

DATE IN 6/23/97	SUSPENSE 7/14/97	ENGINEER DC	LOGGED BY [Signature]	TYPE DHC
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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

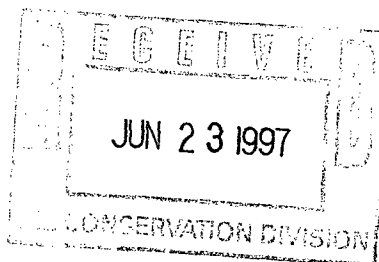
Check One Only for [B] and [C]

[B] Commingling - Storage - Measurement

☒ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[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

**[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.

Jerry W. Hoover  
Print or Type Name

[Signature]  
Signature

Sr. Conservation Coordinator  
Title

6/19/97  
Date

DISTRICT I  
P.O. Box 1980, Hobbs, NM 88241-1980

DISTRICT II  
811 South First St., Artesia, NM 88210-2835

DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410-1693

State of New Mexico  
Energy, Minerals and Natural Resources Department

**OIL CONSERVATION DIVISION**  
2040 S. Pacheco  
Santa Fe, New Mexico 87505-6429

Form C-107-A  
New 3-12-96

APPROVAL PROCESS:

☒ Administrative ☐ Hearing

EXISTING WELLBORE

☒ YES ☐ NO

**APPLICATION FOR DOWNHOLE COMMINGLING**

Operator Conoco Inc. Address 10 Desta Dr., Ste 100W, Midland, TX 79705-4500

Federal 21 Well No D-9-T27N-R8W San Juan San Juan County

Lease 21 Unit Ltr Sec Twp Rge D-9-T27N-R8W Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 005073 Property Code 003170 API NO. 30-045-24183 Federal ☒ State ☐ (and/or) Fee ☐

The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zone	Lower Zone
1. Pool Name and Pool Code	Fruitland Coal - 71629		<i>Chera</i> Chacra - 82329
2. TOP and Bottom of Pay Section (Perforations)	2784'-2868'		3864'-3994'
3. Type of production (Oil or Gas)	Gas		Gas
4. Method of Production (Flowing or Artificial Lift)	Flowing		Flowing
5. Bottom hole Pressure	a (Current)	a.	a.
Oil Zones - Artificial Lift: Estimated Current	624 psia		364 psia
Gas & Oil - Flowing: Measured Current	b (Original)	b.	b.
All Gas Zones: Estimated Or Measured Original	624 psia		1178 psia
6. Oil Gravity (°API) or Gas BTU Content	1160 BTU		1178 BTU
7. Producing or Shut-In?	To be completed		producing
Production Marginal? (yes or no)	Yes		Yes
• If Shut-In give date and oil/gas/water rates of last production	Date Rates Incremental Production by Subtraction --- See attached data	Date Rates	Date Rates
Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data.			
• If Producing, give date and oil/gas/water rates of recent test (within 60 days)	Date Rates	Date Rates	Date Rates Mid-Year Average producing rates --- See attached Table
8. Fixed Percentage Allocation Formula -% for each zone	oil: % Gas %	oil: % Gas %	oil: % Gas %

9. If allocation formula is based upon something other than current or past production, or is based upon some other method, submit attachments with supporting data and/or explaining method and providing rate projections or other required data.

10. Are all working, overriding, and royalty interests identical in all commingled zones? ☒ Yes ☐ No  
If not, have all working, overriding, and royalty interests been notified by certified mail? ☐ Yes ☐ No  
Have all offset operators been given written notice of the proposed downhole commingling? ☒ Yes ☐ No

11. Will cross-flow occur? ☒ Yes ☐ No If yes, are fluids compatible, will the formations not be damaged, will any cross-flowed production be recovered, and will the allocation formula be reliable. ☒ Yes ☐ No (If No, attach explanation)

12. Are all produced fluids from all commingled zones compatible with each others ☒ Yes ☐ No

13. Will the value of production be decreased by commingling? ☐ Yes ☒ No (If Yes, attach explanation)

14. If this well is on, or communitized with, state or federal lands, either the Commissioner of Public Lands or the United States Bureau of Land Management has been notified in writing of this application. ☒ Yes ☐ No

