

# State of New Mexico



JIM BACA  
COMMISSIONER



## Commissioner of Public Lands

October 29, 1985

P.O. BOX 1148  
SANTA FE, NEW MEXICO 87504-1148  
Express Mail Delivery Uses  
310 Old Santa Fe Trail  
Santa Fe, New Mexico 87501

Marathon Oil Company  
P. O. Box 2409  
Hobbs, New Mexico 88240

Re: Surface Commingling  
Weir Blinebry - Eumont Gas Pool  
State of New Mexico Lease No. A-3071  
Your Hansen State Lease No. 164  
Sec. 16-20S-37E  
Lea County, New Mexico

ATTENTION: Mr. Thomas F. Zapatka

Gentlemen:

This office is in receipt of your letters of October 16, 1985 and October 24, 1985, wherein you have requested our approval to surface commingle production from the Hansen State Well No. 4 which is classified as a gas well in the Eumont Gas Pool and the Hansen State Well No. 5 which is producing from the Weir Blinebry Pool.

You are hereby given approval to the above request. It is our understanding that these wells will be commingled at the Hanson State Battery located in the NE/4 of Section 16, Township 20 South, Range 37 East. The Commissioner of Public Lands reserves the right to amend or withdraw this approval at his discretion if it is against the best interest of the State of New Mexico. Our approval is subject to like approval by the New Mexico Oil Conservation Division.

Enclosed is an approved copy for your files.

If we may be of further help please do not hesitate to call on us.

Very truly yours,

JIM BACA  
COMMISSIONER OF PUBLIC LANDS

BY: *Ray D. Graham*  
RAY D. GRAHAM, Director  
Oil and Gas Division  
AC 505/827-5744

JB/RDG/pm  
encls.

cc: OCD-Santa Fe, New Mexico  
OGAD-Santa Fe, New Mexico  
State Lease No. A-3071

*Return October 30, 1985*

*cc: ep*

Houston Division  
Production Operations, United States



P.O. Box 2409  
Hobbs, New Mexico 88240  
Telephone 505/393-7106

October 16, 1985

State of New Mexico  
Energy & Minerals Dept.  
Oil Conservation Division  
Attention: Division Director  
P. O. Box 2088  
Santa Fe, NM 87501

*PC*  
*Rule 303(B)*  
*Weir Blinebry - Eumont Gas Pool*

Re: Surface Commingling (Weir Blinebry - Eumont Gas Pool)  
Hansen State Lease, Sec. 16, T20S, R37E, Lea County, New Mexico

Gentlemen:

Marathon Oil Company requests administrative approval to surface commingle production from the above referenced pools on the Hansen State lease. There are only two producing wells on this lease. The Hansen State Well No. 4 is classified a gas well in the Eumont Pool. It produces 3 BOPD, 60 MCFPD and 30 BWPD. Gravity of the oil produced is 35° at 60°F API. The Hansen State Well No. 5 is producing from the Weir Blinebry Pool at a rate of 20 BOPD, 85 BWPD, and 74 MCFPD. Gravity of the produced oil is 36.9° at 60°F API. The Hansen State Well No. 5 was temporarily abandoned prior to its recompletion to the Blinebry in September 1985.

The expected combined gravity of the liquid hydrocarbon is estimated at 36.6° API at 60°F. The value of this combined fluid will not be any different than each one singly. The value is estimated at \$28.06 per barrel.

Production from each well will be allocated according to monthly well tests.

Enclosed is a plat showing the Hansen State lease and the two wells in question. Also a schematic of the tank battery is attached to this letter. Laboratory analysis of the produced water is enclosed for your information.

If any additional information is necessary, please contact this office. Thank you.

