

Houston Division
Production Operations, United States



P.O. Box 2490
Hobbs, New Mexico 88240
Telephone 505/393-7106

January 6, 2000

Mr. David Catanach
Oil Conservation Department
Energy and Minerals Department
P.O. Box 2088
Santa Fe, New Mexico 87501

RE: **Request for Allocation Change
on DHC #2506
Bertha Barber Well No. 16
Unit Letter K, 2140' FSL & 1650' FWL
Section 5, T-20-S, R-37-E
Monument Tubb & Monument Abo
Monument Field
Lea County, New Mexico**

Dear Mr. Catanach:

Marathon Oil Company requests administrative approval to change the production allocation on the DHC #2506 permit in the above subject well from the Monument Tubb & Monument Abo pools in Lea County, New Mexico.

Bertha Barber Well No. 16 was drilled in the summer of 1997. The Abo was perforated and acidized. Production since 1997 until now has been from the Abo. A casing leak was discovered in September 1999 and a RBP was set above the Abo perfs to isolate them. The casing leak was repaired. Perforations were then added to the Tubb and the new perfs were stimulated with acid and a sand frac. The RBP will soon be removed and the Tubb and Abo will be DHC. Rod pumping equipment will be utilized to keep the PBHP as low as possible, preventing crossflow.

The Monument Tubb production (oil and gas) in Bertha Barber Well No. 16 was significantly lower than was predicted in the original Down-Hole Commingling application. Enclosed is pertinent data supporting the change in production allocation for the Tubb and Abo. If additional information is necessary, please contact me at (505) 393-7106, ext 201.

Sincerely,

A handwritten signature in cursive script, appearing to read 'Thomas P. Kacir'.

Thomas P. Kacir
Production Engineer

Enclosure

A handwritten signature in cursive script, appearing to read 'C. H. I.'.

REQUEST FOR EXCEPTION TO RULE 303-A

Bertha Barber Well No. 16

Monument Field

A: Operator

Marathon Oil Company
P.O. Box 2490
Hobbs, New Mexico 88241

B: Lease Name and Well Number

Bertha Barber Well No. 16
Unit Letter K, 2140' FSL & 1650' FWL
Section 5, T-20-S, R-37-E
Lea County, New Mexico
Monument: Monument Tubb, Monument Abo Pools

C: C-116's

Attached

D: Production Decline Curves

Expected Decline Curves are Attached

E: Production Allocation

<u>POOL</u>	<u>BOPD</u>	<u>MCFD</u>	<u>BWPD</u>	<u>Estimated Methods</u>
Monument Tubb	35	50	0.8	Post-Workover Test (oil & gas)
Monument Abo	<u>35</u>	<u>126</u>	<u>0.5</u>	Pre-Workover Test (oil & gas)
Total	70	176	1.3	water is average
<u>Allocated Percentages</u>	<u>Oil %</u>	<u>Gas %</u>	<u>Water %</u>	
Monument Tubb	50	28.4	62	
Monument Abo	<u>50</u>	<u>71.6</u>	<u>38</u>	
Total	100	100	100	

Submit 2 copies to Appropriate
District Office.
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240
DISTRICT II
811 S. 1st Street, Artesia, NM 88210-2834
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-116
Revised 1/1/89

OIL CONSERVATION DIVISION

2040 Pacheco St.
Santa Fe, NM 87505

GAS - OIL RATIO TEST

Operator Marathon Oil Company		Pool Monument; Tubb & Abo		County Lea										
Address P.O. Box 2490 Hobbs, NM 88241		TYPE OF TEST - (X) ☒ Scheduled ☐ Completion		Special ☒ X										
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 CUFT/BBL	
		U	S	T						R	WATER BBL.S.	GRAV. OIL		OIL BBL.S.
Bertha Barber Monument Tubb	16	K	5	20	37	1/02/00	P	TP=300 CP=45		24	0	35	50	1750
Monument Abo						8/22/99	P	TP=180 CP=28		24	0	35	126	3600

Instructions:

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 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 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.

(See Rule 301, Rule 1116 & appropriate pool rules.)

