



**Marathon  
Oil Company**

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

July 25, 1984

State of New Mexico  
Oil Conservation Division  
Attention Division Director  
P. O. Box 2088  
Santa Fe, NM 87501

Re: Rule 303C - Downhole Commingling the McCallister State Well No.  
6 in the Glorieta and the Blinebry Formations.

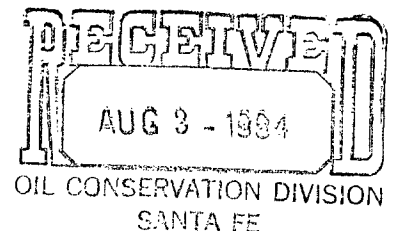
Dear Sir:

Marathon Oil Company requests permission to downhole commingle production on the McCallister State Well No. 6. The legal description for the well is 1650' FSL and 660' FWL, Unit L, Section 25, Township 17 South, Range 34 East, Lea County, New Mexico. The well was once a dual completion under Administrative Order PC-136 and produced from the Blinebry formation from perforations at 6587' - 6719' and from the Glorieta formation from perforations at 5968' - 6017'.

The Blinebry formation was temporarily abandoned in August of 1971 and the Glorieta formation has produced singly since that time. In June of 1984 the Otis W.A. packer between the Glorieta and Blinebry formations was milled out and pushed to the bottom of the hole below the Blinebry perforations.

Attached is a form C-116 which shows the recent production from these two formations. The total production from the two formations will be approximately 25 BOPD and 129 BWPD. The gravity of the two oils is nearly identical, the Blinebry formation was 35.3° API and the Glorieta formation was 36.6° API. Therefore, the value of the commingled oil will not be reduced by commingling and the ownership of the two formations are the same. The bottom hole pressures from the 72 hour buildups show to be for the Blinebry formation 418 psi at a depth of 6450' and for the Glorieta formation 224 psi at a depth of 5977'. The ground level elevation for the well is 4009'.

Letters have been sent to all offset operators notifying them of the proposed commingling. A copy of one of the letters is attached. Also attached are copies of the water analysis on the two formations in



State of New Mexico  
Oil Conservation Division  
Page 2

question and production decline curves for the past 5 years. It should be noted that the production decline curve for the Blinbry formation is prior to temporarily abandoning.

If any further questions or comments should arise, please contact this office.

