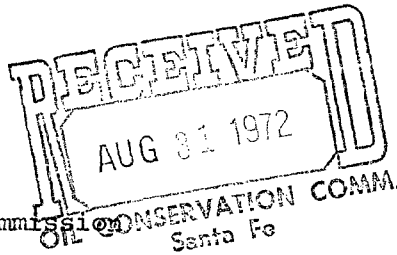


Getty Oil Company

~~Southern Division~~ NORTH AMERICAN EXPLORATION AND PRODUCTION DIVISION



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

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

DHC - 119
P. O. BOX 249
Hobbs, New Mexico 88240

August 30, 1972

DHC - ~~119~~ 119

Due Sept 20

Ref: Application for Downhole Commingling
GETTY OIL COMPANY
State "BA" Well No. 9
Vacuum Glorieta and
Vacuum Blinebry Pools
Lea County, New Mexico

Gentlemen:

Getty Oil Company respectfully requests Administrative Approval for Downhole Commingling in its State "BA" Well No. 9, located 660' FNL and 2,310' FEL of Section 36, T-17-S, R-34-E, Lea County, New Mexico.

The subject well was originally completed as a tubingless dual (two 2-7/8" casings) in the Blinebry (East String) and Glorieta (West String) Zones during November 1964. This Dual Completion was approved by the New Mexico Oil Conservation Commission under Order NO. MC-1567. The subject well was recompleted during June 1972 as follows:

1. West String: The Glorieta Zone was abandoned and the San Andres Zone perforated and treated.
2. East String: The Blinebry Zone was Temporarily Abandoned and the Glorieta Zone perforated and treated.

The above Dual Completion was approved by the NMOCC under Order No. MC-1567-A.

Getty Oil Company plans to reopen the Blinebry Zone in the subject well's East String by pulling a bridge plug which is set at 6,395', and downhole commingle the Blinebry and the Glorieta Zones. The Blinebry and Glorieta Zones would qualify for Administrative Approval in accordance with State Wide 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. 9 is marked with an arrow on the plat.

GETTY OIL COMPANY
APPLICATION FOR DOWNHOLE COMMINGLING
STATE "BA" WELL NO. 9
NMOCC - SANTA FE
AUGUST 30, 1972

PAGE NO. 2

2. The well was completed as a Dual in the Vacuum Grayburg-San Andres and the Vacuum Glorieta Pools and approved by NMOCC Order No. MC-1567-A on April 16, 1972. The previous completion, Blinebry-Glorieta Dual, was approved by the NMOCC under Order No. MC-1567.
3. Production tests for each zone on the attached "C-116" are as follows:

VACUUM BLINEBRY: On August 27, 1971, the Blinebry, perforations: 6,449' to 6,737.5', pumped at a rate of 5 BOPD, 6 BWPD, 38 MCFGPD at 50 PSI tubing pressure. (This is 1971 GOR Test taken before the zone was Temporarily Abandoned).

VACUUM GLORIETA: On July 10, 1972, the Glorieta, Perforations: 6,077' to 6,186', pumped at a rate of 12 BOPD, 27 BWPD, 37 MCFPD at 50 PSI tubing pressure.
4. Neither zone is capable of producing more water than the combined oil limit as determined in Rule 303, Paragraph C, (d); i.e., 40 BWPD.
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.
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 and water for each zone since January, 1969.
9. The production from the Vacuum Blinebry was by artificial lift before its temporary abandonment and the production from the Vacuum Glorieta is by artificial lift. If this application for downhole commingling is approved, the commingled production will be artificially lifted. There is no recent Bottomhole Pressure available for these two marginal pools, as it was not economical to run Bottomhole Pressure Surveys, because of multiple or tubingless completions; hence, the Bottomhole Pressure Surveys are not enclosed.
10. Downhole commingling will not jeopardize the efficiency of future secondary operations in either zone.
11. The mechanical sketch of the present completion is attached.
12. Copies of this Application have been furnished to Offset Operators.

An approval of this Application is requested, because this proposed commingling would result in the recovery of additional oil from each of the commingled zones in the subject well, thereby preventing waste and protecting correlative rights.

