

ARCO Oil and Gas Company
Central District
Post Office Box 1610
Midland, Texas 79702
Telephone 915 688 5200



January 18, 1988

Mr. David Catanach
New Mexico Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

Set for Hearing
Code 9339

Re: Application for Administrative Approval to Down Hole Commingle
Schlosser WN Federal 1R-1850' FNL, 790' FWL, Sec 10-T27N-R11W and
Schlosser WN Federal 2R-1835' FSL, 1720' FWL, Sec 3-T27N-R11W
San Juan County, New Mexico

Dear Mr. Catanach:

ARCO Oil and Gas Company hereby requests exception to Rule 303-A as provided for in Rule 303-C to permit wellbore commingling of gas production from the Dakota formation (Basin Dakota Gas Pool) with oil production from the Gallup formation (Kutz Gallup Oil Pool) in the above referenced wells. Data pertinent to downhole commingling as required in Rule 303-C is discussed below.

The subject wells are currently completed in the Dakota formation. The #1R is producing from perforations at 6615'-6662' and the #2R is producing from the intervals 6605'-6646' and 6648'-6654'. ARCO proposes to recomple these wells to the Gallup formation and commingle production from both zones in the wellbore. Proposed Gallup perforations in the #1R consist of selected intervals from 5788'-5980'. The #2R Gallup perforations will be similar intervals from 5802'-6044'. Rule 303-C sets limits on the maximum oil production rate which is eligible for commingling under an administrative order. Based on the depth of the proposed bottom perforation in the oil pool (5980' in the #1R, 6044' in the #2R), this limiting rate would equal 30 BOPD for the #1R and 40 BOPD for the #2R. Projected rates for the proposed Gallup recompletions are uncertain due to various factors. Offset Gallup producers were completed in the late 1950's to early 1960's. Completion technology was not as fully developed at this time and the current reservoir pressure may be considerably lower than the initial value. If the oil rates achieved after recompletion to the Gallup are in excess of the allowable rates for commingling under Rule 303-C, commingling would not occur until the rates declined to allowable values or until an order granting permission is obtained through a commission hearing.

Although there is a chance that the Gallup may flow naturally, it is more likely that artificial lift will be required. If this is the case, the commingled production would be artificially lifted using either a plunger lift system or by rod pumping. Neither zone to be

Mr. David Catanach
January 18, 1988
Page two

commingled is expected to produce more water than the oil limit discussed above. It is anticipated that the fluids from each zone will be compatible and that the combination of these fluids will not result in the formation of precipitates which might damage the reservoirs. The total value of the crude will not be reduced by commingling nor is it expected that the efficiency of present or future secondary recovery operations will be jeopardized.

The bottom-hole pressure of the Dakota in this area is estimated at approximately 1000 psi. The anticipated Gallup reservoir pressure is less certain but may be in the range of 1500-2000 psi. Based on these estimates, the bottom-hole pressure of the lower pressured zone would be greater than 50% of the bottom-hole pressure of the higher pressured zone as required by Rule 303-C. However, to insure that there would be no crossflow of Gallup oil to the Dakota formation, ARCO plans to install an assembly between the Gallup and Dakota formations consisting of a retrievable packer, pup joint, and left-hand release on-off tool with a downhole check valve in place in the profile of the on-off tool. This will allow Dakota gas to enter the wellbore once the Gallup is pumped off but will prevent fluid flow from above the packer into the Dakota formation below.

Attached is a plat of the area showing the acreage dedicated to the wells and the offsetting lease operators, a current 24-hour productivity test on Division Form C-116 and production curves for the Dakota zone in each well, and a gas analysis of produced Dakota gas from each well. This data is not available for the Gallup zone since the subject wells have not yet been recompleted.

As required in Rule 303-C, the ownership of the Gallup and Dakota formations is common. Also, the offset operators listed below as well as the U.S. Geological Survey have been notified in writing concurrent with the mailing of this application.

R&G Drilling Company
c/o Walsh Engineering & Production Corp.
P. O. Drawer 419
Farmington, New Mexico 87499

Meridian Oil Inc.
P. O. Box 4289
Farmington, New Mexico 87499

*Costs to dualy
- complete well -
1R - 186,000
2R - 223,000*

Mr. David Catanach
January 18, 1988
Page three

Marathon Oil Company
P. O. Box 552
Midland, Texas 79702

Chevron USA, Inc.
P. O. Box 670
Hobbs, New Mexico 88240
Attn: G. C. Hollingsworth


Tenneco Oil Company
P. O. Box 3249
Englewood, Colorado 80155

BHP Petroleum (Americas), Inc.
5613 DTC Parkway
Suite 600
Englewood, Colorado 80111

U. S. Geological Survey
Geologic Division
P. O. Box 25046
Denver, Colorado 80225

ARCO Oil and Gas Company respectfully requests approval of this application to commingle. If questions should arise, please contact Mark McWherter at (915) 688-5231.

