

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

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



ADMINISTRATIVE ORDER DHC-1126

Amoco Production Company
P.O. Box 800
Denver, Colorado 80201-0800

Attention: Pamela W. Stanley

RECEIVED
MAY - 2 1995

OIL CON. DIV.
DIST. 3

L.C. Kelly Well No.4E
Unit D, Section 3, Township 30 North, Range 12 West, NMPM,
San Juan County, New Mexico.
Blanco Mesaverde (Prorated Gas), Basin Dakota (Prorated Gas)
and Flora Vista-Gallup Pools

Dear Ms. Stanley:

Reference is made to your recent application for an exception to Rule 303-A of the Division Rules and Regulations to permit the subject well to commingle production from both pools in the wellbore.

It appearing that the subject well qualifies for approval for such exception pursuant to the provisions of Rule 303-C, and that reservoir damage or waste will not result from such downhole commingling, and correlative rights will not be violated thereby, you are hereby authorized to commingle the production as described above and any Division Order which authorized the dual completion and required separation of the two zones is hereby placed in abeyance.

In accordance with the provisions of Rule 303-C-4., total commingled oil production from the subject well shall not exceed 50 barrels per day, and total water production shall not exceed 100 barrels per day. The maximum amount of gas which may be produced daily from the well shall be determined by Division Rules and Regulations or by the gas allowable for each respective prorated pool as printed in the Division's San Juan Basin Gas Proration Schedule.

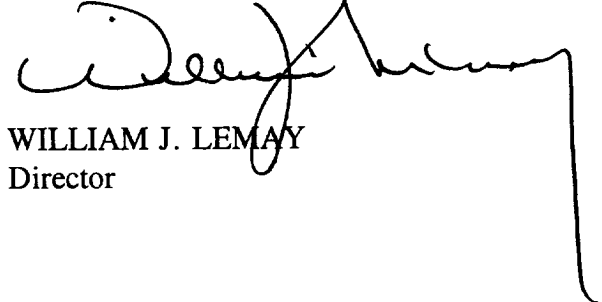
In accordance with the provisions of Rule 303-C, the supervisor of the Aztec District Office of the Oil Conservation Division shall determine the proper allocation of production from the subject well following its completion.

FURTHER: The operator shall notify the Aztec District Office of the Division upon implementation of the commingling process.

Pursuant to Rule 303-C-5, the commingling authority granted by the order may be rescinded by the Division Director if, in his opinion, conservation is not being best served by such commingling.

Approved at Santa Fe, New Mexico on this 28th day of April, 1995.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION



WILLIAM J. LEMAY
Director

S E A L

WJL/DRC

cc: Oil Conservation Division - Aztec ✓

Ernie Busch

From: Ernie Busch
To: David Catanach
Cc: Ben Stone
Subject: AMOCO (DHC) JIC C #3
Date: Friday, June 09, 1995 11:10AM
Priority: High

JICARILLA C #3
I-23-26N-05W
RECOMMEND: APPROVAL



FUNCTIONS of STATE LAND OFFICE

ROYALTY RETURN PROCESSING

Lease Royalty Editing and Matching-Royalty Returns
Audit and Compliance of Royalty Returns
Product Valuation Monitoring

LAND LEASE MANAGEMENT

Statewide Land System
Lease Management
Units and Communitizations Management

LAND OFFICE ACCOUNTING

Cash Management
Billings and Payments
Cash Distribution

ONGARD
SYSTEM



Southern

Rockies

Business

Unit

May 18, 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 Exception to Rule 303-A
Downhole Commingling
Jicarilla "C" Well #3
1650' FSL & 990' FEL, Unit I Section 23-T26N-R5W
Basin Dakota and Tapacito Gallup Pools
Rio Arriba County, New Mexico

