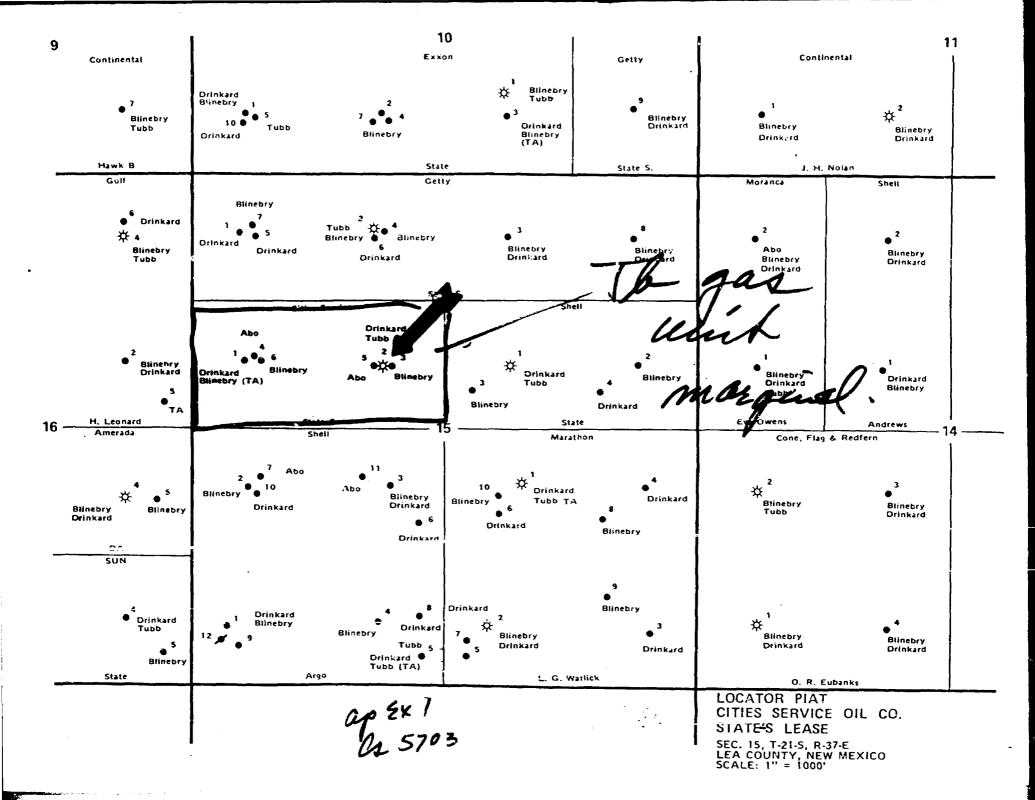
CASE 5703: CITIES SERVICE OIL CO. COUNTY, NEW MEXICO

CASE NO.

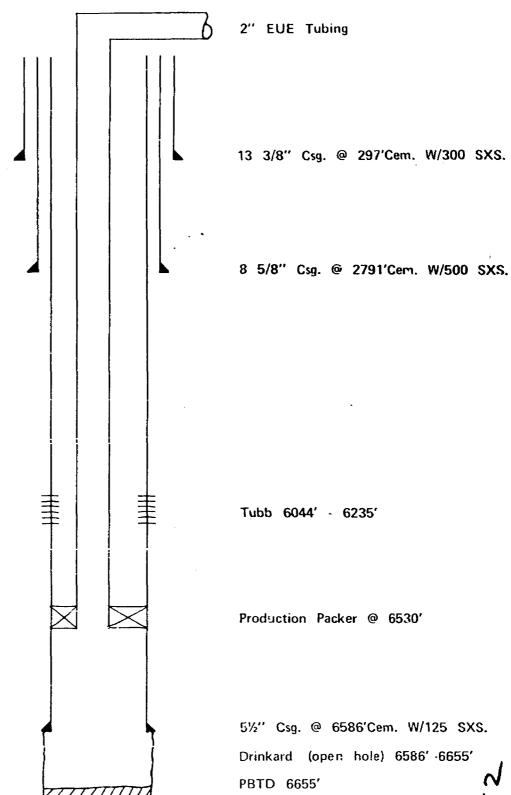
5703

APPlication,
Transcripts,
Small Exhibits,

ETC.

