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CONTINENTAL QIL COMPANY

Farango, Colorado May 24, 1966 WALL OF TICE ODG

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New Mexico Oil Conservation Commission P. C. Box 2088 Seuta Re, New Mexico

Gentlemen:

Continental Oil Company respectfully requests authority to commingle in common surface facilities, the liquid hydrocarbon production from the Rattleonake Dahota Pool and the Rattleonake Pennsylvanian "BCD" Pool, T29N, R19W, San Juan County, New Mexico. Both pools underlie the same lease and have common royalty interest owners. Both pools are of a marginal producing status. The United States of America (represented by the Department of Interior-Bureau of Mines), has a 50 percent carried working interest in the Pennsylvanian "BCD" Pool. Continental Oil Company is responsible for 100 percent operating, costs and royalty payment. The Dakota pool is 100 percent owned and operated by Continental.

The purpose of the proposed commingling is to reduce operating costs of these two stripper pools which are presently a marginal economic operation, and to salvage usable surface equipment for other operations.

A schematic diagram of the proposed installation is attached. Oil production from the Pennsylvanian "ECD" Pool will be separately metered at all times. The meter will be proven when proving the ACT sales meter or as required by the Commission. The production for the unmetered Dakota zone will be determined by the difference between the net pipeline runs through the mutomatic custody transfer unit, with beginning and ending stock adjustments, and the net production of the metered Pennsylvanian "BCD" Pool. Payment to the carried working interest owner for the Pennsylvanian "BCD" Pool oil production will be credited on the basis of actual gravity and production metered; therefore, no revenue difference will result due to gravity price reduction. An automatic sampler will be installed at the "RCD" Pool meter to sample the production prior to commingling.



It is believed that the proposed commingling will be in the best interest of conservation and belp to prevent premeture abandonment of the two pools.

Very truly yours,
IS Helen

H. D. Haley District Hanager Durango District Production Department

GAB/sf

cc: N. M. O. C. C., P. O. Box 697, Aztec, New Mexico

U. S. G. S., P. O. Box 1857, Reswell, New Maxico

U. S. G. S., P. O. Box 959, Parmington, New Mexico

U. S. Burezu of Mines, P. O. Box 10085, Amerillo, Texas

Attachmente

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CONTINENTAL OIL COMPANY

P. O. Box 1621 Burango, Colorado May 26, 1966

0. S. Bureen of Mines F. O. Box 10085 Awarillo, Texas



Gentlamen:

Attached is a copy of our application which we propose to submit to the New Mexico Oil Conservation Commission requesting approval to commission nequesting approval to commission neglecting the common surface facilities, the oil production from the Rattle-stake Dakota Pock and the Pennsylvanian "BCD" Pool in T29N, R19%, San Juan County, New Mexico. Beth pools underlie the Rattlesnake lease and have conson royalty concession. The United States of America (represented by the Department of the Interior-Bureau of Mines), has a 50 percent carried working interest in the Pennsylvanian "BCD" operation by agreement entered into September 19, 1946.

The purpose of the proposed commingling is to reduce operating expenses on both pools which are presently in the stripper stage of operation, and to salvage usable surface equipment for credit to the lease. Reducing operating expenses is essential at this time to prevent abandonment of the pools and to continue lease operations. The salvage value of all equipment end materials salvaged by the proposed installation will be accounted for and proposed commingling is \$3500. All equipment required for the proposed installation is presently on the lease and in operation. The installation will require no installation of new equipment and will involve only the salvage of present equipment not required.

Attached is a schematic diagram of the proposed method for commingating. As shown, oil production from the Pennsylvanian "BCB" Pool will be reparately matered at all times. This meter will be proven when the ACT meter is proven. The cil production for the unmatered Dakota zone will be determined by the difference between the total net pipeline runs through the automatic custody transfer unit, with beginning and ending stock adjustments, and the net production of the metered Fennsylvanian "BCB" Fool. Payment credited to the carried working interest owner for the Fennsylvanian "BCB" Pool oil production will be based on actual oil gravity and production determined through the "BCB" metering and sampling facilities rather than commingled production through the ACT Unit; therefore, revenue credited to the United States Government will not be affected by the oil gravity and price differential occurring by the proposed commingling. As automatic sampler will be utilized in conjunction with the "BCB" Pool meter system to determine oil gravity and price prior to commingling the fluid production (see attached diagram).

Uler III ver Lesta Bege Via

If as a carried working interact owner, the Department of the Interior-Bureau of Mines consents to the proposed comingling, it is requested that a letter so stating be forwarded to our office at the above address for substitut with our application to the New Mexico Oil Conservation Commission.