RECEIVED
MAY 22 1995

OIL CON. DIV.
DIST. 3

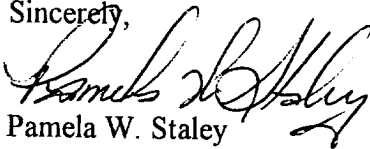
Amoco Production Company hereby requests administrative approval to downhole commingle production from the Basin Dakota and Undesignated Gallup Pools in the Jicarilla "C" Well #3 referenced above. The Jicarilla "C" Well #3 was originally a dual completion in the Dakota and Gallup formations. This well has a marginal Gallup formation which is being produced dually with the Dakota which if left as a dual completion, the marginal zone would be shut-in in the near future. We plan to complete the well with both the Dakota and Gallup formations being downhole commingled in the wellbore. The two zones are expected to produce at a total commingled rate of about 235 MCFD with 5 BOPD. The ownership (WI, RI) of these pools is identical in this wellbore. Downhole commingling will offer an economical method of production while protecting against reservoir damage, waste of reserves and violation of correlative rights. Offset operators to this well will receive a copy of this application by certified mail.

The allocation method that we plan to use for this commingled well is as follows. Since these formations have been producing for some time, we have a good historical representation of the production by formation. Based on historical production we recommend that the allocation for gas production be 74% from the Dakota formation and 26% from the Gallup formation. Liquid production in this well has been restricted due to liquid loading problems occurring in these pressure depleted gas reservoirs. The downhole commingling and subsequent addition of a plunger lift system should increase the capability of the marginal formations to again produce condensate. Based on that premise, we propose to allocate 80% of the liquid production to the Dakota formation and 20% of the liquid production to the Gallup formation. The actual commercial value of the commingled production will not be less than the sum of the values of the production from each of the common sources of supply.

Attached to aid in your review are plats showing the location of the well and offset wells in the same formations, a historical production plot and a C-102 for each formation. This spacing unit is on a federal lease and a copy of the application will be sent to the BLM requesting their consent.

Should you have questions concerning this matter, please contact me at (303) 830-5344.

Sincerely,



Pamela W. Staley

Enclosures

cc: Steve Smethie
Patty Haeefe

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

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

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: Jicarilla "C" Well #3

Well Location: 1650' FSL & 990' FEL
Unit I Section 23-T26N-R5W
Rio Arriba County, New Mexico

Pools Commingled: Tapacito Gallup Pool
Basin Dakota Pool

- (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 Basin Dakota produced an average stabilized rate of 114 MCFD and 0.9 BCPD. The Tapacito Gallup zone produced at an average rate of about 14 MCFD and 0 BCPD.

- (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.

Tapacito Gallup Completion:

Historical production curve attached.

Basin Dakota Completion:

Historical production curve attached.

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

Bottom hole pressures were estimated from 24 hour bottom hole shut-in pressures in the Gallup and Dakota formations in the Jicarilla field. Estimated bottom hole pressure in the Gallup and the Dakota formations is 900 PSI.

BLM will receive a copy of this application by certified mail. The offsetting operators listed on the attached sheet will receive a copy of this application by certified mail.

(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.

The allocation method that we plan to use for this commingled well is as follows. Since these formations have been producing for some time, we have a good historical representation of the production by formation. Based on historical production we recommend that the allocation for gas production be 74% from the Dakota formation and 26% from the Gallup formation. Liquid production in this well has been restricted due to liquid loading problems occurring in these pressure depleted gas reservoirs. The downhole commingling and subsequent addition of a plunger lift system should increase the capability of the marginal formations to again produce condensate. Based on that premise, we propose to allocate 80% of the liquid production to the Dakota formation and 20% of the liquid production to the Gallup formation. The actual commercial value of the commingled production will not be less than the sum of the values of the production from each of the common sources of supply.

