



December 22, 1994

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

Southern

Rockies

Business

Unit

1-16-95  
1083

**Application for Exception to Rule 303-A**  
**Downhole Commingling**  
**Omler A #5 Well**  
**1850' FNL, 1760' FEL, Section 25-T28N-R10W**  
**Blanco Mesaverde, Basin Dakota Pools**  
**San Juan County, New Mexico**

Amoco Production Company hereby requests administrative approval to downhole commingle production from the Blanco Mesaverde and Basin Dakota Pools in the Omler A #5 well referenced above. Based on telephone conversation between Mr. Mike Kutas of Amoco and Mr. Ernie Busch of the NMOCD Aztec District Office, the well is approved for commingling testing period to assist in determining an allocation formula. The ownership (WI, RI ORRI) of these pools is identical in this wellbore. Production methods are limited due to the 4 1/2" casing in the well. Downhole commingling will offer an economical method of production while protecting against reservoir damage, waste of reserve and violation of correlative rights. A copy of this application will be sent to the offset operators and the BLM (Fed. Ls. SF-077085).

Sincerely,

J. W. Hawkins

Enclosures

cc: Mike Kutas

Frank Chavez, Supervisor  
Amoco District III  
1000 Rio Brazos Road  
Aztec, NM 87410

Meridian Oil Inc./  
Southland Royalty  
P.O. Box 4289  
Farmington, NM 87499

Duane Spencer  
Bureau of Land Management  
1235 La Plata Hwy  
Farmington, NM 87401

Jerry Hoover  
Conoco Inc.  
10 Desta Dr., Ste. 100W  
Midland, TX 79705-4500

## Application for Exception to Rule 303: SEGREGATION OF PRODUCTION FROM POOLS

### Requirements

- (1) Name and address of the operator:

Amoco Production Company  
P.O. Box 800  
Denver, CO 80201

- (2) Lease name, well number, well location, name of the pools to be commingled:

Lease Name: Omler A  
Well Number: 5  
Well Location: 1850' FNL & 1760' FEL  
Section 25, T28N-R10W  
San Juan County, New Mexico  
Pools Commingled: Blanco Mesaverde  
Basin Dakota

- (3) A plat of the area showing the acreage dedicated to the well and the ownership of all offsetting leases.

### Attached

- (4) A current (within 30 days) 24-hour productivity test on Division Form C-116 showing the amount of oil, gas and water produced from each zone.

The Dakota has produced for over 20 years and is currently averaging about 70 mcf/d. The Mesaverde is completed separately as a dual, but has not been produced.

- (5) A production decline curve for both zones showing that for a period of at least one year a steady rate of decline has been established for each zone which will permit a reasonable allocation of the commingled production to each zone for statistical purposes. (This requirement may be dispensed within the case of a newly completed or recently completed well which has little or no production history. However, a complete resume of the well's completion history including description of treating, testing, etc., of each zone, and a prognostication of future production from each zone shall be permitted.)

Dakota Completion: Historical production curve attached.

Mesaverde Completion: The well was completed in 1965 but never first delivered. The well was completed with a sliding sleeve to accommodate downhole commingling. However when the sleeve was opened recently, the well would not flow.

- (6) Estimated bottomhole pressure for each artificially lifted zone. A current (within 30 days) measured bottom hole pressure for each zone capable of flowing.

	BH Pressure	SI Tubing Press.	Fluid Level
Mesaverde Completion:	642 psi	310 psi	0
Basin Dakota Completion	892 psi	485 psi	0'

- (7) A description of the fluid characteristics of each zone showing that the fluids will not be incompatible in the wellbore.

The fluids have no abnormal components that would prohibit commingling, or promote the creation of emulsions or scale.

- (8) A computation showing that the value of the commingled production will not be less than the sum of the values of the individual streams:

Since the BTU content of the produced fluids are very similar, we would expect the commingled production to have the same value as the sum of the individual streams.

- (9) A formula for the allocation of production to each of the commingled zones and a description of the factors or data used in determining such formula:

The well is undergoing additional testing to aid in determination of the allocation factor. We propose a fixed percentage allocation using the recent average Dakota rate as a percentage of the commingled rate.

- (10) A statement that all offset operators and, in the case of a well on federal land, the United States Bureau of Land Management, have been notified in writing of the proposed commingling.

