

# CASE RECORD FILE

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CASE 5278: Application of TEXACO  
FOR DOWNHOLE COMMINGLING, LEA  
COUNTY, NEW MEXICO.

CASE No.

5278

Application,

Transcripts,

Small Exhibits

ETC.



I N D E X

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MR. STAMETS: Call the next Case, 5278.

MR. CARR: Case 5278. Application of Texaco, Inc.  
for downhole commingling, Lea County, New Mexico.

MR. STAMETS: Call for appearances in Case 5278.

MR. KELLY: Booker Kelly of White, Koch, Kelly  
& McCarthy of Santa Fe on behalf of the Applicant, Mr.  
Examiner.

MR. STAMETS: Any other appearances? You may  
proceed Mr. Kelly.

MR. KELLY: Mr. Examiner, we have a large number  
of exhibits because there are three wells involved.

MR. STAMETS: Would you like to have your Wit-  
ness stand and be sworn in the interim?

MR. KELLY: Yes, sir.

(Witness sworn.)

EUGENE CRAIG HINRICHS

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

DIRECT EXAMINATION

BY MR. KELLY:

Q Would you state your full name, your employer and  
position that you hold?

A My name is Eugene Craig Hinrichs; I work for

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Texaco; I'm the District Production Engineer in Hobbs, New Mexico.

Q Have you previously qualified as an expert witness in the field of Petroleum Engineering before the Commission?

A Yes, I have.

Q Referring to the plat that has been marked as Exhibit No. 1, would you explain what Texaco seeks by this Application?

A We have three wells that we seek to triple downhole commingle, the Blinebry, Tubb and Drinkard zones. The first well is A.H. Blinebry NCT 1 Well No. 23. This is located in Section 29, Township 22 South, Range 38 East. The well is located 660 feet from the north line and 1980 feet from the west line. This well is presently completed in the Blinebry and Drinkard as a dual completion. We wish to open the Tubb and produce all three from one string of 10-7/8th-inch casing. We previously received approval to downhole commingle the Blinebry and Drinkard but this was not done because of waiting to open this thing in the Tubb zone and that was approved by administrative Order DC 133 issued May 20th of 1973.

The next well is A.H. Blinebry NCT 1 No. 26



which is also completed in the Blinebry and Drinkard as a dual completion. We wish to open the Tubb in this well. It is located 650 feet from the north line, 1980 from the east line of Section 29, Township 22 South, Range 38 East. This well also has approval for downhole commingling the Blinebry and Drinkard but has not been done yet; we are waiting on the opening of the Tubb. This was approved by administrative Order DC 134 issued May 20th, 1973.

The third well we wish to downhole commingle is located in Section 18, Township 22 South, Range 38 East. This well is located 660 feet from the north line and 1980 feet from the west line. It's C.H. Lockhart Federal NCT 1 Well No. 5. This well is currently downhole commingled in the Tubb and Drinkard and we wish to open the Blinebry and shut the downhole commingle with three and produce it from one string of 5-1/2 casing.

Q All right. Let's start with the Well No. 23 and referring to Exhibits 2 and 3 you propose in your present completion. Would you explain that to the Commission?

A This well is currently a dual completion authorized by administrative Order MC 1607 issued March 17 of 1965. This well is currently producing from Blinebry perms from 5624 to 5791 and Drinkard perms from 5869 to 7048.

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This well has 8-5/8ths-inch surface casing set a 1303 with cement circulated behind it. There are two strings of 2-7/8-inch casings; one set at 7097, the other at 7099. These two strings were cemented with 800 sacks of cement and the calculated cement top is at 2850. Our proposed completion: We will open the Tubb from 6152 to 6266 in the present Blinebry string. We will then communicate the strings down in the Drinkard interval and pump the well from the Drinkard zone and vent gas from the old Blinebry string.

Q All right. Now, you have Exhibit No. 4, which gives all the pertinent data for the three pools involved. Would you go over that briefly for the Examiner?

A This shows the production data for the Blinebry and Drinkard as it is actually measured in the proposed for the Tubb, which is estimated based on nearby Tubb production. The Blinebry and Drinkard are both pumping and the Tubb will need artificial lift upon completion. The bottomhole pressures are similar and this shows that there will be no cross-flow and also will keep the well pumped down so there will be no cross-flow between zones. All three crudes are sweet and gravities are similar and they are presently being commingled at the surface, the

Blinebry and Drinkard, and Tubb from other wells on the lease, so there is no compatibility problem. Also, these three zones are downhole commingled in A.H. Blinebry NCT 1 Well No. 28, which is two locations east of the subject well, and this was approved by administrative Order R-4587 issued July 13, 1973. Also, these three zones are downhole commingled in A.H. Blinebry NCT 1 Well No. 20, which is three locations north and one location west of the subject well. This was approved by Order R-4554 issued June 15th, 1973, and we have no compatibility problems in any of these wells and we don't anticipate any for the subject well. The GORs for these wells are somewhat high, but this is due to low oil production more than high gas production. We estimate that we will produce 181 mcf of gas, which is well within the allowable limits of 284. There would be no penalty due to over production of gas.

MR. STAMETS: Now that will be within the allowable limits of which pool at what GOR?

MR. HINRICHS: That's the Tubb pool, which is the lowest GOR.

MR. STAMETS: Okay. Thank you.

BY MR. KELLY:

Q You have some decline curves on these two producing

additional revenue in the form of a tax on the  
If we are not allowed to sell the product in the  
Allegany and McIntosh counties, the product will  
economic loss to the people of the county. If we  
produce only the food and the additional revenue that  
we would be able to receive would be a loss to the  
these two zones.

Mr. Magallon, what is the price of the product?

The price of the product is \$1.00 per bushel.  
The price of the product is \$1.00 per bushel.  
The price of the product is \$1.00 per bushel.  
The price of the product is \$1.00 per bushel.

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please?

MR. HINRICHS: 87 percent for the Tubb, 9 percent for the Drinkard, and 4 percent for the Blinebry.

MR. STAMETS: Thank you.

BY MR. KELLY:

Q Now, go on to Well No. 23. Do you have any proposed and present completion sketches on those?

A This is for Well 26?

Q 26, excuse me.

A This well is currently a dual completion from the Blinebry and Drinkard authorized by administrative Order MC 1643 issued July 6th of 1965. This well has 9-5/8th-inch surface casing set at 1394 with cement circulated behind it. There are two strings of 2-7/8th-inch casing, both set at 7197. The well is currently producing from Blinebry purse from 5626 to 5831 and from Drinkard purse from 6973 to 7169. The two strings of 2-7/8th-inch casing were cemented with 1200 sacks of cement with a calculated cement top at 2350.

Our proposed completion, shown on Exhibit 8, we will recomplate the Tubb from 6236 to 6347 in the old Blinebry strain, communicate the two strains in the Drinkard interval and pump from the Drinkard and vent

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gas from the old Blinebry strain.

Q You have a well data sheet on this well also, correct?

A Yes, I do. This also shows the production data from the Blinebry and Drinkard, which is actual production and from the estimated Tubb. The bottomhole pressures are similar and the well would be kept pumped down so there would be no cross flow between zones. Also, the gravities are similar and they are the same type of crude, all three are sweet, so there would be no compatibility problem. Also, as I mentioned before, these three zones are downhole commingled in A.H. Blinebry NCT 1, 20 and 28. The gas production from this well will be 77 mcf per day, which is within the allowed limits of 284.

Q Now, you have got a lower estimate for the Tubb in this well? The Exhibit has been corrected?

A Yes, it has.

Q All right. You have got performance curves on the two separate pools which are now presently producing?

A Yes, I do. Exhibits 10 and 11 show the production history for the Blinebry and the Drinkard. These are also on .6 percent decline and we have a proposed allocation for this well after commingling. It is the same as the

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previous well; 4 percent to the Blinebry, 9 percent to the Drinkard, and 87 percent to the Tubb.

Q And you have an estimate of what additional reserves you would be able to recover if this Application is granted?

A Yes, I do. 3700 barrels.

Q It would significantly prolong the life of the three zones?

A Yes, it will.

Q Okay. Let's go on to Well No. 5?

A C.H. Lockhart, Well No. 5.

Q Referring to your proposed and present completion, Exhibits Nos. 12 and 13?

A Exhibit 12 shows the present completion. This Well is currently downhole commingled in the Tubb and Drinkard zones as was authorized by administrative Order DHC 13 issued December 10th, 1969. The well was originally a dual completion as authorized by administrative Order DC 990. The Well currently has 13-3/8th-inch surface casing set at 396, with cement circulated behind it. There is an intermediate string of 8-5/8th-inch casing set at 2830. Cement is circulated behind it also. The oil string is 5-1/2-inch casing set at 6840, which was cemented

with 500 sacks and the cement top was calculated at 3415. The Tubb and Drinkard are currently downhole commingled and producing out of one string of 2-3/8th-inch tubing which was set at 6770. The proposed completion is shown on Exhibit 13. What we plan to do is to open the Tubb from 6170 to 6210, I beg your pardon, the Blinebry from 5580 to 5753 and downhole commingle it with the Tubb and Drinkard and produce out of one string of 2-3/8th-inch tubing.

Q All right. Go on to your well data; that would be Exhibit No. 15, or 14.

A This shows actual production for the Tubb-Drinkard commingled zones and our estimated production data from the Blinebry. As in the previous wells mentioned, the bottomhole pressures of each zone are similar and the well will be kept pumped down so there will be no cross flow between zones. All crudes are sweet and gravities are similar so there will be no compatibility problems, and likewise, these three zones are commingled in the two wells I mentioned previously, A.H. Blinebry NCT 1, 20 and 28. The GOR for the Tubb-Drinkard is 26,000, which is pretty high, but our gas production after commingling will be 186 mcf which is within the limits of 284.

Q All right. Now, Exhibits 15 and 16 are your two



performance curves. Would you explain those?

A Yes. These indicate 26 percent decline for each zone and we have an allocation for each zone. Currently the allocation for the downhole-commingled Tubb and Drinkard is 63 percent to the Tubb and 37 percent to the Drinkard, and based on this our 6 barrels per day was broken out 4 barrels to the Tubb and 2 to the Drinkard. Based on production of 15 barrels per day from the Blinebry we recommend an allocation of 19 percent to the Tubb, 10 percent to the Drinkard, and 71 percent to the Blinebry.

Q What is your estimate of additional recoverable reserves?

A By commingling this we'll recover an additional 2400 barrels of oil.

Q All right. In summary, as I understand it, the three zones are commingled in the area?

A That's right.

Q Successfully?

A That's correct.

Q And your crudes are compatible and your downhole pressures are reasonably equal?

A That's right.

Q In your opinion, the granting of this Application

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CROSS

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will prevent waste in the three wells by allowing you to recover oil and gas that would otherwise be lost?

A That's right.

Q Were Exhibits 1 through 16 prepared by you or under your supervision?

A Yes, they were.

MR. KELLY: We move the introduction of Texaco's Exhibits 1 through 16.

MR. STAMETS: These Exhibits will be admitted.

(Whereupon, Texaco's Exhibits Nos.

1 through 16 were admitted into evidence.)

CROSS EXAMINATION

BY MR. STAMETS:

Q Mr. Hinrichs, is it possible that upon completion you might get somewhat different production from these zones than you anticipated and the percentages would be different than you proposed here?

A Yes, that is possible. The change would be from the zones that were opened up and in that case we recommend the subtraction method to determine what is coming from the new zone. In other words, if we estimated 20 for the Tubb and we have an actual production of 3 barrels a day from the Blinbry and Drinkard, that would come out to 23. If we get 30 barrels a day we would have to assume that 27

of that was coming from the Tubb and reallocate it and repropotion it according to that.

Q Would it be better to have an Order which allows you to make this determination following completion rather then spelling out the percentages?

A That would probably be a good idea. We did this as an example to show you how we would do it.

Q How long do you think it would take after completion of these zones to establish enough of a pattern to make that determination?

A I think probably about a month it would take to stabilize it.

Q You would notify the District Office of the date and time of the production tests?

A Yes.

MR. STAMETS: Are there any other questions of the Witness? He may be excused. Anything further in this Case? We will take the Case under advisement.

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STATE OF NEW MEXICO )  
COUNTY OF SANTA FE ) SS.

I, RICHARD L. NYE, Court Reporter, do hereby certify that the foregoing and attached Transcript of Hearing before the New Mexico Oil Conservation Commission was reported by me, and the same is a true and correct record of the said proceedings, to the best of my knowledge, skill and ability.

*Richard L. Nye*  
RICHARD L. NYE, Court Reporter

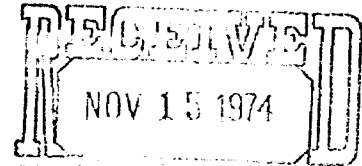
I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 5278 heard by me on July 24, 1974.  
*Richard L. Nye*  
Examiner  
New Mexico Oil Conservation Commission

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PETROLEUM PRODUCTS

November 14, 1974



OIL CONSERVATION COMMISSION  
TEXACO COMM  
SANDRA WER 728  
HOBBS, NEW MEXICO 88240

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

Re: Order R-4837  
Downhole Commingle  
A.H. Blinsbry Fed. NCT-1 No. 26

Attention: Mr. A. L. Porter

Gentlemen:

TEXACO's A. H. Blinsbry Federal NCT-1 Well No. 26 was recently downhole commingled in the Blinsbry, Tubb, and Drinkard zones as authorized by NMOCC Order No. R-4837 issued August 13, 1974. Prior to commingling this well was producing 2 BOPD from the Drinkard zone and 1 BOPD from the Blinsbry zone. After recompletion in the Tubb and commingling with the Blinsbry and Drinkard, this well produced 38 BOPD. The 35 BOPD increase in this well's production is attributed to the recompletion in the Tubb zone. As per paragraph 2 of the above mentioned order the following production allocation was agreed upon by Messrs. J. D. Ramey and E. C. Hinrichs in their telephone conversation November 13, 1974:

Tubb	92%
Drinkard	5%
Blinsbry	3%

Yours very truly,

*J. V. Gannon*  
J. V. Gannon

District Superintendent

ECH/kw  
OCC-Hobbs  
USGS-Hobbs



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. 5278  
Order No. R-4837

APPLICATION OF TEXACO, INC.  
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 July 24, 1974,  
at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this 13th day of August, 1974, 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, Texaco, Inc., is the owner and  
operator of its A. H. Blinebry Federal (NCT-1) Wells Nos. 23 and  
26, located in Units C and B, respectively, of Section 29, and  
its C. H. Lockhart Federal Well No. 5, located in Unit C of  
Section 18, all in Township 22 South, Range 38 East, NMPM, Lea  
County, New Mexico.

(3) That the subject wells are currently completed as  
follows:

A. H. Blinebry Federal (NCT-1) Well No. 23:

dual completion (tubingless) producing oil from the  
Drinkard and oil from the Blinebry formation through  
two strings of 2 7/8-inch casing cemented in a  
common wellbore.

A. H. Blinebry Federal (NCT-1) Well No. 26:

dual completion (tubingless) producing oil  
from the Drinkard and oil from the Blinebry

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Order No. R-4837

formation through two strings of 2 7/8-inch casing cemented in a common wellbore.

C. H. Lockhart Federal Well No. 5:

dual completion, downhole commingled, producing commingled oil from the Tubb and Drinkard formations through a single string of 2 3/8-inch casing.

(4) That the applicant proposes to recomplete each of the subject wells as follows:

A. H. Blinebry Federal (NCT-1) Well No. 23:

triple completion, tubingless, downhole commingled, to produce oil from the Blinebry, Drinkard, and Tubb formations through one string of casing with all or part of the commingled gas production being produced through a second string of casing.

A. H. Blinebry Federal (NCT-1) Well No. 26:

triple completion, tubingless, downhole commingled, to produce oil from the Blinebry, Drinkard, and Tubb formations through one string of casing with all or part of the commingled gas production being produced through a second string of casing.

C. H. Lockhart Federal (NCT-1) Well No. 5:

triple completion, downhole commingled, to produce oil from the Blinebry, Drinkard, and Tubb formations through one string of casing.

(5) That each of the zones to be commingled in the subject wells is capable of low marginal production only.

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

(7) That the reservoir characteristics of each of the subject zones are such that underground waste would not be caused by the proposed commingling provided that the wells are not shut-in for an extended period.

(8) That in order to afford the Commission the opportunity to assess the potential for waste and expeditiously to order appropriate remedial action, the operator should notify the Hobbs District Office of the Commission any time any of the subject wells are shut-in for 7 consecutive days.



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(9) That upon completion of each of the subject wells, the applicant should consult with the Supervisor of the Commission's Hobbs district office in order to determine a formula for the allocation of the commingled production to each of the commingled zones in the subject wells.

(10) That each of the subject wells should continue to be governed by all Commission Rules and Regulations governing multiple completions to the extent that said Rules and Regulations are not inconsistent with this order.

IT IS THEREFORE ORDERED:

(1) That the applicant, Texaco, Inc., is hereby authorized to complete its A. H. Blinebry Federal (NCT-1) Well No. 23, located in Unit C of Section 29, its A. H. Blinebry Federal (NCT-1) Well No. 26, located in Unit B of Section 29, and its C. H. Lockhart Federal (NCT-1) Well No. 5, located in Unit C of Section 18, all in Township 22 South, Range 38 East, NMPM, Lea County, New Mexico, as multiple completions as follows:

A. H. Blinebry Federal (NCT-1) Well No. 23:

triple completion, tubingless, downhole commingled, to produce oil from the Blinebry, Drinkard, and Tubb formations through one string of 2 7/8-inch casing with all or part of the commingled gas production being produced through a second string of 2 7/8-inch casing.

A. H. Blinebry Federal (NCT-1) Well No. 26:

triple completion, tubingless, downhole commingled, to produce oil from the Drinkard, Blinebry and Tubb formations through one string of 2 7/8-inch casing with all or part of the commingled gas production being produced through a second string of casing.

C. H. Lockhart Federal (NCT-1) Well No. 5:

triple completion, downhole commingled, to produce oil from the Blinebry, Drinkard, and Tubb formations through one string of 2 3/8-inch casing.