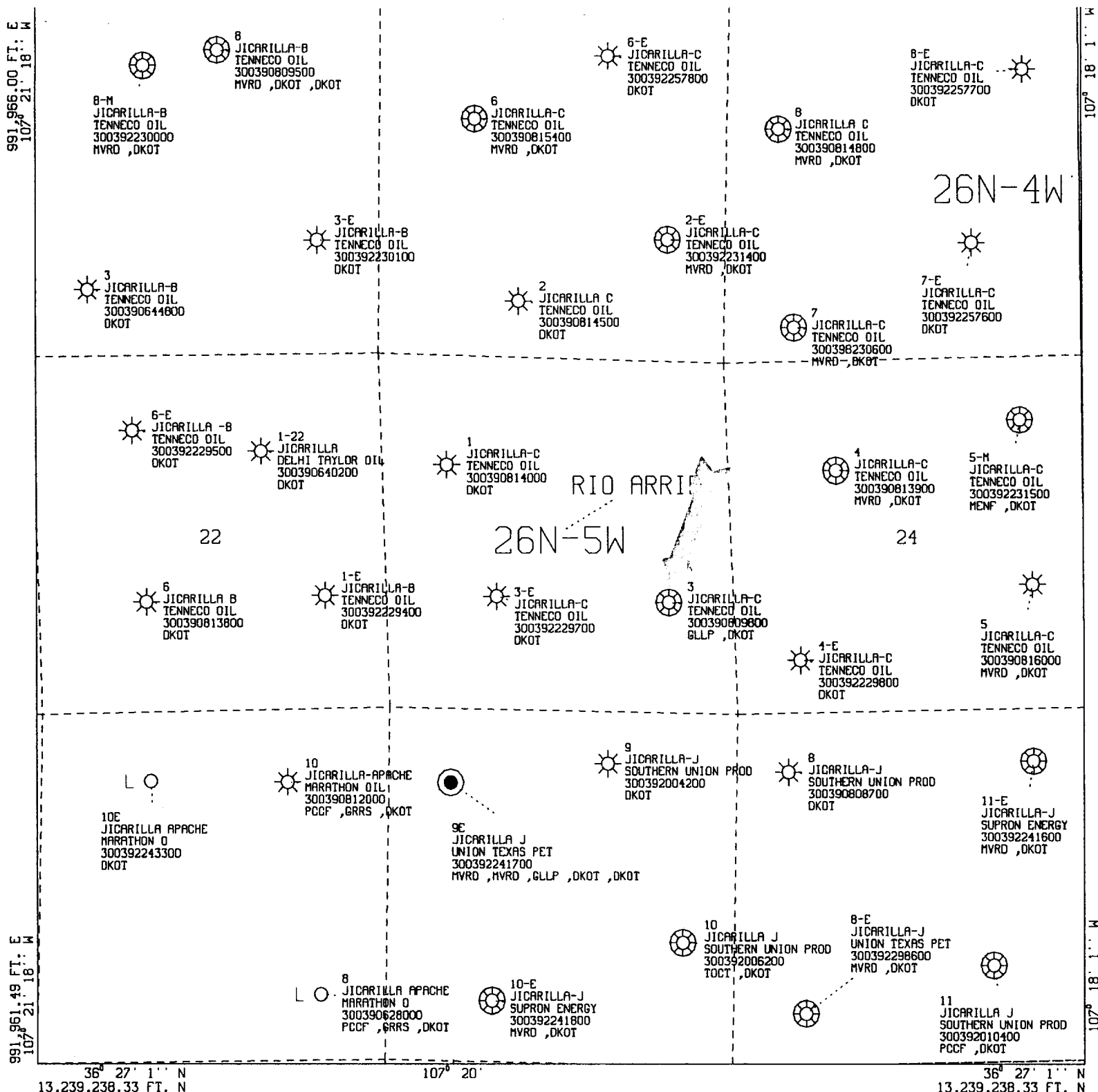
(9) A formula for the allocation of production to each of the commingled zones and a description of the factors or data used in determining such formula:

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.

(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:

The fluids have no abnormal components that would prohibit commingling, or promote the creation of emulsions or scale. Amoco has applied for and received several downhole commingling orders in this area including wells in which these two formations have been successfully downhole commingled with no apparent incompatibility in the commingled fluids.

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



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.

