Office Box 3092  
Houston, TX 77253-3092

March 27, 2000

Ms. Lori Wrotenbery, Director  
New Mexico Oil Conservation Division  
2040 S. Pacheco Street  
P.O. Box 6429  
Santa Fe, NM 87505



**Application For Non-Standard Well Location**  
**Gallegos Canyon Unit H # 180 Well**  
**1550' FSL, 2130' FEL, Unit J, Section 28-T29N-R12W**  
**Basin Fruitland Coal Pool**  
**San Juan County, New Mexico**

Amoco Production Company hereby requests administrative approval for an non-standard well location for the Gallegos Canyon Unit Com H #180 well in the Basin Fruitland Coal Pool. Amoco plans to plug back this well from the Basin Dakota Pool. The well location is non-standard due to the fact it is not located in the NE/4 or SW/4 of the section.

Attached is the Form C-102 showing the location of the well, and a nine section plat showing wells drilled in the area. This well is located in the interior of the Gallegos Canyon Unit and Amoco is the only offset operator affected by this application.

Sincerely,

Mary Corley

Attachments

cc: John Papageorge  
Well file  
Proration file

*cc'd French on  
4-5-00  
M.C.*

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, Sante 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 30-045-07814	Pool Code 71629	Pool Name Basin Fruitland Coal
Property Code 000579	Property Name Gallegos Canyon Unit H	Well Number 180
OGRID No. 000778	Operator Name AMOCO PRODUCTION COMPANY	Elevation 5338'

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 J	28	29N	12W		1550'	SOUTH	2130'	EAST	San Juan

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: 320.37		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

	<b>OPERATOR CERTIFICATION</b>
	<i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</i>
	Signature <i>Mary Corley</i>
	Printed Name Mary Corley
	Position Sr. Regulatory Analyst
	Date 03/21/2000
	<b>SURVEY CERTIFICATION</b>
	<i>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.</i>
	07/30/1964
	Date of Survey
	Signature & Seal of Professional Surveyor
	James P. Leese
	Certificate No. 1463



■ *Fruitland Coal*  
 ● *Dakota*

AMOCO PRODUCTION COMPANY HOUSTON, TX		
WESTERN GAS BUSINESS UNIT		
FRUITLAND COAL WELLS T29N R12W SEC. 28 [REF. GCU H #180 (DAKOTA)]		
SCALE 1"=2500'	DRAWN M. J. RITZ	DATE 23-MAR-2000
DRAWING		

CMD :  
OG5SECT

ONGARD  
INQUIRE LAND BY SECTION

04/19/00 12:03:35  
OGOMES -TQBI  
PAGE NO: 1

Sec : 28 Twp : 29N Rng : 12W Section Type : NORMAL

D 40.00	*** **	*** **	*** **	*** **	*** **	*** **	*** **
Fee owned U A	Federal owned U U A						
E 40.00	F 40.00	F 40.00	G 40.00	G 40.00	H 40.00	H 40.00	H 40.00
Fee owned U	Fee owned U	Fee owned U	Fee owned U	Fee owned U	Fee owned U	Fee owned U	Fee owned U

PF01 HELP    PF02            PF03 EXIT    PF04 GoTo    PF05            PF06  
PF07 BKWD   PF08 FWD      PF09 PRINT   PF10 SDIV    PF11            PF12

CMD :  
OG5SECT

ONGARD  
INQUIRE LAND BY SECTION

04/19/00 12:03:40  
OGOMES -TQBI  
PAGE NO: 2

Sec : 28 Twp : 29N Rng : 12W Section Type : NORMAL

31 40.03  Federal owned U	K 40.00  Fee owned U	J 40.00  Fee owned U A	I 40.00  Fee owned U
M 40.00  Fee owned U A	32 40.22  Federal owned U A	33 40.37  Federal owned U	P 40.00  Fee owned U

PF01 HELP    PF02            PF03 EXIT    PF04 GoTo    PF05            PF06  
PF07 BKWD   PF08 FWD      PF09 PRINT   PF10 SDIV     PF11            PF12

160.37

Submit 3 Copies to  
Appropriate  
District Office

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-103  
Revised 1-1-89

**OIL CONSERVATION DIVISION**

**DISTRICT I**  
P.O. Box 1980, Hobbs, NM

P.O. Box 2088

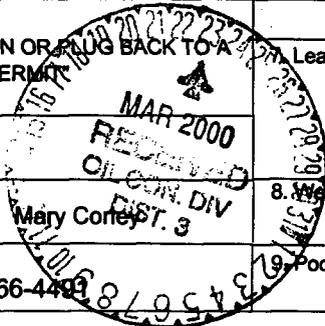
**DISTRICT II**  
P.O. Drawer DD, Artesia, NM 88210

Santa Fe, New Mexico 87504-2088

**DISTRICT III**  
1000 Rio Brazos Rd., Aztec, NM

WELL API NO.	30-045-07814
5. Indicate Type of Lease	STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.	

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> (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-101) FOR SUCH PROPOSALS.)		Lease Name or Unit Agreement Name Gallegos Canyon Unit H
1. Type of Well: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER	2. Name of Operator AMOCO PRODUCTION COMPANY	Attention: Mary Corley
3. P.O. Box 3092 Houston TX 77253 281-366-4491	8. Well No. 180	
4. Well Location Unit Letter J : 1550 Feet From The SOUTH Line and 2130 Feet From The EAST Line Section 28 Township 29N Rang 12W NMPM San Juan County	9. Pool name or Wildcat Basin Fruitland Coal	
10. Elevation (Show whether DF, RKB, RT, GR, etc.) 5338' KB		



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   
 OTHER: Recompletion from Basin Dakota

**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)

1. Check anchors. MIRUSU.
2. Check and record tubing, casing and bradenhead pressures.
3. Blow down wellhead, kill if necessary.
4. Nipple down wellhead, nipple up and pressure test BOP.
5. TOH with tubing.
6. PXA Dakota. Set CIBP within 50' of top Dakota perf. Spot 150' cmt plug on top of CIBP.
7. Log Fruitland Coal interval with CBL/GR/CCL to insure zonal isolation across FC.
8. Set CIBP approximately 150' below bottom of proposed perforations. This plug is intended to be temporary and will be drilled out prior to permanent wellbore abandonment operations.
9. Perforate the following interval with 4JSPF, 120 deg. phasing: FRLD 1202-1206', 1209-12', 1218-22', 1252-56', 1262-65'.
10. Fracture stimulate down casing according to schedule 'A'.
11. CO to PBTD.
12. TIH with 2 3/8" tbg, rods, and pump. Land 1 joint below perms if possible.
13. RDMO. Hook up to pumping unit and well head compressor.

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 03-21-2000  
 TYPE OR PRINT NAME Mary Corley TELEPHONE NO. 281-366-4491

(This space for State Use)

APPROVED BY Charlie T. Leseur TITLE DEPUTY OIL & GAS INSPECTOR, DIST. #3 DATE MAR 23 2000

CONDITIONS OF APPROVAL, IF ANY:

**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, Sante 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 30-045-07814	Pool Code 71629	Pool Name Basin Fruitland Coal
Property Code 000579	Property Name Gallegos Canyon Unit H	Well Number 180
OGRID No. 000778	Operator Name AMOCO PRODUCTION COMPANY	Elevation 5338'

**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 J	28	29N	12W		1550'	SOUTH	2130'	EAST	San Juan

**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: 320.37		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**

	<b>OPERATOR CERTIFICATION</b>
	<i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</i>
	Signature <i>Mary Corley</i>
	Printed Name Mary Corley
	Position Sr. Regulatory Analyst
	Date 03/21/2000
	<b>SURVEY CERTIFICATION</b>
	<i>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.</i>
	07/30/1964
	Date of Survey
	Signature & Seal of Professional Surveyor
	James P. Leese
	Certificate No. 1463

Submit 3  
Copies to  
Appropriate

State of New Mexico  
Energy, Minerals and Natural Resources

Form C-103  
Revised 1-1-89

**OIL CONSERVATION DIVISION**

**DISTRICT I**  
P.O. Box 1980, Hobbs, NM

**DISTRICT II**  
P.O. Drawer DD, Artesia, NM 88210

**DISTRICT III**  
1000 Rio Brazos Rd., Aztec, NM

P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

WELL API NO.  
3004507814

5. Indicate Type of Lease  
STATE  FEE

6. State Oil & Gas Lease No.

**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-101) FOR SUCH PROPOSALS.)

7. Lease Name or Unit Agreement Name

Gallegos Canyon Unit H

1. Type of Well:

OIL WELL  GAS WELL  OTHER

2. Name of Operator

AMOCO PRODUCTION COMPANY Attention Gail M. Jefferson

8. Well No.

180

P.O. Box 800 Denver Colorado 80201 (303) 830-6157

9. Pool name or Wildcat

Basin Dakota

4. Well Location

Unit Letter J : 1550 Feet From The SOUTH Line and 2130 Feet From The EAST Line

Sectio 28 Township 29N Rang 12W NMPM SAN JUAN County

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

5338' KB

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   
OTHER: Recompletion

**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)

Amoco Production Company requests permission to recomplete this well per the attached procedures and trimingle.

If you have any technical questions, please contact Wayne Peterson at (303) 830-4332 or Gail Jefferson for any administrative concerns.

**RECEIVED**  
OCT 22 1998

**OIL CON. DIV.**  
**DIST. 3**

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

SIGNATURE Gail M. Jefferson TITLE Sr. Admin. Staff Asst. DATE 10-20-1998

TYPE OR PRINT NAME Gail M. Jefferson TELEPHONE NO. (303) 830-6157

(This space for State)

APPROVED BY Gerrit Buech TITLE DEPUTY OIL & GAS INSPECTOR, DIST. 3 DATE OCT 23 1998

CONDITIONS OF APPROVAL, IF ANY: HOLD C-104 FOR NSL

# GCU Well Work Procedure

GCU Com H 180

Date: 9/29/98

---

**Objective:**

Recomplete from Dakota to Pictured Cliffs, Fruitland Coal, and Fruitland Sand and comingle all three horizons. Lower two horizons will have to be tested separately.

---

**Pertinent Information:**

Location:	SE28-29N-12W	Horizon:	Dak to PC, FC, & FS
County:	San Juan	API #:	30-045-07814
State:	New Mexico	Engr:	Wayne Peterson
Lease:		Phone:	H--(303)795-0171
Well Flac:	93667601		W-(303)830-4332

---

Call Tom Feldkamp 303-830-5575 or Wayne Peterson 303-830-4332 in Denver to see if steps 6-7 are necessary.