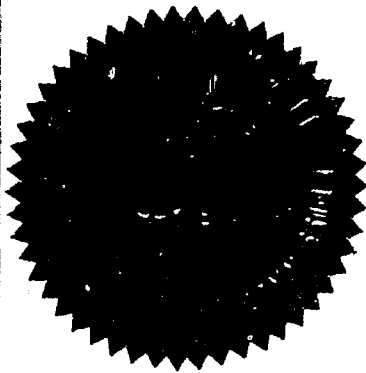
(2) That upon completion of each of the subject wells in the manner described above, the operator shall immediately consult with the supervisor of the Commission District Office at Hobbs to determine a formula for allocation of production to each of the commingled zones in such well.

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(3) That the operator of the subject wells shall immediately notify the Commission's Hobbs District Office any time any of such wells have been shut-in for 7 consecutive days.

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

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



STATE OF NEW MEXICO  
OIL CONSERVATION COMMISSION

*I. R. Trujillo*  
I. R. TRUJILLO, Chairman

ALEX J. ARMIJO, Member

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

S E A L

dr/

Docket No. 21-74

Dockets Nos. 22-74 and 24-74 are tentatively set for hearing on August 7 and August 21. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: EXAMINER HEARING - WEDNESDAY - JULY 24, 1974

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

The following cases will be heard before Richard L. Stamets, Examiner, or Daniel S. Nutter, Alternate Examiner:

CASE 4954: (Reopened)

In the matter of Case 4954 being reopened pursuant to the provisions of Order No. R-4555, which order established temporary special pool rules for the South Lindrith Gallup-Dakota Oil Pool, Rio Arriba County, New Mexico, including a provision for 160-acre spacing. All interested parties may appear and show cause why said pool should not be developed on 40-acre spacing.

CASE 5277: Application of Pierce & Dehlinger for the amendment of Order No. R-4560, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an extension of time in which to commence the drilling of the third well covered by Order No. R-4560, to be drilled in the NE/4 of Section 24, Township 9 South, Range 33 East, Vada-Pennsylvanian Pool, Lea County, New Mexico. Applicant further seeks the establishment of an administrative procedure for additional extension of time in which to comply with the drilling schedule as set forth in the subject order. Applicant further seeks the amendment of Orders Nos. 4 and 5 of Order No. R-4560 to provide certain changes in the time schedules outlined therein for the furnishing of estimated well costs and the payment of proportionate shares of well costs by all parties.

CASE 5278: Application of Texaco Inc. for downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Blinebry, Drinkard, and Tubb production in the wellbores of its A. H. Blinebry Federal Wells Nos. 23 and 26, located in Units C and B, respectively, of Section 29, and its C. H. Lockhart Federal Well No. 5, located in Unit C of Section 18, all in Township 22 South, Range 38 East, Lea County, New Mexico.

CASE 5279: Application of Tom L. Ingram for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Delaware Sand in the perforated interval from 5012 feet to 5033 feet in his State "O" Well No. 2 located in Unit E of Section 7, Township 24 South, Range 33 East, Triple X-Delaware Pool, Lea County, New Mexico.

CASE 5280: Application of Coastal States Gas Producing Company for an unorthodox location and the amendment of Order No. R-4715, Lea County, New Mexico. Applicant, in the above-styled cause, seeks, as an exception to Order No. R-2746, approval for the unorthodox oil well location for its

(Case 5280 continued from Page 1)

McGuffin Well No. 3 to be drilled 660 feet from the North line and 1980 feet from the West line of Section 29, Township 9 South, Range 33 East, Flying "M" San Andres Pool, Lea County, New Mexico, the N/2 NW/4 of said Section 29 to be dedicated to the well. Applicant further seeks the amendment of Order No. R-4715 which dedicated the W/2 NW/4 of Section 29 to its McGuffin Well No. 2 located 1980 feet from the North line and 660 feet from the West line of said Section 29. Applicant proposes that the N/2 NW/4 of said Section 29 be dedicated jointly to said McGuffin Well No. 2 and to its McGuffin Well No. 1 located in Unit F of said Section 29.

CASE 5281: Application of Morris R. Antweil for an extension of time, Order No. R-4772, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks a 90-day extension of the July 15 deadline for the commencement of drilling operations in the S/2 of Section 17, Township 22 South, Range 27 East, South Carlsbad Field, Eddy County, New Mexico, which lands were pooled to form a standard 320-acre gas spacing and proration unit by Order No. R-4772.

CASE 5282: Application of Union Texas Petroleum Corporation for downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Jalmat and Langlie-Mattix production in certain of its wells in the Langlie-Jal Unit Area, currently being waterflooded under authority of Commission Order No. R-4051.

CASE 4969: (Reopened)

In the matter of Case No. 4969 being reopened pursuant to the provisions of Order No. R-4557-A, which order continued the special depth bracket allowable for the Tocito Dome-Pennsylvanian "D" Pool, San Juan County, New Mexico, for an additional six months. All interested parties may appear and show cause why said special depth bracket allowable should not be rescinded.

CASE 5283: Application of Belco Petroleum Corporation for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in formations of Pennsylvanian age or older underlying the W/2 of Section 5, Township 22 South, Range 27 East, Eddy County, New Mexico, to be dedicated to a well to be drilled at a standard location for said unit in Unit F of said Section 5. Also to be considered will be the cost of drilling and completing said well and the allocation of such costs, as well as actual operating costs and charges for supervision. Also to be considered is the designation of applicant as operator of the well and a charge for risk involved in drilling said well.

CASE 5284: Application of Champlin Petroleum Company for a dual completion, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion (conventional) of its Nix-Yates Well No. 1 located in Unit G of Section 2, Township 22 South, Range 27 East, Eddy County, New Mexico, in such a manner as to produce gas from the Morrow formation through tubing and from the Wolfcamp formation through the casing-tubing annulus.

CASE 5152: (Reopened)

In the matter of Case No. 5152 being reopened pursuant to the provisions of Order No. R-4713, which order established a special depth bracket allowable for the Media-Entrada Oil Pool, Sandoval County, New Mexico. All interested parties may appear and show cause why said special depth bracket allowable should not be rescinded.

CASE 5285: Application of Texas Pacific Oil Co. for an unorthodox location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox gas well location of its Phantom Draw Unit Well No. 1 to be located at a point 800 feet from the South line and 1000 feet from the West line of Section 20, Township 26 South, Range 31 East, Eddy County, New Mexico, the W/2 of said Section 20 to be dedicated to the well.

CASE 5286: Application of Texaco Inc. for a Special Allowable, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for an injection response allowable increase for its Vacuum Grayburg-San Andres Unit Pressure Maintenance Project, Lea County, New Mexico. Applicant seeks an additional 2320 barrels of oil per day to be added incrementally to the current 4640 barrel per day allowable as injection response occurs. Applicant further seeks the establishment of an allowable of up to 240 barrels per day for lease line wells which have demonstrated a substantial response to water injection.

5278

is owner operator of  
Teraco Seeking to ~~produce from~~ commingle  
production from ~~Blindery Drinkard~~  
and ~~Hubb Pools~~ in ~~Teraco~~  
the (wells) (describe)  
Lee Co NM

That ~~each of~~ said wells are currently  
completed in the \_\_\_\_\_

zones respectively.

That the prod zones in each  
of the wells is low marg.

Applicant proposes to perf the  
additional Tabb, Drinkard, or Blby  
zone in ~~each~~ of said wells and  
to produce three zone commingle  
common well bore.

Determine % production within  
30 days of date first commingle  
prod by test approved Hobbs  
dist super.

commingling recover more oil,  
good conservation and all regular  
stuff

Approve

Docket No. 21-74

Dockets Nos. 22-74 and 24-74 are tentatively set for hearing on August 7 and August 21. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: EXAMINER HEARING - WEDNESDAY -- JULY 24, 1974

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

The following cases will be heard before Richard L. Stamets, Examiner, or Daniel S. Nutter, Alternate Examiner:

CASE 4954: (Reopened)

In the matter of Case 4954 being reopened pursuant to the provisions of Order No. R-4555, which order established temporary special pool rules for the South Lindrith Gallup-Dakota Oil Pool, Rio Arriba County, New Mexico, including a provision for 160-acre spacing. All interested parties may appear and show cause why said pool should not be developed on 40-acre spacing.

CASE 5277: Application of Pierce & Dehlinger for the amendment of Order No. R-4560, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an extension of time in which to commence the drilling of the third well covered by Order No. R-4560, to be drilled in the NE/4 of Section 24, Township 9 South, Range 33 East, Vada-Pennsylvanian Pool, Lea County, New Mexico. Applicant further seeks the establishment of an administrative procedure for additional extension of time in which to comply with the drilling schedule as set forth in the subject order. Applicant further seeks the amendment of Orders Nos. 4 and 5 of Order No. R-4560 to provide certain changes in the time schedules outlined therein for the furnishing of estimated well costs and the payment of proportionate shares of well costs by all parties.

CASE 5278: Application of Texaco Inc. for downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Blinebry, Drinkard, and Tubb production in the wellbores of its A. H. Blinebry Federal Wells Nos. 23 and 26, located in Units C and B, respectively, of Section 29, and its C. H. Lockhart Federal Well No. 5, located in Unit C of Section 18, all in Township 22 South, Range 38 East, Lea County, New Mexico.

CASE 5279: Application of Tom L. Ingram for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Delaware Sand in the perforated interval from 5012 feet to 5033 feet in his State "O" Well No. 2 located in Unit E of Section 7, Township 24 South, Range 33 East, Triple X-Delaware Pool, Lea County, New Mexico.

CASE 5280: Application of Coastal States Gas Producing Company for an unorthodox location and the amendment of Order No. R-4715, Lea County, New Mexico. Applicant, in the above-styled cause, seeks, as an exception to Order No. R-2746, approval for the unorthodox oil well location for its

(Case 5280 continued from Page 1)

McGuffin Well No. 3 to be drilled 660 feet from the North line and 1980 feet from the West line of Section 29, Township 9 South, Range 33 East, Flying "M" San Andres Pool, Lea County, New Mexico, the N/2 NW/4 of said Section 29 to be dedicated to the well. Applicant further seeks the amendment of Order No. R-4715 which dedicated the W/2 NW/4 of Section 29 to its McGuffin Well No. 2 located 1980 feet from the North line and 660 feet from the West line of said Section 29. Applicant proposes that the N/2 NW/4 of said Section 29 be dedicated jointly to said McGuffin Well No. 2 and to its McGuffin Well No. 1 located in Unit F of said Section 29.

CASE 5281: Application of Morris R. Antweil for an extension of time, Order No. R-4772, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks a 90-day extension of the July 15 deadline for the commencement of drilling operations in the S/2 of Section 17, Township 22 South, Range 27 East, South Carlsbad Field, Eddy County, New Mexico, which lands were pooled to form a standard 320-acre gas spacing and proration unit by Order No. R-4772.

CASE 5282: Application of Union Texas Petroleum Corporation for downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Jalmat and Langlie-Mattix production in certain of its wells in the Langlie-Jal Unit Area, currently being waterflooded under authority of Commission Order No. R-4051.

CASE 4969: (Reopened)

In the matter of Case No. 4969 being reopened pursuant to the provisions of Order No. R-4557-A, which order continued the special depth bracket allowable for the Tocito Dome-Pennsylvanian "D" Pool, San Juan County, New Mexico, for an additional six months. All interested parties may appear and show cause why said special depth bracket allowable should not be rescinded.

CASE 5283: Application of Belco Petroleum Corporation for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in formations of Pennsylvanian age or older underlying the W/2 of Section 5, Township 22 South, Range 27 East, Eddy County, New Mexico, to be dedicated to a well to be drilled at a standard location for said unit in Unit F of said Section 5. Also to be considered will be the cost of drilling and completing said well and the allocation of such costs, as well as actual operating costs and charges for supervision. Also to be considered is the designation of applicant as operator of the well and a charge for risk involved in drilling said well.



CASE 5284: Application of Champlin Petroleum Company for a dual completion, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion (conventional) of its Nix-Yates Well No. 1 located in Unit G of Section 2, Township 22 South, Range 27 East, Eddy County, New Mexico, in such a manner as to produce gas from the Morrow formation through tubing and from the Wolfcamp formation through the casing-tubing annulus.

CASE 5152: (Reopened)

In the matter of Case No. 5152 being reopened pursuant to the provisions of Order No. R-4713, which order established a special depth bracket allowable for the Media-Entrada Oil Pool, Sandoval County, New Mexico. All interested parties may appear and show cause why said special depth bracket allowable should not be rescinded.

CASE 5285: Application of Texas Pacific Oil Co. for an unorthodox location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox gas well location of its Phantom Draw Unit Well No. 1 to be located at a point 800 feet from the South line and 1000 feet from the West line of Section 20, Township 26 South, Range 31 East, Eddy County, New Mexico, the W/2 of said Section 20 to be dedicated to the well.

CASE 5286: Application of Texaco Inc. for a Special Allowable, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for an injection response allowable increase for its Vacuum Grayburg-San Andres Unit Pressure Maintenance Project, Lea County, New Mexico. Applicant seeks an additional 2320 barrels of oil per day to be added incrementally to the current 4640 barrel per day allowable as injection response occurs. Applicant further seeks the establishment of an allowable of up to 240 barrels per day for lease line wells which have demonstrated a substantial response to water injection.

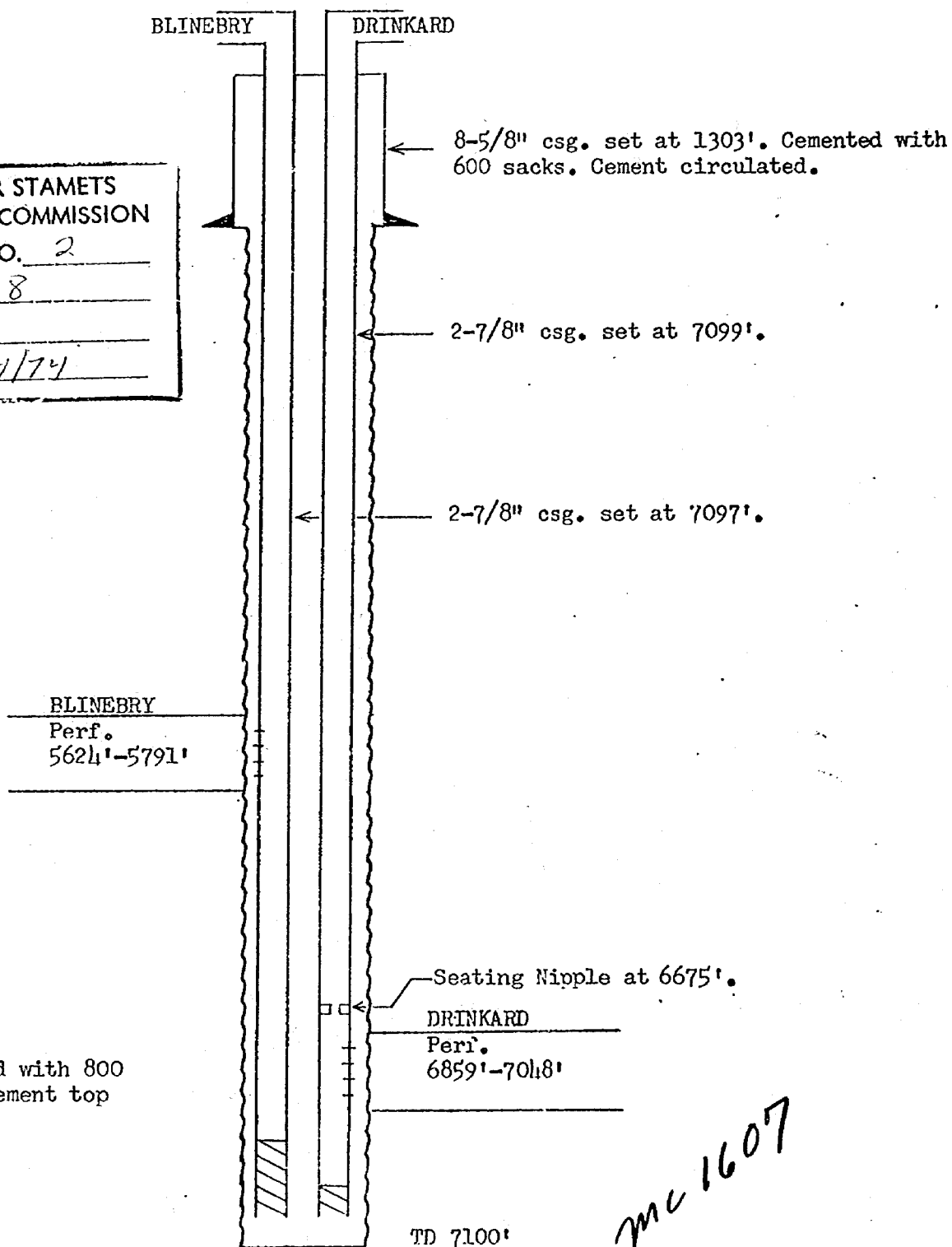
BEFORE EXAMINER STAMETS  
OIL CONSERVATION COMMISSION

EXHIBIT NO. 2

CASE NO. 5278

Tested by \_\_\_\_\_

Hearing Date 7/27/74

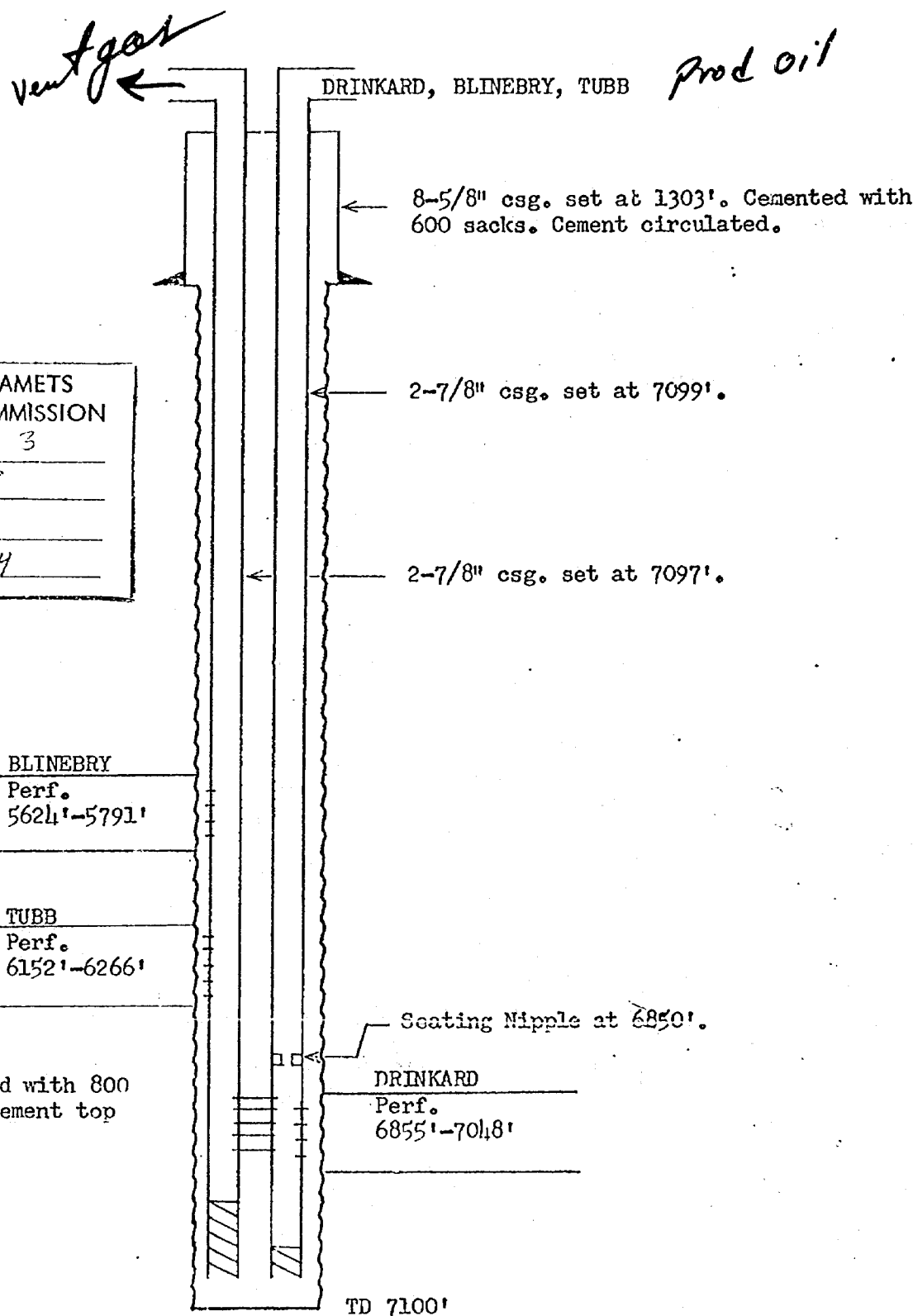


2-7/8" csg. cemented with 800 sacks. Calculated cement top at 2850'.