15. NMOCD Reference Cases for Rule 303(D) Exceptions: ORDER NO(S). \_\_\_\_\_

16. ATTACHMENTS

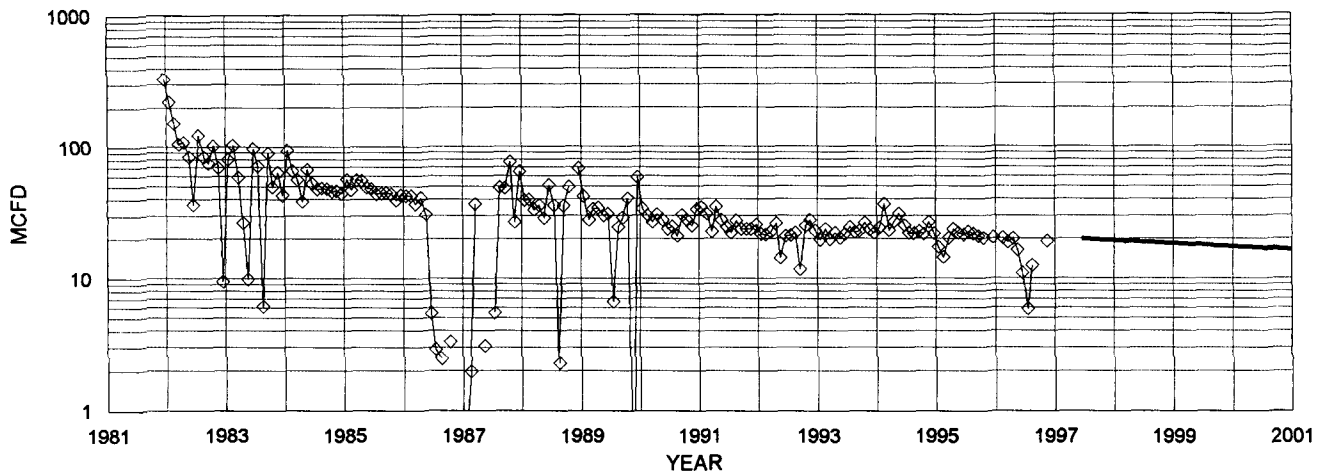
- \* C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
- \* Production curve for each zone for at least one year. (If not available, attach explanation.)
- \* For zones with no production history, estimated production rates and supporting data.
- \* Data to support allocation method or formula.
- \* Notification list of all offset operators.
- \* Notification list of working, overriding and royalty interests for uncommon interest cases.
- \* Any additional statements, data, or documents required to support commingling.

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

SIGNATURE *Jerry W. Hoover* TITLE Sr. Conservation Coord. DATE 6/19/97

TYPE OR PRINT NAME Jerry W. Hoover TELEPHONE NO. (915) 686-6548

**FEDERAL 21 CHACRA PRODUCTION**  
**SECTION 9D-27N-08W**



◇ CHACRA MCFD — FIT MCFD

<b>CHACRA HISTORICAL DATA:</b>		<b>1ST PROD: 11/81</b>	<b>CHACRA PROJECTED DATA</b>	
<b>OIL CUM:</b>	<b>0.00 MBO</b>		<b>6/1/87 QI:</b>	<b>20 MCFD</b>
<b>GAS CUM:</b>	<b>198.5 MMCF</b>		<b>DECLINE RATE:</b>	<b>5.2% (EXPONENTIAL)</b>
<b>CUM OIL YIELD</b>	<b>0.0000 BBL/MCF</b>			
<b>OIL YIELD:</b>	<b>0.0000 BBL/MCF, LAST 3 YRS</b>			
<b>AVG. USED:</b>	<b>0.0000 BBL/MCF</b>			

