

Case Number

W 888

Application
Transcripts.

Small Exhibits

ETC.

BEFORE THE
NEW MEXICO OIL CONSERVATION COMMISSION
OIL CONSERVATION COMMISSION CONFERENCE ROOM,
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO
January 3, 1973
EXAMINER HEARING

IN THE MATTER OF:

Application of Getty Oil Company for
downhole commingling, Lea County,
New Mexico.

Case No. 4888

BEFORE: Daniel S. Nutter,
Examiner

TRANSCRIPT OF HEARING

1 MR. NUTTER: Call Case 4888.

2 MR. CARR: Case 4888, application of Getty Oil
3 Company for downhole commingling, Lea County, New Mexico.

4 MR. MORRIS: Dick Morris of Montgomery, Federici,
5 Andrews, Hannahs and Morris, Santa Fe, appearing on behalf of
6 Getty Oil Company, applicant. We have one witness, Mr. Miller,
7 and ask that he be sworn.

8 EUGENE J. MILLER,

9 a witness, having been first duly sworn according to law, upon
10 his oath, testified as follows:

11 DIRECT EXAMINATION

12 BY MR. MORRIS:

13 Q Mr. Miller, will you please state your name and where
14 you reside?

15 A Eugene J. Miller, 611 West Silver in Hobbs, New Mexico.

16 Q By whom are you employed and in what capacity?

17 A Getty Oil Company as the Area Engineer, Hobbs area.

18 Q Have you previously testified before the Commission or
19 its examiners and had your qualifications established as
20 a matter of record?

21 A Yes, I have.

22 Q What is it that Getty Oil Company seeks in this case?

23 A This well was completed in 1961 as a dual Abo and
24 Wolfcamp, and approval was obtained to downhole it to
25 dual complete it at that time in 1963. Administrative

1 approval to downhole commingle the Abo and Wolfcamp was
2 obtained in June, 1916.

3 At that time we intended to go in to perforate the
4 Pennsylvanian zone which is below the Abo and Wolfcamp
5 and run an extra string of tubing and flow it, test it
6 and then come before the Commission and ask permission to
7 downhole commingle the Abo and Wolfcamp. When we tested
8 the Penn zone, it wouldn't flow. So we had to pump it.

9 So we ran a packer and set it above the Penn zone
10 and tested the Penn zone; and we have tests on it. Now,
11 we are simply requesting that the Penn zone be added to
12 the Abo and Wolfcamp for downhole commingling so that we
13 can pump all three with one pumping unit.

14 Q Mr. Miller, more specifically let's identify the well
15 that we are referring to in this case. Can you identify
16 that well by referring to the plat which is part of
17 Exhibit 1 in this case?

18 A Excuse me. This is Well Number 6, our State "BA" Number
19 6. It is in Proration Unit D.

20 Q All right. Now, while we are looking at that plat, would
21 you point out your State "BA" Number 8 Well?

22 A It is in Proration Unit B.

23 Q I'd like to point out to the Examiner that the Well
24 Number 8 was the subject of Case 4821 which involved
25 downhole commingling of the same three zones that are

1 involved in this case; and it was approved on September
2 27, 1972 by Order No. R-4406.

3 All right, Mr. Miller, would you go ahead with your
4 explanation following as an outline the original
5 application that you made to the Commission. Referring
6 back now to Well Number 6, the subject well, when was it
7 dually completed and when was authority obtained from the
8 Commission approving that dual completion in the Abo and
9 the Wolfcamp zones?

10 A The well was dually completed in June 10, 1963. An
11 Order No. MC-1332 gave permission to dually complete that
12 well.

13 Q All right. I think that you previously mentioned that
14 you had already obtained authority for downhole commingling
15 of those two zones, the Abo and the Wolfcamp. What
16 administrative order of the Commission gave you that
17 authority?

18 A DHC-116, June 8, 1972.

19 Q What is the current status of this well?

20 A There is a downhole schematic with this attachment. This
21 shows proposed completion, but this is the present
22 completion. This was made out for our field people to
23 set up. A packer is set above the Upper-Penn perforations
24 and the Wolfcamp and Abo are sealed off and non-productive
25 at the present time.

1 There is a feeding nipple down below the packer that
2 the pump is sitting in. We are drawing the production
3 from the Penn perforations and pumping it, and the
4 Wolfcamp and Abo are sealed over and not producing at
5 the present time.

6 Q Now, if your application is granted, how would this
7 arrangement be changed?

8 A We'd simply have to pull the rods, go in with a waiver
9 line, and shift the sliding sleeve that is designated
10 above the packer to open the Abo and Wolfcamp perforations
11 to the tubing. Then set the pump in the upper feeding
12 nipple, and then we could pump all these zones together.

13 Q You would leave the packer in the hole?

14 A Yes. The packer would stay in as a tubing hole down-
15 pumping at 10,000 feet. The tubing should be held from
16 working. It will work up and down pretty badly so we
17 just leave it in there as the anchor.

18 Q Now, would you explain again or perhaps in more detail,
19 Mr. Miller, why you seek the downhole commingling rather
20 than producing these zones through tubing?

21 A Well, originally as I said before, we had planned on
22 testing the Penn perforations in that packer we sat down
23 there. We had planned to run a 2-inch string of tubing
24 down to it and run the 2-inch tubing down to 9200 feet
25 and pump the other two perforations; but after the Penn

1 perforations would not flow, we had to set the pump
2 below 10,000 feet which requires one of these rods to
3 obtain enough thinning in the rod string and run the
4 1-inch rods. We had to run some 2 7/8" tubing at the
5 top. That's why the tubing string is tapered.

6 Q In other words, you had intended to use the administrative
7 approval which you had for downhole commingling of the
8 Abo and Wolfcamp and then flow the Pennsylvanian?

9 A That's correct.

10 Q When the Pennsylvanian wouldn't flow, you are now, in
11 effect, coming in and asking to add it to the authority
12 that you already have to commingle the Abo and the
13 Wolfcamp?

14 A That's correct.

15 Q Do you have current tests on each of these zones?

16 A The Table I is a, well, let me back up first. We have
17 the fine curves on the Penn and the Wolfcamp toward the
18 back. There is about three and a half years production
19 on each the Abo and the Wolfcamp until the time, until
20 October when the Penn zone was opened up and, of course,
21 the Abo and Wolfcamp were sealed off at that time. And
22 in October when we opened up the Penn zone, Table I shows
23 the production for about 20 days; and the average during
24 that time, this water on the right-hand side is load
25 water. You can see how it decreased down to nothing. It

1 is making practically no water now, maybe a barrel or
2 less.

3 I have these tests. In addition, right before I
4 left Hobbs, I obtained three more tests. December 29 had
5 produced 64 barrels of oil and 1 barrel of water. The
6 30th, it produced 53 barrels of oil, and the 31st it
7 produced 50 barrels of oil. The production does fluctuate
8 somewhat, but it is in that general range. It looks like
9 maybe 50, 53 barrels would be a good average on it.

10 Q What was the production of water during those last two
11 tests?

12 A We have only 1 barrel of water reported. The water
13 practically depleted.

14 MR. NUTTER: So we can put 1 barrel for the 29th
15 and 0 for the 30th and 31st; is that correct?

16 THE WITNESS: Yes, sir.

17 Q (By Mr. Morris) All right. Now, do you have current
18 tests or what are your most current tests on your Abo
19 and Wolfcamp zones?

20 A Well, the most current test that I have is in the
21 proposal. Well, we have some tests probably in our
22 records; but here is one, May 14, of 18 barrels of oil,
23 and that's on the Abo. And on May 13, 20 barrels of oil.
24 This was submitted before to the Commission.

25 Q All right. Is this typical for these tests? Do you have

1 any reason to think that that is not a typical production
2 from either of those zones?

3 A No, sir. We can refer back to the decline curves and
4 I would throw out the plot for October because the well
5 was worked over in mid-October.

6 MR. NUTTER: So that doesn't represent a full
7 month's production.

8 THE WITNESS: No, sir. It doesn't.

9 Q (By Mr. Morris) Is that true on both the Wolfcamp and
10 the Abo?

11 A Yes, sir. The tubing was pulled in mid-October and
12 recompleted to the Penn zone; but the separate production
13 is 16 barrels average on the Abo and about 16.7 or 17
14 barrels average on the Wolfcamp. So I would say that they
15 are reasonable. We have pretty good history to that.

16 Q If this application is approved and production is allocated
17 to the basis of well tests, what percentage would you
18 suggest be allocated to each zone using this test data?

19 A I think that we can probably go back to these, the
20 original request for downhole commingling and use 18
21 barrels for the Abo, 20 barrels for the Wolfcamp, and
22 50 barrels for the Penn. That would be 21 per cent to the
23 Abo and 22 per cent to the Wolfcamp and 57 per cent to
24 the Penn. The Penn will probably produce a little flush
25 production.

1 Q All right. Does the production from any two of the zones
2 exceed the 80-barrel limit that is prescribed by Rule
3 303?

4 A On some days. I might look back at Table I and also the
5 most recent production that I gave. We did make 64
6 barrels on one day in late December, and we would be
7 allocating 20 barrels to the Wolfcamp. So that would be
8 84. That would be over 80 barrels, and we do feel that
9 by putting all three zones together that we would be
10 making in excess of 80 barrels a day.

11 Q What is your proposal that the production be limited to
12 for all three zones?

13 A We propose that the production be limited to 120 barrels,
14 which would get back to 40 barrels per zone which is the
15 same ratio that would be allowed for the administrative
16 approval to do that on the other two zones.

17 Q In other words, under Rule 303 as applied to two zones,
18 the lower-most zone is below 10,000 feet. So you would
19 be entitled under as far as administrative approval is
20 concerned to an 80-barrel limit.

21 A Yes, and we receive that by this order that --

22 Q When you are adding a third zone, you are proposing that
23 that be increased to 120 barrels?

24 A Yes.

25 Q You pointed out that maybe on some days two zones might

1 exceed 80 barrels; but on a monthly average would that
2 be true?

3 A I don't think it is on a monthly average. We have gone
4 down and up and I'd say that one of the reasons for this
5 is probably the mechanical setup we have. We are pumping
6 under a packer and the gas was to come through the pump,
7 and this is a bad situation really. So it may settle
8 down after this time, after we are able to vent the gas.

9 Q Was the water production from these three zones considered
10 separately and cumulatively?

11 A Neither of these zones have made very much water during
12 their lifetime. I think these tests are representative.
13 Each of them show 1 barrel of water per day. One barrel
14 on Abo and one barrel on Wolfcamp, and it might be one
15 barrel on the Penn. So we are looking at three barrels
16 a day. Negligible but --

17 Q Would downhole commingling of these three zones present
18 any problem concerning the compatibility of fluids?

19 A No, sir. We obtained permission to surface commingle at
20 the time this lease was developed in the earlier 60's;
21 and we have been commingling and marketing and co-buying
22 since that time.

23 Q Will commingling of the oil result in any reduction in
24 value?

25 A No, sir. We've, they will be commingled under

1 Administrative Order PC-147, to commingle it. So it will
2 not.

3 Q Is the ownership of each of these three zones common?

4 A They are. It's all a State lease.

5 Q What are the pressures in the three zones?

6 A I have them down here. I think there is an attachment
7 of the bottomhole pressure that was run in Number 8.
8 We thought that Number 8 would be representative. It's
9 on the same lease and one proration unit away. The pressure
10 in the Upper-Penn at 10,000 feet was 1104 pounds, and
11 the Wolfcamp at 9750 feet which is 250 feet lower, and
12 you expect a lower pressure, 897 pounds. And in the Abo
13 at 9100 feet which is another 650 feet higher, 536 pounds.
14 So the draining is higher toward the top as you would
15 expect it.

16 Q Would the pressure differential cause problems in
17 producing this well or present any probability that waste
18 is going to be caused by its installation?

19 A No. I do not, in that there is no incompatibility in
20 the fluids. And anytime that the well would be shut down,
21 there may be a small amount of cross-flow, possibly no
22 more than pulling a well. You are always going to have
23 some cross-flow, but the fluid level will build up to
24 where it will offset this difference in pressure between
25 the reservoirs somewhat, of course, if it can't completely.

1 Predominantly, when the well is on production, the
2 low pressure zone will be inside the wellbore. The pump
3 will be set near 10,000 feet. So the influxion of
4 fluid would be in the wellbore. No, sir.

5 Q In the Commission order approving downhole commingling
6 on your State "BA" Well Number 8, the Commission made a
7 provision in its order that if the well is shut-in for
8 as much as seven days, that the Commission would be
9 notified and Getty would be required to present to the
10 Commission some plan for remedial action. Do you have
11 any objection to the inclusion of that type of provision
12 in an order concerning this well?

13 A I don't have any objection, although I don't think that
14 any damage would occur, but I wouldn't have any objection.

15 MR. NUTTER: You do agree, however, that there is
16 more danger of cross-flow from one zone into the other when the
17 well is shut-down?

18 THE WITNESS: Yes, sir. Like whenever you are
19 pulling a well, this is evidenced when you are trying to pull
20 a well and one well will take fluid and one will blow out
21 fluid.

22 MR. NUTTER: That was the intent on the previous
23 order.

24 THE WITNESS: Yes, I understand that.

25 Q (By Mr. Morris) Will downhole commingling jeopardize any

1 future secondary recovery operations in any one of these
2 three zones?
3 A No, sir. I don't think that it will. I can't see that
4 it will at this time.
5 Q Have your offset operators been notified of this
6 application and have you received any response from them?
7 A Yes, they have. They have received a copy and attached,
8 or copies of the waivers from Mobil, Continental, Texaco,
9 and --
10 Q Have you received any objection from any operator?
11 A No, sir.
12 Q Mr. Miller, in your professional opinion, is this
13 installation in accordance with good engineering practices?
14 A Before I answer that, let me add one more waiver. There
15 is a Phillips waiver.
16 Q Okay, sir.
17 A Yes, I think it is in accordance with good engineering
18 practices. If we would not be permitted to do this, we
19 would simply have to produce the Penn zone as we are now.
20 We have enough equipment on the well now to produce all
21 three zones. We can run an inch and a quarter pump and
22 pump all of the fluid that comes in the hole out of all
23 three zones, and it would be a definite economic
24 advantage to produce all three of them at one time
25 because it would be impossible to run another second

1 pumping string into the well at the present time.