1. Check anchors. MIRUSU.
2. Check and record tubing, casing and bradenhead pressures.
3. Blow down wellhead, kill if necessary.
4. Nipple down wellhead, nipple up and pressure test BOP.
5. TOH with tubing.
6. TIH with tubing conveyed perforating gun and packer. Set packer 1 jt above interval to be perfed and perforate Lower Dakota as specified.
7. Test Lower Dakota and report results to Tom Feldkamp or Wayne Peterson before proceeding. If the Lower Dakota is determined to be uneconomic go to step 8. If it is economic a modified procedure will be prepared.
8. PXA Dakota. Set CIBP within 50' of top Dakota perf. Spot 100' cmt plug on top of CIBP.
9. Perforate the following interval with 4JSPF, 120 deg. phasing: PCCF 1265-1280.
10. Fracture stimulate down casing according to schedule 'A'.
11. Test PC.
12. Set RBP at 1260.
13. Perforate the following interval with 4JSPF, 120 deg. phasing: FRLD 1200-1210, 1216-1220, 1250-1254, 1259-1264.
14. Fracture stimulate down casing according to schedule 'B'.
15. Test FRLD.
16. CO and retrieve BP. Reset at 1150.
17. Perforate the following interval with 4JSPF, 120 deg. phasing: FT Sand 992-1015.
18. Fracture stimulate down casing according to schedule 'C'.

**GCU H Com 180**

19. CO and retrieve BP. CO to PBTD.

20. TIH with 2 3/8" tbg, rods, and pump. Land 1 joint below PC perms if possible.

21. RDMO. Hook up to pumping unit and well head compressor.

GL - 5325  
KB - 5338

8-5/8" 24# CSA 358 x 200 sx

DV SA 4089

Pkr. SA 5817

2-3/8" TSA 5825

5794-5802 x 6 spf

5870-5900 x 2 spf

PBD - 5924  
TD - 5965

4-1/2" 10.5# CSA 5961 x 1315 sx

Amoco Production Company

SCALE

Gallejos Canyon Unit Com H #180

DRG.

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

*Hold C-104  
 for NSE*

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

**OIL CONSERVATION DIVISION**  
 2040 South Pacheco  
 Santa Fe, NM 87505

AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

* API Number 3004507814		* Pool Code 79680		* Field Name Kutz Pictured Cliffs, West (Gas)	
* Property Code 000579		* Property Name Gallegos Canyon Unit H			* Well Number 180
* OGRID No. 000778		* Operator Name Amoco Production Company			* Elevation

**10 Surface Location**

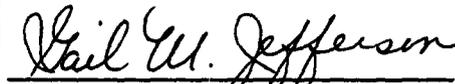
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	28	29N	12W		1550	South	2130	East	San Juan

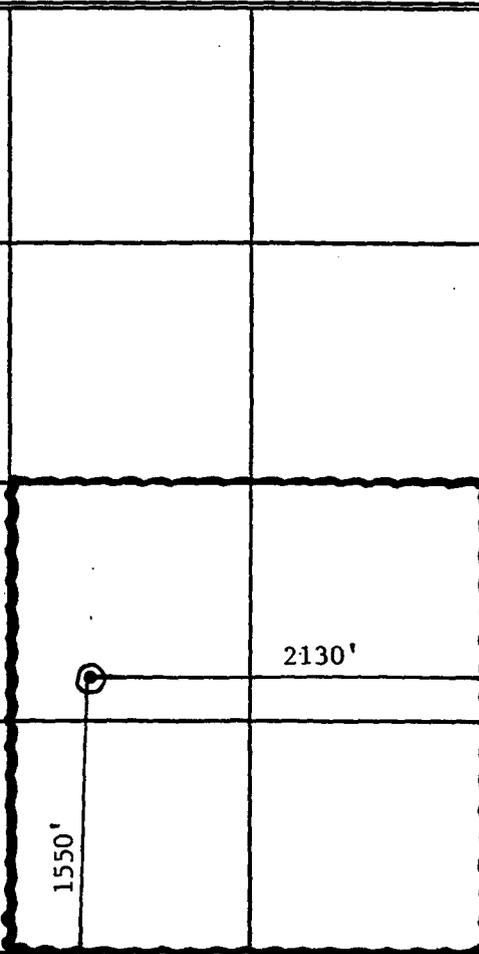
**11 Bottom Hole Location If Different From Surface**

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 160.37	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  <b>RECEIVED</b> OCT 22 1998  <b>OIL CON. DIV.</b> <b>DIST. 3</b>	17 OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</i>   Signature Gail M. Jefferson Printed Name Sr. Admin. Staff Asst. Title 10/20/98 Date		
	18 SURVEYOR CERTIFICATION <i>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.</i>  July 30, 1964 Date of Survey Signature and Seal of Professional Surveyor:  James P. Leese  1463 Certificate Number		



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

Hold C-104  
 FOR NGL @

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

* API Number 3004507814		* Pool Code 82920		* Pool Name Pinon Fruitland Sand, North (Gas) <b>EXT</b>	
* Property Code 000579		* Property Name Gallegos Canyon Unit H			* Well Number 180
* OGRID No. 000778		* Operator Name Amoco Production Company			* Elevation

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
J	28	29N	12W		1550	South	2130	East	San Juan

<sup>11</sup> Bottom Hole Location If Different From Surface

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

" Dedicated Acres 160.37	" Joint or Infill	" Consolidation Code	" Order No.
-----------------------------	-------------------	----------------------	-------------

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16  <b>RECEIVED</b> OCT 22 1998  <b>OIL CON. DIV.</b> <b>DIST. 3</b>		<sup>17</sup> OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</i>  <i>Gail M. Jefferson</i> Signature Gail M. Jefferson Printed Name Sr. Admin. Staff Asst. Title 10/20/98 Date
		<sup>18</sup> SURVEYOR CERTIFICATION <i>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.</i> July 30, 1964 Date of Survey Signature and Seal of Professional Surveyor:  James P. Lease  1463 Certificate Number

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State of New Mexico  
 Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION  
 2040 South Pacheco  
 Santa Fe, NM 87505

40613 C-104 FOR  
 NSZ (C)

Form C-102  
 Revised October 18, 1994  
 Instructions on back:  
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AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

* API Number 3004507814		* Pool Code 71629		* Pool Name Basin Fruitland Coal	
* Property Code 000579		* Property Name Gallegos Canyon Unit H			* Well Number 180
* OGRID No. 000778		* Operator Name Amoco Production Company			* Elevation

<sup>10</sup> 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	28	29N	12W		1550	South	2130	East	San Juan

<sup>11</sup> 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

<sup>12</sup> Dedicated Acres 320.37	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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 	<b>RECEIVED</b> OCT 22 1998 OIL CON. DIV. DIST. 3	<b><sup>17</sup> OPERATOR CERTIFICATION</b> <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</i>  Signature Gail M. Jefferson Printed Name Sr. Admin. Staff Asst. Title 10/20/98 Date
		<b><sup>18</sup> SURVEYOR CERTIFICATION</b> <i>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.</i> July 30, 1964 Date of Survey Signature and Seal of Professional Surveyor: James P. Leese 1463 Certificate Number

Submit 3 Copies  
to Appropriate  
District Office

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-103  
Revised 1-1-89

DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240

OIL CONSERVATION DIVISION  
P.O. Box 2088

DISTRICT II  
P.O. Drawer DD, Artesia, NM 88210

Santa Fe, New Mexico 87504-2088

DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

RECEIVED  
JAN 12 AM 7 53

WELL API NO.  
3004507814

5. Indicate Type of Lease  
STATE  FEE

6. State Oil & Gas Lease No.

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-101) FOR SUCH PROPOSALS.)

7. Lease Name or Unit Agreement Name  
Gallegos Canyon Unit Com H

1. Type of Well:  
OIL WELL  GAS WELL  OTHER

8. Well No.  
180

2. Name of Operator  
Amoco Production Company

Attention: Lois Raeburn

3. Address of Operator  
P.O. Box 800 Denver Colorado 80201

9. Pool name or Wildcat  
Basin Dakota

4. Well Location  
Unit Letter J : 1550 Feet From The South Line and 1830 Feet From The East Line  
Section 28 Township 29N Range 12W NMPM San Juan County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)  
5338' KB

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   
OTHER:   
SUBSEQUENT REPORT OF:  
REMEDIAL WORK  ALTERING CASING   
COMMENCE DRILLING OPNS.  PLUG AND ABANDONMENT   
CASING TEST AND CEMENT JOB   
OTHER: Bradenhead Repairs

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.  
On 9/02/93, MIRSUSE, NDWH & NUBOP. Release Pkr. Tally in hole w 4 1/2" scrapper. tag btm 5898'. On 9/03/93 TIH w/ 4 1/2" scrapper, Make-up ret-plug & TIH w/ 2 3/8" tbg. Set plug @ 5627'. Tst csng 1,000 PSI, dmpd sand on top if pg. TOH. TIH run CBL-VDL-GR-CCL LOG fr 2590' to surf. cmt top @ 770'. TOH. shoot 2 (3/8") sqz holes Pmp pr up to 1050# No bleed off. Pump 20 gals acid. TOH SDFN. On 9/04/93, TIH w tention pkr, set @ 490. TOH. TIH to 697', spot 3 Bbls cmt across lower perms. Spot 2nd, 3 Bbls cmt plug across upper sqz holes. TOH TIH w/ Bit & drill collar tbg, cmt @ 172', drill cmt to 320'. Circ. hole clean pr. tst CSG to 500#. Tag 2nd pg. @ 559', dri to 707'. Pr tst. 2nd sqz hole to top of plug. TOH. SDFN. On, 9/09/93, TIH w/ Swab equip, swab out 60 /bbls flu. Release plug @ 5926' tbg, clean out to 5926'. TOH. TIH w/ 183 jts 2 3/8" tbg. Land tbf 5839'. NDBOPS & NUWA TOH. On 9/09/93, TIH w/ swab equip. Rec 14 Bbls w/ trace of oil. TOH. Sut in well to Production.

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JAN 05 1994  
OIL CON. DIV.  
DIST. 3

I hereby certify that the information above is true and complete to the best of my knowledge and belief  
SIGNATURE Lois Raeburn TITLE Business Associate DATE 01-04-1994  
TYPE OR PRINT NAME Lois Raeburn TELEPHONE NO.