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

Thomas P. Kacir
Signature

Thomas P. Kacir
Printed name and title

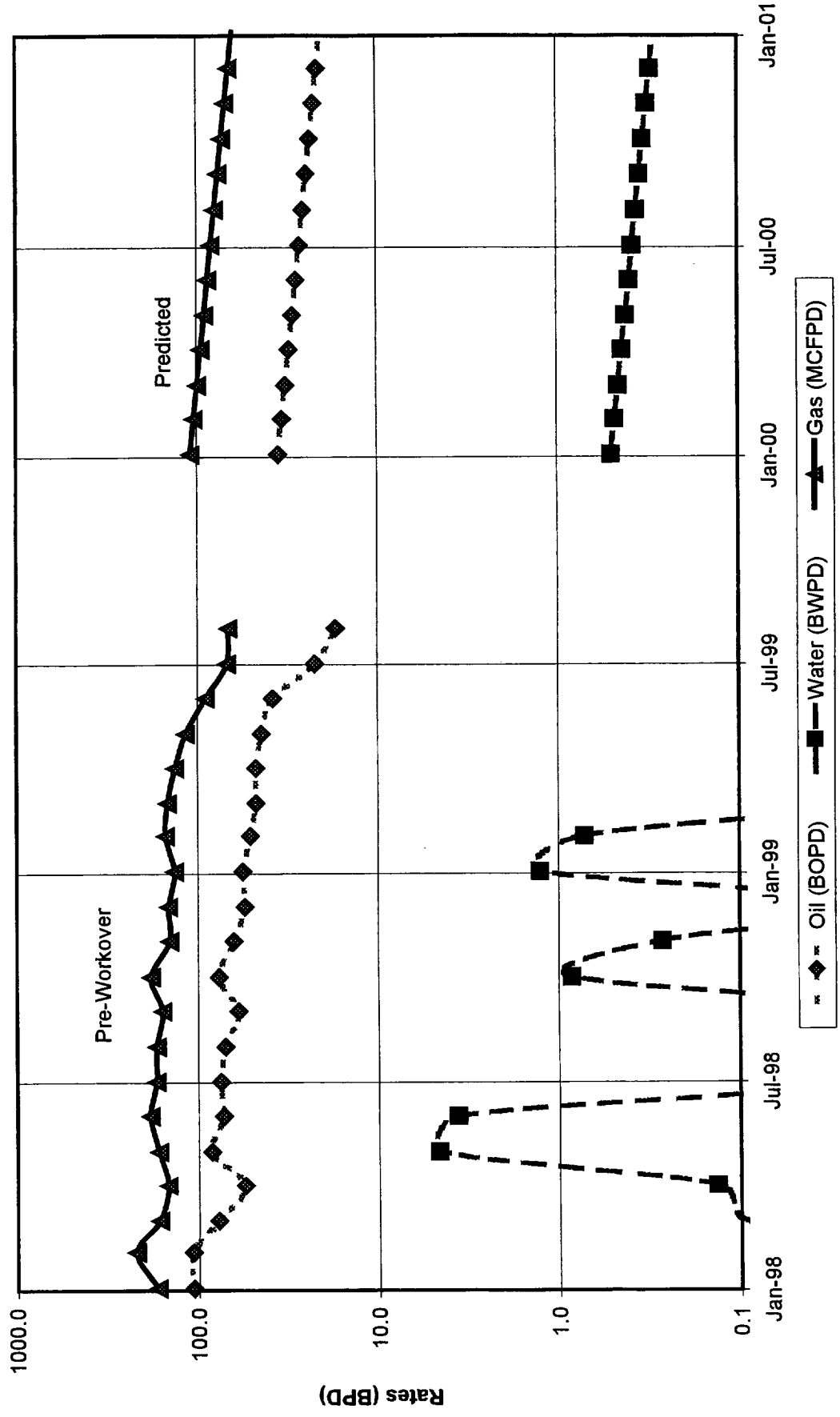
Production Engineer

1/06/2000
Date

393-7106
Telephone No.