Sincerely,

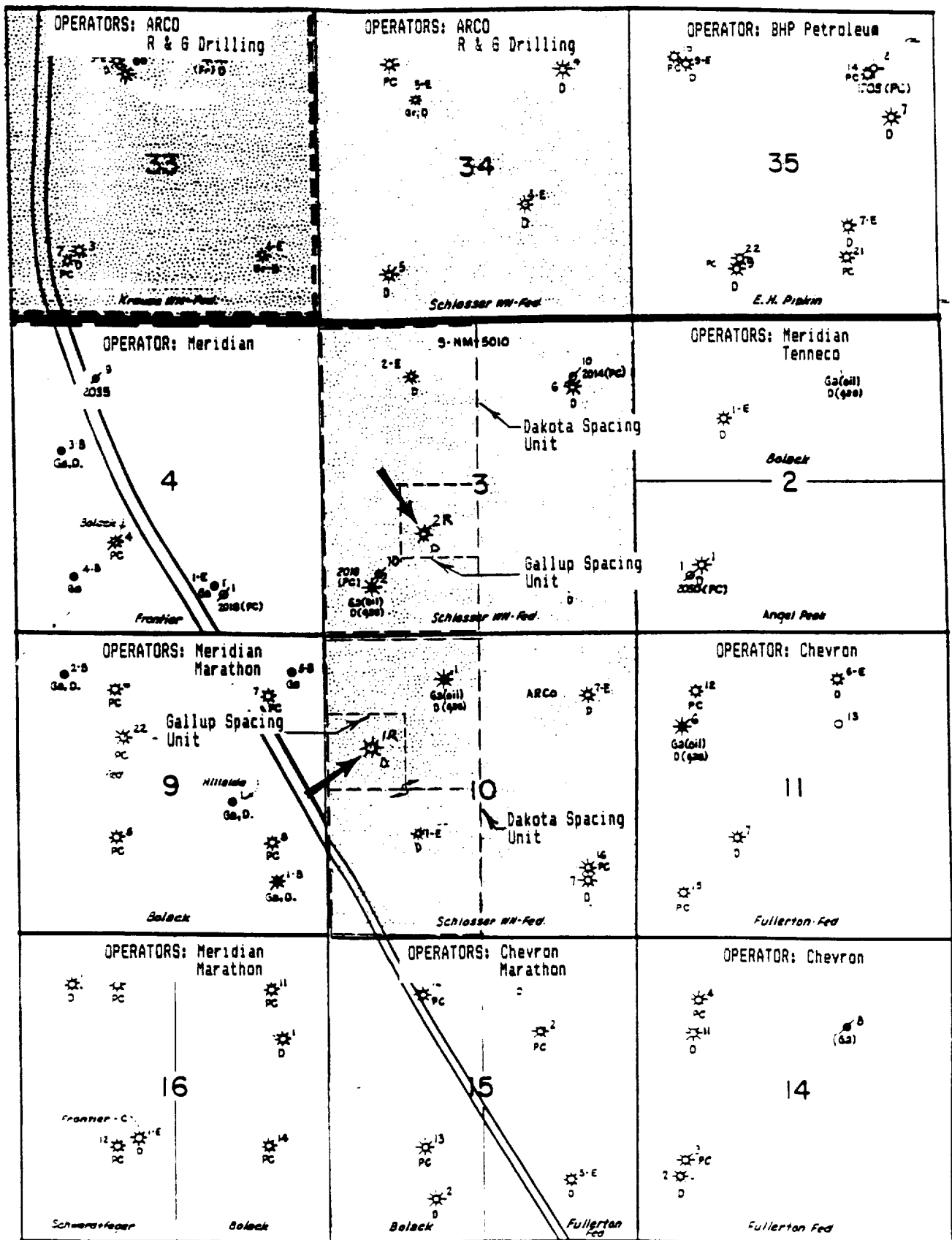


J. M. McCarthy
District Production Superintendent

JMM/MDM:la1

cc: Mr. Ernie Busch
New Mexico Oil Conservation Division
1000 Rio Brazos Road
Aztec, New Mexico 87410

GR
1/21/88



ARCO Oil and Gas Company

Proposed Wellbore Commingling
Schlosser WN Federal 1R & 2R
Sections 3 & 10, T27N-R11W
San Juan County, New Mexico

NEW MEXICO OIL CONSERVATION COMMISSION
GAS-OIL RATIO TESTS

C-116
Revised 1-1-65

Oil & Gas Company, Division of Atlantic Richfield Company		Pool Basin Dakota		County San Juan		TYPE OF TEST - IXI		Completion <input type="checkbox"/>		Special <input checked="" type="checkbox"/>										
1816 E. Moiave, Farmington, NM 87401		WELL NO.		LOCATION		DATE OF TEST		CHOKE SIZE		TBG. PRESS.		DAILY ALLOWABLE		COST OF TEST		PROD. DURING TEST		GAS - OIL RATIO		
LEASE NAME		U	S	T	R									WATER BBL.	GRAV. OIL	OIL BBL.	GAS MCF.	CU.FT./BBL		
Schlosser	2R	K	3	27N	11W			F		Adj		297				0	702	1	216	216,000

No well will be assigned an allowable greater than the amount of oil produced on the official test.

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top well allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowable when authorized by the Commission.

Gas volumes must be reported in MCF measured at a pressure base of 14.735 psia and a temperature of 60° F. Specific gravity base will be 0.66.

Report casing pressure in lieu of tubing pressure for any well producing through casing.

Mail original and one copy of this report to the district office of the New Mexico Oil Conservation Commission in accordance with Rule 363 and appropriate good rules.

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

Bobby H. Hefner
(Signature)

Engr. Tech.