2 We'd just have that lay production on the other two.

3 So, gentlemen, I think it would be. By so doing let me

4 add that you could lower the economic limit of all three

5 zones by being able to produce them together.

6 Q All right. For these reasons, would it be your opinion
7 that approval of this application would not only protect
8 your correlative rights but also prevent waste?

9 A Yes, sir.

10 Q Was Exhibit Number 1 and the attachments thereto prepared
11 by you or under your supervision?

12 A Yes, they were.

13 MR. MORRIS: We offer Exhibit Number 1 into evidence.

14 MR. NUTTER: Exhibit Number 1 with the attachments
15 will be admitted into evidence.

16 MR. MORRIS: That's all we have on Direct.

17 CROSS EXAMINATION

18 BY MR. NUTTER:

19 Q Mr. Miller, you mentioned that in pumping the
20 Pennsylvanian along with the other two zones you'd be
21 able to vent the gas from the Penn and may improve the
22 performance. Now, how is that gas going to be vented
23 if that packer remains in place?

24 A Let's look at that diagram. The flow will open the
25 sleeve and that sleeve will simply mean that that will be

1 a set of perforations above that packer and the suction
2 of the pump will be right there, and the perforations
3 would be allowed to come in the tubing, and they would be
4 allowed to go into the casing although I see what you
5 are getting at. They would probably rather go in.

6 Q You'll have oil coming in the perforations so can you have
7 gas going back out, too?

8 A Yes. That would be a cross-flow there, wouldn't it?
9 It wouldn't be the best situation, but the next time it
10 is pumped we could easily run an anchor.

11 Q A tubing anchor rather than a packer? Well, that packer
12 is going to have to be drilled out. That's a permanent
13 packer.

14 A Yes. What we could do is we could run us a set of
15 perforations above the packer in a blanking plug and
16 then another set of perforations, and this would make the
17 fluid come in through and into the annulus and then come
18 back into the tubing. And we would have a definite
19 separator that way. Do you follow that I'm getting at,
20 sir?

21 Q Yes. It just seems that to get better venting of the
22 Pennsylvanian it would be better to pull the tubing up
23 out of that packer; or, of course, you couldn't have an
24 anchor on your tubing; but it would hang in free above
25 the packer.

1 A That would be fine, but then the packer has a clapper
2 in the back of it. We would have to have some tubing
3 hanging in it. We could leave the field rings off of it
4 just to hold the clapper out. We could pull the tubing
5 and you'll have normal oil spill. Of course, you
6 naturally get holes in the tubing and have to change them.
7 Well, at that time I'm sure we'll change that setup. Yes,
8 sir. It's not the best setup, I'll agree.

9 MR. NUTTER: Are there any further questions of
10 Mr. Miller? You may be excused. Do you have anything further,
11 Mr. Morris?

12 MR. MORRIS: No, sir.

13 MR. NUTTER: Does anyone have anything they wish to
14 offer in Case 4888? If not, we will take the case under
15 advisement. The hearing is adjourned.
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1 STATE OF NEW MEXICO)
2) ss
3 COUNTY OF BERNALILLO)

4 I, JANET RUSSELL, a Court Reporter, in and for the
5 County of Bernalillo, State of New Mexico, do hereby certify
6 that the foregoing and attached Transcript of Hearing before
7 the New Mexico Oil Conservation Commission was reported by me;
8 and that the same is a true and correct record of the said
9 proceedings to the best of my knowledge, skill and ability.

10 I do hereby certify that the foregoing is
11 a complete record of the proceedings in
12 the Examiner hearing of Case No. 1817 *Janet Russell*
13 heard by me on June 3, 1973 COURT REPORTER

14 *[Signature]*, Examiner
15 New Mexico Oil Conservation Commission

I N D E X

13	WITNESS	PAGE
14	EUGENE J. MILLER	
15	Direct Examination by Mr. Morris	3
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E X H I B I T S

19	ADMITTED	OFFERED
20	15	15
21		
22		
23		
24		
25		

Exhibit #1



OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO
P. O. BOX 2068 - SANTA FE

... 475vi

January 29, 1973

**GOVERNOR
BRUCE KING
CHAIRMAN**

**LAND COMMISSIONER
ALEX J. ARMIJO
MEMBER**

STATE GEOLOGIST
A. L. PORTER, JR.
SECRETARY - DIRECTOR

Re: Case No. 4888

Order No. R-4468-A

Applicant:

Getty Oil Company

Mr. Richard S. Morris
Montgomery, Federici, Andrews,
Hanna & Morris
Attorneys at Law
Post Office Box 2307
Santa Fe, New Mexico

Dear Sir:

Enclosed herewith are two copies of the above-referenced Commission order recently entered in the subject case.

Very truly yours,

A. L. Porter

A. L. PORTER, Jr.
Secretary-Director

ALP/ir

Copy of order also sent to:

Hobbs OCC **X**

Artesia OCC

Aztec OCC

Other _____



OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO
P. O. BOX 2088 - SANTA FE
87501

**GOVERNOR
BRUCE KING
CHAIRMAN**

**LAND COMMISSIONER
ALEX J. ARMIJO
MEMBER**

**STATE GEOLOGIST
A. L. PORTER, JR.
SECRETARY - DIRECTOR**

January 9, 1973

Mr. Richard S. Morris
Montgomery, Federici, Andrews,
Hannahs & Morris
Attorneys at Law
Post Office Box 2307
Santa Fe, New Mexico

Re: Case No. 4888

Order No. R-4468

Applicant:

GETTY OIL COMPANY

Dear Sir:

Enclosed herewith are two copies of the above-referenced Commission order recently entered in the subject case.

Very truly yours,

A. L. Porter, Jr.

A. L. PORTER, Jr.
Secretary-Director

ALP/ir

Copy of order also sent to:

Hobbs OCC **X**

Artesia OCC

Aztec OCC

Other _____

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
COMMISSION OF NEW MEXICO FOR
THE PURPOSE OF CONSIDERING:

CASE NO. 4888
Order No. R-4468-A

APPLICATION OF GETTY OIL COMPANY
FOR DOWNHOLE COMMINGLING, LEA
COUNTY, NEW MEXICO.

NUNC PRO TUNC

BY THE COMMISSION:

It appearing to the Commission that Order No. R-4468, dated January 5, 1973, does not correctly state the intended order of the Commission in one particular due to error,

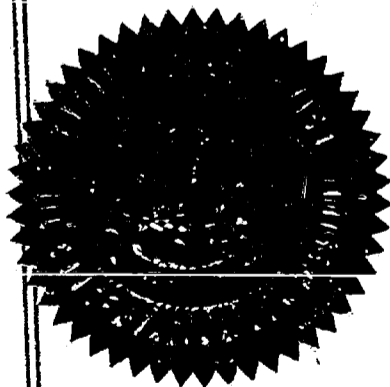
IT IS THEREFORE ORDERED:

(1) That Paragraph (3) on page 3 of Order R-4468, Case No. 4888, be and the same is hereby corrected to read in its entirety as follows:

"(3) That the commingling in the wellbore authorized by this order shall continue only so long as the commingled production of the three zones does not exceed 120 barrels of oil per day nor 120 barrels of water per day."

(2) That this order shall be effective nunc pro tunc as of January 5, 1973.

DONE at Santa Fe, New Mexico, this 29th day of January, 1973.



STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

Bruce King
BRUCE KING, Chairman

Alex J. Armijo
ALEX J. ARMILLO, Member

A. L. Porter, Jr.
A. L. PORTER, Jr., Secretary & Member

S E A L

dr/

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
COMMISSION OF NEW MEXICO FOR
THE PURPOSE OF CONSIDERING:

CASE NO. 4888
Order No. R-4468

APPLICATION OF GETTY OIL COMPANY
FOR DOWNHOLE COMMINGLING, LEA
COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on January 3, 1973,
at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 5th day of January, 1973, the Commission,
a quorum being present, having considered the testimony, the
record, and the recommendations of the Examiner, and being fully
advised in the premises,

FINDS:

(1) That due public notice having been given as required
by law, the Commission has jurisdiction of this cause and the
subject matter thereof.

(2) That the applicant, Getty Oil Company, is the owner
and operator of the State "BA" Well No. 6, located in Unit D
of Section 36, Township 17 South, Range 34 East, NMPM, Lea
County, New Mexico.

(3) That pursuant to authority granted by Administrative
Order MC-1332, said Well No. 6 was completed by the applicant
as a dual completion (conventional) to produce oil from the
North Vacuum-Abo and Vacuum-Wolfcamp Pools.

(4) That subsequent to the dual completion of the well
in the aforesaid two pools, the applicant also completed the
subject well to additionally produce oil from the Vacuum-Upper
Pennsylvanian Pool.

(5) That only marginal production was obtained from the
Vacuum-Upper Pennsylvanian Pool.

(6) That each of the three zones in the subject well is
capable of only low marginal production.

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Case No. 4888

Order No. R-4468

(7) That the applicant now seeks authority to complete said Well No. 6 in such a manner as to produce oil from the subject well through one string of 2 7/8-inch tubing, commingling in the wellbore the production from the North Vacuum-Abo, Vacuum-Wolfcamp, and Vacuum-Upper Pennsylvanian Pools.

(8) That the proposed commingling in the subject well of the three zones may substantially extend the productive lives of said zones in the subject well.

(9) That the reservoir characteristics of each of the zones in the subject well are such that underground waste would not be caused by the proposed commingling in the wellbore.

(10) That the proposed commingling may result in the recovery of additional oil from each of the commingled zones in the subject well, thereby preventing waste, and will not violate correlative rights.

(11) That the mechanics of the proposed completion are feasible and in accord with good conservation practices.

(12) That to afford the Commission the opportunity to assess the potential for waste and to expeditiously order appropriate remedial action the operator should notify the Hobbs District Office of the Commission any time the subject well is shut-in for seven consecutive days.

(13) That the allowable and commingled production should be allocated to each of the zones in the well upon the basis of 25 percent North Vacuum-Abo, 25 percent Vacuum-Wolfcamp, and 50 percent Vacuum-Upper Pennsylvanian.

(14) That approval of the subject application will prevent waste and protect correlative rights.

(15) That Administrative Orders MC-1332 and DHC-116 should be superseded.

IT IS THEREFORE ORDERED:

(1) That the applicant, Getty Oil Company, is hereby authorized to complete its State "BA" Well No. 6, located in Unit D of Section 36, Township 17 South, Range 34 East, NMPM, Lea County, New Mexico, in such a manner as to produce oil from the North Vacuum-Abo, Vacuum-Wolfcamp, and Vacuum-Upper Pennsylvanian Pools through one string of 2 7/8-inch tubing, commingling in the wellbore the production from the pools.

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Case No. 4888
Order No. R-4468

(2) That the allowable and commingled production shall be allocated to each of the zones commingled in the wellbore of the subject well on the basis of 25 percent to the North Vacuum-Abo, 25 percent to the Vacuum-Wolfcamp, and 50 percent to the Vacuum-Upper Pennsylvanian.

(3) That the commingling in the wellbore authorized by this order shall continue only so long as the commingled production of the two zones does not exceed 120 barrels of oil per day nor 120 barrels of water per day.

(4) That the maximum amount of gas which may be produced daily from the commingled zones in the subject well shall be determined by multiplying 2,000 by the top unit allowable for the Vacuum-Upper Pennsylvanian Pool.

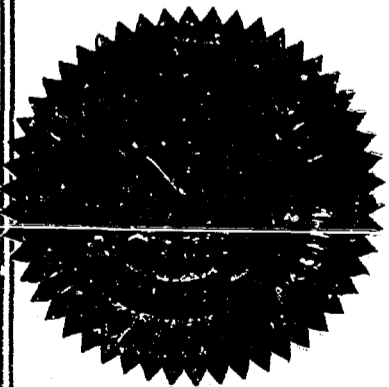
(5) That the operator of the subject well shall immediately notify the Commission's Hobbs district office any time the well has been shut-in for seven consecutive days and shall concurrently present to the Commission a plan for remedial action.

(6) That the applicant shall complete, operate, and produce said well in accordance with the provisions of Rule 112-A of the Commission Rules and Regulations insofar as said rule is not inconsistent with this order.

(7) That Administrative Orders MC-1332 and DHC-116 are hereby superseded.

(8) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.



STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

Bruce King
BRUCE KING, Chairman

Alex J. Armijo
ALEX. J. ARMILLO, Member

A. L. Porter, Jr.
A. L. PORTER, Jr., Member & Secretary

S E A L

dr/

DOCKET: EXAMINER HEARING - WEDNESDAY - JANUARY 3, 1973

9 A.M. - OIL CONSERVATION COMMISSION CONFERENCE ROOM,
STATE LAND OFFICE BUILDING - SANTA FE, NEW MEXICO

The following cases will be heard before Daniel S. Nutter, Examiner, or Elvis A. Utz, Alternate Examiner:

CASE 4723: (Continued from May 17, 1972 and July 12, 1972 Examiner Hearings)

Application of Black River Corporation for pool abolishment, creation of two new gas pools, and a dual completion, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the abolishment of the Washington Ranch-Morrow Gas Pool, Eddy County, New Mexico, and the creation of the Washington Ranch-Upper Morrow and Washington Ranch-Lower Morrow Gas Pools for the production of gas from the upper and lower Morrow formations. Applicant further seeks approval of the dual completion (conventional) of its Cities 3 Federal Well No. 1 located in Unit F of Section 3, Township 26 South, Range 24 East, to produce the lower Morrow through tubing and the upper Morrow through the casing-tubing annulus.

CASE 4876: (Continued from the December 19, 1972 Examiner Hearing)

Application of Gulf Oil Corporation for an unorthodox oil well location and amendment of Order No. R-2248, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to drill its West Dollarhide Devonian Unit Well No. 118 at an unorthodox location 2540 feet from the South line and 1420 feet from the West line of Section 33, Township 24 South, Range 38 East, West Dollarhide-Devonian Pool, Lea County, New Mexico. Applicant further seeks the amendment of Order No. R-2248 to provide for administrative approval of additional production and injection wells in the aforesaid unit at unorthodox locations.