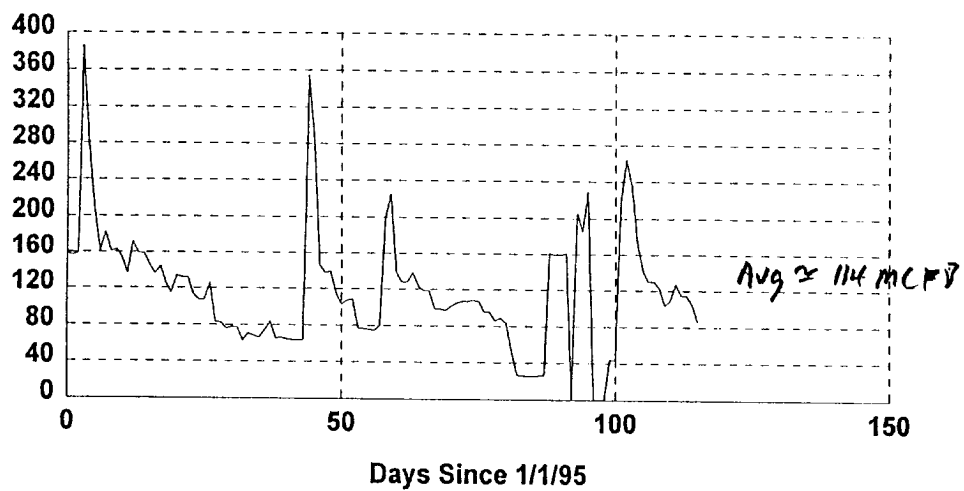
POLYCONIC CENTRAL MERIDIAN - 107° 19' 39" W LON
SPHEROID - 6

