

Case Number

4289

Application
Transcripts.

Small Exhibits

ETC.

dearnley-meier

SPECIALIZING IN: DEPOSITIONS, HEARINGS, STATEMENTS, EXPERT TESTIMONY, DAILY COPY, CONVENTIONS

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BEFORE THE
NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
January 7, 1970

EXAMINER HEARING

IN THE MATTER OF:)

Application of Getty Oil Company for) Case No.4289
downhole commingling, Lea County, New)
Mexico.)

BEFORE: Daniel S. Nutter, Examiner.

TRANSCRIPT OF HEARING

MR. NUTTER: Call Case 4289.

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

MR. MORRIS: Mr. Examiner, I'm Richard Morris
of Montgomery, Federici, Andrews, Hannahs and Morris,
Santa Fe, appearing on behalf of the Applicant, Getty Oil
Company.

We have one witness, Mr. Eugene Miller and
request that he be sworn, please.

(Witness sworn).

(Whereupon, Applicant's
Exhibits 1 through 6 were
marked for identification).

EUGENE MILLER

called as a witness, having been first duly sworn, was
examined and testified as follows:

DIRECT EXAMINATION

BY MORRIS:

Q Mr. Miller, please state your name and where
you reside.

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

Q By whom are you employed and in what capacity?

A Getty Oil Company. I am area engineer of the

Hobbs area.

Q Will you please state briefly your education and experience in the petroleum industry?

A I was graduated from Texas Tech in 1958, Bachelor of Science and petroleum engineering. I started to work for Getty Oil Company in 1958, in June. Worked for two years in West Texas; transferred to East Texas. I worked about six years; back to West Texas about two and one half years and thereafter transferred to Hobbs and have been there about six months: registered professional engineer in the State of Texas.

Q Are you familiar with the Getty Oil Company's application in this case?

A Yes, I am.

MR. MORRIS: Are the witness' qualifications acceptable?

MR. NUTTER: Yes, they are.

Q (By Mr. Morris) Mr. Miller, please refer to Exhibit No. 1 in this case, being the plat, and state what that is, what it shows, please.

A Exhibit No. 1 is a plat in an area of the Justis Field showing the Getty Oil Company State "BB" Lease.

It is toward the west side and near the edge of the field. The red circles indicate Blinebry production; the green circles Drinkard -- Tubb-Drinkard production and the red and green circles indicate the dual wells in the area.

Q This shows the subject well in the northwest quarter of the northwest quarter of Section 2, Range 37 East, Township 25 South; is that right?

A That is correct. It is shown in green, the lease.

Q All right. Referring to the tabulation shown on your Exhibit No. 2 --

A This is a tabulation of the production from this dual well since completion in May of 1963. The Blinebry production is tabulated, Blinebry oil and gas; then, the Drinkard oil and gas and then both zones have been added together and total production by month is shown on this exhibit.

Q All right. Now, before discussing the data shown there, would you also refer to the graph, being Exhibit No. 3?

A Exhibit No. 3 is a plot of the production since completion of the two wells. It shows the trends that the

production has made over the years.

Q Does this data shown on Exhibit No. 2 and the graph shown on Exhibit No. 3 reflect the erratic behavior of the production from these two zones in this well since latter part of 1968?

A Yes, it does. It shows that during these first years, in 1963, '64 and '65, the wells were pretty well at top allowable and then the decline over about two and a half years was fairly steady for the two, and something happened in the earlier part of 1968 to cause the production from the two wells to deviate in two different directions as shown.

This was not apparent to us, since we did not keep the curves plotted together. They were plotted separately and we didn't notice this until just this past year.

Q When was the problem brought to your attention?

A We ran yearly tests on the State "BB" No. 2, as is required and I might point out at this point that the State "BB" is not a conventional completion.

It is a slim hole completion with two strings of two and seven-eighths inch tubing cemented in. There is no packer. But, as required, we ran the packer leakage

test over the years and had no indication of leaks until last October.

A leakage was indicated and then backing up slightly, the Blinebry was put on the pump back in 1966, about August. It picked up the production slightly at that time and it has been pumping until last August, at which time we decided to pull the pump for a routine job.

The -- we had a hard time killing the well. The paraffine was built up fairly strong at the top and we were hot oiling down one side and the other until we finally got into the well.

We pulled a pump and pulled it into and after an extensive working over, trying to get the pump out, we found that the well would flow and we swabbed it in and it has been flowing since August.

This, we couldn't understand. Then, in October, the packer leakage test indicated a leak between the two. At that time, I plotted up this decline curve that we have here on semi-log paper. It was apparent then that something had happened back in 1968.

MR. NUTTER: That packer leakage test was October of '68 or '69?

THE WITNESS: '69; excuse me. But, it appeared

that something had happened back here in '68. The packer leakage test in '68 did not indicate it.

Q (By Mr. Morris) The packer leakage or communication test that was taken in October of '69; now, was this situation brought to your attention by Mr. Ramey of the Hobbs office?

A Yes. Yes, it was.

Q All right.

A At this time, we started looking deeper into it.

Q Now, what does Exhibit 3 show as to the current level of production of both oil and gas from the two zones?

A It appears that both zones together are producing -- this is at the bottom of the hole -- about fifty-five barrels of oil per day. Out of well, fifty-five -- they should be producing at the bottom of the hole about twenty-nine barrels of oil out of the Tubb-Drinkard and about twenty-seven out of the Blinebry.

But, at the top of the hole, we are getting fifty-five out of Blinebry and about six out of the Drinkard.

Q Now, what is the normal unit allowable for each of these zones at the present time?

A The normal top allowable would be about ninety-five

barrels of oil per day.

Q That would be for each zone?

A For each zone.

Q All right. Please refer to your Exhibit No. 4, being the mechanical diagram, and please explain how the well was drilled, how it is presently completed.

