

Gulf Oil Exploration and Production Company

October 30, 1978

DHC - 265

Due - 11/27/78

R. C. Anderson
PRODUCTION MANAGER, HOBBS AREA

P. O. Box 670
Hobbs, NM 88240

NOV - 6 1978

Oil Conservation Division
Santa Fe

Re: Vivian No. 10, 800FNL & 2250FEL;
Section 30-22S-38E;
Vivian No. 11, 660FNL & 990FEL,
Section 30-22S-38E, Lea County, N.M.
Request Administrative Approval
to Down-Hole Commingle Wantz
Granite Wash & Drinkard Pools

Mr. Joe D. Ramey
State of New Mexico
Energy & Minerals Dept.
Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

Dear Sir:

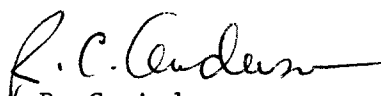
Your administrative approval is requested for an exception to Rule 303-A to permit downhole commingling of production in the subject wells from the Wantz Granite Wash and the Drinkard Pools (commingled in surface storage by Administrative Order PC-486 dated 9-24-74). Production from the same two pools is presently being commingled downhole in Coquina Oil Corporation's Vivian #1, (located in Unit F, Section 30-22S-38E). There is no evidence of fluid incompatibility and we do not expect any reservoir damage due to downhole commingling in the well bore in No. 10 and 11 wells. Ownership of the two pools is common and correlative rights will not be violated.

Currently, wells No. 10 and 11 each utilizes a dual pumping unit installation. If downhole commingling is permitted, the existing pumping equipment on the Wantz Granite Wash will be utilized to lift the fluids from the two commingled zones. We propose to tube the well through the Wantz Granite Wash zone and keep the well pumped down to prevent crossflow between the two zones.

If downhole commingling is permitted, Gulf will consult with the Supervisor of the Hobbs District Office of the Commission to determine an allocation formula.

Additional information concerning this application as outlined in Rule 303-C is attached for your consideration.

Yours very truly,


R. C. Anderson

LBI:cwh
Att'd.

cc: See attached sheet



A DIVISION OF GULF OIL CORPORATION

cc: New Mexico Oil Conservation Commission
Box 1980
Hobbs, New Mexico 88240

Texaco Inc.
Box 728
Hobbs, New Mexico

Coquina Oil Corporation
400 N. Marienfield
Drawer 2960
Midland, Texas 79702

Western Oil Producers Inc.
Box 2055
Roswell, New Mexico 88201

C. F. Kalteyer
Gulf Oil Exploration and Production Co.
Box 1150
Midland, Texas 79701

1. Operator: Gulf Oil Corporation, Box 670, Hobbs, N.M. 88240
2. Lease & Well No.: Vivian #10, Unit B, 800' FNL & 2250' FEL, Section 30-22S-38E, Lea County, New Mexico
3. Pools Dualled: Drinkard & Wantz Granite Wash, OCC Administrative Order MC-2257, Dated 6-15-76
4. Decline Curves: Attached
5. Bottom Hole Pressure Data: Both zones in the subject well are artificially lifted.
Drinkard: Datum -3029; Pressure at Datum 722 psi*
Wantz Granite Wash: Datum -4021; Pressure at Datum 898 psi*
*Estimates based on most recent available BHP data within vicinity of well and fluid level test.
6. Fluid Characteristics: Drinkard & Wantz Granite Wash are presently being commingled downhole in Coquina Oil Corporation's Vivian #1. There has been no evidence of fluid compatibility.
7. Well History: Well #10 was drilled to a total depth of 7588, with 7" production casing set at 7588. Current plug back total depth is 7573'. On 5-19-76 the 7" casing was perforated 4, ½" JHPF in the Wantz Granite Wash interval 7392-98 and the well was stimulated by acidizing with 2,000 gallons 15% NEHCL acid and fracturing with 25,000 gallons gelled lse oil with 1-3# 20-40 SPG. After isolating the Wantz Granite Wash perms, the 7" casing was perforated 4, ½" JHPF on 9-1-76 in the Drinkard interval 6310-6496 and stimulation was by acidizing with 2500 gallons NEHCL and fracturing with 38,000 gallons gelled water with 1-3# 20-40 SPG. On 10-20-76 both zones potentialled as follows: Wantz Granite Wash 270 BOPD, trace water - flowing; Drinkard 19 BOPD, 12BWPD-flowing. Both zones were equipped to pump on 3-3-77.
8. Value of Commingled Fluids: Drinkard & Wantz Granite Wash production are presently being surface commingled on Gulf's Vivian lease, per Administrative Order PC-486 dated 9-24-74. Since production is already being commingled on the surface, downhole commingling will not affect the price.
9. Current Production Tests: See attached C-116.
10. All offset operators have been notified by a copy of this application.

