AMEND DHC 1/31/00

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 JAN 10 2000

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,

Thomas P. Kacir Production Engineer

Thomas P. Kast

Enclosure

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

POOL	BOPD	MCFD	BWPD	Estimated Methods
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

Allocated Percentages	Oil %	Gas %	Water %
Monument Tubb	50	28.4	62
Monument Abo	_50	<u>71.6</u>	<u>38</u>
Total	100	100	100

State of New Mexico Energy, Minerals and Natural Resources Department OIL CONSERVATION DIVISION 2040 Pacheco St. Santa Fe, NM 87505

> DISTRICT II
> 811 S. 1st Street, Artesia, NM 88210-2834 DISTRICT I P.O. Box 1980, Hobbs, NM 88240 DISTRICT III

Submit 2 copies to Appropriate

District Office.

1000 Rio Brazos Rd., Aztec, NM 87410

Revised 1/1/89 Form C-116

GAS - OIL RATIO TEST

Operator						Pool						8	County			
Marathon 011 Company				İ			Mon	ument:	Monument; Tubb & Abo	1 00					Lea	
Address P.O. Box 2490 Hobbs, NM 88241	241						TYPE OF TEST - (X)	بــ (×	Scheduled		ŏ	Completion		Sp	Special X	
	WEI	_	Γο	LOCATION		DATFOF		YOKE	 	DAILY	LENGTH		PROD. DU	PROD. DURING TEST	1. 1	GAS-OIL
L.EASE NAME	N O	>	S	-	8	TEST	TATS	SIZE	PRESS.	ALLOW-	TEST HOURS	WATER BBLS.	GRAV.	BBLS.	GAS M.C.F.	CU.FT/BBL
Bertha Barber	16	~	ഹ	8	37									,		
Monument Tubb			,			1/02/00			TP=300		24	0		35	20	1750
									CP=45	-						
															1	
Monument Abo						8/22/99	<u>a</u>		TP=180		24	0		35	126	3600
									07=40							
									,							

Instructions:

which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool 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.)

Production Engineer I hereby certify that the above information is true and complete to the best of my knowledge and belief. Komen P. Kiren Thomas P. Kacir Signature

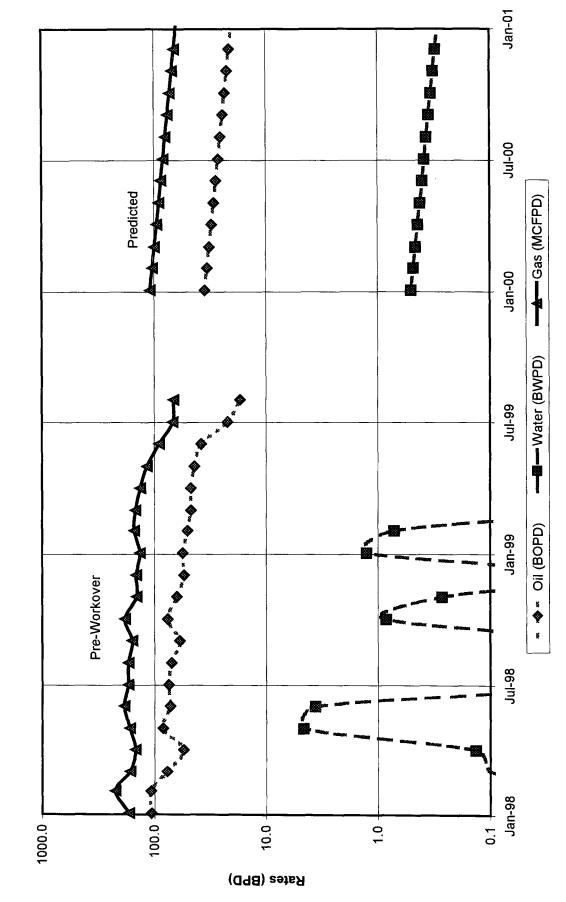
Printed name and title

1/06/2000 Date

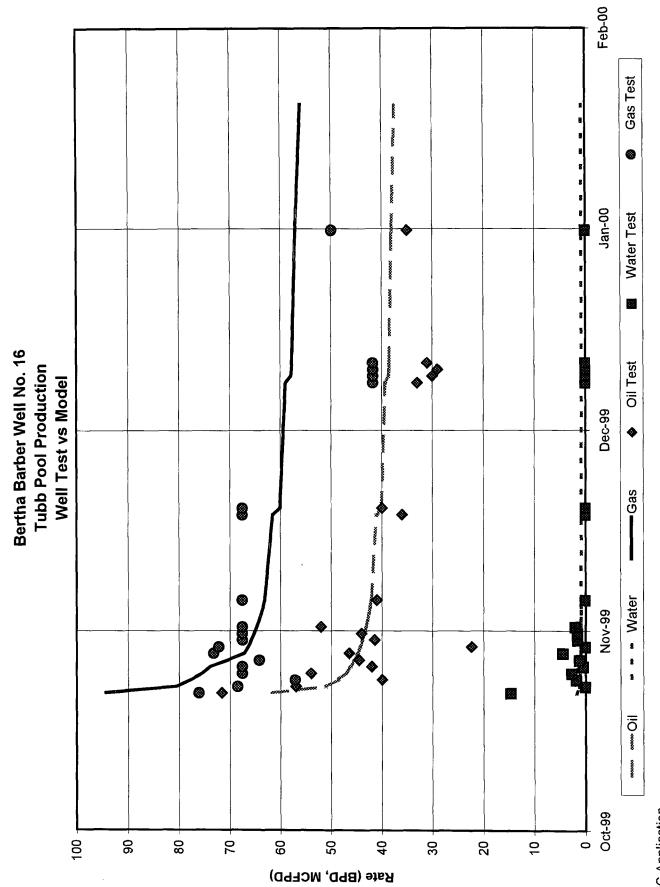
393-7106

Telephone No.

