

Gulf Oil Exploration and Production Company

October 30, 1978

R. C. Anderson
PRODUCTION MANAGER, HOBBS AREA

P. O. Box 670
Hobbs, NM 88240

Re: Vivian No. 10, 800'FNL & 2250'FEL;
Section 30-22S-38E;
Vivian No. 11, 660'FNL & 990'FEL,
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
Sante Fe, New Mexico 87501

Dear Sir:

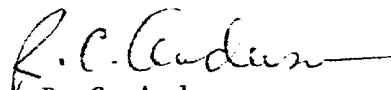
Your administrative approval is requested for an exception to Rule 303-A to permit downhole commingling of production in the subject wells from the Wantz Granite Wash and the Drinkard Pools (commingled in surface storage by Administrative Order PC-486 dated 9-24-74). Production from the same two pools 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

SECRET

107-31378

U. S. DEPARTMENT OF COMM.
WASHINGTON, D. C.

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

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11/1/81

U.S. CONSERVATION COMM.
BUREAU, N. H.

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 perfs,
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 potentialed 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

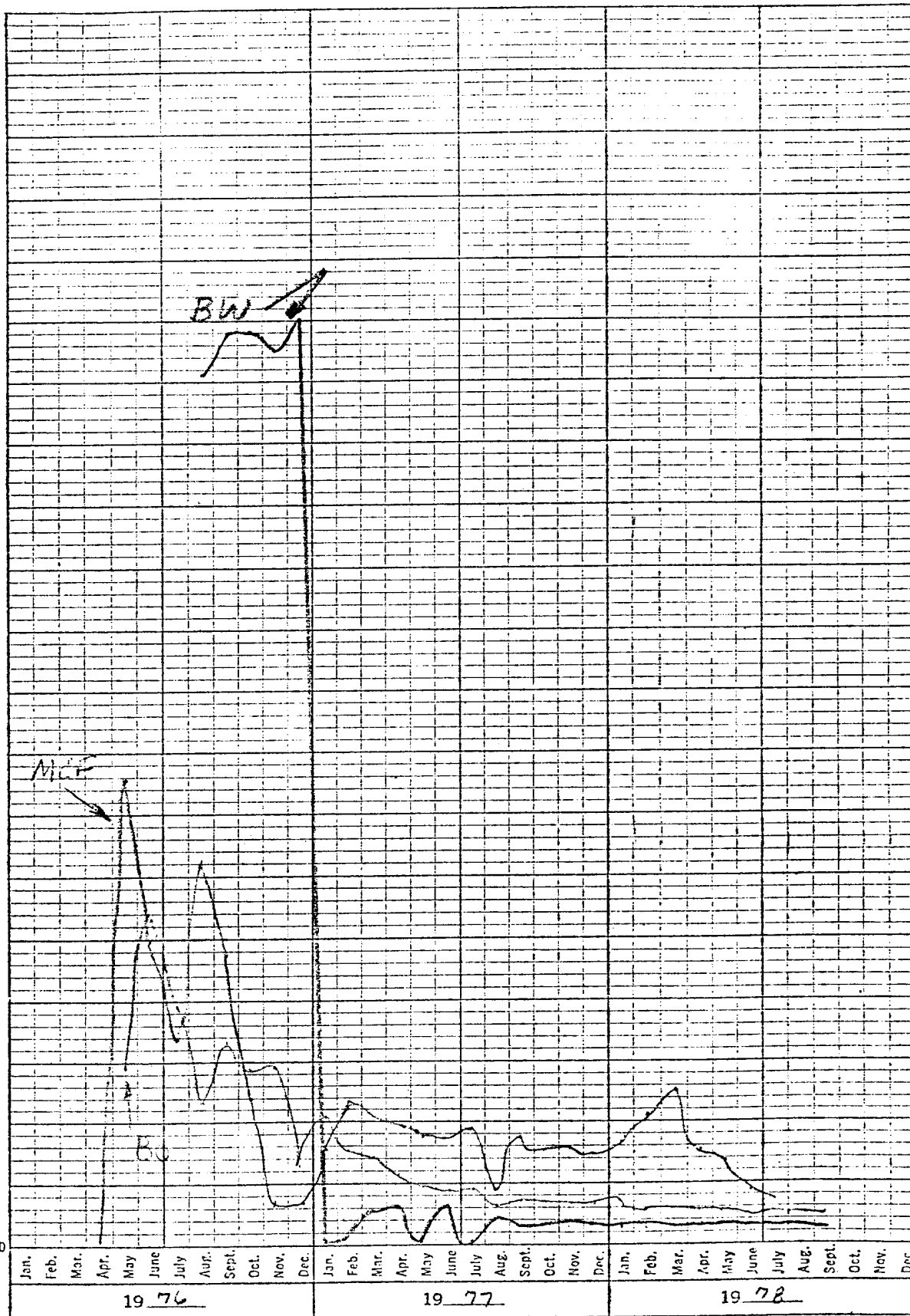
LBI:mlr
10-30-78

Lease/well

Vivian #10

Pool

Wantz Granite Wash

BW
per
Month2000
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
700
600
500
400
300
200
100
020,000
19,000
18,000
17,000
16,000
15,000
14,000
13,000
12,000
11,000
10,000
9,000
8,000
7,000
6,000
5,000
4,000
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2,000
1,000

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U.S. CONSERVATION COMM.
FEDERAL B. M.