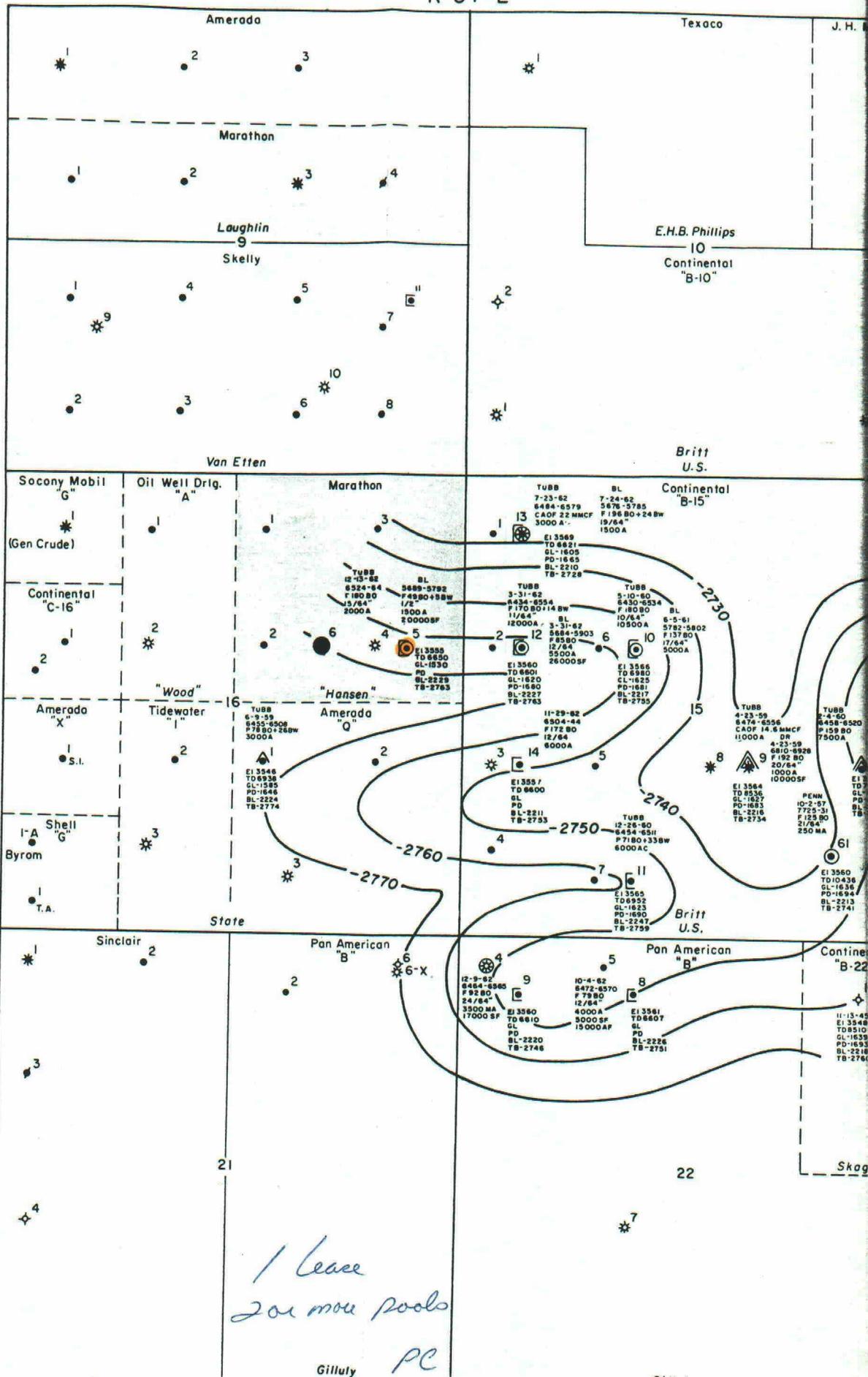
Sincerely,

A handwritten signature in cursive script, appearing to read 'Thomas F. Zapatka'.