*mc 1607*

Present Completion  
TEXACO INC.  
A.H. BLINEBRY (NCT-1) NO. 23  
DRINKARD AND BLINEBRY POOLS  
LEA COUNTY, NEW MEXICO

BEFORE EXAMINER STAMETS  
OIL CONSERVATION COMMISSION  
Texaco EXHIBIT NO. 3  
CASE NO. 5278  
Set by \_\_\_\_\_  
Hearing Date 7/27/74



2-7/8" csg. cemented with 800 sacks. Calculated cement top at 2850'.

Proposed Completion  
TEXACO INC.  
A.H. BLINEBRY (NCT-1) NO. 23  
DRINKARD, BLINEBRY AND TUBB POOLS  
LEA COUNTY, NEW MEXICO

# DATA SHEET FOR WELLBORE COMMINGLING

Operator: TEXACO INC.

Address: P. O. Box 728 - Hobbs, New Mexico 88240

Lease and Well No.: A. H. Blinebry Federal (NCT-1) No. 23

Location: 660' FNL & 1980' FWL, Section 29, Township 22 South, Range 38 East

## WELL DATA

	Upper Pool	<sup>New</sup> Middle Pool	Lower Pool
Name of Pool	Blinebry	Tubb (Proposed)	Drinkard
Producing Method	Pumping	-	Pumping
BHP	350-400 (Est.)	500 (Est.)	500 (Est.)
Type Crude	Sweet	Sweet	Sweet
Gravity	38.0	38.8 (Est.)	38.7
GOR Limit	4,000	2,000	6,000
Completion Interval	5624'-5791'	6152'-6266'	6855'-7048'
Current Test Date	5-6-74	-	5-7-74
Oil	1	20 (Est.)	2
Water	0	0 (Est.)	2
GOR	20,000	5,800 (Est.)	22,500
Selling Price of Crude - \$/BBL.	5.27	5.27	5.27
Daily Income - \$/Day	5.27	105.40 (Est.)	10.54

## COMMINGLED DATA:

Gravity of Commingled Crude 38.4

Selling Price of Commingled Crude - \$/BBL. 5.27

Daily Income - \$/Day ~~121~~ 121

Net (Gain) (~~Loss~~) from Wellbore Commingling - \$/Day ~~105~~ 105 (Production increase of <sup>20</sup> ~~30~~ BOPD) based on current producing rates.

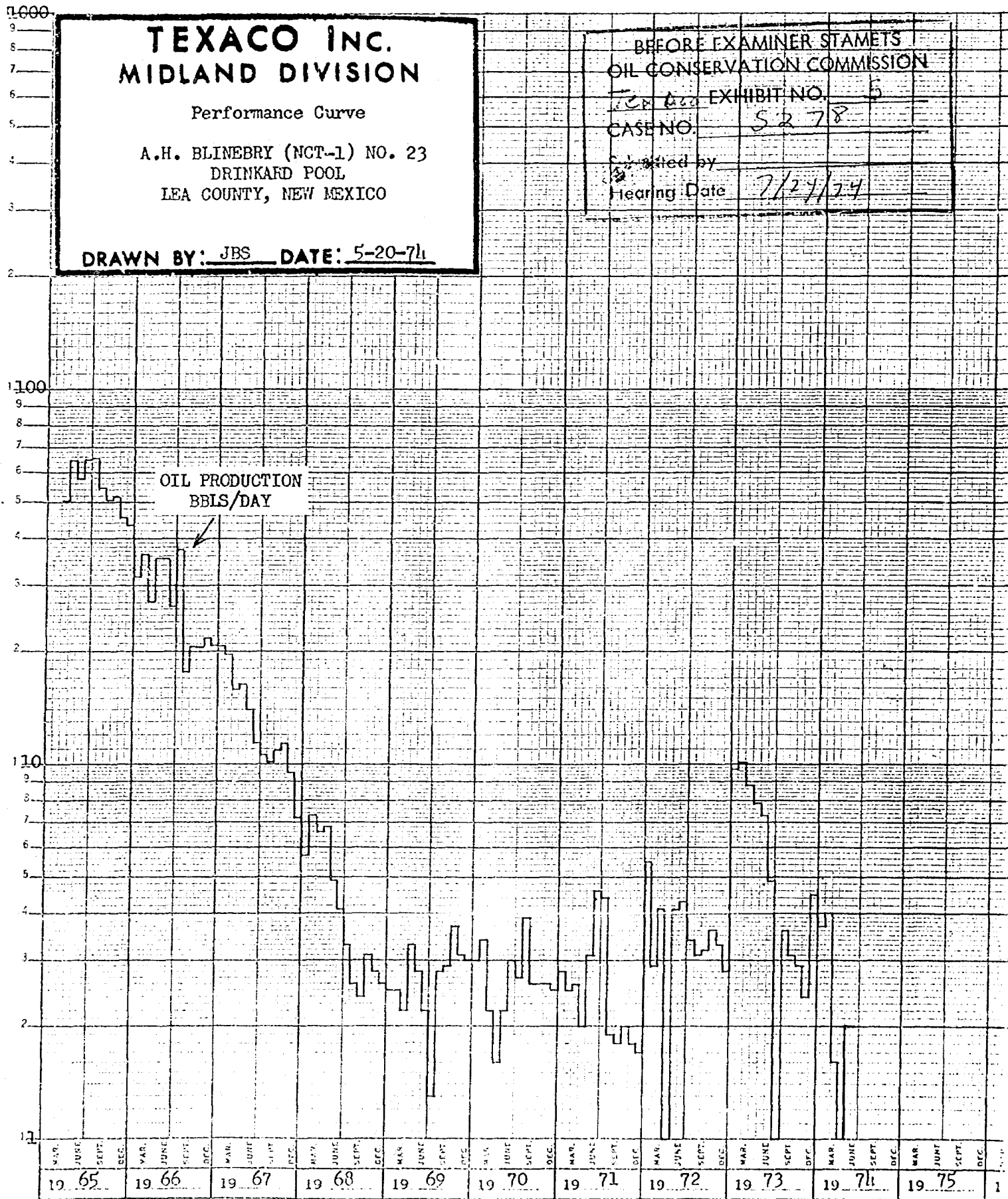
# **TEXACO INC.** **MIDLAND DIVISION**

Performance Curve

A.H. BLINEBRY (NCT-1) NO. 23  
DRINKARD POOL  
LEA COUNTY, NEW MEXICO

DRAWN BY: JBS DATE: 5-20-74

BEFORE EXAMINER STAMETS  
OIL CONSERVATION COMMISSION  
EXHIBIT NO. 5  
CASE NO. 5278  
Submitted by  
Hearing Date 7/27/74



# **TEXACO INC.** **MIDLAND DIVISION**

Performance Curve

A.H. BLINEBRY (NCT-1) NO. 23  
BLINEBRY POOL  
LEA COUNTY, NEW MEXICO

**DRAWN BY:** JBS **DATE:** 5-20-74

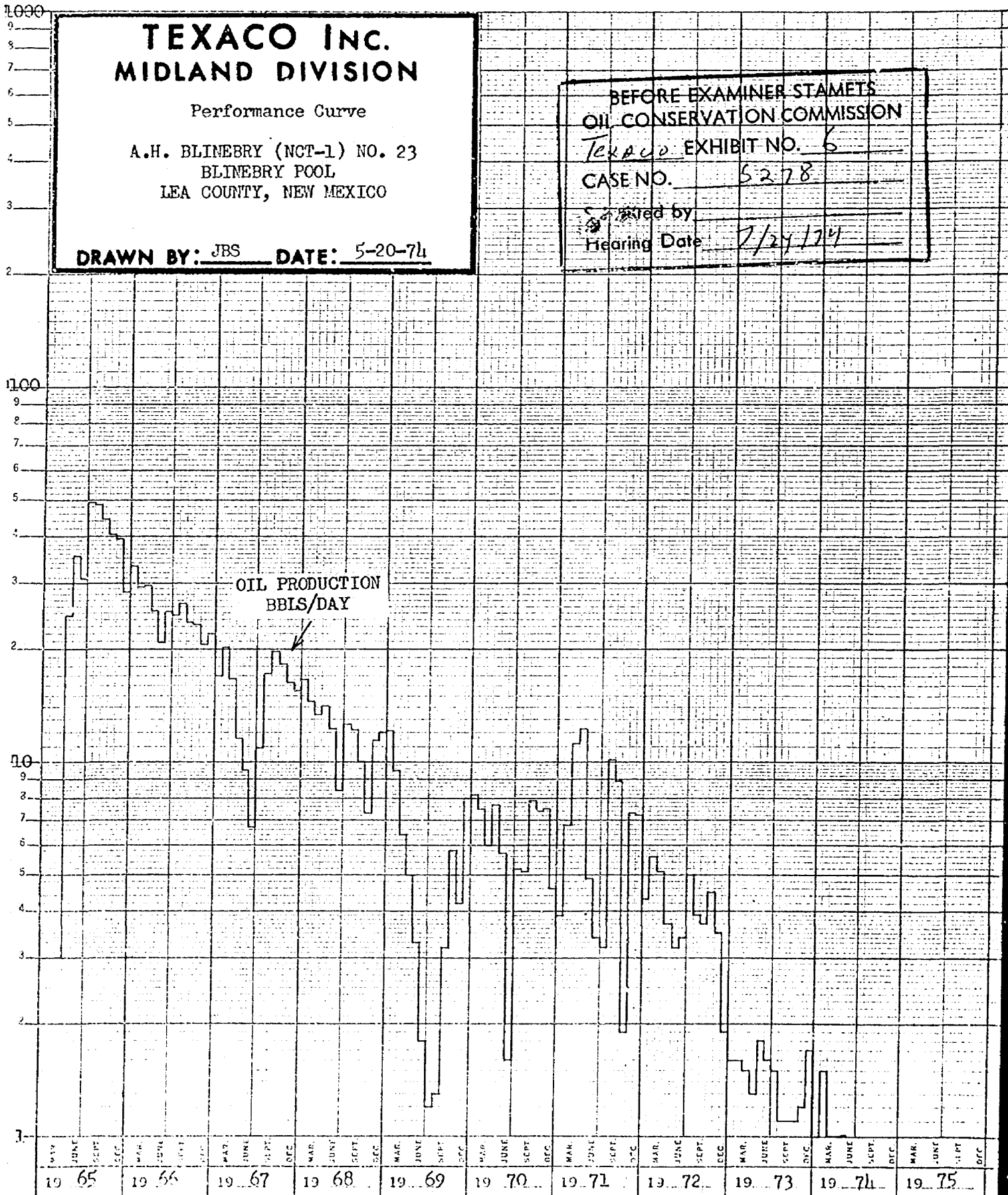
BEFORE EXAMINER STAMETS  
OIL CONSERVATION COMMISSION

Texaco EXHIBIT NO. 6

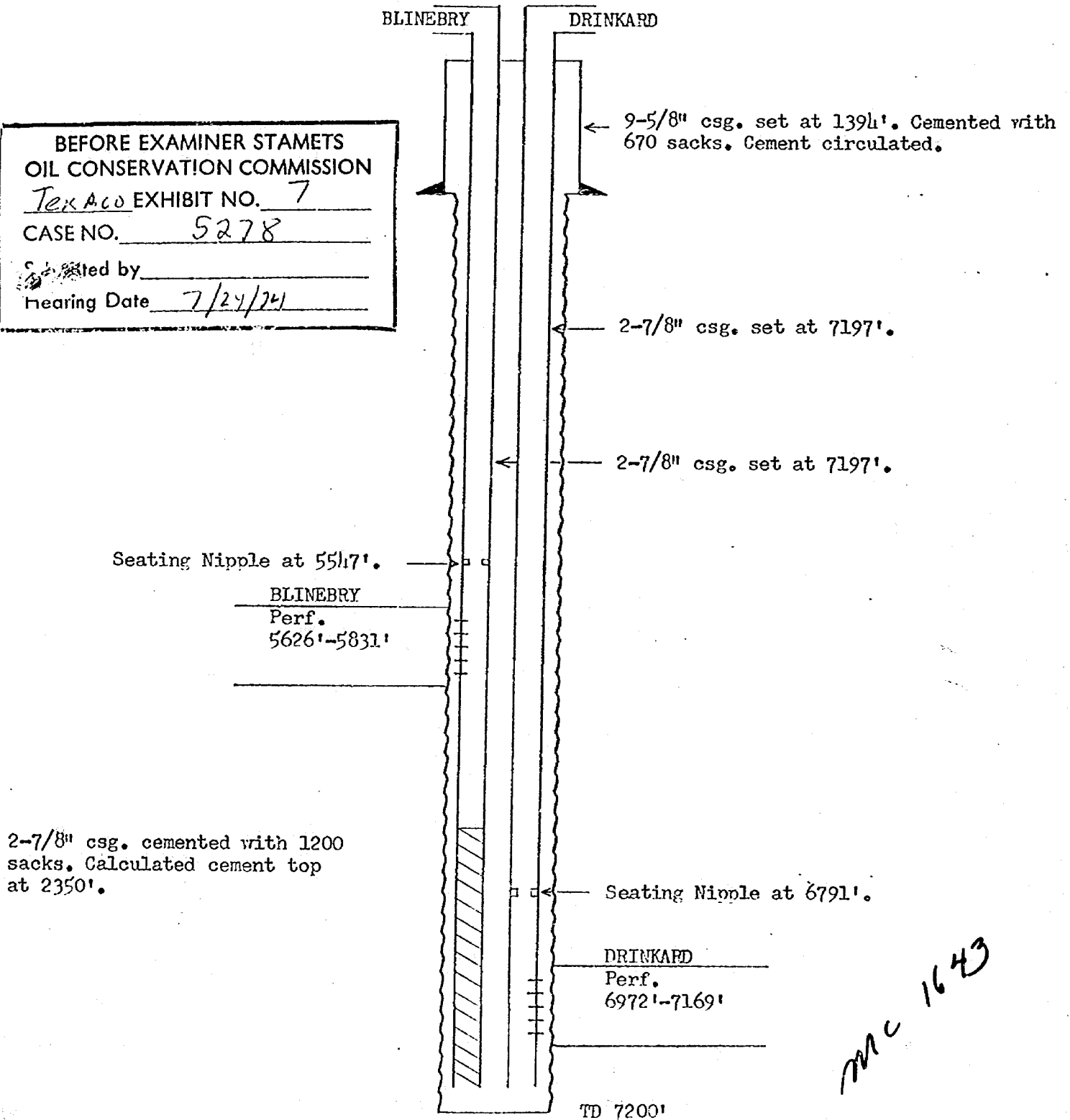
CASE NO. 5278

Submitted by

Hearing Date 7/24/74



BEFORE EXAMINER STAMETS  
OIL CONSERVATION COMMISSION  
*Texaco* EXHIBIT NO. 7  
CASE NO. 5278  
Set by \_\_\_\_\_  
Hearing Date 7/24/24



Present Completion  
TEXACO INC.  
A.H. BLINEBRY (NCT-1) NO. 26  
DRINKARD AND BLINEBRY POOLS  
LEA COUNTY, NEW MEXICO

*mc 1643*

BEFORE EXAMINER STAMETS  
OIL CONSERVATION COMMISSION

TEXAS EXHIBIT NO. 8

CASE NO. 5278

Submitted by \_\_\_\_\_

Hearing Date 4/24/78

*Gas*

DRINKARD, BLINEBRY, TUBB

*oil*

← 9-5/8" csg. set at 1394'. Cemented with 670 sacks. Cement circulated.

← 2-7/8" csg. set at 7197'.

← 2-7/8" csg. set at 7197'.

BLINEBRY  
Perf.  
5626'-5831'

TUBB  
Perf.  
6236'-6347'

2-7/8" csg. cemented with 1200 sacks. Calculated cement top at 2350'.