A As I stated before, this was a slim hole location, nine and five-eighths inch surface; protective pipe was set at nine hundred seven feet and drilled out to sixty-two hundred -- sixty-three hundred feet and two strings of two and seven-eighths inch pipe were cemented at that time.

The perforations, as shown on this diagram, were made and each well was fracture treated to stimulate the production. At this time, excessive pressure was put on the cement job which -- if you would expect a failure, you would expect it at that time; but there was no failure.

Q Would you be able to speculate as to the source of the leak that you believe is probably occurring?

A The leaks would have to be in one of three places. It could be -- the string on the right-hand side is the Tubb-Drinkard string and the string on the left-hand side is the Blinebry string.

There could be communication across the two strings at the Blinebry perforations, which would put the holes and -- the two pipes could be as close as -- well, they could be laying together inside the hole; the pipes could be together at that point.

It could be down at the bottom from the Tubb-Drinkard producing formation or it could be any place in between the lower Blinebry perforation and the upper Drinkard perforation, showing a hundred forty-two foot distance in between the two.

The cement could have aged and caused a channel in between those two points at the Blinebry perforation or at the Drinkard perforation down below. I might point out that the pump barrel and the two balls and seats that were left in the hole last August when we pulled it, is shown.

Q Is there any fluid in the Blinebry string of -- production string?

A Excuse me.

Q Is there any fluid standing in the hole below the perforations on the Blinebry production string?

A Yes. There very well could be. As the Blinebry is producing, there inherently would be fluid all the way

down to sixty-three hundred feet in that string. It would be stagnant fluid.

Q Have you had bottom hole pressure tests run on each of these strings?

A Yes, we have. Exhibits --

Q Five and six?

A -- five and six are bottom hole pressures that were run on these two zones. You will notice on the Exhibit No. 6, the Blinebry side, the bomb was set down at fifty-three hundred feet and extrapolated down to fifty-five hundred feet; and the bottom hole pressure at the datum, fifty-five hundred feet, was eight hundred eighty-four pounds.

In Exhibit 5, the bottom hole pressure measured at fifty-five hundred feet was eight hundred thirty pounds; a difference of fifty-four pounds between the two zones.

I also point out that the ball and seat in the Blinebry side would be holding any fluid that got above it and would not allow it to fall backwards. These bottom hole pressures were taken after forty-eight hours of shut-in and the bottom hole pressure on the Blinebry does not indicate a fluid head in the tubing string, which would be held up

by the balls and seats that were left in the Blinebry side.

Q Were these pressure tests taken specifically for the purpose of this hearing and to determine the existence of communication between these zones?

A These were taken after the packer leakage test, but they were taken specifically for this hearing.

Q What problems would be encountered by attempting to cure the communication problem that exists?

A Using the present techniques, we are working in too small a hole to try to patch, and the patching that we have tried inside the tubing has met with little success at this depth; so, we would have to revert to squeeze cementing.

The procedure we would have to use is to retrieve the pump first. In August, when we tried to retrieve the pump, we got hold of it one time and jarred on it for about two hours and finally broke the top off of it and came out with the top extension of the barrel.

We made another attempt at this time, before we swabbed the well in, and couldn't get a hold of it. So, it will be a fairly tedious job to get the pump barrel and the balls and seats out so that we can get down to the

Blindbry perforations where we will have to do our work.

As I said before, we will have to squeeze cement to repair the leak and since the two zones are in communication, either side that we squeeze we will inherently squeeze the other side at the same time because the cement will go through the channel and into the other string of pipe.

We indicated also that the bottom hole pressure is in the range of eight hundred thirty to eight hundred eighty-four pounds in either zone. If we do squeeze cement, we will be squeeze cementing against this lower pressure and we fear that we may permanently damage these zones when we do it.

If we are able to get the pump out, run a tracer survey and find out where the leak is and squeeze cement it, then we will have to go in and drill the cement out of each side. This will involve using a two-inch bit inside of this pipe to drill it out and any time that we have any trouble and have to fish for it, we will be working with such small equipment that we fear we may lose the hole at any point.

If we are able to squeeze it and -- our next problem will be to put the well back on production. Due

to low pressure the cement will go fairly deep into the perforations. We may have permanent damage. We will have to reperforate and restimulate the zones.

Now, if the leaks are directly across from each other like at the Blinbry perforations, where they could be -- the two pipes together, with holes in each pipe, then it would be impossible to squeeze cement and make that hole. There just would be no area for cement to remain.

If that's the case, it would be impossible to repair the leak. There are other possibilities; of course, we don't know how the leak is in there now. But, we are afraid that we may lose the hole completely if we try to repair this leak.

Q What alternative is there for attempting to cure this communication?

A The alternative; we feel, after we find where the tracer -- if the tracer would indicate where the leak is, if it's across from the upper perforation, I'm not sure what we can do about it.

Q What do you propose by your application in this case?

A We propose to continue producing the zones,

commingled as they are, until depletion. We feel that producing in this pattern, in keeping the zones at the lower pressure, would cause less -- would be less chance in migration of oil to any other zone and the zones could be depleted in this manner with no loss of production or oil to any other zone.

Q In your opinion, Mr. Miller, would approval of your application that is permitting you to continue to produce the well in its present condition as a commingled string, would there be less chance of physical waste occurring by approval of your application than there would by attempting to cure the communication that exists between these two zones?

A We feel that there will be because the zones are open and free to production now and are producing in accordance with this decline curve that I have shown.

If we attempt to cure this communication, we may possibly damage either one of the zones or we may lose the well completely. We feel that chances are maybe seventy-five percent that we may lose the zone completely and thereby waste would surely come about.

Q All right. Mr. Miller, I believe you previously pointed out that the combined production from the two zones

is less than the top allowable for either zone. In view of this, would there be any impairment of correlative rights of offset operators if your application is approved?