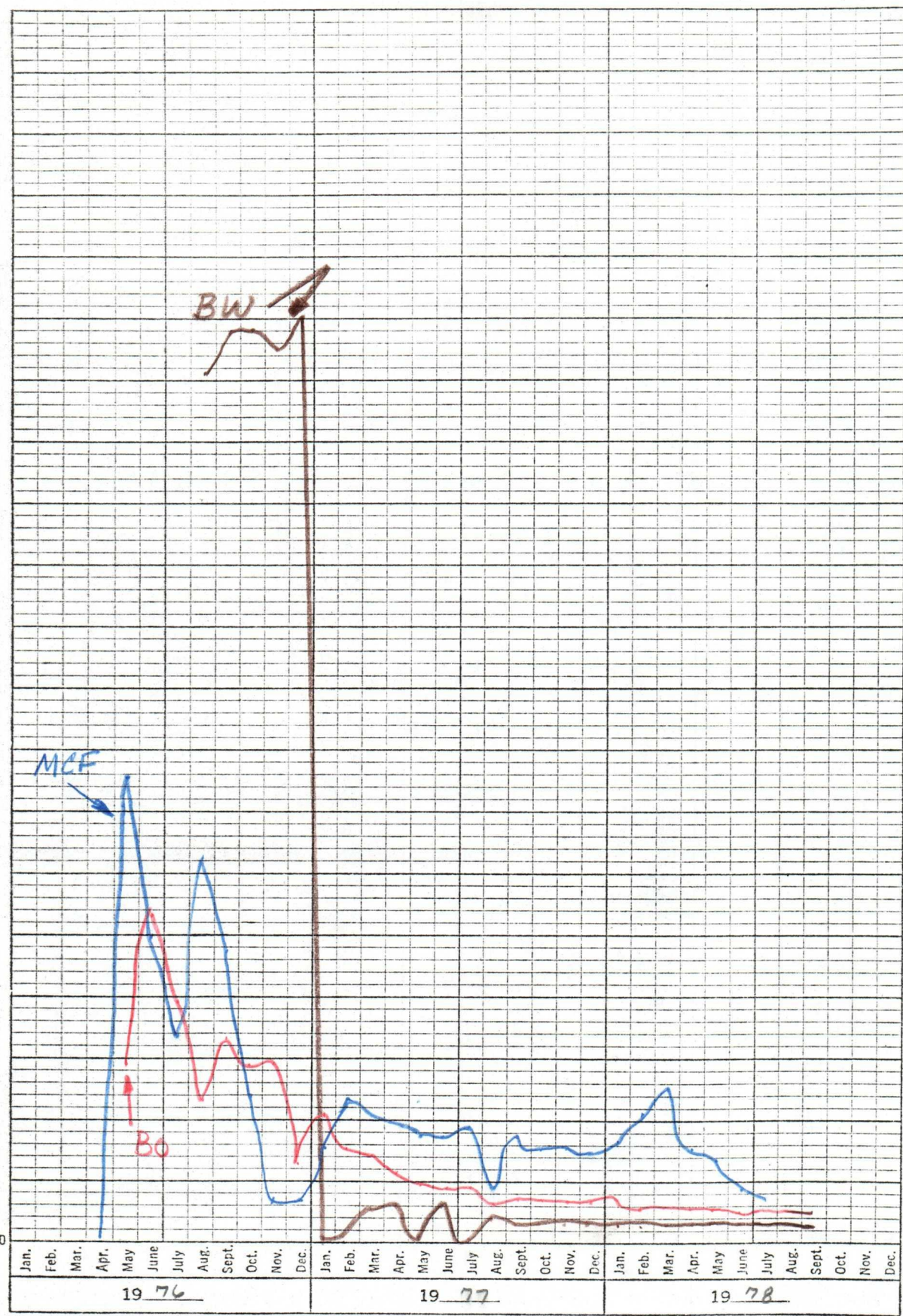
Texaco, Box 728, Hobbs, New Mexico 88240
Coquina Oil Corporation, 400 N. Marienfield, Drawer 2960, Midland, Texas 79702
Western Oil Producers Inc., Box 2055, Roswell, New Mexico 88201