Very truly yours,

H. D. Haley

District Manager Durango District Froduction Department

GAB/GE

cc: U.S.G.S., P. C. Box 1857, Roswell, New Mexico U.S.G.S., P. C. Box 959, Farmington, New Mexico

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CONTINENTAL OIL COMPANY

P. O. Boz 1**521** Parango, **Colo**rado Sano <mark>3, 1966</mark>

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The season that production from the Prencylvanier "JID" Pool will be convent in active at all times. This maker will be preven when exactly the convent in active at all times. This maker will be preven when exactly the constant for the constant Pakets some will be determined as the time for the constant runs through the actoratic metady dramated write, with highering and endeding about edgestrance, and has not production of the constant "NCD" Pool. Represe to the United States across the training the Teach across a second of the constant PECO" makering and amplied facilities insulated that will be to reduction in reverse credited to the torking interest areas for a rith be to reduction in reverse credited to the torking interest areas for interesting and the constant of t

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UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Drawer 1857 Roswell, New Mexico 88201 RECEIVED
DURANGO PROD.

JUL 51966

OFFICE MGR. | B.

OFFICE MGR.
DIST. MGR.
June- 27, 1966
DIST. ENG.

Continental Oil Company P. O. Box 1621 Durango, Colorado

Attention: Mr. H. D. Haley

Gentlemen:

Your letter of June 6, 1966 requests permission to commingle Dakota and Pennsylvanian "BCD" liquid hydrocarbon production from the Rattlesnake Field, San Juan County, New Mexico, on Navajo Indian lease I-89-Ind-56.

Your proposal to commingle liquids on the surface and measure through a common LACT system with Dakota production determined as the difference between total net LACT pipeline runs and metered Pennsylvanian "BCD" production is satisfactory to this office, subject to the moving of the Pennsylvanian gas meter down stream from the junction of the gas lines from the separator and production treater. Form 9-361, Lessee's Monthly Report of Sales and Royalty, must show all computations used in the calculations of volumes from each formation.

You are requested to notify our Farmington office when the installation has been completed in order that a field inspection can be made.

Sincerely yours,

JOHN A. ANDERSON

Regional Oil and Gas Supervisor



DEPARTMENT OF THE INTERIOR CEIVED

BUREAU OF MINES

WASHINGTON 25, D. C.

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July 1, 1966FFICE MGR.

DIST. MGR.
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DIST. ENG.
DIST. ENG.
MGM

Mr. H. D. Haley District Manager Continental Oil Company P. O. Box 1621 Durango, Colorado

Dear Mr. Haley:

This acknowledges receipt of your letter dated May 24, 1966, and the enclosed proposed application to the New Mexico Oil Conservation Commission for authority to commingle, in common surface facilities, the liquid hydrocarbon production from the Rattlesnake Dakota Pool and the Rattlesnake Pennsylvanian "BCD" Pool in Township 29 North, Range 19 West, San Juan County, New Mexico. Both pools underlie the same lease and have common royalty ownership. By the terms of the agreement dated September 19, 1946, the United States of America, represented by the Department of the Interior, Bureau of Mines, holds a 50 percent carried working interest in the formations below the base of the Dakota.

No objection is offered to the proposed commingling, in common surface facilities, the liquid hydrocarbon production from the Rattlesnake Dakota Pool and the Rattlesnake Pennsylvanian Pool, provided such commingling is conducted as set forth in your proposed application to the New Mexico Oil Conservation Commission, and provided further that the Commission, and any other agency having jurisdiction, grants the necessary authority for such commingling.

You are hereby authorized, at your discretion, to furnish this letter, or appropriate copies thereof, to the New Mexico Oil Conservation Commission, and to any other regulatory agency having jurisdiction, as part of, or in support of, the application to commingle.

Sincerely yours,

Homas.

