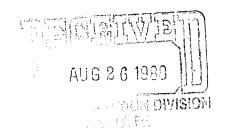


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375 U.S. Highway 64
Farmington, New Mexico 87401
Telephone (505) 325-3587

August 23, 1988

Mr. William J. LeMay N. M. Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87501-2088

Re: Navajo Indian #6 (FED1420603768) 1700' FNL & 910' FWL Section 6, T26N-R8W San Juan County, New Mexico

Dear Mr. LeMay:

Union Texas Petroleum is applying for a downhole commingling order for the referenced well in the Basin Dakota/Blanco Mesaverde fields. Ownership of the two fields to be commingled is common. The Bureau of Land Management and the offset operators indicated in the attached plats will receive notification of this proposed downhole commingling.

The subject well was drilled and completed during September, 1964 in both the Dakota and Mesaverde formations. The Dakota formation was fracture stimulated with 85,000# sand in 134,000 gallons water and 40 tons CO_2 . The Mesaverde formation was fracture stimulated with 100,000# sand in 74,000 gallons water and 40 tons CO_2 . CAOF of the Dakota zone (10/15/64) was 4829 MCFD, and the Mesaverde zone (10/22/64) was 11,997 MCFD. The Dakota zone is currently averaging less than 10 MCFD and less than 0.1 barrels of oil and water per day. The Mesaverde averages 150 MCFD and \pm 0.5 barrels of oil and water per day.

The Dakota is no longer economic to continue operating alone. The proposed commingling of the Dakota with the Mesaverde will result in recovery of additional hydrocarbons from the Dakota formation, thereby preventing waste, and will not violate correlative rights. Commingling of the two zones will result in a more efficient operation by eliminating one tubing string, one metering facility, extra paperwork, pumper's time, and allow the Mesaverde gas to help lift the small amount of Dakota liquids.

The fluids from the Mesaverde and Dakota zones have been shown to be compatible from many wells in the San Juan Basin already approved for commingling. The Mesaverde and Dakota were similarly commingled in the Navajo Indian B #5M (1745' FNL & 870' FWL, Section 30, T27N-R8W), an offset to the north of the subject well, as per Administrative Order No. DHC-381. The very small amount of liquids produced from the

subject well will be similar to this offset well. That analysis indicated that the total value of crude will not be reduced by the commingling. The fluids from each zone are compatible and no precipitates will be formed as a result of commingling to damage either reservoir. The calculated static bottom hole pressure, based on surface pressure and fluid measurements, is 426 psi in the Mesaverde and 565 psi in the Dakota (adjusted to a common datum of sea level), well within the limits of Rule 303-C, Section 1(b), Part (6). Current flow tests indicate the daily liquid production will not exceed the limit of Rule 303-C, Section 1(a), Parts (1) and (3).

The Division Aztec District Office will be notified any time the commingled well is shut in for seven consecutive days. To allocate the commingled production to each zone, Union Texas Petroleum will consult with the supervisor of the Aztec District Office and determine an allocation for each of the producing zones.

Included with this letter are two plats showing ownership of offsetting leases, a production curve of each zone, Form C-116 (GOR test), and a wellbore diagram showing the proposed downhole configuration after commingling.

