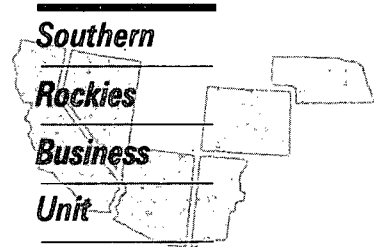




OIL CONSERVATION DIVISION  
RECEIVED

'95 NOV 8 AM 8 52



November 2, 1995

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

**Application For Unorthodox Location**  
**Michener A LS #5 Well**  
**1090' FNL, 600' FEL, Section 31-T28N-R9W**  
**Otero Chacra Pool**  
**San Juan County, New Mexico**

Amoco Production Company hereby requests administrative approval for an unorthodox well location for the Michener A LS #5 well in the Otero Chacra Pool. Amoco plans to recomplete this well from the Mesaverde to the Chacra. The spacing unit for this existing well is the NE/4 of Section 31 for the Otero Chacra. This well was also at an unorthodox location in the Mesaverde due to extreme topographic conditions. Attached you will find a copy of Administrative order NSL-87 dated January 23, 1957 granting approval for the unorthodox location in the Mesaverde. This well encroaches 190' to the outer boundary of the spacing unit due to those topographic limitations.

A copy of this application will be submitted to the offset operators by certified mail with a request that they furnish your Santa Fe office with a Waiver of Objection, and return one copy to this office. Attached are plats showing the location of the well, offset operators, and all wells drilled in the area.

Pamela W. Staley

**Attachments**

cc: Frank Chavez, Supervisor      Steve Webb, Amoco  
     NMOCD District III              Gail Jefferson, Amoco  
     1000 Rio Brazos Road  
     Aztec, NM 87410

**WAIVER**

\_\_\_\_\_ hereby waives objection to Amoco's application for an unorthodox well location for the Michener A LS #5 well described above.

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

Date: \_\_\_\_\_

CMD :  
OG5SECT

ONGARD  
INQUIRE LAND BY SECTION

11/09/95 18:52:10  
OGOMES -EMEZ  
PAGE NO: 2

Sec : 31 Twp : 28N Rng : 09W Section Type : NORMAL

3 31.94  Federal owned A	K 40.00  Federal owned	J 40.00  Federal owned	I 40.00  Federal owned A A
4 30.09  Federal owned A A	5 38.79  Federal owned	6 40.31  Federal owned	7 41.84  Federal owned

PF01 HELP  
PF07 BKWD

PF02  
PF08 FWD

PF03 EXIT  
PF09 PRINT

PF04 GoTo  
PF10 SDIV

PF05  
PF11

PF06  
PF12

CMD :  
OG5SECT

ONGARD  
INQUIRE LAND BY SECTION

11/09/95 18:52:17  
OGOMES -EMEZ  
PAGE NO: 1

Sec : 31 Twp : 28N Rng : 09W Section Type : NORMAL

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2 31.72  Federal owned	F 40.00  Federal owned	G 40.00  Federal owned	H 40.00  Federal owned  A

M0002: This is the first page

PF01 HELP  
PF07 BKWD

PF02  
PF08 FWD

PF03 EXIT  
PF09 PRINT

PF04 GoTo  
PF10 SDIV

PF05  
PF11

PF06  
PF12

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

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

OIL CONSERVATION DIVISION

6. Lease Designation and Serial No.

95 AUG 8 AM 8 SF-077107

8. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Michener A LS #5

9. API Well No.

3004507059

10. Field and Pool, or Exploratory Area

Blanco Mesaverde

11. County or Parish, State

San Juan New Mexico

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

2. Name of Operator

Amoco Production Company

Attention:

Gail M. Jefferson, Rm 1295C

3. Address and Telephone No.

P.O. Box 800, Denver, Colorado 80201

(303) 830-6157

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

1090FNL 600FEL Sec. 31 T 28N R 9W Unit A

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 Plug MV Recom Chacra  
☐ 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 plug the Mesaverde horizon and recomplete this well to the Chacra per the attached procedures.