CASE 4886: Application of Gulf Oil Corporation for two non-standard proration units, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for two non-standard 80-acre oil proration units comprising the SW/4 NE/4 and NW/4 SE/4, and the SW/4 SE/4 and SE/4 SW/4, of Section 16, Township 24 South, Range 37 East, Fowler-Upper Yeso Pool, Lea County, New Mexico, to be dedicated to applicant's J. R. Holt (NCT-A) Well No. 4 located in Unit J and proposed Well No. 5, to be located in Unit O, respectively, of said Section 16.

CASE 4482: (Reopened)

In the matter of Case 4482 being reopened pursuant to the provisions of Order No. R-4093-A, which order continued the special rules and regulations for the Parkway-Strawn Pool, Eddy County, New Mexico, for a period of one year. All interested parties may appear and show cause why said special pool rules should be further extended.

CASE 4887: Application of GeoElectric, Inc. for downhole commingling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of gas production from the Aztec-Fruitland and Aztec-Pictured Cliffs Gas Pools in the wellbore of its Ransom Well No. 1 located in Unit I of Section 13, Township 29 North, Range 11 West, San Juan County, New Mexico.

CASE 4888: Application of Getty Oil Company for downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks as an exception to Rule 303 of the Commission Rules and Regulations, authority to commingle production from the North Vacuum-Abo, Vacuum-Wolfcamp, and Vacuum-Upper Pennsylvanian Pools in the wellbore of its State "BA" Well No. 6 located in Unit D of Section 36, Township 17 South, Range 34 East, Lea County, New Mexico.

CASE 4889: Application of Universal Resources Corporation for a non-standard proration unit or in the alternative for compulsory pooling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks approval for a non-standard gas proration unit comprising the SW/4 and S/2 SE/4 of Section 16, Township 32 North, Range 12 West, Blanco-Mesaverde Pool, San Juan County, New Mexico, to be dedicated to a well to be drilled approximately 1190 feet from the South line and 1850 feet from the West line of said Section 16, or, in the alternative, applicant seeks an order pooling all mineral interests in the Blanco-Mesaverde Pool underlying the entire S/2 of said Section 16 to be dedicated to the aforesaid proposed well. Also to be considered will be the costs of drilling said well, a charge for the risk involved, a provision for the allocation of actual operating costs, and the establishment of charges for supervision of said well.

CASE 4890: Application of Texaco Inc. for downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks as an exception to Rule 303 of the Commission Rules and Regulations, authority to commingle production from the North Vacuum-Abo, Vacuum-Wolfcamp, and Vacuum-Upper Pennsylvanian Pools in the wellbore of its Mobil State Well No. 1 located in Unit H of Section 25, Township 17 South, Range 34 East, Lea County, New Mexico.

CASE 4891: Southeastern New Mexico nomenclature case calling for an order for the abolishment, contraction and extension of certain pools in Lea, Chaves, and Eddy Counties, New Mexico.

(a) Abolish the Teague-Grayburg Pool in Lea County, New Mexico, described as:

TOWNSHIP 23 SOUTH, RANGE 37 EAST, NMPM
Section 20: SE/4
Section 21: SW/4

(b) Contract the Bagley-Pennsylvanian Pool in Lea County, New Mexico, by the deletion of the following described area:

(Case 4891, paragraph (b), continued from page 2)

TOWNSHIP 11 SOUTH, RANGE 33 EAST, NMPM
Section 35: S/2 NW/4

(c) Extend the North Bagley-Pennsylvanian Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 11 SOUTH, RANGE 33 EAST, NMPM
Section 26: SW/4
Section 35: S/2 NW/4

TOWNSHIP 12 SOUTH, RANGE 33 EAST, NMPM
Section 10: S/2 NW/4

(d) Extend the Anderson Ranch-Wolfcamp Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 16 SOUTH, RANGE 32 EAST, NMPM
Section 9: SE/4
Section 10: S/2

(e) Extend the Bell Lake-Bone Spring Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 23 SOUTH, RANGE 34 EAST, NMPM
Section 31: SW/4

(f) Extend the East Brunson-Granite Wash Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 22 SOUTH, RANGE 37 EAST, NMPM
Section 13: SW/4
Section 24: NW/4

(g) Extend the South Carlsbad-Atoka Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 23 SOUTH, RANGE 26 EAST, NMPM
Section 1: W/2
Section 2: All
Section 3: E/2

(h) Extend the Cerca-Upper Pennsylvanian Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 14 SOUTH, RANGE 34 EAST, NMPM
Section 8: SW/4

Examiner Hearing - Wednesday - January 3, 1973
-4-

Docket No. 1-73

(Case 4891 continued from page 3)

(i) Extend the Double L-Queen Associated Pool in Chaves County, New Mexico, to include therein:

TOWNSHIP 15 SOUTH, RANGE 30 EAST, NMPM
Section 5: NW/4

(j) Extend the Flying "M"-San Andres Pool in Lea County, New Mexico, to include therein:

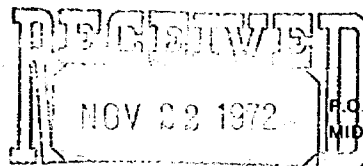
TOWNSHIP 9 SOUTH, RANGE 33 EAST, NMPM
Section 8: NW/4
Section 32: S/2
Section 33: SW/4

TOWNSHIP 10 SOUTH, RANGE 33 EAST, NMPM
Section 5: NW/4
Section 6: NE/4

(k) Extend the Maljamar Grayburg-San Andres Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 17 SOUTH, RANGE 33 EAST, NMPM
Section 14: SW/4
Section 15: S/2

Mobil Oil Corporation



OIL CONSERVATION COMM

November 20, 1972

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

GETTY OIL COMPANY'S APPLICATION
FOR DOWNHOLE COMMINGLING OF
STATE "BA" WELL NO. 6
NORTH VACUUM ABO, VACUUM WOLFCAMP,
AND VACUUM PENNSYLVANIAN POOLS,
LEA COUNTY, NEW MEXICO

Gentlemen:

Mobil Oil Corporation has received notice of Getty's request to downhole commingle production in the triple completion, State "BA" #6, Unit D, Section 36, T17S, R34E, Lea County, New Mexico, and hereby waives any objection to this application within the limits for total production set forth in Rule 303-C (b).

Yours very truly,

J. A. Morris

J. A. Morris
Production Engineering Supervisor

JHSeerey/cs

cc: Getty Oil Co.
P. O. Box 249
Hobbs, New Mexico 88240

DIV 2119

Case 4888

Getty

Getty Oil Company

North American Exploration and Production Division

P. O. Box 249,
Hobbs, New Mexico 88240

November 9, 1972

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
Vacuum Upper Pennsylvanian with
North Vacuum Abo and Vacuum Wolfcamp Pools,
Lea County, New Mexico

BEFORE EXAMINER NUTTER

OIL CONSERVATION COMMISSION

APPL. EXHIBIT NO. 1

CASE NO. 4888

Gentlemen:

Getty Oil Company respectfully requests approval to permit downhole commingling of the subject three (3) zones. The commingled production of the three zones will not exceed 120 barrels of oil per day.

This request for exception to Rule 303 A should be considered for Administrative Approval in accordance with the provisions provided in Rule 303 C.

In support of this application, the following information is submitted:

1. The attached plat shows the State "BA" Lease and Well No. 6 outlined in red and located 660' FNL and 860' FWL of 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. Administrative Order No. DHC-116 (June 8, 1972) authorized downhole commingling of the North Vacuum Abo and Vacuum Wolfcamp production.
4. The Vacuum Upper Pennsylvanian was perforated (10,121'-34') and treated. The Wolfcamp and Abo Zones are temporarily shut-in and sealed behind a packer. The Pennsylvanian Zone is being evaluated by pump testing. The mechanics involved in pumping at this depth requires 1" sucker rods and a 2-7/8" - 2" tubing string. The outside diameter of this equipment prohibits the running of two (2) strings of tubing inside of the 7" casing of the No. 6.

Getty's State "BA" Well No. 6
Downhole Commingling
NMOCC - Santa Fe, New Mexico

Page No. 2

5. 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 BWP, 51 MCFGPD at 60 PSI tubing pressure. Latest test before the commingling order. (Perforations: 9070' to 9231' selective).

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

VACUUM UPPER PENN: On November 7, 1972 the Upper Pennsylvanian pumped at a rate of 50 BOPD, 3 BWP, gas too small to measure, and the tubing pressure was 50 PSI. Average production from date of potential (10-16-72) thru November 7, 1972 is 53.8 BOPD (See Table I).

NMOCC Forms C-116 are attached. These producing rates do not exceed the limit set out in paragraph "C", (b) for any two of three zones.

6. Neither of the zones produce more water than the combined oil limit as determined in Rule 303, Paragraph "C", 1. (d).
7. Getty Oil Company has commingled these 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 three zones.
8. The surface commingling resulted in no reduction of oil value; therefore, downhole commingling will not reduce the oil value.
9. The ownership of the zones to be commingled is common.
10. Attached is a production decline curve showing the monthly production of oil for the North Vacuum Abo and the Vacuum Wolfcamp since January, 1969. The Vacuum Upper Pennsylvanian is a recently completed zone.

WELL COMPLETION HISTORY OF STATE "BA" WELL NO. 6 VACUUM UPPER PENN:

Perforated 7" casing in Penn. Zone from 10,121' to 10,134'. Set Baker Model D Production Packer at 10,045'. Treated with 2000 gals. 15% NE Acid. Swabbed back load. Did not flow and put on pump. On 24 hour potential test (10-16-72) Penn Zone pumped 66 BO, 85 BW, gas too small to measure. See Table I for a tabulation of production results.

11. The production from the North Vacuum Abo, the Vacuum Upper Penn, and the Vacuum Wolfcamp is by artificial lift. If the application for downhole commingling is approved, the commingled production will be artificially lifted. Twenty-four hours shut-in bottom hole pressures taken in May, 1972 on the State "BA" Well No. 8 (located 2400' East of Well No. 6) are 536 PSI at 9100' for the North Vacuum Abo, 897 PSI at 9750' for the Vacuum Wolfcamp, and 1104 PSI at 10,000' for the Vacuum Pennsylvanian. The bottom hole pressure surveys are enclosed.
12. Downhole commingling will not jeopardize the efficiency of future secondary operations in any zone.

Getty's State "BA" Well No. 6
Downhole Commingling
NMCCO - Santa Fe, New Mexico

Page No. 3

13. Copies of this application have been furnished to Offset Operators.
14. It is recommended that the production be allocated in proportion to the above outlined latest tests.

Very truly yours,
GETTY OIL COMPANY

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

MRR-EJM/bh
11-9-72
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

X 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

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

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

X 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)

TABLE I

<u>DATE</u>	<u>BBLS. OF OIL</u>	<u>BBLS. OF (LOAD) WATER</u>
10-16-72	66	85
10-17-72	70	76
10-18-72	65	72
10-19-72	38	32
10-20-72	35	57
10-21-72	37	44
10-22-72	41	35
10-23-72	43	28
10-24-72	49	21
10-25-72	52	15
10-26-72	58	12
10-27-72	59	11
10-28-72	59	9
10-29-72	WELL DOWN - PUMPING UNIT REPAIRS	
10-30-72	WELL DOWN - PUMPING UNIT REPAIRS	
10-31-72	WELL DOWN - PUMPING UNIT REPAIRS	
11-1-72	77	9
11-2-72	64	7
11-3-72	56	5
11-4-72	41	2
11-5-72	59	4
11-6-72	57	4
11-7-72	50	3

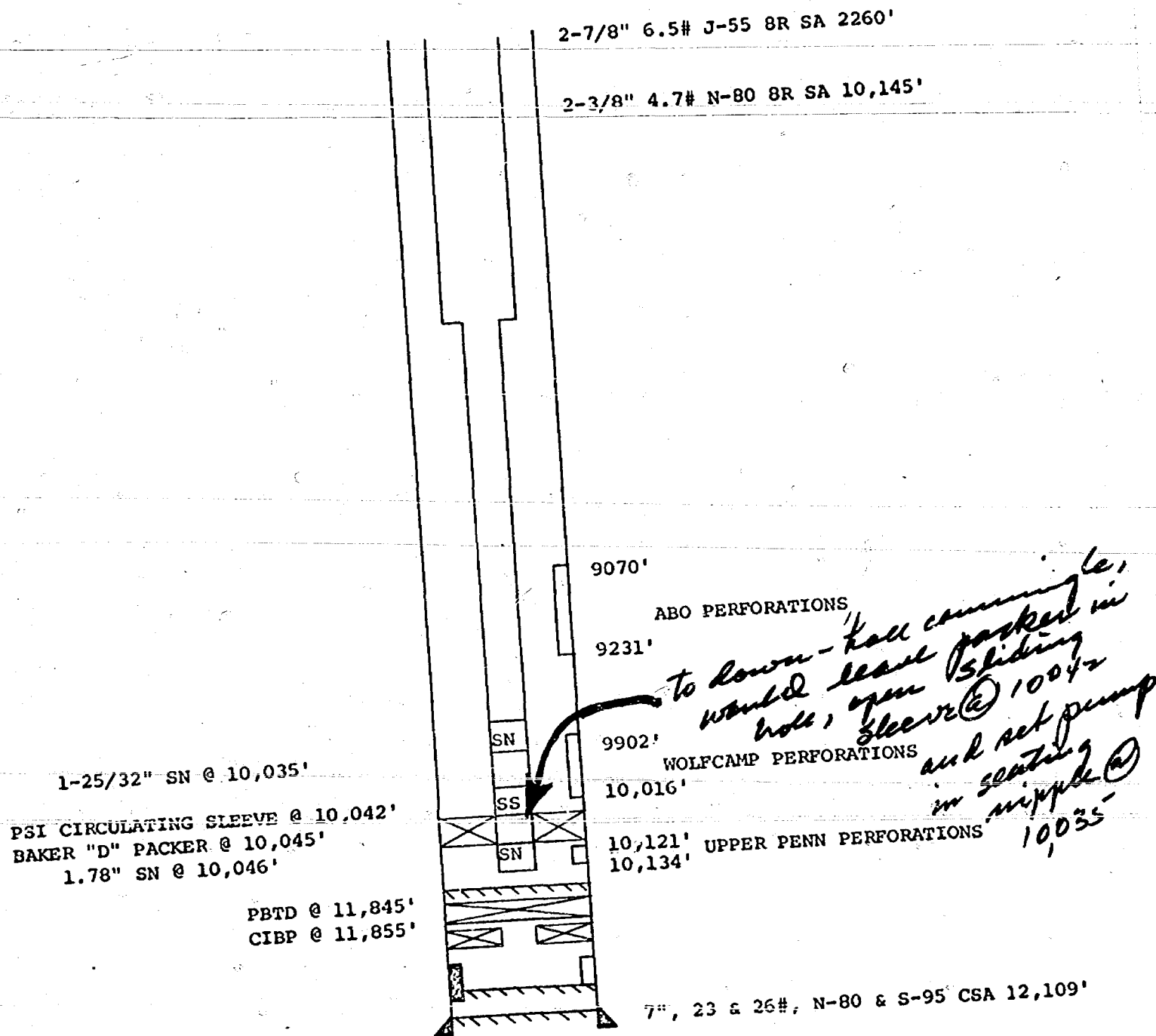
AVERAGE PRODUCTION FROM DATE OF POTENTIAL (OCTOBER 16, 1972) THRU
NOVEMBER 7, 1972 IS 53.8 BOPD.