(This space for State Use)  
APPROVED BY Chris Mabe TITLE DEPUTY OIL & GAS INSPECTOR, DIST. 3 DATE JAN - 5 1994  
CONDITIONS OF APPROVAL, IF ANY:

Submit 3 Copies to Appropriate District Office

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-103 Revised 1-1-89

DISTRICT I P.O. Box 1980, Hobbs, NM 88240

OIL CONSERVATION DIVISION

P.O. Box 2088

DISTRICT II P.O. Drawer DD, Artesia, NM 88210

Santa Fe, New Mexico 87504-2088

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

'93 AUG 16 AM 10 16

WELL API NO.	3004507814
5. Indicate Type of Lease	STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.	

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> (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-101) FOR SUCH PROPOSALS.)	
1. Type of Well: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER	7. Lease Name or Unit Agreement Name Gallegos Canyon Unit Com H
2. Name of Operator Amoco Production Company	8. Well No. 180
3. Address of Operator P.O. Box 800 Denver Colorado 80201 (303) 830-5651	9. Pool name or Wildcat Basin Dakota
4. Well Location Unit Letter <u>J</u> : <u>1550</u> Feet From The <u>South</u> Line and <u>2130</u> Feet From The <u>East</u> Line Section <u>28</u> Township <u>29N</u> Range <u>12W</u> NMPM San Juan County	
10. Elevation (Show whether DF, RKB, RT, GR, etc.) 5338 KB'	

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

<b>NOTICE OF INTENTION TO:</b>	<b>SUBSEQUENT REPORT OF:</b>
PERFORM REMEDIAL WORK <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>
PLUG AND ABANDON <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>
CHANGE PLANS <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	CASING TEST AND CEMENT JOB <input type="checkbox"/>
OTHER: <u>BRADENHEAD REPAIR</u> <input checked="" type="checkbox"/>	OTHER: <input type="checkbox"/>

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.

Amoco Production Company requests to perform bradenhead remediation work over to eliminate bradenhead pressure. See attached procedures.

If you have any questions, please contact Lori Arnold at the number listed above.

RECEIVED  
AUG - 9 1993  
OIL CON. DIV  
DIST. 3

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

SIGNATURE Lori Arnold TITLE Business Analyst DATE 08-04-1993

TYPE OR PRINT NAME Lori Arnold TELEPHONE NO. \_\_\_\_\_

(This space for State Use)

APPROVED BY Charles D. Hulse TITLE DEPUTY OIL & GAS INSPECTOR, DIST. #3 DATE AUG 09 1993

CONDITIONS OF APPROVAL, IF ANY:

Handwritten initials

GL - 5325  
KB - 5338

8-5/8" 24# CSA 358 x 200 sx

DV SA 4089

5717  
Pkr. SA ~~5817~~

2-3/8" TSA ~~5825~~  
5900

5794-5802 x 6 spf

5870-5900 x 2 spf

PBD - 5924  
TD - 5965

4-1/2" 10.5# CSA 5961 x 1315 sx

Workover Procedure  
Gallegos Canyon Unit Com H #180  
Sec.28-T29N-R12W  
San Juan County, NM

1. Contact Federal or State agency prior to starting repair work.
2. Catch gas and/or water sample off of bradenhead and casing, and have analyzed.
3. Install and/or test anchors on location.
4. MIRUSU. Check and record tubing, casing and bradenhead pressures.
5. Blow down well and kill well, if necessary, with 2% KCL water.
6. ND wellhead. NU and pressure test BOP's.
7. TIH and tag PBSD, check for fill. Trip and tally out of hole with tubing, checking condition of tubing.
8. TIH with bit and scraper to top of perforations. A seating nipple and standing valve may be run in order to pressure test tubing. TOH.
9. TIH with RBP and packer. Set RBP 50-100 ft. above perforations. TOH one joint and set packer. Pressure test RBP to 1500 psi.
10. Pressure test casing above packer. Isolate leak, if any, by moving packer up the hole and repeating pressure test.

NOTE: If this can not be accomplished, contact Emily Miller in Denver at (303) 830-4214. If no leak is found, it may be necessary to perforate the casing below surface casing depth or above the top of cement in order to circulate cement to surface.

11. Establish injection rate into leak, if found, and attempt to circulate to surface.
12. Release packer, spot sand on RBP and TOH with packer.
13. Run, if necessary, a CBL and CCL to determine cement top.
14. Perforate casing above cement top, if necessary, with 4 JSPF and circulate dye to determine cement volume.

15. Depending on depth of hole and circulating pressure, a packer or cement retainer may be needed.
16. Mix and pump sufficient cement (Class B or equivalent, with a setting time of 2 hours) to circulate to surface. Shut bradenhead valve and attempt to walk squeeze to obtain a 1000 psi squeeze pressure. WOC.
17. TIH with bit and scraper and drill out cement. Pressure test casing to 1000 psi. TOH with bit and scraper.
18. TIH with retrieving head for RBP. Circulate sand off of RBP and TOH with RBP.
19. TIH with sawtooth collar and/or bailer and clean out hole to PSTD, if fill was found in step 7. TOH.
20. TIH with production string (1/2 mule shoe on bottom and seating nipple one joint off bottom) and land tubing to original depth. NDBOP. NU wellhead.
21. Swab well in and put on production.
22. RDMSU.



STATE OF NEW MEXICO  
 ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT  
 OIL CONSERVATION DIVISION  
 AZTEC DISTRICT OFFICE

1000 RIO BRAZOS ROAD  
 AZTEC, NEW MEXICO 87410  
 (505) 334-6178

14045

**BRADENHEAD TEST REPORT**  
 (Submit 2 copies to above address)

Date of Test 6-3-92 Operator Amoco Production, 200 Amoco Court, Farmington, NM  
 Lease Name G.C.V. 180<sup>1</sup> Well No.        Location: Unit        Section        Township        N Range        W  
 Pressure (Shut-in or Flowing)        Tubing 378 Intermediate        Casing 410 Bradenhead 125

OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH

TIME	PRESSURES:		BRADENHEAD FLOWED	INTERMEDIATE FLOWED
	INTERMEDIATE	CASING		
5 min.		410	Steady Flow	
10 min.		410	Surges	
15 min.		410	Down to Nothing ✓	
20 min.		↓	Nothing	
25 min.		↓	Gas ✓	
30 min.			Gas & Water	
			Water	

If Bradenhead flowed water, check description below:

CLEAR        FRESH        SALTY        SULFUR        BLACK       

REMARKS:

Rem 67

By  Brent E. Hedger

Witness

**OIL CONSERVATION DIVISION**

P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

DISTRICT II  
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

**REQUEST FOR ALLOWABLE AND AUTHORIZATION  
TO TRANSPORT OIL AND NATURAL GAS**

**I.**

Operator <u>Amoco Production Co.</u>	Well API No. <u>290338</u>
Address <u>2325 E. 30th Street, Farmington NM 87401</u>	
Reason(s) for Filing (Check proper box) <input type="checkbox"/> Other (Please explain)	
New Well <input type="checkbox"/>	Change in Transporter of:
Recompletion <input type="checkbox"/>	Oil <input type="checkbox"/> Dry Gas <input type="checkbox"/> Effective <u>4-1-89</u>
Change in Operator <input type="checkbox"/>	Casinghead Gas <input type="checkbox"/> Condensate <input checked="" type="checkbox"/>
If change of operator give name and address of previous operator _____	

**II. DESCRIPTION OF WELL AND LEASE**

Lease Name <u>Gallegos Canyon Unit Com H</u>	Well No. <u>180</u>	Pool Name, Including Formation <u>Basin Dakota</u>	Kind of Lease State, Federal or Fee <input checked="" type="checkbox"/>	Lease No.
Location				
Unit Letter <u>J</u>	: <u>1550</u> Feet From The <u>S</u> Line and <u>2130</u> Feet From The <u>E</u> Line	Section <u>28</u> Township <u>29N</u> Range <u>12W</u> , NMPM, <u>San Juan</u> County		

**III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS**

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
<u>Meridian Oil Inc.</u>	<u>P.O. Box 4289, Farmington NM 87499</u>
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
<u>El Paso Natural Gas</u>	<u>Caller Service 4990, Farmington NM 87499</u>
If well produces oil or liquids, give location of tanks.	Unit   Sec.   Twp.   Rge.   Is gas actually connected?   When?
	<u>J</u>   <u>28</u>   <u>29N</u>   <u>12W</u>   <u>Yes</u>   <u>12-9-64</u>

If this production is commingled with that from any other lease or pool, give commingling order number: \_\_\_\_\_

**IV. COMPLETION DATA**

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v	Diff Res'v
Date Spudded	Date Compl. Ready to Prod.		Total Depth			P.B.T.D.		
Elevations (DF, RKB, RT, GR, etc.)	Name of Producing Formation		Top Oil/Gas Pay			Tubing Depth		
Perforations						Depth Casing Shoe		

**TUBING, CASING AND CEMENTING RECORD**

HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT

**V. TEST DATA AND REQUEST FOR ALLOWABLE**

**OIL WELL** (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours.)

Date First New Oil Run To Tank	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas - MCF

**GAS WELL**

Actual Prod. Test - MCF/D	Length of Test	Bbls. Condensate/MCF	Gravity of Condensate
Testing Method (pilot, back pr.)	Tubing Pressure (Shut-in)	Casing Pressure (Shut-in)	Choke Size

**VI. OPERATOR CERTIFICATE OF COMPLIANCE**

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

B. D. Shaw  
Signature  
B. D. Shaw  
Printed Name  
3-29-89  
Date  
(505) 325-8841  
Telephone No.  
Title Adm. Supv.

**OIL CONSERVATION DIVISION**

Date Approved APR 03 1989  
By B. D. Shaw  
Title SUPERVISION DISTRICT # 3

**INSTRUCTIONS:** This form is to be filed in compliance with Rule 1104

- 1) Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.
- 2) All sections of this form must be filled out for allowable on new and recompleted wells.
- 3) Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT

REGISTERED MAIL  
SEP 18 1987  
OIL CONSERVATION DIVISION  
SANTA FE

Form C-104  
Revised 10-01-78  
Format C6-01-83  
Page 1

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	GAS
OPERATOR	
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OIL CONSERVATION DIVISION  
P. O. BOX 2088  
SANTA FE, NEW MEXICO 87501

REQUEST FOR ALLOWABLE  
AND  
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

