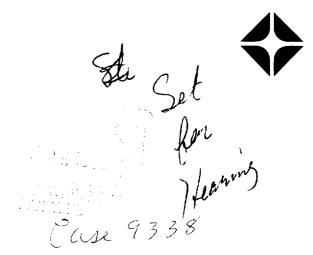
January 18, 1988

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



Re: Application for Administrative Approval to Down Hole Commingle Schlosser WN Federal 1R-1850' FNL, 790' FWL, Sec 10-T27N-R11W and

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 recomplete 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 Rule 303-C sets limits on the maximum oil from 5802'-6044'. 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 Projected rates for the proposed Gallup recompletions are #2R. 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 lefthand 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 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.

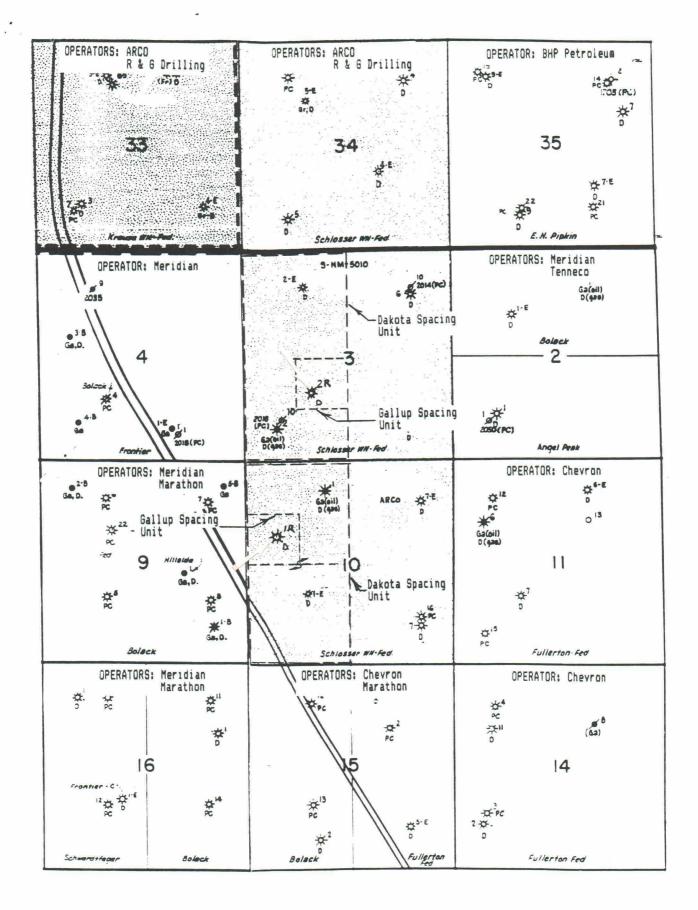
Sincerely,

chall

J. M. McCarthy District Production Superintendent

JMM/MDM:1a1