12/29	64	1
1/30	53	0
1/31	50	0

MRR/bh
11-9-72

GETTY OIL COMPANY
STATE "BA" WELL NO. 6
APPLICATION TO DOWNHOLE COMMINGLE
ABO NORTH, WOLFCAMP, AND UPPER PENN ZONES
LEA COUNTY, NEW MEXICO

PROPOSED COMPLETION SKETCH



C-116
Revised 1-1-65

APPLICATION FOR DOWNHOLE COMMINGLING

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

C.L. Wade: C.L. Wade
(Signature)

AREA SUPERINTENDENT
(Title)

NOVEMBER 8, 1972
(Date)

MRR/bh

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

C-116
Revised 1-1-65

Operator GETTY OIL COMPANY		Pool VACUUM WOLF CAMP				County LEA									
Address P.O. BOX 249, HOBBS, NEW MEXICO 88240						TYPE OF TEST - (X)		Scheduled <input type="checkbox"/>		Completion <input type="checkbox"/>		Special <input checked="" type="checkbox"/>			
LEASE NAME	WELL NO.	LOCATION				DATE OF TEST	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"	6	D	36	17-S	34-E	5-13-72	20/64	175	28	24	1	41.3	20	238	11,900
APPLICATION FOR DOWNHOLE COMMINGLING															

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.

Original Signed By
C. L. Wade

(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 GETTY OIL COMPANY				Pool VACUUM ABO, NORTH				County LEA								
Address P.O. BOX 249, HOBBS, NEW MEXICO 88240								TYPE OF TEST - (X)		Scheduled <input type="checkbox"/>		Completion <input type="checkbox"/>		Special <input checked="" type="checkbox"/>		
LEASE NAME	WELL NO.	LOCATION				DATE OF TEST	STATUS	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"	6	D	36	17-S	34-E	5-14-72	P	-	60	16	24	1	39.1	18	51	2,833
APPLICATION FOR DOWNHOLE COMMINGLING																

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.

Original Signed By
C. L. Wade

(Signature)
AREA SUPERINTENDENT
(Title)

MAY 17, 1972
(Date)

HBS/bh

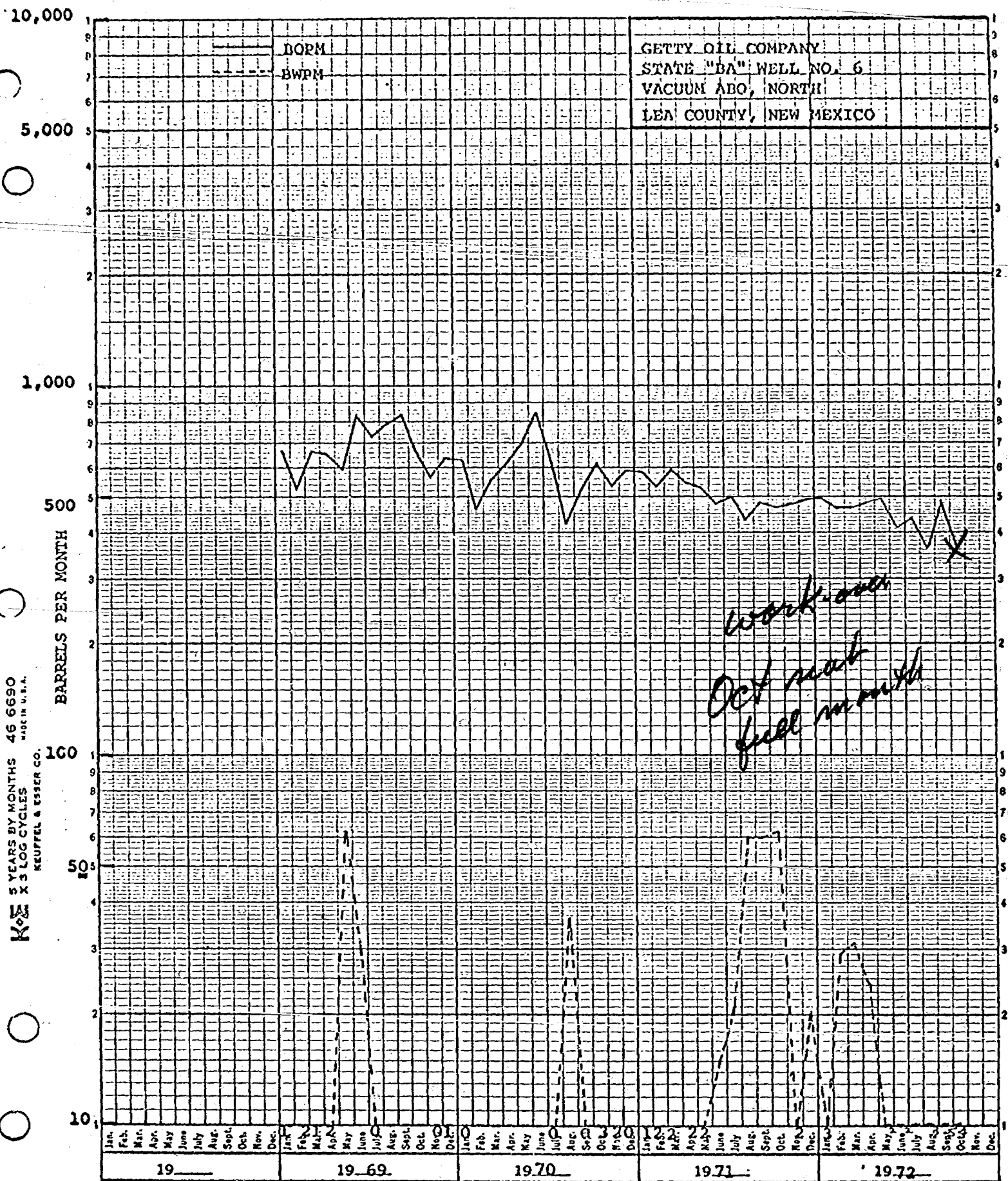


FIGURE NO. 2

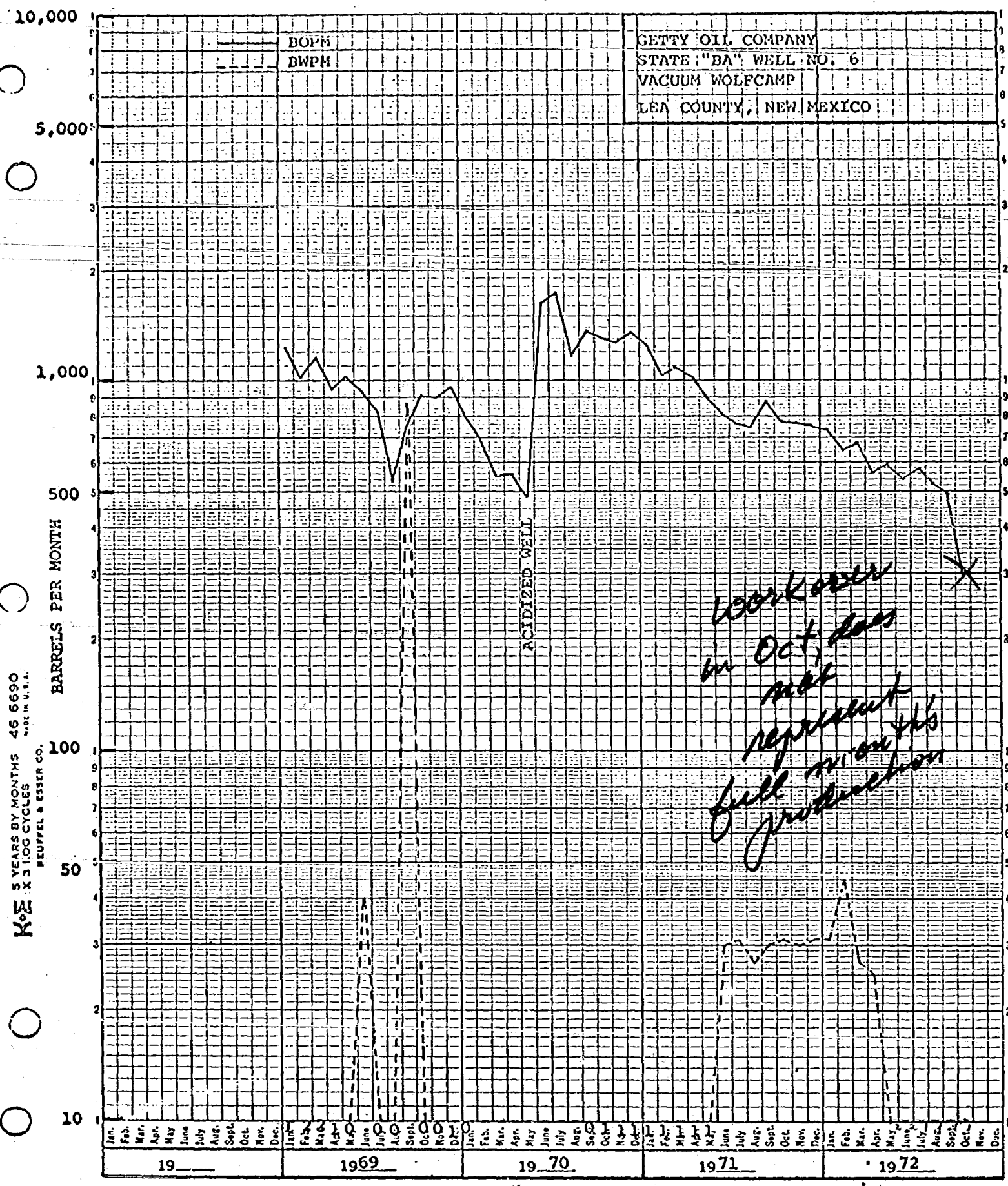


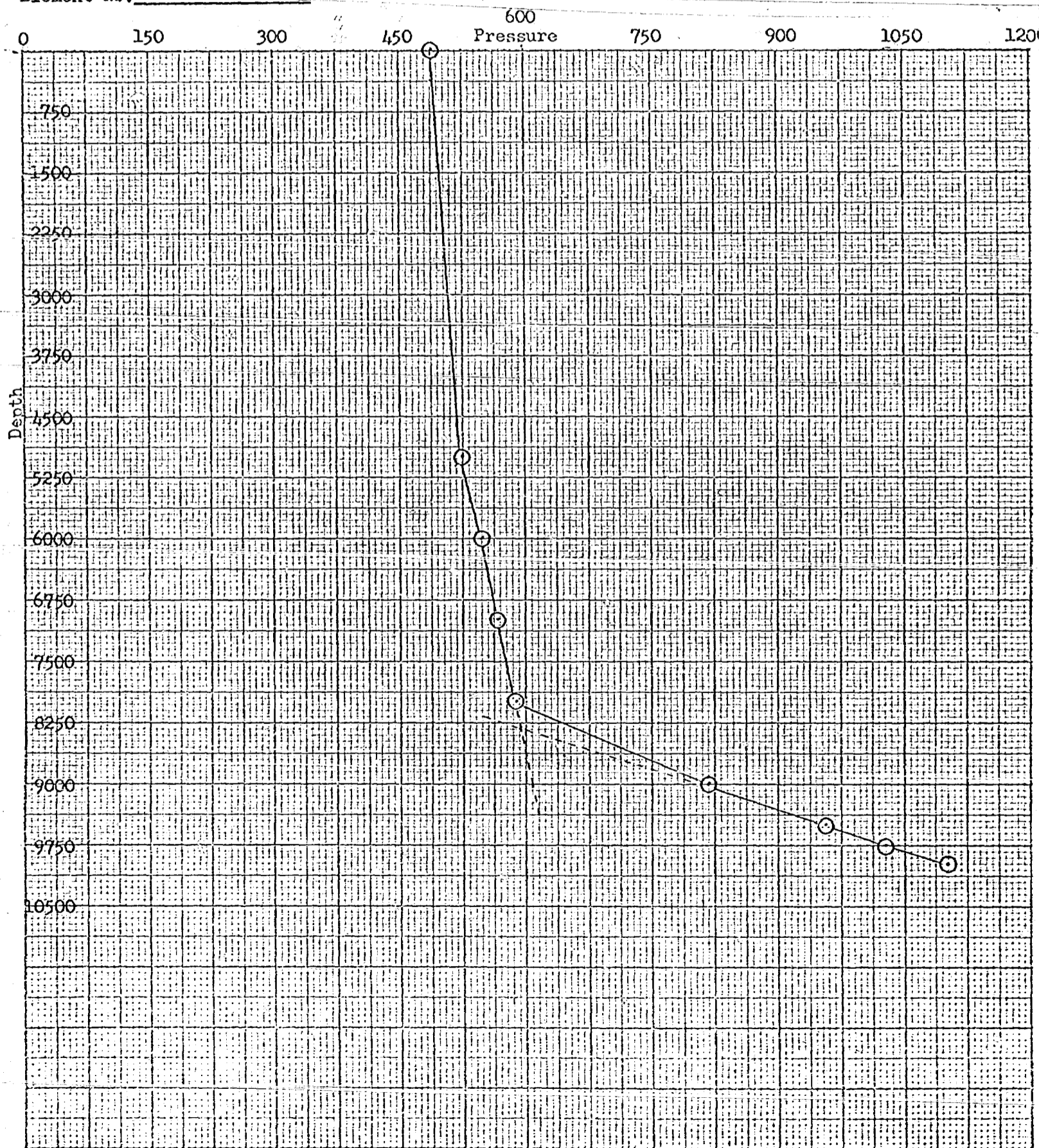
FIGURE NO. 3

OIL PORES AND GAS SERVICES,
P. O. BOX 763, HOBBS, NEW MEXICO

Telephone Numbers
393 2727 - 393 2017

BOTTOM HOLE PRESSURE SURVEY REPORT

	<u>Depth</u>	<u>Pressure</u>	<u>Gradient</u>
Operator <u>Getty Oil Company</u>	0	490	
Lease <u>State "BA"</u>	5000	525	.007
Well No <u>8</u>	6000	546	.021
Field <u>Vacuum Upper Penn</u>	7000	567	.021
Date <u>5/5/72</u> Time <u> </u>	8000	589	.022
Status <u>Flowing</u> Test Depth <u>10,000</u>	9000	820	.231
Time S. I. <u>26 hours</u> Last Test Date <u> </u>	9500	959	.278
Cas. Pres. <u> </u> BHP Last Test <u> </u>	9750	1029	.280
Tub. Pres. <u>490//</u> BHP Change <u> </u>	10000	1104	.298
Elev. <u>3995</u> Fluid Top <u>8325</u>			
Temp. <u> </u> Run By <u>Ralph E. Erwin</u>			
Clock No. <u> </u> Gauge No. <u> </u>			
Element No. <u> </u>			