All offsetting operators and the BLM will receive a copy of this application by certified mail. The offsetting operators are:

Meridian Oil Inc., P.O. Box 4289, Farmington, NM 87499  
Southland Royalty, P.O. Box 4289, Farmington, NM 87499  
Conoco Inc., 10 Desta Dr. Ste. 100W, Midland TX 79705

## Well Location and Acreage Dedication Plat

Section A.

Date 7-22-65

Operator TENNECO OIL COMPANY Lease Omler "A"  
 Well No. Omler A5 Unit Letter G Section 25 Township 28 North Range 10 West NMPM  
 Located 1850 Feet From North Line, 1760 Feet From East Line  
 County San Juan G. L. Elevation 5873' ungraded Dedicated Acreage 320 Acres  
 Name of Producing Formation Dakota Pool Dakota

1. Is the Operator the only owner in the dedicated acreage outlined on the plat below?  
 Yes \_\_\_\_\_ No \_\_\_\_\_
2. If the answer to question one is "no", have the interests of all the owners been consolidated by communization agreement or otherwise? Yes \_\_\_\_\_ No \_\_\_\_\_. If answer is "yes", Type of Consolidation.
3. If the answer to question two is "no", list all the owners and their respective interests below:

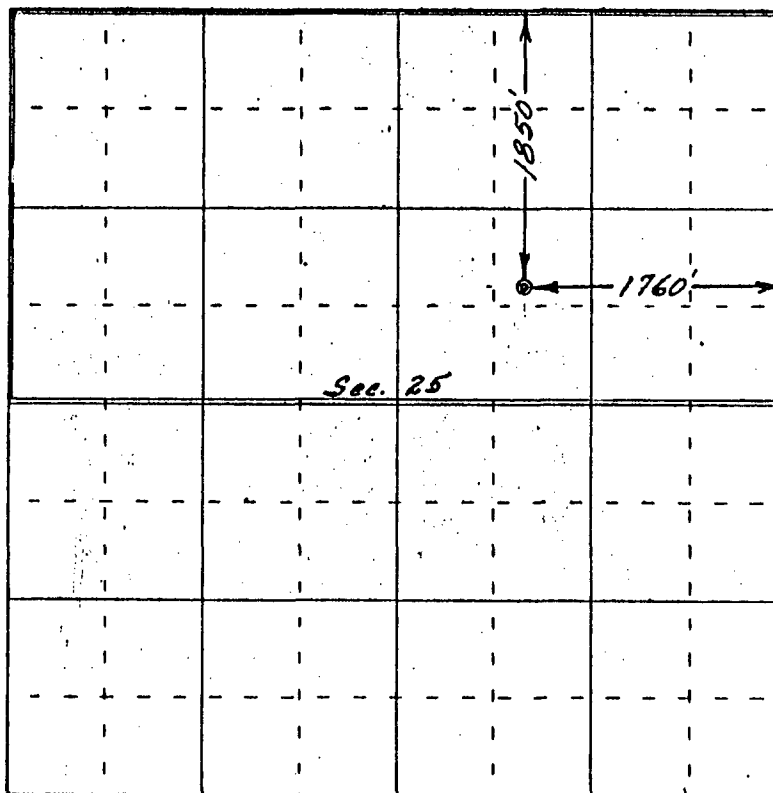
OwnerLand Description

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.

Tenneco Oil Co.Original Signed (Operator)HAROLD C. NICHOLS(Representative)Box 1714(Address)Durango,Colorado

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



0 320 640 960 1280 1600 1920 2240 2560 2880 3200 3520 3840 4160 4480 4800 5120 5440 5760 6080 6400