Lease/well
Pool

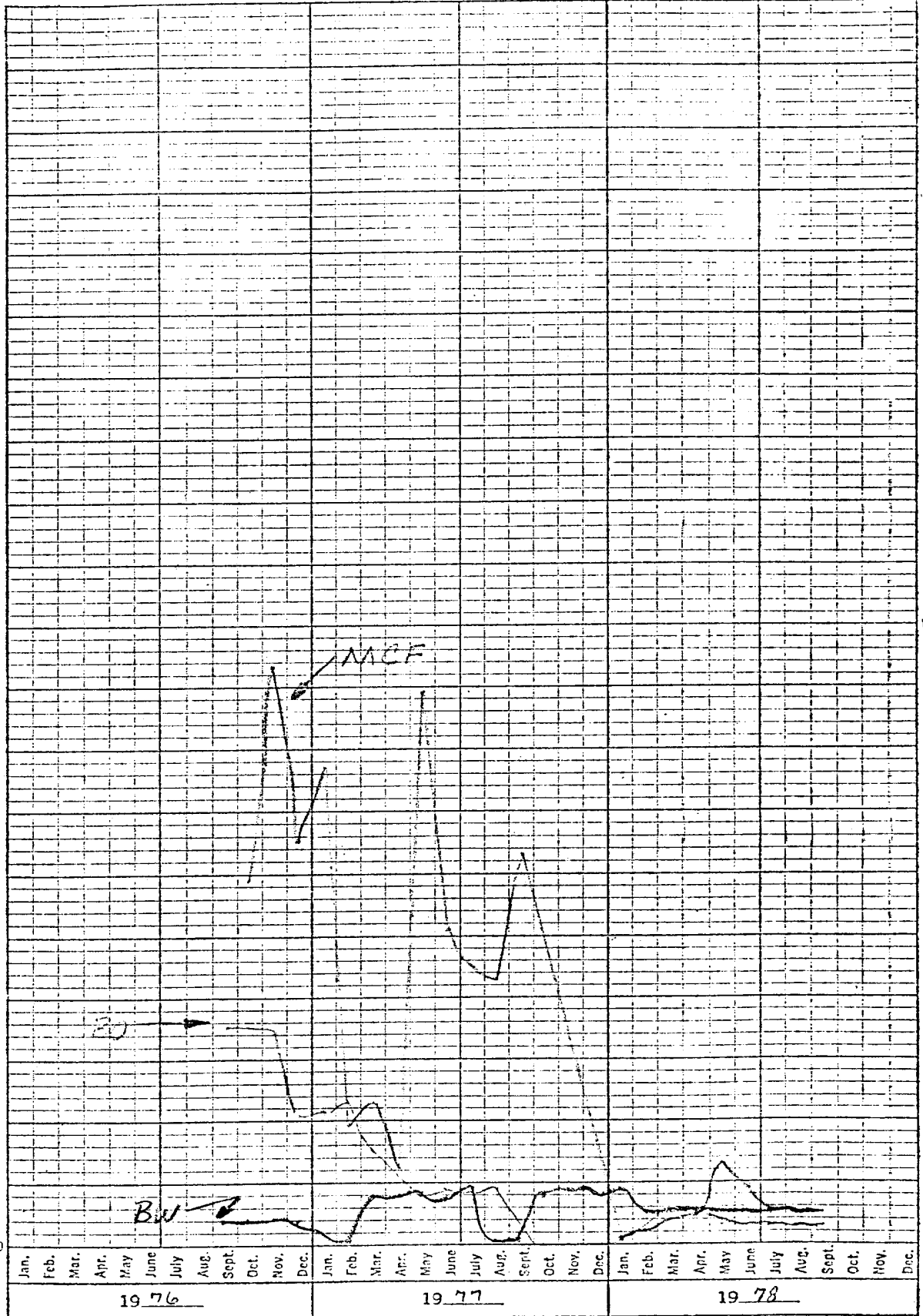
Vivian # 0
Drinkard

BBL
per
Month

2000
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
700
600
500
400
300
200
100
0

20,000
19,000
18,000
17,000
16,000
15,000
14,000
13,000
12,000
11,000
10,000
9,000
8,000
7,000
6,000
5,000
4,000
3,000
2,000
1,000
0

LF
F
MC



NEW MEXICO OIL CONSERVATION COMMISSION
GAS-OIL RATIO TESTS

C-116
Revised 12-1-65

Operator Gulf Oil Corporation		Pool Wantz Granite Wash		County Lea											
Address P.O. Box 670 Hobbs, New Mexico		TYPE OF TEST - (X) ☒ TEST - (X)		Schedulr ☐ Special ☒											
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	T.B.G. PRESS.	DAILY ALLOWABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU.FT/BSL		
		U	S	T						R	WATER BSL.	GRV. OIL BSL.		OIL BSL.	GAS M.C.F.
Vivian	10	B	30	22	38	10-17-78	P 2 1/2"	30	19	24	2	36.6	9	47.0	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 allowances 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.
Mail 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.

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

W. J. [Signature]
Well Tester
10-30-78 (Date)

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

G-118
Revised 1-1-65

Operator Gulf Oil Corporation		Pool Drinkard		County Lea											
Address P.O. Box 670 Hobbs, New Mexico 88240		Type of Test - (X) ☒ TEST - (X)		Scheduled ☐ Completion ☐ Special ☒											
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 BBL'S	GRAV. OIL BBL'S	OIL BBL'S	GAS M.C.F.	
Vivian	10	B	30	22	38	10-16-78	P 2"WO	30	5	24	6	42.8	2	86.0	43,000

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 (Signature)

10-30-78 (Date)

Location 800 ENL & 2250 EF, Sec 30-22S-38E County Lea State Stat

GLE: 3362

KDB: 3374

H = 11.60

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

S.S.
200 jts. 2 3/8" 4.70# EUE BAD
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 Ab.
<u>7392-98</u>	<u>9-20-76</u>	
<u>6310-6496</u>	<u>9-20-76</u>	

9 5/8" OD 36 # Grade K-55Set @ 1194' w/ 350 sxsTop of Cmt @ surface, circ by: ?DVE
2808

L.S.
203 jts 2 3/8" OD 4.70# EUE BR 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'.