**I. Operator**  
Amoco Production Company

**Address**  
501 Airport Drive Farmington, NM 87401

JAN 16 1985  
OIL CON. DIV.  
DIST. 3

**Reason(s) for filing (Check proper box)**

<input type="checkbox"/> New Well	<input type="checkbox"/> Change in Transporter of:	<input type="checkbox"/> Dry Gas
<input type="checkbox"/> Recompletion	<input type="checkbox"/> Oil	<input checked="" type="checkbox"/> Condensate
<input type="checkbox"/> Change in Ownership	<input type="checkbox"/> casinghead Gas	

**Other (Please explain)**

If change of ownership give name and address of previous owner \_\_\_\_\_

**II. DESCRIPTION OF WELL AND LEASE**

Lease Name <u>Com "H"</u>	Well No. <u>180</u>	Pool Name, including Formation <u>Basin Dakota</u>	Kind of Lease State, Federal or Fee <u>Fee</u>	Lease No.
Location Unit Letter <u>J</u> : <u>1550</u> Feet From The <u>South</u> Line and <u>2130</u> Feet From The <u>East</u>				
Line of Section <u>28</u> Township <u>29N</u> Range <u>12W</u> , NMPM, <u>San Juan</u> County				

**III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS**

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input checked="" type="checkbox"/> <u>Permian Corp. Permian (Eff. 9/1/87)</u>	Address (Give address to which approved copy of this form is to be sent) <u>P. O. Box 1702 Farmington, NM 87499</u>
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/> <u>El Paso Natural Gas Company</u>	Address (Give address to which approved copy of this form is to be sent) <u>P. O. Box 990 Farmington, NM 87401</u>
If well produces oil or liquids, give location of tanks.	Unit Sec. Twp. Rge. Is gas actually connected? when
	<u>J 28 29N 12W</u>

If this production is commingled with that from any other lease or pool, give commingling order number: \_\_\_\_\_

NOTE: Complete Parts IV and V on reverse side if necessary.

**VI. CERTIFICATE OF COMPLIANCE**

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given is true and complete to the best of my knowledge and belief.

BDS Shaw  
(Signature)  
Admin. Supervisor  
(Title)  
1-2-85  
(Date)

OIL CONSERVATION DIVISION  
JAN 22 1985  
APPROVED \_\_\_\_\_  
BY Charles E. Shaw  
TITLE DEPUTY OIL & GAS INSPECTOR, DIST. #3

This form is to be filed in compliance with RULE 1104.  
If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.  
All sections of this form must be filled out completely for allowable on new and recompleted wells.  
Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of condition.  
Separate Forms C-104 must be filed for each pool in multiply completed wells.

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT

Form C-104  
Revised 10-01-78  
Format 06-01-83  
Page 1

OIL CONSERVATION DIVISION  
P. O. BOX 2088  
SANTA FE, NEW MEXICO 87501

REQUEST FOR ALLOWABLE  
AND  
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

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TRANSPORTER	OIL
	GAS
OPERATOR	
PRODUCTION OFFICE	

I. Operator  
**Amoco Production Company**

Address  
**501 Airport Drive Farmington, NM 87401**

Reason(s) for filing (Check proper box)  
 New Well  
 Recompletion  
 Change in Ownership  
 Change in Transporter of:  
 Oil  
 Casinghead Gas  
 Dry Gas  
 Condensate  
 Other (Please explain)

RECEIVED  
JAN 16 1985  
OIL CON. DIV.  
DIST. 3

If change of ownership give name and address of previous owner \_\_\_\_\_

II. DESCRIPTION OF WELL AND LEASE

Lease Name <b>Com "H"</b>	Well No. <b>180</b>	Pool Name, including Formation <b>Basin Dakota</b>	Kind of Lease State, Federal or Free <b>Free</b>	Lease No.
Location Unit Letter <b>J</b> : <b>1550</b> Feet From The <b>South</b> Line and <b>2130</b> Feet From The <b>East</b> Line of Section <b>28</b> Township <b>29N</b> Range <b>12W</b> , NMPM, <b>San Juan</b> County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input checked="" type="checkbox"/> <b>Permian Corp.</b>	Address (Give address to which approved copy of this form is to be sent) <b>P. O. Box 1702 Farmington, NM 87499</b>
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/> <b>El Paso Natural Gas Company</b>	Address (Give address to which approved copy of this form is to be sent) <b>P. O. Box 990 Farmington, NM 87401</b>
If well produces oil or liquids, give location of tanks.	Unit : <b>J</b> Sec. : <b>28</b> Twp. : <b>29N</b> Rgs. : <b>12W</b> Is gas actually connected? _____ When _____

If this production is commingled with that from any other lease or pool, give commingling order number: \_\_\_\_\_

NOTE: Complete Parts IV and V on reverse side if necessary.

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given is true and complete to the best of my knowledge and belief.

**BDS Shaw**  
(Signature)

Admin. Supervisor  
(Title)

1-2-85  
(Date)

OIL CONSERVATION DIVISION

APPROVED

BY

**Charles Sholten**  
(Signature)

TITLE

**DEPUTY OIL & GAS INSPECTOR, DIST. #3**

This form is to be filed in compliance with RULE 1104.

If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for allowable on new and recompleted wells.

Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of condition.

Separate Forms C-104 must be filed for each pool in multiply completed wells.

073 nmold Aztec

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2084  
SANTA FE, NEW MEXICO 87501

Form C-103  
Revised 10-1-76

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JUL 10 1985  
OIL CONSERVATION DIVISION

3a. Indicate Type of Lease  
State  Fee

5. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS

DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG SALS TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS.

1. OIL WELL  GAS WELL  OTHER \_\_\_\_\_

2. Name of Operator  
Amoco Production Co.

3. Address of Operator  
501 Airport Drive, Farmington, N M 87401

4. Location of well  
UNIT LETTER J 1550 FEET FROM THE South LINE AND 2130 FEET FROM THE East LINE, SECTION 28 TOWNSHIP 29N RANGE 12W WPM.

7. Unit Agreement Name  
Gallegos Canyon Unit Com H

8. Farm or Lease Name

9. Well No.  
180

10. Field and Pool, or Wildcat  
Basin Dakota

15. Elevation (Show whether DF, RT, GR, etc.)  
5338' KB

12. County  
San Juan

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input checked="" type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>	CASING TEST AND CEMENT JOB <input type="checkbox"/>	OTHER <input type="checkbox"/>

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.

Moved in and rigged up service unit on 5-3-85. Total depth of the well is 5965' and plugback depth is 5924'. Set tubing plug at 5750'. Pressure tested tubing to 1500 psi with 2% KCL water. Retrieved plug. Landed 2-3/8" tubing at 5900' and production packer at 5717'. Released the rig on 5-7-85.

**RECEIVED**  
JUN 28 1985  
OIL CON. DIV.  
DIST. 3

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

BD Shaw TITLE Adm. Supervisor DATE 6-21-85

Frank J. Day TITLE SUPERVISOR DISTRICT # 3 DATE JUL 28 1985

ONE OF APPROVAL, IF ANY:

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT

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OIL CONSERVATION DIVISION

P. O. BOX 2088  
SANTA FE, N.M. 87501

Form C-103  
Revised 10-1-78

**RECEIVED**  
APR 22 1985

30. Indicate Type of Lease  
State  Fee

5. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS  
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR TO CONVERT A WELL INTO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS.)

1. <input type="checkbox"/> OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER	7. Unit Agreement Name Gallegos Canyon Unit
2. Name of Operator Amoco Production Co.	8. Farm or Lease Name
3. Address of Operator 501 Airport Drive, Farmington, N M 87401	9. Well No. 180
4. Location of Well UNIT LETTER <u>J</u> <u>1550</u> FEET FROM THE <u>south</u> LINE AND <u>2130</u> FEET FROM THE <u>east</u> LINE. SECTION <u>28</u> TOWNSHIP <u>29N</u> RANGE <u>12W</u> NMPM.	10. Field and Pool, or Wildcat Basin Dakota
15. Elevation (Show whether DF, RT, GR, etc.) 5338' KB	12. County San Juan

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIATION WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>	CASING TEST AND CEMENT JOBS <input type="checkbox"/>	
Repair <input checked="" type="checkbox"/>		OTHER <input type="checkbox"/>	

17. 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.

Amoco Production Co. requests approval to repair the above referenced well according to the attached procedure.

**RECEIVED**  
APR 18 1985  
OIL CON. DIV  
DIST. 3

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

SIGNED B.S. Shaw TITLE Adm. Supervisor DATE 4/13/85

APPROVED BY [Signature] TITLE SUPERVISOR DISTRICT # 3 DATE APR 18 1985

CONDITIONS OF APPROVAL, IF ANY:

FARMINGTON DISTRICT WORKOVER

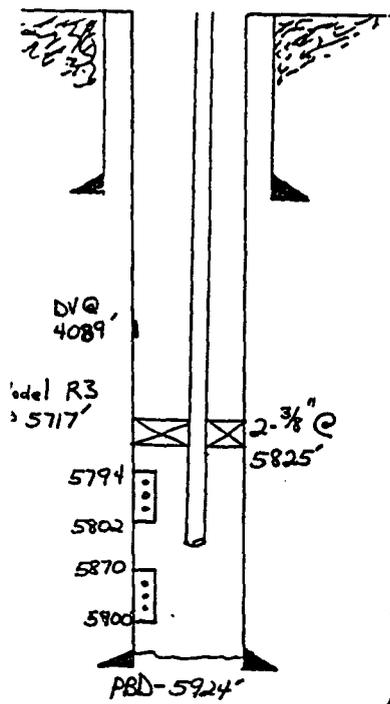
DATE: 4/2/85

OPERATIONS TO BE PERFORMED: (CIRCLE ONE) RECOMPLETION REPAIR SERVICE  
 LEASE AND WELL GCU Com H #180 FIELD Basin Dakota  
 FORMATION Dakota LOGS Induction Log  
 LOCATION SE/4, Sec 28, T29N, R12W San Juan County, New Mexico  
 COMP. DATE 10/64 EL: 5338' AB TD: 5961' PBD: 5924'  
 CSG: 4-1/2" 10.5 # J-55 @ 5961' : 8-5/8" 24.0 # J-55 @ 358'  
 COMP. INT. 5794-5900 ORIG. STIM. 63,500 gal x 60,000"  
 IP 7568 MCFD CURRENT PROD. INT. Same  
 PURPOSE: Repair Casing Leak

TKA BJM TWE ~~GMH~~ DHS 6/PERMITTING DESK MCH ENGR DNE  
~~RGH~~  
~~BYD~~  
~~GMK~~

Note: Formation is sensitive to water. Work well hot.