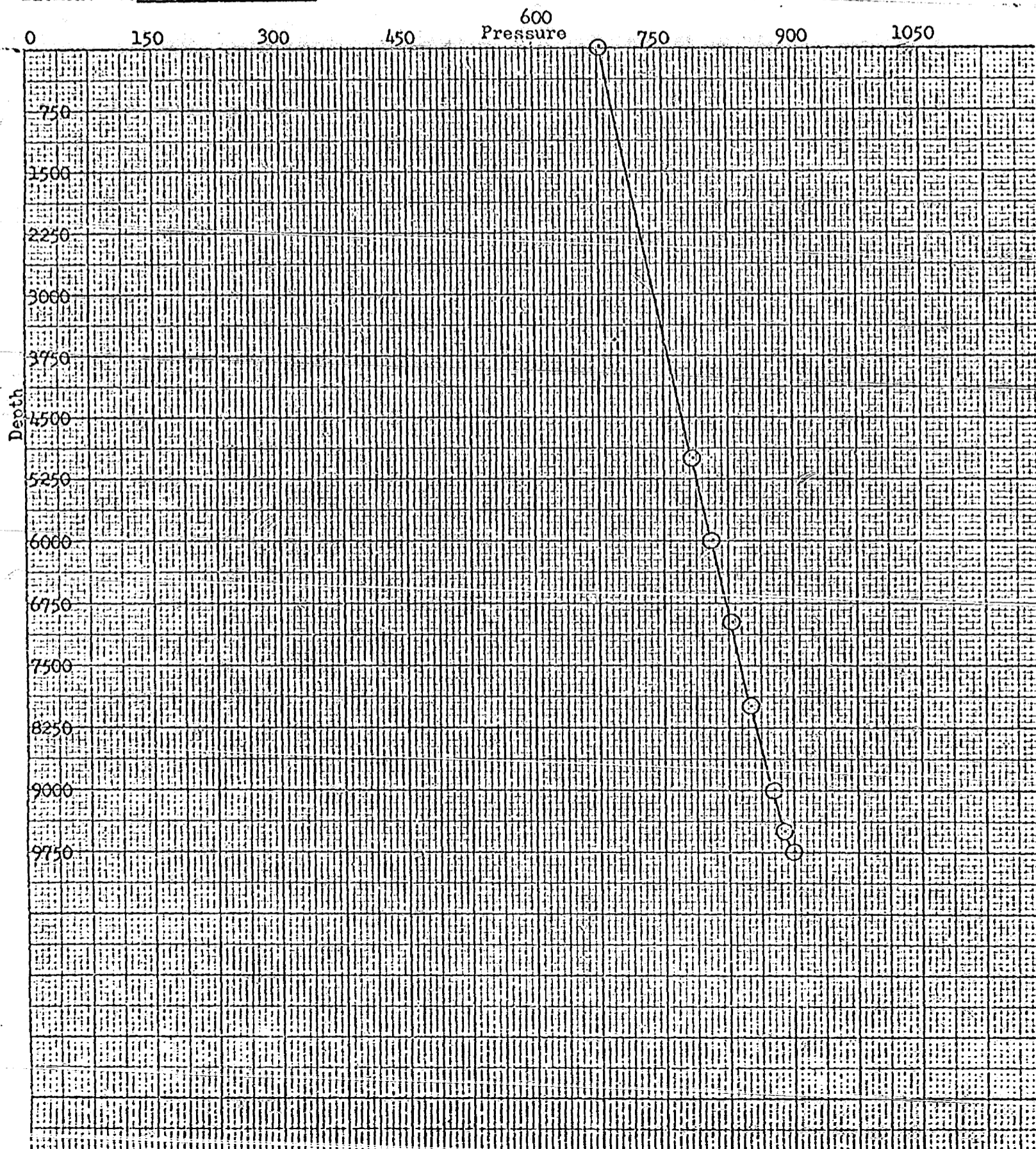


OIL REPORTS AND GAS SERVICES, INC.
P. O. BOX 763, HOBBS, NEW MEXICO

Telephone Numbers
393 2727 - 393 2017

BOTTOM HOLE PRESSURE SURVEY REPORT

			<u>Depth</u>	<u>Pressure</u>	<u>Gradient</u>
Operator	Getty Oil Company		0	680	
Lease	State "BA"		5000	785	.021
Well No.	8		6000	807	.022
Field	Vacuum Wolfcamp		7000	830	.023
Date	5/5/72	Time	8000	853	.023
Status	Flowing	Test Depth	9000	877	.024
Time S. I.	25 hours	Last Test Date	9500	889	.024
Cas. Pres.	-	BHP Last Test	9750	897	.032
Tub. Pres.	680//	BHP Change			
Elev.	3995	Fluid Top			
Temp.		Run By			
Clock No.		Gauge No.			
Element No.					

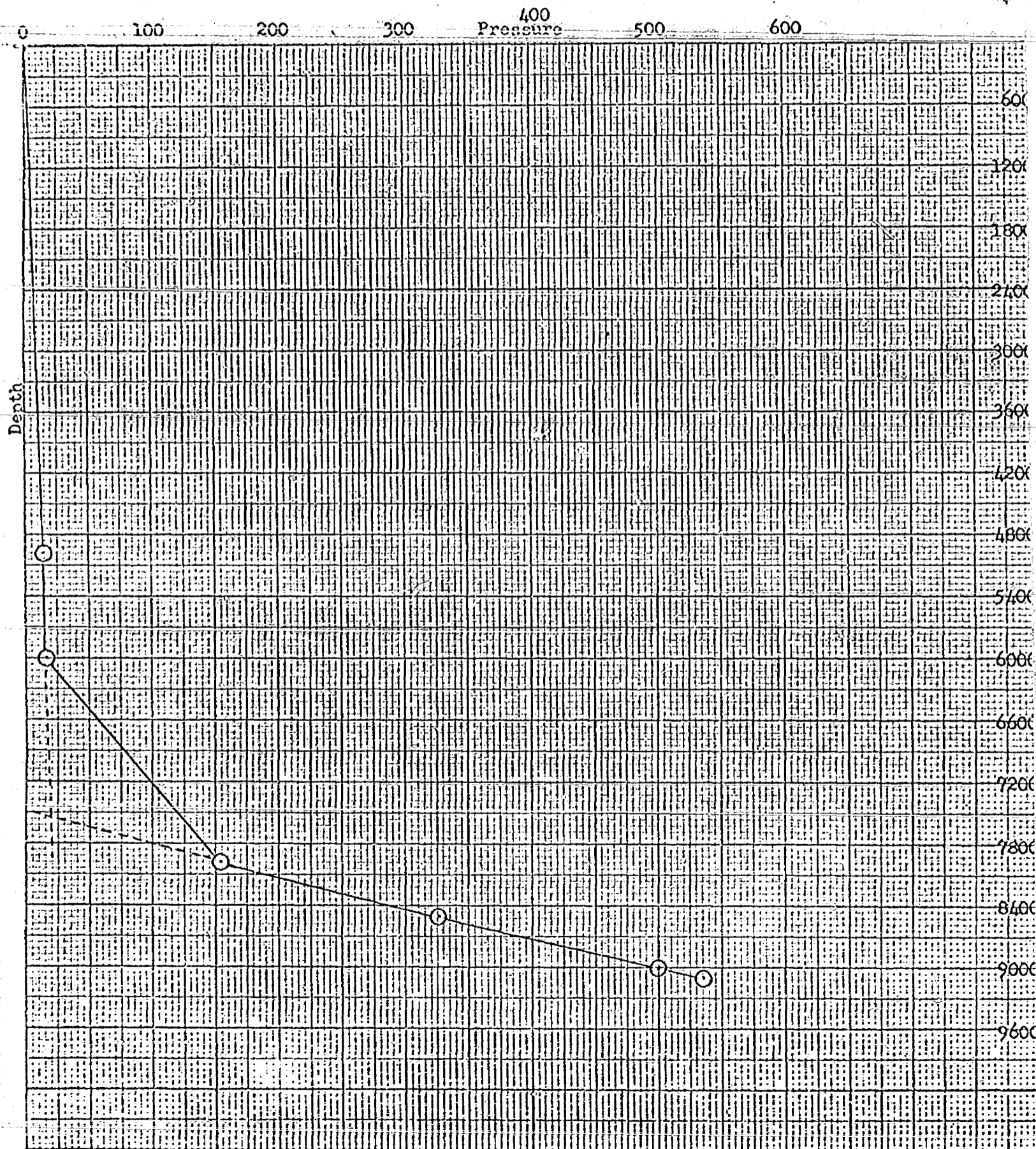


OIL REPORTS AND GAS SERVICES,
P. O. BOX 763, HOBBS, NEW MEXICO

Telephone Numbers
393 2727 - 393 2017

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.					



Mobil Oil Corporation

P.O. BOX 633
MIDLAND, TEXAS 79701

November 20, 1972



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

GETTY OIL COMPANY'S APPLICATION
FOR DOWNHOLE COMMINGLING OF
STATE "BA" WELL NO. 6
NORTH VACUUM ASO, VACUUM WOLF CAMP,
AND VACUUM PENNSYLVANIAN POOLS,
LEA COUNTY, NEW MEXICO

Gentlemen:

Mobil Oil Corporation has received notice of Getty's request to downhole commingle production in the triple completion, State "BA" #6, Unit D, Section 36, T17S, R34E, Lea County, New Mexico, and hereby waives any objection to this application within the limits for total production set forth in Rule 303-C (b).

Yours very truly,

J. A. Morris

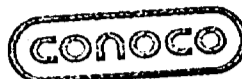
J. A. Morris
Production Engineering Supervisor

JHSeerey/cs

cc: Getty Oil Co.
P. O. Box 249
Hobbs, New Mexico 88240

THIS COPY FOR

<input checked="" type="checkbox"/> CLW	<input checked="" type="checkbox"/> EJM
<input type="checkbox"/> WLG	<input type="checkbox"/> SDS
<input type="checkbox"/> HEW	<input type="checkbox"/> TCW
<input type="checkbox"/> JCS	<input type="checkbox"/> HRS
<input type="checkbox"/> BGF	<input type="checkbox"/> Circ.
<input type="checkbox"/> WWS	<input type="checkbox"/> LRS
<input type="checkbox"/> CCD	<input type="checkbox"/> File
<input type="checkbox"/> Destroy	



L. P. Thompson
Division Manager
Production Department
Hobbs Division

Western Hemisphere Petroleum Division
Continental Oil Company
P.O. Box 460
1001 North Turner
Hobbs, New Mexico 88240
(505) 393-4141

November 28, 1972



Getty Oil Company
P. O. Box 249
Hobbs, New Mexico 88240

Gentlemen:

Getty Oil Company's Application for Downhole Commingling

As requested by your letter dated November 13, 1972, we forward here-
with the letter of waiver.

Yours very truly,

rw
Enc

<input checked="" type="checkbox"/> CIN	<input checked="" type="checkbox"/> EJM
<input checked="" type="checkbox"/> WLG	<input type="checkbox"/> SDS
<input type="checkbox"/> NEW	<input type="checkbox"/> TON
<input type="checkbox"/> AGC	<input type="checkbox"/> FOS
<input type="checkbox"/> DTF	<input type="checkbox"/> GHO.
<input type="checkbox"/> WIS	<input type="checkbox"/> SLS
<input type="checkbox"/> JOD	<input type="checkbox"/> F110
<input type="checkbox"/> Destroy	

Getty

Getty Oil Company

North American Exploration and Production Division

P. O. Box 249
Hobbs, New Mexico 88240

November 13, 1972

SUBJECT: Application for Downhole Commingling
GETTY OIL COMPANY'S
STATE "BA" WELL NO. 6
NORTH VACUUM ABO, VACUUM WOLFCAMP,
AND VACUUM PENNSYLVANIAN POOLS
LEA COUNTY, NEW MEXICO

Gentlemen:

We have received the subject application and herewith waive ^{notice & hearing} any objection
on to Getty's subject application.

CONTINENTAL OIL COMPANY
Company

A. Thompson
Company Representative

Division Manager
Title

November 28, 1972
Date

MRR/bh



Getty Oil Company

North American Exploration and Production Division

P. O. Box 249
Hobbs, New Mexico 88240

November 13, 1972

SUBJECT: Application for Downhole Commingling
GETTY OIL COMPANY'S
STATE "BA" WELL NO. 6
NORTH VACUUM ABO, VACUUM WOLFCAMP,
AND VACUUM PENNSYLVANIAN POOLS
LEA COUNTY, NEW MEXICO

Gentlemen:

We have received the subject application and herewith waive any objection
to Getty's subject application.