If you have any technical questions please contact Steve Webb at (303) 830-4206 or Gail Jefferson for any administrative questions.

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95 AUG -8 PM 2:19

070 FARMINGTON, NM

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AUG 2 5 1995

RECEIVED  
AUG 1 4 1995

OIL CON. DIV.  
DIST. 3

OIL CON. DIV.  
DIST. 3

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

Signed

Gail M. Jefferson

Title

Sr. Admin. Staff Asst.

APPROVED AUG 9 1995

(This space for Federal or State office use)

Approved by

Title

Conditions of approval, if any:

AUG 09 1995  
Date

DISTRICT MANAGER

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.

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

dh  
C

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

1 API Number 3004507059		2 Pool Code 72329		3 Pool Name Otero Chacra		
4 Property Code 000871		5 Property Name Michener A LS			6 Well Number 5	
7 OGRID No. 000778		8 Operator Name Amoco Production Company			9 Elevation 6059	

10 Surface Location

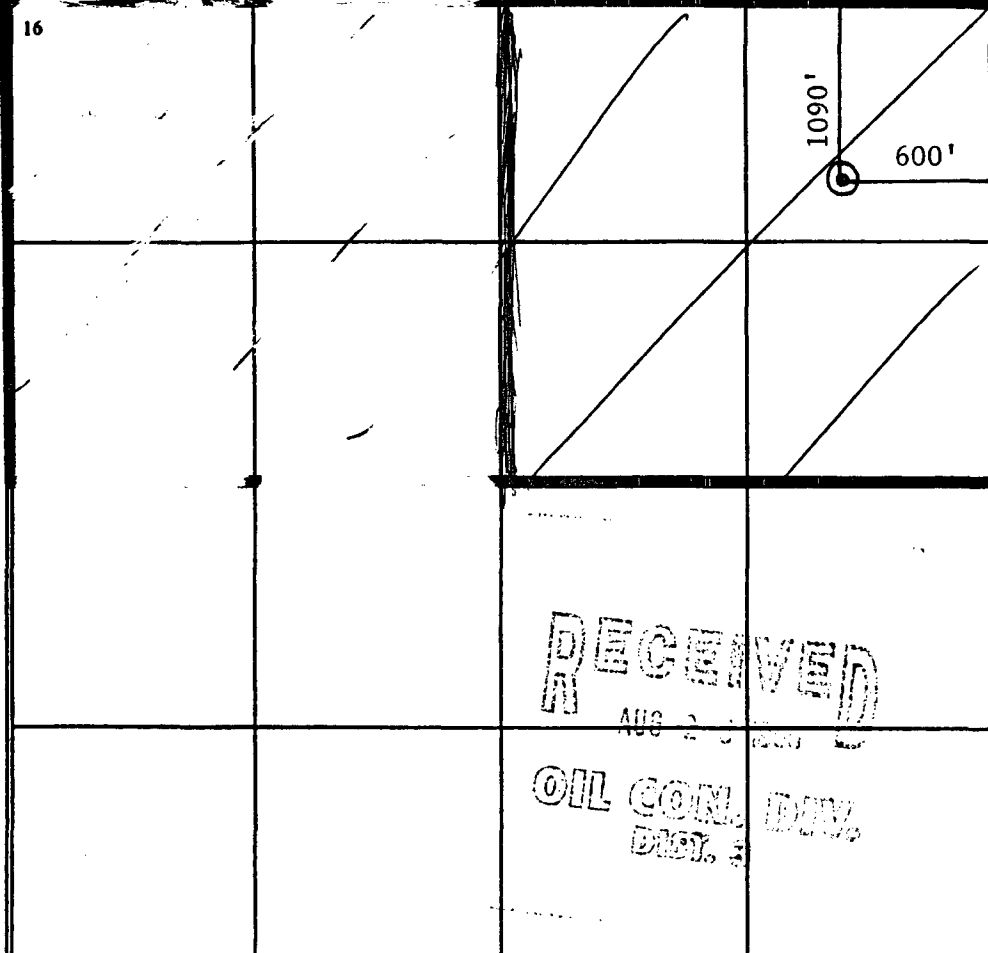
UL or lot no. A	Section 31	Township 28N	Range 9W	Lot Idn	Feet from the 1090	North/South line North	Feet from the 600	East/West line East	County San Juan
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11 Bottom Hole Location If Different From Surface

