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BEFORE THE OIL CONSERVATION COMMISSION SANTA FE; NEW MEXICO

# TRANSCRIPT OF PROCEEDINGS

28 a.

Case No. 370

Regular Hearing May 20, 1952

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BEFORE THE OIL CONSERVATION COMPLISSION SANTA FE, NEW MEXICO

May 20, 1952

In the Matter of:

Champlin Refining Company's application for an order excepting its State 'A' No. 1 NM Well, SW SE 32-10S-37%, Lea County, New Mexico (In the Echol Pool) from provisions of Oil Conservation Commission Rule 505, and granting an allowable to said well equal to allowable other producing wells in Echol Pool.

Case No. 370

(Notice of Publication read by Mr. Graham.)

NR. CAMPBELL: If the Commission please, I would like first, for the record, to reflect a correction in the application. In paragraph 1, numbered 1, in the next to the last line, the fraction 49/40-S should be changed to 59/40-S; and in paragraph 2, in the last line, the fraction 49/40-S should be changed to 58/40-S; and the acreage factor should be changed from 1.475 to 1.45. I would also like for the record to show that this application is joined in by Harry W. Bass Drilling Company joining with Champlin Refining Company, and I would like to enter appearance in the case for the Harry W. Bass Drilling Company of Dallas, Texas.

Would you swear Mr. Kenneth Smith, please?

ADA DEARNLEY & ASSOCIATES COURT REPORTERS ROOM 12, CROMWELL BLDG. PHONES 7-9645 AND 5-9846 ALBUQUERQUE, NEW MEXICO MR. GRAHAM: Will you explain the reason for the change? MR. GAMPBELL: The reason for the change is that 1 made an incorrect mathematical calculation. It is a case of 19 additional acres instead of 9 additional acres on the one well, and 18 additional acres instead of 9 acres on the other well. The acreage factor change is by virtue of the fact that there is less acreage in the second tract.

 $\underline{K \ \underline{E} \ \underline{N} \ \underline{N} \ \underline{E} \ \underline{T} \ \underline{H}} \qquad \underline{L} \qquad \underline{S \ \underline{E} \ \underline{I} \ \underline{T} \ \underline{H}},$ having been first duly sworn, testified as follows:

#### DIRECT EXAMINATION

By MR. CAMPBELL:

Q Will you state your name, please?

A Kenneth L. Smith.

Q By whom are you now employed?

A F. Kirk Johnson, Fort Worth, Texas.

Q Wore you at the time the Champlin Refining Company well in the Echol Pool was drilled and completed employed by Champlin Refining Company?

A Yes.

Q Will you state, for the Commission, briefly, your professional education background?

A Geology major at the College of Wooster, Ohio, and B.S. Degree in Petroleum Engineering, University of Pittsburgh, Pennsylvania; registered engineer, professional engineer, Oklahoma; eight years with Stanolind Oil and Gas Company in the Engineering

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Department; and two years at Champlin Refining Company in the Production Department.

NR. CAMPBELL: Are the qualifications of the witness satisfactory with the Commission?

MR. SPURRLER: They are.

Q Were you employed by Champlin Refining Company when they completed a well in the southwest quarter, southeast quarter of Section 32, Township 10 South, Range 37 East?

A Yes.

(Marked Exhibit No. 1, Case No. 370, for identification.) Q I hand you what has been identified as Exhibit No. 1 and ask you to state to the Commission what that is.

A This is a plat of the immediate vicinity of the Echol field in Lea County showing the surface location of the three productive wells and the one non-productive well drilled to the Devonian Reservoir. It also shows three completion dates and their total depths of these wells.

Q Will you state to the Commission the location of The Texas Company well immediately south of your well?

A That well is a 660 foot offset to the south of our well and slightly to the west. It is along the correction line there.

Q That well, if it were on the 40-acre drilling unit south of the 18-acre tract, would be a unorthodox location, would it not?

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Yes.

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Q Is it your understanding that The Texas Company has applied for and obtained authority for that location?

A Yes.

