

Gulf Oil Exploration and Production Company

October 30, 1978

R. C. Anderson
PRODUCTION MANAGER, HOBBS AREA

NOV - 6 1978

EXPLORATION COMPANY
Santa Fe

DHC - 266
Due - 11/27/78

P. O. Box 670
Hobbs, NM 88240

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
R. C. Anderson

LBI:cwh
Att'd.

cc: See attached sheet



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

Vivian No. 11

1. Operator: Gulf Oil Corporation, Box 670, Hobbs, New Mexico 88240
2. Lease and Well No: Vivian No. 11, Unit A, 660' FNL and 990' FEL, Section 30-22S-38E, Lea County, N.M.
3. Pools Dualled: Drinkard and Wantz Granite Wash, OCC Administrative Order MC-2268, dated 8-19-76
4. Decline Curves: Attached
5. Bottom Hole Pressure Data: Both zones in the subject well are artificially lifted.
Drinkard: Datum - 3065 Pressure @ Datum 722 psi*
Wantz Granite Wash: Datum - 4085 Pressure @ 898 psi*
* Estimates based on most recent available BHP data within vicinity of well and fluid level test.
6. Fluid Characteristics: Drinkard and Wantz Granite Wash are presently being commingled downhole in Coquina Oil Corporation's Vivian No.1. There has been no evidence of fluid compatibility.
7. Well History: Well No. 11 was drilled to a total depth of 7686' with 7" production casing set at 7686'. Current PBTD is 7640'. On 8-1-76 the 7" casing was perforated 4- $\frac{1}{2}$ " JHPF in the Wantz Granite Wash interval 7421-7510 and the well was stimulated by acidizing with 1000 gallons 15% NEHCL acid and fracturing with 30,000 gallons gelled kerosene with 1 - 1 $\frac{1}{4}$ # 20-40 SPG. After isolating the Wantz Granite Wash perfs the 7" casing was perforated 4 - $\frac{1}{2}$ " JHPF on 8-12-76 in the Drinkard interval 6344-6548. The Drinkard was acidized with 2,500 gallons 15% NEHCL and frac with 35,000 gallon gelled water with 1 - 3 # 20-40 SPG. The Drinkard was equipped to pump on 9-21-76. Both zones potentialized as follows on 9-27-76: Wantz Granite Wash 309 BOPD, 0 BWPD - flowing, Drinkard 29 BOPD, 14 BWPD - pumping. The Wantz Granite Wash was equipped to pump on 11-15-76.
8. Value of Commingled Fluids: Drinkard and 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 Test: See Attached C-116
10. All offset operators have been notified by copy of this application.