WELLBORE SKETCH



PROCEDURE

1. MIRUSU. Retrieve Piston.
2. Set tubing plug at 5650'. (Tubing stop is set at 5700'.) Pressure test tubing to 1000 psi with 2% KCl water.
3. TOH with 2-3/8" tubing and Baker Model R-3 Packer. Packer is set at 5717'. Visually inspect tubing and replace any suspect joints. Remove tubing plug. Rabbit tubing.
4. TIH with BP, packer, and 2-3/8" tubing. Set BP at 5750'. Load hole with 2% KCl water. Locate casing leak at approximately 4000'.
5. Establish rate through leak and squeeze with 50 sx Class B.
6. Drill out cement and pressure test casing to 1500 psi.

DISTRICT MANAGER W. H. [Signature]  
 DISTRICT ENGINEER T. K. [Signature]  
 DISTRICT FOREMAN \_\_\_\_\_  
 ENGINEER Morris Bell ext 244 (598-9751)  
 DATE \_\_\_\_\_  
 ENGSPE

7. Unload hole with nitrogen and retrieve BP.
8. Clean out to PBD with nitrogen.
9. Land 2-3/8" tubing at 5900'.

OIL CONSERVATION DIVISION  
P. O. BOX 2044  
SANTA FE, NEW MEXICO 87501

REQUEST FOR ALLOWABLE  
AND  
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

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	GAS
OPERATOR	
PRODUCTION OFFICE	

Operator  
**Amoco Production Company**

Address  
**501 Airport Drive, Farmington, N.M. 87401**

Reason(s) for filing (Check proper box)      Other (Please explain)

New Well	<input type="checkbox"/>	Change in Transporter of:	
Recompletion	<input type="checkbox"/>	Oil	<input type="checkbox"/>
Change in Ownership	<input type="checkbox"/>	Casinghead Gas	<input type="checkbox"/>
		Dry Gas	<input type="checkbox"/>
		Condensate	<input checked="" type="checkbox"/>

If change of ownership give name and address of previous owner \_\_\_\_\_

DESCRIPTION OF WELL AND LEASE

Lease Name <b>Gallegos Canyon Unit Com "H"</b>	Well No. <b>180</b>	Pool Name, including Formation <b>Basin Dakota</b>	Kind of Lease State, Federal or Fee <b>Fee</b>	Lease No.
Location Unit Letter <b>J</b> ; <b>1550</b> Feet From The <b>South</b> Line and <b>2130</b> Feet From The <b>East</b> Line of Section <b>28</b> Township <b>29N</b> Range <b>12W</b> , NMPM, <b>San Juan</b> County				

DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
<b>Plateau, Inc.</b>	<b>P.O. Box 489, Bloomfield, N.M. 87413</b>
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
<b>EL PASO NATURAL GAS COMPANY</b>	
<b>P. O. BOX 990</b>	
If well is in production, give location of tanks.	Is gas actually connected?      When
<b>FARMINGTON, NEW MEXICO</b>	
Unit: <b>J</b> Sec.: <b>28</b> Twp.: <b>29N</b> Rge.: <b>12W</b>	

If this production is commingled with that from any other lease or pool, give commingling order number: \_\_\_\_\_

COMPLETION DATA

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res.v.	Diff. Res.v.
Date Spudded	Date Compl. Ready to Prod.	Total Depth	P.B.T.D.					
Elevations (Dip, RT, CR, etc.)	Name of Producing Formation	Top Oil/Gas Pay	Tubing Depth					
Perforations	Depth Casing Shoe							

TUBING, CASING, AND CEMENTING RECORD

HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT

TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL (Test must be after recovery of total volume of load all and must be equal to or exceed top allowable for this depth or be for full 24 hours)

Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)
Length of Test	Tubing Pressure	Casing Pressure
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.

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DIST. 3

GAS WELL

Actual Prod. Test - MCF/D	Length of Test	Bbls. Condensate/AMCF	Gravity of Condensate
Testing Method (pilot, back pr.)	Tubing Pressure (Shut-in)	Casing Pressure (Shut-in)	Choke Size

CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

*D. Lawson*  
(Signature)  
**District Administrative Supervisor**  
(Title)  
**September 28, 1983**  
(Date)

OIL CONSERVATION DIVISION

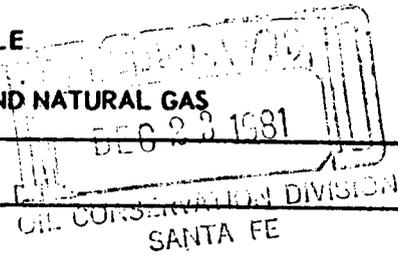
APPROVED: *Frank J. [Signature]*, 19\_\_\_\_  
BY: **SUPERVISOR DISTRICT # 3**  
TITLE: \_\_\_\_\_

This form is to be filed in compliance with RULE 1104.  
If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.  
All sections of this form must be filled out completely for allowable on new and recompleted wells.  
Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of condition.  
Separate forms C-104 must be filed for each pool in multiple completions.

OIL CONSERVATION DIVISION  
P. O. BOX 2088  
SANTA FE, NEW MEXICO 87501

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OPERATOR	
PRODUCTION OFFICE	

REQUEST FOR ALLOWABLE  
AND  
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS



I. Operator  
**AMOCO PRODUCTION COMPANY**  
Address  
**501 Airport Drive, Farmington, NM 87401**

Reason(s) for filing (Check proper box)  
 New Well   
 Recompletion   
 Change in Ownership   
 Change in Transporter of:  
 Oil   
 Casinghead Gas

Other (Please explain)  
**GOC**

If change of ownership give name and address of previous owner \_\_\_\_\_

II. DESCRIPTION OF WELL AND LEASE

Lease Name <b>Gallegos Canyon Unit Com<sup>H</sup>"</b>	Well No. <b>180</b>	Pool Name, including Formation <b>Basin Dakota</b>	Kind of Lease State, Federal or Fee	Fee	Lease No.
Location Unit Letter <b>J</b> ; <b>1550</b> Feet From The <b>South</b> Line and <b>2130</b> Feet From The <b>East</b> Line of Section <b>28</b> Township <b>29N</b> Range <b>12W</b> , NMPM, <b>San Juan</b> County					

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input checked="" type="checkbox"/> <b>Giant Industries, Inc.</b>	Address (Give address to which approved copy of this form is to be sent) <b>P.O. Box 256, Farmington, NM 87401</b>
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/> <b>El Paso Natural Gas Company</b>	Address (Give address to which approved copy of this form is to be sent) <b>P.O. Box 990, Farmington, NM 87401</b>
If well produces oil or liquids, give location of tanks. Unit <b>J</b> Sec. <b>28</b> Twp. <b>29N</b> Rge. <b>12W</b>	Is gas actually connected? When _____

If this production is commingled with that from any other lease or pool, give commingling order number: \_\_\_\_\_

IV. COMPLETION DATA

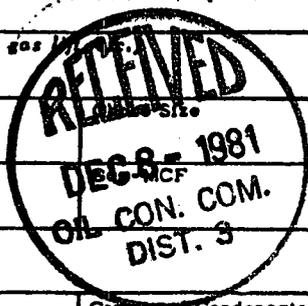
Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v.	Diff. Res'v.
<input checked="" type="checkbox"/>								
Date Spudded	Date Compl. Ready to Prod.		Total Depth			P.B.T.D.		
Elevations (DF, RKB, RT, CR, etc.)	Name of Producing Formation		Top Oil/Gas Pay			Tubing Depth		
Perforations						Depth Casing Shoe		

TUBING, CASING, AND CEMENTING RECORD

HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT

V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift)
Length of Test	Tubing Pressure	Casing Pressure
Actual Prod. During Test	Oil-Bbls.	Water-Bbls.



GAS WELL

Actual Prod. Test-MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (pistol, back pr.)	Tubing Pressure (shut-in)	Casing Pressure (shut-in)	Choke Size

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

*J. Svoboda*  
(Signature)  
**District Administrative Supervisor**  
(Title)

**10/28/81**  
(Date)

OIL CONSERVATION DIVISION **DEC 8 - 1981**

APPROVED \_\_\_\_\_, 19\_\_\_\_  
BY *Michael E. Stegner for*  
TITLE **SUPERVISOR DISTRICT # 3**

This form is to be filed in compliance with RULE 1104.  
If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.  
All sections of this form must be filled out completely for allowable on new and recompleted wells.  
Fill out only Sections I, II, III, and VI for changes of owner well name or number, or transporter, or other such change of condition

OIL CONSERVATION COMMISSION

BOX 697

120 EAST CHACO

AZTEC, NEW MEXICO

MAILED  
'64 DEC 14 AM 10

NOTICE OF GAS CONNECTION

DATE December 11, 1964

THIS IS TO NOTIFY THE OIL CONSERVATION COMMISSION THAT CONNECTION FOR THE PURCHASE OF GAS FROM THE Pan American Petroleum Corporation OPERATOR

Gallegos Canyon No. 180 Unit #1 LEASE "J" WELL UNIT 28-29-12 S-T-R

Basin Dakota POOL El Paso Natural Gas Company NAME OF PURCHASER

WAS MADE ON December 8, 1964 DATE , FIRST DELIVERY December 9, 1964 DATE

Choke 7,568  
APF 10,547  
INITIAL POTENTIAL

El Paso Natural Gas Company  
PURCHASER

Original Signed By W. M. Rodgers

REPRESENTATIVE

Chief Dispatcher  
TITLE

CC: TO OPERATOR **Fort Worth and Farmington**  
OIL CONSERVATION COMMISSION - SANTA FE  
F. N. WOODRUFF - EL PASO  
~~E. D. ADAMS~~

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NEW MEXICO OIL CONSERVATION COMMISSION  
 REQUEST FOR ALLOWABLE  
 AND  
 AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Form C-104  
 Supersedes Old C-104 and C-1  
 Effective 1-1-65

MAIN OFFICE  
 '65 Oct 4 AM

I. Operator  
**PAN AMERICAN PETROLEUM CORPORATION**  
 Address  
**Security Life Building, Denver, Colorado**  
 Reason(s) for filing (Check proper box)  
 New Well  Change in Transporter of:  
 Recompletion  Oil  Dry Gas   
 Change in Ownership  Casinghead Gas  Condensate   
 Other (Please explain)  
 Eff. 2-1-71,  
 Pan American Petro. Corp.  
 has changed its name to  
 AMOCO PROD. CO.