Scale 4 inches equal 1 mile

ADMN 55558

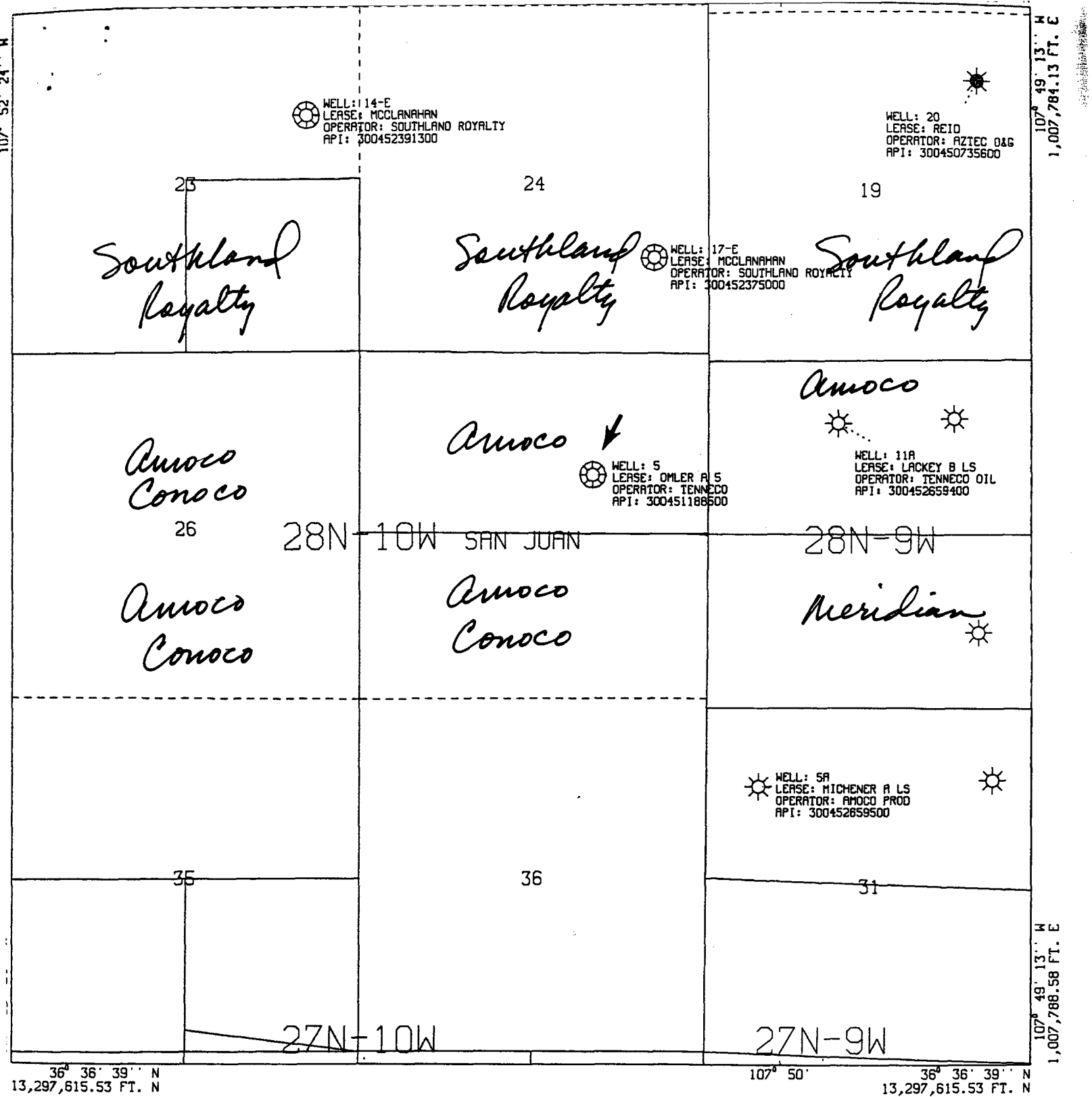
This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.

Date Surveyed 23 April 1965

Registered Professional Engineer and/or Land Surveyor

(Seal)