LBI:cwh
10-30-78

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

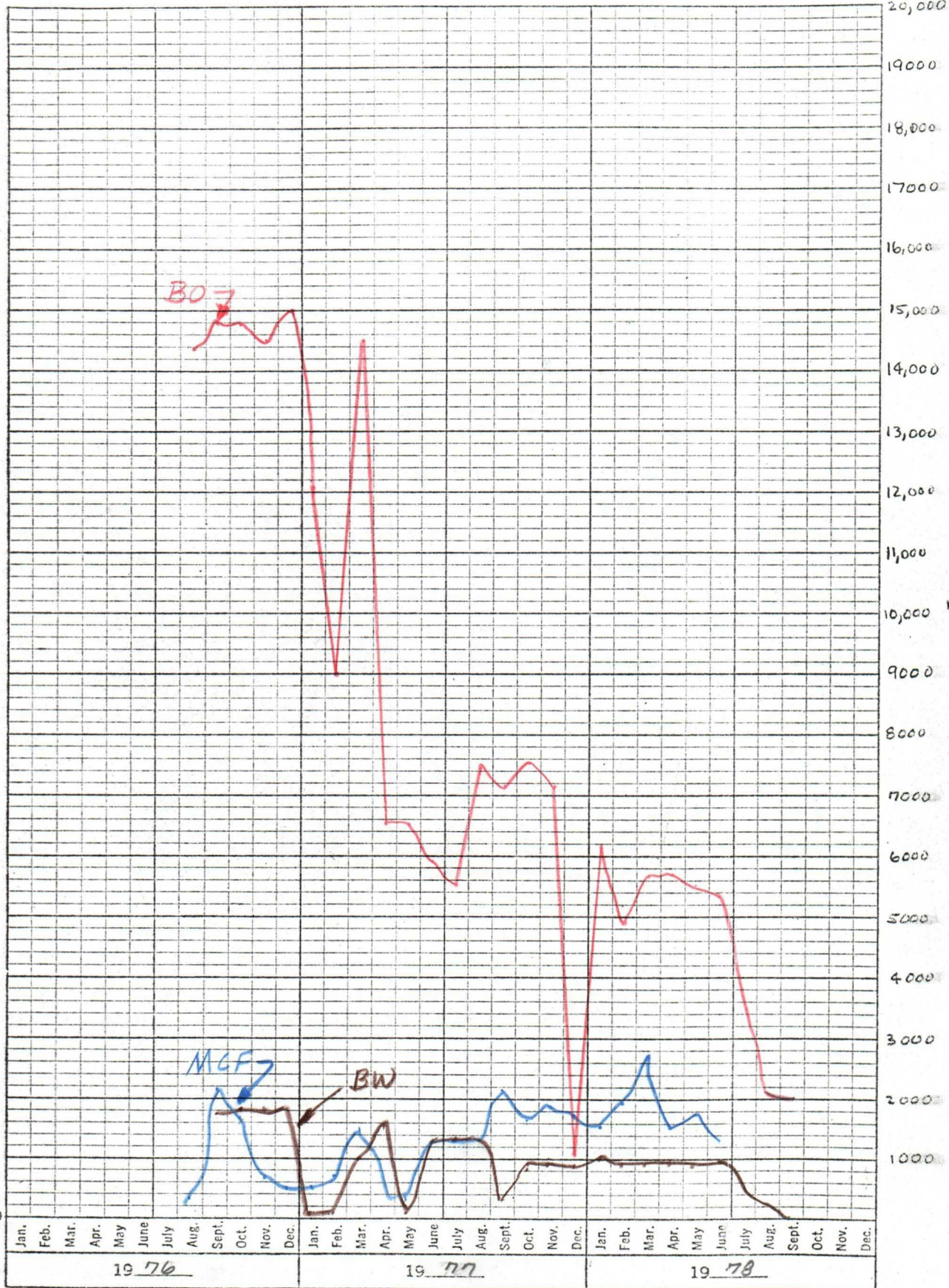
Lease/well
Pool

Vivian # 11
Wantz Granite Wash

BBL
per
Month

MCF
per
month

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



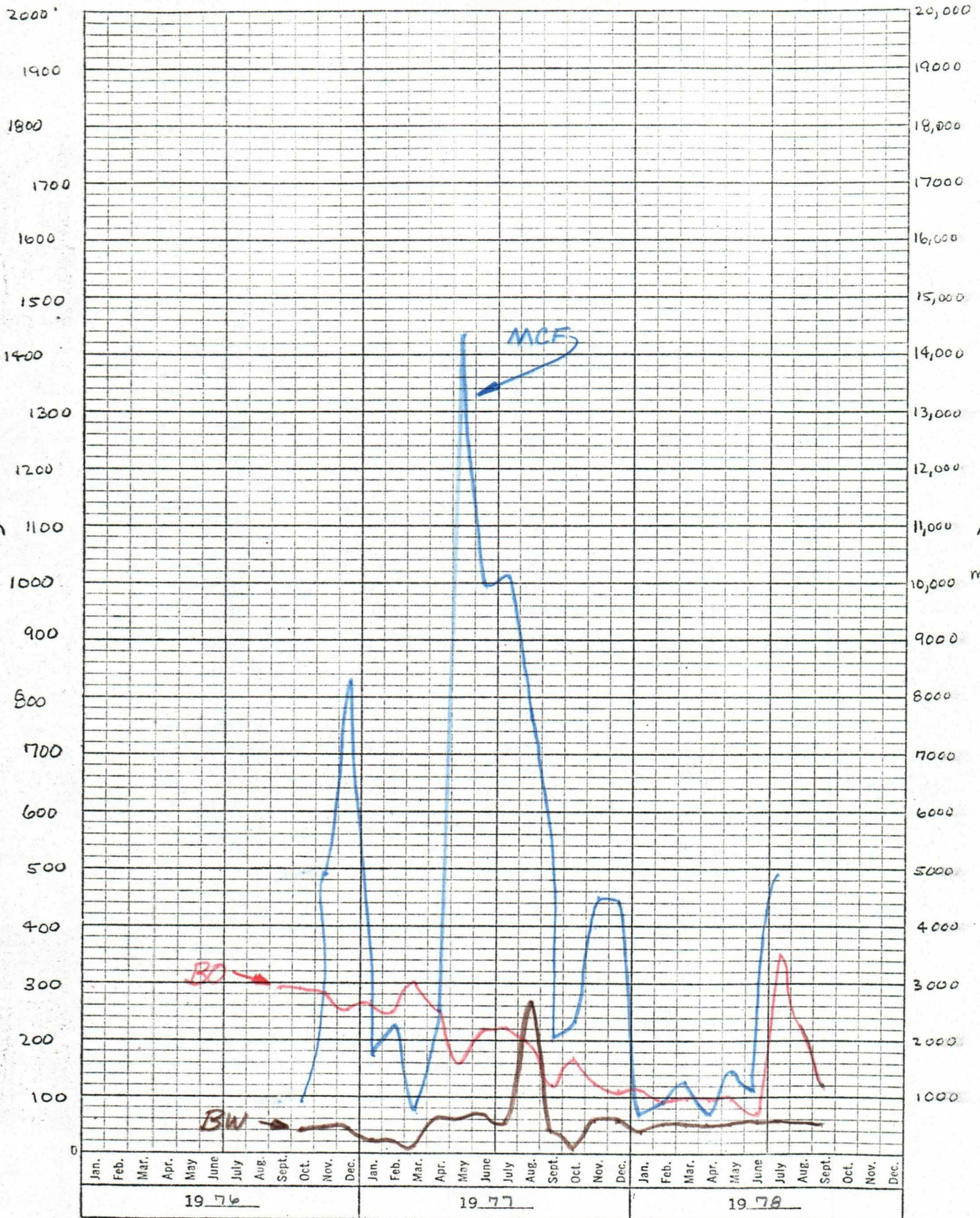
Lease/well
Pool

Vivian #1D
Drinkard

BBL
per
Month

MCF
per
month

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



Call: 6
Reviewed 1-1-55

1-1-55

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

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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.

Kell 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.

Well Tester

(Signature)

10-30-78

(7:44c)

C-1:5
Reviewed 1-1-53

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 allowances when authorized by the Commission.

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Well Tester

(Signature)

10-30-78

(7:4c)

LEASE Vivian Well No. 11 Pool Drk & W.G.W.
UNIT A
Location: LOGO FNL & 990 FEL SEC 30-22S-38E County Lea State NM

GLE: 3370

KDB: 3381.60

Initial Comp. Date: 9-27-76

H = 11.66

Producing Formation: WGW

S.S.
210jts. 2 3/8" 4.70# EUE BRD