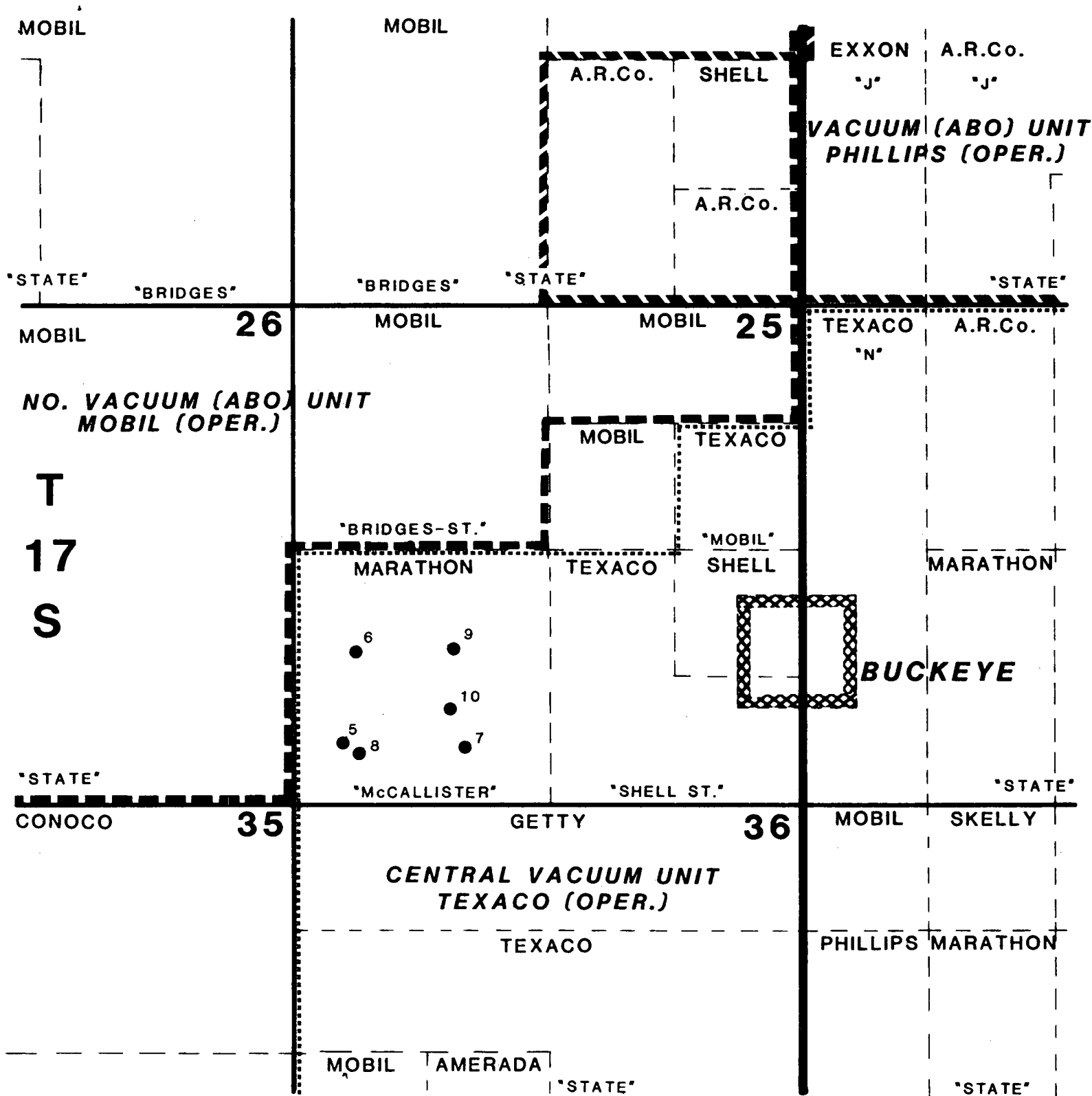
Sincerely,

A handwritten signature in dark ink, appearing to read "C. C. Saathoff", with a stylized flourish at the end.

Calvin C. Saathoff  
Operations Superintendent

SAP:lp

Enclosures



**R 34 E**

**MARATHON OIL COMPANY  
VACUUM FIELD  
McCALLISTER STATE LEASE  
LEA COUNTY, NEW MEXICO**



STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION  
P. O. BOX 2038  
SANTA FE, NEW MEXICO 87501

Form C-116  
Revised 10-1-78

GAS-OIL RATIO TESTS

Operator		Pool		County										
Marathon Oil Company		Vacuum Blinbry and Glorieta		Lea										
Address				Type of Test		Completion		Special						
P. O. Box 2409 Hobbs, NM 88240				TEST - (X)		Scheduled <input type="checkbox"/>		Special <input checked="" type="checkbox"/>						
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOW-ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU.FT/BBL	
		U	S	T						R	WATER BBLs.	PROD. OIL BBLs.		GAS M.C.F.
Blinbry McCallister State	6	L	25	17S	34E	6-24-84	P		24	14	35.3	6	60	10,000
Glorieta McCallister State	6	L	25	17S	34E	7-14-84	P		24	115	36.6	19	77	4,053

No well will be assigned an allowable greater than the amount of oil produced on the official test.

During gas-oil 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 35 percent. Operator is encouraged to take advantage of this 35 percent tolerance in order that well can be assigned increased allowable when authorized by the Division.

Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia 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.

Well original and one copy of this report to the district office of the New Mexico Oil Conservation Division in accordance with Rule 301 and appropriate pool rules.

I hereby certify that the above information is true and complete to the best of my knowledge and belief.

Steven A. Pohler / *Steven A. Pohler*  
(Signature)

Production Engineer

(Title)  
July 24, 1984

(Date)



**Marathon  
Oil Company**

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

July 9, 1984

Getty Oil Company  
Two Midland National Center  
Midland, TX 79702

Attn: Operations Manager

Re: Marathon Oil Company - McCallister State Well No. 6  
Unit L, Section 25, Township 17-South, Range 34-East  
Lea County, New Mexico

Dear Sir:

Marathon Oil Company is requesting permission from the Oil Conservation Division to downhole commingle production in the aboved referenced well. The McCallister State Well No. 6 is presently dually completed in the Vacuum Glorieta and the Blinebry formations. Combined production from this well will average approximately 32 BOPD and 140 BWPD.

If you have no objection to this request, please sign the waiver at the bottom of this letter and return it to my attention. If you have any further questions, please contact this office. Thank you.