1/14/88
(Date)

**NEW MEXICO OIL CONSERVATION COMMISSION
GAS-OIL RATIO TESTS**

C-114
Revised 1-1-83

Oil & Gas Company, Division of Atlantic Richfield Company		Pool Basin Dakota		County San Juan											
1816 E. Nojave, Farmington, NM 87401		TYPE OF TEST - (X)		Completion <input type="checkbox"/> Scheduled <input type="checkbox"/> Special <input checked="" type="checkbox"/>											
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOW. ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU.FT./BBL.		
		U	S	T						R	WATER BBL.S.	GRAV. OIL		OIL BBL.S.	GAS M.C.F.
Schlosser	1R	E	10	27N	11W	F	Adj	301		24	0	702	1	164	164,000

No well will be assigned an allowable greater than the amount of oil produced on the offset test.

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top well allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowable when authorized by the Commission.

Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F. Specific gravity base will be 0.60.

Report casing pressure in lieu of tubing pressure for any well producing through casing.

Mail original and one copy of this report to the district office of the New Mexico Oil Conservation Commission in accordance with Rule 341 and appropriate good rules.

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

Billy L. Beckman
(Signature)

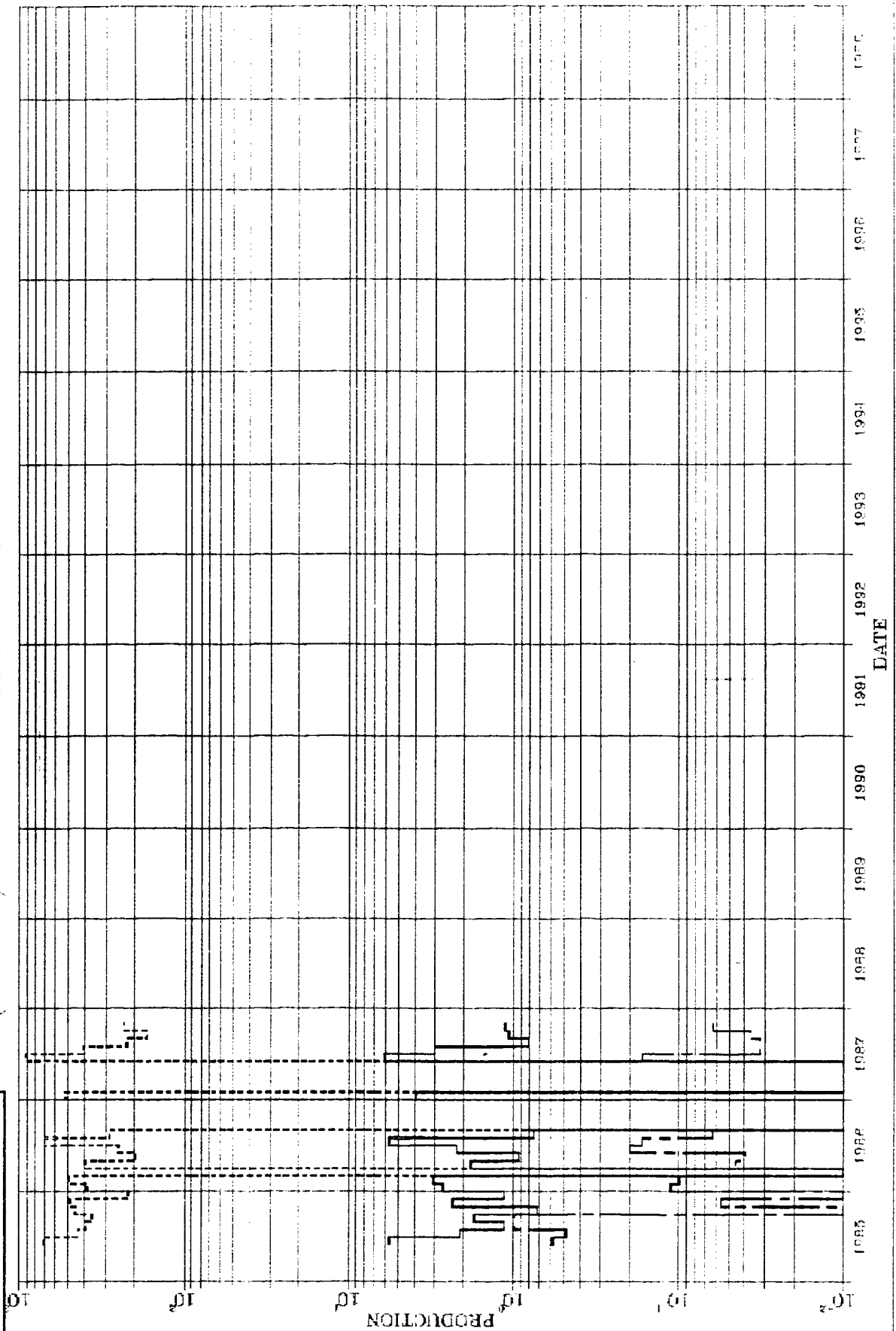
Engr. Tech.

1/14/88

(Title)