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 1.60	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>Gail M. Jefferson</u> Gail M. Jefferson Printed Name Sr. Admin. Staff Asst. Title 8/24/95 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. December 18, 1956 Date of Survey Signature and Seal of Professional Surveyer:  On File Certificate Number

RECEIVED  
AUG 23 1995  
OIL CON. DIV.  
DIST. 3

Michener A LS #5

Orig. Comp. 6/57

TD = 4685' PBTD = 4631'

Page 2 of 2

1. Check location for anchors. Install if necessary. Test anchors.
2. MIRUSU. Blow down well. Kill if necessary with 2% KCL. NDWH. NUBOP.
3. POOH with 2" tbg. RIH with tbg and cement retainer. Set retainer at 4350'. Test casing integrity to 500#. Squeeze perms at 4404' to 4509' with ~~79~~ 50 25' cuft of cement. Pull out of retainer and spot ~~100~~ 125' of cement on top (This will bring cement 25' above the liner top). Spot 100' cement plug from ~~3400-3500~~ 3752-3652' (this will leave 160' rathole). *At a minimum* *(Top of ml)*
4. WOC. Circulate hole clean. POOH.
5. RU HES. Run GR/CCL/CBL from 3300' to surface. Contact Steve Webb in Denver with results to verify cement isolation of the CK.
6. Perforate CK at 3223', 3225', 3227', 3229', 3231', 3234', 3236', 3238' and 3240' using 1 JSPF select fire 4" HCP w/ 22.7 g charges (0.4" EHD, 20.22" penetration). Correlate CBL GR from step 5 to Schlumberger's GR/IEL dated 4/19/57.
7. TIH w/ 2" tubing x packer. Set packer at 3100'. Breakdown/ball off perforations using KCL and 7/8" 1.1 SG RCN balls. TOOH w/ tubing x packer.
8. Fracture stimulate CK according to frac procedure A. SI well for 4 hours. Flow well back through 1/4" choke for 8 hours. Then increase choke size to 1/2". Flow well back until cleans up.
9. TIH w/ 2" tubing and tag for fill. Clean out if necessary. Land tubing at 3225' with SN off bottom. ND BOP. NU wellhead. Flow back well. SI and RDMOSU. Leave well SI if approved for first delivery.