Sincerely,

*Steven A. Pohler*

Steven A. Pohler  
Production Engineer

SAP:lp

-----  
This is to acknowledge that the undersigned waives objection to the downhole commingling as proposed by Marathon Oil Company in this letter.

GETTY OIL COMPANY  
\_\_\_\_\_  
Company

*John Howard*  
\_\_\_\_\_  
Company Representative

July 13, 1984  
\_\_\_\_\_  
Date

District Engineer  
\_\_\_\_\_  
Title

## HALLIBURTON DIVISION LABORATORY

HALLIBURTON SERVICES

MIDLAND DIVISION

HOBBS, NEW MEXICO 88240

## LABORATORY WATER ANALYSIS

No. W84-522

To Marathon Oil CompanyDate 7-14-84Box 2409Hobbs, New Mexico

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 \_\_\_\_\_ Date Rec. 7-13-84Well No. McAllister St. #6 Depth \_\_\_\_\_ Formation Glorietta

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

Resistivity \_\_\_\_\_ 0.058 @ 75°F.Specific Gravity \_\_\_\_\_ 1.134pH \_\_\_\_\_ 6.6Calcium (Ca) \_\_\_\_\_ 2,400 \*MPLMagnesium (Mg) \_\_\_\_\_ 780Chlorides (Cl) \_\_\_\_\_ 122,000Sulfates (SO<sub>4</sub>) \_\_\_\_\_ 3,140Bicarbonates (HCO<sub>3</sub>) \_\_\_\_\_ 440Soluble Iron (Fe) \_\_\_\_\_ Nil

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

Respectfully submitted,

Analyst: Brewer

cc:

HALLIBURTON COMPANY  
By W. L. Brewer  
CHEMIST

## NOTICE

THIS REPORT IS LIMITED TO THE DESCRIBED SAMPLE TESTED. ANY USER OF THIS REPORT AGREES THAT HALLIBURTON SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE, WHETHER IT BE TO ACT OR OMISSION, RESULTING FROM SUCH REPORT OR ITS USE.

Marathon Oil Co.

7-14-84

McAllister State #6

Glorietta Formation

API Gr. of Oil @ 60°F. - 36.6

RECEIVED  
OCT 10 1984  
MARATHON OIL CO.  
[Signature]

Marathon Oil Company

7-14-84

McAllister St. #6

Blinebry Formation

API Gr. of Oil @ 60°F.      -    35.3



## HALLIBURTON DIVISION LABORATORY

HALLIBURTON SERVICES

MIDLAND DIVISION

HOBBS, NEW MEXICO 88240

## LABORATORY WATER ANALYSIS

No. W84-523To Marathon Oil CorporationDate 7-14-84Box 2409Hobbs, New Mexico 88240

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 \_\_\_\_\_

Date Rec. 7-13-84Well No. McAllister State #6 Depth \_\_\_\_\_Formation Blinebry

County \_\_\_\_\_ Field \_\_\_\_\_

Source \_\_\_\_\_

Resistivity 0.052 @ 74°F.Specific Gravity 1.174pH 6.1Calcium (Ca) 23,200

\*MPL

Magnesium (Mg) 7,260Chlorides (Cl) 161,000Sulfates (SO<sub>4</sub>) 990Bicarbonates (HCO<sub>3</sub>) 60Soluble Iron (Fe) Nil