Yours truly,

S. G. Katirgis

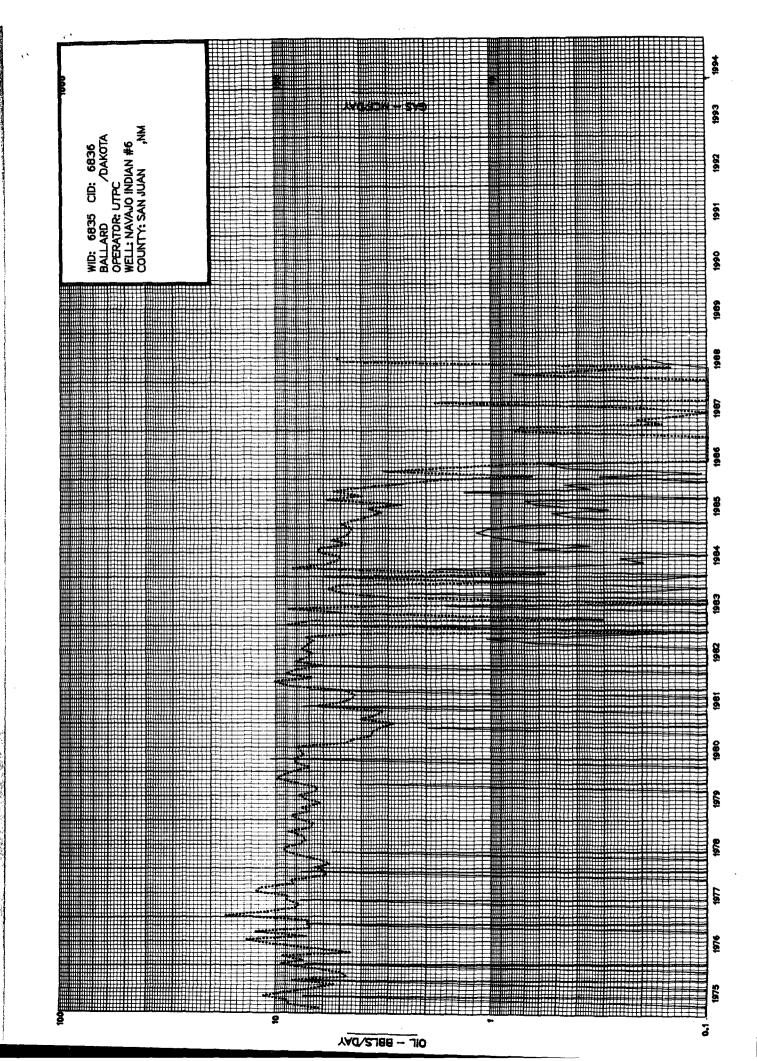
Production Engineer

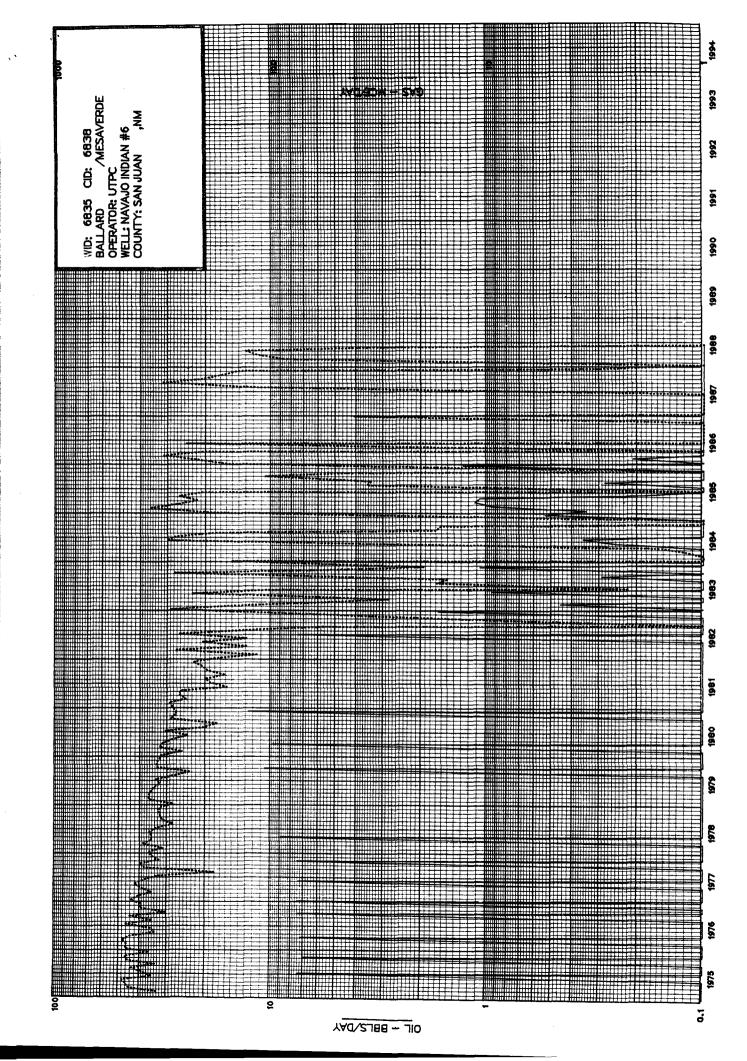
SGK: lmg attachments

cc: NMOCD - Aztec

M. R. Herrington

W. K. Cooper





OFFSET PRODUCERS DAKOTA HVERFANITO U. 78 STATE COM D 5 10/64,760, -20, -7/67, 182,0 32 6,0 31 UNIT 86 2166,1488,75 BOLACK B 5 STATE COM EG NAVAJO CZ 5/67, 382,0 ×//////// 9/67, 52, -8/66, 1089, 72 9,0 7, -17, **TENNECO** S. U. EXPL. CO **TENNECO** STARR 3-PFA UNIT 90 NAVAJO INDIAN 6 3165,244, -1/66, 1160,26 NEWSOM B BE 12,0 12/64,871,10 18,0 1/83,148,20 5 2,,3 UNIT 87 1/66,1456,75 NAVAJO INDIAN GE 13,.3 NEWSOM BIL NEWSOM BILE 2183,64,10 NEWSOM 88 1,0 **MERIDIAN** 6185,128,95 8166, 431, 35 3164,740,30 2,1 9,1 11,0 NEWSOM 67 MERIDIAN NEWSOM BID 3/64,662,40 8166, 530, 30 13,0 UNIT 91 9,,.1 NEW SOM B9 1/66,978,50 12,1 4165, 1167, 75 17,.5 12 **MERIDIAN** ELE GU LITH E 2 NEWSOM BTE UNIT 92 NEWSOM BIDE 2167, 2409,72 4184, 205, 90 9/81,114,20 1/66,685,50 NEWSOM 89E 31, .1 4, 2 8,.1 3182, 130, 70 4,,7

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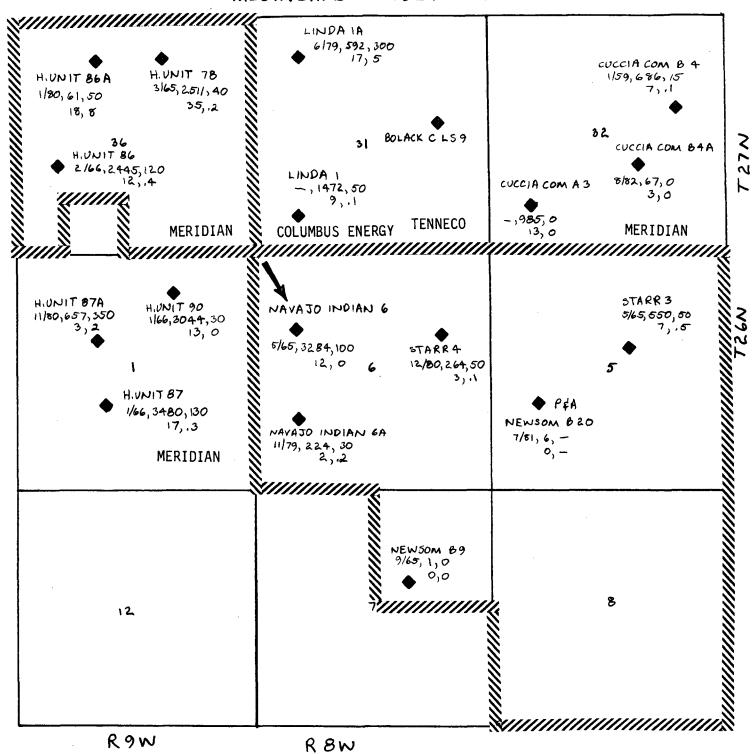
LEGEND

DATE 1ST PROD., CUM GAS (MMCF), CAPACITY (MCFD)
CUM OIL (MBO), CAPACITY (BOPD)

UNION TEXAS PETROLEUM ACREAGE
SUBJECT WELL

R9W

MESAVERDE OFFSET PRODUCERS



LEGEND