# Amoco Production Company

## ENGINEERING CHART

Sheet No

01

File

Appn

Date 12-29-94

By Gmk

SUBJECT

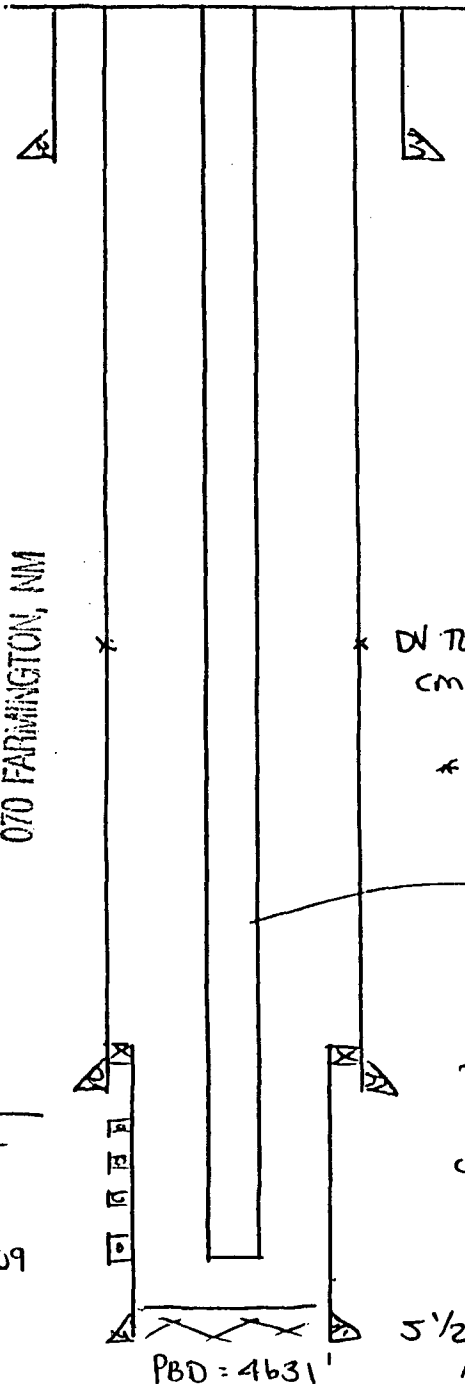
Michael A LS 5

RECEIVED  
BLM

95 AUG -8 PM 2:19

070 FARMINGTON, NM

PERFS  
4404 - 14  
4432 - 50  
4468 - 82  
4487 - 9509



10 3/4" CSA 172'  
32.75 # Amco SW.  
CMT w/175 SXS - Circulated

WBW Rev COMMENTS:  
most costly lease, EVAL  
FOR PER

\* DN Tool @ 2310'  
CMT: 75 SXS NEAT  
75 SXS POZ + 4% gel  
\* TOC @ 1710' By Temp Survey

2" TOG SA 4505'

7 5/8" CSA 4350'  
36.4 # JSS  
CMT 1ST STAGE: 50 SXS NEAT  
50 SXS POZ + 4% gel  
50 SXS NEAT

5 1/2" LSA 4274' - 4681'  
15.5 # JSS  
CMT w/ 50 SXS Regular  
50 SXS POZ + 2% gel  
TOC @ 4355 By Temp Survey

PBD = 4631'