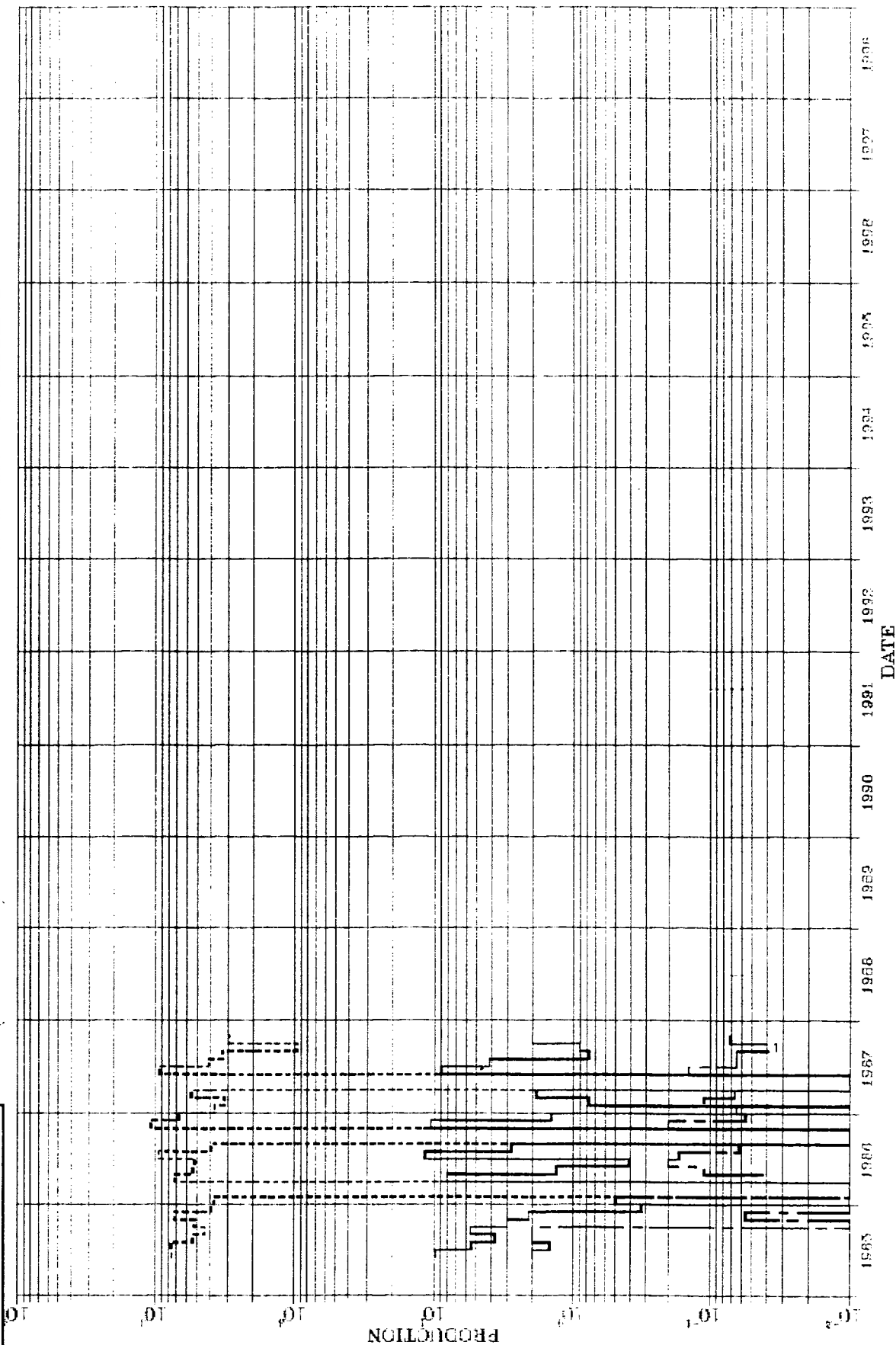
STATE: NEW MEXICO COUNTY: SAN JUAN
FIELD: BASIN DAKOTA
LEASE: FEDERAL, SCHLOSSER WN,TRK WELL# 1R
(DAKOTA) OPERATOR: ARCO OIL AND GAS COMPANY

OIL PRODUCTION STB/D
GAS PRODUCTION MCF/D
WATER PRODUCTION BBL/D



STATE: NEW MEXICO COUNTY: SAN JUAN
 FIELD: BASIN DAKOTA
 LEASE: FEDERAL, SCHLOSSER WN, TRK WELL# 2R
 (DAKOTA) OPERATOR: ARCO OIL AND GAS COMPANY

OIL PRODUCTION, STBO/D
 GAS PRODUCTION, MCF/D
 WATER PRODUCTION, CY/D



ARCO Oil and Gas Company
Downhole Commingling Application
Schlosser WN Federal #1R and #2R
San Juan County, New Mexico

Gas Analyses

	<u>Schlosser #1R</u>	<u>Schlosser #2R</u>
Sample Date	1-6-87	1-7-87
Meter Station	95261	95267
<u>Component</u>	<u>Normal Mol %</u>	<u>Normal Mol %</u>
CO ₂	.98	.96
N ₂	.88	.85
Methane	83.95	80.10
Ethane	9.73	11.07
Propane	2.85	4.26
Iso-butane	.42	.72
Normal-butane	.56	1.02
Iso-pentane	.22	.36
Normal-pentane	.15	.26
Hexane plus	.26	.40
	100.00	100.00
Specific Gravity	.672	.712
Mixture Heating Value (BTU/CF @ 14.73 psig, 60°F, Dry)	1158	1121

ARCO Oil and Gas Company
Central District
Post Office Box 1610
Midland, Texas 79702
Telephone 915 688 5200



January 18, 1988

U. S. Geological Survey
Geologic Division
P. O. Box 25046
Denver, Colorado 80225

Re: Request for Waiver of Objection; Downhole Commingling
Schlosser WN Federal 1R, NW/4 Sec. 10-T27N-R11W, San Juan Co., NM
Schlosser WN Federal 2R, SW/4 Sec. 3-T27N-R11W, San Juan Co., NM

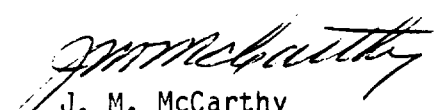
Gentlemen:

The purpose of this letter is to notify you that ARCO Oil and Gas Company has applied to the New Mexico Oil Conservation Division pursuant to Rule 303-C to downhole commingle production from the Gallup and Dakota formations in the above referenced wells. If you have no objection to the proposed commingling, please sign the waiver at the bottom of this page and forward to:

Mr. David Catanach
New Mexico Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

We would appreciate your returning one copy to the undersigned. If questions should arise, please contact Mark McWherter at (915) 688-5231.