ERNST ENGINEERING CO



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COPY

AMOCO PRODUCTION COMPANY  
PLAT MAP

OMLER A 5  
WITH MV OFFSETS

SCALE 1 IN. = 2,000 FT. DEC 13, 1994

POLYCONIC CENTRAL MERIDIAN - 107° 50' 48" W LONG  
SPHEROID - 6

UW-941317092906

992,215.87 FT. E  
107° 52' 24" W

WELL: 14  
LEASE: MCCLANAHAN-D  
OPERATOR: AZTEC O&G  
API: 300451306800

WELL: 14-E  
LEASE: MCCLANAHAN  
OPERATOR: SOUTHLAND ROYALTY  
API: 300452391300

WELL: 17  
LEASE: MCCLANAHAN-D  
OPERATOR: AZTEC O&G  
API: 300450737300

WELL: 20  
LEASE: REID  
OPERATOR: AZTEC O&G  
API: 300450735600

*Southland Royalty*

WELL: 16  
LEASE: MCCLANAHAN-D  
OPERATOR: AZTEC O&G  
API: 300450729800

24  
*Southland Royalty*

WELL: 21  
LEASE: REID-D  
OPERATOR: AZTEC O&G  
API: 300450730100

*Southland Royalty*

WELL: 2-E  
LEASE: MCCLANAHAN A 2 E  
OPERATOR: UNION TEXAS PET  
API: 300452588500

*Amoco*

WELL: 1-E  
LEASE: OMLER-A  
OPERATOR: TENNECO OIL  
API: 300452420700

WELL: 1  
LEASE: OMLER-A  
OPERATOR: TENNECO OIL  
API: 300451190600

WELL: 5  
LEASE: OMLER A 5  
OPERATOR: TENNECO  
API: 300452411000

WELL: 5  
LEASE: OMLER A 5  
OPERATOR: TENNECO  
API: 300451186500

28N-10W SAN JUAN

*Amoco*

28N-9W

*Amoco*

WELL: 3  
LEASE: OMLER-A  
OPERATOR: TENNECO OIL  
API: 300450711200

WELL: NO 3E  
LEASE: OMLER A  
OPERATOR: TENNECO OIL CO  
API: 300452408000

WELL: 4  
LEASE: OMLER A  
OPERATOR: TENNECO OIL  
API: 300451216800

WELL: 4-E  
LEASE: OMLER A 4 E  
OPERATOR: TENNECO  
API: 300452411100

WELL: 7  
LEASE: HANCOCK  
OPERATOR: EL PASO NATURAL GAS  
API: 300450714000

*Meridian*

WELL: NO 2E  
LEASE: OMLER A  
OPERATOR: TENNECO OIL CO  
API: 300452411600

WELL: 2  
LEASE: OMLER A 2  
OPERATOR: TENNECO OIL  
API: 300451168000

WELL: 6  
LEASE: OMLER A 6  
OPERATOR: TENNECO  
API: 300451188900

WELL: NO 6 E  
LEASE: MICHENER A  
OPERATOR: EL PASO NATURAL GAS CO  
API: 300452388000

35

36

31

WELL: 1  
LEASE: COLE-A  
OPERATOR: TENNECO OIL  
API: 300451190700

WELL: 1-E  
LEASE: COLE-A  
OPERATOR: TENNECO OIL  
API: 300452411700

WELL: 7  
LEASE: OMLER A 7  
OPERATOR: TENNECO OIL  
API: 300451215500

WELL: 7-E  
LEASE: OMLER-A  
OPERATOR: TENNECO OIL  
API: 300452411800

27N-10W

27N-9W

36° 36' 39" N  
13,297,615.53 FT. N

107° 50' 36° 36' 39" N  
13,297,615.53 FT. N

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AMOCO PRODUCTION COMPANY  
PLAT MAP

POLYCONIC CENTRAL MERIDIAN - 107° 50' 48" W LON  
SPHEROID - 6

OMLER A 5  
WITH DK OFFSETS  
SCALE 1 IN. = 2,000 FT. OCT 21, 1994

DUAL COMPLETION

OMLER "A" NO. 5

LOCATION: 1850 ENL & 1760 FEL, SEC. 25,  
T2BN, R10W,  
SAN JUAN CO., N.M.