Q ... What is the allowable on your well at present?

A The allowable on our well is 311 barrels per day.

Q And that is based on a normal 40-acre allowable, is it?

A Yes, for wells that depth.

Q What is the allowable for The Texas Company well offsetting your well?

A Their present allowable is 444, approximately 444 barrels per day.

Q Referring to that map again, the Southern Production Company's well, what is the relationship of it in distance to the north line of Section 2?

A They are approximately 1,267 feet south of the section line in the entire lease.

• That makes three wells slightly north of what would be the north-south center of that tract in Section 2, is that correct?

A Yes.

Q While you were employed by Champlin Refining Company, did you become acquainted with the production history of your well in this pool?

A Yes, I have.

ADA DEARNLEY & ASSOCIATES COUNT REPORTERS ROOM 12, CRONWELL BLDG. PHONES 7-9645 AND 5-9546 ALBUQUERQUE, NEW MEXICO (Marked Exhibit No. 2, for identification.)

Q I hand you what has been identified as Exhibit No. 2 and ask you to state to the Commission what that represents?

A Exhibit No. 2 is a series of productivity index tests that have been taken at three different producing rates to determine the wells ability to produce.

O Will you state first how you took these tests, what period of time is involved, and then what the report showed?

A These tests were run by a consulting engineering firm from Midland, and in order to determine our exact productivity on the well, this well was taken at three different rates, a high rate, an intermediate rate and low rate, and the bottom hole pressure of the well was measured for each of the rates in order to determine the actual productivity index of the well. These rates, to be exact, were run at 186 barrels per day, 330 barrels per day, and 634 barrels of cil per day, and the rate was maintained at this rate and bottom hole pressure measured after it had equalized and remained constant.

Q What did you find after you made your test?

A We found that at the rate of 630 barrels of oil per day the well produced its volume of oil on a 12-64 choke with a bottom hole pressure drop. From shut-in static pressure it dropped down approximately 200 pounds, which gave a P. I. of 3.14, which is an exceptionally good P. I. for a well of this nature.

(Exhibit No. 3 marked for identification.)

ADA DEARNLEY & ASSOCIATES COURT REPORTERS ROOM 12, CROMWELL BLDG. PHONES 7-9645 AND 5-9546 ALBUQUERQUE, HEW MEXICO

N SHOW IN

I hand you what has been identified as Exhibit No. 3 and ask you to state what that is.

A This is a complete electrical log of Champlin Refining and Harry E. Bass Drilling Company subject well under discussion showing both a micro log and a regular Schlumberger survey of the well.

Are you acquainted with the general geological picture in this area by virtue of the drilling of a dry hole you referred to to the west of your well?

A Yes.

0 With your knowledge of that, what is your opinion as to the probable extent of this particular oil pool?

A My firm opinion of the nature of this field is that what we have encountered here is what might be termed a pimple type reservoir or reservoir of very small aerial extent, and from the data that we have collected from the subsea tops that have been encountered on the Devonian in the four wells drilled in this immediate area, in my opinion there is little chance for any extension of this field. The two wells that came in fairly low, which was Champlin's well and Scuthern Production Company, have dropped off considerably from the original well drilled by The Texas Company which came in quite high. There is a difference of 200 feet, 200 feet low, than the discovery well, the dry hole was 446 feet lower, which definitely cuts it off. Contrary to what information we have available, it shows to be of a very small

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area in extent with small chance of there being additional development in this field.

Q What is the position, structural, of the Southern Production well in relation to your well?

A The well is approximately flat. Their well came minus 7,766 fest and Champlin Bass came in at minus 7,769 feet, a difference of three feet on the subsea.

Q With the structural positions of those two wells and the knowledge of your structure of the dry hole, you are able to pretty well delineate the aerial extent of this particular pool, is that correct?

A That is correct.

Q Will you state to the Commission what it is that Champlin Refining Company is asking in this application?