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
= Mont 2 Granite Wash

7" OD 23 # Grade K-55Set @ 7588' w/ 2175 sxsTop of Cmt @ surface, circ by: 50sx

① 525 sx Howco Lite + 375 sx
CL & neat. Circ. out 35 sx
thru DV
② Thru DV w/ 1200 sx Howco Lite
+ 75 sx CL & neat circ 50 sx

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 1980 PD, 12 BWPD FLg. (sept 20

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

Producing History:

Formation: _____

Month or Year	Oil	Wtr	C

Last Test Dated: See attached C-116's

BOPD

BWPD

FL: _____ Calc. Ppg. Eff: _____

Cum. Oil _____ Cum. Gas _____

Remarks and Recommendation:

Prepared By: L. B. IvanhoeDate: 10-30-78

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 - ½" 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 - 1½ # 20-40 SPG. After isolating the Wantz Granite Wash perfs the 7" casing was perforated 4 - ½" 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

1971

1971

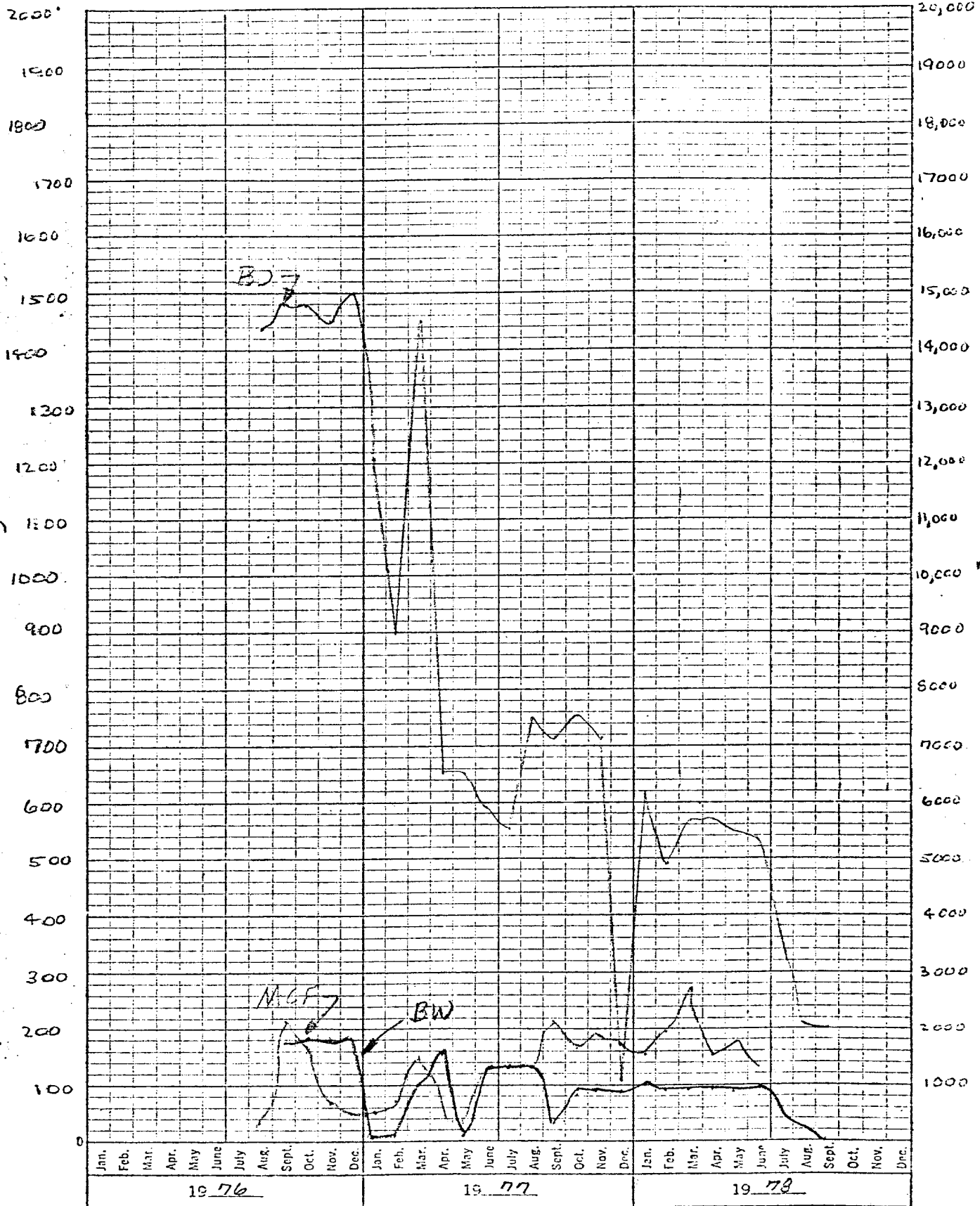
U. S. CONSTITUTION COMM.
1971

Lease/well
Pool

Vivian # 11

Wantz Gran re Wash

BBL
per
Month

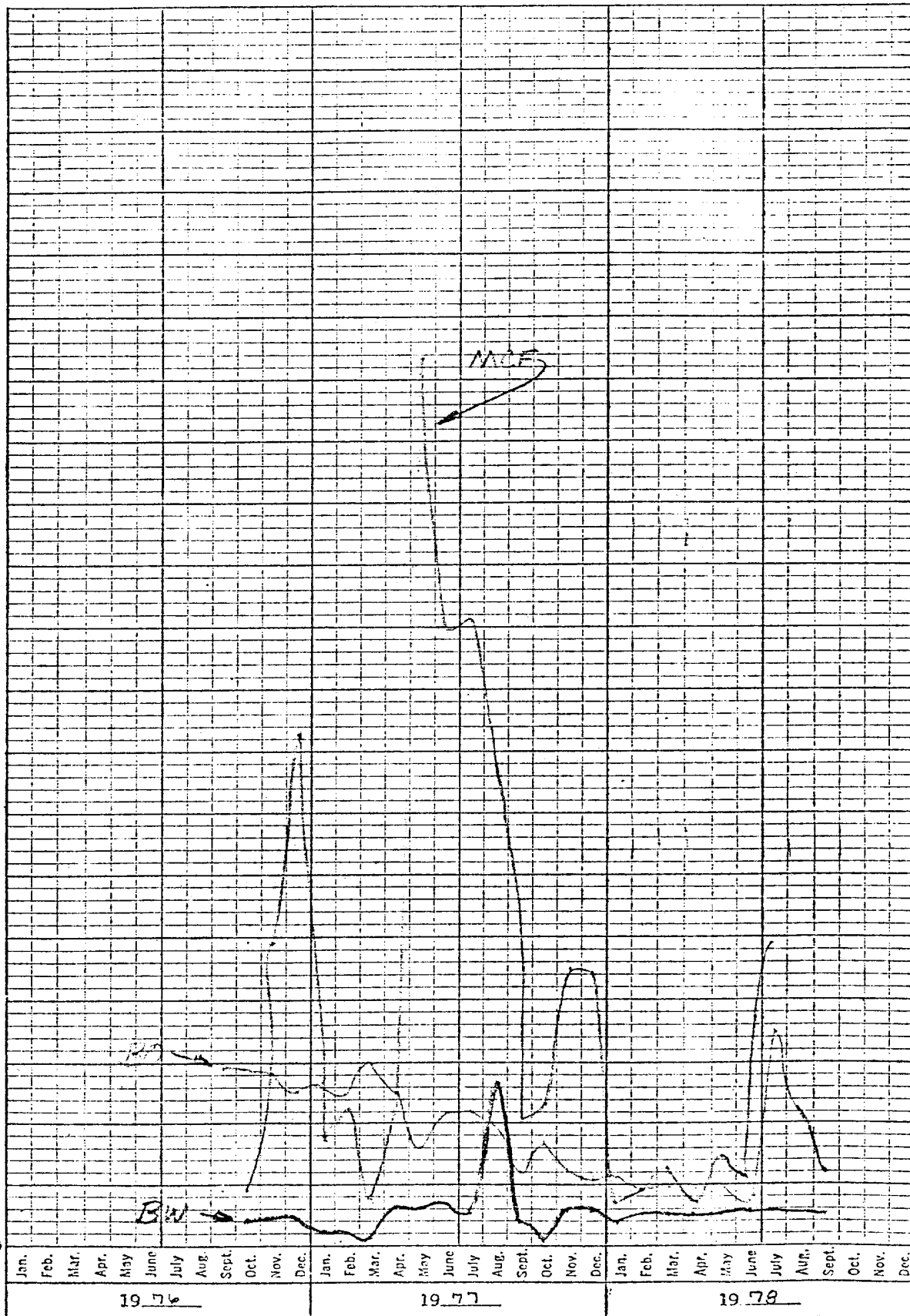