Thomas F. Zapatka  
Production Engineer

TFZ:lbp

Enclosures (3)

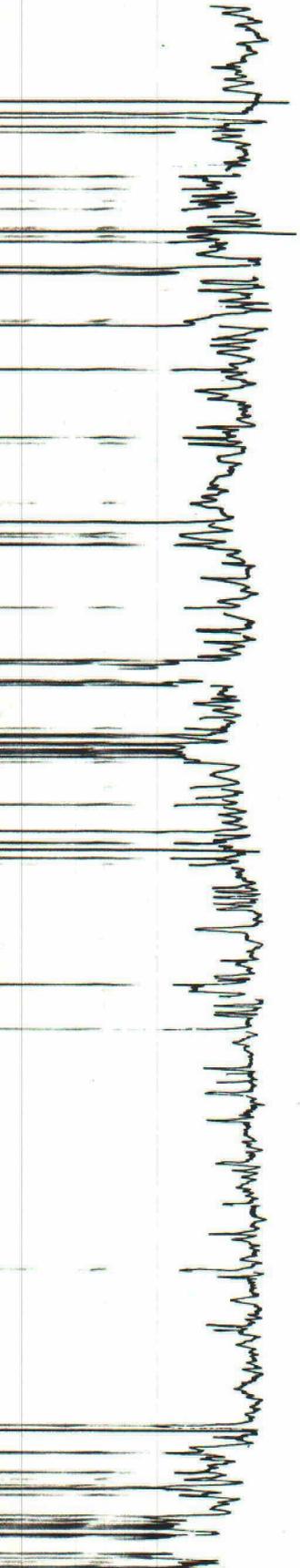


T 20 S

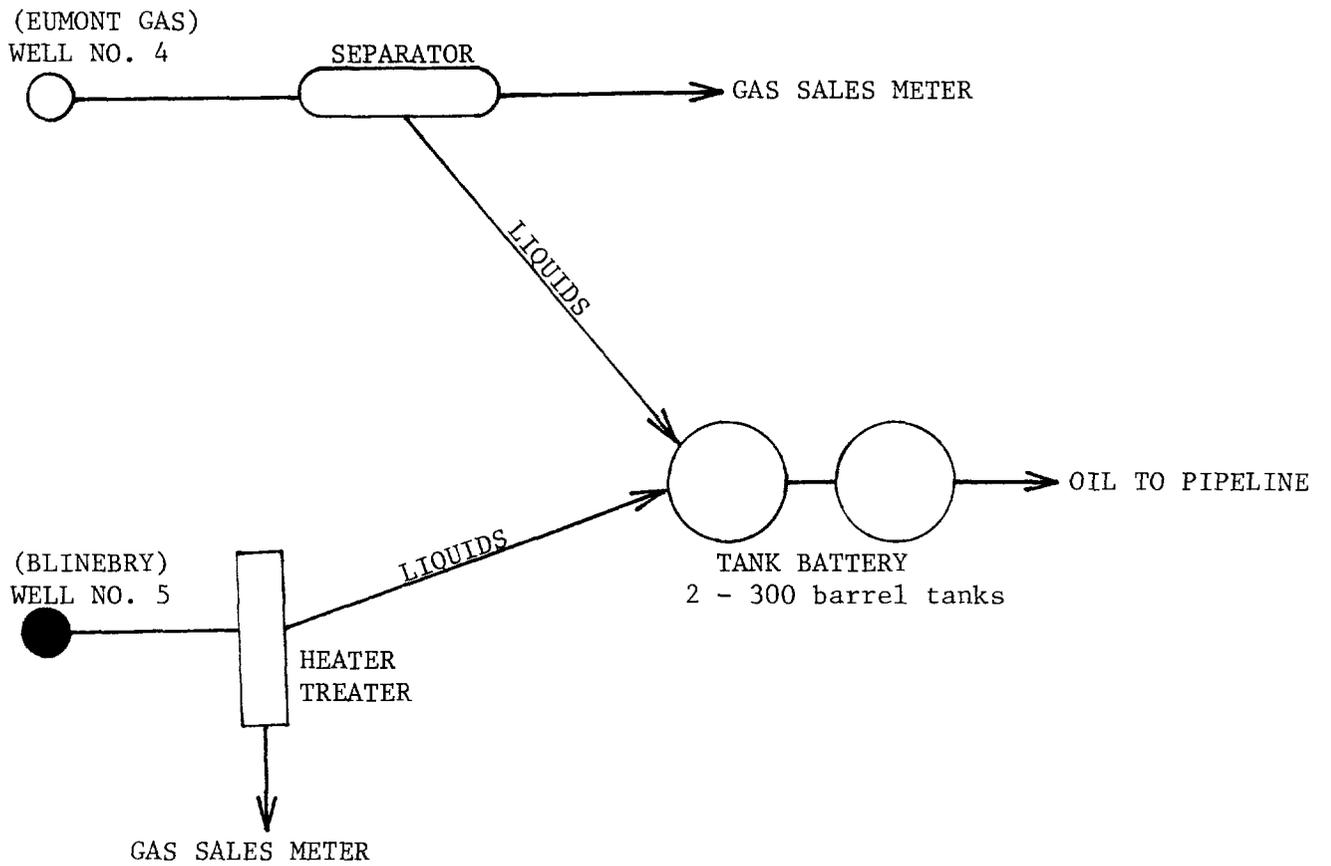
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1 Lease  
 200 more pools  
 Gilluly PC