<input checked="" type="checkbox"/> CLW	<input checked="" type="checkbox"/> EJM
<input checked="" type="checkbox"/> VLG	<input checked="" type="checkbox"/> SDS
<input type="checkbox"/> HEW	<input type="checkbox"/> TCW
<input type="checkbox"/> JCC	<input type="checkbox"/> HBS
<input type="checkbox"/> ECF	<input type="checkbox"/> Eng
<input type="checkbox"/> WWS	<input type="checkbox"/> File
<input type="checkbox"/> CCD	
<input type="checkbox"/> Destroy	

PHILLIPS PETROLEUM COMPANY
Company

[Signature]
Company Representative

Supervisor, Reservoir Engineering Section
Title

December 6, 1972
Date

MRR/bh



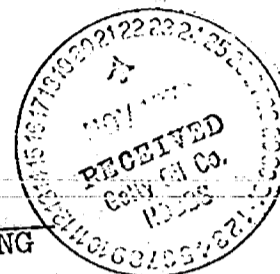
PETROLEUM PRODUCTS

PRODUCING DEPARTMENT
CENTRAL UNITED STATES
MIDLAND DIVISION

November 20, 1972

TEXACO INC.
P. O. BOX 3100
MIDLAND, TEXAS 79701

<input checked="" type="checkbox"/> CLW	<input checked="" type="checkbox"/> EJM
<input type="checkbox"/> WLG	<input type="checkbox"/> SDS
<input type="checkbox"/> LEW	<input type="checkbox"/> TCW
<input type="checkbox"/> JCS	<input type="checkbox"/> EDS
<input type="checkbox"/> ECF	<input type="checkbox"/> GRC.
<input type="checkbox"/> WWS	<input type="checkbox"/> LRS
<input type="checkbox"/> GCD	<input type="checkbox"/> File
<input type="checkbox"/> Destroy	



WAIVER
DOWNHOLE COMMINGLING
VACUUM UPPER PENN.
VACUUM WOLF CAMP
VACUUM ABO, NORTH
LEA COUNTY, NEW MEXICO

Oil Conservation Commission
State of New Mexico
P. O. Box 2028
Santa Fe, New Mexico 87501

Attention: Mr. A. L. Porter

Gentlemen:

We have been advised of the application of Getty Oil Company to downhole commingle production in their New Mexico "BA" State Well No. 6 from the three captioned pools not to exceed 120 BOPD.

Texaco Inc., as an offset operator, hereby waives objection to the subject application.

Yours very truly,

Darrell Smith
Division Manager

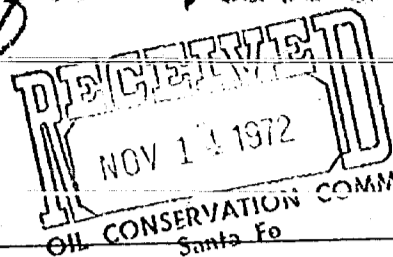
By R. G. Brown
R. G. Brown
Assistant to Division Manager

KWH/sl

cc: Getty Oil Company

Set for hearing

Getty



Getty Oil Company

North American Exploration and Production Division

Case 4888
P. O. Box 249,
Hobbs, New Mexico 88240

November 9, 1972

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

DHC-122
due Dec 4

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

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

Gentlemen:

Getty Oil Company respectfully requests approval to permit downhole commingling of the subject three (3) zones. The commingled production of the three zones will not exceed 120 barrels of oil per day.

This request for exception to Rule 303 A should be considered for Administrative Approval in accordance with the provisions provided in Rule 303 C.

In support of this application, the following information is submitted:

1. The attached plat shows the State "BA" Lease and Well No. 6 outlined in red and located 660' FNL and 860' FWL of 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. Administrative Order No. DHC-116 (June 8, 1972) authorized downhole commingling of the North Vacuum Abo and Vacuum Wolfcamp production.
4. The Vacuum Upper Pennsylvanian was perforated (10,121'-34') and treated. The Wolfcamp and Abo Zones are temporarily shut-in and sealed behind a packer. The Pennsylvanian Zone is being evaluated by pump testing. The mechanics involved in pumping at this depth requires 1" sucker rods and a 2-7/8" - 2" tubing string. The outside diameter of this equipment prohibits the running of two (2) strings of tubing inside of the 7" casing of the No. 6.

DOCKET MAILED

Date *12/20/72*

Getty's State "BA" Well No. 6
Downhole Commingling
NMOCC - Santa Fe, New Mexico

Page No. 2

5. 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. Latest test before the commingling order. (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. Latest test before the commingling order. (Perforations: 9902' to 10,016' selective).

VACUUM UPPER PENN: On November 7, 1972 the Upper Pennsylvanian pumped at a rate of 50 BOPD, 3 BWPD, gas too small to measure, and the tubing pressure was 50 PSI. Average production from date of potential (10-16-72) thru November 7, 1972 is 53.8 BOPD (See Table I).

NMOCC Forms C-116 are attached. These producing rates do not exceed the limit set out in paragraph "C", (b) for any two of three zones.

6. Neither of the zones produce more water than the combined oil limit as determined in Rule 303, Paragraph "C", 1. (d).
7. Getty Oil Company has commingled these 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 three zones.
8. The surface commingling resulted in no reduction of oil value; therefore, downhole commingling will not reduce the oil value.
9. The ownership of the zones to be commingled is common.
10. Attached is a production decline curve showing the monthly production of oil for the North Vacuum Abo and the Vacuum Wolfcamp since January, 1969. The Vacuum Upper Pennsylvanian is a recently completed zone.

WELL COMPLETION HISTORY OF STATE "BA" WELL NO. 6 VACUUM UPPER PENN:
Perforated 7" casing in Penn. Zone from 10,121' to 10,134'. Set Baker Model D Production Packer at 10,045'. Treated with 2000 gals. 15% NE Acid. Swabbed back load. Did not flow and put on pump. On 24 hour potential test (10-16-72) Penn Zone pumped 66 BO, 85 BW, gas too small to measure. See Table I for a tabulation of production results.

11. The production from the North Vacuum Abo, the Vacuum Upper Penn, and the Vacuum Wolfcamp is by artificial lift. If the application for downhole commingling is approved, the commingled production will be artificially lifted. Twenty-four hours shut-in bottom hole pressures taken in May, 1972 on the State "BA" Well No. 8 (located 2400' East of Well No. 6) are 536 PSI at 9100' for the North Vacuum Abo, 897 PSI at 9750' for the Vacuum Wolfcamp, and 1104 PSI at 10,000' for the Vacuum Pennsylvanian. The bottom hole pressure surveys are enclosed.
12. Downhole commingling will not jeopardize the efficiency of future secondary operations in any zone.

Getty's State "BA" Well No. 6
Downhole Commingling
NMOCC - Santa Fe, New Mexico

Page No. 3

13. Copies of this application have been furnished to Offset Operators.
14. It is recommended that the production be allocated in proportion to the above outlined latest tests.

Very truly yours,
GETTY OIL COMPANY

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

MRR-EJM/bh
11-9-72
ATTACHMENTS

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: 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)

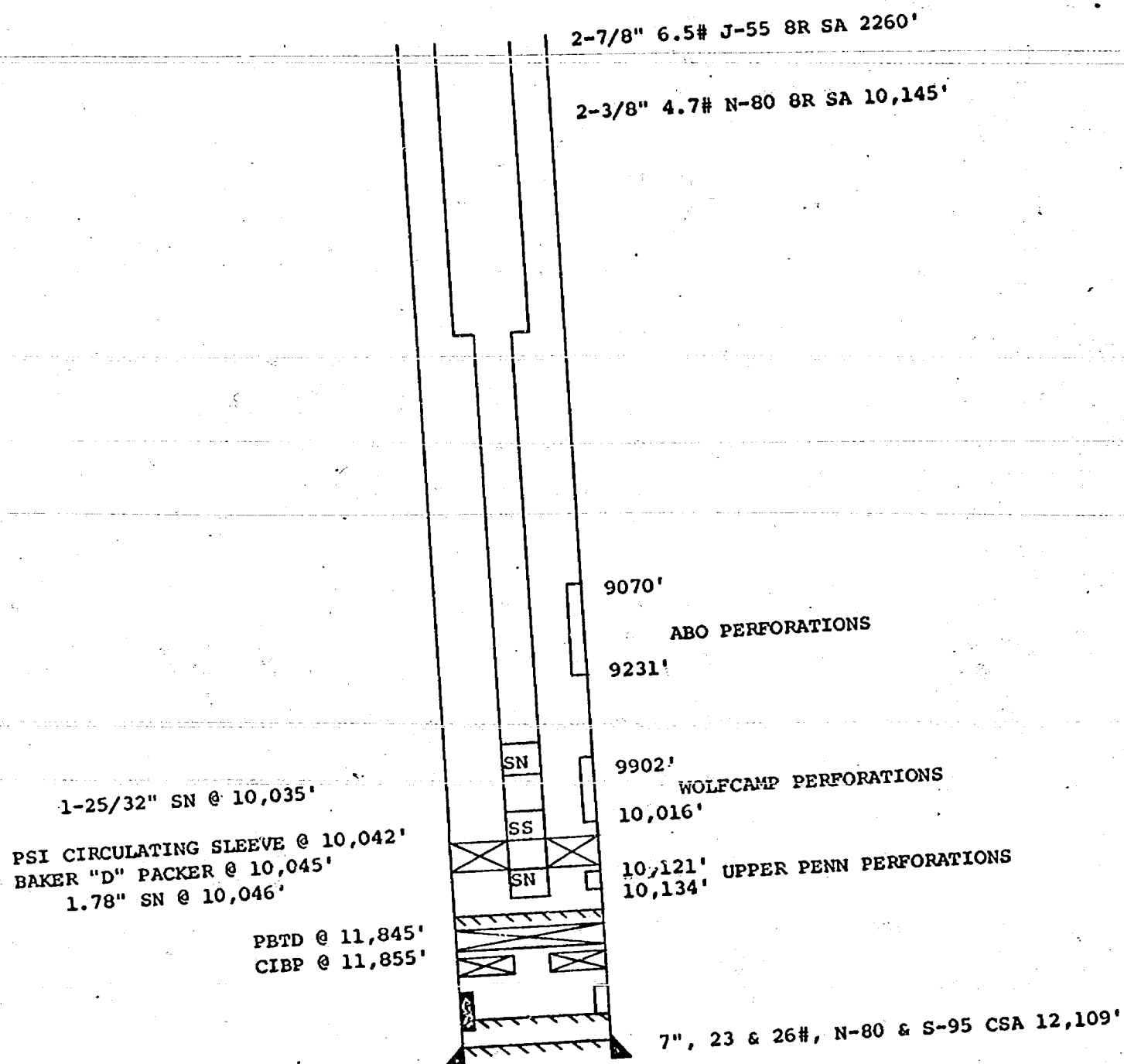
TABLE I		
DATE	BBLS. OF OIL	BBLS. OF (LOAD) WATER
	66	85
10-16-72	70	76
10-17-72	65	72
10-18-72	38	32
10-19-72	35	57
10-20-72	37	44
10-21-72	41	35
10-22-72	43	28
10-23-72	49	21
10-24-72	52	15
10-25-72	58	12
10-26-72	59	11
10-27-72	59	9
10-28-72	WELL DOWN - PUMPING UNIT REPAIRS	
10-29-72	WELL DOWN - PUMPING UNIT REPAIRS	
10-30-72	WELL DOWN - PUMPING UNIT REPAIRS	
10-31-72	77	9
11-1-72	64	7
11-2-72	56	5
11-3-72	41	2
11-4-72	59	4
11-5-72	57	4
11-6-72	50	3
11-7-72		

AVERAGE PRODUCTION FROM DATE OF POTENTIAL (OCTOBER 16, 1972) THRU
NOVEMBER 7, 1972 IS 53.8 BOPD.

MRR/bh
11-9-72

GETTY OIL COMPANY
STATE "BA" WELL NO. 6
APPLICATION TO DOWNHOLE COMMINGLE
ABO NORTH, WOLFCAMP, AND UPPER PENN ZONES
LEA COUNTY, NEW MEXICO

PROPOSED COMPLETION SKETCH



Case 4888

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

C-116
Revised 1-1-65

Operator GETTY OIL COMPANY				Pool VACUUM UPPER PENN				County LEA								
Address P.O. BOX 249, HOBBS, NEW MEXICO 88240						TYPE OF TEST - (X) <input checked="" type="checkbox"/>		Scheduled <input type="checkbox"/>		Completion <input type="checkbox"/>		Special <input checked="" type="checkbox"/>				
LEASE NAME	WELL NO.	LOCATION				DATE OF TEST	STATUS	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"	6	D	36	17-S	34-E	11-7-72	P	-	50	66	24	3	37.9	50	TSTM	-
APPLICATION FOR DOWNHOLE COMMINGLING																

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.

Case 4888

MRR/bh

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

C.L. Wade: *C.L. Wade*
(Signature)

AREA SUPERINTENDENT
(Title)

NOVEMBER 8, 1972
(Date)

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

C-116
Revised 1-1-65

Operator GETTY OIL COMPANY				Pool VACUUM WOLFCAMP				County LEA									
Address P.O. BOX 249, HOBBS, NEW MEXICO 88240							TYPE OF TEST - (X)	Scheduled <input type="checkbox"/>		Completion <input type="checkbox"/>		Special <input checked="" type="checkbox"/>					
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"	6	D	36	17-S	34-E	5-13-72	20/64	175	28	24	1	41.3	20	238	11,900		
APPLICATION FOR DOWNHOLE COMMINGLING																	

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.

Original Signed By
C. L. Wade

(Signature)
AREA SUPERINTENDENT

(Title)
MAY 17, 1972

(Date)

HBS/bh

Case 4888

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

C-116
Revised 1-1-65

Operator GETTY OIL COMPANY		Pool VACUUM ABO, NORTH				County LEA											
Address P.O. BOX 249, HOBBS, NEW MEXICO 88240						TYPE OF TEST - (X)		Scheduled <input type="checkbox"/>		Completion <input type="checkbox"/>		Special <input checked="" type="checkbox"/>					
LEASE NAME	WELL NO.	LOCATION				DATE OF TEST	STATUS	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"	6	D	36	17-S	34-E	5-14-72	P	-	60	16	24	1	39.1	18	51	2,833	
APPLICATION FOR DOWNHOLE COMMINGLING																	

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 Commissioner 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.