### PRODUCTION FORECAST FOR SUBTRACTION METHOD COMMINGLE ALLOCATION

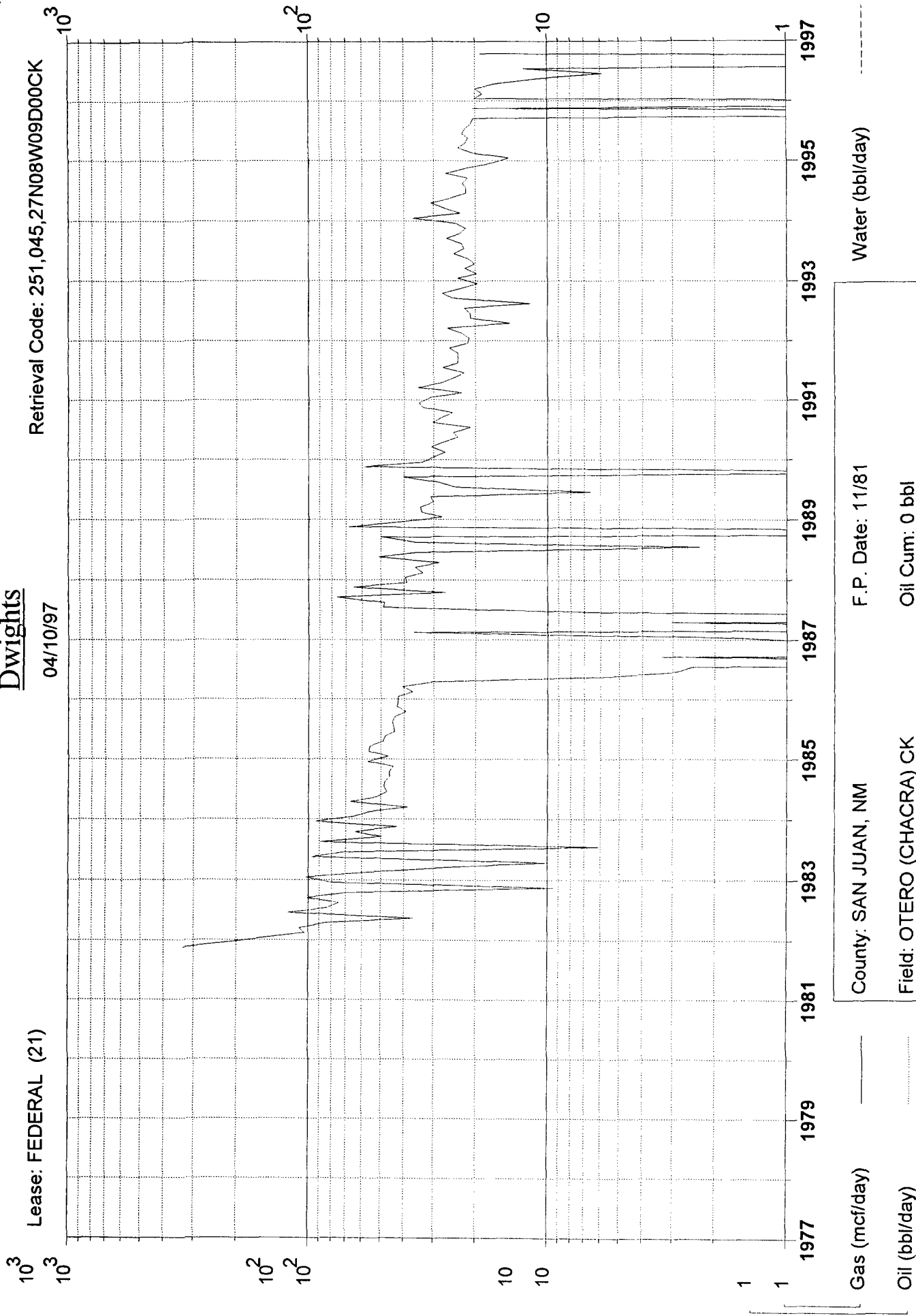
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# Dwights

Lease: FEDERAL (21)

Retrieval Code: 251,045,27N08W09D00CK

04/10/97



Gas (mcf/day)

Oil (bbl/day)

Water (bbl/day)

F.P. Date: 11/81

Oil Cum: 0 bbl

Gas Cum: 198.5 mmcf

Location: 9D 27N 8W

County: SAN JUAN, NM

Field: OTERO (CHACRA) CK

Reservoir: CHACRA

Operator: CONOCO INC

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT

**SANTA FE, NEW MEXICO 87501**

Form C-102  
Revised 10-1-78

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

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

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

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

315'

720'

SEC 9

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

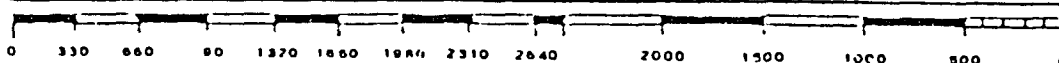
Date  
August 24, 1981

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.

November 21, 1979

Date Surveyed  
Fred B. Kerr Jr.  
Registered Professional Engineer  
and/or Land Surveyor

Certificate No.



# CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-107  
Revised 10-1-78

NEW MEXICO  
MINERALS DEPARTMENT

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

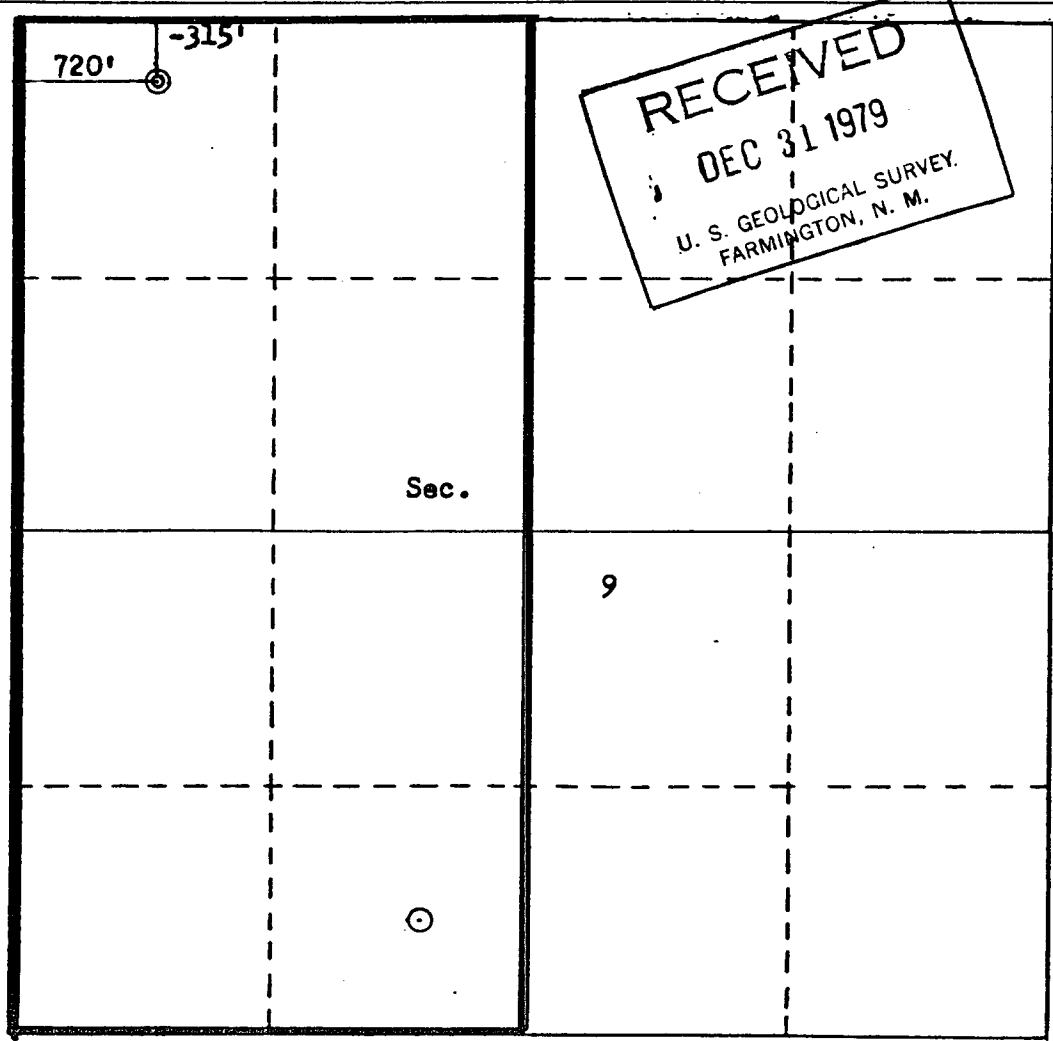
Operator <b>MESA PETROLEUM COMPANY</b>			Lease <b>FEDERAL</b>		Well No. <b>16-E</b>
Unit Letter <b>D</b>	Section <b>9</b>	Township <b>27N</b>	Range <b>8W</b>	County <b>San Juan</b>	
Actual Footage Location of Well: <b>315</b> feet from the <b>North</b> line and <b>720</b> feet from the <b>West</b> line					
Ground Level Elev. <b>6727</b>	Producing Formation <b>Dakota</b>		Pool <b>Basin Dakota</b>		Dedicated Acreage: <b>320</b> Acres

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

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

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

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



## CERTIFICATION

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

*John Alexander*  
Name  
**JOHN ALEXANDER**

Position  
**AGENT**

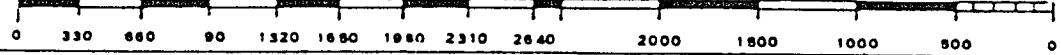
Company  
**MESA PETROLEUM**

Date  
**December 26, 1979**

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

**November 21, 1979**  
Registered Professional Engineer  
and/or Licensed Surveyor  
*Frederick B. Zerk Jr.*  
Certificate No. **3950**  
NEW MEXICO



FEDERAL #21

OFFSET OPERATORS

<u>Section 9</u>	E/2	Conoco Inc.
<u>Section 4</u>	S/2	Maralex
<u>Section 5</u>	SE/4	Burlington Resources
<u>Section 8</u>	E/2	Amoco Production
<u>Section 17</u>	NE/4	Amoco Production
<u>Section 16</u>	N/2	Burlington Resouces