HANSEN STATE LEASE  
Lea County, New Mexico



UNICHEM INTERNATIONAL

707 NORTH LEECH

P.O. BOX 1499

HOBBS, NEW MEXICO 88240

COMPANY : MARATHON OIL COMPANY

DATE : 09/17/85

FIELD, LEASE & WELL : HANSON STATE BATTERY

SAMPLING POINT: HEATER TREATER Well #4

DATE SAMPLED : 09/16/85

SPECIFIC GRAVITY = 1.007

TOTAL DISSOLVED SOLIDS = 10894

PH = 7.35

		ME/L	MG/L
CATIONS			
CALCIUM	(CA)+2	7.3	146.
MAGNESIUM	(MG)+2	33.6	409.
SODIUM	(NA), CALC.	139.	3216.

ANIONS			
BICARBONATE	(HCO3)-1	25.6	1562.
CARBONATE	(CO3)-2	0	0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	3.3	158.
CHLORIDES	(CL)-1	152	5400

DISSOLVED GASES			
CARBON DIOXIDE	(CO2)	NOT RUN	
HYDROGEN SULFIDE	(H2S)	NOT RUN	
OXYGEN	(O2)	NOT RUN	
IRON(TOTAL)	(FE)		.7
BARIUM	(BA)+2	.02	1.4
MANGANESE	(MN)	NOT RUN	

IONIC STRENGTH (MOLAL) = .204

SCALING INDEX	TEMP
	30C
	86F
CARBONATE INDEX	.250
CALCIUM CARBONATE SCALING	LIKELY
CALCIUM SULFATE INDEX	-36.
CALCIUM SULFATE SCALING	UNLIKELY

HALLIBURTON DIVISION LABORATORY

HALLIBURTON SERVICES

MIDLAND DIVISION

HOBBS, NEW MEXICO 88240

LABORATORY WATER ANALYSIS

No W85-529

To Marathon

Date 9-12-85

This report is the property of Halliburton Company and neither it nor any part thereof nor a copy thereof is to be published or disclosed without first securing the express written approval of laboratory management; it may however, be used in the course of regular business operations by any person or concern and employees thereof receiving such report from Halliburton Company.

Submitted by Tom Zapata Date Rec. \_\_\_\_\_

Well No Hanson Est. #5 Depth \_\_\_\_\_ Formation \_\_\_\_\_

County \_\_\_\_\_ Field Monument Source \_\_\_\_\_

Resistivity 0.08 @ 75°F

Specific Gravity 1.070 @ 60°F

pH 6.2

Calcium (Ca) 6300 \*MPL

Magnesium (Mg) 3600

Chlorides (Cl) 60,000

Sulfates (SO<sub>4</sub>) mod

Bicarbonates (HCO<sub>3</sub>) 420

Soluble Iron (Fe) light

API Gravity 36.9 @ 60°F

Remarks: \_\_\_\_\_ \*Milligrams per liter

Respectfully submitted,

Analyst: Lee Hisey

HALLIBURTON COMPANY

cc:

By [Signature]  
CHEMIST

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