J-55+bg.
SN@ 6409
1jt ditto+bg
Parallel Anchor Latching Device
Model O P.S.A. @ 6440'

Zone	Comp. Date	Dat
7421-510	9-27-76	
6344-548	9-27-76	

9 5/8" OD 40 # Grade N-80
Set @ 1240' w/ 550 sx
Top of Cmt @ surface, circ

Treatment History: (Current

(8-1-76) Perf'd 7421-7510 Acidized w/

1000gal 75% NE HCL, Frac w/

30,000gal gelled kerosene + 1 1/2" #3 PG
(8-12-76) Perf'd 6344-6548. Trtd w/

2500gal 15% NE HCL. Frac w/

35,000gal gelled wtr w/ 1-3" 20-40 S.A.

Both zones potentiated on 9-27-

Drk 29 BOPD, 14 BWPD - PPG.

W.G.W. 309 BOPD, 0 BWPD - FLg

Drk equipped to pump on 9-21-76

W.G.W. " " " 11-15-76

DV Tool
@ 2782'

L.S.
207jt 2 3/8" 4.70# EUE BRD J-55
Model O P.S.A @ 6440
30jt ditto+bg
FL on-off seal connector w/ 1.87" profile
#81-32 Roto set assy.
Baker Mod 'L' Pkr @ 7380'

Model O P.S.A @ 6440'

= 6344-46
= 6401-03
= 6452-54
= 6511-13
= 6546-48

Baker Mod. 'L' pkr @ 7380'

= 7421-23 } 4-1/2" THPE
= 7452-54 } Wontz Granite Wash
= 7474-76 }
= 7508-10 }

Producing History:

Formation:

Month or Year Oil Water

Last Test Dated: See attached C-116

BOPD

BWPD

FL: Calc. Ppg. EFF:

Cum. Oil Cum. Gas

7" OD 23 1/2" # Grade K-55

Remarks:

Set @ 7686' w/ 2000 sx

Top of Cmt @ surface, circ by: 300sx

① 500sx Lt. cnt. + 6" salt/sx + 1/4"

Flock/sx. 425sx CLC + 5% CFR-2/gal

Circ 150sx

② 1000sx Lt cnt + 15" salt/sx + 75sx

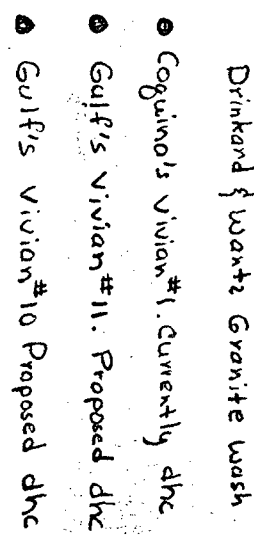
CLC + 2% CaCl2

PB 7640

TD 7686

Prepared by: L.B. Ivanhoe

Date 10-30-78



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Vivian No. 11

1. Operator: Gulf Oil Corporation, Box 670, Hobbs, New Mexico 88240
2. Lease and Well No: Vivian No. 11, Unit A, 660' FNL and 990' FEL, Section 30-22S-38E, Lea County, N.M.
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LBI:cwh
10-30-78

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Coquina Oil Corporation, 400 N. Marienfield, Drawer 2960, Midland, Texas 79702
Western Oil Producers Inc. P.O. Box 2055, Roswell, N.M. 88201