A No. There wouldn't be since the combined production of the both of them is less than the top allowable of either zone and my Exhibit No. 3 indicates that each zone is probably giving about half of the production that is being made now.

MR. MORRIS: At this time, Mr. Examiner, we will offer into evidence Applicant's Exhibits 1 through 6.

MR. NUTTER: Applicant's Exhibits 1 through 6 will be admitted in evidence.

MR. MORRIS: That's all I have of Mr. Miller on direct.

CROSS EXAMINATION

BY MR. NUTTER:

Q Mr. Miller, has any attempt been made to date to try to correct this communication?

A No, sir.

Q The only attempt you have made is to obtain the blessing of the Commission to the communication; is that correct?

A That is correct.

MR. NUTTER: Are there any further questions of Mr. Miller? He may be excused.

(Witness excused).

MR. NUTTER: Do you have anything further, Mr. Morris?

MR. MORRIS: No, sir.

MR. NUTTER: Does anyone have anything they wish to offer in Case 4289? Take the case under advisement.

I N D E X

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E X H I B I T S

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Blenda Burke
Notary Public

March 12, 1973

I do hereby certify that the foregoing is
a complete record of the proceedings at
the Examiner hearing of Case No. 4289
heard by me on 1/17/70
[Signature]
New Mexico Oil Conservation Board

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. 4289
Order No. R-3915

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 7, 1970, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 3rd day of February, 1970, 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 operator of the State "BB" Well No. 2, located in Unit D of Section 2, Township 25 South, Range 37 East, NMPH, Lea County, New Mexico.

(3) That said well is presently completed and equipped to produce oil from perforations in the Justis-Blinbry Pool from 5386 feet to 5774 feet and from perforations in the Justis Tubb-Drinkard Pool from 5916 feet to 6220 feet through parallel strings of 2 7/8-inch casing cemented in a common well-bore.

(4) That the evidence indicates that the Blinbry zone should be producing about 27 barrels of oil per day and that the Tubb-Drinkard zone should be producing about 29 barrels of oil per day.

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CASE No. 4289

Order No. R-3915

(5) That about 55 barrels of oil per day is being produced from the Blinebry string of casing and about 6 barrels of oil per day is being produced from the Tubb-Drinkard string of casing.

(6) That the evidence establishes that the subject zones are in communication with each other in the common well-bore.

(7) That the evidence establishes that oil from the Tubb-Drinkard formation or Tubb-Drinkard casing string, or both, is escaping into either the Blinebry formation or into the Blinebry casing string, or both.

(8) That the applicant proposes to continue producing the subject well in its present condition commingling the production from the subject pools in the common well-bore.

(9) That damage may result to either or both of the subject reservoirs if the subject well is continued to be produced in its present condition, thus causing waste and a violation of correlative rights.

(10) That the subject application should be denied.

(11) That the subject well should be repaired in order to prevent communication within the well-bore of the subject zones.

IT IS THEREFORE ORDERED:

(1) That the subject application is hereby denied.

(2) That the applicant, Getty Oil Company, is hereby ordered to take immediately such remedial action as is necessary to prevent communication between the Justis-Blinebry and Justis Tubb-Drinkard Pools in the well-bore of its State "BB" Well No. 2, located in Unit D of Section 2, Township 25 South, Range 37 East, NMPM, Lea County, New Mexico.

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

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CASE No. 4289

Order No. R-3915

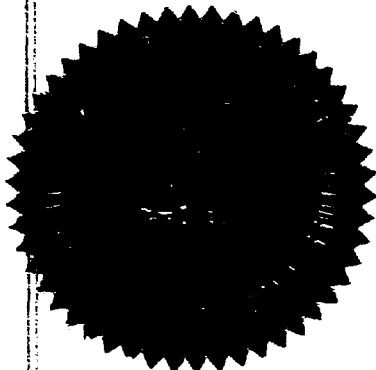
DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION


DAVID F. CARGO, Chairman


ALEX J. ARMILLO, Member


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



esr/

Docket No. 1-70

DOCKET: EXAMINER HEARING - WEDNESDAY - JANUARY 7, 1960

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
A. L. Porter, Jr., Alternate Examiner:

- CASE 4286: Application of Gulf Oil Corporation for an exception to Order No. R-3221, as amended, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an exception to Order No. R-3221, as amended, which order prohibits the disposal of water produced in conjunction with the production of oil on the surface of the ground in Lea, Eddy, Chaves, and Roosevelt Counties, New Mexico. Said exception would be for applicant's Littlefield "AB" Federal Lease, located in Section 22, Township 18 South, Range 31 East, Shugart Field, Eddy County, New Mexico. Applicant seeks authority to dispose of salt water produced by wells on said lease in unlined surface pits in said Section 22.
- CASE 4287: Application of Continental Oil Company, for a waterflood expansion and unorthodox injection well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to expand its Forest Donahue Waterflood Project, Forest Pool, by the injection of water through one additional well located at an unorthodox location 1960 feet from the North line and 1450 feet from the West line of Section 35, Township 16 South, Range 29 East, Eddy County, New Mexico.
- CASE 4288: Application of Wood, McShane and Thams-COLORADO for an unorthodox oil well location and waterflood expansion, Lea County, New Mexico. Applicants, in the above-styled cause, seek authority to drill their Well No. 63, a producing oil well, at an unorthodox location 2740 feet from the South line and 1280 feet from the East line of Section 30, Township 22 South, Range 37 East, as an infill well in the Gumble Oil & Refining Company State "M" Lease Waterflood Project, Langley-Matrix Pool, Lea County, New Mexico. Applicants further seek to expand said project by the conversion to water injection of their Wells Nos. 27 and 39 located, respectively, in Units H and J of said Section 30. Applicants also seek a procedure whereby additional producing wells and injection wells at orthodox and unorthodox locations in said project may be approved administratively.