LBI:mlr
10-30-78

Lease/well Vivian #10
 Pool Wantz Granite Wash

BW
 per
 Month

BO
 \$
 MCF
 per
 month



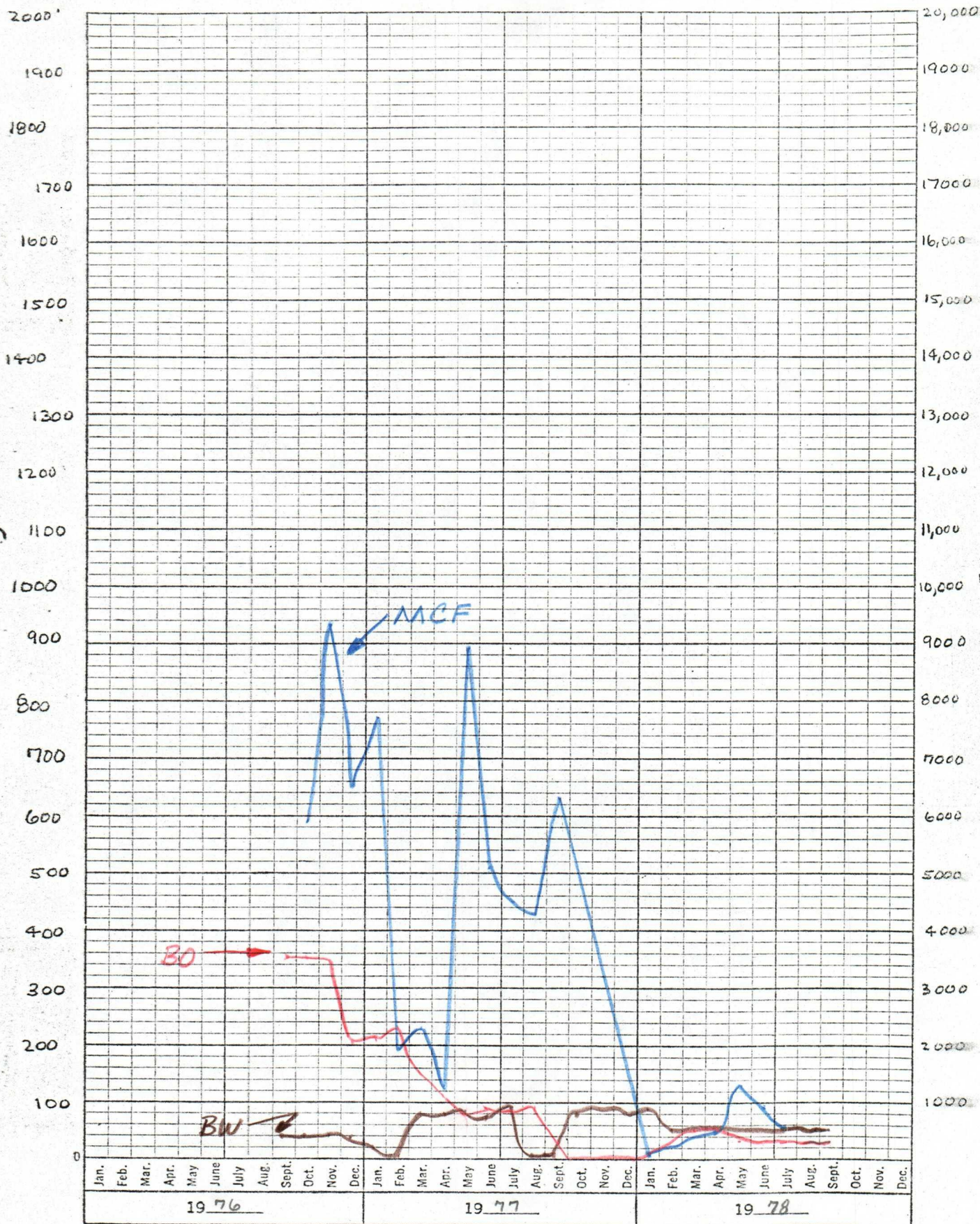
3 YEARS BY MONTHS 359-180
 X 100 DIVISIONS
 KEUFFEL & ESSER CO. MADE IN U.S.A.