AMOCO PRODUCTION COMPANY
PLAT MAP
Jicarilla C 3
Dakota

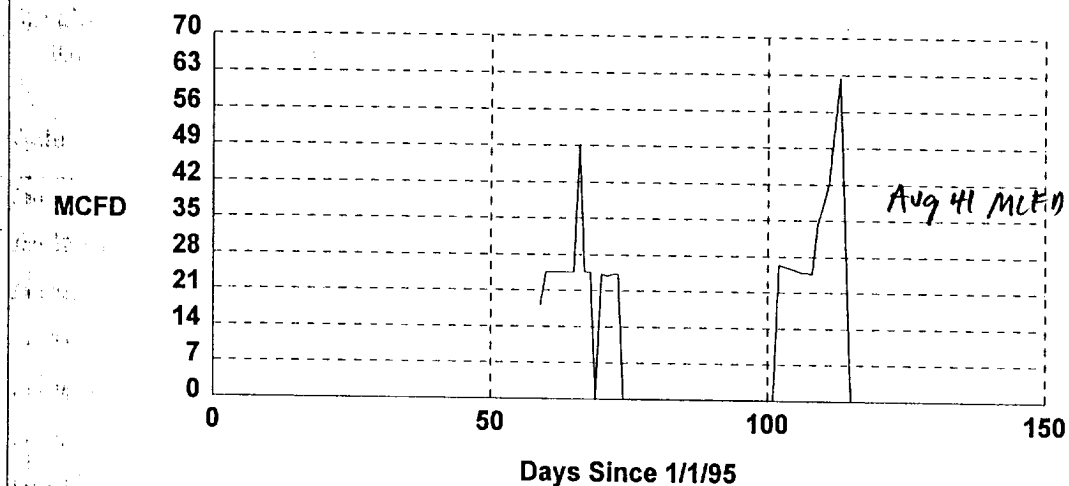
SCALE 1 IN. = 2,000 FT MAY 11, 1995

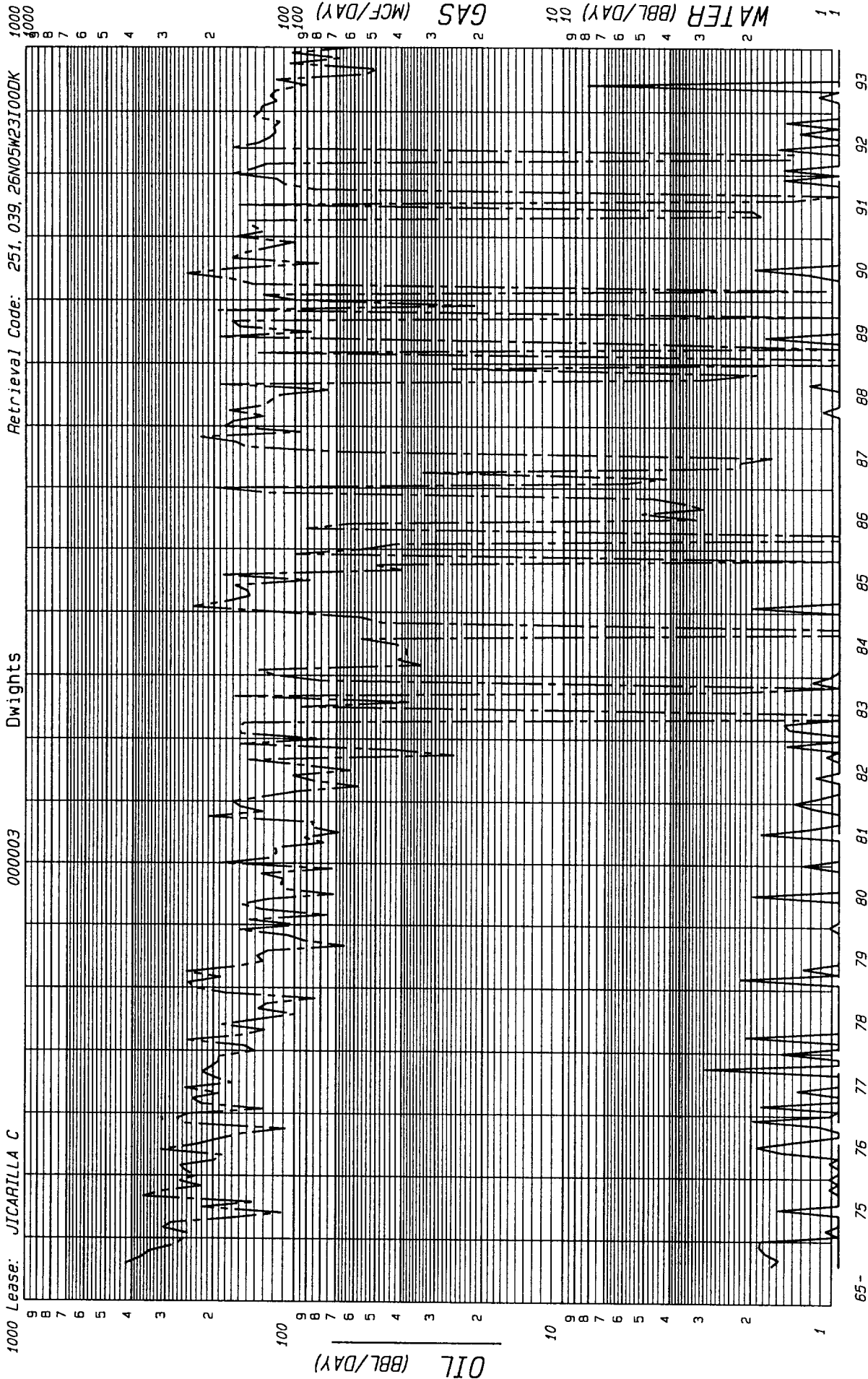
San Juan O.C.
WELL: JICARILLA C 003-DK (97818301)
(Downtime excluded) DAKOTA