← Seating Nipple at 6980'.

DRINKARD  
Perf.  
6970'-7169'

TD 7200'

Proposed Completion  
TEXACO INC.

A.H. BLINEBRY (NCT-1) NO. 26  
DRINKARD, BLINEBRY AND TUBB POOLS  
IEA COUNTY, NEW MEXICO



# DATA SHEET FOR WELLBORE COMMINGLING

Operator: TEXACO INC.

Address: P. O. Box 728 - Hobbs, New Mexico 88240

Lease and Well No.: A. H. Blinebry Federal (NCT-1) No. 26

Location: 1980' FEL and 660' FNL of Section 29, Township 22 South, Range 38 East

## WELL DATA

	Upper Pool	Middle Pool	Lower Pool
Name of Pool	Blinebry	Tubb (Proposed)	Drinkard
Producing Method	Pump	--	Pump
BHP	350-400 (Est.)	500 (Est.)	500 (Est.)
Type Crude	Sweet	Sweet	Sweet
Gravity	38.0	38.8 (Est.)	38.7
GOR Limit	4,000	2,000	6,000
Completion Interval	5626'-5831'	6236'-6347' (Proposed)	6972'-7169'
Current Test Date	5-10-74	--	5-12-74
Oil	1	20 <del>30</del> (Est.)	2
Water	0	0 (Est.)	0
GOR	7,000	4,000 (Est.)	15,000
Selling Price of Crude - \$/BBL.	5.27	5.27	5.27
Daily Income - \$/Day	5.27	--	10.54

## COMMINGLED DATA:

Gravity of Commingled Crude 38.4

Selling Price of Commingled Crude - \$/BBL. 5.27

Daily Income - \$/Day 121.21

Net (Gain) ~~Loss~~ from Wellbore Commingling - \$/Day 105.40 (Production Increase of 20 BOPD)  
based on current producing rates.

# **TEXACO INC.** **MIDLAND DIVISION**

Performance Curve

A.H. BLINEBRY (NCT-1) NO. 26  
BLINEBRY POOL  
IEA COUNTY, NEW MEXICO

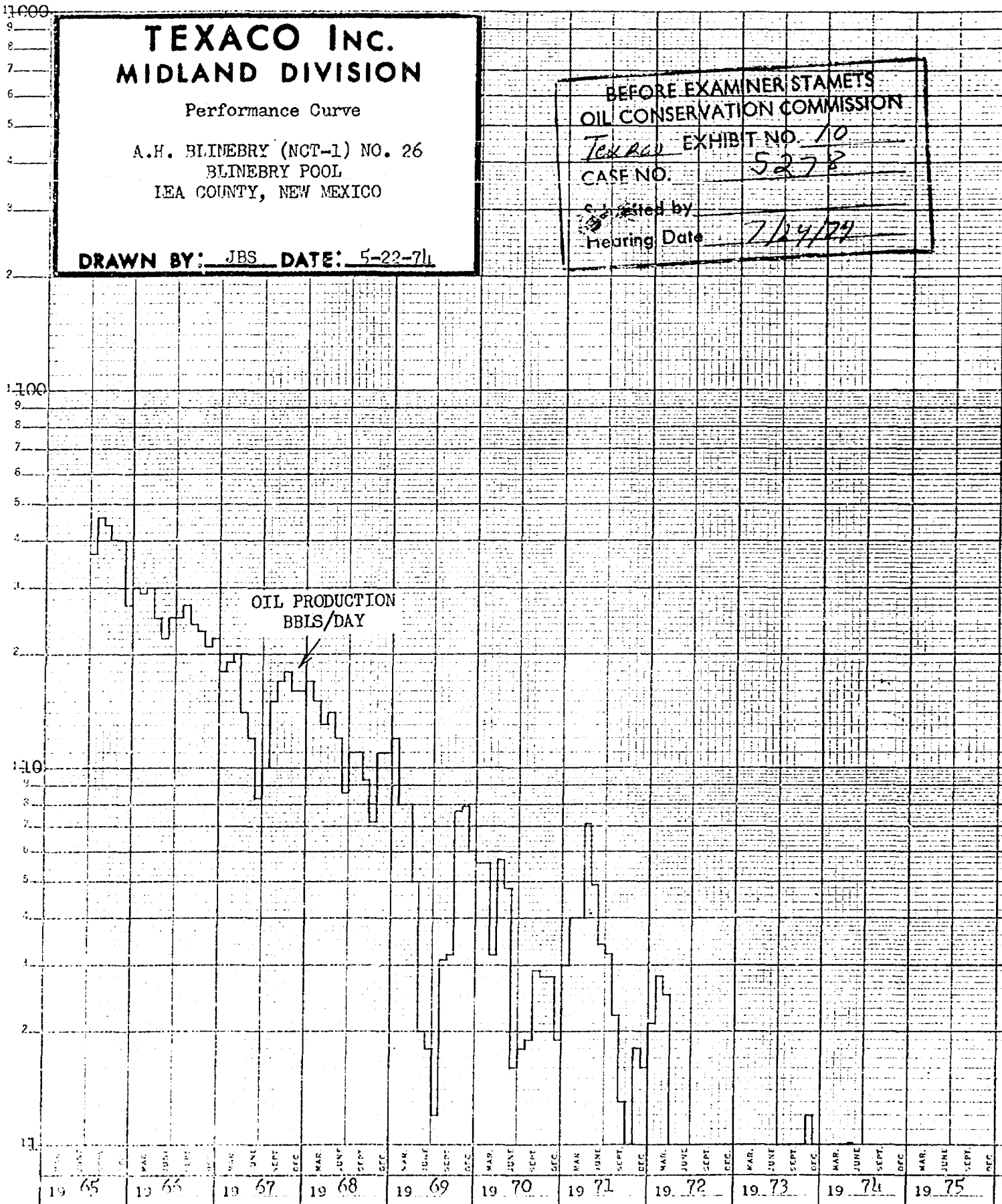
**DRAWN BY:** JBS **DATE:** 5-22-71

BEFORE EXAMINER STAMETS  
OIL CONSERVATION COMMISSION

TEXACO EXHIBIT NO. 10

CASE NO. 5278

Presented by  
Hearing Date 7/24/79



# **TEXACO INC.** **MIDLAND DIVISION**

Performance Curve

A.H. BLINEBRY (NCT-1) NO. 26  
DRINKARD POOL  
LEA COUNTY, NEW MEXICO

DRAWN BY: JES DATE: 5-22-71

BEFORE EXAMINER STAMETS  
OIL CONSERVATION COMMISSION

EXHIBIT NO. 11

CASE NO. S278

Presented by

Hearing Date 7/29/74

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OIL PRODUCTION  
BBLs/DAY

19 65

19 66

19 67

19 68

19 69

19 70

19 71

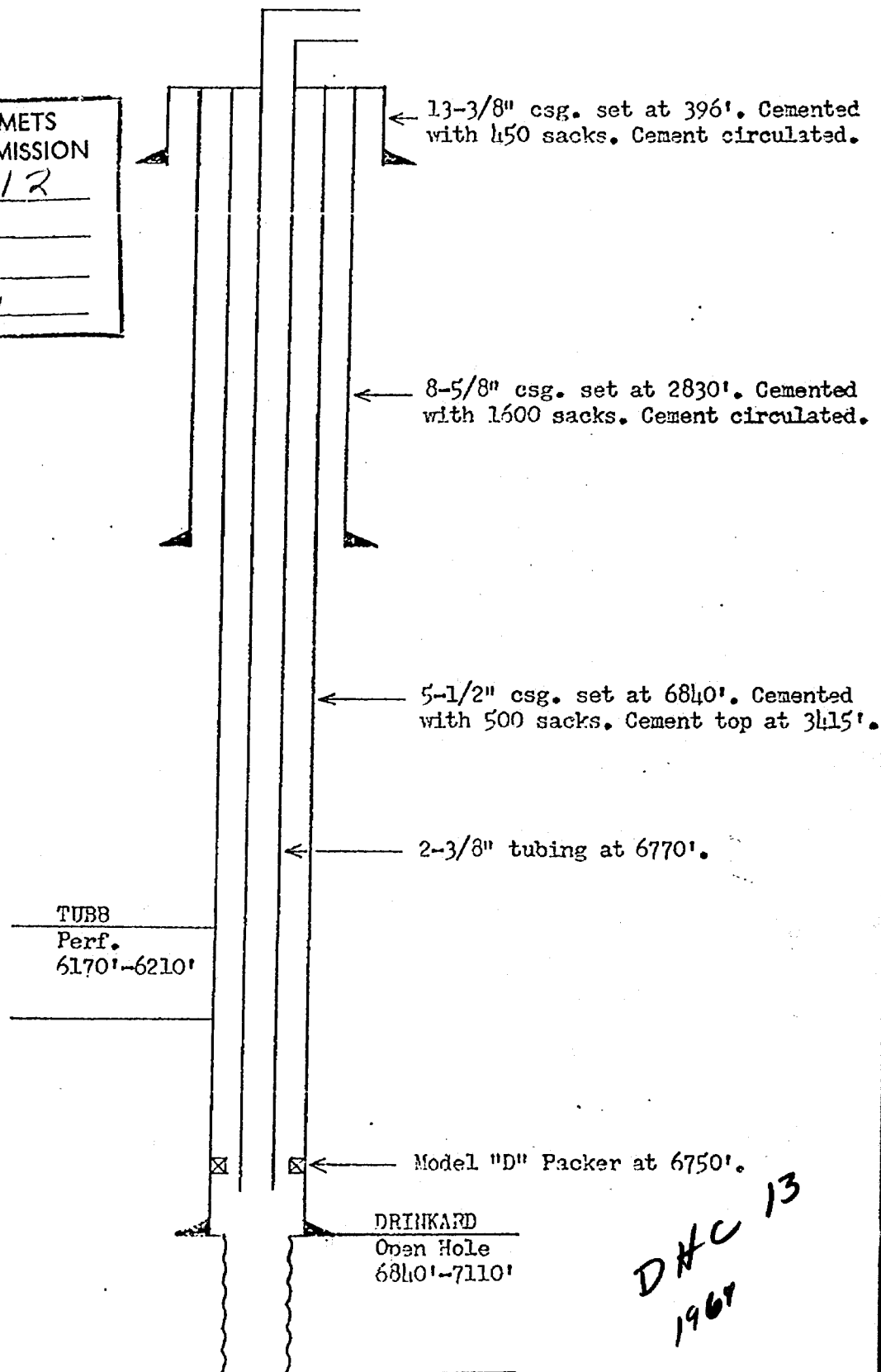
19 72

19 73

19 74

19 75

BEFORE EXAMINER STAMETS  
OIL CONSERVATION COMMISSION  
Texaco EXHIBIT NO. 12  
CASE NO. 5278  
Settled by \_\_\_\_\_  
Hearing Date 7/24/74



Present Completion  
TEXACO INC.  
C.H. LOCKHART (NCT-1) NO. 5  
TUBB AND DRINKARD POOLS  
LEA COUNTY, NEW MEXICO

DHC 13  
1967

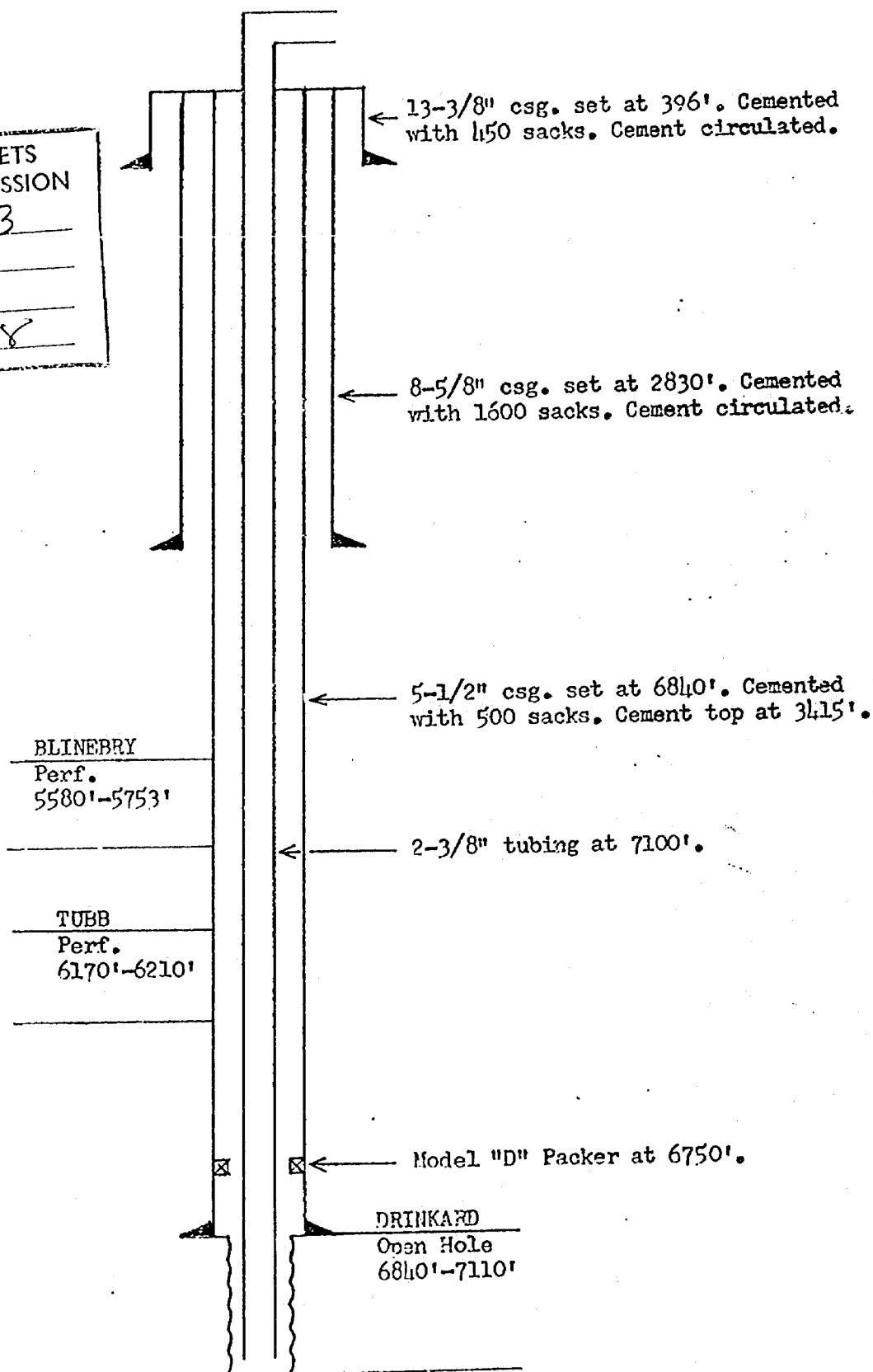
BEFORE EXAMINER STAMETS  
OIL CONSERVATION COMMISSION

TEXACO EXHIBIT NO. 13

CASE NO. 5278

Submitted by \_\_\_\_\_

Hearing Date 7/24/78



Proposed Completion  
TEXACO INC.

G.H. LOCKHART (NCT-1) NO. 5  
BLINEBRY, TUBB AND DRINKARD POOLS  
LEA COUNTY, NEW MEXICO

DATA SHEET FOR WELLBORE COMMINGLING

Operator: TEXACO INC.

Address: P. O. Box 728 - Hobbs, New Mexico 88240

Lease and Well No: C. H. Lockhart Federal (NCT-1) No. 5

Location: Unit C; 1979 Feet from the West Line and  
660 Feet from North Line of Section 18;  
Township 22-S, Range 38-E; Lea County.