Lease/well Vivian #10
Pool Drinkard

BBL
per
Month

MCF
per
month

3 YEARS BY MONTHS 359-180
X 100 DIVISIONS
KEUFFEL & ESSER CO. MADE IN U.S.A.



NEW MEXICO OIL CONSERVATION COMMISSION
GAS-OIL RATIO TESTS

Call: 6
Revised 1-1-65

Operator Gulf Oil Corporation		Pool Wantz Granite Wash		County Lea	
Address P.O. Box 670 Hobbs, New Mexico				TEST - (X)	
LEASE NAME				TYPE OF TEST - (X)	
WELL NO.	LOCATION			CHOKE SIZE	TBG. PRESS.
	U	S	T		
DATE OF TEST	P	2" W	30	DAILY ALLOWABLE	LENGTH OF TEST MINS.
Vivian	10	B	30	22	38
GAS - OIL RATIO					5222

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 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowable when authorized by the Commission.

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 Commission 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.

[Signature]
Well Tester
10-30-78 (Title)

Cell: 5
Received 1-1-53

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

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 Commission in accordance with Rule 303 and appropriate pool rules.

W. Schumann
Well Tester (Signature)
10-30-78 (Date)

Lease Vivian Well No. 10 Pool Drk & W.G.W.
UNIT B
Location 800 ENL & 2250 FEL, Sec 30-22S-38E County Lea State State

GLE:3362

KOB: 3374

H = 11.60

Initial Comp. Date: 9-20-76

Producing Formation: WGW

S.S.
200 jts. 2 3/8" 4.70# EUE BRD
J-55 +bg.
SN@ 6268'
1-jt 2 3/8" ditto w/ Beveled Couplings
Baker "J" Latch
Baker P.S.A. @ 6300'

Zone	Comp. Date	Date Aband
7392-98	9-20-76	
6310-6496	9-20-76	

9 5/8" OD 36 # Grade K-55

Set @ 1194' w/ 350 sxs

Top of Cmt @ surface, circ by: ?

DV@
2808

L.S.
203jt 2 3/8" OD 4.70# EUE BRD J-55
1- Baker P.S.A. @ 6300'
34 jts ditto +bg
1- Mod FL on-off seal connector w/
1.87" ID Profile
#81-32 Mod. E Anchor seal assy.
#84-32 Mod. O. Pkr @ 7740'.

Treatment History: (Current Zone)
(5-19-76) Perf'd 7392-98. acidized w/ 2000

gal. 15% HCL. Frac w/ 25,000 gal gelled
lsc oil & 30,000# sand.