Lease/well Vivian #11
Pool Drinkard

BBL
per
Month

2000
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
700
600
500
400
300
200
100
0

20,000
19,000
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NOV 3 1978

U.S. CONSERVATION COMM.
FEDERAL BUREAU OF INVESTIGATION

C-115
 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.

Keep 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.

Call:

...

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

Dur-E 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.

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 103 and appropriate pool rules.

W. Schumacher
(Signature)

Well Tester

10-30-78

(7:4c)

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NOV 8 1978

OIL CONSERVATION COMM.
HOBBES, N. M.

GLE: 3370

KDB: 3381.60

Initial Comp. Date: 9-27-76

H = 11.66

Producing Formation: W6W

S.S.
210jts. 2 3/8" 4.70# EUE 8rd
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 by: 90sx

Treatment History: (Current)

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

1000gal 75% NE HCL. Frac w/

30,000gal gelled kerosene + 1 1/4" #3PG

(8-12-76) Perf'd 6344-6548. Trtd w/

2500gal 15% NE HCL - Frac w/

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

Both zones perforated on 9-27

Drk 29BOPD, 14BWPD - ppg.

W6.W 309BOPD, 0BWPD - FLg

Drk equipped to pump on 9-21-7

W6.W " " " " 11-15-7

DV Tool
@ 2782'

L.S.
207jts 2 3/8" 4.70# EUE 8rd J-55
Model O P.S.A @ 6440
30jts 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 } Want 2 Granite Wash
= 7474-76 }
= 7508-10 }

PB 7640
TD 7686

7" OD 23 1/2" # Grade K-55
Set @ 7686 ' w/ 2000 sx

Remarks:

Top of Cmt @ surface, circ by: 300sx

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

Floc: 1/sx. 425sx CLC + .5% CFE. 2/gal

Circ 150sx

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

CLC + 2% CaCl₂

Producing History:

Formation:

Month or Year	Oil	Water
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Last Test Dated: See attached C-111

BOPD

BWPD

FL: Calc. Ppg. EFF:

Cum. Oil Cum. Gas

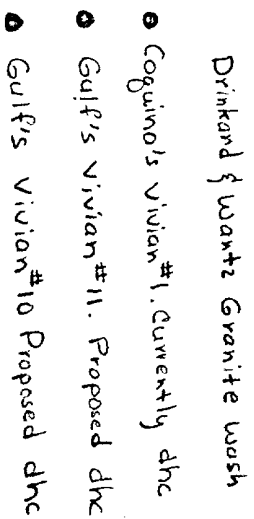
Prepared by: J. B. Iwanke

Date 10-30-76

REC-17

NOV 13 1976

OIL CONSERVATION COMM.
ROBBS, N. M.



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OIL CONSERVATION
HOBBS, N. M.