Sincerely,


J. M. McCarthy
District Production Superintendent

JMM/MDM:1a1

cc: ✓ Mr. David Catanach
NMOCD
P. O. Box 2088
Santa Fe, New Mexico 87501

Mr. Ernie Busch
NMOCD
1000 Rio Brazos Road
Aztec, New Mexico 87410

WAIVER

U. S. Geological Survey hereby waives objection to ARCO's application to commingle as set forth above.

By: _____ Date: _____

ARCO Oil and Gas Company
Central District
Post Office Box 1610
Midland, Texas 79702
Telephone 915 688 5200



January 18, 1988

BHP Petroleum (Americas), Inc.
5613 DTC Parkway
Suite 600
Englewood, Colorado 80111

Re: Request for Waiver of Objection; Downhole Commingling
Schlosser WN Federal 1R, NW/4 Sec. 10-T27N-R11W, San Juan Co., NM
Schlosser WN Federal 2R, SW/4 Sec. 3-T27N-R11W, San Juan Co., NM

Gentlemen:

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New Mexico Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

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Sincerely,

J. M. McCarthy
District Production Superintendent

JMM/MDM:1a1

cc: ✓ Mr. David Catanach
NMOCD
P. O. Box 2088
Santa Fe, New Mexico 87501

Mr. Ernie Busch
NMOCD
1000 Rio Brazos Road
Aztec, New Mexico 87410

WAIVER

BHP Petroleum (Americas), Inc. waives objection to ARCO's application to commingle as set forth above.

By: _____

Date: _____

ARCO Oil and Gas Company
Central District
Post Office Box 1610
Midland, Texas 79702-
Telephone 915 688 5200



January 18, 1988

Tenneco Oil Company
P. O. Box 3249
Englewood, Colorado 80155

Re: Request for Waiver of Objection; Downhole Commingling
Schlosser WN Federal 1R, NW/4 Sec. 10-T27N-R11W, San Juan Co., NM
Schlosser WN Federal 2R, SW/4 Sec. 3-T27N-R11W, San Juan Co., NM

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New Mexico Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

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Sincerely,

J. M. McCarthy
District Production Superintendent

JMM/MDM:1a1

cc: Mr. David Catanach
NMOCD
P. O. Box 2088
Santa Fe, New Mexico 87501

Mr. Ernie Busch
NMOCD
1000 Rio Brazos Road
Aztec, New Mexico 87410

WAIVER

Tenneco Oil Company waives objection to ARCO's application to commingle as set forth above.

By: _____ Date: _____

ARCO Oil and Gas Company
Central District
Post Office Box 1610
Midland, Texas 79702
Telephone 915 688 5200



January 18, 1988

Chevron USA, Inc.
P. O. Box 670
Hobbs, New Mexico 88240
Attn: G. C. Hollingsworth

Re: Request for Waiver of Objection; Downhole Commingling
Schlosser WN Federal 1R, NW/4 Sec. 10-T27N-R11W, San Juan Co., NM
Schlosser WN Federal 2R, SW/4 Sec. 3-T27N-R11W, San Juan Co., NM

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New Mexico Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

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Sincerely,

J. M. McCarthy
District Production Superintendent

JMM/MDM:1a1

cc: ✓ Mr. David Catanach
NMOCD
P. O. Box 2088
Santa Fe, New Mexico 87501

Mr. Ernie Busch
NMOCD
1000 Rio Brazos Road
Aztec, New Mexico 87410

WAIVER

Chevron USA, Inc. waives objection to ARCO's application to commingle as set forth above.

By: _____ Date: _____

ARCO Oil and Gas Company
Central District
Post Office Box 1610
Midland, Texas 79702
Telephone 915 688 5200



January 18, 1988

Marathon Oil Company
P. O. Box 552
Midland, Texas 79702

Re: Request for Waiver of Objection; Downhole Commingling
Schlosser WN Federal 1R, NW/4 Sec. 10-T27N-R11W, San Juan Co., NM
Schlosser WN Federal 2R, SW/4 Sec. 3-T27N-R11W, San Juan Co., NM

Gentlemen:

The purpose of this letter is to notify you that ARCO Oil and Gas Company has applied to the New Mexico Oil Conservation Division pursuant to Rule 303-C to downhole commingle production from the Gallup and Dakota formations in the above referenced wells. If you, as an offset operator, have no objection to the proposed commingling, please sign the waiver at the bottom of this page and forward to:

Mr. David Catanach
New Mexico Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

We would appreciate your returning one copy to the undersigned. If questions should arise, please contact Mark McWherter at (915) 688-5231.

Sincerely,

J. M. McCarthy
District Production Superintendent

JMM/MDM:1a1

cc: ✓ Mr. David Catanach
NMOCD
P. O. Box 2088
Santa Fe, New Mexico 87501

Mr. Ernie Busch
NMOCD
1000 Rio Brazos Road
Aztec, New Mexico 87410

WAIVER

Marathon Oil Company waives objection to ARCO's application to commingle as set forth above.