POT 270 BOPD FLg. (sept 20, 1976)

(9-1-76) Perf'd 6310-6496. Acidized w/ 2500

gal. & frac w/ 38,000 gal gelled wtr & 50,000#
sand. POT 1980PD, 123WPD FLg. (sept 29, 1976)

(3-3-77) Both zones equipped to pump

Baker Parallel
string anchor @ 6300'

6310-12 4-1/2" JHPF
6350-52 Drinkard
6391-93
6455-57
6494-96

Baker Mod. "O" pkr @ 7740'

7392-98 4-1/2" JHPF
Wont2 Granite Wash

7" OD 23 # Grade K-55
N-80

Set @ 7588' w/ 2175 sxs

Top of Cmt @ surface, circ by: 50sx

① 525sx Howco Lite + 375sx
CL & neat. Circ. out 35sx
thru OV

② Thru OV w/ 1200sx Howco Lite
+ 75sx CL & neat circ 50sx

Producing History:

Formation:

Month or Year	Oil	Wtr	Gas

Last Test Dated: See attached C-116's

BOPD

BHPD

FL: Calc. Ppg. EFF:

Cum. Oil Cum. Gas

Remarks and Recommendation:

Prepared By: L.B. Ivanhoe

Date: 10-30-78

$\frac{d}{dt} \left(\frac{\partial L}{\partial \dot{x}} \right) = \frac{\partial L}{\partial x}$

1000

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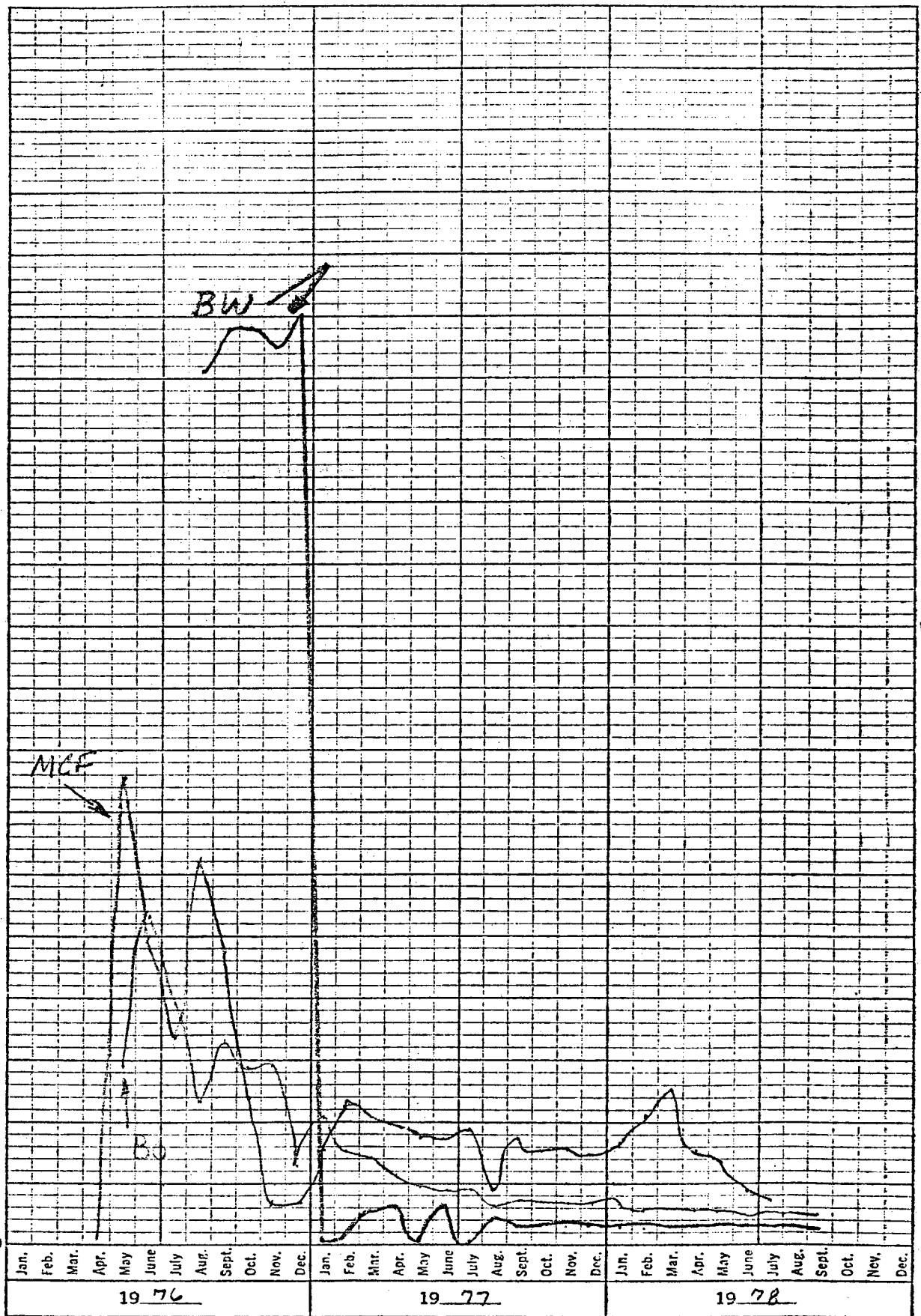
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Western Oil Producers Inc., Box 2055, Roswell, New Mexico 88201