**CHANGE**  
 JK [Signature]

II. DESCRIPTION OF WELL AND LEASE  
 Lease Name **Gallegos Canyon Unit Com "H"** Well No. **1780** Pool Name, Including Formation **Basin Dakota** Kind of Lease **Fee**  
 Location  
 Unit Letter **J** ; **1550** Feet From The **South** Line and **2130** Feet From The **East**  
 Line of Section **28** , Township **29N** Range **10W** , NMPM, **San Juan** County

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS  
 Name of Authorized Transporter of Oil  or Condensate   
**Graves Oil Company** Address (Give address to which approved copy of this form is to be sent)  
**P. O. Box 2077, Farmington, New Mexico**  
 Name of Authorized Transporter of Casinghead Gas  or Dry Gas   
**El Paso Natural Gas Company** Address (Give address to which approved copy of this form is to be sent)  
**P. O. Box 990, Farmington, New Mexico**  
 If well produces oil or liquids, give location of tanks. Unit **J** Sec. **28** Twp. **29N** Rge. **10W** Is gas actually connected? **Yes** When **12-9-64**

If this production is commingled with that from any other lease or pool, give commingling order number:

IV. COMPLETION DATA  
 Designate Type of Completion - (X) Oil Well Gas Well New Well Workover Deepen Plug Back Same Res'v. Diff. Res'v.  
 Date Spudded Date Compl. Ready to Prod. Total Depth P.B.T.D.  
 Pool Name of Producing Formation Top Oil/Gas Pay Tubing Depth  
 Perforations Depth Casing Shoe  
**TUBING, CASING, AND CEMENTING RECORD**  
 HOLE SIZE CASING & TUBING SIZE DEPTH SET SACKS CEMENT

V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)  
 Date First New Oil Run To Tanks Date of Test Producing Method (Flow, pump, gas lift, etc.)  
 Length of Test Tubing Pressure Casing Pressure Choke Size  
 Actual Prod. During Test Oil-Bbls. Water-Bbls. Gas-Bbls.  
**GAS WELL**  
 Actual Prod. Test-MCF/D Length of Test Bbls. Condensate/MMCF  
 Testing Method (pitot, back pr.) Tubing Pressure Casing Pressure Choke Size

**RECEIVED**  
 SEP 28 1965  
 OIL CON. COM.  
 DIST. 3

VI. CERTIFICATE OF COMPLIANCE  
 I hereby certify that the rules and regulations of the Oil Conservation Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief.  
 [Signature]  
 Administrative Assistant  
 September 27, 1965  
 OIL CONSERVATION COMMISSION  
 APPROVED SEP 28 1965  
 BY [Signature]  
 TITLE Supervisor Dist. # 3  
 This form is to be filed in compliance with RULE 1104.  
 If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.  
 All sections of this form must be filled out completely for allowable on new and recompleted wells.  
 Fill out Sections I, II, III, and VI only for changes of owner well name or number, or transporter, or other such change of condition.  
 Separate Forms C-104 must be filed for each pool in multiple completed wells.

# NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

## WELL RECORD

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MAIN OFFICE					
	NOV 9 AM 8				
		X			

Mail to District Office, Oil Conservation Commission, to which Form C-101 was sent not later than twenty days after completion of well. Follow instructions in Rules and Regulations of the Commission. Submit in **QUINTUPLICATE** If State Land submit 6 Copies

AREA 640 ACRES  
LOCATE WELL CORRECTLY.

PAN AMERICAN PETROLEUM CORPORATION Gallegos Canyon No. 180 Unit  
(Company or Operator) (Lease)

Well No. 1, in NW  $\frac{1}{4}$  of SE  $\frac{1}{4}$ , of Sec. 28, T-29-N, R-10-W, NMPM.  
Basin Dakota Pool, San Juan County.

Well is 1550 feet from South line and 2130 feet from East line of Section 28. If State Land the Oil and Gas Lease No. is \_\_\_\_\_

Drilling Commenced September 29, 1964. Drilling was Completed October 8, 1964.

Name of Drilling Contractor Cactus Drilling Corp.

Address Drawer 71, San Angelo, Texas

Elevation above sea level at Top of Tubing Head 5338 (RDB). The information given is to be kept confidential until Not Confidential, 19    .

### OIL SANDS OR ZONES

No. 1, from 5790 to 5860 (Gas) No. 4, from \_\_\_\_\_ to \_\_\_\_\_  
No. 2, from 5860 to 5900 (Gas) No. 5, from \_\_\_\_\_ to \_\_\_\_\_  
No. 3, from \_\_\_\_\_ to \_\_\_\_\_ No. 6, from \_\_\_\_\_ to \_\_\_\_\_

### IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from \_\_\_\_\_ to \_\_\_\_\_ feet.  
No. 2, from \_\_\_\_\_ to \_\_\_\_\_ feet.  
No. 3, from \_\_\_\_\_ to \_\_\_\_\_ feet.  
No. 4, from \_\_\_\_\_ to \_\_\_\_\_ feet.

### CASING RECORD

SIZE	WEIGHT PER FOOT	NEW OR USED	AMOUNT	KIND OF SHOE	CUT AND PULLED FROM	PERFORATIONS	PURPOSE
8-5/8"	24#	New	346	Guide			Surface
4-1/2"	10.5#	New	5987	Guide			Oil String

### MUDDING AND CEMENTING RECORD

SIZE OF HOLE	SIZE OF CASING	WHERE SET	NO. SACKS OF CEMENT	METHOD USED	MUD GRAVITY
12-1/4"	8-5/8"	358	200	Howco 1 Plug	
7-7/8"	4-1/2"	5961	1315	Howco 2 Stage	

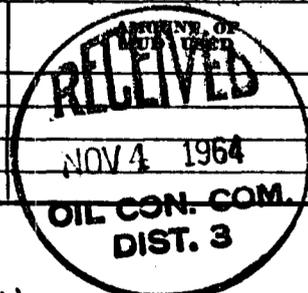
### RECORD OF PRODUCTION AND STIMULATION

(Record the Process used, No. of Qts. or Gals. used, interval treated or shot.)

Perforated Main Dakota 5870-5900 with 2 shots per foot. Fractured these perforations with 43,000 gallons water containing 1% calcium chloride and 7 pounds J-2 per 1000 gallons and 40,000 pounds sand. Breakdown pressure 1700 psi, average treating 2850 psi, average injection rate 46-1/2 BPM. Bridge plug set at 5850 and tested with 3000 psi. Test OK. Perforated Graneros 5794-5802 with 6 shots per foot. Fractured these perforations with 20,500 gallons water treated as above and containing 20,000 pounds sand. Breakdown pressure 1300 psi, average treating 2800 psi, average injection rate 36 BPM. Drilled out bridge plug and cleaned well up.

2-3/8" tubing set at 5825 with packer set at 5817. Annulus between 2-3/8" tubing and Result of Production Stimulation 4-1/2" casing loaded with water containing corrosion inhibitor. Well completed 10-19-64 as Basin Dakota Field Development Well. Preliminary test 6500 MCFD.

Depth Cleaned Out 5924



**RECORD OF DRILL-STEM AND SPECIAL TESTS**

If drill-stem or other special tests or deviation surveys were made, submit report on separate sheet and attach hereto

**TOOLS USED**

Rotary tools were used from 0 feet to 5965 feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet.  
 Cable tools were used from \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet.

**PRODUCTION**

Put to Producing Shut In October 19, 19 64.

**OIL WELL:** The production during the first 24 hours was \_\_\_\_\_ barrels of liquid of which \_\_\_\_\_ % was oil; \_\_\_\_\_ % was emulsion; \_\_\_\_\_ % water; and \_\_\_\_\_ % was sediment. A.P.I. Gravity \_\_\_\_\_

**GAS WELL:** The production during the first 24 hours was 6500 M.C.F. plus 0 barrels of liquid Hydrocarbon. Shut in Pressure 2075 lbs.

Length of Time Shut in 18 Hours

**PLEASE INDICATE BELOW FORMATION TOPS (IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE):**

**Southeastern New Mexico**

**Northwestern New Mexico**

T. Anby.....	T. Devonian.....	T. Ojo Alamo.....
T. Salt.....	T. Silurian.....	T. Kirtland-Fruitland.....
B. Salt.....	T. Montoya.....	T. Farmington.....
T. Yates.....	T. Simpson.....	T. Pictured Cliffs.....
T. 7 Rivers.....	T. McKee.....	T. Menefee.....
T. Queen.....	T. Ellenburger.....	T. Point Lookout.....
T. Grayburg.....	T. Gr. Wash.....	T. Mancos.....
T. San Andres.....	T. Granite.....	T. Dakota.....
T. Glorieta.....	T. ....	T. Morrison.....
T. Drinkard.....	T. ....	T. Penn.....
T. Tubbs.....	T. ....	T. ....
T. Abo.....	T. ....	T. ....
T. Penn.....	T. ....	T. ....
T. Miss.....	T. ....	T. ....

**FORMATION RECORD**

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	1265	1265	Surface Sand and Shale				
1265	1420	155	Pictured Cliffs				
1420	2990	1570	Lewis Shale				
2990	4000	1010	Mesaverde				
4000	4934	934	Mancos				
4934	5304	370	Gallup				
5304	5702	398	Base Gallup				
5702	5750	48	Greenhorn				
5750	5790	40	Graneros Shale				
5790	5860	70	Graneros Dakota				
5860	5965	105	Main Dakota				

• ATTACH SEPARATE SHEET IF ADDITIONAL SPACE IS NEEDED

I hereby swear or affirm that the information given herewith is a complete and correct record of the well and all work done on it so far as can be determined from available records.

Farmington, New Mexico October 28, 1964  
(Date)

Company or Operator PAN AMERICAN PETROLEUM CORP.  
Fred L. Nabors, District Engineer

Address P. O. Box 480, Farmington, New Mexico.