WELL DATA

	<u>Upper Pool</u>	<u>Lower Pool</u>
Name of Pool	<u>Blinebry (Proposed)</u>	<u>Tubb/Drinkard (Commingled)</u>
Producing Method	<u>Pump</u>	<u>Pump</u>
BHP	<u>400 (Est.)</u>	<u>500 (Est.)</u>
Type Crude	<u>Sweet</u>	<u>Sweet</u>
Gravity	<u>38.0 (Est.)</u>	<u>38.4</u>
GOR Limit	<u>4,000</u>	<u>2,000/6,000</u>
Completion Interval	<u>5580'-5753' (Proposed)</u>	<u>6170'-6210'/6840'-7110'</u>
Current Test Date	<u>--</u>	<u>4-17-74</u>
Oil	<u>15 Est.</u>	<u>6</u>
Water	<u>0 Est.</u>	<u>0</u>
GOR	<u>3000 Est.</u>	<u>26,000</u>
Selling Price of Crude-\$/BBL.	<u>5.27</u>	<u>5.27</u>
Daily Income - \$/Day	<u>--</u>	<u>31.62</u>

COMMINGLED DATA:

Gravity of Commingled Crude 38.2  
Selling Price of Commingled Crude - \$/BBL. 5.27  
Daily Income - \$/Day 110.67

Net (Gain) ~~xxxxx~~ From Wellbore Commingling - \$/Day 79.05 (Production Increase of  
based on current producing rates. 15 BOPD)

# **TEXACO INC.** **MIDLAND DIVISION**

Performance curve

C.H. LOCKHART (NCT-1) NO. 5  
TUBB POOL  
LEA COUNTY, NEW MEXICO

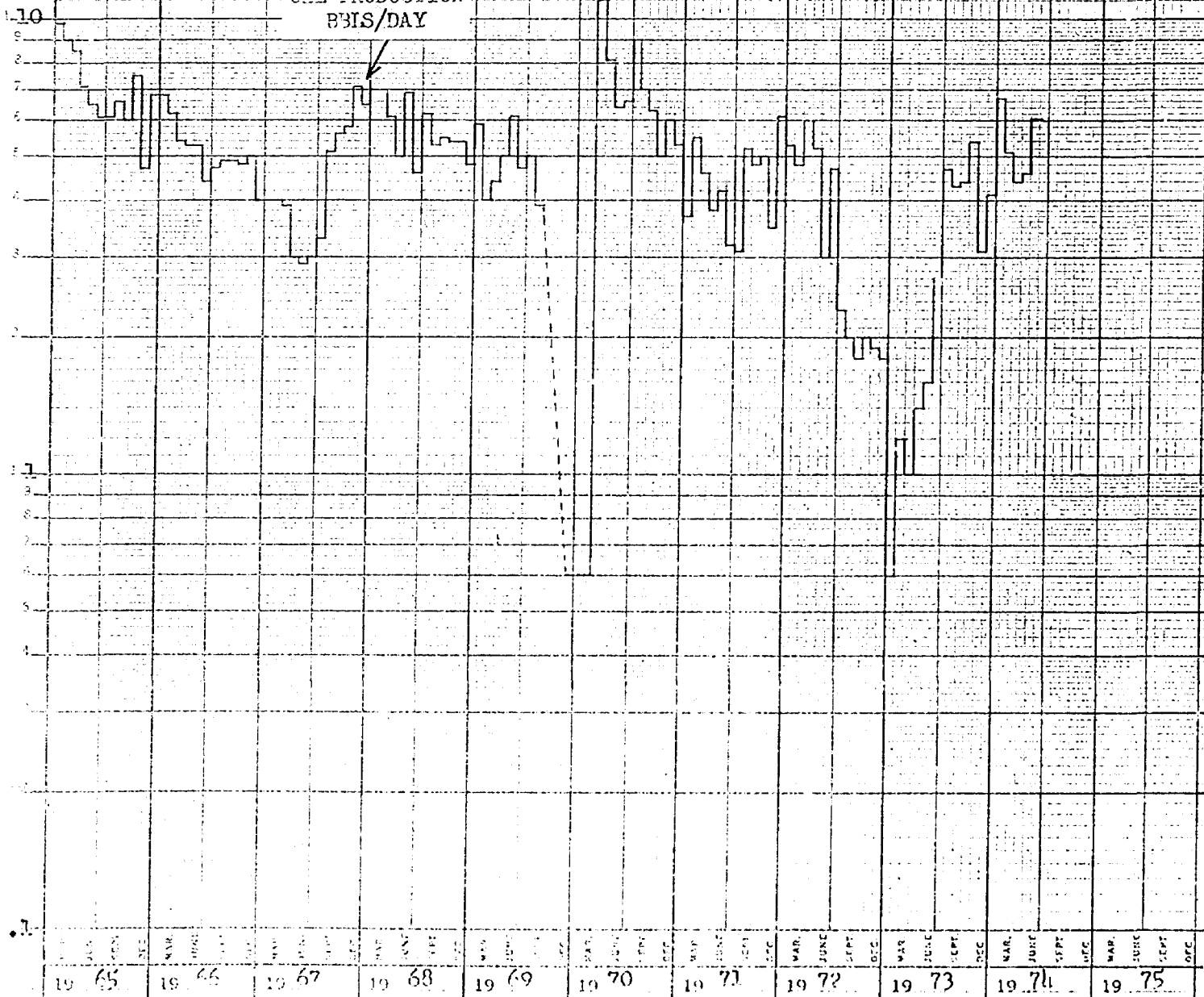
DRAWN BY: JBS DATE: 5-21-71

BEFORE EXAMINER STAMETS  
OIL CONSERVATION COMMISSION

EXHIBIT NO. 15  
CASE NO. 5228

Submitted by  
Hearing Date 7/24/74

OIL PRODUCTION  
BBL/DAY



1100  
9  
8  
7  
6  
5  
4  
3

C.H. LOCKHART (NCT-1) NO. 5  
DRINKARD POOL  
LEA COUNTY, NEW MEXICO

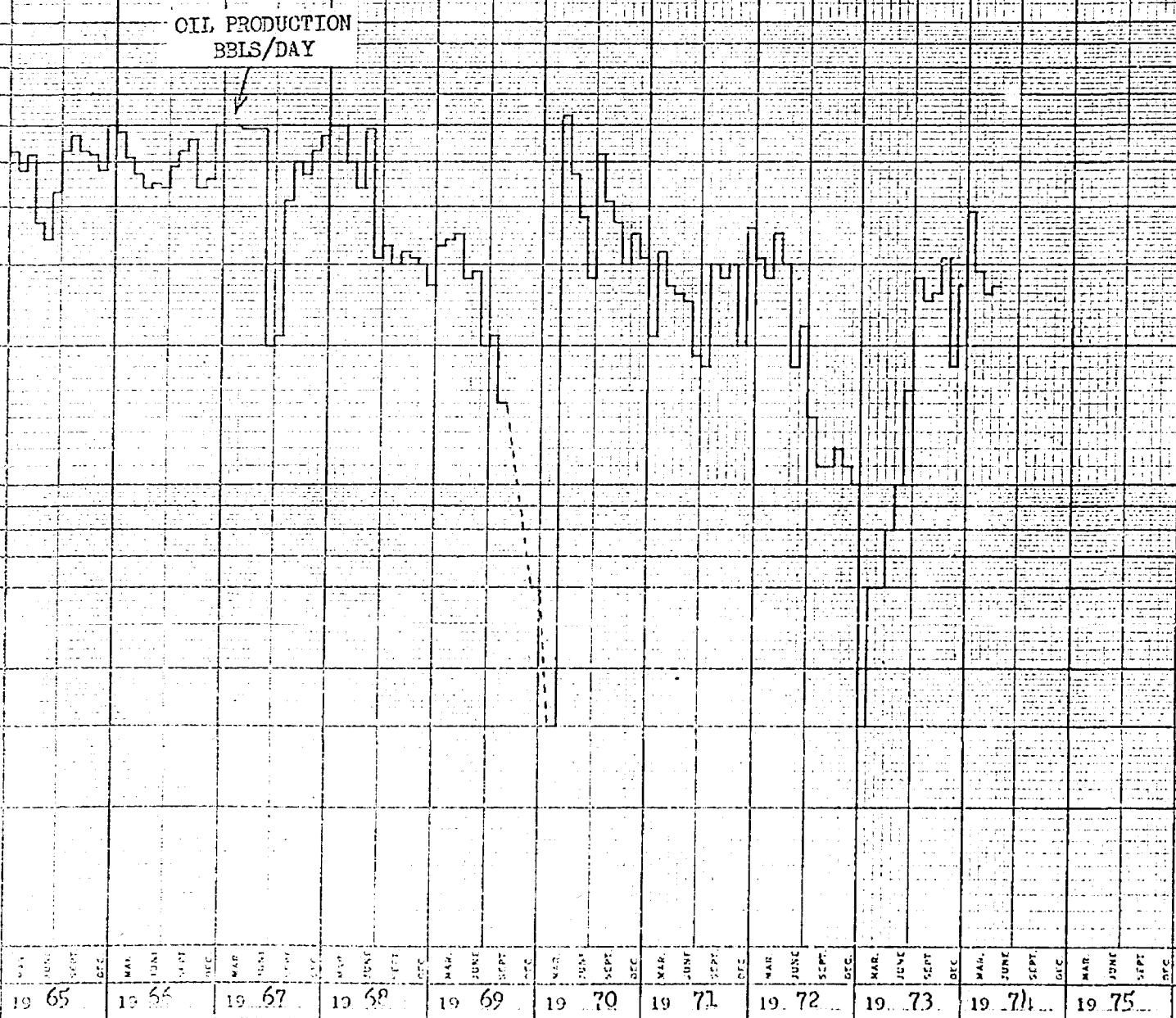
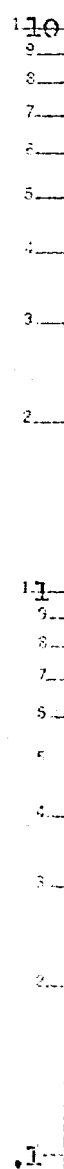
BEFORE EXAMINER STAMETS  
OIL CONSERVATION COMMISSION

OIL CONSERVATION CO.  
Tulsa EXHIBIT NO. 16

CASE NO. 5278

Controlled by

Hearing Date 7/24/74



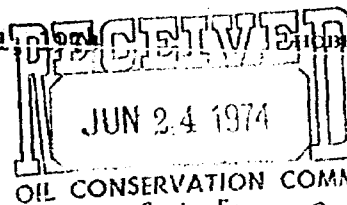




PETROLEUM PRODUCTS

June 21, 1974

TEXACO INC.  
DRAWER 728  
HOBBS, NEW MEXICO 88240



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

RE: REQUEST FOR EXAMINER HEARING  
Application for Downhole Commingling  
A. H. Blinebry Federal (NCT-1)  
Wells No. 23 and 26  
C. H. Lockhart Federal (NCT-1)  
Well No. 5  
Blinebry, Drinkard & Tubb Pools  
Lea County, New Mexico

ATTENTION: MR. A. L. PORTER, JR.

Gentlemen:

It is requested that an examiner hearing be scheduled to consider TEXACO'S application to downhole commingle the Blinebry, Drinkard and Tubb pools in the A. H. Blinebry Federal (NCT-1) Well No. 23 located in Unit C of Section 29, Township 22 South, Range 38 East; A. H. Blinebry Federal (NCT-1) Well No. 26 located in Unit B of Section 29, Township 22 South, Range 38 East; C. H. Lockhart Federal (NCT-1) Well No. 5 located in Unit C of Section 18, Township 22 South, Range 38 East, Lea County, New Mexico.

The USGS and all offset operators have been notified of this application.

Your cooperation in this matter will be appreciated.

Yours very truly,

J. V. GANNON  
District Superintendent

JBS:ls

CC: MAS, JR.  
NMOCC - Hobbs  
JSR

DOCKET MAILED

Date 7-12-74

DATA SHEET FOR WELLBORE COMMINGLING

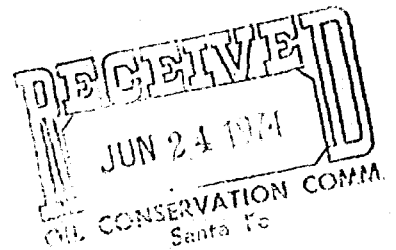
Operator: TEXACO INC.

Address: P. O. Box 728 - Hobbs, New Mexico 88240

Lease and Well No: C. H. Lockhart Federal (NCT-1) No. 5

Location: Unit C; 1979 Feet from the West Line and  
660 Feet from North Line of Section 18;  
 Township 22-S, Range 38-E; Lea County.

*Core 5278*



WELL DATA

	<u>Upper Pool</u>	<u>Lower Pool</u>
Name of Pool	<u>Blinebry (Proposed)</u>	<u>Tubb/Drinkard (Commingled)</u>
Producing Method	<u>Pump</u>	<u>Pump</u>
BHP	<u>400 (Est.)</u>	<u>500 (Est.)</u>
Type Crude	<u>Sweet</u>	<u>Sweet</u>
Gravity	<u>38.0 (Est.)</u>	<u>38.4</u>
GOR Limit	<u>4,000</u>	<u>2,000/6,000</u>
Completion Interval	<u>5580'-5753' (Proposed)</u>	<u>6170'-6210' / 6840'-7110'</u>
Current Test Date	<u>--</u>	<u>4-17-74</u>
Oil	<u>10 Est.</u>	<u>6</u>
Water	<u>0 Est.</u>	<u>0</u>
GOR	<u>3000 Est.</u>	<u>26,000</u>
Selling Price of Crude-\$/BBL.	<u>5.27</u>	<u>5.27</u>
Daily Income - \$/Day	<u>--</u>	<u>31.62</u>

COMMINGLED DATA:

Gravity of Commingled Crude 38.2  
 Selling Price of Commingled Crude - \$/BBL. 5.27  
 Daily Income - \$/Day 110.67

Net (Gain) ~~(\$222)~~ From Wellbore Commingling - \$/Day 79.05 (Production Increase of  
 based on current producing rates. 15 BOPD)

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

C-116  
Revised 1-1-65

Operator <b>TEXACO INC.</b>		Pool <b>*Tubb Drinkard</b>				County <b>Lea</b>										
Address <b>P. O. Box 728 - Hobbs, New Mexico 88240</b>						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.	
<b>C. H. Lockhart Federal (NCT-1)</b>	<b>5</b>	<b>C</b>	<b>18</b>	<b>22S</b>	<b>38E</b>	<b>4-17-74</b>	<b>P</b>	<b>-</b>	<b>-</b>	<b>8</b>	<b>24</b>	<b>0</b>	<b>38.4</b>	<b>6</b>	<b>156</b>	<b>26,000</b>
<div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%) rotate(-45deg); border: 1px solid black; padding: 5px;"> RECEIVED JUN 24 1974 OIL CONSERVATION COMM Santa Fe </div>																

\*Downhole Commingled

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.

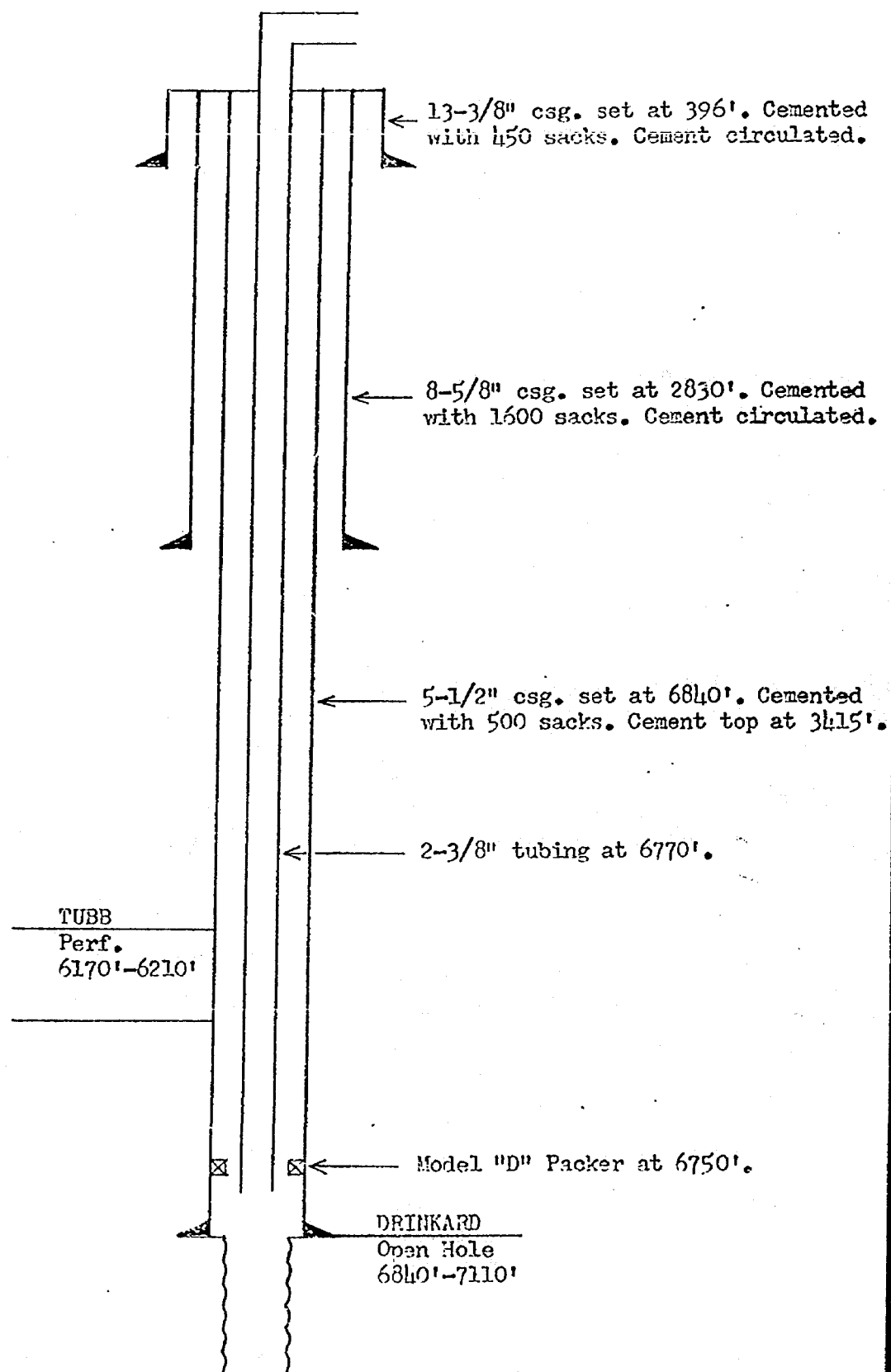
Mail original and one copy of this report to the district office of the New Mexico Oil Conservation Commission in accordance with Rule 301 and appropriate pool rules.