January 7, 1970 - Examiner Hearing

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Docket No. 1-70

CASE 4289: Application of Getty Oil Company for downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to commingle production from the Justis-Blinebry and Justis-Tubb Drinkard Pools in the wellbore of its State "BB" Well No. 2 located in Unit D of Section 2, Township 25 South, Range 37 East, Lea County, New Mexico.

CASE 4290: Application of Getty Oil Company for a non-standard oil proration unit, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of an 80-acre non-standard proration unit comprising the SE/4 NE/4 and the NE/4 SE/4 of Section 29, Township 18 South, Range 38 East, Hobbs-Drinkard Pool, Lea County, New Mexico, said unit to be dedicated to a well to be drilled at a standard location in the NE/4 SE/4 of said Section 29.

CASE 3993: (Reopened)

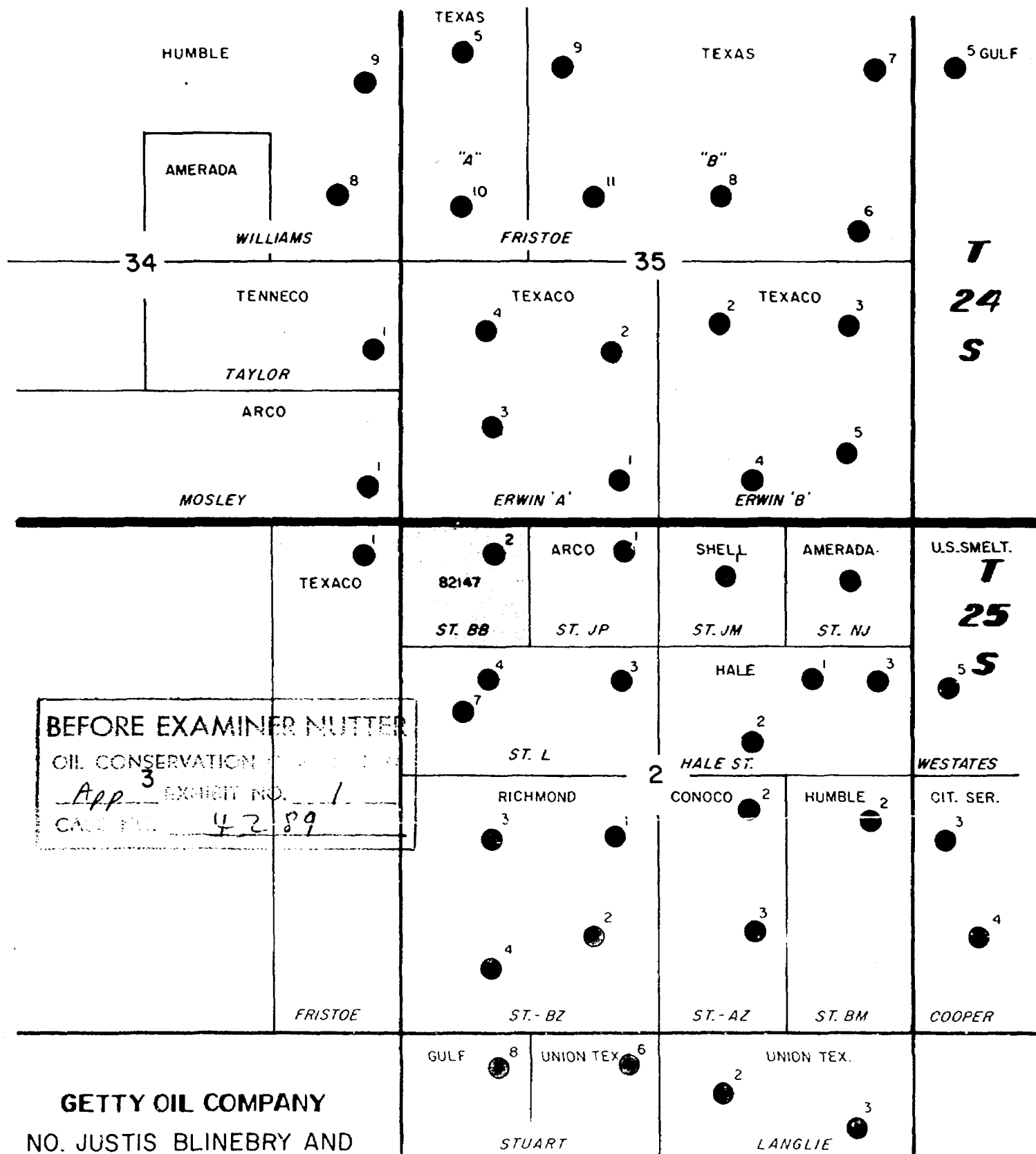
In the matter of Case No. 3993 being reopened pursuant to the provisions of Order No. R-3644, which order established 160-acre spacing units for the North Baum-Upper Pennsylvanian Pool, Lea County, New Mexico, for a one-year period. All interested parties may appear and show cause why said pool should not be developed on less than 160-acre units and why the proportional factor of 4.77 assigned to the pool should or should not be retained.

CASE 4202: (Reopened)

In the matter of Case 4202 being reopened at the request of the applicant, Mobil Oil Corporation. Applicant, in the original hearing of this case, sought permission to institute a water-flood project in the Langlie Mattix Queen Unit Area, Langlie-Mattix Pool, by the injection of water into the Queen sand formation through 17 injection wells at orthodox and unorthodox locations in Sections 10, 11, 14, 15, 22, and 23, Township 25 South, Range 37 East, Lea County, New Mexico. The Commission, by Order No. R-3823, authorized the applicant to inject water through 16 wells and denied the applicant authority to inject water through the proposed injection Well No. 14 to be drilled 660 feet from the North line and 1220 feet from the West line of said Section 14. Applicant seeks authority to now complete said Well No. 14 as a water injection well, alleging that negotiations for the acquisition or inclusion of a acreage offsetting said Well No. 14 have not been successful, that failure to inject water through the well will result in the loss of approximately 200,000 barrels of oil, and that said injection will not violate the correlative rights of the offset operation.