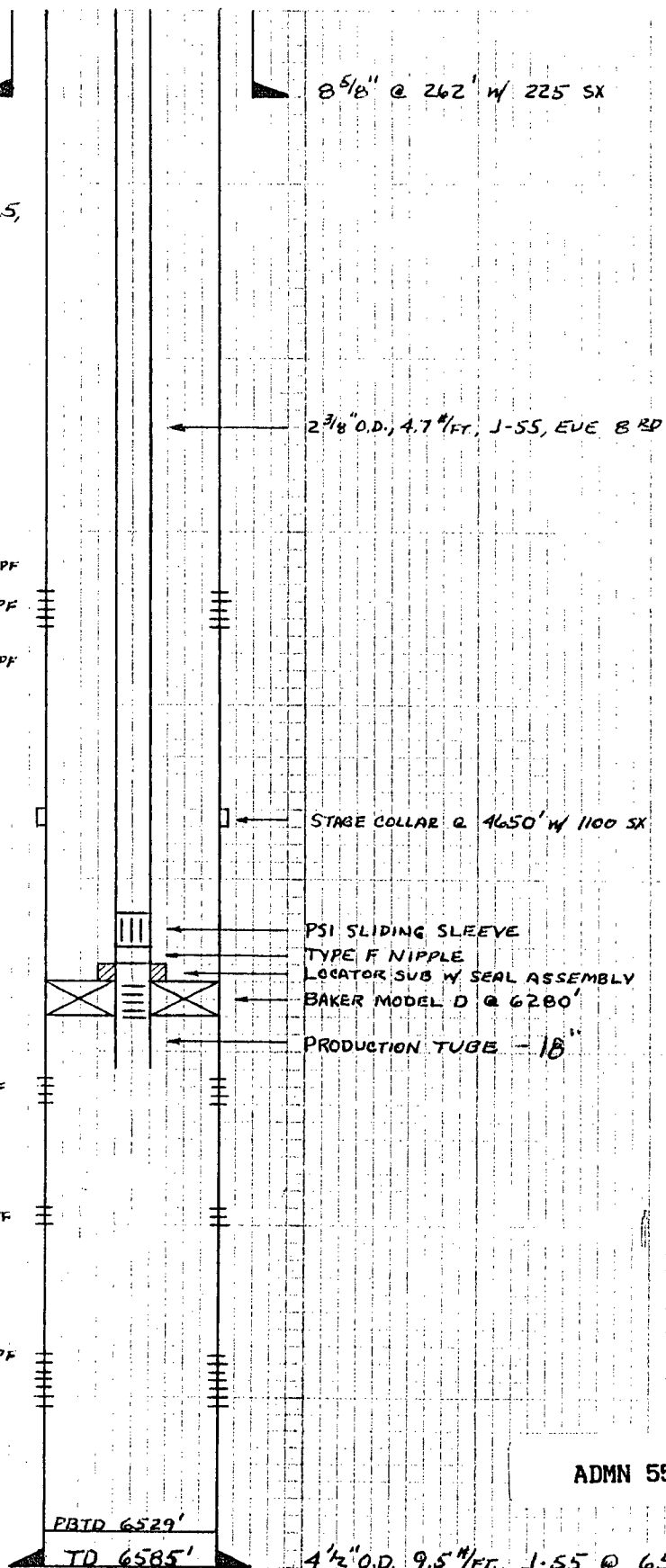
ELEVATION: ~~5868~~ 5868 G.L.  
5878 D.F.

MESA VERDE PERFS

4284-88	2 HPF
4295-97	
4306-08	1 HPF
4310-16	
4328-32	2 HPF
4334-36	

DAKOTA PERFS

6348-49	
6361-62	1 HPF
6363-64	
6364-65	
6413-15	
6418-24	2 HPF
6426-30	
6451-59	
6474-78	2 HPF
6487-89	
6497-99	
6514-16	
6518-22	



