

CONTINENTAL OIL COMPANY

P. O. Box 3312 Durango, Colorado October 8, 1964

23%

New Mexico Oil Conservation Commission

P. O. Box 2088

Santa Fe, New Mexico

Attn: Mr. D. S. Nutter - Chief Engineer

Gentlemen:

Attached are three copies of a letter from the United States Geological Survey, Regional Oil and Gas Supervisor, approving Continental Oil Company's application to commingle the liquid production from the Otero-Gallup Pool and Basin Lakota Pool on our Northeast Haynes Apache Lease in T24N, R5%, Rio Arriba County, New Mexico.

Application to the Commission was made September 3, 1964, and is awaiting the above mentioned approval before processing of the application can be initiated.

Very truly yours,

F. E. Ellis

Assistant District Manager

Durango District

Production Lepartment

GAB/sf



UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLÓGICAL SURVEY

P. O. Drawer 1857 Roswell, New Mexico

DURANGO PROD. OCT 8 = 1964 October 6, 1964

Continental Oil Company P. O. Box 3312

P. O. Box 3312
Durango, Colorado

Attention: Mr. T. E. Ellis

Gentlemen:

Your letter of September 10 with attachments, requests approval to Caroll, commingle Gallup formation oil and Dakota formation condensate from five dually completed wells on Jicarilla Tribal lease Contract No. 36.

According to your proposal liquid hydrocarbons from the Dakota formation will be metered prior to being commingled with the Gallup oil. By diagram of the central battery you show test facilities to allocate production back to each well in the system based on a test split.

The method you propose for the commingling is hereby approved. Any change in the system must receive prior approval from this office. Form 9-361, Lessee's Monthly Report of Sales and Royalty, must show all computation used in the calculation of oil volume for each formation.

You are requested to notify our Farmington office when the installation is completed so that a field inspection of the system can be made.

Sincerely yours,

Acting 61/1 and Gas Supervisor

OIL CONSERVATION COMMISSION

P. O, BOX 871

SANTA FE, NEW MEXICO

September 23, 1964

Continental Oil Company P. O. Box 3312 Durango, Colorado

Attention: Mr. F. E. Ellis

Gentlemen:

Reference is made to your letter dated September 3, 1964, wherein you request authority to commingle the liquid production from the Otero-Gallup Oil Pool and the Basin Dakota Gas Pool on your Northeast Haynes Apache Lease in Township 24 North, Range 5 West, Rio Arriba County, New Mexico.

Inasmuch as this is Indian land, it will be necessary for you to secure the approval of the United States Geological Survey before we can approve the application. Upon receipt of approval to the commingling from the regional director of the United States Geological Survey, we will be happy to process your application.

Very truly yours,

D. S. Nutter Chief Engineer

DSN: sg

cc: United States Geological Survey - Roswell

CONTINENTAL OIL COMPANY

MAIN GEFICE O

164 SEP 11 AH 8 66

Les Monton vil Conservation of Asia of C. G. Box 2083 Janua Fu, West Granico

Literation: Am. A. D. Absolut, Cs. - Contocking-Processor

Guntlemen:

It is respectfully not access by this application for administrative approval of an exception to had 100(a) of the Joanission Rules and Regulations to permit comminguing of hydrocarous fiquid production from five wells dually completed in the other-Ballup, out the Basin Dakota pool on our hortheast Haynes Apacha lease in T24s, 15s, life arriba County, New Mexico, michout separately metering the production from each pool. The ownership of both zones is identical. The specific dual completion wells proposed for installation of comminghing- extering facilities and the location of each well is as follows:

Mortheast Haynes Well To. 3, Just F, Jaction 15, 1244, 25W Mortheast Haynes Well To. 4, Whit E, Section 21, T24W, R5W Mortheast Haynes Well No. 5, Unit E, Section 22, T24W, R5W Tortheast Haynes Well No. 6, Doit D, Jection 15, 124W, R5W Mortheast Haynes Well No. 6, Unit P, Dection 16, T24W, R5W

All wells completed in the Ctero-Jallup pool are marginal and incapable of producing top unit allowable for the pool. Production from the Dasin Dakota pool gas wells is liquid hydrocarbons produced after separation from the Dakota gas which is prorated in accordance with the allowables set by the Commission. As such, the liquid production from the Dakota wells is dependent upon the gas take according to individual well allowables. The Dakota wells produce an average of 15 barrels of 59° API gravity condensate per PACF of gas produced.