LBI:mlr
10-30-78

Lease/well
Pool

Vivian #10
Wantz Granite Wash

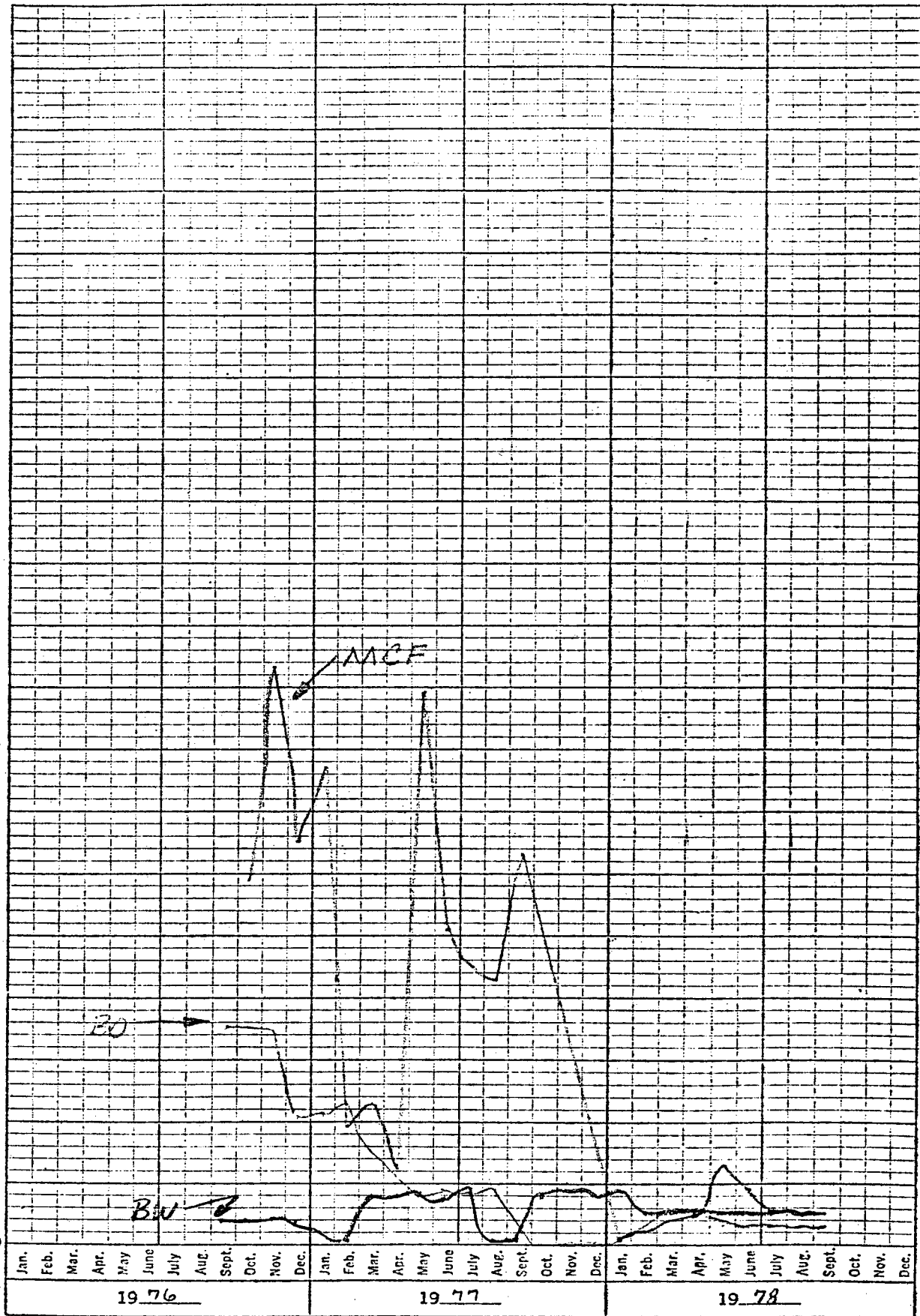
BW
per
Month



Lease/well
Pool

Vivian #10
Drinkard

BBL
per
Month



3 YEARS BY MONTHS 359-180
X 100 DIVISIONS
KEUFFEL & ESSER CO.
MADE IN U.S.A.

Col:6
Inv:Inv 101-05

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

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W. J. Schmitt
(Signature)
Well Tester

Weil Tester

10-30-78

Index

Call: 8
Toll-free 1-800-553

County
Lead

Specimen

ST	GAS - OIL
GAS	RATIO
M.C.F.	CU.FT/BL

43,000

(7) (d)

GLE: 3362

KDB: 3374
H = 11.60

Initial Comp. Date: 9-20-76
Producing Formation: WGW

S.S.
200 jts. 2 3/8" 4.70" EUE BRD
T-55 +bg.
SN@ 6268'
1-jt 2 3/8" ditto w/ Beveled Couplings
Baker "J" Latch
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Zone	Comp. Date	Date Ab:
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9 5/8" OD 36 # Grade K-55
Set @ 1194' w/ 350 sxs
Top of Cmt @ surface, circ by: ?

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gal 15% HCL. Frac w/ 25,000 gal gelled
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POT 270 BOPD FLg. (Sept 20, 1976)
(9-1-76) Perfd 6310-6496. Acidized w/ 2500
gal & frac w/ 38,000 gal gelled wtr & 50,000
sand. POT 190 BOPD, 12 BWPD FLg. (Sept 29)