Director

COMMINGLING DATA REQUIREMENTS

Rattlesnake Lease San Juan County, New Mexico

NUMBER OF WELLS

Dakota Pool

Pennsylvanian "BCD" Pool - 5

TOP UNIT ALLOWABLE

Dakota Pool

- 630 EOPD

Pennsylvanian "BCD" Pool - 920 BOPD

PRESENT ALLOWABLE

Dakota (Recovery Project-March, 1966) - 1341 BOPD

Pennsylvanian "BCD" (Pool Total) - 74 BOPD

PRODUCTION DATA (Daily

Average)

Dakota Pool Pennsylvanian "RCD" Fool January 1966 43 BOPD 64 BOPD February 1966 37 BOPD 24 EOPD March 1966 30 BOPD 29 BOPD April 1966 20 BOPD 35 BOPD

CRUDE PURCHASER

Four Corners Pipe Line Co., Farmington, New Mexico

ROYALTY INTEREST OWNER

Common - Navajo Indian Tribe - 12 1/2 percent

working interest owners

Dekota

- Continental Oil Company - 100%

Penn. "BCD" - Continental Oil Company - 100%

United States of America-U. S. Bureau of Mines - 50% Carried Working Interest)

LIQUID HYDROCARBON

GRAVITIES

Dakota - 58.5° API

Penn. "BCD" - 44.40 API

COMMINGLED LIQUID

GRAVITY

47.70 API

Value of 58.5° API Crude - \$2.53/Bb1. Value of 44.40 API Crude - \$2.75/Bb1.

Value of 47.7° API Crude - \$2.69/Bb1.