Name Fred L. Nabors

Position or Title \_\_\_\_\_

MAIN OFFICE OF  
NOV 9 AM 9

TABULATION OF DEVIATION TESTS  
PAN AMERICAN PETROLEUM CORPORATION  
GALLEGOS CANYON UNIT 180 WELL NO. 1

<u>DEPTH</u>	<u>DEVIATION</u>
358'	1/4°
890'	1/4°
1611'	1/2°
2042'	1°
2425'	1°
2866'	1°
3430'	1°
3680'	1°
4185'	1-1/4°
4415'	1°
4906'	1°
5168'	1°
5810'	1°

A F F I D A V I T

THIS IS TO CERTIFY that to the best of my knowledge the above tabulation details the deviation test taken on PAN AMERICAN PETROLEUM CORPORATION'S Gallegos Canyon Unit 180 Well No. 1, Basin Dakota Field, located in the NW/4, SE/4 of Section 28, T-29-N, R-12-W, San Juan County, New Mexico.

Signed F. H. Hollingsworth  
Petroleum Engineer

THE STATE OF NEW MEXICO )  
  ) SS.  
COUNTY OF SAN JUAN        )

BEFORE ME, the undersigned authority, on this day personally appeared F. H. Hollingsworth known to me to be Petroleum Engineer for Pan American Petroleum Corporation and to be the person whose name is subscribed to the above statement, who, being by me duly sworn on oath, states that he has knowledge of the facts stated herein and that said statement is true and correct.

SUBSCRIBED AND SWORN TO before me, a Notary Public in and for said County and State this 28th day of October, 1964.

C. K. Dietz  
Notary Public

My Commission Expires February 27, 1965.



NEW MEXICO OIL CONSERVATION COMMISSION

FORM C-103  
(Rev 3-55)

MISCELLANEOUS REPORTS ON WELLS

(Submit to appropriate District Office as per Commission Rule 1106)

Name of Company PAN AMERICAN PETROLEUM CORPORATION			Address P. O. Box 480, Farmington, New Mexico			
Lease Gallegos Canyon No. 180 Unit	Well No. 1	Unit Letter J	Section 28	Township T-29-N	Range R-12-W	
Date Work Performed	Pool Basin Dakota	County San Juan				

THIS IS A REPORT OF: (Check appropriate block)

- Beginning Drilling Operations    
  Casing Test and Cement Job    
  Other (Explain): Report of Potential Test  
 Plugging    
  Remedial Work

Detailed account of work done, nature and quantity of materials used, and results obtained.

This is to report the following Potential Test:

Potential Test October 26, 1964. Flowed 7568 MCFPD through 3/4" choke after 3 hours flow. Absolute open flow potential 10,547 MCFPD. Shut in tubing pressure after 7 days 2145 psig.



Witnessed by	Position	Company
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FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY

ORIGINAL WELL DATA

DF Elev.	TD	PBTD	Producing Interval	Completion Date
Tubing Diameter	Tubing Depth	Oil String Diameter	Oil String Depth	
Perforated Interval(s)				
Open Hole Interval		Producing Formation(s)		

RESULTS OF WORKOVER

Test	Date of Test	Oil Production BPD	Gas Production MCFPD	Water Production BPD	GOR Cubic feet/Bbl	Gas Well Potential MCFPD
Before Workover						
After Workover						

OIL CONSERVATION COMMISSION

I hereby certify that the information given above is true and complete to the best of my knowledge.

Approved by <i>A. R. Gendrick</i>	Name <i>G. B. Turner</i>
Title PETROLEUM ENGINEER DIST. NO. 3	Position Administrative Clerk
Date NOV 18 1964	Company PAN AMERICAN PETROLEUM CORPORATION

NUMBER OF COPIES RECEIVED	
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SANTA FE	5
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LAND OFFICE	
TRANSPORTER	
OIL	
GAS	
PRODUCTION OFFICE	
OPERATOR	

NEW MEXICO OIL CONSERVATION COMMISSION  
SANTA FE, NEW MEXICO

**CERTIFICATE OF COMPLIANCE AND AUTHORIZATION  
TO TRANSPORT OIL AND NATURAL GAS**

FORM C-110  
(Rev. 7-60)

FILE THE ORIGINAL AND 4 COPIES WITH THE APPROPRIATE OFFICE

Company or Operator: **PAN AMERICAN PETROLEUM CORPORATION**      Lease: **Gallegos Canyon No. 180 Unit**      Well No.: **1**

Unit Letter: **J**      Section: **28**      Township: **T-29N**      Range: **R-12W**      County: **San Juan**

Pool: **Basin Dakota**      Kind of Lease (State, Fed, Fee): **Fee**

If well produces oil or condensate give location of tanks: \_\_\_\_\_      Unit Letter: **J**      Section: **28**      Township: **T-29N**      Range: **R-12W**

Authorized transporter of oil  or condensate : **Plateau, Incorporated**      Address (give address to which approved copy of this form is to be sent): **P. O. Box 108, Farmington, New Mexico**

Is Gas Actually Connected? Yes \_\_\_\_\_ No ~~\_\_\_\_\_~~

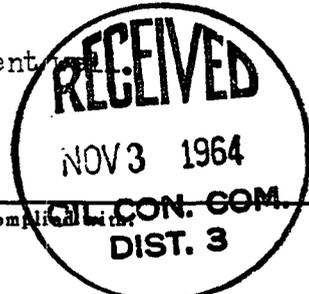
Authorized transporter of casing head gas  or dry gas : **El Paso Natural Gas Company**      Date Connected: \_\_\_\_\_      Address (give address to which approved copy of this form is to be sent): **P. O. Box 990, Farmington, New Mexico**

If gas is not being sold, give reasons and also explain its present disposition:

**REASON(S) FOR FILING (please check proper box)**

New Well .....       Change in Ownership .....   
Change in Transporter (check one)      Other (explain below)  
Oil .....       Dry Gas ....   
Casing head gas .       Condensate . .

Remarks: **Well completed October 19, 1964 as Basin Dakota Field Development**



The undersigned certifies that the Rules and Regulations of the Oil Conservation Commission have been complied with.

Executed this the 27th day of October, 1964.

OIL CONSERVATION COMMISSION	By: <i>L.R. Zurner</i>
Approved by: <i>Conroy Lewis</i>	Title: <b>Administrative Clerk</b>
Title: <b>Supervisor Dist. # 3</b>	Company: <b>PAN AMERICAN PETROLEUM CORPORATION</b>
Date: <b>NOV 3 1964</b>	Address: <b>P. O. Box 480, Farmington, New Mexico</b>

NUMBER OF COPIES RECEIVED	
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TRANSPORTER	OIL
	GAS
PRODUCTION OFFICE	
OPERATOR	

NEW MEXICO OIL CONSERVATION COMMISSION

(Form C-104)  
Revised 7/1/57

Santa Fe, New Mexico

REQUEST FOR (OIL) - (GAS) ALLOWABLE

New Well  
Recompletion

This form shall be submitted by the operator before an initial allowable will be assigned to any completed Oil or Gas well. Form C-104 is to be submitted in QUADRUPPLICATE to the same District Office to which Form C-101 was sent. The allowable will be assigned effective 7:00 A.M. on date of completion or recompletion, provided this form is filed during calendar month of completion or recompletion. The completion date shall be that date in the case of an oil well when new oil is delivered into the stock tanks. Gas must be reported on 15.025 psia at 60° Fahrenheit.

Farmington, New Mexico October 28, 1964  
(Place) (Date)

WE ARE HEREBY REQUESTING AN ALLOWABLE FOR A WELL KNOWN AS:

PAN AMERICAN PETROLEUM CORP. Gallegos Canyon No. 180 Unit, Well No. 1, in NW 1/4 SE 1/4,  
(Company or Operator) (Lease)  
J, Sec. 28, T. 29-N, R. 12-W, NMPM, Basin Dakota Pool  
Unit Letter San Juan

County. Date Spudded 9-29-64 Date Drilling Completed 10-8-64  
Elevation 5338 (FDB) Total Depth 5965 PBD 5924

Please indicate location:

D	G	B	A
E	F	G	H
L	K	J	I
M	N	O	P

Top Oil/Gas Pay 5790 Name of Prod. Form. Dakota

PRODUCING INTERVAL - 5870-5900 with 2 shots per foot.

Perforations 5794-5802 with 6 shots per foot.

Open Hole None Depth Casing Shoe 5961 Depth Tubing 5825

OIL WELL TEST -

Natural Prod. Test: \_\_\_\_\_ bbls. oil, \_\_\_\_\_ bbls water in \_\_\_\_\_ hrs, \_\_\_\_\_ min. Size \_\_\_\_\_ Choke  
Test After Acid or Fracture Treatment (after recovery of volume of oil equal to volume of load oil used): \_\_\_\_\_ bbls. oil, \_\_\_\_\_ bbls water in \_\_\_\_\_ hrs, \_\_\_\_\_ min. Size \_\_\_\_\_ Choke

GAS WELL TEST -

Natural Prod. Test: \_\_\_\_\_ MCF/Day; Hours flowed \_\_\_\_\_ Choke Size \_\_\_\_\_

1550 FSL and 2130 FEL  
(FOOTAGE)

Tubing, Casing and Cementing Record

Size	Feet	Sax
8-5/8"	346	200
4-1/2"	5987	1315
2-3/8"	5844	

Method of Testing (pitot, back pressure, etc.): \_\_\_\_\_

Test After Acid or Fracture Treatment: 6500 MCF/Day; Hours flowed 3

Choke Size 3/4" Method of Testing: Pitot Tube

Acid or Fracture Treatment (Give amounts of materials used, such as acid, water, oil, and sand): 63,500 Gallons Water and 60,000 Pounds Sand

Casing Tubing Date first new Press. \_\_\_\_\_ 525 oil run to tanks Shut In

Oil Transporter Plateau, Incorporated

Gas Transporter El Paso Natural Gas Company

Remarks: Well completed October 19, 1964 as Basin Dakota Field Development Well. Copies of Deviation Survey are attached.

I hereby certify that the information given above is true and complete to the best of my knowledge.

Approved NOV 3 1964, 19

PAN AMERICAN PETROLEUM CORPORATION  
(Company or Operator) NOV 3 1964

By: L. O. Speer, Jr. (Signature)  
OIL CON. COM. DIST. 3

OIL CONSERVATION COMMISSION

By: \_\_\_\_\_

Title Supervisor Dist. # 3

Title Administrative Clerk

Send Communications regarding well to:

Name L. O. Speer, Jr.