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



ARCO Oil and Gas Company

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

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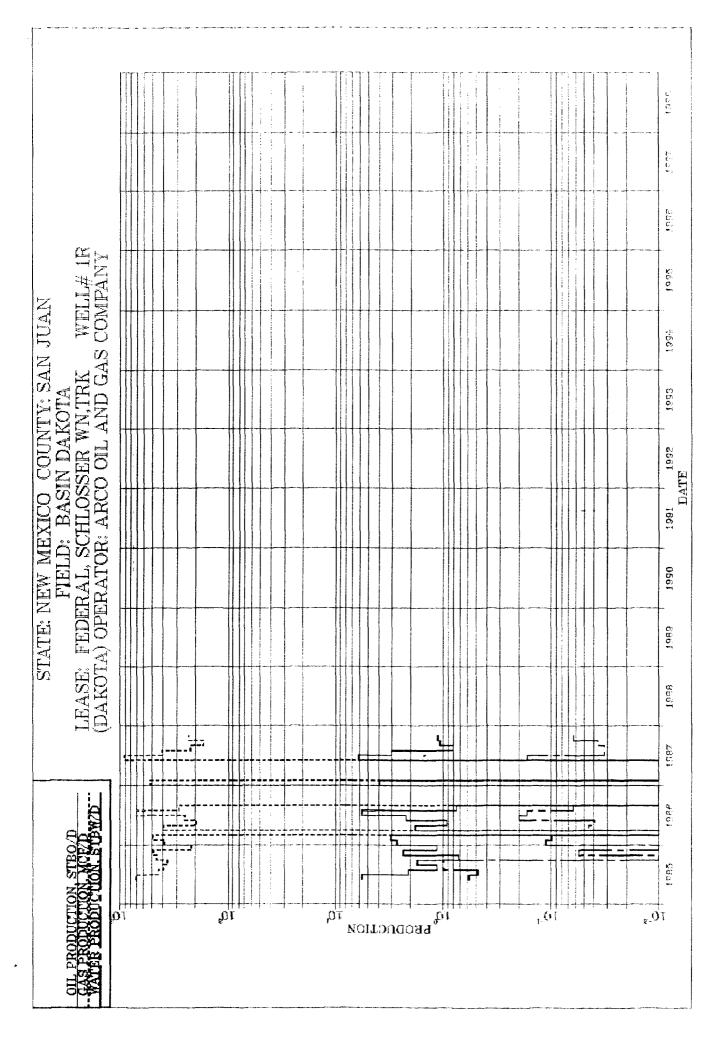
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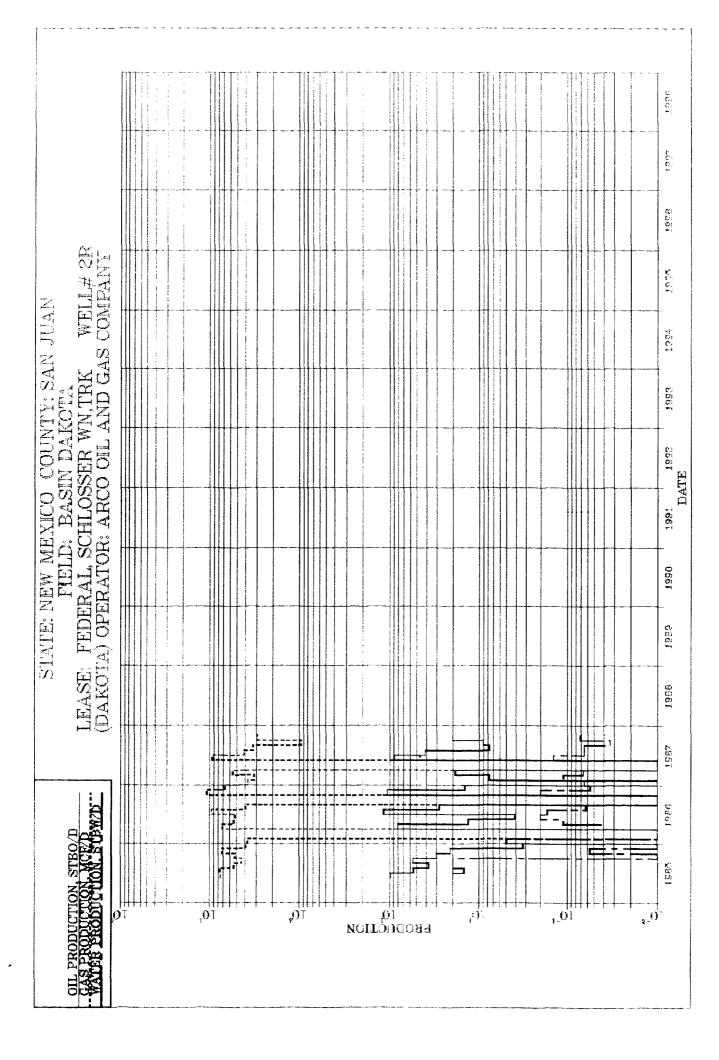
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	ARCO 01 & Gas Company, Divisi of Atlantic Richfield Company	1816 E. Mojave, Farmington,		LEASE NAME	Schlosser	No well will be assigned an allowable grader than the amount of oil produces. During gas-oil sade test, and well shall be produced at a rate not exceed laught by mane than 23 person. Operator is encouraged to take adventage of this laugested by amouthes shan authorized by the Commission. One relates must be reported in MCP measured at a pressure have of [5,62]						