- CASE 4291: Application of Atlantic Richfield Company for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Yates formation in the perforated and open-hole interval from 2892 feet to 3164 feet in its W. E. Hanagan Well No. 4 located 2173 feet from the South and West lines of Section 12, Township 25 South, Range 36 East, Jalmat Pool, Lea County, New Mexico.
- CASE 4292: Application of Continental Oil Company for a non-standard gas proration unit, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the consolidation of two existing non-standard gas proration units into one 320-acre non-standard unit comprising the S/2 N/2 and the SE/4 of Section 1, Township 22 South, Range 36 East, Eumont Gas Pool, Lea County, New Mexico, to be dedicated to its Lockhart B-1 Wells Nos. 4 and 6, located in Units G and P, respectively, of said Section 1. Applicant further seeks authority to produce the allowable assigned to said unit from either of the aforesaid wells in any proportion.
- CASE 4778: (Continued from the December 17th Examiner Hearing and will be dismissed).
Application of Anne Burnett Windfohr, dba Windfohr Oil Company, for an exception to Order No. R-3221, as amended, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an exception to Order No. R-3221, as amended, which order prohibits the disposal of water produced in conjunction with the production of oil on the surface of the ground in Lea, Eddy, Chaves, and Roosevelt Counties, New Mexico. Said exception would be for applicant's Gissler B Wells Nos. 11 and 12, located, respectively, in Units J and I of Section 23, Township 17 South, Range 30 East, Jackson-Abo Pool, Eddy County, New Mexico. Applicant seeks authority to dispose of salt water produced by said wells in unlined surface pits in the vicinity of said wells.
- CASE 4279: (Continued from the December 17th Examiner Hearing and will be dismissed).
Application of Anne Burnett Windfohr, dba Windfohr Oil Company, for an exception to Order No. R-3221, as amended, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an exception to Order No. R-3221, as amended, which order prohibits the disposal of water produced in conjunction with the production of oil on the surface of the ground in Lea, Eddy, Chaves, and Roosevelt Counties, New Mexico. Said exception would be for applicant's Gissler B Well No. 4 located in Unit B of Section 8, Township 17 South, Range 30 East, Grayburg-Jackson Pool, Eddy County, New Mexico. Applicant seeks authority to dispose of salt water produced by said well in an unlined surface pit in the vicinity of said well.

R-37-E



GETTY OIL COMPANY
NO. JUSTIS BLINEBRY AND
TUBB-BLINEBRY FIELDS

- BLINEBRY
- TUBB-DRINKARD
- BLINE - DRINKARD DUAL

LEA COUNTY, NEW MEXICO

GETTY OIL COMPANY

STATE "BB" NO. 2. (OLD GETTY STATE "G" NO. 2)

JUSTIS FIELD (BLINEBRY AND DRINKARD ZONES)

LEA COUNTY, NEW MEXICO

PRODUCING ZONE

DATE	BLINEBRY		DRINKARD		BOTH ZONES	
	Oil Bbl.	Gas MCF	Oil Bbl.	Gas MCF	Oil Bbl.	Gas MCF
1963 May	840	585	841	835	1681	1420
June	1485	1034	1351	1342	2836	2376
July	1682	1171	1520	1509	3202	2680
August	1626	1132	1459	1449	3085	2581
September	1574	992	1425	1415	2999	2407
October	1710	1190	1619	1608	3329	2798
November	1412	241	1553	135	2965	376
December	1701	179	1506	23	3207	202
1964 January	1825	294	1309	132	3134	426
February	1325	1011	1399	1290	2724	2301
March	1635	1335	1810	2249	3445	3584
April	1507	1523	1462	1878	2969	3401
May	1632	1717	1424	1924	3056	3641
June	1479	2019	1686	3027	3165	5046
July	1613	2248	1330	2455	2943	4703
August	1349	2124	1683	3490	3032	5614
September	1570	1823	1757	2658	3327	4481
October	1622	1852	1226	1819	2848	3691
November	1386	1676	1530	2391	2916	4067
December	1705	1647	1626	2729	3331	4376
1965 January	1642	2385	1578	4112	3220	6497
February	1541	2159	1541	3888	3082	6047
March	1498	2281	1667	4928	3165	7209
April	1547	2538	1560	4643	3107	7181
May	1317	3409	1705	3594	3022	7003
June	1523	6593	1536	2734	3059	9327
July	1514	9709	1758	10,388	3272	20,097
August	1752	6245	1027	1543	2779	7788
September	1055	4743	1259	2386	2314	7129
October	1434	5899	1327	2302	2761	8201
November	1599	4904	792	1024	2391	5928
December	1643	7209	994	1858	2637	9067