Address Box 480, Farmington, New Mexico

NUMBER OF COPIES RECEIVED	
DISTRIBUTION	
SANTA FE	
FILE	
U.S.G.S.	
LAND OFFICE	
TRANSPORTER	OIL
	GAS
PRODUCTION OFFICE	
OPERATOR	2

NEW MEXICO OIL CONSERVATION COMMISSION

FORM C-103  
(Rev 3-55)

MISCELLANEOUS REPORTS ON WELLS

(Submit to appropriate District Office as per Commission Rule 1106)

Name of Company PAN AMERICAN PETROLEUM CORPORATION				Address P. O. Box 480, Farmington, New Mexico			
Lease Gallegos Canyon No. 180 Unit	Well No. 1	Unit Letter J	Section 28	Township T-29N	Range R-12W		
Date Work Performed	Pool Basin Dakota	County San Juan					

THIS IS A REPORT OF: (Check appropriate block)

- Beginning Drilling Operations    
 Casing Test and Cement Job    
 Other (Explain): Well History  
 Plugging    
 Remedial Work

Detailed account of work done, nature and quantity of materials used, and results obtained.

Well was spudded on September 29, 1964 and drilled to a depth of 358'. 8-5/8" casing was set at that depth with 200 sacks cement containing 2% calcium chloride. Cement circulated to surface. After waiting on cement, tested casing with 1000# psi. Test ok. Reduced hole size to 7-7/8" and resumed drilling.

Well was drilled to a total depth of 5,965'. 4-1/2" casing was landed at 5961' with 2 stage tool set at 4089'. Cemented first stage with 400 sacks cement containing 6% gel and 2 pounds medium Tuf Plug per sack followed by 200 sacks cement. Cemented second stage with 815 sacks cement containing 6% gel and 2 pounds medium Tuf Plug per sack. Cement circulated to surface.

Perforated Main Dakota 5870-5900 with 2 shots per foot. Fractured these perforations with 43,000 gallons water containing 1% calcium chloride and 7 pounds J-2 per 1000 gallons and 40,000 pounds sand. Breakdown pressure 1700 psi. Average treating 2850 psi. Average injection rate 46-1/2 BFM. Bridge plug set at 5850 and tested with 3000 psi. Test ok. Perforated Graneros 5794-5802 with 6 shots per foot. Fractured these perforations with 20,500 gallons water treated as above and containing 20,000 pounds sand. Breakdown pressure 1300 psi. Average treating 2800 psi. Average injection rate 36 BFM.

(SEE REVERSE SIDE)

Witnessed by	Position	Company
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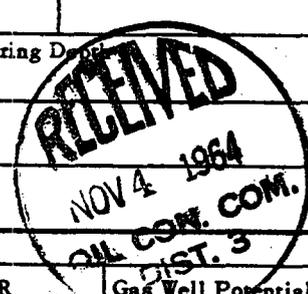
FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY

ORIGINAL WELL DATA

D F Elev.	T D	P B T D	Producing Interval	Completion Date
Tubing Diameter	Tubing Depth	Oil String Diameter	Oil String Depth	
Perforated Interval(s)		Producing Formation(s)		
Open Hole Interval				

RESULTS OF WORKOVER

Test	Date of Test	Oil Production BPD	Gas Production MCFPD	Water Production BPD	GOR Cubic feet/Bbl	Gas Well Potential MCFPD
Before Workover						
After Workover						



OIL CONSERVATION COMMISSION		I hereby certify that the information given above is true and complete to the best of my knowledge.	
Approved by <i>[Signature]</i>		Name Fred L. Nabors, District Engineer	
Title Supervisor Dist. # 3		Position	
Date NOV 4 1964		Company PAN AMERICAN PETROLEUM CORPORATION	

2-3/8" tubing set at 5825' with packer set at 5817'. Annulus between 2-3/8" tubing and 4-1/2" casing loaded with water containing corrosion inhibitor. Well completed October 19, 1964 as Basin Dakota Field Development Well.

Preliminary test 6500 MCFD.

**NEW MEXICO OIL CONSERVATION COMMISSION**  
**Santa Fe, New Mexico**

Form C-101  
 Revised (12/1/55)

**NOTICE OF INTENTION TO DRILL**

Notice must be given to the District Office of the Oil Conservation Commission and approval obtained before drilling or recompletion begins. If changes in the proposed plan are considered advisable, a copy of this notice showing such changes will be returned to the sender. Submit this notice in **QUINTUPLICATE**. One copy will be returned following approval. See additional instructions in Rules and Regulations of the Commission. **If State Land submit 6 Copies Attach Form C-128 in triplicate to first 3 copies of form C-101**

Farmington, New Mexico  
 (Place)

September 4, 1964  
 (Date)

**OIL CONSERVATION COMMISSION**  
**SANTA FE, NEW MEXICO**

Gentlemen:

You are hereby notified that it is our intention to commence the Drilling of a well to be known as  
**PAN AMERICAN PETROLEUM CORPORATION**

(Company or Operator)

Gallegos Canyon No. 180 Unit  
 (Lease)

Well No. 1, in J The well is

located 1550 feet from the South line and 2130 feet from the

East line of Section 28, T -29-N, R -12-W, NMPM.

(GIVE LOCATION FROM SECTION LINE) Basin Dakota Pool, San Juan County

If State Land the Oil and Gas Lease is No. ---

If patented land the owner is McGee Park Association

Address Farmington, New Mexico

We propose to drill well with drilling equipment as follows: Rotary Tools to total depth.

The status of plugging bond is Statewide

Drilling Contractor Brinkerhoff Drilling Company

870 Denver Club Bldg.

Denver, Colorado

We intend to complete this well in the Dakota

formation at an approximate depth of 6000 feet.

**CASING PROGRAM**

We propose to use the following strings of Casing and to cement them as indicated:

Size of Hole	Size of Casing	Weight per Foot	New or Second Hand	Depth	Sacks Cement
12-1/4"	8-5/8"	24#	New	350	250
7-7/8"	4-1/2"	10.5#	New	6000	1600 (2 Stage tool set 100' below base of Mesaverde)

If changes in the above plans become advisable we will notify you immediately.

**ADDITIONAL INFORMATION (If recompletion give full details of proposed plan of work.)**

Completion will be as indicated upon reaching total depth.

Copies of any logs run will be furnished upon completion of well.

Copies of location plat are attached.

Approved 9-9, 1964

Except as follows:

Sincerely yours,

**PAN AMERICAN PETROLEUM CORPORATION**  
 Fred L. Nabors, (Company or Operator) District Engineer

By F. H. Gallagher

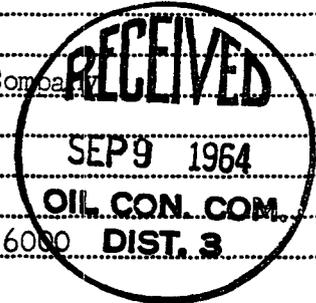
Position Send Communications regarding well to

Name L. O. Speer, Jr.

Address Box 480, Farmington, New Mexico

**OIL CONSERVATION COMMISSION**

By [Signature]



NEW MEXICO OIL CONSERVATION COMMISSION

Well Location and Acreage Dedication Plat

AM 8 15

Section A.

Date AUGUST 28, 1964

Operator PAN AMERICAN PETROLEUM CORPORATION Lease GALLEGOS CANYON NO. 180 UNIT  
 Well No. 1 Unit Letter J Section 28 Township 29 NORTH Range 12 WEST NMPM  
 Located 1550 Feet From the SOUTH Line, 2130 Feet From the EAST Line  
 County SAN JUAN G. L. Elevation REPORT LATER Dedicated Acreage 320 Acres  
 Name of Producing Formation DAKOTA Pool BASIN DAKOTA

1. Is the Operator the only owner in the dedicated acreage outlined on the plat below?  
 Yes \_\_\_\_\_ No X
2. If the answer to question one is "no", have the interests of all the owners been consolidated by communitization agreement or otherwise? Yes X No \_\_\_\_\_ If answer is "yes" Type of Consolidation Communitization agreements being signed by Pan Am - S/2 Section 28 contains tracts both committed and not committed (Pan Am leases) to Gallegos Canyon Unit. Sufficient working interest owners approved.
3. If the answer to question two is "no", list all the owners and their respective interests below:

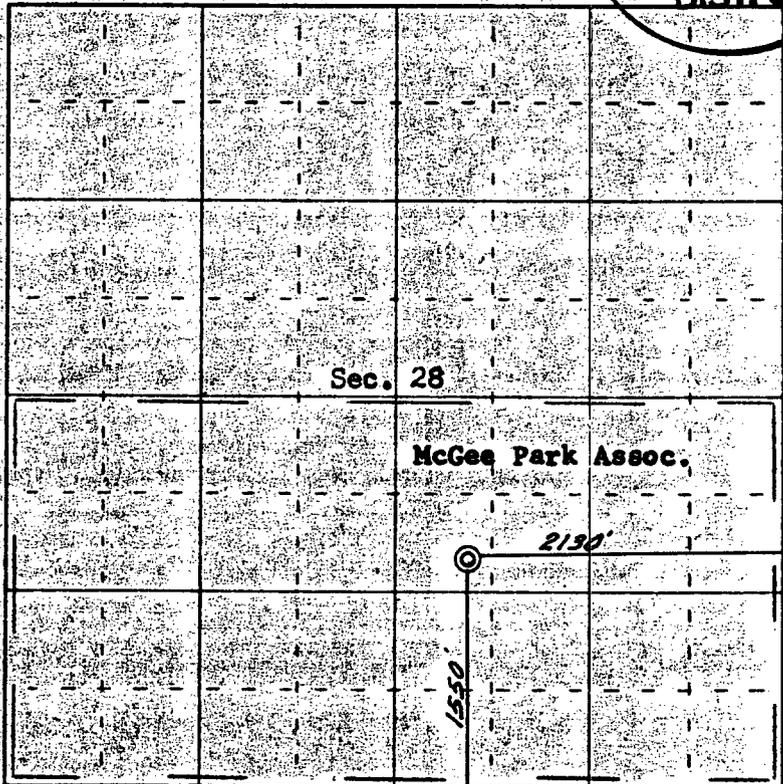
Owner	Land Description



Section B.

This is to certify that the information in Section A above is true and complete to the best of my knowledge and belief.

Note: All distances must be from outer boundaries of section.



Scale 4 inches equal 1 mile

PAN AMERICAN PETROLEUM CORP.  
F. H. Hollingsworth (Operator)  
F. H. Hollingsworth  
 (Representative)  
P. O. Box 480  
 (Address)  
Farmington, New Mexico

Ref: GLO plat dated 7 April 1881



This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.

Date Surveyed July 30, 1964

James P. Lease  
 Registered Professional Engineer and/or Land Surveyor  
 James P. Lease, N. Mex. Reg. No. 1463