ADMN 55568

4 1/2" O.D. 9.5" W J-55 @ 6585'  
W 200 SX CLASS C

DCW  
11-10-65

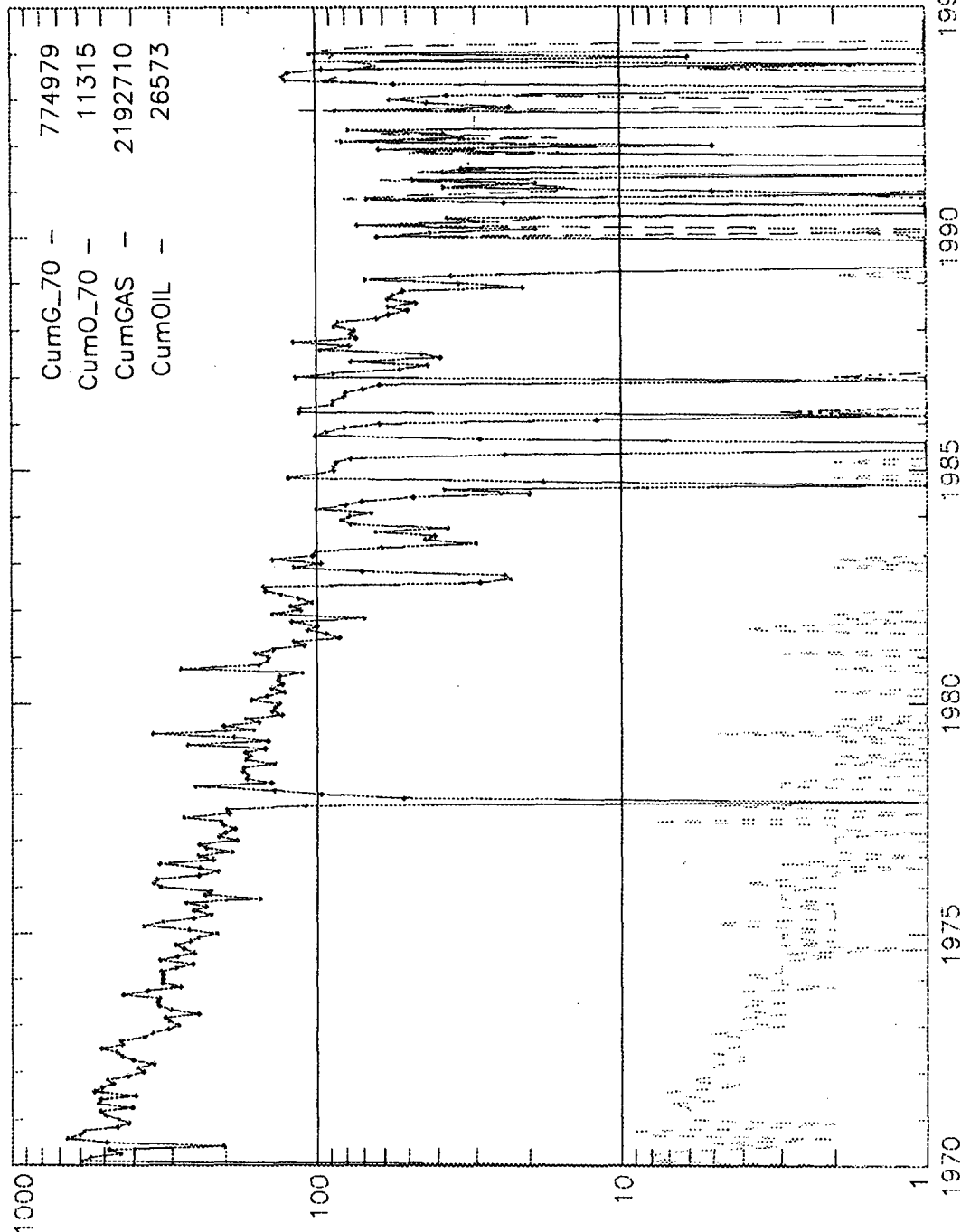
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OMLER A 5

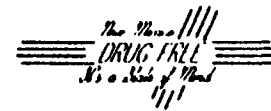
Operator- AMOCO PRODUCTION CO

300451188500DK G252810-005 DK

APC\_WI - 0.50000000







STATE OF NEW MEXICO

ENERGY, MINERALS and NATURAL RESOURCES DIVISION

OIL CONSERVATION DIVISION  
AZTEC DISTRICT OFFICE

BRUCE KING  
GOVERNOR

ANITA LOCKWOOD  
CABINET SECRETARY

95 JAN 20 AM 8 52

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

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

DHC-1083

Oil Conservation Division  
P.O. Box 2088  
Santa Fe, NM 87504-2088

RE: Proposed MC \_\_\_\_\_  
Proposed NSL \_\_\_\_\_  
Proposed WFX \_\_\_\_\_  
Proposed NSP \_\_\_\_\_

Proposed DHC α \_\_\_\_\_  
Proposed SWD \_\_\_\_\_  
Proposed PMX \_\_\_\_\_  
Proposed DD \_\_\_\_\_

Gentlemen:

I have examined the application received on 12/27/94

for the Amoco Operator A #5  
OPERATOR LEASE & WELL NO.

G- 25-28N-10W and my recommendations are as follows:  
UL-S-T-R

Approved  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Yours truly,

[Signature]