By: _____

Date: _____



January 18, 1988

Meridian Oil Inc.
P. O. Box 4289
Farmington, New Mexico 87499

Re: Request for Waiver of Objection; Downhole Commingling
Schlosser WN Federal 1R, NW/4 Sec. 10-T27N-R11W, San Juan Co., NM
Schlosser WN Federal 2R, SW/4 Sec. 3-T27N-R11W, San Juan Co., NM

Gentlemen:

The purpose of this letter is to notify you that ARCO Oil and Gas Company has applied to the New Mexico Oil Conservation Division pursuant to Rule 303-C to downhole commingle production from the Gallup and Dakota formations in the above referenced wells. If you, as an offset operator, have no objection to the proposed commingling, please sign the waiver at the bottom of this page and forward to:

Mr. David Catanach
New Mexico Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

We would appreciate your returning one copy to the undersigned. If questions should arise, please contact Mark McWherter at (915) 688-5231.

Sincerely,

J. M. McCarthy
District Production Superintendent

JMM/MDM:1a1

cc: ✓ Mr. David Catanach
NMOCD
P. O. Box 2088
Santa Fe, New Mexico 87501

Mr. Ernie Busch
NMOCD
1000 Rio Brazos Road
Aztec, New Mexico 87410

WAIVER

Meridian Oil Inc. hereby waives objection to ARCO's application to commingle as set forth above.

By: _____ Date: _____

ARCO Oil and Gas Company
Central District
Post Office Box 1610
Midland, Texas 79702
Telephone 915 688 5200



January 18, 1988

R&G Drilling Company
c/o Walsh Engineering & Production Corp.
P. O. Drawer 419
Farmington, New Mexico 87499

Re: Request for Waiver of Objection; Downhole Commingling
Schlosser WN Federal 1R, NW/4 Sec. 10-T27N-R11W, San Juan Co., NM
Schlosser WN Federal 2R, SW/4 Sec. 3-T27N-R11W, San Juan Co., NM

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Mr. David Catanach
New Mexico Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

We would appreciate your returning one copy to the undersigned. If questions should arise, please contact Mark McWherter at (915) 688-5231.

Sincerely,

J. M. McCarthy
District Production Superintendent

JMM/MDM:la1

cc: ✓ Mr. David Catanach
NMOCD
P. O. Box 2088
Santa Fe, New Mexico 87501

Mr. Ernie Busch
NMOCD
1000 Rio Brazos Road
Aztec, New Mexico 87410

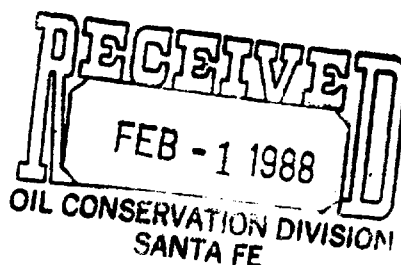
WAIVER

R&G Drilling Company hereby waives objection to ARCO's application to commingle as set forth above.

By: _____ Date: _____

ARCO Oil and Gas Company
Central District
Post Office Box 1610
Midland, Texas 79702
Telephone 915 688 5200

January 18, 1988



R&G Drilling Company
c/o Walsh Engineering & Production Corp.
P. O. Drawer 419
Farmington, New Mexico 87499

Re: Request for Waiver of Objection; Downhole Commingling
Schlosser WN Federal 1R, NW/4 Sec. 10-T27N-R11W, San Juan Co., NM
Schlosser WN Federal 2R, SW/4 Sec. 3-T27N-R11W, San Juan Co., NM

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Mr. David Catanach
New Mexico Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

We would appreciate your returning one copy to the undersigned. If questions should arise, please contact Mark McWherter at (915) 688-5231.

Sincerely,

A handwritten signature in cursive script, appearing to read "J. M. McCarthy".

J. M. McCarthy
District Production Superintendent

JMM/MDM:1a1

cc: Mr. David Catanach
NMOCD
P. O. Box 2088
Santa Fe, New Mexico 87501

Mr. Ernie Busch
NMOCD
1000 Rio Brazos Road
Aztec, New Mexico 87410

WAIVER

R&G Drilling Company hereby waives objection to ARCO's application to commingle as set forth above.

FOR: R & G DRILLING COMPANY

By: A handwritten signature in cursive script, appearing to read "Ewell N. Walsh".
Ewell N. Walsh, President
Walsh Engr. & Prod. Corp.

Date: January 28, 1988



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE

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

OIL CONSERVATION DIVISION
BOX 2088
SANTA FE, NEW MEXICO 87501

DATE 1-28-88

RECEIVED
FEB - 1 1988

RE: Proposed MC _____
Proposed DHC X _____
Proposed NSL _____
Proposed SWD _____
Proposed WFX _____
Proposed PMX _____

Gentlemen:

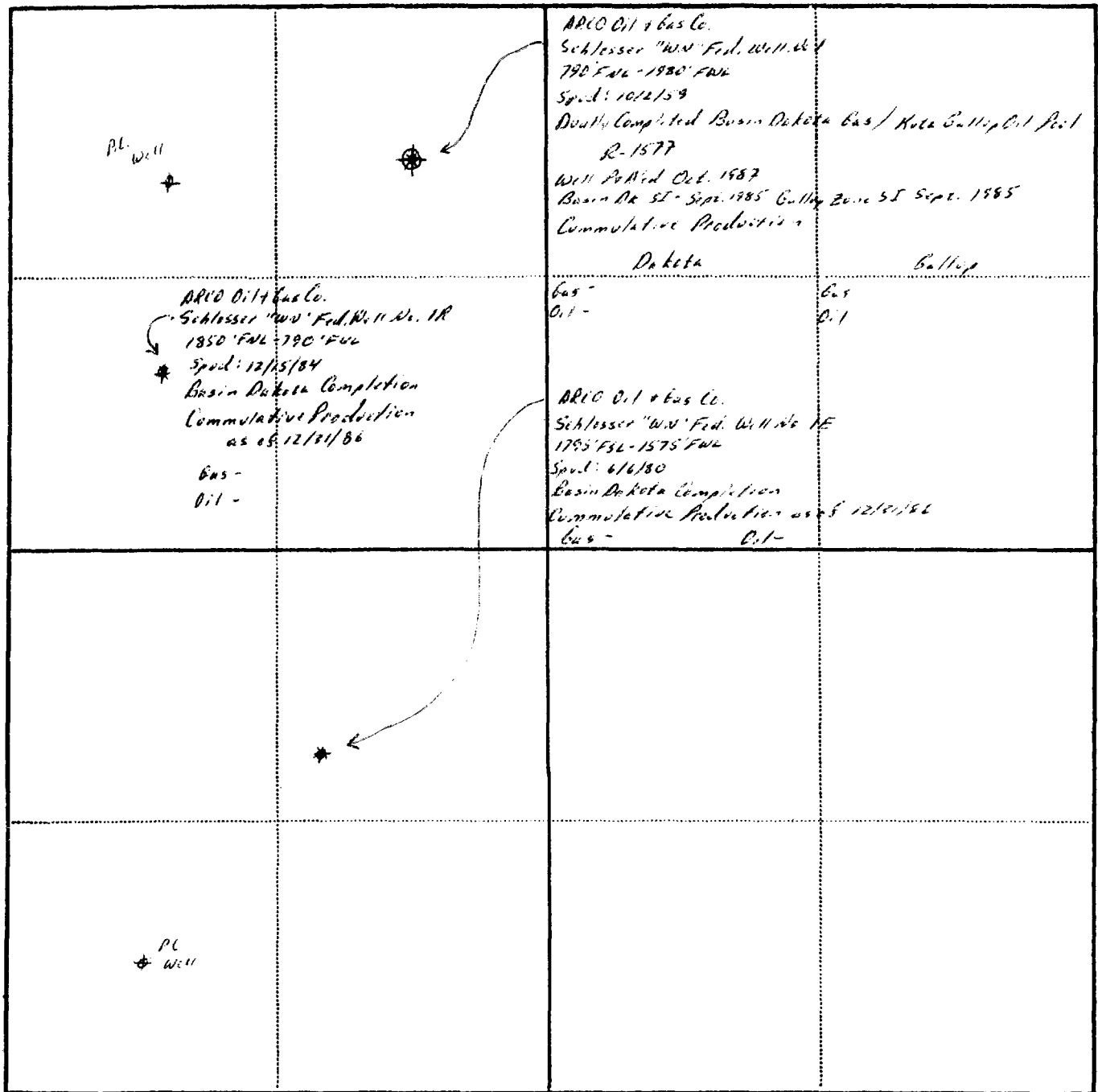
I have examined the application dated 1-25-88
for the ARCO Oil & Gas Co. Schlusser WN FED#2R H-3-27N-11W
Operator Schlusser WN FED#1R E-10-27N-11W
Lease and Well No. Unit, S-T-R

and my recommendations are as follows:

Approve District will determine
allocation after recompletion

Yours truly,

Earl Bunch



CHA-CHA-GALLUP POOL
San Juan County, New Mexico

Order No. R-1800, October 3, 1960, Establishing Pool, as Amended by Order No. R-1825, November 21, 1960; Order No. R-1858, February 1, 1961; Order No. R-1879, March 1, 1961; Order No. R-1908, April 1, 1961; Order No. R-1943, May 1, 1961; Order No. R-1982, June 1, 1961; Order No. R-2000, July 1, 1961; Order No. R-2048, September 1, 1961; Order No. R-2063, October 1, 1961; Order No. R-2102, November 1, 1961; Order No. R-2140, January 1, 1962; Order No. R-2173, February 1, 1962; Order No. R-2188, March 1, 1962; Order No. R-2222, May 1, 1962; Order No. R-2364, December 1, 1962; Order No. R-2398, January 1, 1963; Order No. R-2570, October 1, 1963; Order No. R-2603, December 1, 1963; Order No. R-5843, December 1, 1978; Order No. R-6327, May 1, 1980; Order No. R-6886, January 1, 1982; Order No. R-7046, August 1, 1982; Order No. R-7277, May 1, 1983; Order No. R-7420, January 1, 1984.