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ANTICIPATED PRODUCING

RATES

Dakota - 20 BOPD

Penn. "BCD" - 60 EOPD

VALUE CALCULATIONS

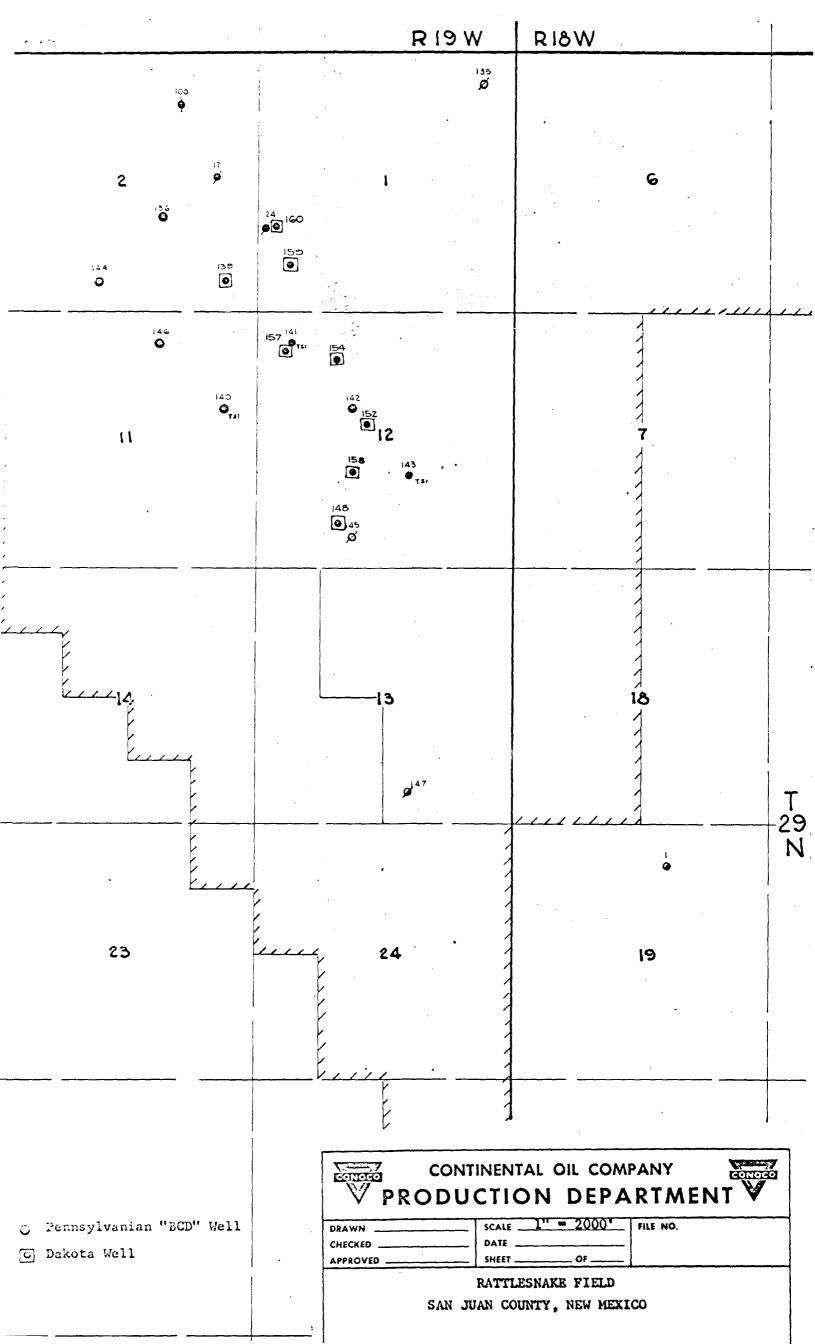
Dakota - 20 BOPD X 2 53 = \$ 50.60/Day

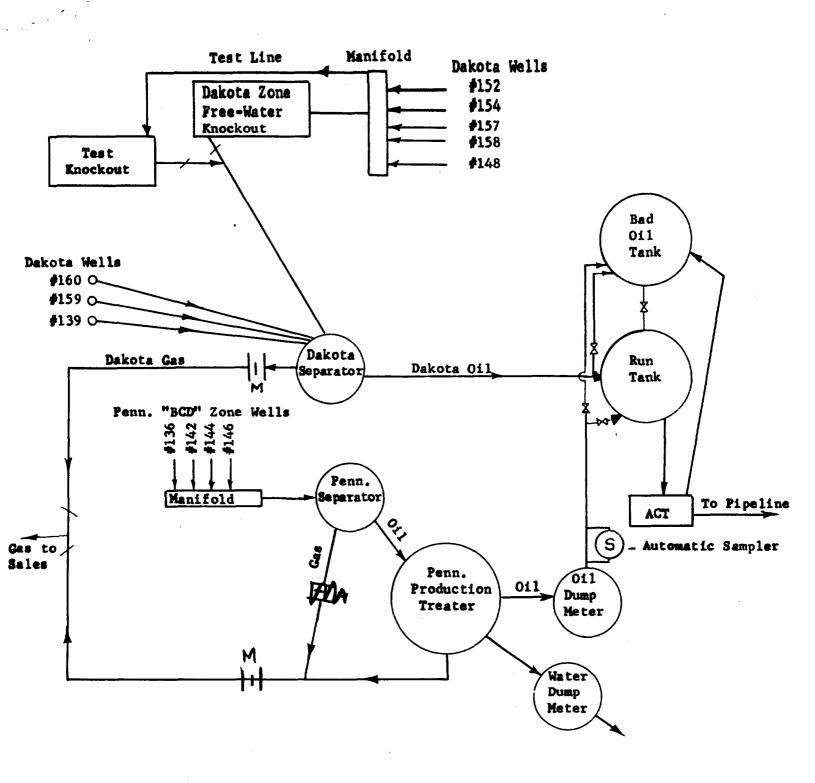
Penn. "BCD" - 60 BOPD X 2.75 = 165.00

Total Separate Value = \$215.60/Day

= \$215.20/Day Commingled Value=80 BOPD x \$2.69

The value of the commingled production will be approximately the same as the total value of the production from each common source of supply.





PROPOSED SURFACE COMMINGLING INSTALLATION RATTLESNAKE PENNSYLVANIAN "BCD" OIL POOL AND DAKOTA OIL POOL

SAN JUAN COUNTY, NEW MEXICO T29N, R19W

MAIN OFFICE OFF

Drawer 1857 Roswell, New Mexico 88201

June 27, 1966

Continental Oil Company P. O. Box 1621 Burange, Colorado

Attention: Mr. H. D. Heley

Gentlemen:

Your letter of June 6, 1966 requests permission to commingle Bakets and Pennsylvanian "BCD" liquid hydrocarbon production from the Rattlesnake Field, San Juan County, New Mexico, on Newsje Indian lesse I-89-Ind-56.

Your proposal to commingle liquids on the surface and measure through a common LACT system with Dahota production determined as the difference between total net LACT pipeline runs and metered Pennsylvanian "BCD" production is satisfactory to this office, subject to the moving of the Pennsylvanian gas mater down stream from the junction of the gas lines from the separator and production treator. Form 9-361, Lessee's Heathly Report of Sales and Royalty, must show all computations used in the calculations of volumes from each formation.

You are requested to notify our farmington office when the installation has been completed in order that a field inspection can be made.

Sincerely yours,

(ORIG. SED.) JOH! A. ANDERSON

JOHN A. ANDERSON Regional Oil and Gas Supervisor

cc:
N.M.C.C.C. Sonte Fe
Farmington
Rosvell
Accounts

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Diswer 1857 Leewell, New Markee 28:01

Continental 631 Company 5, 6, 30x 1621 Lerange, Colorado

Actuation: No. H. D. dalay

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cous letter of Jude 6, 1966 requests passission to nonsingle Saketa end temmsylvenism "300" liquid hydrocarbon production from the tasties make Fields, San Suen County, New control, on Marejo Endier lesse 1-39-1:4-56.

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