Attached is a tabulation of the required data pertaining to production, gravities and values of the liquid hydrocarbons, and anticipated volumes to be commingled. A schematic diagram of the proposed metering and commingling system to be installed at each dual completion well and a diagram showing production and testing facilities at the central battery are also attached.

NMOCC Page Two

Presently, the Gallup oil production is sold through the Llaves pipeline at the central battery. The Dakota condensate production is sold by trucking. Under present operations, storage tanks are located at each Dakota well to store the Dakota condensate production until sufficient volume is available for trucking.

The proposed commingling installations shall be operated in accordance with the provisions of the Commission "Manual for the Installation and Operation of Commingling Facilities".

If any additional information is required, please advise.

Very truly yours,

F. E. Ellis

2/16

Assistant District Manager Durango District Production Department

GAB/ca

cc: E. A. Austin, Continental Cil Company, Denver, Colorado A. T. Smith, Continental Gil Company, Denver, Colorado

COMMINGLING DATA N. E. HAYNES GALLUP-DAROTA DUALS T24N. R5W, Rio Arriba County, New Mexico

1. Daily Average Production for 90-Day Period (5-1-64 to 8-1-64):

	Gallup (Oil)	Dakota (Condensate)
N. E. Haynes No. 2 (Single Dakota)	u	4
N. E. Haynes No. 3 (Gallup-Dakota Dual)	2 6	2
M. E. Haynes No. 4 (Gallup-Dakota Dual)	22	2
N. E. Haynes No. 5 (Gallup-Dakota Dual)	19	2
N. E. Haynes No. 6 (Gallup-Dakota Dual)	L,	4
N. E. Haynes No. 7 (Single Dakota)	•	2
N. E. Haynes No. 8 (Gallup-Dakota Dual)	10	0 (SI)
N. E. Haynes No. 9 (Single Gallup)	53	-
N. E. Haynes No. 10 (Single Gallup)	_22	-
TOTAL	156 BOPD	16 BOPD*

- * Dakota production low due to reduced gas takes during summer months.
- 2. Top Unit Allowable: Gallup 94 BOPD

 Dakota No oil allowable Prorated Basin Dakota Gas.
- 3. Crude Purchaser: Llaves Pipeline Ltd.-Shell Oil Company
- 4. Royalty Interest Owner: Jicarilla Apache Tribe
- 5. Liquid Hydrocarbon Gravities: Gallup 43.6° API Dakota - 59.4° API
- Commingled Liquid Hydrocarbon Gravity (Assuming 80% Gallup 20% Dakota):
 47° API
- 7. Value of Liquid Hydrocarbons: Gallup \$2.35 per bbl. (no penalty)
 Dakota \$2.20 per bbl. Flat Price
- 3. Value of Commingled Hydrocarbons: \$2.29 per bbl. (\$.06/bbl. penalty)
- 9. Anticipated Producing Rates: Gallup 140 EOPD (7 wells)
 Dakota 35 BOPD (5 wells)
- 10. Value Calculations: (Based on average producing rates total lease)

Gallup - 140 BOPD x \$2.35 = \$329.00 Dakota - 35 BPD x \$2.20 = 77.00 Total Separate Value = \$406.00

Commingled Value - 175 BPD x \$2.29 = \$400.75

Commingling Data Page Two

A volume increase of 8 percent would be expected for the Dakota condensate due to staging the liquid to 250 psi pressure (Gallup system) rather than to atmospheric stock tank pressures. This would increase total lease production from 175 BOPD to 178 BOPD for a value of 178 BOPD x \$2.29 = \$407.62. Therefore, the value of the commingled production should not be less than the value of the production from each common source of supply.

The amount of Dakota condensate production will be dependent upon the gas takes from each Dakota gas well which is provated according to the Basin-Dakota gas allowables.

Additional Gallup development drilling is anticipated in the near future which will increase total Gallup production for the lease by approximately 100 BOPD. This would decrease the API gravity of the commingled hydrocarbons, resulting in a price increase for the commingled lease production.

Inlet to Heater

Dual Gallup (oil)-Dakota (gas) Well