A We are asking that our well be given an allowable, increased its allowable to be able to produce at the same rate as has been given to the other two wells in the area. Over a period of time, with further development improbable, at least at the present time in this field due to the geological information collected to date, the other two wells are producing at a 50 per cent higher rate than our well, which in turn over a period of time would mean that they would recover 50 per cent more oil than we would in having drilled. They have spent the same amount of money, their recovery would be considerably increased, and it would work an undue hardship upon the owners of the well, ours to

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the north.

Q Enat is your position insofar as the fact that The Texas Company well is located only a normal distance from your well insofar as the differential in allowable is concerned. Do you consider that to be a factor that the Commission should consider?

A Yes, I do, there being only a 660 offset from our well and being given a 50 per cent greater allowable than we are allowed to produce can cause us not to be able to recover the amount of oil which we should receive out of this water-type drive reservoir.

Q In connection with the ability of your well to make this additional allowable, I understood you to say that your allowable, if your request is granted, would be increased to 440 barrels a day?

A Yes.

Q You have testified from the P. I. test, and you have studied the Schlumberger electric log, and are acquainted with the production history of your well, in your opinion will your well make 440 barrels per day allowable without damage to the well or the reservoir?

A Definitely so. The well has the ability to produce a considerable greater amount of oil than this. Our one P. I. was run at the rate of 634 barrels of oil per day and only reduced the bottom hole pressure approximately 200 pounds at 440, or 50 barrels of oil per day there would be even less drop in bottom

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hole pressure than that, and at the present time there has been no water showing in our well, or to the best of my knowledge, in any of the offset wells in this field.

Q I think the Commission records will show that some difficulty has been encountered in connection with The Texas Company well insofar as its making its present allowable is concerned. Are you acquainted with that situation?

A To some extent.

In your opinion, based on your study of the well records in this field, is it your opinion that The Texas Company well if it were, if it had been completed in a normal way would have made its full allowable?

Α That is my definite opinion, that if the same completion methods had been used on The Texas Company well, it would probably be of a greater productivity than either the two offset wells. Our well has about the same, Champlin well has about the same productive characteristics as the Southern Production Company They have run a similar set of P. I. tests on their well well. and have come out very close to being the same. The Texas well is located higher on structure and possibly has a greater pay They have used considerable acid in attempting to resection. complete and complete their well. The fact of the matter several thousand gallons, but the significant fact was that both Southern Production and ourselves only used 500 gallons of a different type acid and received the well with a light productivities that

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we got. The main difference, I believe, in the wells is the methods in which they were completed and that The Texas Company well does have possibilities of being a more productive well than either of the two offsets.

Q If the Commission were to grant this additional allowable to your well and there was subsequent development in the field which indicated that it was a larger aerial extent, and it developed that, for instance, that you had a well to the east on the 40-acre tract, would you be willing to then reduce the allowable to the normal 40-acre unit allowable?

A If further development of this field would prove us to be wrong in our conception of it being a small reservoir and we drilled our east 40, we would be most willing to have it put back on the original basis.

Q But it is your present opinion that such development would not be wise?

A That is our present opinion, that a prudent operator won't do any drilling in the immediate vicinity of our well.

MR. CAMPBELL: I believe that is all. I want to make a statement to the Commission after any other statements.

MR. RAY: I would like to ask the witness a question. Have you made any study of the porosity in the pay section in this pool?

A Yes, a study of only the information which is available from the electric log and the productivity index tests run on the

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Champlin well and the Southern Production Company well.

MR. RAY: You have no information on The Texas Company's well?

As to productivity index tests?

A

MR. RAY: You have no information that would indicate that the nature of the pay section in The Texas Company well is equivalent to the other two wells in the field?

A From the electric log in position in the structure, yes, it appears it has a chance of being a more productive well, but from the actual producing history of it, it hasn't been as yet, today.

MR. RAY: Would you deny the possibility that the pay section in our well might be tighter than found in your well and Southern Production's well?

A When the wells were originally completed all wells exhibited approximately the same characteristics until the acid was applied as stimulization, it is my understanding that your well used a regular type acid in large quantities and failed to receive the same type of reaction that the other two wells received with a very small amount of a different type of acid. It is my opinion that that may be one of the causes for the lower productivity received in The Texas Company well.