**APPLICATION FOR APPROVAL OF UNORTHODOX LOCATION UNDER RULE 104-F**

**Michener A LS #5 Well**

**1090' FNL, 600' FEL**

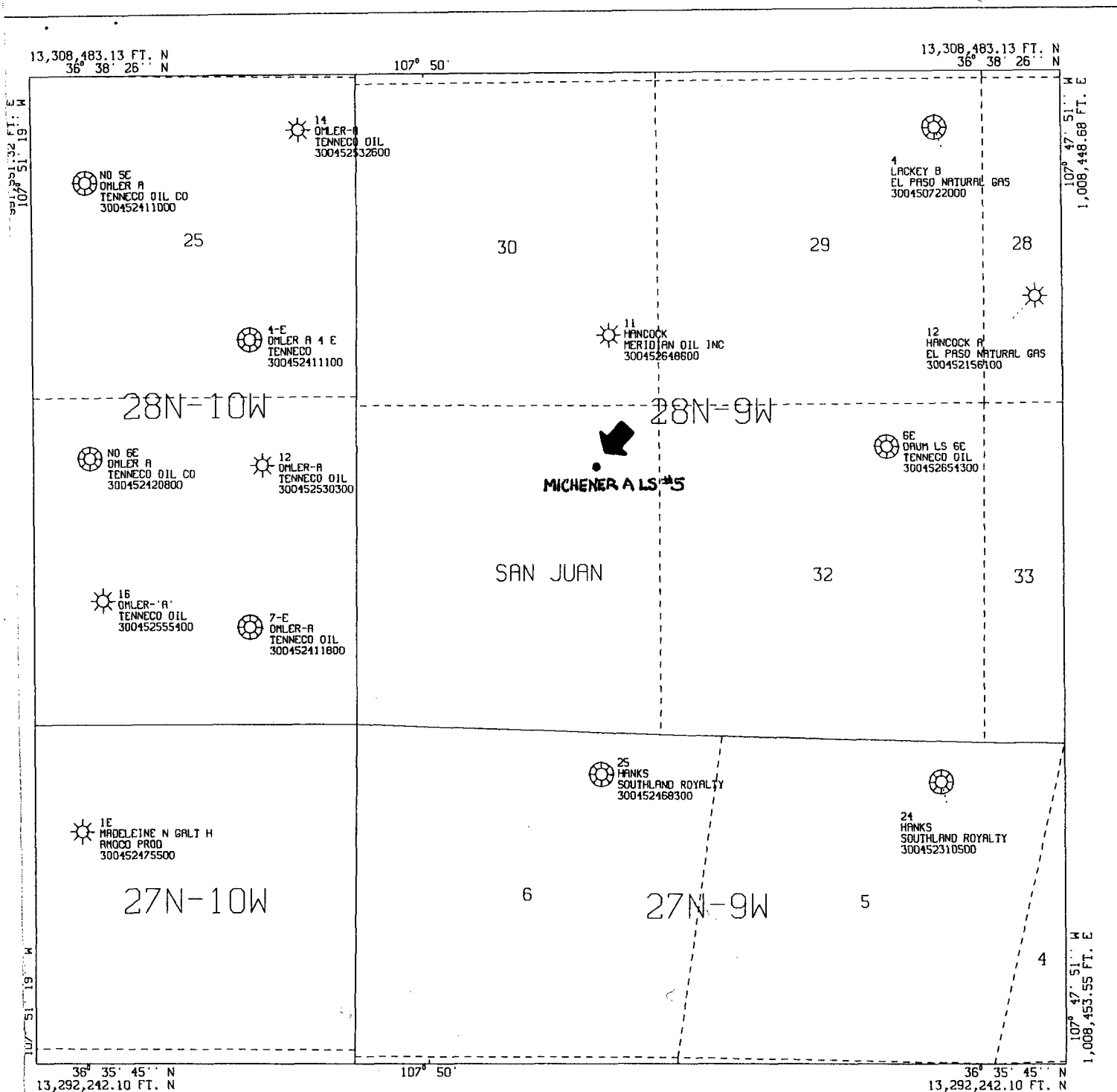
**Section 31-T28N-R9W**

**Otero Chacra Pool**

**ATTACHMENTS:**

- **9-SECTION PLAT SHOWING LOCATION OF ALL WELLS AND OFFSET OPERATORS**
- **FORM C-102 FOR OTERO CHACRA FORMATION**
- **ADMINISTRATIVE ORDER NSL - 87**
- **LIST OF ALL OFFSET OPERATORS AND THEIR ADDRESSES**





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 - 107° 49' 35" W LON  
SPHEROID - 6

AMOCO PRODUCTION COMPANY  
PLAT MAP  
MICHENER A LS #5  
CHACRA HORIZON  
SCALE 1 IN. = 2,000 FT. AUG 3, 1995

HORIZONTAL DATUM NAD27

GNJ13004--RUN#95215141645

District I  
PO Box 1980, Hobbs, NM 88241-1980  
District II  
PO Drawer DD, Artesia, NM 88211-0719  
District III  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV  
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico  
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION  
PO Box 2088  
Santa Fe, NM 87504-2088

Form C-102  
Revised February 21, 1997

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 APT Number 3004507059		1 Pool Code 72329		1 Pool Name Otero Chacra		
4 Property Code 000871		1 Property Name Michener A LS			1 Well Number #5	
1 OGRID No. 000778		1 Operator Name Amoco Production Company			1 Elevation 6059'	