NEW MEXICO OIL CONSERVATION COMMISSION

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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

Component	Normal Mol %	Normal Mol %
CO2 N2 Methane Ethane Propane Iso-butane Normal-butane Iso-pentane Normal-pentane	.98 .88 83.95 9.73 2.85 .42 .56 .22 .15	.96 .85 80.10 11.07 4.26 .72 1.02 .36 .26
Hexane plus	.26 100.00	.40 100.00
Specific Gravity Mixture Heating Value (BTU/CF @ 14.73 psig, 60°F, Dry)	.672 1158	.712 1121



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:
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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

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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 C Central Distric Post Office Bo Midland, Texa Telephone 915	ct	
January 18, 1988		
Tenneco Oil Company P 0. Box 3249	and a second	

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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Sincerely.

ncharty

J. M. McCarthy District Production Superintendent

JMM/MDM:1a1

cc: / Mr. David Catanach NMOCD P. 0. Box 2088 Santa Fe, New Mexico 87501 Aztec, New Mexico 87410

Mr. Ernie Busch NMOCD 1000 Rio Brazos Road

WAIVER

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

By:_____ Date:_____



January 18, 1988

Chevron USA, Inc. P. 0. 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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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:_____



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

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Sincerely,

J. M. McCarthy / District Production Superintendent

JMM/MDM:1a1

cc: VMr. 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

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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

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

By:_____ Date:_____



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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Sincerely,

J. M. McCárthy / 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.

By	•	Date:	
			_

January 18, 1988

OIL CONSERVATION DIVISION SANTA FE



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

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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

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

FOR: R & G DRILLING COMPANY BV: COAK

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

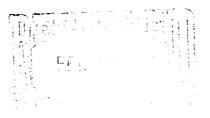
01L CONSERVATION DIVISION BOX 2088 SANTA FE, NEW MEXICO 87501 DATE <u>1 - 28-58</u> RE: Proposed MC Proposed DHC X Proposed NSL	FEB - 1 1988	(505) 334-6176			
Proposed SWD Proposed WFX Proposed PMX Gentlemen:					
I have examined the applica	tion dated 1-25-88				
	Schlesser WN FED#2R Schlesser WN FED#1R Lease and Well No.	1-3-271111			
Operator	Lease and Well No.	<u>E-10-27W-11u5</u> Unit, S-T-R			
and my recommendations are	as follows:				
Approve District will determine					
allocation after recompletion					
<u> </u>		وستشاور بردامي شياري برغائي وتناتي واستقالتي بري المحور المالة			

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Yours truly,

nach

MERIDIAN OIL



February 22, 1988

New Mexico Oil Conservation Division Attention: Mr. David Catanach Post Office Box 2088 Santa Fe, New Mexico 87501

> Re: ARCO Oil & Gas Company Request for Commingling Waiver Schlosser WN Federal #1 R NW/4 Section 10, T-27-N, R-10-W

> > Schlosser WN Federal #2 R SW/4 section 3, T-27-N, R-10-W San Juan County, New Mexico

Gentlemen:

This is to advise that per the attached ballot, Meridian Oil, as an offset operator to the referenced request, does not object to the commingling of the Gallup and Dakota formation.

Please contact the undersigned at 505-326-9760 if anything further is required regarding this matter.

Yours very truly,

de Forchus

Linda Donohue Landman

LD:gm Arco Oil & Gas Corresp.

Document 0058L

cc: ARCO Oil & Gas Attention: J. M. McCarthy



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

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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: Donald R. K.a

Date: **2-17-88**

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Page 12 New Mexico

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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-1908, April 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-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-2188, March 1, 1962; Order No. R-2229, 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. 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.

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, Re-naming 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.

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 A-mended 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.

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