BEFORE THE MINER NUTTER

COMMISSION

EXHIBIT NO. 2

PRODUCING ZONE

DATE	BLINEBRY		DRINKARD		BOTH ZONES	
	Oil Bbl.	Gas MCF	Oil Bbl.	Gas MCF	Oil Bbl.	Gas MCF
1966 January	1725	4629	1210	3771	2935	8400
February	1498	5600	1277	2013	2775	7613
March	1590	7006	1288	2393	2878	9399
April	1397	4999	915	1380	2312	6379
May	1407	5730	1303	2831	2710	8561
June	1062	5477	1489	4097	2551	9574
July	872	4699	1434	4123	2306	8822
August	768	2618	1254	5363	2022	7981
September	1060	3460	1380	5651	2440	9111
October	1147	4122	1337	4544	2484	8666
November	1132	4351	1225	4452	2357	8803
December	986	3160	1313	3980	2299	7140
1967 January	983	2757	1374	3643	2357	6400
February	889	2666	1151	3264	2040	5930
March	989	3155	1218	3674	2207	6829
April	956	3071	1098	3335	2054	6406
May	855	3666	984	1875	1839	5541
June	931	4490	1033	2214	1964	6704
July	970	4115	888	2027	1858	6142
August	967	4637	928	1978	1895	6615
September	928	4544	904	1968	1832	6512
October	927	4478	965	2073	1892	6551
November	904	3428	950	1603	1854	5031
December	922	3623	956	1672	1878	5295
1968 January	882	3548	977	1767	1859	5315
February	826	3262	908	1595	1734	4857
March	864	3540	932	1715	1796	5255
April	842	3577	901	1718	1743	5295
May	1099	3159	977	2838	2076	5997
June	1430	3671	735	1922	2165	5593
July	1597	3946	636	3941	2233	7887
August	1417	4643	457	3763	1874	8406
September	1612	4121	493	3191	2105	7312
October	1841	4788	464	3063	2305	7851
November	1743	4228	450	2769	2193	6997
December	1483	3793	372	2409	1855	6202
1969 January	1696	1996	310	4983	2006	6979
February	1157	3448	280	2089	1437	5537
March	1201	2034	310	1322	1511	3356
April	1729	2900	300	1276	2029	4176
May	1986	2179	372	225	2358	2404
June	1433	2327	240	207	1673	2534
July	1163	1872	137	116	1300	1988
August	1881	5921	248	557	2129	6478
September	1901	7294	90	242	1991	7536
October	1674	6577	90	257	1764	6834
November	1648	5326	165	373	1813	5699
CUMULATIVE						
12-1-69	107,713	272,498	84,976	194,020	192,691	466,518

GETTY OIL COMPANY
 STATE "BB" #2
 NW/4 NW/4 Sec.2,
 T25S R37E
 Justis Field
 Lea County, New Mex.
 Tubb-Drinkard &
 Blinebry Dual

9-5/8", 36#/ft, J-55 @907'
 (Circulated Cement)

Cement Top @1300' w/Temp.
 Survey

Pump Barrel w/2 Ball & Seats
 Hold down & Pack off

5226'

Blinebry Perfs.

5386-94'
 5404-08'
 5418-22'
 5428-32'
 5464-68'
 5556-64'
 5618-36'
 5690-94'
 5742-46'
 5764-68'
 5770-74'

Glorieta
 Blinebry

5884'

Blinebry
 Tubb

BEFORE EXAMINER NUTTER
 OIL CONSERVATION DISTRICT NO. 1
 App EXHIBIT NO. 4 6074'
 CASE NO. 4289

Tubb
 Drinkard

Tubb Drinkard
 Perfs.
 5916-22
 5933-36
 5954-63
 5976-82
 5990-6000
 6046-66
 6072-75
 6095-6110
 6119-24
 6134-46
 6155-62
 6194-6204
 6216-20
 w/2 per ft.

Two Strings
 2-7/8", 6.5#/ft, J-55 @6300'

PBTD 6270'



COLLEGE EXAMINER ENGINEERING COMPANY

OIL CONSERVATION SECTION

EXHIBIT NO. 5
CASE NO. 4257

PHONE EXPRESS 3-3813
611 GRIMES
P. O. BOX 1829
HOBBS, NEW MEXICO

BOTTOM HOLE PRESSURE RECORD

OPERATOR GETTY OIL COMPANY

FIELD JUSTIS FORMATION TUBB DRINKARD

LEASE STATE BB WELL NO. 2

COUNTY LEA STATE NEW MEXICO

DATE 12-9-69 TIME 9:00 AM

Status SHUT IN Test depth 5500'