MCFD



San Juan O.C.
WELL: JICARILLA C 003-DG (97818302)
(Downtime excluded) ⁰⁷CALLUP





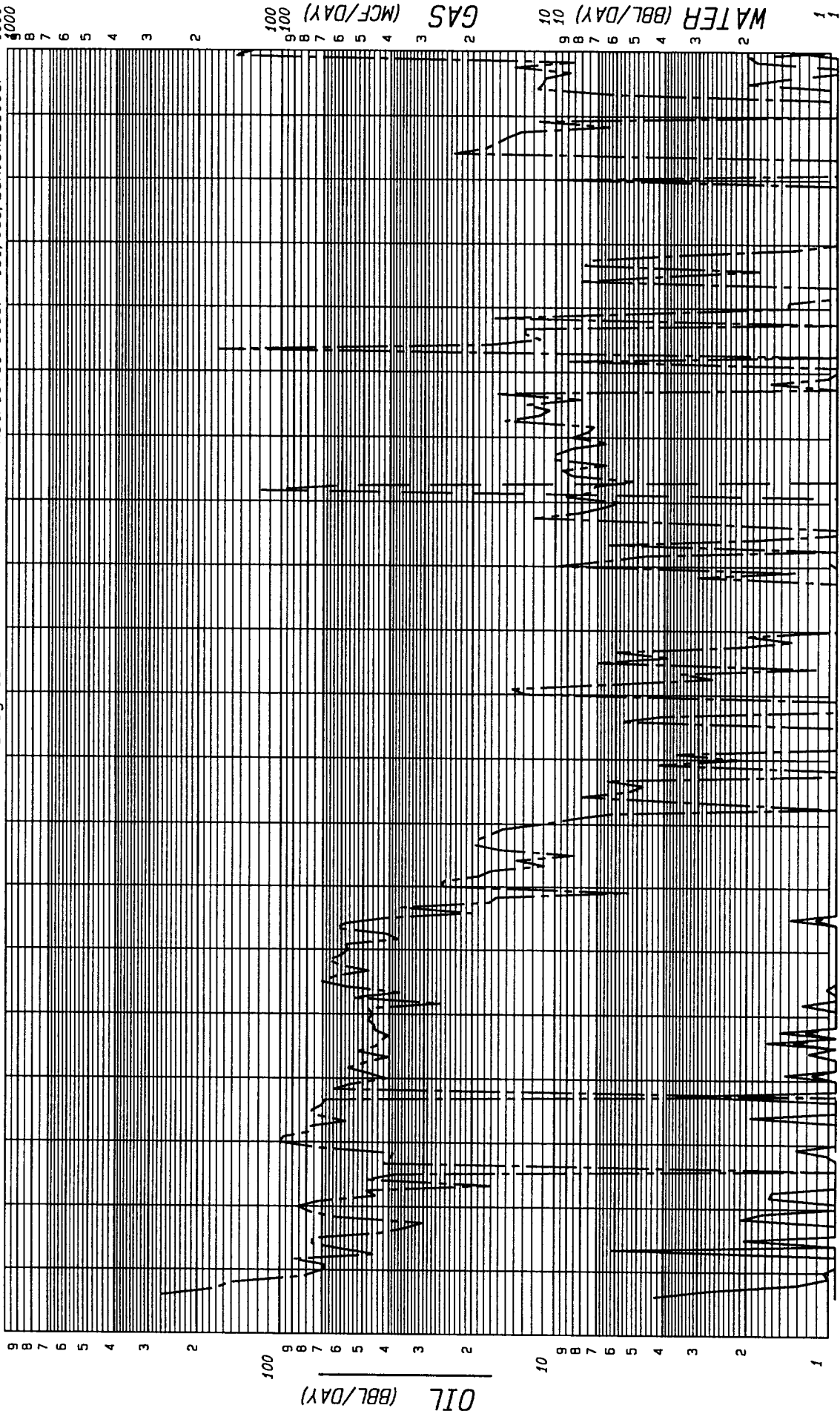
County: RIO ARriba
 Field: BASIN (DAKOTA) DK
 Reservoir: DAKOTA
 Operator: AMOCO PRODUCTION CO
 Oil Cum: 12922
 Gas Cum: 2090741
 Location: 23I 26N 5W