DATE 1ST PROD., CUM GAS (MMCF), CAPACITY (MCFD)
CUM OIL (MBO), CAPACITY (BOPD)

UNION TEXAS PETROLEUM ACREAGE SUBJECT WELL

UnionTexas Petroleum

SUBJECT:	NAVAJO	INDIAN	#6	
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WE.	LLBORE	DIAGRA	<u>M-Co</u>	MM/NGLEC
BY:	G-K	(DATE:	2-22-88

PAGE _____ OF ____

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NEW MEXICO OIL CONSERVATION COMMISSION GAS-OIL RATIO TESTS

C-116 Fowtsert 1-12-6

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Union Texas Petroleum				ВТал	CO ME	Blanco Mesaverde/Basin Dakota	asin	Dakota			San	San Juan				
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Navajo Indian (Mesaverde)	9	ш	9	26N	M8	8-22-88			380		24			.5	150	300,000
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No well will be assigned an allowable greater than the amount of oil produced on the official teat.	vable great	ler than	the amo	unt of ol	l produc	ed on the offici	ul test.					l he	reby ce	ertify tha	it the abo	I hereby certify that the above information

During gas-olf ratio test, each well shall be produced at a rate not exceeding the top unit 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 allowables when authorized by the Commission,

is true and complete to the best of my know-

ledge and belief.