MR. RAY: This might also be caused by a tighter section in our well and a lower permeability in that zone.

A The evidence I have looked at to date doesn't indicate

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that to me.

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NR. RAY: But that would be a possibility?

Extreme possibility.

MR. RAY: That is all.

MR. SPURRIER: Are there any other questions of this witness?

MR. MACEY: You made the statement that the Southern Production Company was producing about 50 per cent-more oil than you were producing from your well?

A I didn't mean to make that statement, if I did. I meant that their allowable was approximately 50 per cent higher than ours.

MR. MACEY: Are you sure it is?

A I understand, that has been my understanding that it either is pendim or about to be granted by this Commission.

MR. MARLEY: The case is pending but there hasn't been any order issued on it. Do you happen to know how much The Texas Company well is producing at the present time?

A Yes, I think, I know approximately. I think they are producing at or slightly less than 300 barrels per day.

MR. MACEY: Your well is producing how much?

A 311 barrels per day until the recent cutback in pipeline runs.

MR. MACEY: That is all.

MR. SPURRIER: Any other question? If not, the witness

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may be excused.

(Witness excused.)

MR. CAEPBELL: I would like to make a statement to summarize this testimony.

The application for the additional allowable in this particular area is based on two propositions. In the first place, as the Commission knows and it is apparent from this map, The Texas Company well was located and drilled at a point considerably north of what would be the approximate center of this rectangular 58-acre tract and results in a direct 436 offset from the couth line of the Champlin Refining Company tract. If this well is completed, which we believe it will be to make a producer which will produce the allowable which has already been granted to The Texas Company well, it will certainly create a considerable differential in withdrawals and allowable from the two wells directly offsetting each other.

The second factor is that this is apparently an extremely small field. The obvious result of the allocation of the allowable on the basis of a well drilled that far north of the south line of The Texas Company tract and also the Southern Production tract is that all of that acreage is being added to their allowable and the ultimate withdrawals from the reservoir for the same investment will obviously be out of balance and the Champlin Refining Company and Harry W. Bass Drilling Company feel that in light of these

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two situations in this particular field that they are entitled to the same allowable as the other two wells in the field are granted.

MR. CAMPHELL: Let the record show that exhibits are offered in evidence.

MR. SPURAIER: Without objection they will be received.

Any other comment in this case? The case will be taken under advisement.

The next case on the Docket is Case No. 371.

STATE OF NEW MEXICO

I HEREBY CERTIFY that the foregoing and attached transcript of hearing in Case No. 370 before the Oil Conservation Commission, State of New Mexico, at Santa Fe, on May 20, 1952, is a true and correct record of the same to the best of my knowledge, skill and ability.

DATED at Albuquerque, New Mexico, this \_\_\_\_\_ day of May, 1952.

REPORTER

ADA DEARNLEY & ASSOCIATES COURT REPORTERS ROOM 12, CROMWELL BLOG. PHONES 7-9645 AND 5-9546 ALBUQUERQUE, NEW MEXICC

### 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. 370 ORDER NO.

> > $\langle \cdot \rangle$

THE APPLICATION OF CHAMPLIN REFINING COMPANY AND HARRY W. BASS DRILLING COMPANY FOR AN ORDER EXCEPTING STATE "A" NO. I NM WELL IN THE SWISEL OF SECTION 32, TOWNSHIP 10 SOUTH, RANGE 37 EAST N.M.P.M., LEA COUNTY, NEW MEXICO IN THE ECHOL POOL FROM THE PROVISIONS OF RULE 505 OF THE COMMISSION.

### ORDER OF THE COMMISSION

#### BY THE COMMISSION:

This cause came on for hearing at 9:00 a.m. on May 20, 1952 at Santa Fe, New Mexico before the Oil Conservation Commission of New Mexico, hereinafter referred to as "Commission."