State: NM

F.P. Date 03-67

Date: 05-12-95

1000 Lease: JICARILLA C 000003 Dwights Retrieval Code: 151, 039, 26N05W23T00GP



County: RIO ARriba State: NM
Field: TAPACITO (GALLUP) GP
Reservoir: GALLUP
Operator: AMOCO PRODUCTION CO
Oil Cum: 11524 Gas Cum: 875436
Location: 231 26N 5W

Date: 05-12-95

F.P. Date

NEW MEXICO OIL CONSERVATION COMMISSION

WELL LOCATION AND ACERAGE DEDICATION PLAT

All distances must be from the outer boundaries of the Section

Operator TENNECO OIL COMPANY			Lease JICARILLA		Well No. C-3
Unit Letter I	Section 23	Township 26N	Range 5W	County Rio Arriba	
Actual Footage Location of Well: 1650 feet from the south line and 990 feet from the east line					
Ground Level Elev. 6574 ungraded		Producing Formation TAPACITO	Pool TAPACITO	Dedicated Acreage: S/2 320 Acres	
Gallup & Basin Dakota Undesig. Gallup & Basin Dakota Undesig.					

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- 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 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.

Harold C. Nichols
Name

Harold C. Nichols
Position

Senior Production Clerk
Company

Tenneco Oil Company
Date

June 7, 1966

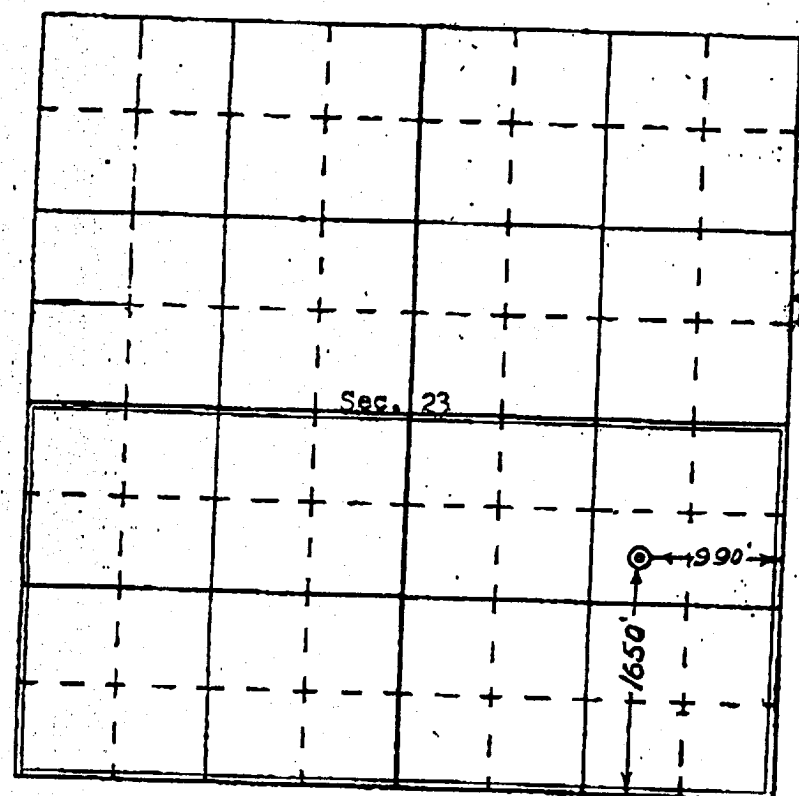
RECEIVED
JUN 10 1966
CON. COM.
ST. 3

I hereby certify that this well location plat was plotted from field notes of 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 _____
Registered Professional Engineer
and/or Land Surveyor

Robert H. Ernst
N. Mex. P.E. & L.S. 2463
Certificate No.



LIST OF ADDRESSES FOR OFFSET OPERATORS
Jicarilla "C" Well #3

- 1 Marathon Oil Co.
P.O. Box 552
Midland, TX 79702
- 2 Meridian Oil In.
P.O. Box 4289
Farmington, NM 87499-4289