GETTY OIL COMPANY
APPLICATION FOR DOWNHOLE COMMINGLING
STATE "BA" WELL NO. 9
NMOCC - SANTA FE
AUGUST 30, 1972

PAGE NO. 3

Very truly yours,
GETTY OIL COMPANY

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

MAILING LIST

✓ 2 CC: NMOCC
P. O. Box 2088
Santa Fe, New Mexico 87501

1 CC: Getty Oil Company
P. O. Box 1231
Midland, Texas 79701

1 CC: Continental Oil Company
P. O. Box 460
Hobbs, New Mexico 88240

1 CC: Mobil Oil Corporation
P. O. Box 1800
Hobbs, New Mexico 88240

1 CC: Texaco, Inc.
P. O. Box 728
Hobbs, New Mexico 88240

1 CC: Mr. R. S. Morris
Montgomery, Federici, Andrews,
Hannahs and Morris
Post Office Box 2307
Santa Fe, New Mexico 87501

1 CC: NMOCC
P. O. Box 1980
Hobbs, New Mexico 88240

1 CC: Getty Oil Company
Attn: Mr. E. H. Shuler
P. O. Box 1404
Houston, Texas 77001

1 CC: Marathon Oil Company
P. O. Box 2409
Hobbs, New Mexico 88240

1 CC: Phillips Petroleum Company
P. O. Box 2130
Hobbs, New Mexico 88240

1 CC: Getty Oil Company
P. O. Box 249
Hobbs, New Mexico 88240
(FILE)

GETTY OIL COMPANY
STATE "BA" WELL NO. 9
VACUUM GLORIETA POOL
VACUUM BLINEBRY POOL
LEA COUNTY, NEW MEXICO

APPLICATION FOR DOWNHOLE COMMINGLING

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03

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"A"
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31

State Do. Com.

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MARATHON
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03 08

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H.B.P.
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07 02

Santa Fe
Battery 2
05

SHELL
H.B.P.
02-D
01-D

PHILLIPS
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SHELL
H.B.P.
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MARATHON

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McCallister State

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State

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State Bridges State

CONTINENTAL
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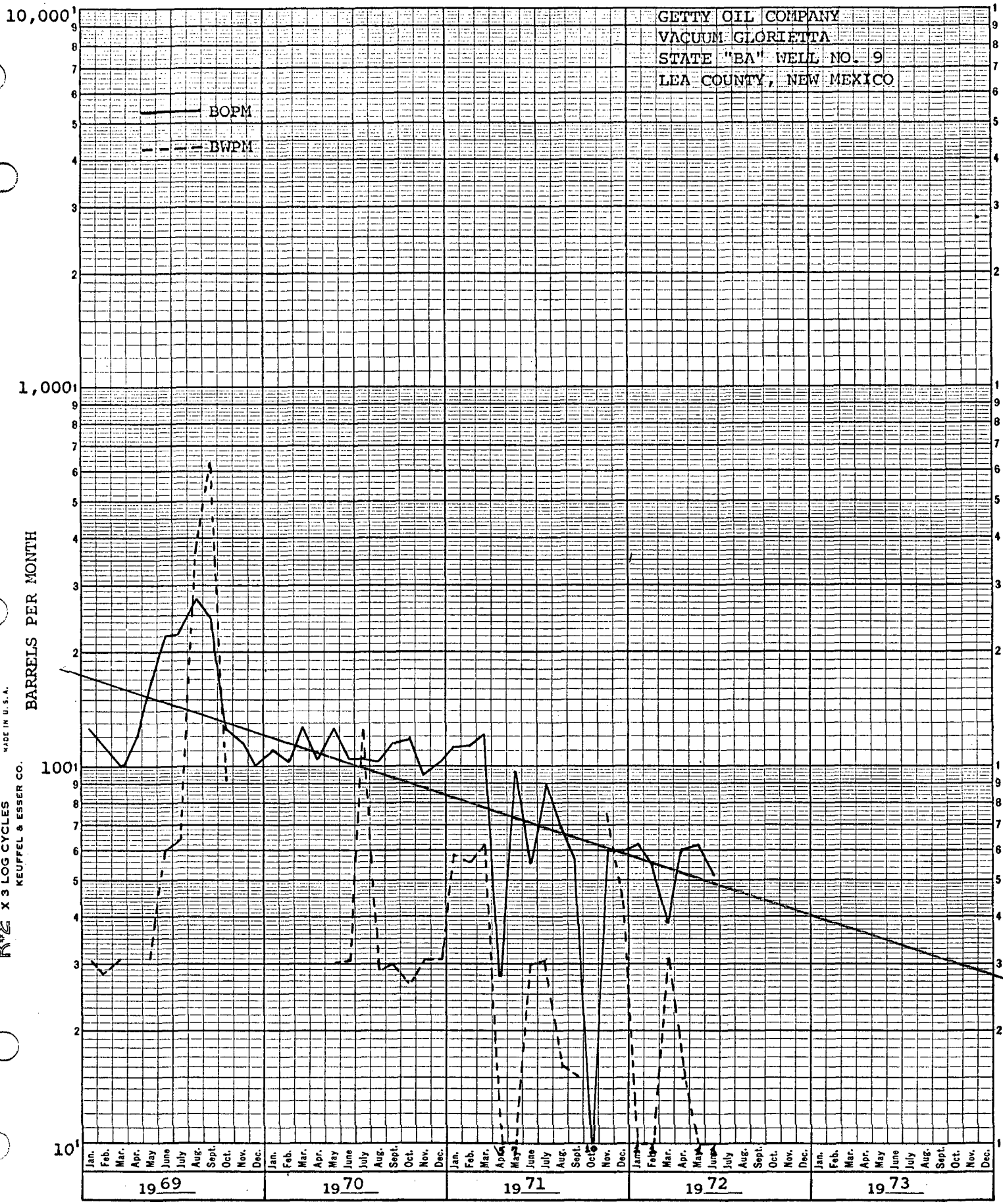
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06 30 08
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State