Time S. 49.0 HRS Last test date INITIAL

Tub Pres. 721 BHP last test -

Cas. Pres. - BHP change -

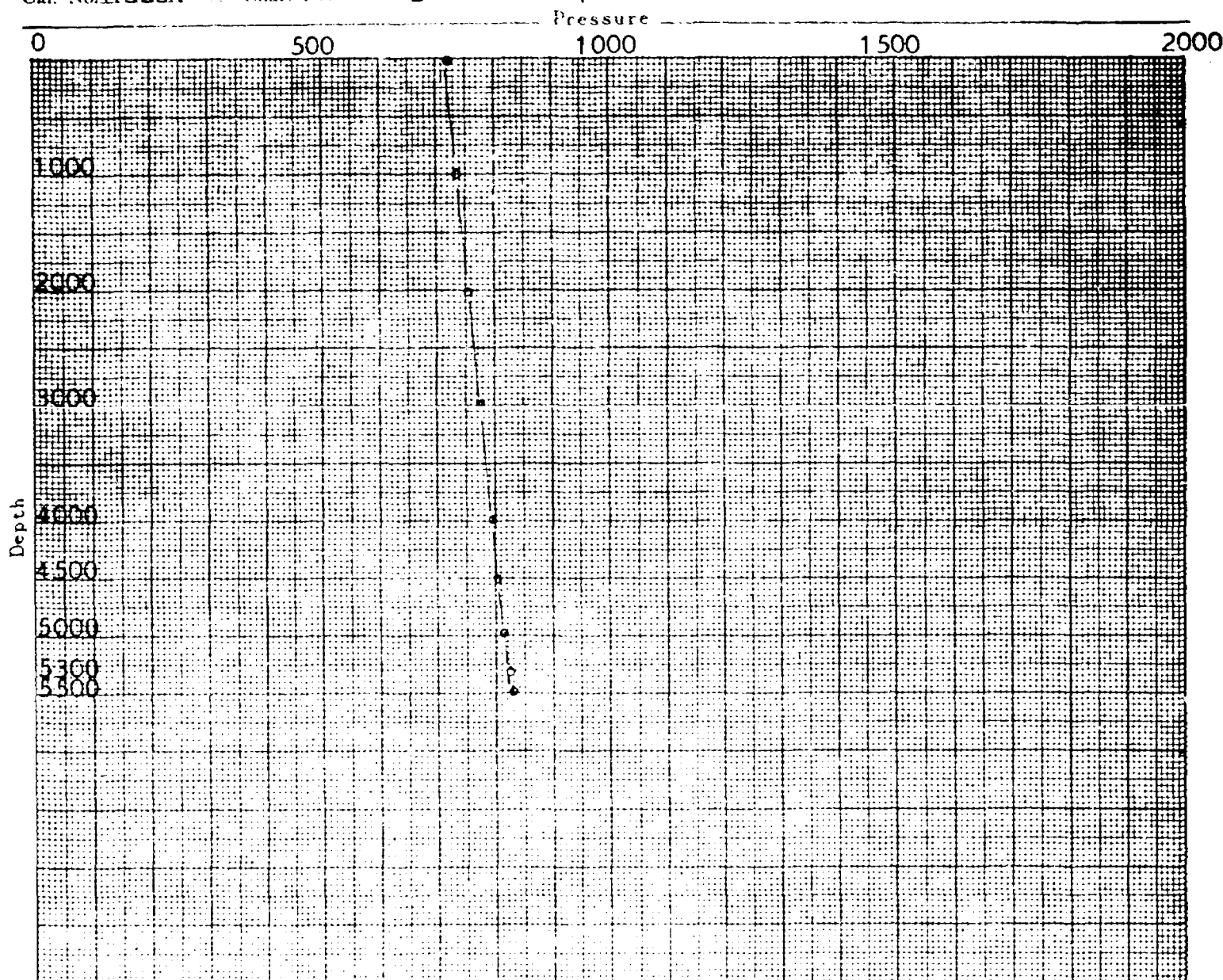
Elev. 3190' KB Fluid top NONE

Datum (-2310) Water top NONE

Temp. @ 95°F Run by WEAVER

Cal. No. A4586N Chart No. 2

Depth	Pressure	Gradient
0	721	-
1000	730	.009
2000	752	.022
3000	774	.022
4000	796	.022
4500	807	.022
5000	818	.022
5300	825	.023
5500	830	.025





COLEMAN PETROLEUM ENGINEERING COMPANY

OIL CONSERVATION COMMISSION

App EXHIBIT NO. 6
CASE NO. 4289

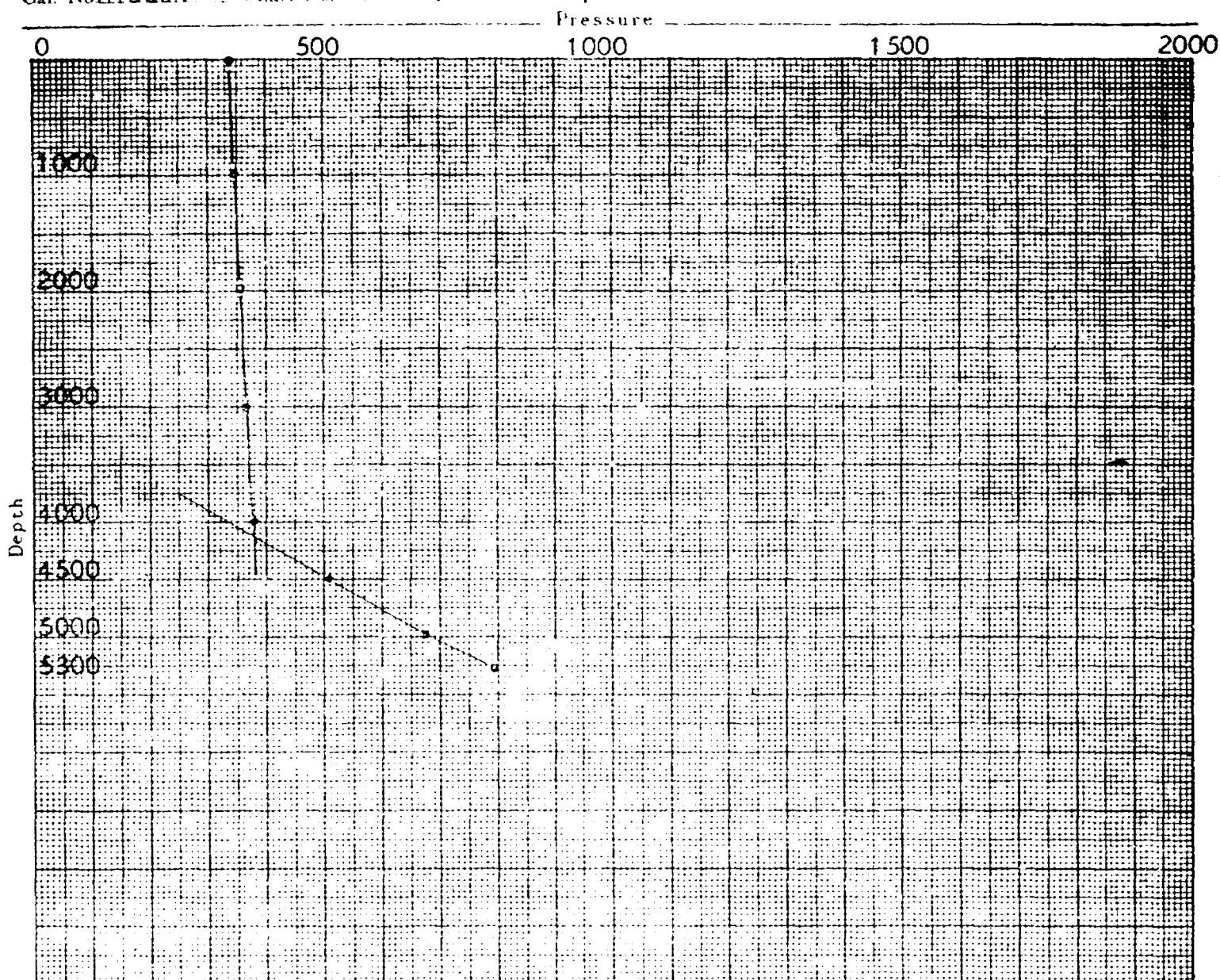
PHONE EXPRESS 3-3613
611 GRIMES
P O BOX 1629
HOBBS, NEW MEXICO