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

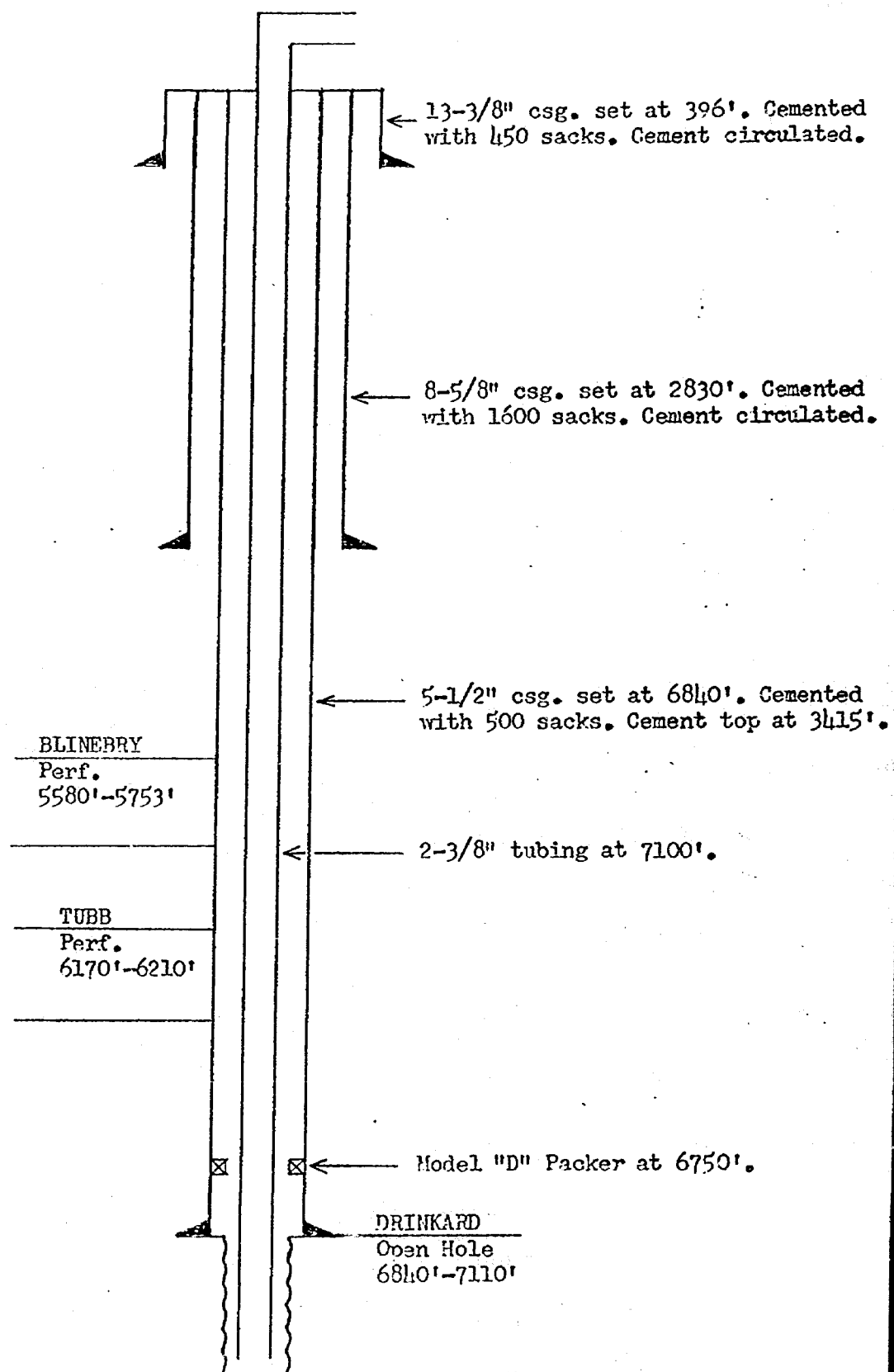
*(Signature)*  
**Assistant District Superintendent**

*(Title)*  
**June 21, 1974**

*(Date)*



Present Completion  
 TEXACO INC.  
 C.H. LOCKHART (NCT-1) NO. 5  
 TUBB AND DRINKARD POOLS  
 LEA COUNTY, NEW MEXICO



Proposed Completion  
 TEXACO INC.  
 C.H. LOCKHART (NCT-1) NO. 5  
 BLINEBRY, TUBB AND DRINKARD POOLS  
 LEA COUNTY, NEW MEXICO

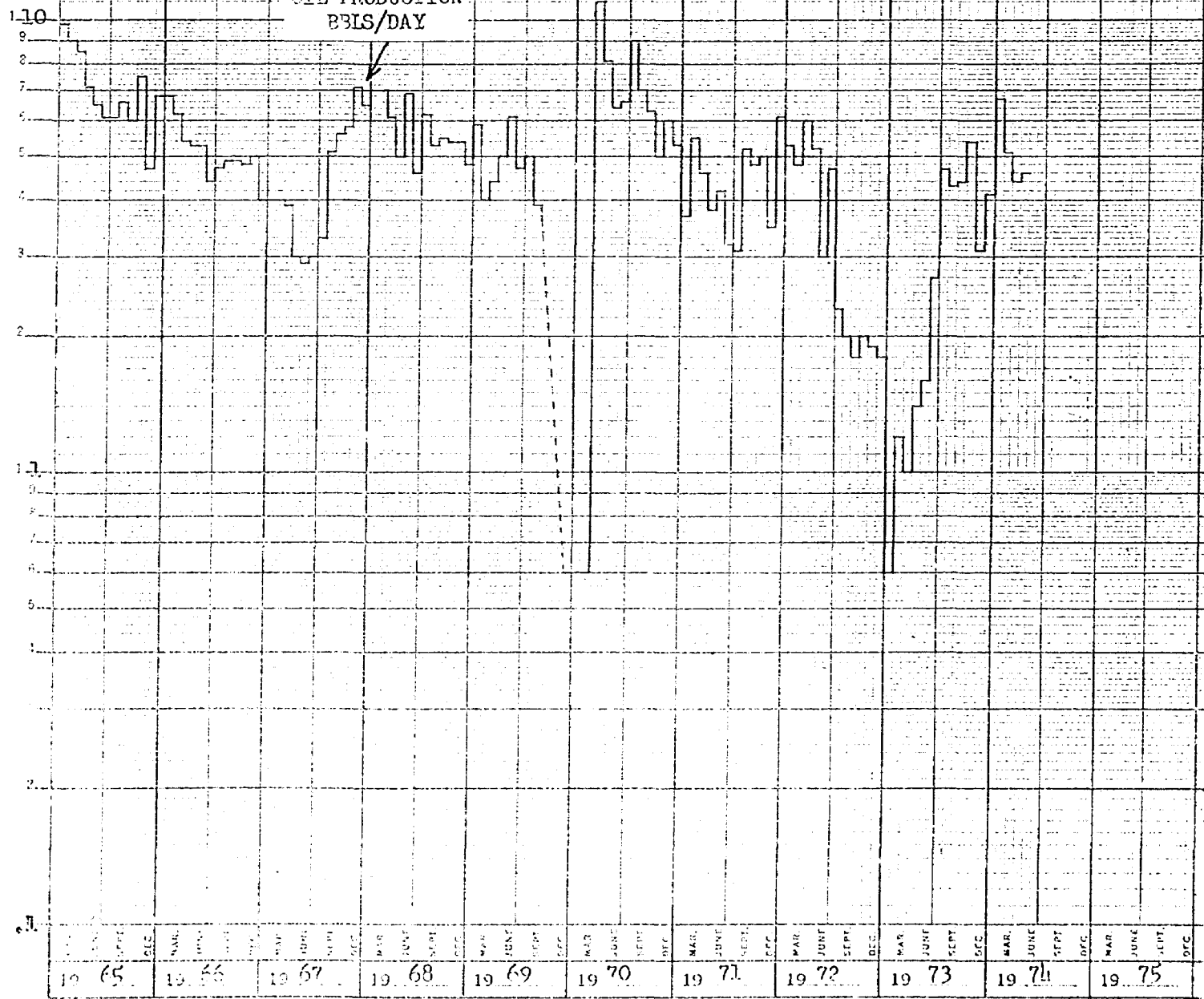
# **TEXACO INC.** **MIDLAND DIVISION**

Performance curve

C.H. LOCKHART (NCT-1) NO. 5  
 TUBB POOL  
 LEA COUNTY, NEW MEXICO

DRAWN BY: JBS DATE: 5-21-74

OIL PRODUCTION  
 BBL/DAY





OFFSET OPERATORS

Gulf Oil Corporation  
P. O. Box 670  
Hobbs, New Mexico 88240

Mabco Petroleum Corp.  
201 1st Savings Building  
Midland, Texas 79701

Exxon  
P. O. Box 1600  
Midland, Texas 79701

American Petrofina Co. of Texas  
P. O. Box 1311  
Big Spring, Texas 79720

Mark Production Co.  
1108 Simons Bldg.  
Dallas, Texas 75201



OFFSET OPERATORS

Gulf Oil Corporation  
P. O. Box 670  
Hobbs, New Mexico 88240

Mabee Petroleum Corp.  
201 1st Savings Building  
Midland, Texas 79701

Exxon  
P. O. Box 1600  
Midland, Texas 79701

American Petrofina Co. of Texas  
P. O. Box 1311  
Big Spring, Texas 79720

Mark Production Co.  
1108 Simons Bldg.  
Dallas, Texas 75201

R38E



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22  
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DATA SHEET FOR WELLBORE COMMINGLING

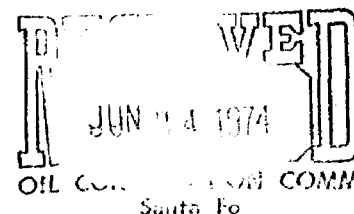
*Case 5278*

Operator: TEXACO INC.

Address: P. O. Box 728 - Hobbs, New Mexico 88240

Lease and Well No.: A. H. Blinebry Federal (NCT-1) No. 26

Location: 1980' FEL and 660' FNL of Section 29, Township 22 South, Range 38 East



WELL DATA

	Upper Pool	Middle Pool	Lower Pool
Name of Pool	Blinebry	Tubb (Proposed)	Drinkard
Producing Method	Pump	---	Pump
BHP	350-400 (Est.)	500 (Est.)	500 (Est.)
Type Crude	Sweet	Sweet	Sweet
Gravity	38.0	38.8 (Est.)	38.7
GOR Limit	4,000	2,000	6,000
Completion Interval	5626'-5831'	6236'-6347' (Proposed)	6972'-7169'
Current Test Date	5-10-74	---	5-12-74
Oil	1	10 (Est.)	2
Water	0	0 (Est.)	0
GOR	7,000	4,000 (Est.)	15,000
Selling Price of Crude - \$/BBL.	5.27	5.27	5.27
Daily Income - \$/Day	5.27	---	10.54

COMMINGLED DATA:

Gravity of Commingled Crude 38.4

Selling Price of Commingled Crude - \$/BBL. 5.27

Daily Income - \$/Day 121.21

Net (Gain) ~~\$/Day~~ from Wellbore Commingling - \$/Day 105.10 (Production Increase of 20 BOPD) based on current producing rates.

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

C-116  
Revised 1-1-65

Operator <b>TEXACO INC.</b>		Pool <b>Blinebry</b>				County <b>Lea</b>										
Address <b>P. O. Box 728 ~ Hobbs, New Mexico 88240</b>						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	TRG. 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.	
<b>A. H. Blinebry Federal (NCT-1)</b>	<b>26</b>	<b>B</b>	<b>29</b>	<b>22S</b>	<b>38E</b>	<b>5-10-74</b>	<b>P</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>24</b>	<b>0</b>	<b>38.0</b>	<b>1</b>	<b>7</b>	<b>7,000</b>

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

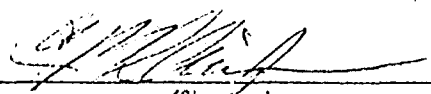
During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized 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.

  
 (Signature)  
**Assistant District Superintendent**  
 (Title)  
**June 21, 1974**  
 (Date)

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

C-116  
Revised 1-1-65

Operator <b>TEXACO INC.</b>				Pool <b>Drinkard</b>				County <b>Lea</b>								
Address <b>P. O. Box 728 - Hobbs, New Mexico 88240</b>						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.	
<b>A. H. Blinebry Federal (NCT-1)</b>	<b>26</b>	<b>B</b>	<b>29</b>	<b>22S</b>	<b>38E</b>	<b>5-12-74</b>	<b>P</b>	<b>-</b>	<b>-</b>	<b>6</b>	<b>24</b>	<b>0</b>	<b>38.7</b>	<b>2</b>	<b>30</b>	<b>15,000</b>

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

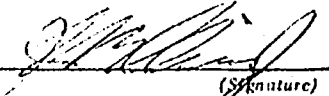
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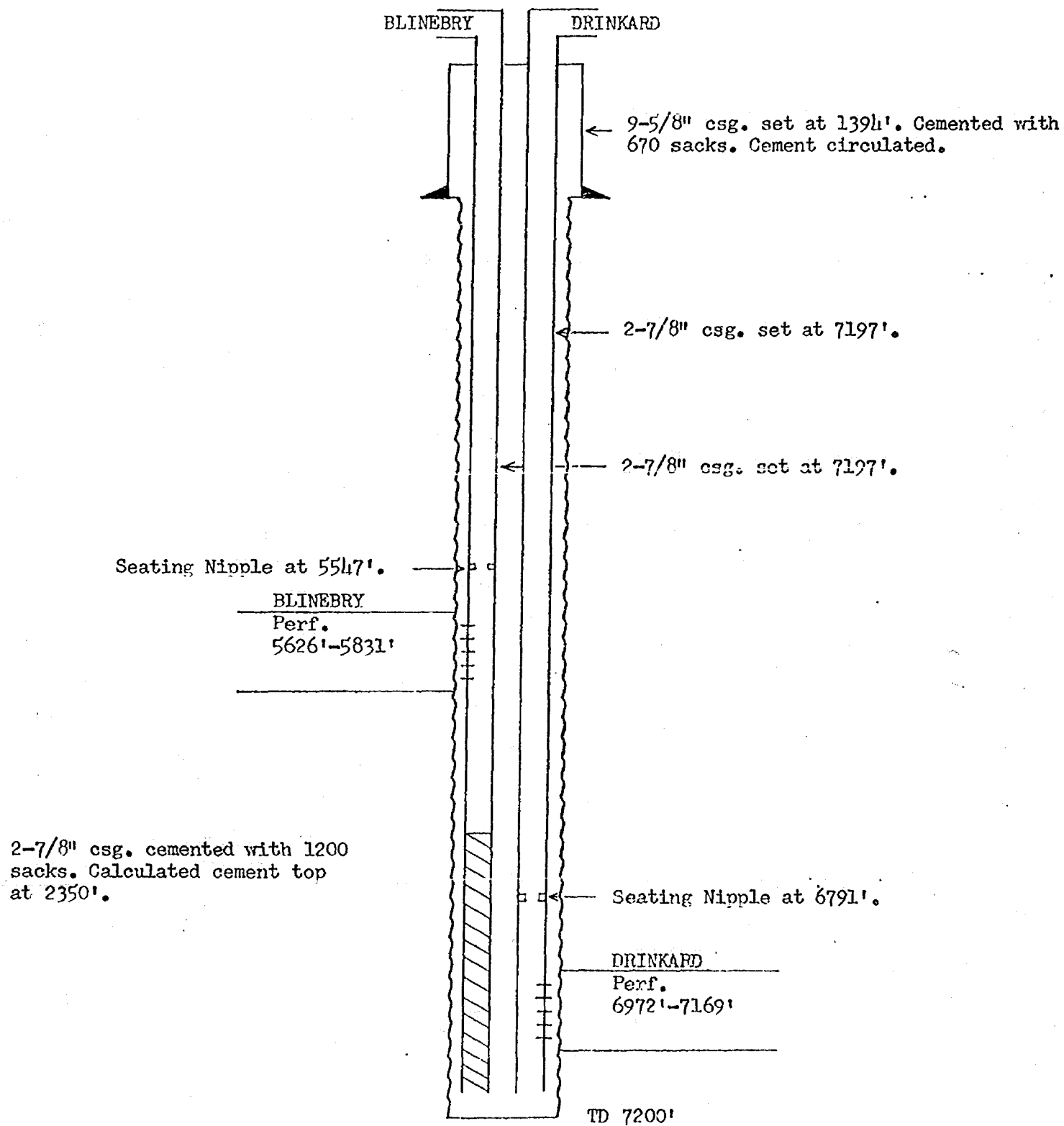
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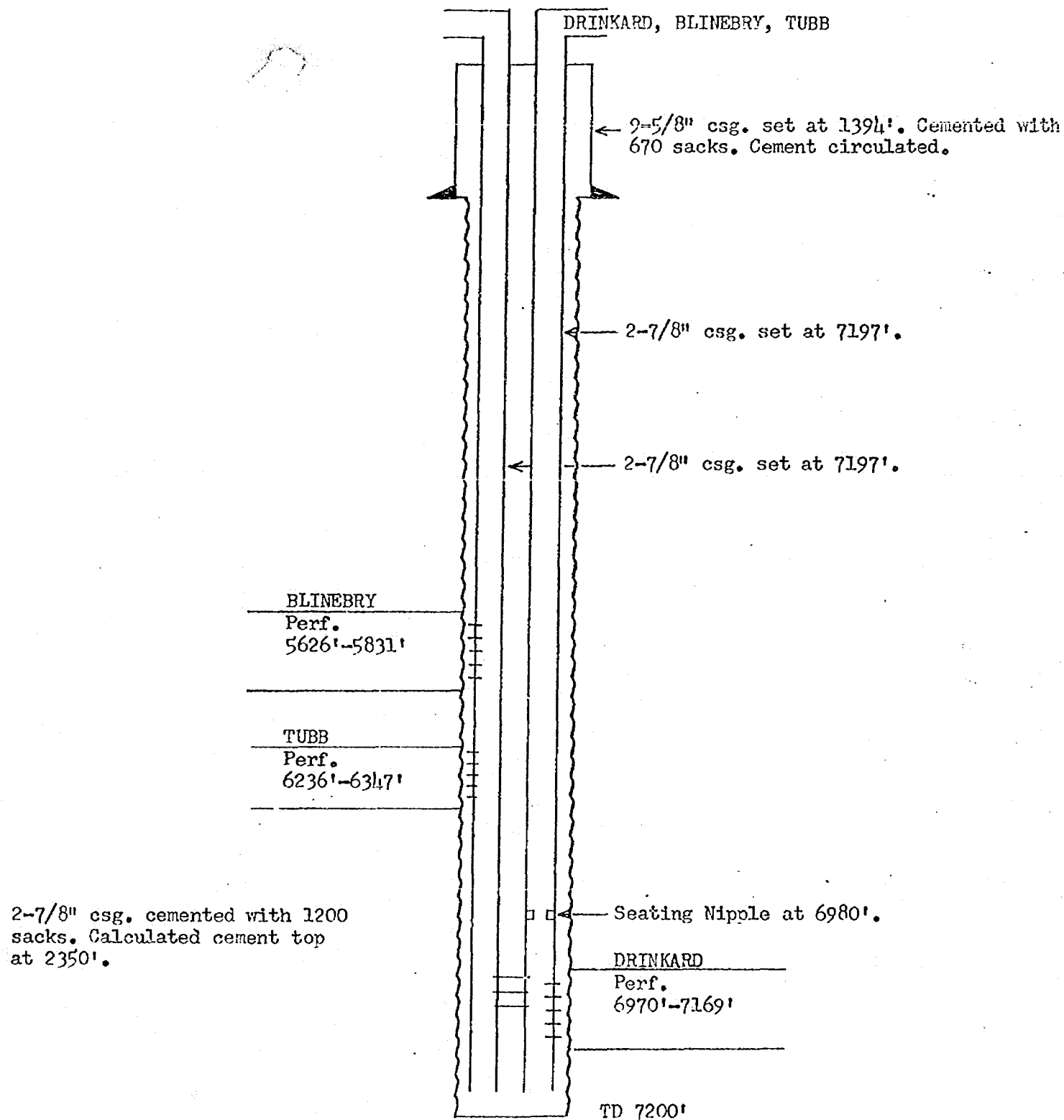
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I hereby certify that the above information is true and complete to the best of my knowledge and belief.