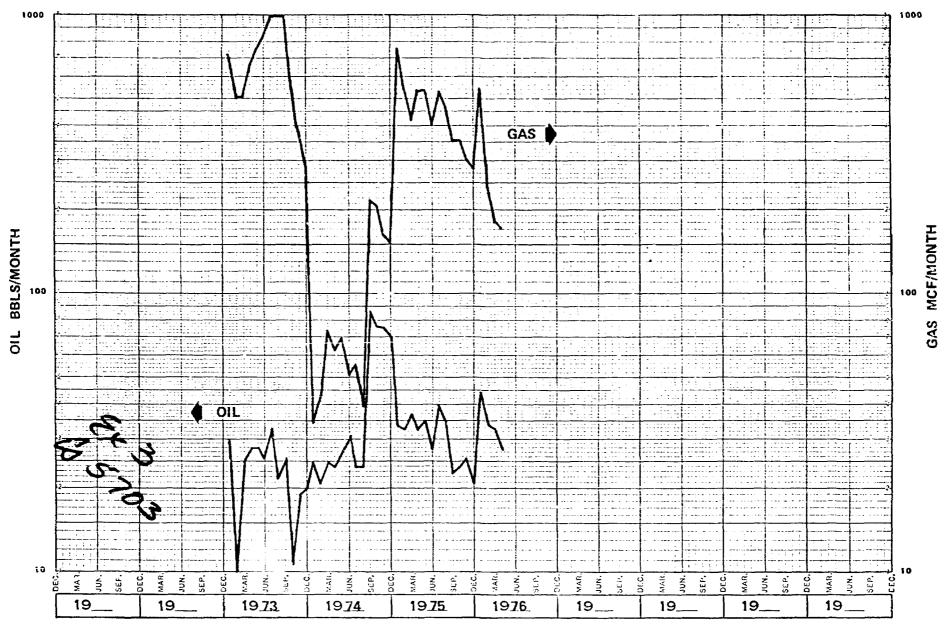


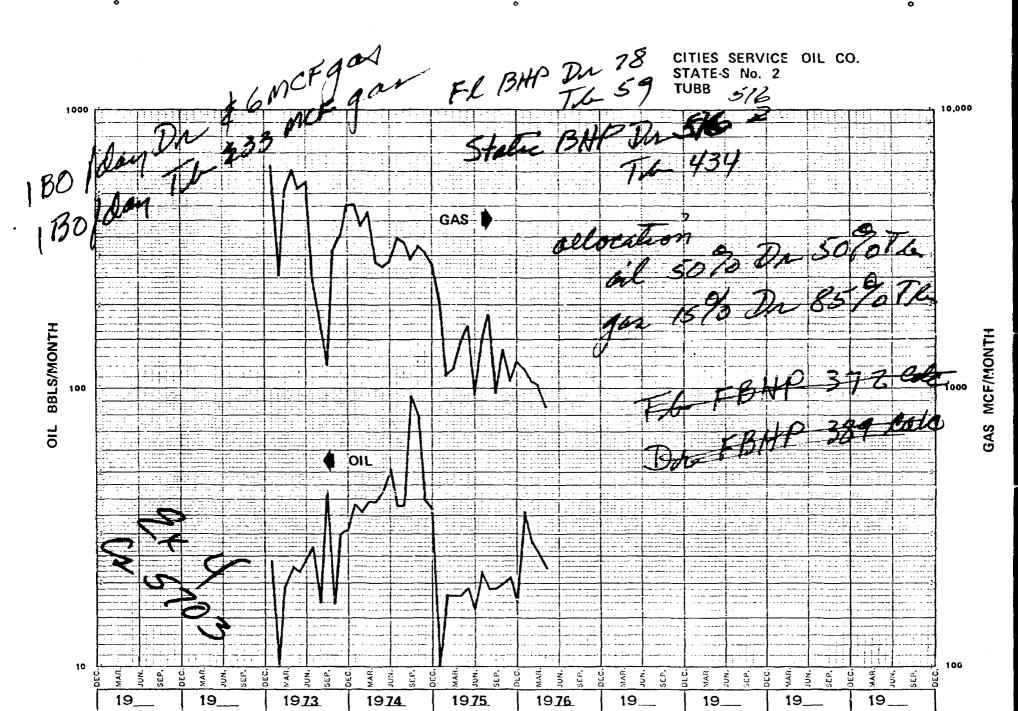
CITIES SERVICE OIL CO. STATE-S No. 2 CURRENT DRINKARD-TUBB DUAL COMPLETION



TD 6676'