Original Signed By
C. L. Wade

(Signature)

AREA SUPERINTENDENT

(Title)

MAY 17, 1972

(Date)

HBS/bh

Case 4888

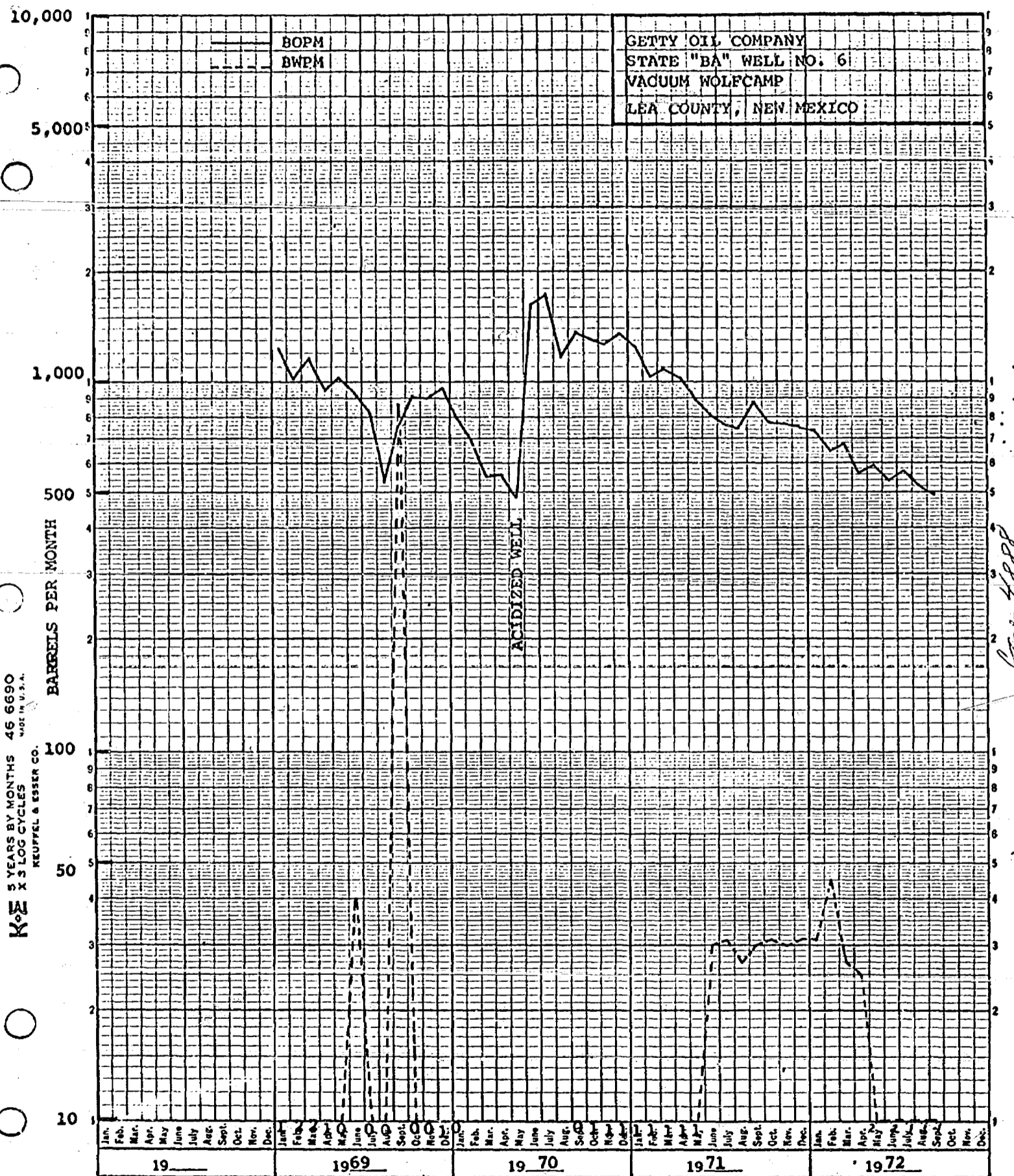
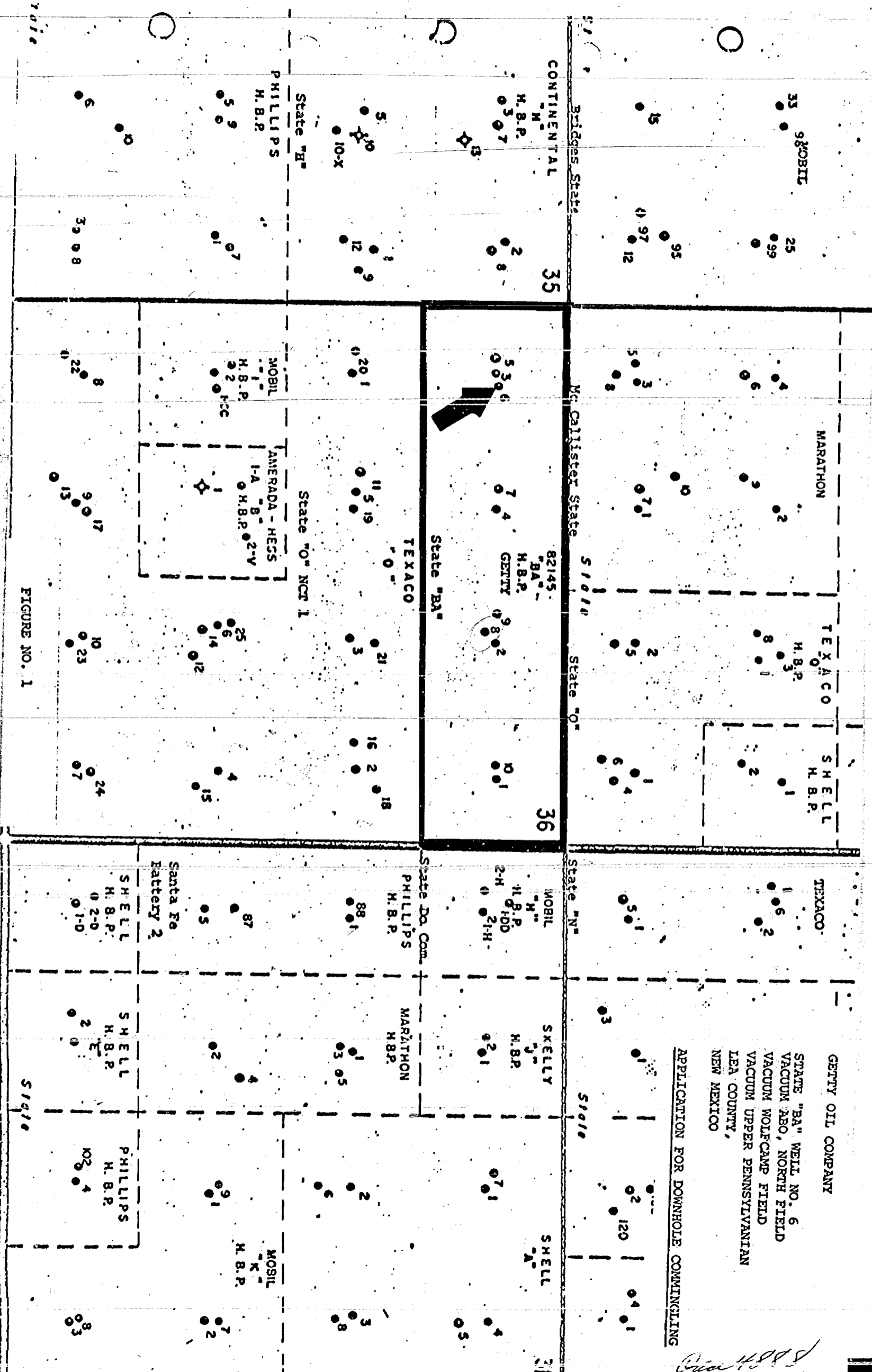


FIGURE NO. 3



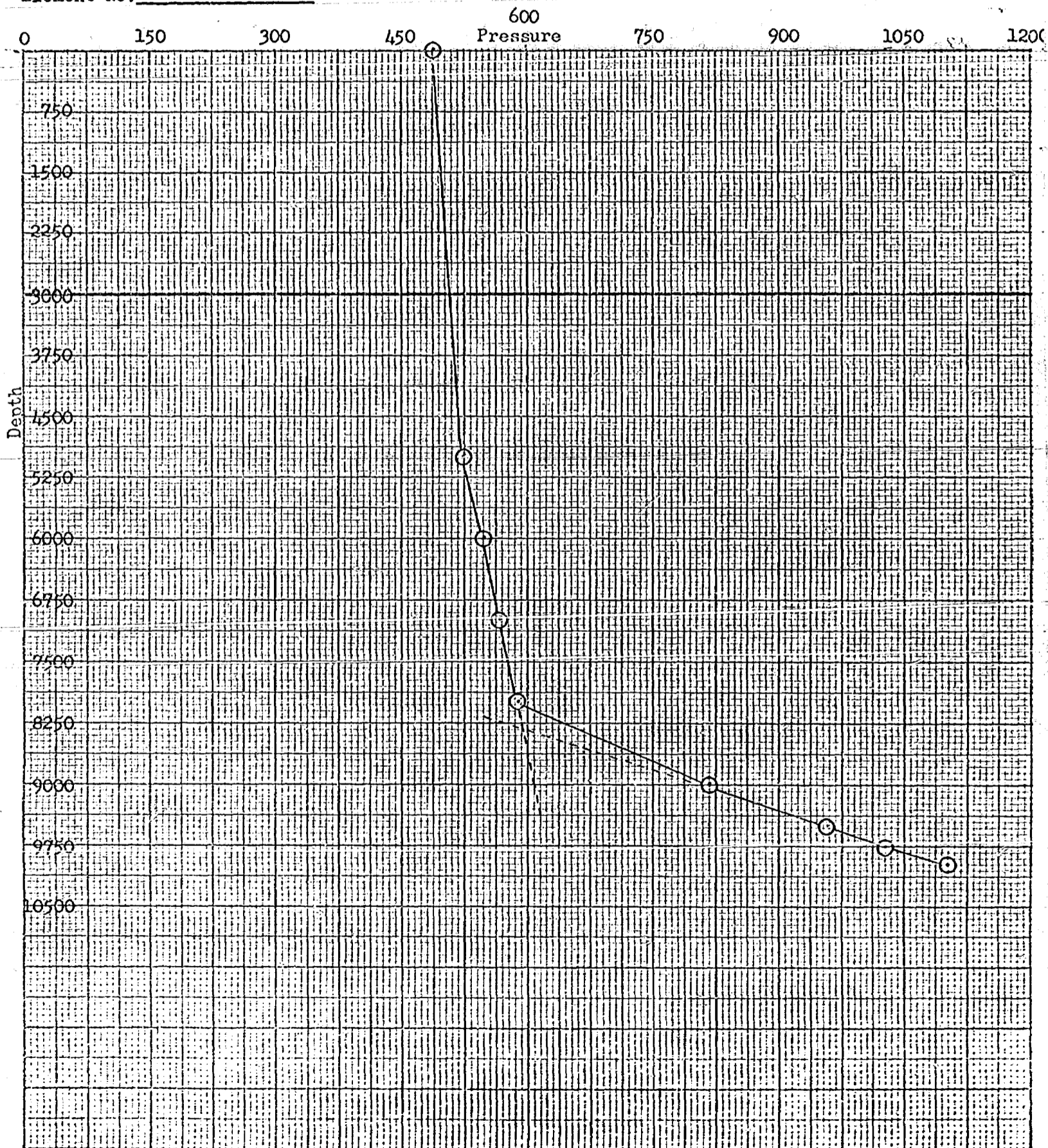
OIL, PORTS AND GAS SERVICES,
P. O. BOX 763, HOBBS, NEW MEXICO

Telephone Numbers
393 2727 - 393 2017

BOTTOM HOLE PRESSURE SURVEY REPORT

Operator	Getty Oil Company		
Lease	State "BA"		
Well No	8		
Field	Vacuum Upper Penn		
Date	5/5/72	Time	
Status	Flowing	Test Depth	10,000
Time S. I.	26 hours	Last Test Date	
Cas. Pres.	-	BHP Last Test	
Tub. Pres.	490//	BHP Change	
Elev.	3995	Fluid Top	8325
Temp.		Run By	Ralph E. Erwin
Clock No.		Gauge No.	
Element No.			

<u>Depth</u>	<u>Pressure</u>	<u>Gradient</u>
0	490	
5000	525	.007
6000	546	.021
7000	567	.021
8000	589	.022
9000	820	.231
9500	959	.278
9750	1029	.280
10000	1104	.298