Remarks: \_\_\_\_\_

\*Milligrams per liter

Respectfully submitted, \_\_\_\_\_

Analyst: Brewer

cc: \_\_\_\_\_

HALLIBURTON COMPANY

By W. L. Brewer  
CHEMIST

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Marathon Oil Company

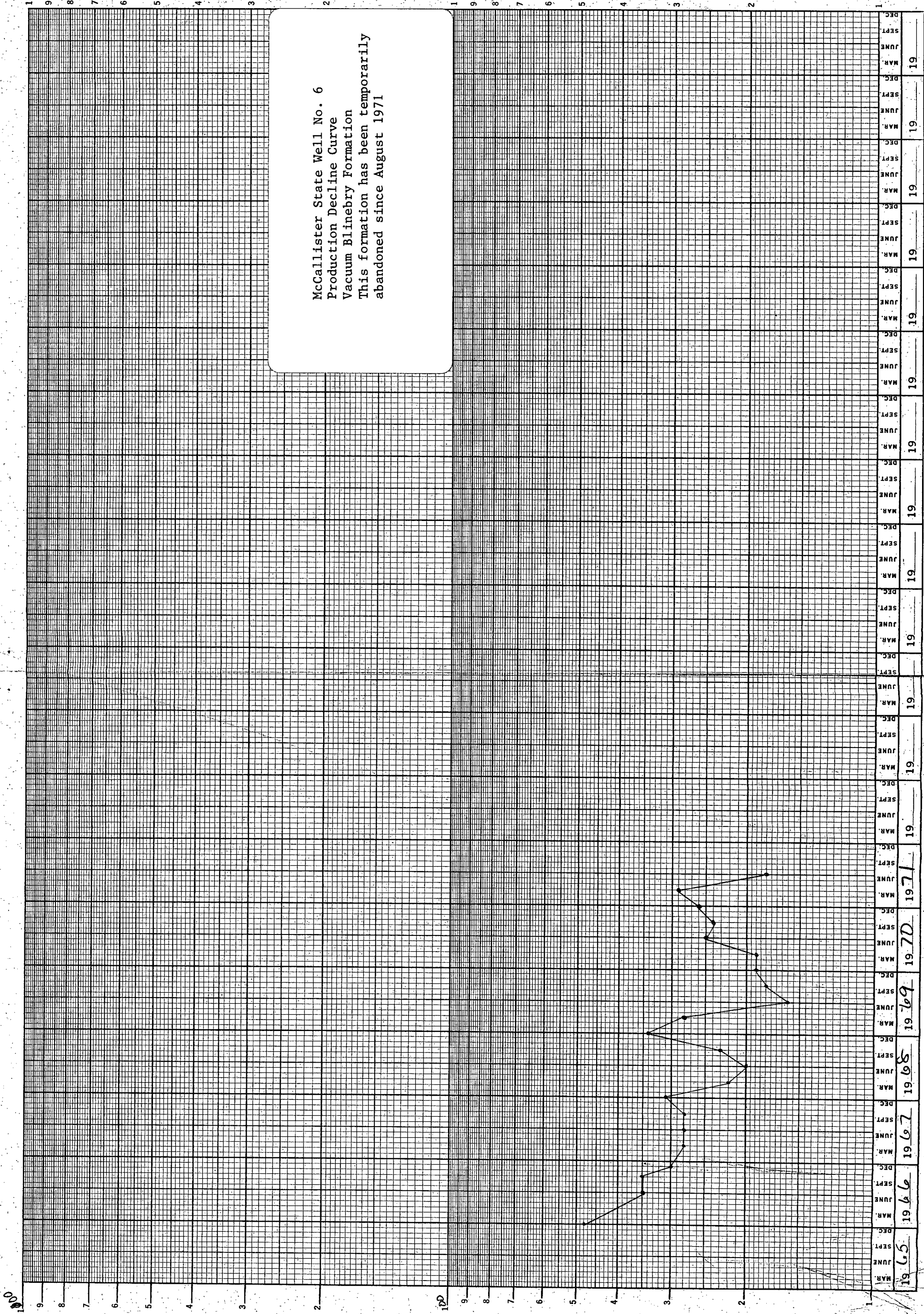
McAllister St. #6

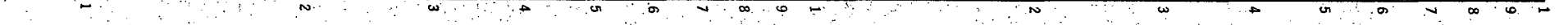
Blinebry Formation

7-14-84

API Gr. of Oil @ 60°F.

- 35.3







STATE OF NEW MEXICO  
**ENERGY AND MINERALS DEPARTMENT**  
OIL CONSERVATION DIVISION  
HOBBS DISTRICT OFFICE

August 7, 1984

TONY ANAYA  
GOVERNOR

POST OFFICE BOX 1980  
HOBBS, NEW MEXICO 88240  
(505) 393-6161

*DHC-515*  
OIL CONSERVATION DIVISION  
P. O. BOX 2088  
SANTA FE, NEW MEXICO 87501

RE: Proposed:

MC	_____
DHC	_____ X _____
NSL	_____
NSP	_____
SWD	_____
WFX	_____
PMX	_____

Gentlemen:

I have examined the application for the:

Marathon Oil Co.	McCallister State	No. 6-L	25-17-34
Operator	Lease & Well No.	Unit	S-T-R

and my recommendations are as follows:

O.K.-----J.S.

Yours very truly,

Jerry Sexton  
Supervisor, District 1

/mc