10 Surface Location

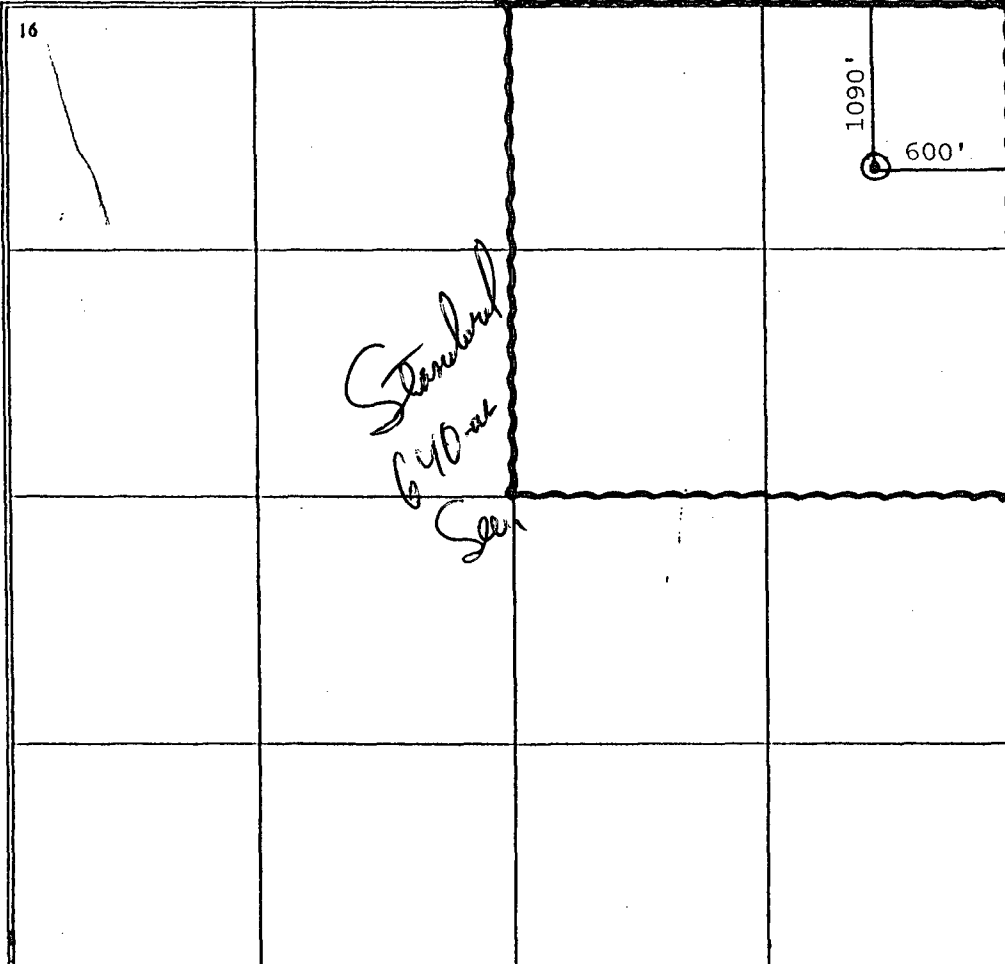
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	31	28N	9W		1090	North	600	East	San Juan

