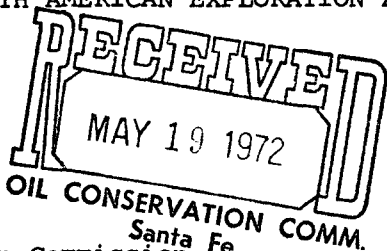


# Getty Oil Company

~~XXXXXXXXXX~~ NORTH AMERICAN EXPLORATION AND PRODUCTION



P. O. Box 249  
Hobbs, New Mexico 88240

May 18, 1972

*DHC-116*  
*Due June 8*

Oil Conservation Commission  
State of New Mexico  
P. O. Box 2088  
Santa Fe, New Mexico 87501

Attention: Mr. A. L. Porter, Jr.

Ref: Application for Downhole Commingling  
Getty Oil Company  
State "BA" No. 6, North  
Vacuum Abo and Vacuum Wolfcamp Pools  
Lea County, New Mexico

Gentlemen:

Getty Oil Company respectfully requests Administrative Approval for downhole commingling in its State "BA" Well No. 6, located 660' FNL & 860' FWL of Section 36, Township 17 South, Range 34 East, Lea County, New Mexico.

This well qualifies for Administrative Approval in accordance with statewide Rule 303, Paragraph "C"; and in support thereof, the following facts are submitted:

1. The attached plat shows the State "BA" Lease outlined in red and located in Section 36, Township 17 South, Range 34 East, Lea County, New Mexico. Well No. 6 is marked with an arrow on the plat.
2. The well was dually completed in the Vacuum Abo North and the Vacuum Wolfcamp Pools and approved by Commission (Order No. MC-1332 on June 10, 1963).
3. Current tests for each zone are as follows:

VACUUM ABO, NORTH: On May 14, 1972, the Abo pumped at a rate of 18 BOPD, 1 BWPD, 51 MCFGPD at 60 PSI tubing pressure. (Perforations: 9070' to 9231' selective).

VACUUM WOLFCAMP: On May 13, 1972, the Wolfcamp flowed at a rate of 20 BOPD, 1 BWPD, 238 MCFGPD at 175 PSI flowing tubing pressure. (Perforations: 9902' to 10,016' selective).

NMOCC Forms C-116 are attached. These producing rates do not exceed the limit set out in Paragraph "C", (b), i.e. 80 BOPD.

4. Neither zone produces more water than the combined oil limit as determined in Rule 303, Paragraph C, (d).

5. Getty Oil Company has commingled the fluids at the surface since completion (Administrative Order No. PC-147), and has encountered no incompatibility problems; therefore, no reservoir damage will result from downhole commingling these two zones.

NMOCC

Mr. A. L. Porter, Jr. - Santa Fe  
State "BA" Well No. 6

Page No. 2

6. The surface commingling resulted in no reduction of oil value; therefore, downhole commingling will not reduce the oil value.

7. The ownership of the zones to be commingled is common.

8. Attached is a production decline curve showing the monthly production of oil for each zone since January, 1969.

9. The production from the Vacuum Abo, North is by artificial lift and the production from the Vacuum Wolfcamp is by natural flow. If the application for downhole commingling is approved, the commingled production will be artificially lifted. Twenty-four hours shut-in bottom hole pressures taken on the State "BA" Well No. 8 are 536 PSI at 9100' and 897 PSI at 9950' respectively for the Vacuum Abo, North and the Vacuum Wolfcamp Zones. The bottom hole pressure surveys are enclosed.

10. Downhole commingling will not jeopardize the efficiency of future secondary operations in either zone.

11. Copies of this application have been furnished to offset operators.

History of State "BA" Well No. 6: The well was dually completed in the Vacuum Abo, North and Vacuum Wolfcamp Zone. The last Packer Leakage Test run in August, 1971 indicated no communication.