NOW, on this \_\_\_\_\_ day of \_\_\_\_\_\_, 1952, a quorum being present, having considered the testimony adduced and the exhibits received at said hearing, 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 and the persons interested therein.

(2) That due to the unorthodox location of the Texas Company's State AR Well No.l in the NE $\frac{1}{4}$ SW $\frac{1}{2}$  of Section 2, Township 11 South, Range 37 East, the irregularly shaped tracts in the NW $\frac{1}{4}$ SE $\frac{1}{4}$  of Section 2, Township 11 South, Range 37 East, and to the small areal extent of the Echol Pool, the application should be

granted in order to protect correlative rights and provide for equitable withdrawals from the pool.

IT IS THEREFORE ORDERED:

That applicants are hereby granted an exception from the provisions of Rule 505 of the Rules and Regulations of this Commission for their State "A" No. 1 NM Well, and from and after the date of this Order said well should be granted an allowable equal to the allowable granted the Texas Company's State AR Well No. 1 in the NE<sup>+</sup><sub>4</sub>SW<sup>+</sup><sub>4</sub> of Section 2 and the Southern Production, Inc.'s State A-1 Well in the NW<sup>+</sup><sub>4</sub>SE<sup>+</sup><sub>4</sub> of Section 2, Township 11 South, Range 37 East, Lea County, New Mexico, notwithstanding any variation in size of the proration unit upon which any of the said wells are located.

DONE at Banta Fe, New Mexico, on the day and year hereinabove written.

OIL CONSERVATION COMMISSION

Signed by:

Chair	man	 	

Member

Secretary

Case 370

## APPLICATION BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

Comes now, Champlin Refining Company on this 3d day of April 1952 and makes application to the Oil Conservation Commission of New Mexico for an order excepting its State "A" No. 1 NM well, located in the SW/4 SE/4 section 32, Township 10 South, Range 37 East, Lea County, New Mexico, in the Echol pool, from the provisions of Rule 505 of the Rules and Regulations of the Commission, and granting an allowable to said well equal to the allowable granted other wells now producing in the Echol pool. As its basis for the application, applicant states:

1. That on or about August 27, 1951 the Texas Company completed its State of New Mexico AR well No. 1 in the NE/4 SW/4 section 2, T.11 S, R.37 E, said well being 660 feet south of the north line of section 2. The tract on which this well was drilled included a lot composed of 18,52 acres on the north which was, by Order No. R-122 of the Commission, effective December 18, 1951, unitized as Lot 3 with the normal 40-acre tract, being the NE/4 SW/4 section 2 on which the well was drilled, and that this well has been granted an allowable based upon  $\frac{49}{40}$ , or an acreage factor of 1.475.

2. That on or about March 2, 1952 Southern Production, Inc. completed its State A-1 well in the NW/4 SE/4 section 2, T.11 S, R.37 E, said well being located 1,267 feet south of the north line of section 2 at a point approximately in the north-south center of the tract, composed of Lot 2 and the NW/4 SE/4 section 2; that Southern Production, Inc. in Case 357, now pending before the Commission after hearing on April 15, seeks to unitize Lot 1 with the tract on which the well is drilled and will then receive an allowable of approximately  $\frac{44}{40}$ , or an acreage factor of -1-475.

3. That the applicant on or about March 29, 1952 completed its State A-1 NM well at an orthodox location 660 feet north of the south line of section 32 in the SW/4 SE/4 section 32, T.10 S, R.37 E; that in the absence of an exception, said well would be given a normal unit allowable.

4. That the location of The Texas Company AR well at an unorthodox location 660 feet south of the north line of section 2, which is a long section with the additional allowable granted to it, results in drainage from the land of the applicant and adversely affects its correlative rights. Wherefor the applicant respectfully requests that the Commission set this application for public hearing at the May 20, 1952 regular hearing of the Commission and that due and proper notice be given as required by law, and that the Commission after hearing issue its order granting the application for the relief set out in the first paragraph herein.

> CHAMPLIN REFINING COMPANY Enid, Oklahoma

By ATWOOD, MALONE AND CAMPBELL

April 30, 1952