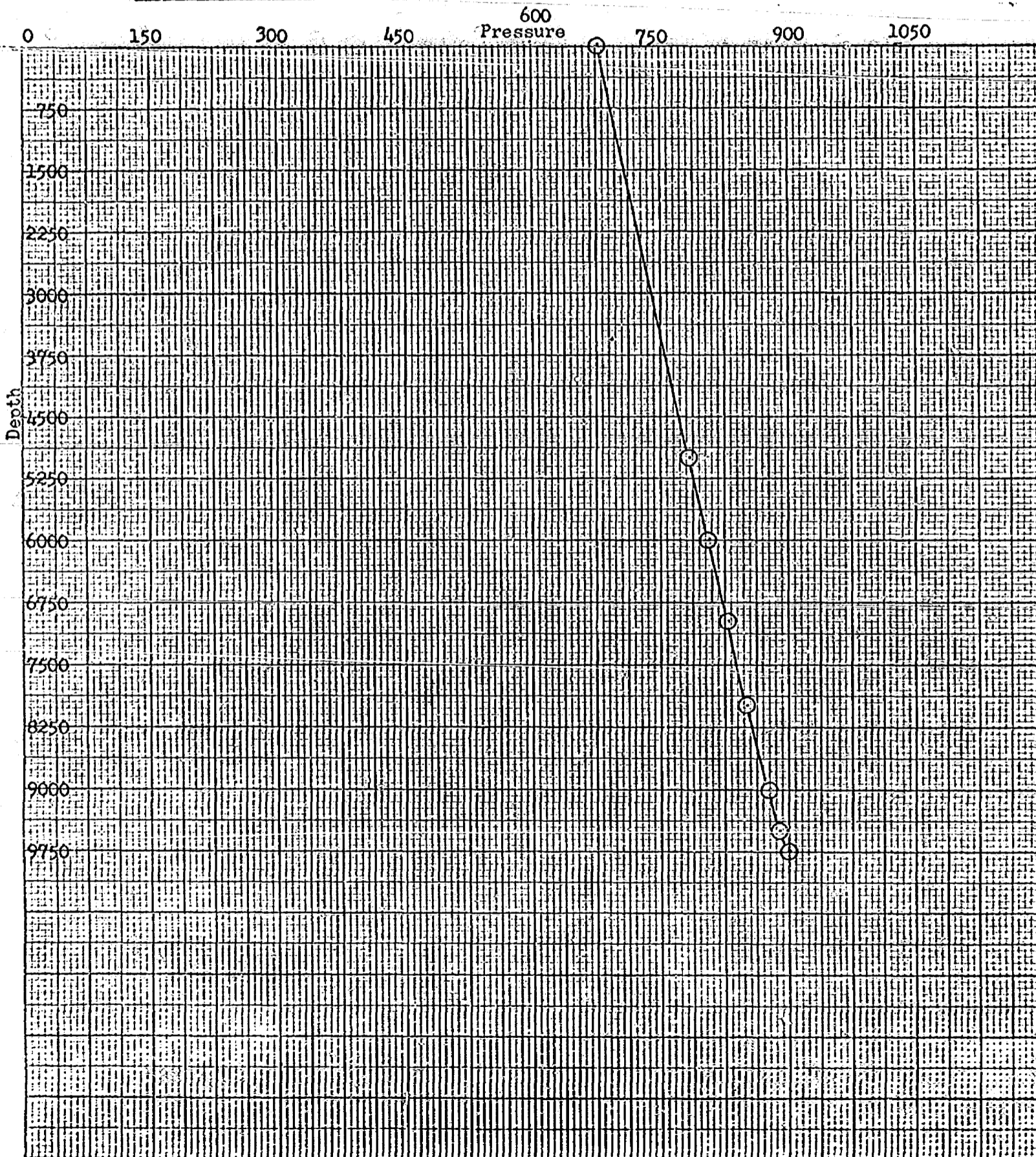
Case 4888

OIL REPORTS AND GAS SERVICES, INC.
P. O. BOX 763, HOBBS, NEW MEXICO

Telephone Numbers
393 2727 - 393 2017

BOTTOM HOLE PRESSURE SURVEY REPORT

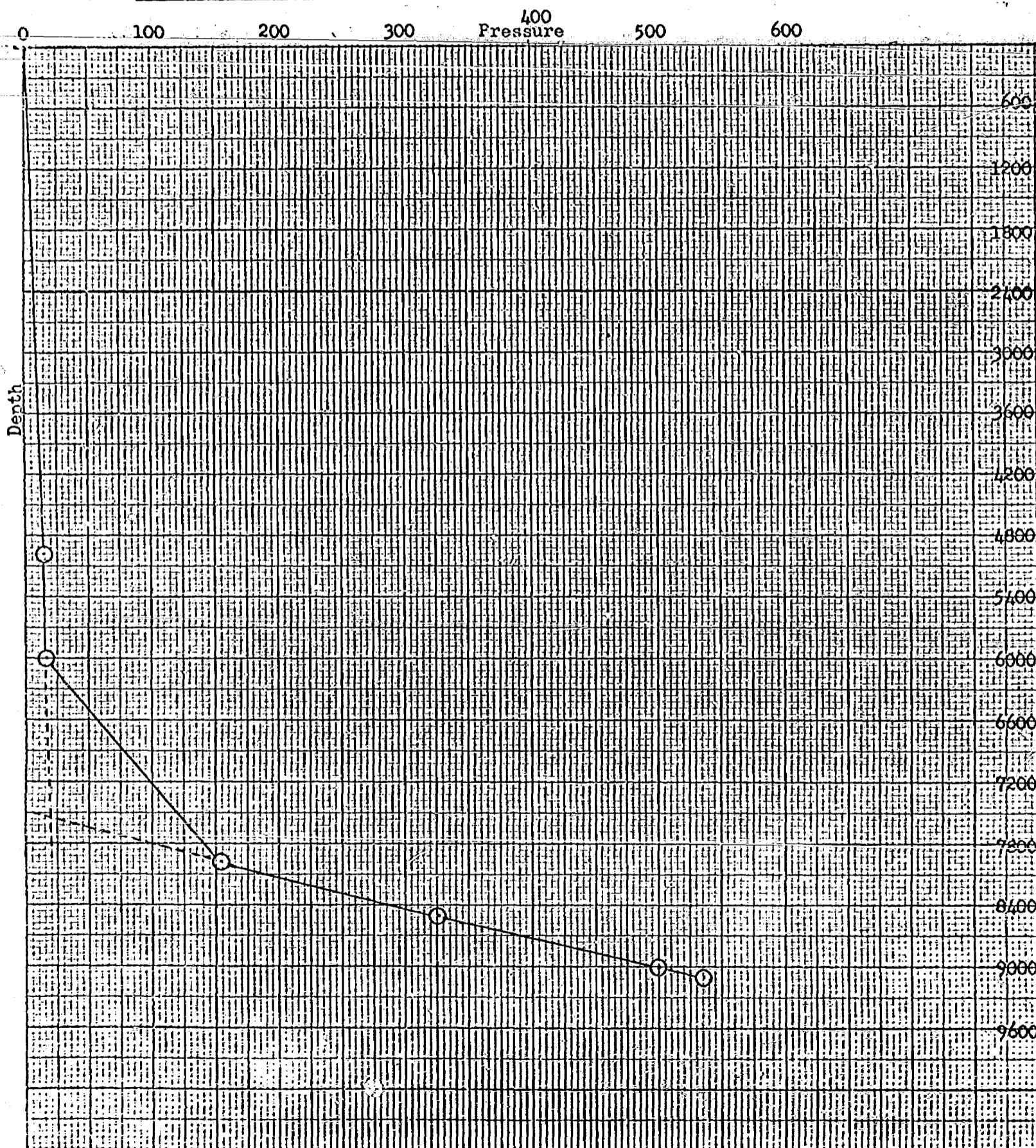
			Depth	Pressure	Gradient
Operator	Getty Oil Company		0	680	
Lease	State "BA"		5000	785	.021
Well No.	8		6000	807	.022
Field	Vacuum Wolfcamp		7000	830	.023
Date	5/5/72	Time	8000	853	.023
Status	Flowing	Test Depth	9000	877	.024
Time S. I.	25 hours	Last Test Date	9500	889	.024
Cas. Pres.	-	BHP Last Test	9750	897	.032
Tub. Pres.	680#	BHP Change			
Elev.	3995	Fluid Top			
Temp.		Run By			
Clock No.		Gauge No.			
Element No.					



Case 4888

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	8000	153	.135
Status	Pump	8500	326	.346
Time S. I.	24 hours	9000	500	.348
Cas. Pres.	NA	9100	536	.360
Tub. Pres.	0			
Elev.	3995			
Temp.				
Clock No.				
Element No.				
		Test Depth	9100	
		Last Test Date		
		BHP Last Test		
		BHP Change		
		Fluid Top	7560	
		Run By	Ralph E. Erwin	
		Gauge No.		



DRAFT

DSN/dr

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
COMMISSION OF NEW MEXICO FOR
THE PURPOSE OF CONSIDERING:

CASE NO. 4888

Order No. R-4468

APPLICATION OF GETTY OIL COMPANY
FOR DOWNHOLE COMMINGLING, LEA
COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on January 3, 1973,
at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this day of January, 1973, the Commission,
a quorum being present, having considered the testimony, the record,
and the recommendations of the Examiner, and being fully advised
in the premises,

FINDS:

(1) That due public notice having been given as required by
law, the Commission has jurisdiction of this cause and the subject
matter thereof.

(2) That the applicant, Getty Oil Company, is the
owner and operator of the State "BA" Well No.6, located in
Unit D of Section 36, Township 17 South, Range 34 East, NMPM,
Lea County, New Mexico.

(4) That subsequent to the dual completion of the well in the aforesaid two pools, the applicant also completed the subject well to ~~produce oil~~ ^{produce oil from the Pennsylvania Pool.} (5) That ~~only marginal production was obtained from the vacuum-abo, vacuum-wolfcamp, and vacuum-upper pennsylvanian pools.~~

(3) That pursuant to authority granted by Administrative Order MC-1332, said Well No. 6 was completed by the applicant as a ~~triple~~ ^{dual} completion (conventional) to produce oil from the North Vacuum-Abo ^{and} Vacuum-Wolfcamp ^{Pool} and ~~Vacuum-Upper Pennsylvanian Pools.~~

(4) (5) (6) That each of the three zones in the subject well is capable of only low marginal production.

(7) That the applicant now seeks authority to complete said Well No. 6 in such a manner as to produce oil from the subject well through one string of 2 7/8-inch tubing, commingling in the wellbore the production from the North Vacuum-Abo, Vacuum-Wolfcamp, and Vacuum-Upper Pennsylvanian Pools.

(8) That the proposed commingling in the subject well of the three zones may substantially extend the productive lives of said zones in the subject well.

(9) That the reservoir characteristics of each of the zones in the subject well are such that underground waste would not be caused by the proposed commingling in the wellbore.

(10) That the proposed commingling may result in the recovery of additional oil from each of the commingled zones in the subject well, thereby preventing waste, and will not violate correlative rights.

(11) That the mechanics of the proposed completion are feasible and in accord with good conservation practices.

(12) That to afford the Commission the opportunity to assess the potential for waste and to expeditiously order appropriate remedial action the operator should notify the Hobbs District Office of the Commission any time the subject well is shut-in for seven consecutive days

(13) That the commingled production should be allocated to ^{allowance and} each of the zones in the well upon the basis of ~~updated production tests and decline curves~~ submitted to the Santa Fe Office of the Commission at the time

~~of conversion~~ ^{25% percent} ^{North} Vacuum-Abo, ^{25% percent} Vacuum-Wolfcamp, and ^{50 percent} Vacuum-Upper Pennsylvanian.

(14) That approval of the subject application will prevent waste and protect correlative rights.

(15) That Administrative Orders MC-1332 and DHC-116 should be superseded.

IT IS THEREFORE ORDERED:

(1) That the applicant, Getty Oil Company, is hereby authorized to complete its State "BA" Well No. 6, located in Unit D of Section 36, Township 17 South, Range 34 East, NMPM, Lea County, New Mexico, in such a manner as to produce oil from the North Vacuum-Abo, Vacuum-Wolfcamp, and Vacuum-Upper Pennsylvanian Pools through one string of 2 7/8-inch tubing, commingling in the wellbore the production from the pools. .

(2) That ~~the aforesaid and commingled production shall be allocated to each of the zones well to a single string of tubing the operator shall furnish commingled in the wellbore of the subject well on the basis of 25 percent to the North Vacuum-Abo, 25 percent to the Vacuum-Wolfcamp, and 50 percent to the Vacuum-Upper Pennsylvanian~~ *the aforesaid and commingled production shall be allocated to each of the zones well to a single string of tubing the operator shall furnish commingled in the wellbore of the subject well on the basis of 25 percent to the North Vacuum-Abo, 25 percent to the Vacuum-Wolfcamp, and 50 percent to the Vacuum-Upper Pennsylvanian* ~~the Santa Fe Office of the Commission updated production tests and decline curves for each of the zones, whereupon, the Commission shall establish a formula for allocating the commingled oil production and commingled gas production to the various zones.~~

(3) That the commingling in the wellbore authorized by this order shall continue only so long as the commingled production of the two zones does not exceed 120 barrels of oil per day nor 120 barrels of water per day.

(4) That the maximum amount of gas which may be produced daily from the commingled zones in the subject well shall be determined by multiplying 2,000 by the top unit allowable for the Vacuum-Upper Pennsylvanian Pool.

(5) That the operator of the subject well shall immediately notify the Commission's Hobbs district office any time the well has been shut-in for seven consecutive days and shall concurrently present to the Commission a plan for remedial action.

-4-

Case No. 4888

Order No. R-

(6) That the applicant shall complete, operate, and produce said well in accordance with the provisions of Rule 112-A of the Commission Rules and Regulations insofar as said rule is not inconsistent with this order.

(7) That Administrative Orders MC-1332 *and DHC-116* ~~are~~ hereby superseded.

(8) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year herein-
above designated.

(52)

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
COMMISSION OF NEW MEXICO FOR
THE PURPOSE OF CONSIDERING:

CASE NO. 4888
Order No. R-4468-A

APPLICATION OF GETTY OIL COMPANY
FOR DOWNHOLE COMMINGLING, LEA
COUNTY, NEW MEXICO.

NUNC PRO TUNC

BY THE COMMISSION:

It appearing to the Commission that Order No. R-4468, dated January 5, 1973, does not correctly state the intended order of the Commission in one particular due to error,

IT IS THEREFORE ORDERED:

(1) That Paragraph (3) on page 3 of Order R-4468, Case No. 4888, be and the same is hereby corrected to read in its entirety as follows:

"(3) That the commingling in the wellbore authorized by this order shall continue only so long as the commingled production of the three zones does not exceed 120 barrels of oil per day nor 120 barrels of water per day."

(2) That this order shall be effective nunc pro tunc as of January 5, 1973.

DONE at Santa Fe, New Mexico, this _____ day of January, 1973.

*none
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-3-

Case No. 4888
Order No. R-4468

(2) That the allowable and commingled production shall be allocated to each of the zones commingled in the wellbore of the subject well on the basis of 25 percent to the North Vacuum-Abo, 25 percent to the Vacuum-Wolfcamp, and 50 percent to the Vacuum-Upper Pennsylvanian.

(3) That the ^{three}commingling in the wellbore authorized by this order shall ~~continue~~ only so long as the commingled production of the ~~two~~ zones does not exceed 120 barrels of oil per day nor 120 barrels of water per day.

(4) That the maximum amount of gas which may be produced daily from the commingled zones in the subject well shall be determined by multiplying 2,000 by the top unit allowable for the Vacuum-Upper Pennsylvanian Pool.

(5) That the operator of the subject well shall immediately notify the Commission's Hobbs district office any time the well has been shut-in for seven consecutive days and shall concurrently present to the Commission a plan for remedial action.

(6) That the applicant shall complete, operate, and produce said well in accordance with the provisions of Rule 112-A of the Commission Rules and Regulations insofar as said rule is not inconsistent with this order.

(7) That Administrative Orders MC-1332 and DHC-116 are hereby superseded.

(8) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year herein-
above designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

BRUCE KING, Chairman

ALEX J. ARMIJO, Member

A. L. PORTER, JR., Member & Secretary

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