Very truly yours,  
GETTY OIL COMPANY

*C. L. Wade*  
C. L. Wade  
Area Superintendent

SDS-HBS/bh  
ATTACHMENTS

MAILING LIST

2 CC:	NMOCC P. O. Box 2088 Santa Fe, New Mexico 87501	1 CC:	NMOCC P. O. Box 1980 Hobbs, New Mexico 88240
1 CC:	Getty Oil Company P. O. Box 1231 Midland, Texas 79701	1 CC:	Getty Oil Company Attn: Mr. E. H. Shuler P. O. Box 1404 Houston, Texas 77001
1 CC:	Continental Oil Company P. O. Box 460 Hobbs, New Mexico 88240	1 CC:	Marathon Oil Company P. O. Box 2409 Hobbs, New Mexico 88240
1 CC:	Mobil Oil Corporation P. O. Box 1800 Hobbs, New Mexico 88240	1 CC:	Phillips Petroleum Company P. O. Box 2130 Hobbs, New Mexico 88240
1 CC:	Texaco, Inc. P. O. Box 728 Hobbs, New Mexico 88240	1 CC:	Getty Oil Company P. O. Box 249 Hobbs, New Mexico 88240 (FILE)

File  
Copy

33 98MOBIL  
25 99

15 95  
97 12

S1016  
Bridges State

CONTINENTAL  
"H"  
H.B.P.  
35

13  
2 8  
3 7

5 10  
10-X  
1 12 9

State "H"  
PHILLIPS  
H.B.P.

5 9  
1 7

10  
3 8

MARATHON

4 2  
6

5 3  
10 7 1

Mc Callister State

S1016  
State "O"

TEXACO  
H.B.P.  
SHELL  
H.B.P.

8 3 1  
2 1

2 5  
6 1 4

82145  
"BA"  
H.B.P.  
GETTY  
36

5 3 6  
7 4  
9 8 2  
10 1

State "BA"

TEXACO  
"O"

20 1  
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21 3  
16 2 18

State "O" NCT 1

ANERADA - HECS  
I-A "B"  
H.B.P. 2-V

MOBIL  
"I"  
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25 6 14 12  
4 15

8 22  
9 17  
10 23  
24 7

GETTY OIL COMPANY  
STATE "BA" WELL NO. 6  
VACUUM ABO, NORTH FIELD  
VACUUM WOLF CAMP FIELD  
LEA COUNTY, NEW MEXICO  
APPLICATION FOR DOWNHOLE COMMINGLING.

1 6 2

5 1

State "N"

S1016

SKELLY  
"J"  
H.B.P.  
SHELL  
"A"

MOBIL  
"H"  
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2-H  
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2 1  
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4 5

State Da. Com.  
PHILLIPS  
H.B.P.

MARATHON  
H.B.P.

88 1

1 3 5

2 3 8

87

4 2

MOBIL  
"K"  
H.B.P.

7 2

Santa Fe  
Battery 2

SHELL  
H.B.P.  
2-D  
1-D

SHELL  
H.B.P.  
2

PHILLIPS  
H.B.P.

102 4

8 3

FIGURE NO. 1

S1016

10,000

5,000

1,000

500

BARRELS PER MONTH

100

10

BOPM

BWPM

GETTY OIL COMPANY  
STATE "EA" WELL NO. 6  
VACUUM ABO, NORTH  
LEA COUNTY, NEW MEXICO

KE 5 YEARS BY MONTHS 46 6690  
X 3 LOG CYCLES  
MADE IN U.S.A.  
KEUFFEL & ESSER CO.