Gas volumes must be reported in MCF measured at a pressure base of 15,025 pala 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 Kule 301 and appropriate pool rules.

(Signature)
Production Engineer



375 U.S. Highway (4) Farmington, New Mexico 87401 Telephone (505) 325-3587

August 23, 1988

Operations Manager Southern Union Exploration Co. P. O. Box 2179 Farmington, NM 87499

Gentlemen:

Union Texas Petroleum Corporation is in the process of applying for a downhole commingling order for our Navajo Indian #6 well located 1700' FNL & 910' FWL in Section 9, T26N-R8W, San Juan County, New Mexico in the Blanco Mesaverde and Basin Dakota.

This is to notify you of such action as our records indicate that you are owner and operator of acreage which adjoins the area in which the downhole commingling is requested. If you have no objection to the proposed downhole commingling order, we would appreciate your signing the attached copy of this letter and returning it to this office.

Your prompt attention to this matter would be appreciated.

Very truly yours,

S. D. Katirgs

S. G. Katirgis

Production Engineer

SGK: lmg attachment

The	above	downhole	commingling	request	is	hereby	approved:
			·				



375 U.S. Highway 64 Farmington, New Mexico 87403 Telephone (505) 325-3587

August 23, 1988

Operations Manager Tenneco Oil Company P. O. Box 3249 Englewood, CO 80155

Gentlemen:

Union Texas Petroleum Corporation is in the process of applying for a downhole commingling order for our Navajo Indian #6 well located 1700' FNL & 910' FWL in Section 9, T26N-R8W, San Juan County, New Mexico in the Blanco Mesaverde and Basin Dakota.

This is to notify you of such action as our records indicate that you are owner and operator of acreage which adjoins the area in which the downhole commingling is requested. If you have no objection to the proposed downhole commingling order, we would appreciate your signing the attached copy of this letter and returning it to this office.

Your prompt attention to this matter would be appreciated.

Very truly yours,

S. G. Katirgis Production Engineer

SGK: lmg attachment

The	above	downhole	commingling	request	is	hereby	approved:
				r			

Union Texas Petroleum



375 U.S. Flighway (4 Farmington: Trew Mexico 8740) Telephone (505) 325-3587

August 23, 1988

Operations Manager Columbus Energy Corporation P. O. Box 2038 Farmington, NM 87499

Gentlemen:

Union Texas Petroleum Corporation is in the process of applying for a downhole commingling order for our Navajo Indian #6 well located 1700' FNL & 910' FWL in Section 9, T26N-R8W, San Juan County, New Mexico in the Blanco Mesaverde and Basin Dakota.

This is to notify you of such action as our records indicate that you are owner and operator of acreage which adjoins the area in which the downhole commingling is requested. If you have no objection to the proposed downhole commingling order, we would appreciate your signing the attached copy of this letter and returning it to this office.

Your prompt attention to this matter would be appreciated.

Very truly yours,

S. G. Katirgis
Production Engineer

SGK: lmg attachment

The above	downhole	commingling	request	is	hereby	approved:
						

375 U.S. Flighway 64 Farmington, New Mexico 8740 Telephone (505) 325-358

August 23, 1988

Operations Manager Meridian Oil Company 3535 East 30th Street Farmington, NM 87401

Gentlemen:

Union Texas Petroleum Corporation is in the process of applying for a downhole commingling order for our Navajo Indian #6 well located 1700' FNL & 910' FWL in Section 9, T26N-R8W, San Juan County, New Mexico in the Blanco Mesaverde and Basin Dakota.

This is to notify you of such action as our records indicate that you are owner and operator of acreage which adjoins the area in which the downhole commingling is requested. If you have no objection to the proposed downhole commingling order, we would appreciate your signing the attached copy of this letter and returning it to this office.

Your prompt attention to this matter would be appreciated.

Very truly yours,

S. G. Katirgis
Production Engineer

SGK: lmg attachment

The above downhole commingling request is hereby approved:



STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION AZIEC DISTRICT OFFICE

1001 DIO DIAZOS DOAD AZTEC, NEW MEXICO 07410 (505) 334-6178

OIL CONSERVATION DIVISION BOX 2088 SANTA FE, NEW MEXICO 87501		
DATE 8-26-88		
RE: Proposed MC	AUG 29 1965 OIL CONSERVATION GRAPE SAUTA FE	
Gentlemen:		
I have examined the application dated	8-26-88	
for the Lines Texas Fetroleum Con Operator Le	p. Navajo Indian#6	E-6-26N-E. Unit, S-T-R
and my recommendations are as follows:		
Approve		
Yours truly,		
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243		