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

BARRELS PER MONTH



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

10,000

GETTY OIL COMPANY
 VACUUM-BLINEBRY
 STATE "BA" WELL NO. 9
 LEA COUNTY, NEW MEXICO

BOPM

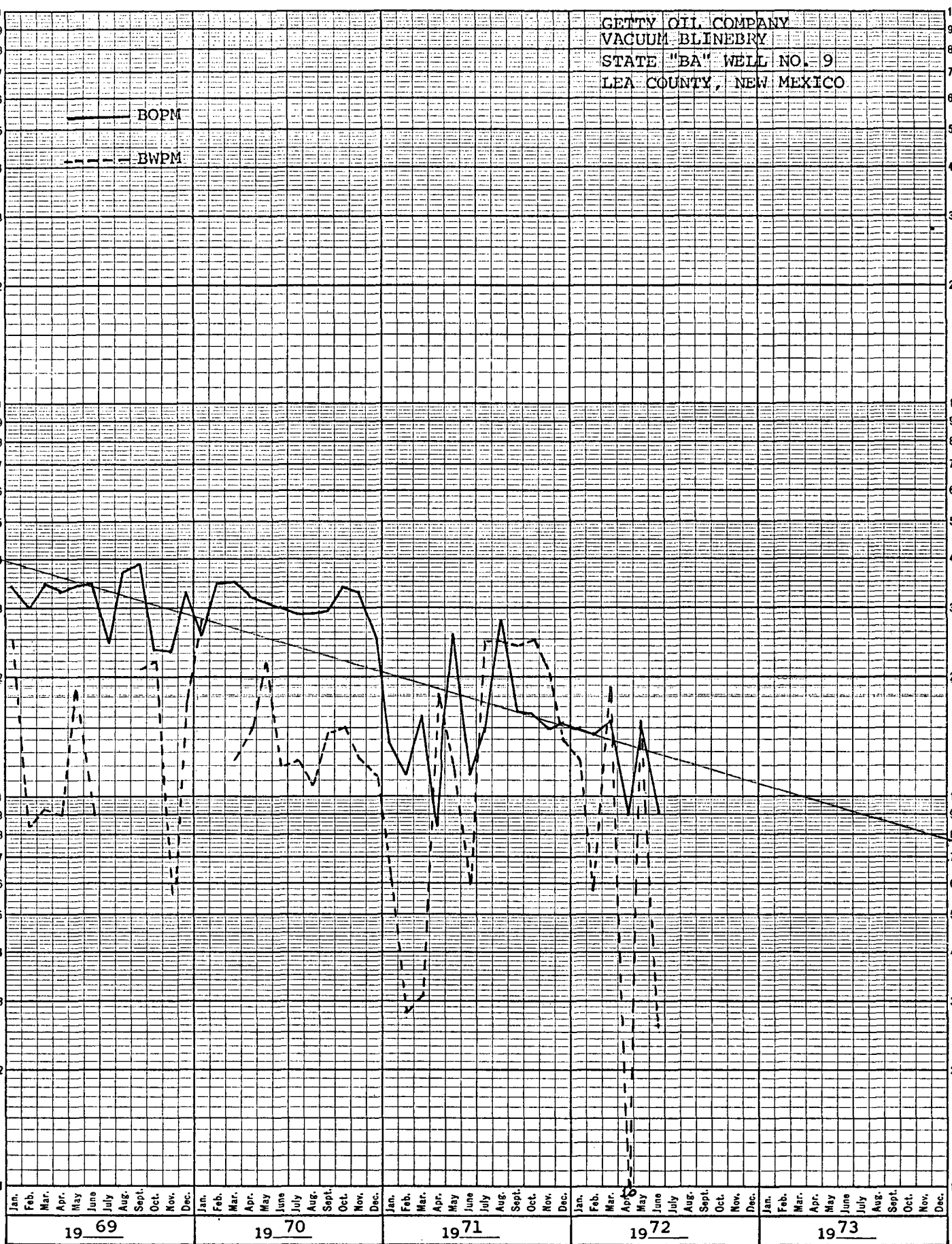
BWPM

1,000

BARRELS PER MONTH

100

10



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

C-116
Revised 1-1-65

Operator GETTY OIL COMPANY		Pool VACUUM GLORIETA		County LEA												
Address P. O. BOX 249, HOBBS, NEW MEXICO 88240		TYPE OF TEST - (X)		Completion ☐ Scheduled ☐ Special ☒												
LEASE NAME	WELL NO.	LOCATION			DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOWABLE	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" LEASE	9	B	36	17	34	7-10-72	P	-	50#	16	24	27	36.7	12	37	3,083
APPLICATION TO DOWNHOLE COMMINGLE GLORIETA AND BLINEBRY																

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

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.

C.L. Wade
C.L. WADE (Signature)
 AREA SUPERINTENDENT
 (Title)
 AUGUST 30, 1972
 (Date)

NEW MEXICO OIL CONSERVATION COMMISSION
GAS-OIL RATIO TESTS

C-116
Revised 1-1-65

Operator GETTY OIL COMPANY		Pool VACUUM BLINEBRY		County LEA												
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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 BBLs.	GRAV. OIL		OIL BBLs.	GAS M.C.F.	
STATE "BA" LEASE	9	B	36	17	34	8-27-71	*	-	50	11	24	6	37.4	5	38	7,600
*The Blinebry was temporarily Abandoned during June 1972. The above test is 1971 GOR Test.																
APPLICATION TO DOWNHOLE COMMINGLE BLINEBRY AND GLORIETA.																