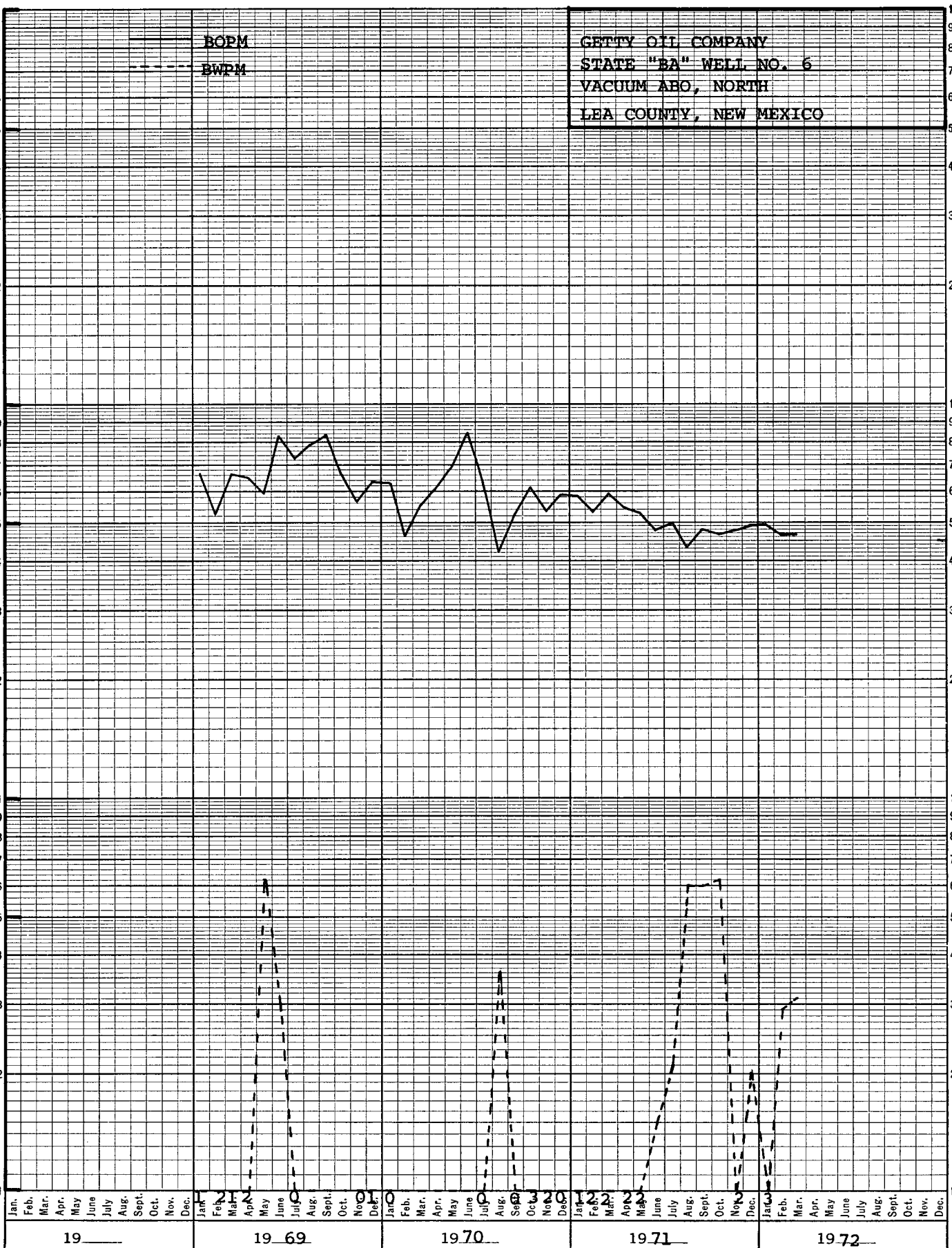


FIGURE NO. 2

5 YEARS BY MONTHS 46 6690  
X 3 LOG CYCLES  
KEUFFEL & ESSER CO.  
MADE IN U.S.A.

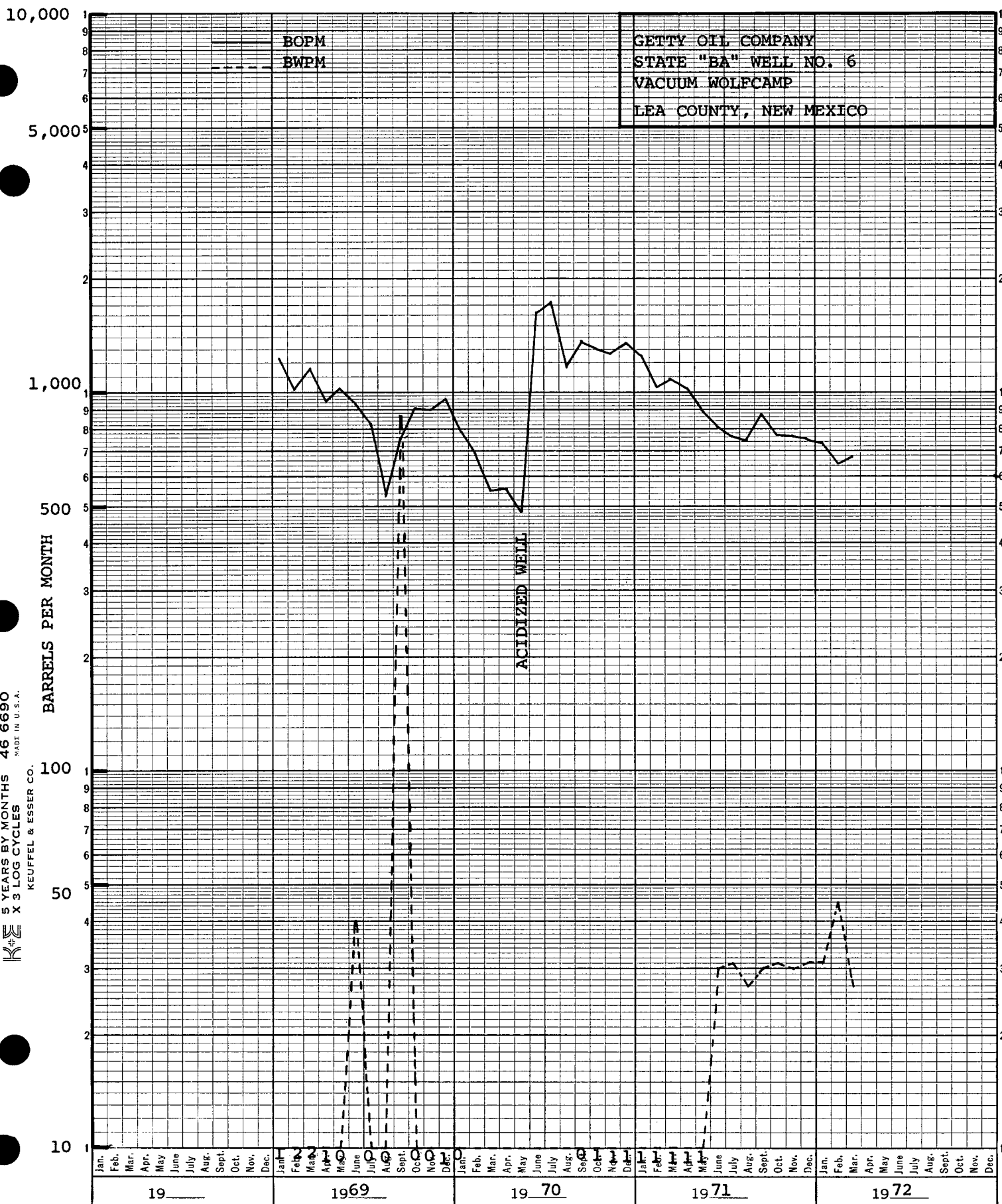


FIGURE NO. 3

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

C-116  
Revised 1-1-65

Operator <b>GETTY OIL COMPANY</b>		Pool <b>VACUUM ABO, NORTH</b>		County <b>LEA</b>	
Address <b>P.O. BOX 249, HOBBS, NEW MEXICO 88240</b>				TYPE OF TEST - (X) <input checked="" type="checkbox"/> TEST - (X)	
LEASE NAME <b>STATE "BA"</b>		WELL NO. <b>6</b>	LOCATION U S T R <b>D 36 17-S 34-E</b>		DATE OF TEST <b>5-14-72</b>
					CHOKE SIZE <b>-</b>
					TBGS. PRESS. <b>60</b>
					DAILY ALLOW-ABLE <b>16</b>
					LENGTH OF TEST HOURS <b>24</b>
					WATER BBL.S. <b>1</b>