  
 (Signature)  
**Assistant District Superintendent**  
 (Title)  
**June 21, 1974**  
 (Date)



Present Completion  
 TEXACO INC.  
 A.H. BLINEBRY (NCT-1) NO. 26  
 DRINKARD AND BLINEBRY POOLS  
 LRA COUNTY, NEW MEXICO



Proposed Completion  
TEXACO INC.  
A.H. BLINEBRY (NCT-1) NO. 26  
DRINKARD, BLINEBRY AND TUBB POOLS  
LEA COUNTY, NEW MEXICO

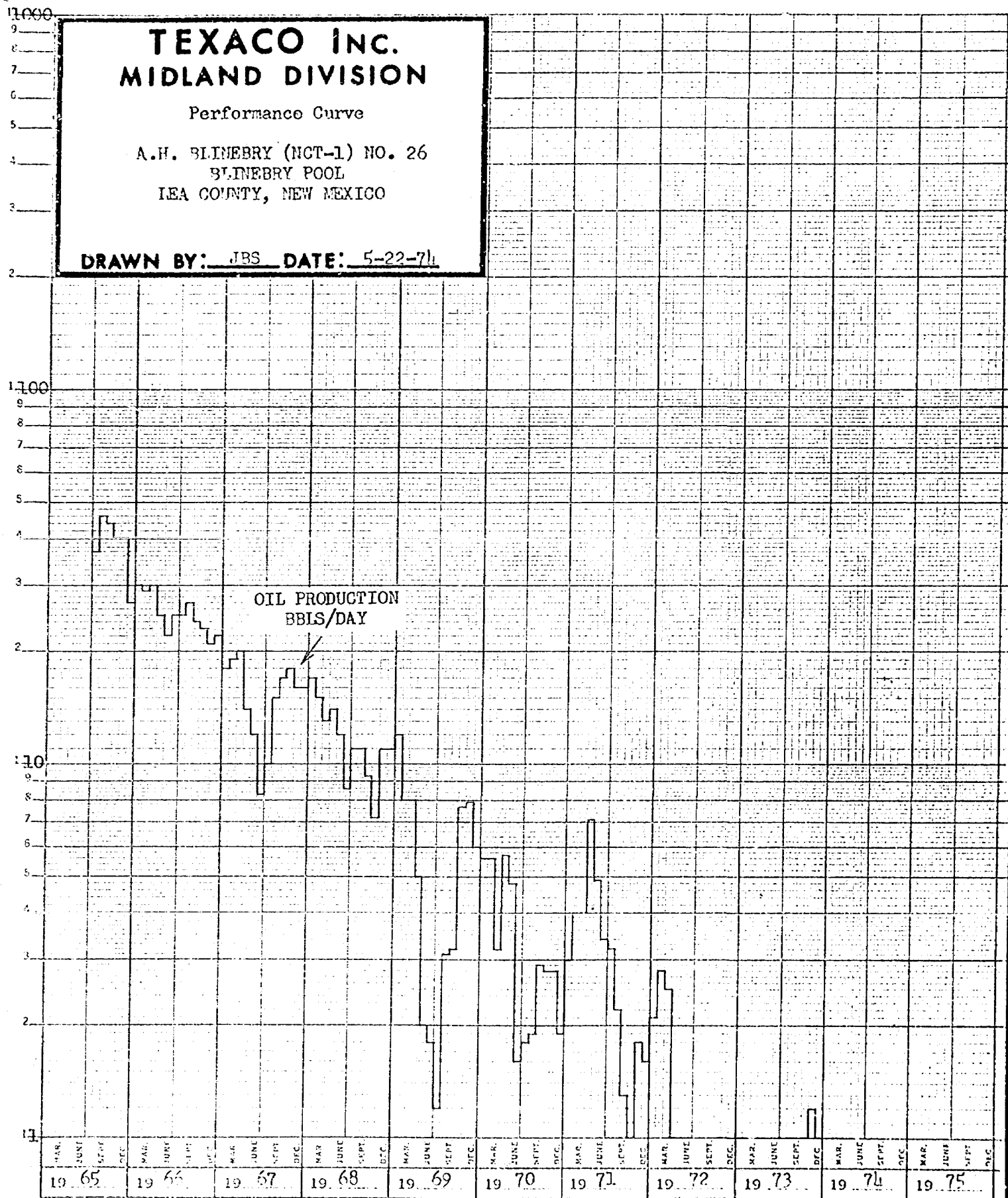


# **TEXACO INC.** **MIDLAND DIVISION**

Performance Curve

A.H. BLINEBRY (NCT-1) NO. 26  
 BLINEBRY POOL  
 IEA COUNTY, NEW MEXICO

DRAWN BY: JBS DATE: 5-22-74

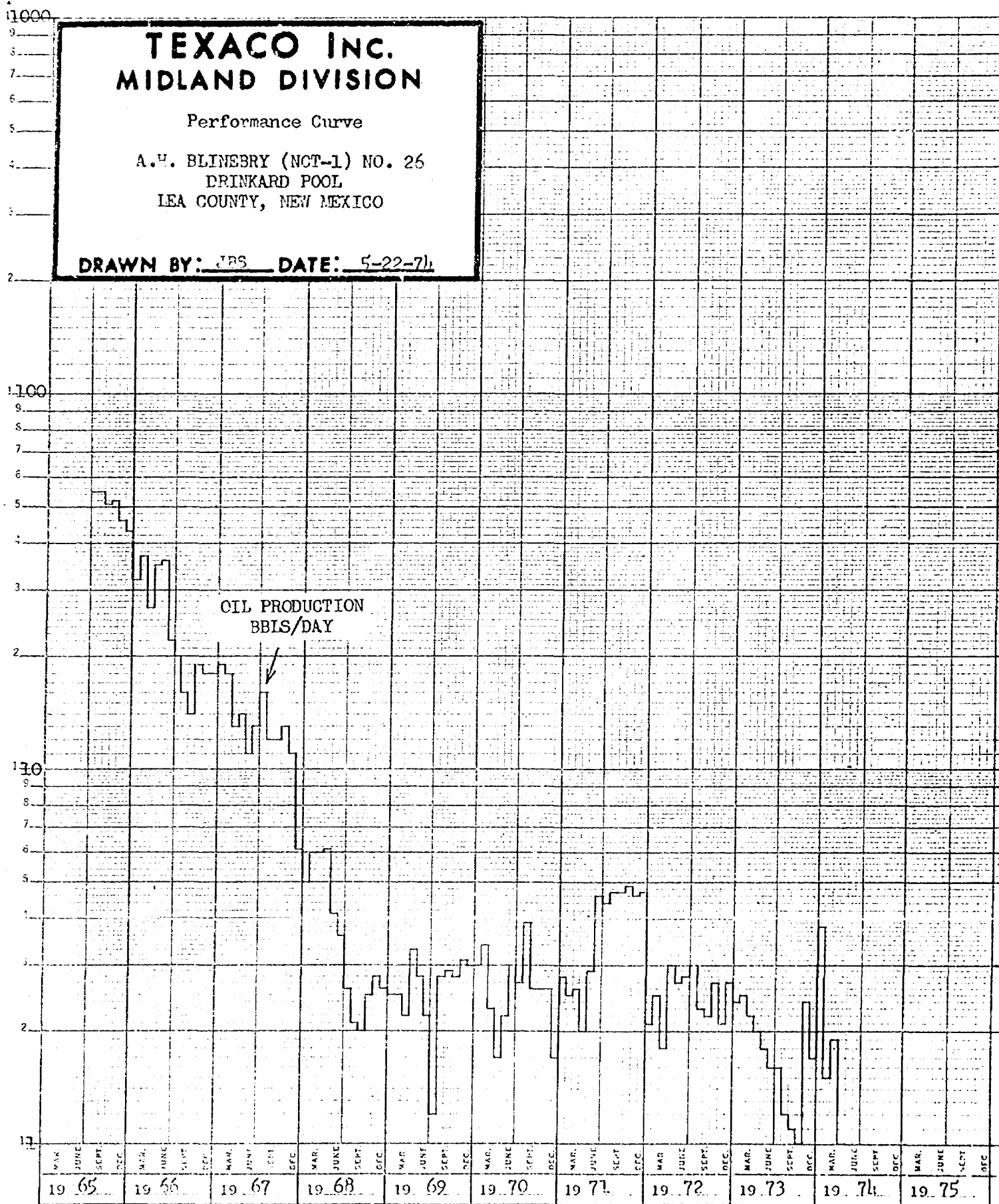


# **TEXACO INC.** **MIDLAND DIVISION**

Performance Curve

A.H. BLINBRY (NCT-1) NO. 26  
BRINKARD POOL  
LEA COUNTY, NEW MEXICO

DRAWN BY: JBS DATE: 5-22-71



OFFSET OPERATORS

Moranco  
P. O. Box 1860  
Hobbs, New Mexico 88240

Gulf Oil Corporation  
P. O. Box 670  
Hobbs, New Mexico 88240

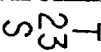
Summit Energy Inc.  
112 N. First  
Artesia, New Mexico 88210

Coquina Oil Corp.  
418 Bldg. of Southwest  
Midland, Texas 79701

8304



225



CW - GRANITE WASH (UNDESIGNATED)  
 LMTRO - LANGLEY MATIIX 7 RIVERS QUEEN  
 PD - PADDOCK  
 PS - PENROSE SKELLY GRAYBURG  
 SA - SANTA ROSA (UNDESIGNATED)  
 T - TUBB  
 WGW - WANTZ GRANITE WASH

DRAWN BY: FMR DATE: 1-9-69, 4-18-73 5-23-74

DATA SHEET FOR WELLBORE COMMINGLING

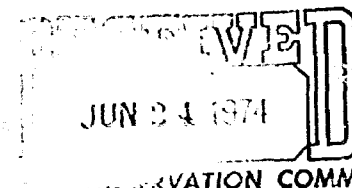
*Case 5278*

Operator: TEXACO INC.

Address: P. O. Box 728 - Hobbs, New Mexico 88240

Lease and Well No.: A. H. Blinebry Federal (NCT-1) No. 23

Location: 660' FNL & 1980' FWL, Section 29, Township 22 South, Range 38 East Santa Fe



WELL DATA

	Upper Pool	Middle Pool	Lower Pool
Name of Pool	Blinebry	Tubb (Proposed)	Drinkard
Producing Method	Pumping	-	Pumping
BHP	350-400 (Est.)	500 (Est.)	500 (Est.)
Type Crude	Sweet	Sweet	Sweet
Gravity	38.0	38.8 (Est.)	38.7
GOR Limit	4,000	2,000	6,000
Completion Interval	5624'-5791'	6152'-6266'	6855'-7048'
Current Test Date	5-6-74	-	5-7-74
Oil	1	20 (Est.)	2
Water	0	0 (Est.)	2
GOR	20,000	5,800 (Est.)	22,500
Selling Price of Crude - \$/BBL.	5.27	5.27	5.27
Daily Income - \$/Day	5.27	105.40 (Est.)	10.54

COMMINGLED DATA:

Gravity of Commingled Crude 38.4

Selling Price of Commingled Crude - \$/BBL. 5.27

Daily Income - \$/Day 174

Net (Gain) (~~Loss~~) from Wellbore Commingling - \$/Day 158 (Production increase of 30 BOPD) based on current producing rates.

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

C-116  
Revised 1-1-65

Operator <b>TEXACO INC.</b>				Pool <b>Drinkard</b>				County <b>Lea</b>								
Address <b>P. O. Box 728 - Hobbs, New Mexico 88240</b>						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	TGB. 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.	
<b>A. H. Blinebry Federal (NCT-1)</b>	<b>23</b>	<b>C</b>	<b>29</b>	<b>22S</b>	<b>38E</b>	<b>5-7-74</b>	<b>P</b>	<b>-</b>	<b>-</b>	<b>6</b>	<b>24</b>	<b>2</b>	<b>38.7</b>	<b>2</b>	<b>45</b>	<b>22,500</b>

OIL CONSERVATION COM. Santa Fe JUN 24 1974

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


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(Signature)  
**Assistant District Superintendent**  
(Title)  
**June 21, 1974**  
(Date)

NEW MEXICO OIL CONSERVATION COMMISSION  
GAS-OIL RATIO TESTS

C-116  
Revised 1-1-65

Operator <b>TEXACO INC.</b>		Pool <b>Blinebry</b>						County <b>Lea</b>								
Address <b>P. O. Box 728 - Hobbs, New Mexico 88240</b>						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 ALLOWABLE	LENGTH OF TEST HOURS	PROD. DURING TEST				GAS - OIL RATIO CU.FT/BDL.
		U	S	T	R							WATER BBLs.	GRAV. OIL	OIL BBLs.	GAS M.C.F.	
<b>A. H. Blinebry Federal (NCT-1)</b>	<b>23</b>	<b>C</b>	<b>29</b>	<b>22S</b>	<b>38E</b>	<b>5-6-74</b>	<b>P</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>24</b>	<b>0</b>	<b>38.0</b>	<b>1</b>	<b>20</b>	<b>20,000</b>

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

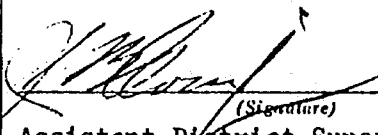
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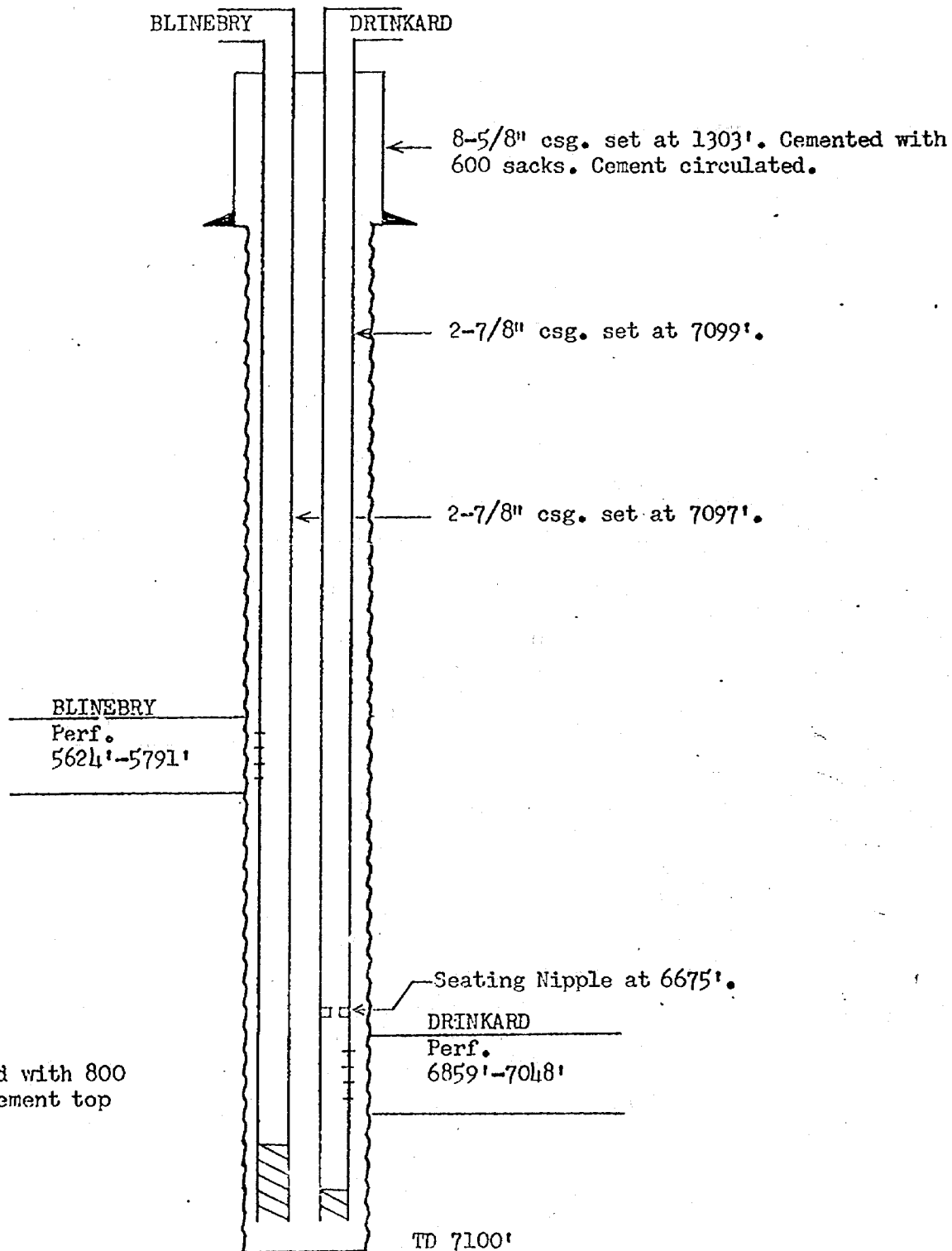
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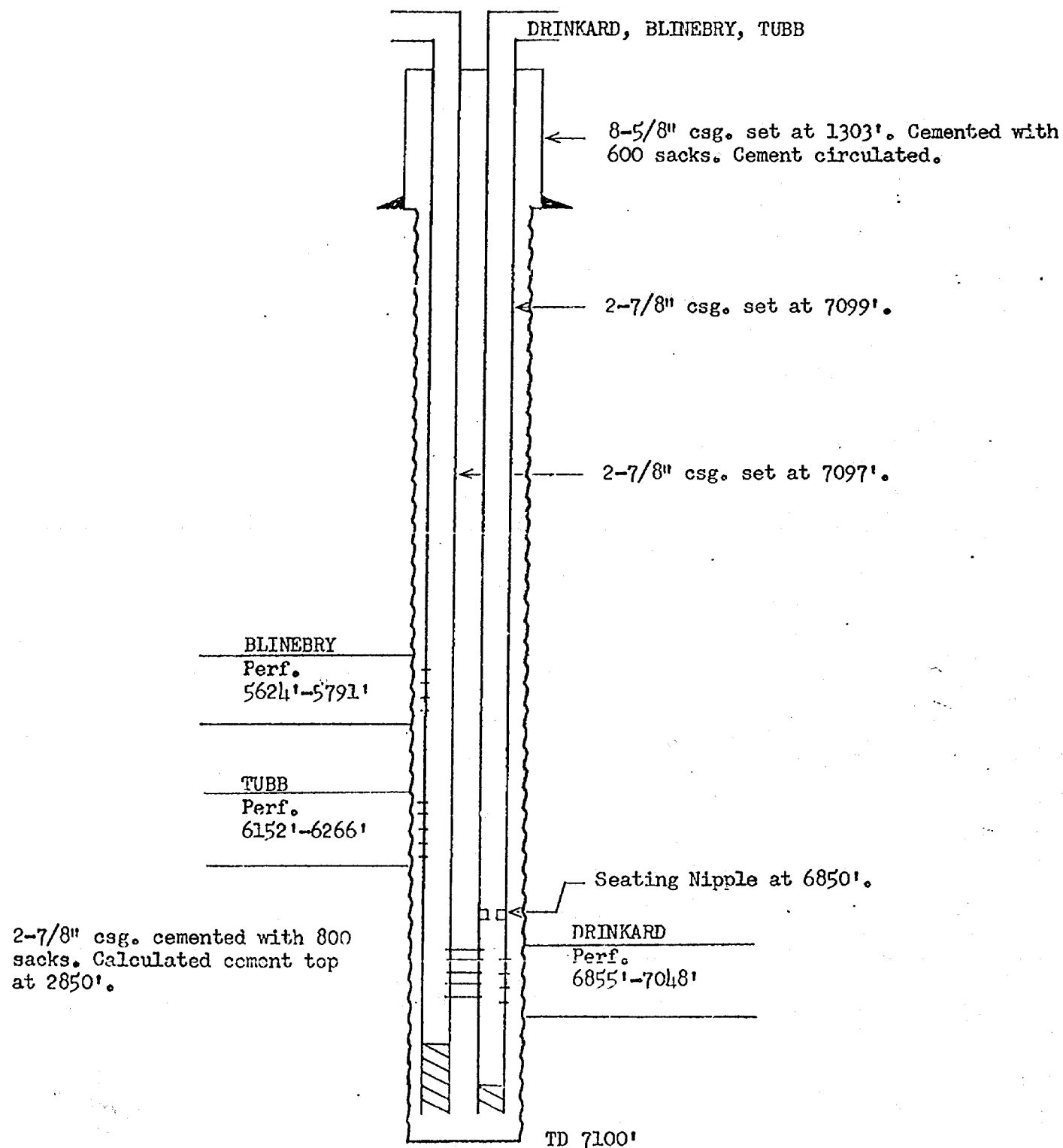
  