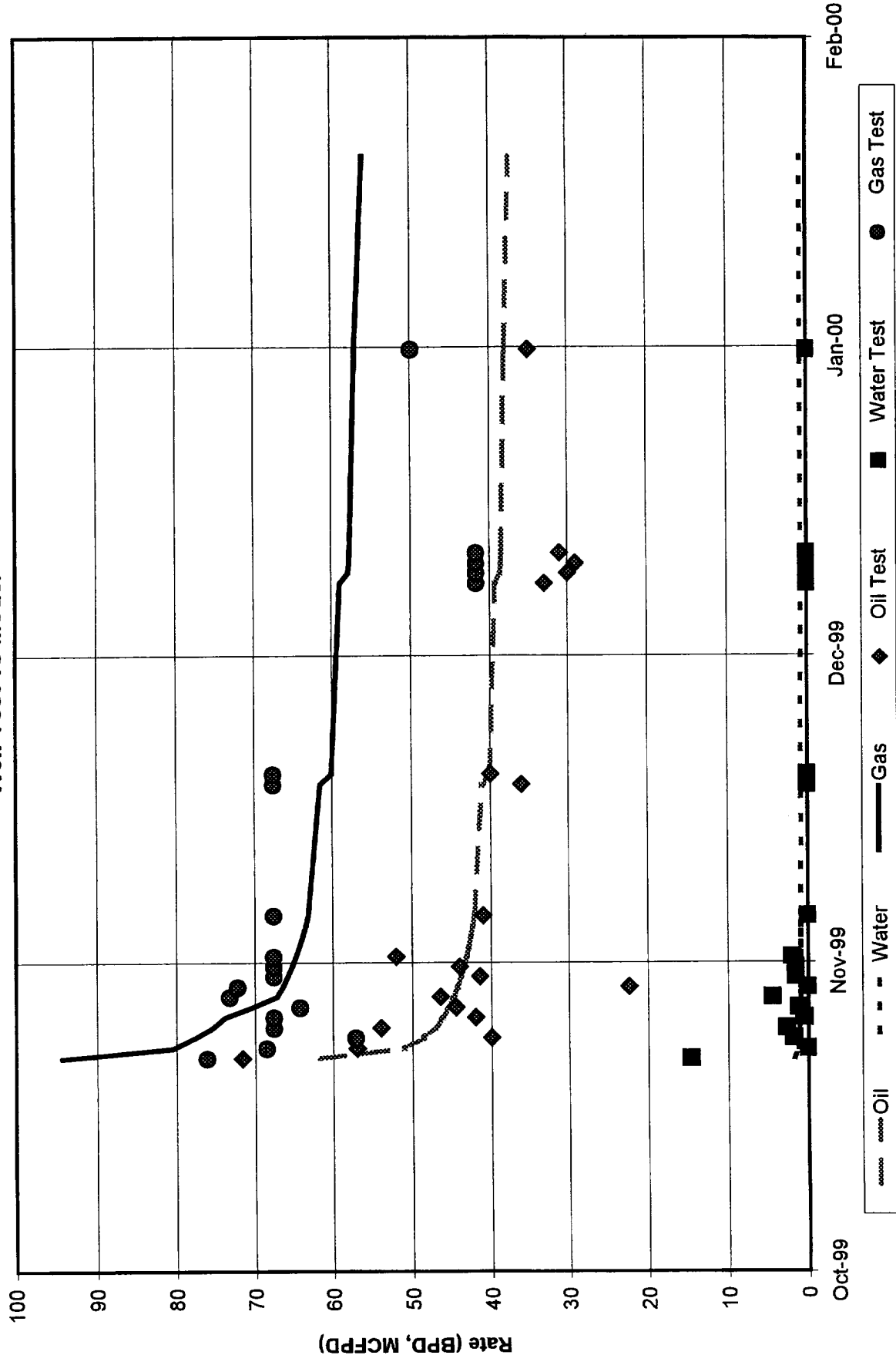


Bertha Barber Well No. 16 Monument Abo Production



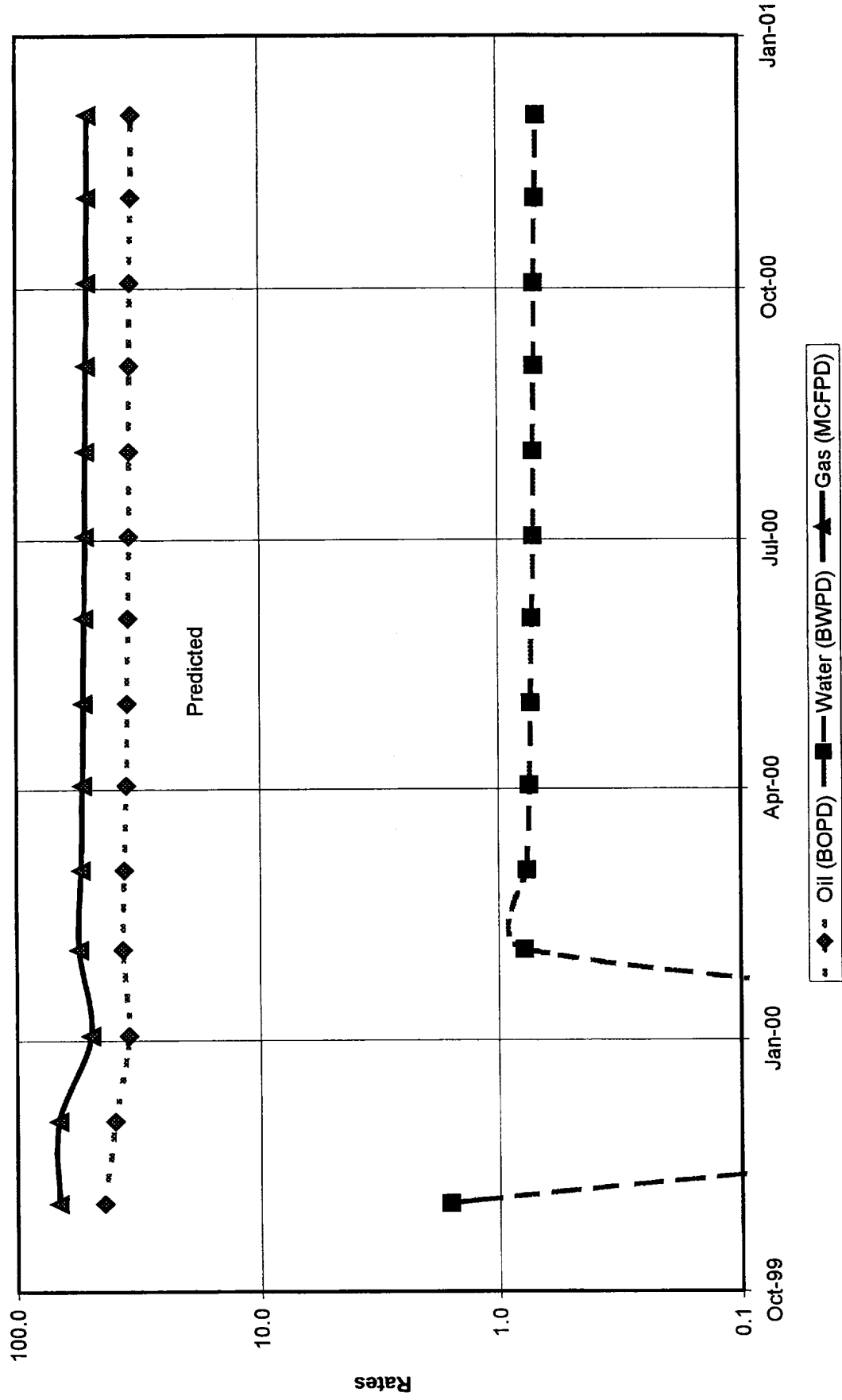


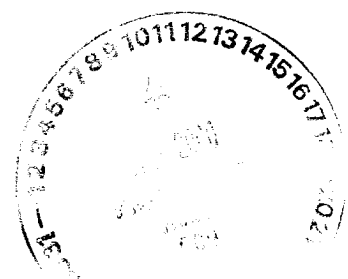
Bertha Barber Well No. 16 Tubb Pool Production Well Test vs Model





Bertha Barber Well No. 16 Monument Tubb





Bertha Barber Well No. 16 Expected Post Workover Abo & Tubb Production