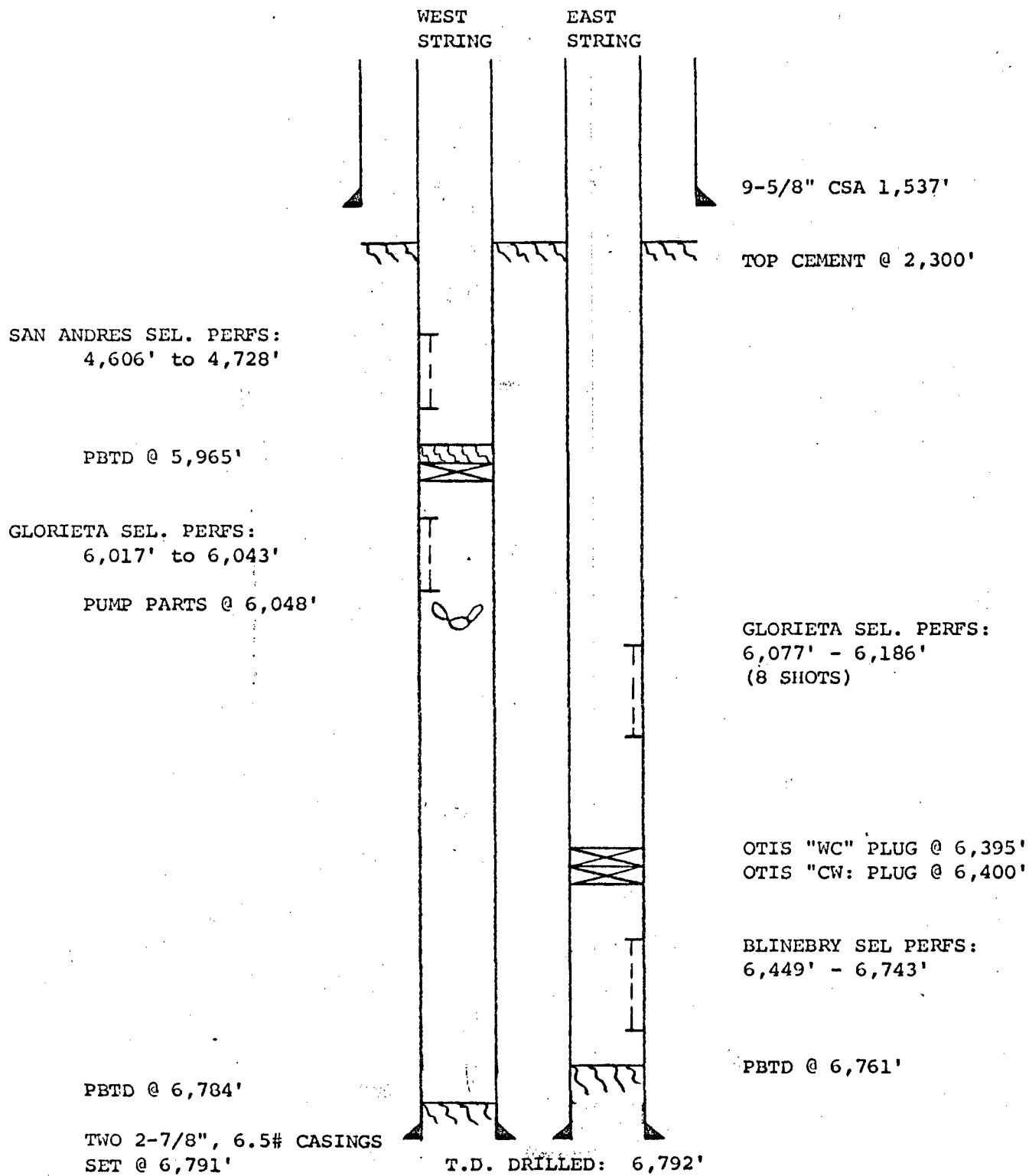
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C.L. Wade
C.L. Wade (Signature)
AREA SUPERINTENDENT

AUGUST 30, 1972 (Date)

MECHANICAL SKETCH



LAW OFFICES OF
JENNINGS, CHRISTY & COPPLE

JAMES T. JENNINGS
SIM B. CHRISTY IV
ROGER L. COPPLE
BRIAN W. COPPLE

1012 SECURITY NATIONAL BANK BUILDING
P. O. BOX 1180
ROSWELL, NEW MEXICO 88201

TELEPHONE 622-8432
AREA CODE 505

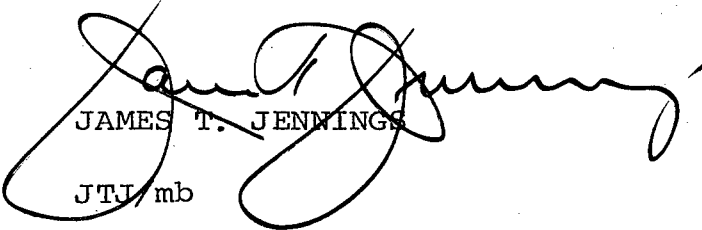
August 30, 1972

J. J. Travis, Box 5614, Midland, Texas 79701
AMOCO Production Corporation, Box 591, Tulsa, Oklahoma 74102
Gulf Oil Corporation, Box 670, Hobbs, New Mexico 88240
J. M. Welch, Box 496, Artesia, New Mexico 88210

RE: SHENANDOAH OIL CORPORATION APPLICATION FOR ADMINISTRATIVE
APPROVAL OF CONVERTING ITS GULF NO. 2 WELL LOCATED 1650
FEET FROM THE NORTH LINE AND 330 FEET FROM THE EAST LINE
OF SECTION 28, TOWNSHIP 18 SOUTH, RANGE 31 EAST, N.M.P.M.,
INTO A WATER INJECTION WELL

Gentlemen:

Enclosed herewith you will find a copy of an Application which is
being filed today on behalf of Shenandoah Oil Corporation for ad-
ministrative approval of its Gulf No. 2 Well to a water injection
well in the Shugart Pool. A copy of the Application is sent to you
as an operator offsetting the proposed injection well in accordance
with the provisions of Oil Conservation Commission Rule 701-E-5.



JAMES T. JENNINGS

JTI/mb

Encl: Logs not enclosed, copies will be furnished upon request.

cc: Oil Conservation Commission