					PROD. DURING TEST GRAV. OIL BBL.S. <b>39.1</b>
					OIL BBL.S. <b>18</b>
					GAS M.C.F. <b>51</b>
					GAS - OIL RATIO CU.FT/BBL <b>2,833</b>
<u>APPLICATION FOR DOWNHOLE COMINGLING</u>					

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 allowables 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 301 and appropriate pool rules.

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

C. R. Wadde (Signature)  
AREA SUPERINTENDENT (Title)  
MAY 17, 1972 (Date)

HBS/bh

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

C-116  
Revised 1-1-65

Operator <b>GETTY OIL COMPANY</b>		Pool <b>VACUUM WOLF CAMP</b>		County <b>LEA</b>											
Address <b>P.O. BOX 249, HOBBS, NEW MEXICO 88240</b>				TYPE OF TEST - (X) <input type="checkbox"/> Scheduled <input type="checkbox"/> Completion <input type="checkbox"/> Special <input checked="" type="checkbox"/>											
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKESIZE	TBG. PRESS.	DAILY ALLOW-ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU.FT./BBL		
		U	S	T						R	WATER BBLs.	GRAV. OIL		OIL BBLs.	GAS M.C.F.
STATE "BA"	6	D	36	17-S	34-E	5-13-72	20/64	175	28	24	1	41.3	20	238	11,900
<u>APPLICATION FOR DOWNHOLE COMMINGLING</u>															

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 allowables when authorized by the Commission.  
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*C. R. Wade*  
 (Signature)  
 AREA SUPERINTENDENT

MAY 17, 1972  
 (Date)