Lease/well
Pool

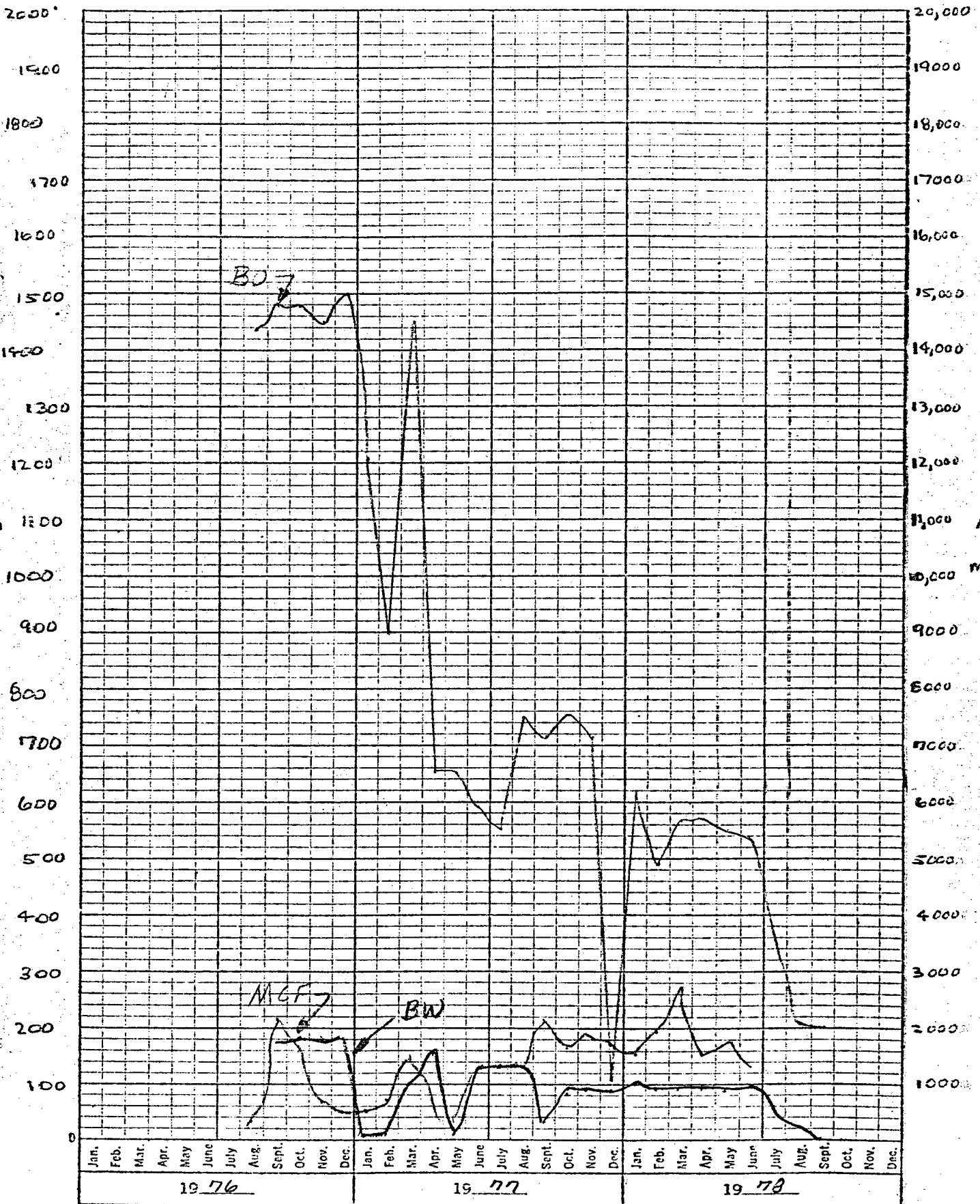
Vivian #11

Wantz Granite Wash

BBL
per
Month

M
P
MO

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

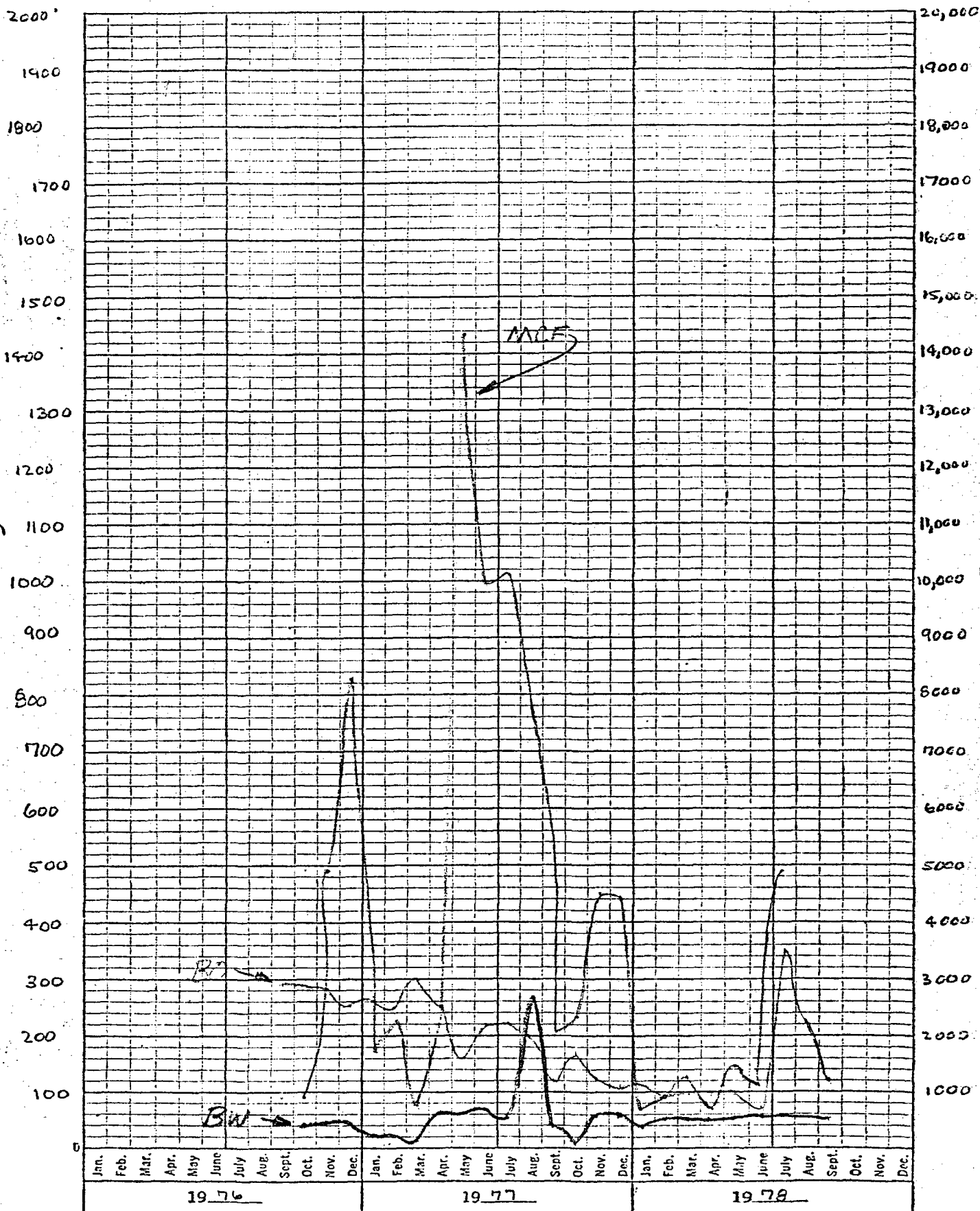


Lease/well
Pool

Vivian #10
Drinkard

BBL
per
Month

2 YEARS OF MONITORING
X 100 DIVISIONS
KEUFFEL & ESSER CO.
MADE IN U.S.A.



NEW MEXICO OIL CONSERVATION COMMISSION GAS-OIL RATIO TESTS

Call 8
Revised 1-1-63

Operator Gulf Oil Corporation		Pool Wantz Granite Wash		County Lea											
Address P. O. Box 670 Hobbs, New Mexico		TYPE OF TEST - (X)		Schedul ☐											
LEASE NAME		WELL NO.		Completion ☐											
		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 BBL.	GRAV. OIL BBL.		GAS M.C.F.	
Vivian	11	A	30	22	38	10-23-78	P 2 1/2"	35	8	24	1	36.2	10	23.0	2300

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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.

Michael Lester
 Well Tester (Signature)

10-30-78 (Date)

**NEW MEXICO OIL CONSERVATION COMMISSION
GAS-OIL RATIO TESTS**

C-16
Revised 1-1-65

Operator Gulf Oil Corporation		Pool Drinkard		Locality Lea										
Address P. O. Box 670 Hobbs, New Mexico		Type of Test - (X) ☒		Scheduled ☐										
Lease Name		Completion ☐		Special ☒										
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 BLS.	GRAV. OIL BLS.		GAS M.C.F.	
11	A	30	22	38	10-22-78	P 2" WO	30	5	24	1	38.8	7	36.0	5143

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[Signature]
Well Tester
(Signature)

10-30-78 (Date)

LEASE Vivian Well No. 11 Pool Drk & W.G.W.
UNIT A
Location: 660 FNL & 990 FEL SEC 30-215-38E County Lea State NM

GLE: 3370