BOTTOM HOLE PRESSURE RECORD

OPERATOR GETTY OIL COMPANY
FIELD JUSTIS FORMATION BLINEBRY
LEASE STATE BB WELL No. 2
COUNTY LEA STATE NEW MEXICO
DATE 12-9-69 TIME 8:00 AM
Status SHUT IN Test depth 5300'
Time S. I 48.0 HRS Last test date INITIAL
Tub Pres. 335 BHP last test -
Gas. Pres. - BHP change -
Elev. 3190' KB Fluid top 4168'
Datum. (-2310) Water top 5000'
Temp. @ 93°F Run by WEAVER
Cal. No. A4586N Chart No. 1

Depth	Pressure	Gradient
0	335	-
1000	346	.011
2000	357	.011
3000	368	.011
4000	380	.012
4500	506	.252
5000	672	.332
5300	799	.423
5500(-2310)	884*	(.423)

* EXTRAPOLATED PRESSURE



BEFORE THE NEW MEXICO OIL CONSERVATION COMMISSION

APPLICATION OF GETTY OIL COMPANY
FOR APPROVAL OF DOWNHOLE COMMINGLING,
JUSTIS BLINEBRY AND JUSTIS TUBB-
DRINKARD POOLS, LEA COUNTY, NEW MEXICO)

No. 4289

A P P L I C A T I O N

Comes now Getty Oil Company and applies to the New Mexico Oil Conservation Commission for approval of downhole commingling of production from the Justis Blinebry and Justis Tubb-Drinkard Pools, and in support of its application states:

1. Applicant is the operator of the Getty State "BB" Well No. 2 located in Unit D of Section 2, T. 25 S., R. 37 E., Lea County, New Mexico.
2. The subject well is completed in the Justis Blinebry and in the Justis Tubb-Drinkard Pools. Present production from the Justis Blinebry Zone appears to be between 50-55 barrels of oil per day and production from the Tubb-Drinkard Zone appears to be approximately 5-8 barrels of oil per day; however, due to communication between the two zones it is probable that each zone is producing approximately half of the total production from this well.
3. The expense of curing the communication that appears to exist between these zones at the present time would be prohibitive and, unless this application is granted, it will be necessary to shut in one of the producing zones.
4. This application can be granted without causing waste or impairing correlative rights. Conversely, waste will occur and correlative rights will be impaired unless the application is granted.

WHEREFORE, Getty Oil Company requests that this application be set for hearing before the Commission or one of its examiners

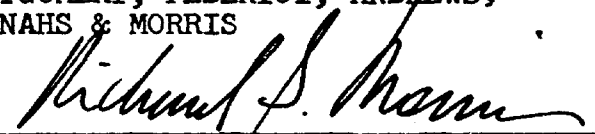
DOCKET MAILED

Date 12-24-69

and that the Commission enter its order approving this application.

MONTGOMERY, FEDERICI, ANDREWS,
HANNAHS & MORRIS

By



P. O. Box 2307
Santa Fe, New Mexico 87501
Attorneys for Getty Oil Company

DRAFT

GMH/esr

January 30, 1970

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. 4289

Order No. R-3915

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 7, 19670,
at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this _____ day of February, 19670, 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 operator
of the State "BB" Well No. 2, located in Unit D of Section 2,
Township 25 South, Range 37 East, NMPM, Lea County, New Mexico.

(3) That said well is presently completed and equipped to
produce oil from perforations in the Justis-Blinebry Pool from
5386 feet to 5774 feet and from perforations in the Justis-Tubb-
Drinkard Pool from 5916 feet to 6220 feet through parallel
strings of 2 7/8-inch casing cemented in a common well-bore.

(4) That the Blinebry zone should be producing about 27
barrels of oil per day and that the Tubb-Drinkard zone should be
producing about 29 barrels of oil per day.

(5) That about 55 barrels of oil per day is being produced from the Blinebry string of casing and about 6 barrels of oil per day is being produced from the Tubb-Drinkard string of casing.

(6) That the evidence establishes that the subject zones are in communication with each other in the common well-bore.

(7) That the evidence establishes that oil from the Tubb-
on Tubb-Drinkard casing string, or both.
Drinkard formation ^Ais escaping into either the Blinebry formation or into the Blinebry casing string, or both.

(8) That the applicant proposes to continue producing the subject well in its present condition commingling the production from the subject pools in the common well-bore.

(9) That damage may result to either or both of the subject reservoirs if the subject well is continued to be produced in its present condition, thus causing waste and a violation of correlative rights.

(10) That the subject application should be denied.

(11) That the subject well should be repaired in order to prevent communication within the well-bore of the subject zones.

IT IS THEREFORE ORDERED:

(1) That the subject application is hereby denied.

(2) That the applicant, Getty Oil Company, is hereby ordered to take ^{*immediately*} such remedial action as is necessary to prevent communication between the Justis-Blinebry and Justis-Tubb-Drinkard Pools in the well-bore of its State "BB" Well No. 2, located in Unit D of Section 2, Township 25 South, Range 37 East, NMPM, Lea County, New Mexico.

(3) 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.