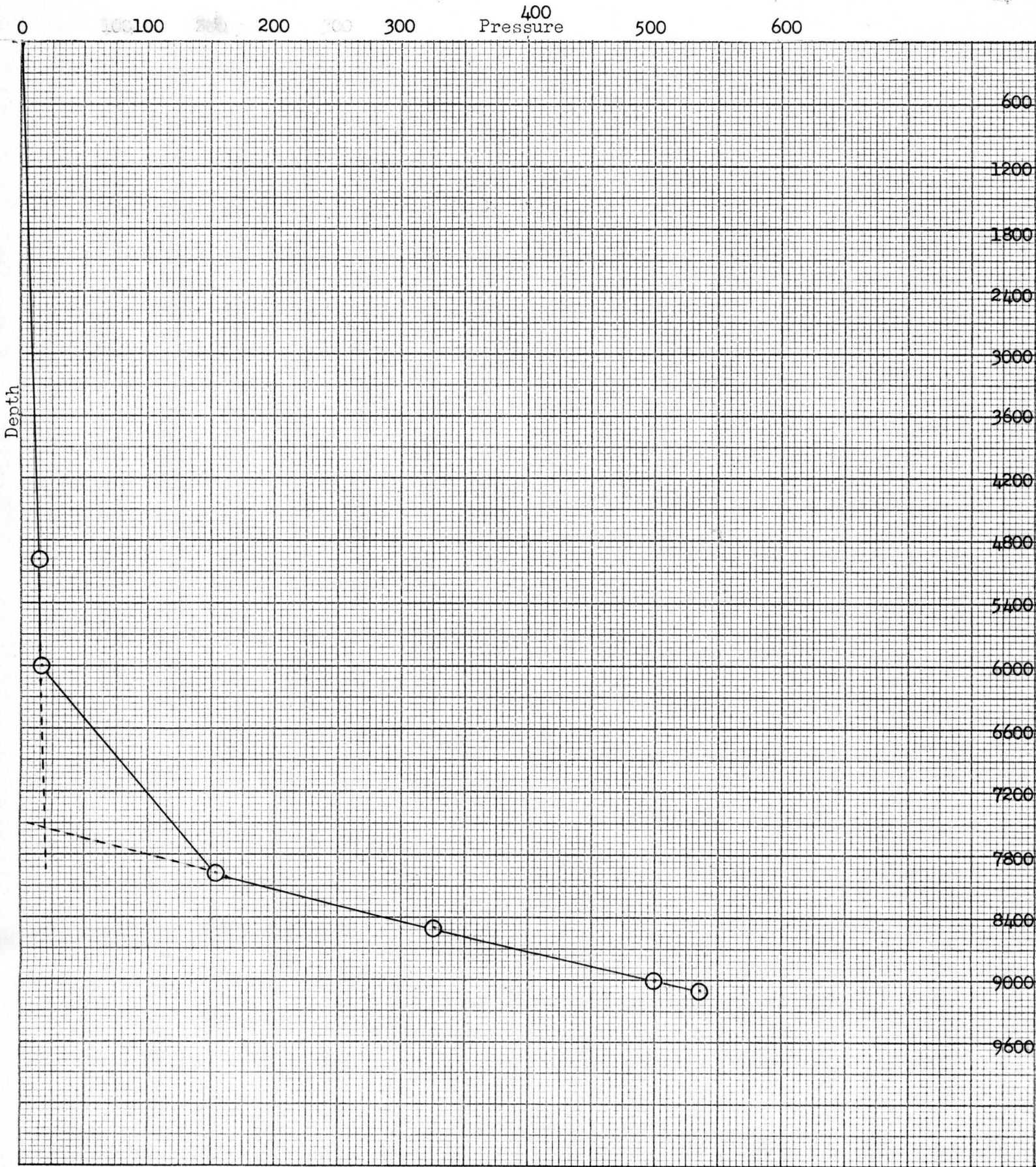
HBS/bh

(Date)



BOTTOM HOLE PRESSURE SURVEY REPORT

			Depth	Pressure	Gradient
Operator	Getty Oil Company		0	0	
Lease	State "BA"		5000	14	
Well No	8		6000	16	.002
Field	North Vacuum Abo		7000	18	.002
Date	5/16/72	Time	8000	153	.135
Status	Pump	Test Depth	8500	326	.346
Time S. I.	24 hours	Last Test Date	9000	500	.348
Cas. Pres.	NA	BHP Last Test	9100	536	.360
Tub. Pres.	0	BHP Change			
Elev.	3995	Fluid Top			
Temp.		Run By			
Clock No.		Gauge No.			
Element No.					





BOTTOM HOLE PRESSURE SURVEY REPORT

Operator Getty Oil Company  
Lease State "BA"  
Well No. 8  
Field Vacuum Wolfcamp  
Date 5/5/72 Time \_\_\_\_\_  
Status Flowing Test Depth 9750  
Time S. I. 25 hours Last Test Date \_\_\_\_\_  
Gas. Pres. - BHP Last Test \_\_\_\_\_  
Tub. Pres. 680# BHP Change \_\_\_\_\_  
Elev. 3995 Fluid Top \_\_\_\_\_  
Temp. \_\_\_\_\_ Run By Ralph E. Erwin  
Clock No. \_\_\_\_\_ Gauge No. \_\_\_\_\_  
Element No. \_\_\_\_\_

Depth	Pressure	Gradient
0	680	
5000	785	.021
6000	807	.022
7000	830	.023
8000	853	.023
9000	877	.024
9500	889	.024
9750	897	.032