KDB: 338/.60

Initial Comp. Date: 9-27-76

H = 11.66

Producing Formation: WGW

S.S.
210jt 5.2 3/8" 4.70# EUE BRD
J-55+bg.
SN@ 6409
1jt ditto+bg
Parallel Anchor Latching Device
Model O P.S.A. @ 6440'

Zone	Comp. Date	Date
7421-510	9-27-76	
6344-548	9-27-76	

9 5/8" OD 40 # Grade N-80
Set @ 1240' w/ 550 sx
Top of Cmt @ surface, circ by: 90sx

Treatment History: (Current 2

(8-1-76) Perf'd 7421-7510. Acidized w/

1000gal 15% NE HCL. Frac w/

30,000gal gelled kerosene + 1 1/4" #3 PG
(8-12-76) Perf'd 6344-6548. Trd w/

2500gal 15% NE HCL. Frac w/

35,000gal gelled wtr w/ 1-3" #20-40 SPG

Both zones potentiated on 9-27-76

Drk 29 BOPD, 14 BWPD - ppg.

W.G.W. 309 BOPD, 0 BWPD - FLg

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@ 2782'

L.S.
207jt 2 3/8" 4.70# EUE BRD J-55
Model O P.S.A @ 6440
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"FL" on-off seal connector w/ 1.87" profile
#81-32 Roto Set Assy.
Baker Mod 'L' Pkr @ 7380'

Model O P.S.A @ 6440'

= 6344-46
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= 6546-48

Baker Mod. 'L' pkr @ 7380'

= 7421-23 } 4-1/2" THPF
= 7452-54 } Wantz Granite Wash
= 7474-76 }
= 7508-10 }

Producing History:

Formation: _____

Month or Year Oil Water Gas

Last Test Dated: See attached C-116

BOPD BWPD

FL: _____ Calc. Ppg. Eff: _____

Cum. Oil Cum. Gas

7" OD 23 1/2" # Grade K-55

Remarks:

Set @ 7686' w/ 2000 sx

Top of Cmt @ surface, circ by: 300sx

@ 500sx Lt. cmt. + 6" salt/sx + 1/4"

Flocle/sx. 425sx CLC + 5% CFR. 7/gal

Circ 150sx

@ 1000sx Lt cmt + 15" salt/sx + 75sx

CLC + 2% CaCl₂

Prepared by: J. B. Ivanhoe

Date 10-30-78