(Signature)  
**Assistant District Superintendent**  
(Title)  
**June 21, 1974**  
(Date)



2-7/8" csg. cemented with 800  
sacks. Calculated cement top  
at 2850'.



Present Completion  
TEXACO INC.  
A.H. BLINEBRY (NCT-1) NO. 23  
DRINKARD AND BLINEBRY POOLS  
LEA COUNTY, NEW MEXICO



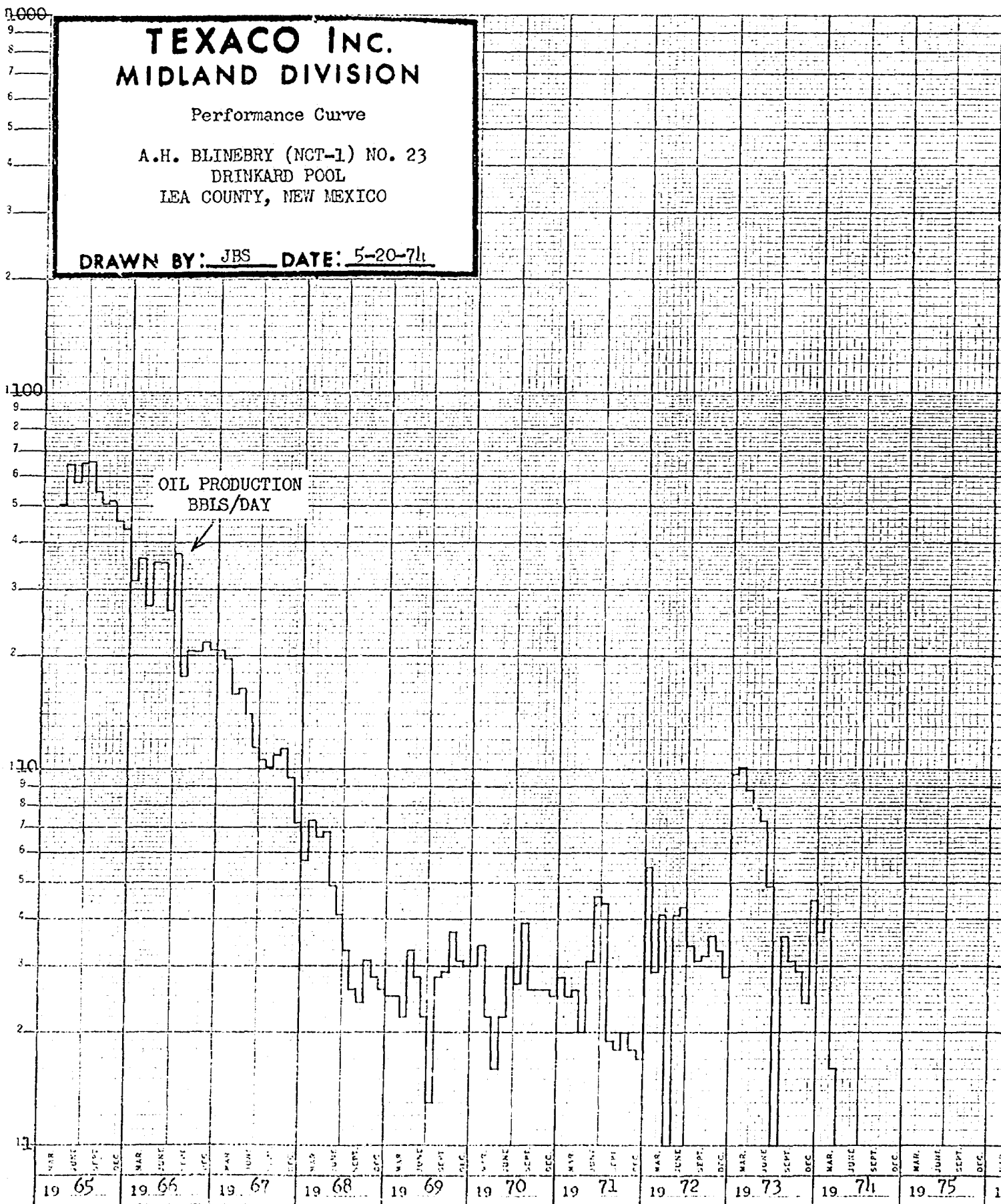
Proposed Completion  
 TEXACO INC.  
 A.H. BLINEBRY (NCT-1) NO. 23  
 DRINKARD, BLINEBRY AND TUBB POOLS  
 LEA COUNTY, NEW MEXICO

# **TEXACO INC.** **MIDLAND DIVISION**

Performance Curve

A.H. BLINEBRY (NCT-1) NO. 23  
DRINKARD POOL  
LEA COUNTY, NEW MEXICO

DRAWN BY: JBS DATE: 5-20-71



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# TEXACO INC. MIDLAND DIVISION

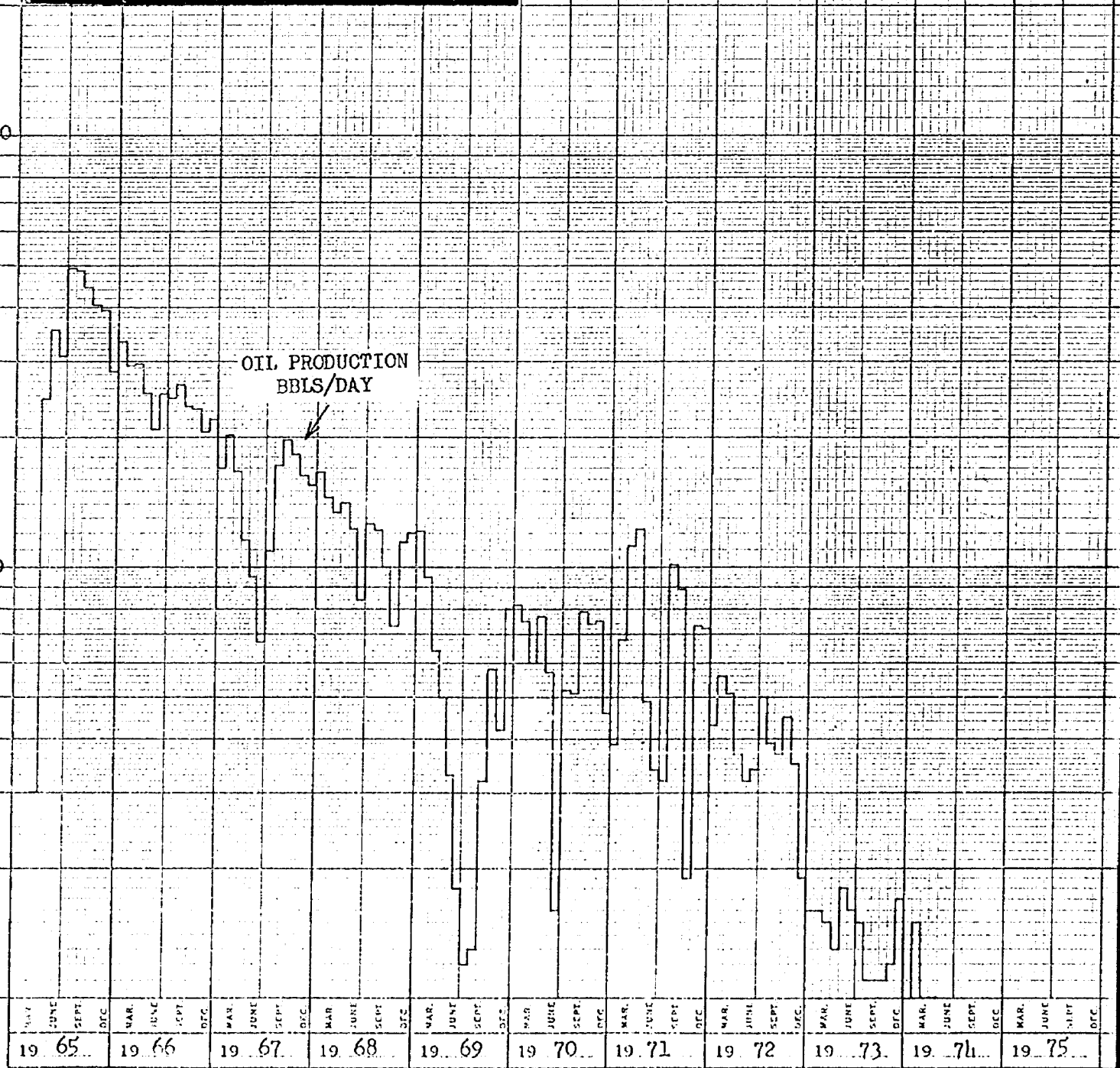
Performance Curve

A.H. BLINEBRY (NCT-1) NO. 23  
BLINEBRY POOL  
LEA COUNTY, NEW MEXICO

DRAWN BY: JBS DATE: 5-20-74

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OIL PRODUCTION  
BBL/DAY



OFFSET OPERATORS

Moranco  
P. O. Box 1860  
Hobbs, New Mexico 88240

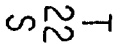
Gulf Oil Corporation  
P. O. Box 670  
Hobbs, New Mexico 88240

Summit Energy Inc.  
112 N. First  
Artesia, New Mexico 88210

Coquina Oil Corp.  
418 Bldg. of Southwest  
Midland, Texas 79701

American Petrofina Co. of Texas  
P. O. Box 1311  
Big Spring, Texas 79720

R38E



MEXICO  
TEXAS



DRAFT

jr/

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:

APPLICATION OF TEXACO, INC.  
FOR DOWNHOLE COMMINGLING,  
LEA COUNTY, NEW MEXICO.

CASE NO. 5278

Order No. R-4837

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on July 24, 1974  
at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this        day of August, 1974, 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, Texaco, Inc., is the owner and operator  
of its A. H. Blinbry Federal (NCT-1) Wells Nos. 23 and 26, located  
in Units C and B, respectively, of Section 29, and its C. H. Lockhart  
Federal Well No. 5, located in Unit C of Section 18, all in Township  
22 South, Range 36 East, NMPM, Lea County, New Mexico.



1 -2-

2 CASE NO. 5278

3 Order No. R-

4 (3) That the subject wells are currently completed as follows:

5 A. H. Blinebry Federal (NCT-1) Well No. 23:

6 dual completion (tubingless) producing oil from the

7 Drinkard and oil from the Blinebry formation through

8 two strings of <sup>2 7/8-inch casing</sup> ~~tubing, respectively~~, cemented in a

9 common wellbore.

10 A. H. Blinebry Federal (NCT-1) Well No. 26:

11 dual completion (tubingless) producing oil

12 from the Drinkard and oil from the Blinebry

13 formation through two strings of <sup>2 7/8-inch casing</sup> ~~tubing~~

14 ~~respectively~~, cemented in a common wellbore.

15 C. H. Lockhard Federal Well No. 5:

16 dual completion, downhole commingled, producing

17 commingled oil from the Drinkard <sup>Tubb and</sup> ~~and Tubb~~ formations

18 through a single string of <sup>2 7/8-inch casing</sup> ~~tubing~~.

19 (4) That the applicant proposes to recomplete each of the subject wells  
20 as follows:

21 A. H. Blinebry Federal (NCT-1) Well No. 23:

22 triple completion, tubingless, downhole commingled, to

23 produce oil from the Drinkard, <sup>Blinebry,</sup> ~~Blinebry~~ and Tubb formations

24 through one string of casing with all or part of the commingled  
25 gas production being produced through a second string of casing.

26 A. H. Blinebry Federal (NCT-1) Well No. 26:

27 triple completion, tubingless, downhole commingled, to

28 produce oil from the Drinkard, <sup>Blinebry,</sup> ~~Blinebry~~ and Tubb formations

29 through one string of casing with all or part of the commingled  
30 gas production being produced through a second string of casing.

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4 C. H. Lockhart Federal (NCT-1) Well No. 5:  
5 triple completion, <sup>downhole commingled,</sup> ~~(conventional)~~ to produce  
6 oil from the Drinkard, <sup>Blincray,</sup> ~~formation~~ through the  
7 ~~tubing and oil from the Blincray and Tubb~~  
8 ~~formations commingled in the annulus.~~ <sup>through one string of tubing casing.</sup>

9 (5) That each of the zones to be commingled in the subject  
10 wells is capable of low marginal production only.

11 (6) That the proposed commingling will not violate correlative  
12 rights and may result in the recovery of additional oil from each  
13 of the subject pools, thereby preventing waste.

14 (7) That the reservoir characteristics of each of the subject  
15 zones are such that underground waste would not be caused by the  
16 proposed commingling provided that the wells are not shut-in for  
17 an extended period.

18 (8) That in order to afford the Commission the opportunity to  
19 assess the potential for waste and expeditiously to order appropriate  
20 remedial action, the operator should notify the Hobbs District  
21 Office of the Commission any time any of the subject wells are  
22 shut-in for 7 consecutive days.

23 (9) That upon completion of each of the subject wells, the  
24 applicant should <sup>consult with the Supervisor</sup> ~~discuss the prior rate of production and the~~  
25 ~~new rate of production with the Supervisor of the District Office~~  
26 <sup>of the Commission, Hobbs district office</sup> ~~in order to allocate~~ the commingled  
27 production to each of the commingled zones in the subject wells.

28  
29 determine a formula for the  
30  
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4 (10) That each of the subject wells should continue to be  
5 governed by all Commission Rules and Regulations governing multiple  
6 completions to the extent that said Rules and Regulations are not  
7 inconsistent with this order.

8 IT IS THEREFORE ORDERED:

9 (1) That the applicant, Texaco, Inc., is hereby authorized to  
10 complete its A. H. Blinebry Federal (NCT-1) Well No. 23, located  
11 in Unit C of Section 29, its A. H. Blinebry Federal (NCT-1) Well  
12 No. 26, located in Unit B of Section 29, and its C. H. Lockhart  
13 Federal (NCT-1) Well No. 5, located in Unit C of Section 18, all  
14 in Township 22 South, Range 38 East, NMPM, Lea County, New Mexico  
15 as multiple completions as follows:

21 A. H. Blinebry Federal (NCT-1) Well No. 23:

22 triple completion, tubingless, downhole commingled, to  
23 produce oil from the Drinkard, <sup>Blinebry,</sup> ~~Blinebry~~ and Tubb formations  
24 through one string of <sup>2 7/8-inch</sup> casing with all or part of the commingled  
25 gas production being produced through a second string of <sup>2 7/8-inch</sup> casing.

26 A. H. Blinebry Federal (NCT-1) Well No. 26:

27 triple completion, tubingless, downhole commingled, to  
28 produce oil from the Drinkard, Blinebry and Tubb formations  
29 through one string of <sup>2 7/8-inch</sup> casing with all or part of the commingled  
30 gas production being produced through a second string of casing.

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4 C. H. Lockhart Federal (NCT-1) Well No. 5:  
5 triple completion <sup>down hole commingled,</sup> (conventional) to produce  
6 oil from the Drinkard, <sup>Blinberry</sup> formation through the  
7 tubing and <sup>^</sup>oil from the ~~Blinberry~~ and Tubb  
8 formations <sup>Through one string of tubing 2 7/8-inch casing</sup> commingled in the ~~annulus~~.

9 (2) That upon completion of each of the subject wells in the  
10 manner described above, the operator ~~thereof~~ <sup>immediately</sup> shall consult with  
11 the supervisor of the Commission District Office at Hobbs to  
12 determine <sup>a</sup> ~~the~~ formula for allocation of production to each of the  
13 commingled zones in ~~the subject wells~~ <sup>such well</sup>.

14 (3) That the operator of the subject wells shall immediately  
15 notify the Commission's <sup>Hobbs</sup> District Office any time any of such wells  
16 have been shut-in for 7 consecutive days.

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

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