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

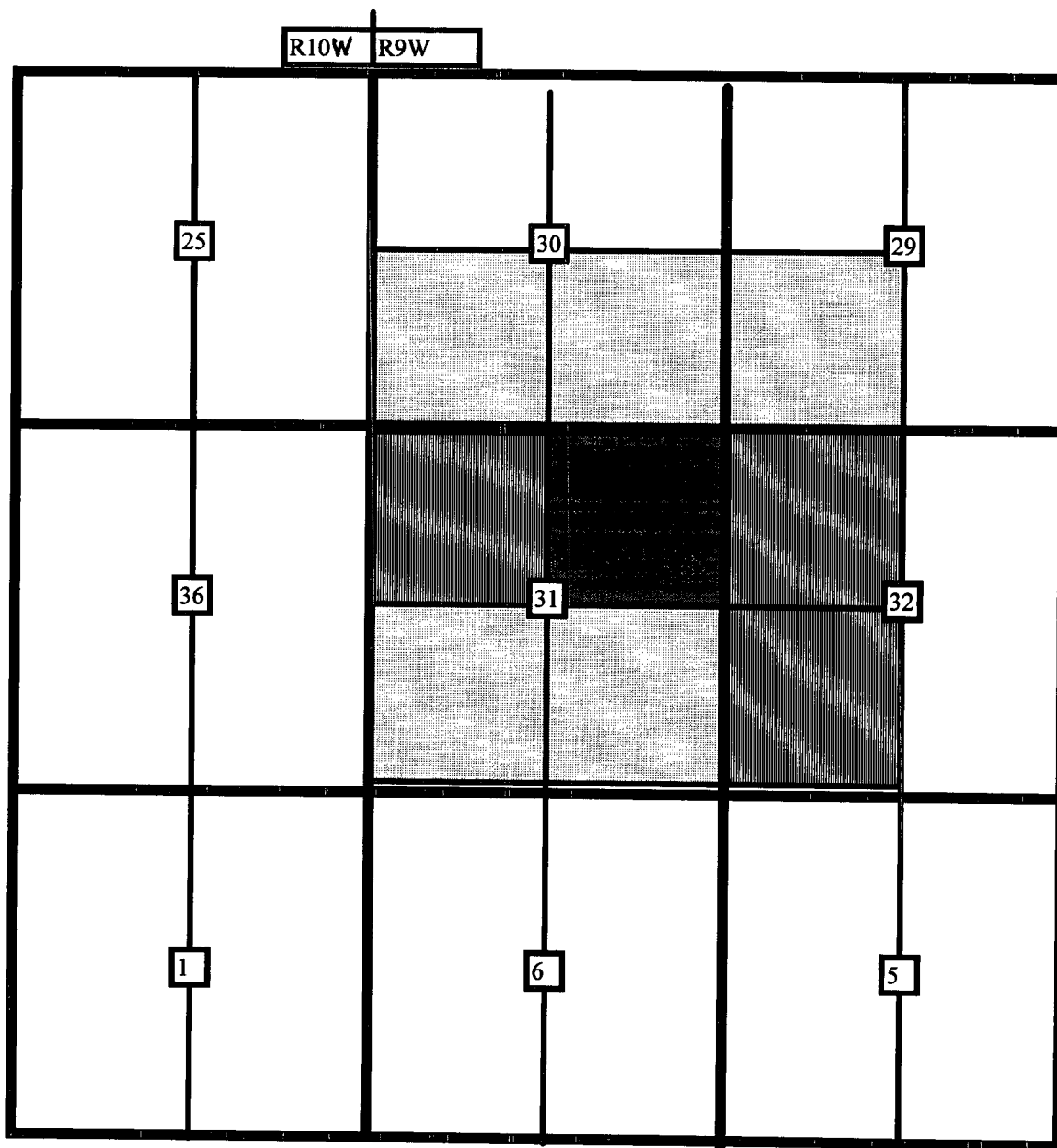
12 Dedicated Acres 160.00	13 Joint or Infill	14 Consolidation Code	15 Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16					<b>17 OPERATOR CERTIFICATION</b> I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  Signature <u>Gail M. Jefferson</u> Printed Name <u>Gail M. Jefferson</u> Title <u>Sr. Admin. Staff Asst.</u> Date <u>10/26/95</u>	
					<b>18 SURVEYOR CERTIFICATION</b> 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.  December 18, 1956 Date of Survey Signature and Seal of Professional Surveyor:  On File Certificate Number	

**AMOCO PRODUCTION COMPANY OFFSET OPERATOR PLAT**

**Michener A LS #5 Well  
1090' FNL, 600' FEL, Section 31-T28N-R9W  
Otero Chacra Pool**



**SPACING UNIT TO BE DOWNHOLE COMMINGLED**



**AMOCO PRODUCTION COMPANY**



**MERIDIAN OIL INC.**

LIST OF ADDRESSES FOR OFFSET OPERATORS

Michener A LS #5

*1* Meridian Oil, Inc.  
P.O. Box 4289  
Farmington, NM 87499

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