Bertha Barber Well No. 16 Monument Abo Production



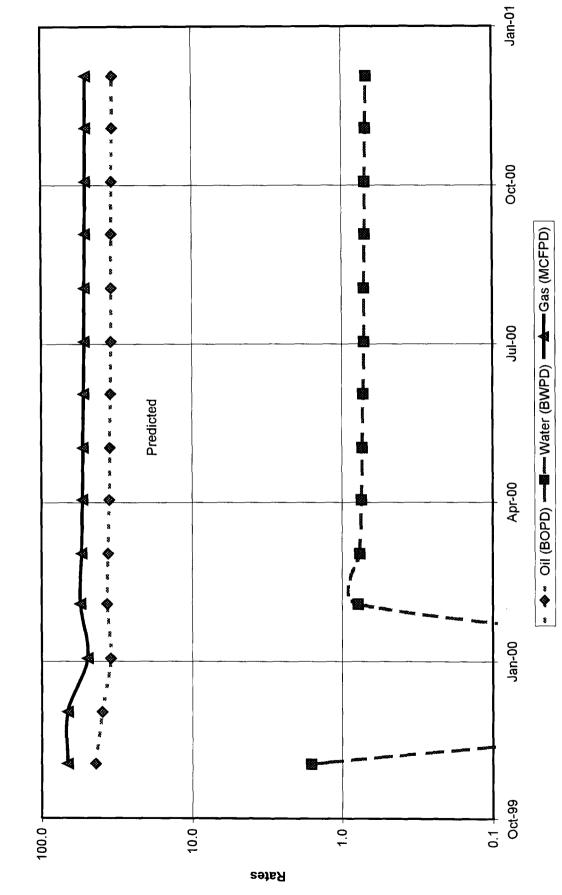
DHC Application UL 'K', Sec 5, T-20-S, R-37-E



DHC Application UL 'K', Sec 5, T-20-S, R-37-E

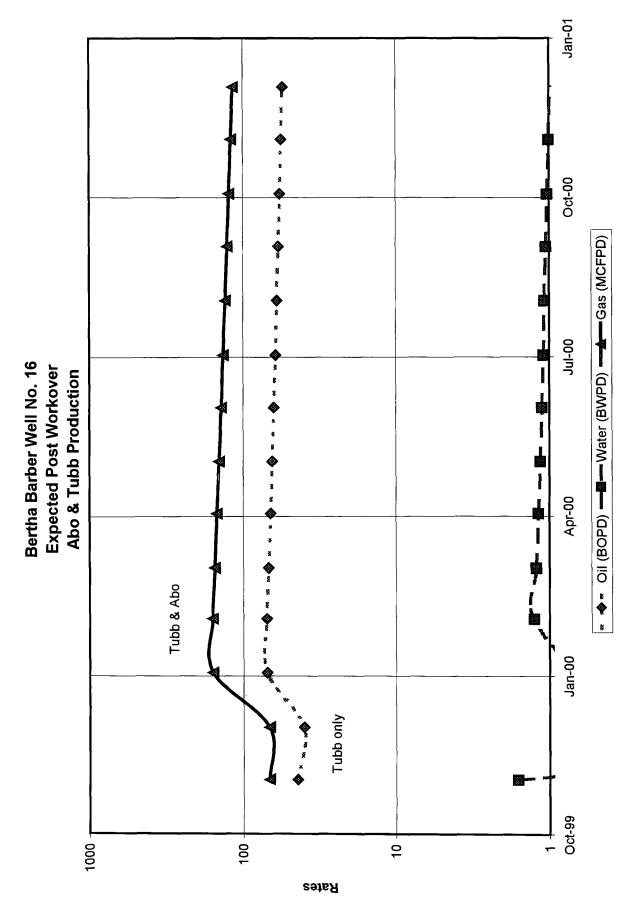
Monument Abo, Tubb

Bertha Barber Well No. 16 Monument Tubb



DHC Application UL 'K', Sec 5, T-20-S, R-37-E

Monument Abo Tubb



DHC Application UL 'K', Sec 5, T-20-S, R-37-E

Monument Abo Tubb



STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

GOVERNOR 10 / b

POST OFFICE BOX 1980 HOBBS, NEW MEXICO 88241-1980 (505) 393-6161

e e			
OIL CONSERVATION DIVISION P. O. BOX 2088 SANTA FE, NEW MEXICO 87501			
RE: Proposed: MC DHC NSL NSP SWD WFX PMX			
Gentlemen:			
I have examined the application of the land of the lan	Bertha Barber Lease & Well No. Unit	#16-K.5-2Ds.37e API 30.025-3391	ڄ
and my recommendations are	as follows:	•	•
OK. B			
Yours very truly,	<i>4</i>		

/ed

Chris Williams Supervisor, District 1