(3-3-77) Both zones equipped to pump

DV@
2808
L.S.
203 jts 2 3/8" OD 4.70" EUE BRD T-55
1- Baker P.S.A. @ 6300'
34 jts ditto +bg
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string anchor @ 6300'

- = 6310-12 4-1/2" JHPF
- = 6350-52 Drinkard
- = 6391-93
- = 6455-57
- = 6494-96

Producing History:

Formation: _____

Month or Year	Oil	Wtr	G

Last Test Dated: See attached C-116's
BOPD BHPD
FL: _____ Calc. Ppg. Eff: _____

Cum. Oil _____ Cum. Gas _____

Baker Mod. "O" pkr @ 7340'

- = 7392-98 4-1/2" JHPF
- = Want 2 Granite Wash

7" OD 23 # Grade K-55
N-80

Remarks and Recommendation:

Set @ 7588' w/ 2175 sxs
Top of Cmt @ surface, circ by: 50sx
① 525sx Howco Lite + 375sx
CL & neat. Circ. out 35sx
thru DV
② Thru DV w/ 1200sx Howco Lite
+ 75sx CL & neat circ 50sx

PBTD 7573
TD 7588

OIL CONSERVATION COMMISSION
Hobbs DISTRICT

OIL CONSERVATION COMMISSION
BOX 2088
SANTA FE, NEW MEXICO

DATE November 6, 1978

RE: Proposed MC _____
Proposed DHC X _____
Proposed NSL _____
Proposed SWD _____
Proposed WFX _____
Proposed PMX _____

NOV -9 1978

Gentlemen:

I have examined the application dated _____
for the Gulf Oil Corp. Vivian #10-B & #11-A 30-22-38
Operator Lease and Well No. Unit, S-T-R

and my recommendations are as follows:

O.K.---J.S.

Yours very truly,