T-28-N, R-12-W W/2 Sec. 29; N/2 Sec. 30.
T-28-N, R-13-W Secs. 7, 8, 9; W/2 SW/4 Sec. 14; S/2, S/2 NW/4 Sec. 15; Secs. 16, 17; NE/4, E/2 SE/4 Sec. 21; W/2 SW/4, N/2 Sec. 22; Sec. 23; SW/4, S/2 SE/4 Sec. 24; E/2 NE/4 Sec. 25; N/2 NW/4 Sec. 26.
T-29-N, R-13-W S/2 SW/4, SW/4 SE/4 Sec. 30; S/2, NW/4, W/2 NE/4 Sec. 31; SW/4 Sec. 32.
T-29-N, R-14-W S/2 S/2 Sec. 7; S/2, S/2 NW/4 Sec. 16; S/2, S/2 NW/4 Sec. 17; Sec. 18; N/2, E/2 SE/4 Sec. 20; Sec. 21; S/2, NW/4, W/2 NE/4 Sec. 22; S/2 SW/4, W/2 SE/4 Sec. 23; S/2, NW/4, W/2 NE/4 Sec. 25; Secs. 26, 27; N/2 Sec. 28; E/2 NE/4 Sec. 34; E/2, NW/4 Sec. 35; Sec. 36.
T-29-N, R-15-W S/2 SW/4 Sec. 1; E/2, E/2 NW/4 Sec. 11; S/2, NW/4 Sec. 12; NW/4, E/2 Sec. 13; N/2 Sec. 14.

BASIN-DAKOTA GAS POOL
Rio Arriba, San Juan and Sandoval Counties, New Mexico

Order No. R-1670-C, February 1, 1961, Creating the Basin-Dakota Gas Pool, and Abolishing all Dakota Gas Pools Except Barker Creek-Dakota and Ute Dome-Dakota Gas Pools, Rio Arriba and San Juan Counties, New Mexico, as Amended by Order No. R-1879, March 1, 1961.

All San Juan and Rio Arriba Counties excepting Barker Creek-Dakota and Ute Dome-Dakota Gas Pools.

T-23-N, R-5-W Sec. 21.

OTERO-DAKOTA GAS POOL
Rio Arriba County, New Mexico

Order No. R-739-A, March 14, 1956, Establishing Pool, as Amended by Order No. R-1018, June 28, 1957; Order No. R-1080, October 29, 1957; Order No. R-1175, May 26, 1958; Order No. R-1211, June 26, 1958; Order No. R-1373, April 21, 1959, Renaming Pool.

New pool designated as Basin-Dakota Gas Pool established absorbing all Dakota pools abolished, including this, by Order No. R-1670-C, February 1, 1961.



KUTZ-GALLUP POOL
San Juan County, New Mexico

Order No. R-1825, November 21, 1960, Establishing Pool, as Amended by Order No. R-1858, February 1, 1961; Order No. R-1879, March 1, 1961; Order No. R-4292, May 1, 1972; Order No. R-5339, February 1, 1977; Order No. R-6886, January 1, 1982; Order No. R-8417, April 1, 1987.

T-27-N, R-10-W NW/4 Sec. 5; N/2 Sec. 6.
T-27-N, R-11-W N/2, SW/4 Sec. 1; Sec. 2; SW/4 Sec. 3; S/2 NW/4, NW/4 NE/4 Sec. 4; Sec. 5; NE/4 NE/4 Sec. 6; N/2 SE/4 Sec. 9; N/2 Sec. 10; W/2, NE/4 Sec. 11; NW/4 Sec. 12; NW/4 SW/4 NE/4 Sec. 14.
T-28-N, R-10-W SW/4 Sec. 32.
T-28-N, R-11-W SE/4 Sec. 31; SW/4 Sec. 32.

KUTZ-FRUITLAND GAS POOL
San Juan County, New Mexico

Order No. R-1141, March 25, 1958, Establishing Pool, as Amended by Order No. R-4260, March 1, 1972; Order No. R-4690, December 1, 1973; Order No. R-4963, March 1, 1975; Order No. R-5339, February 1, 1977; Order No. R-5470, July 1, 1977; Order No. R-5779, August 1, 1978; Order No. R-6180, November 1, 1979; Order No. R-7185, January 1, 1983; Order No. R-7495, April 1, 1984.

T-28-N, R-10-W NW/4 Sec. 26; N/2 Sec. 27; N/2 Sec. 28; N/2 Sec. 29; Sec. 30; N/2 Sec. 31.
T-28-N, R-11-W W/2 Sec. 13; S/2, NE/4 Sec. 14; Sec. 23; NW/4 Sec. 24; N/2 Sec. 25; Secs. 26, 27; SE/4 Sec. 28; NE/4 Sec. 32; N/2 Sec. 33.

LA PLATA GALLUP POOL
San Juan County, New Mexico

Order No. R-1701, June 16, 1960, Establishing Pool, as Amended by Order No. R-3720, April 1, 1969; Order No. R-6180, November 1, 1979; Order No. R-7495, April 1, 1984.

T-31-N, R-13-W NW/4, S/2 Sec. 5; SE/4, N/2 Sec. 6.
T-32-N, R-13-W S/2 Sec. 31; N/2, SW/4 Sec. 32.

RATTLESNAKE-PENNSYLVANIAN "B" GAS POOL
San Juan County, New Mexico

Order No. R-2580, November 1, 1963, Establishing Pool.

Pool abolished by Order No. R-3057, May 1, 1966 Consolidated into Rattlesnake-Pennsylvanian "BCD" Oil Pool

PUERTO CHIQUITO-MANCOS POOL
Rio Arriba County, New Mexico

Order No. R-1653, April 19, 1960, Establishing Pool, as Amended by Order No. R-1682, May 20, 1960; Order No. R-2222, May 1, 1962; Order No. R-2242, June 1, 1962; Order No. R-2293, August 1, 1962; Order No. R-2340, November 1, 1962; Order No. R-2398, January 1, 1963; Order No. R-2486, June 1, 1963; Order No. R-2528, August 1, 1963; Order No. R-2565, September 9, 1963; Order No. R-2580, November 1, 1963.

Pool abolished by Order No. R-2565-B, November 28, 1966.