CITIES SERVICE OIL CO. STATE-S No. 2 DRINKARD





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BEFORE THE NEW MEXICO OIL CONSERVATION COMMISSION Santa Pe, New Mexico July 7, 1976

EXAMINER HEARING

IN THE MATTER OF:

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

CASES 5702**(**& 5703

BEFORE: Daniel S. Nutter, Examiner

TRANSCRIPT OF HEARING

APPFARANCES

For the New Mexico Oil

William F. Carr, Esq.

Conservation Commission:

Legal Counsel for the Commission

State Land Office Building

Santa Fe, New Mexico

For the Applicant:

Jason W. Kellahin, Esq.

KELLAHIN & FOX Attorneys at Law 500 Don Gaspar Santa Fe, New Mexico

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MR. NUTTLE: We will call now Case Number 5702.

MR. CARR: Case 5702, application of Cities Service Oil Company for downhole commingling, Lea County, New Mexico.

MR. KELLAHIN: If the Examiner please, Jason Kellahin Kellahin & Fox, Santa Fe, appearing on behalf of the applicant in this case. We have one witness I would like to have sworn.

(THEREUPO"), the witness was duly sworm.)

MR. KELLAHIN: Mr. Examiner, the witness says he can handle them both in one record so I would ask that you consolidate Case 5703 with 5702.

MR. MUTTIR: We will now call Case 57(1.

MR. CARR: Case 5703, application of Citles Service Oil Company for downhole commingling: Lea County, New Mexico.

MR. NUTTER: Cases 5702 and 5703 will be consolidated for purpose of hearing.

MR. KELLAHIN: If the Examiner please, the two sets of exhibits have been marked as to each case and sequence so there may be a little confusion back and forth there but we will attempt to cover them as we go along here.

ELMER STARTE

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

DIRECT EXAMINATION

BY MR, KDIA AHIN:

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	and the second second	7 6 7 3	A P. C. SA C. CO	A () (4)	44444455	1.1

- A. Elmer Startz.
- (t By whom are you employed and in what position, Mr. Startz?
- A. Cities Service Oil Company in the Region, Petroleum Engineer, Midland, Texas-
- Q And have you testified before the Oil Commission and made your qualifications a matter of record?
 - A. Yes.

MR. KELLAHIN: Are the witness's qualifications acceptable?

MR. NUTTER: Yes, they are.

- 0 (Mr. Kellahin continuing.) Mr. Startz, are you familiar with the applications of Cities Service Oil Company in Cases 5702 and 5703?
 - A. Yes, sir.
- 0. Briefly what is proposed by the applicant in these two cases?
- A. We propose to seek Commission approval to commingle downhole the production from the Drinkard and Tubb formations.
- Now, referring to what has been marked as Exhibits Number One in each of the two cases, would you identify those two exhibits please?
- A. They are plats showing the Brunson "B" lease and the State "S" lease of Cities Service Oil Company and the

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surrounding leases, as well as the surrounding well locations and completions.

- 0. Has production from either one of these wells been commingled within the two zones on the surface?
 - A No, sir.
 - You haven't used common tank batteries?
 - A Oh, yes, on the surface, yes, sir.
 - Do you have commingled production at the surface?
 - A. Yes, sir.
 - Q On both of them?
 - A Yes, sir.
 - Q Has it caused any loss in the value of the product?
 - A. No, sir.
- Number Two in the two cases, would you identify those exhibits?
- A. Those are schematic diagrams of the two wellbores in each case under the present conditions.
 - O These are as the wells are presently completed?
 - A. Yes, sir.
- Q Well, now, with reference to Exhibit Two in Case 5702, the Brunson "B" No. 7 Well, what is the status of that well at the present time, have you had any problems with it?
- a The well is commingled, in other words, there is communication between the two zenes.

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 \emptyset — Is that because of a packer leakage or do you think there are other problems in the well?

A. We feel certain that it is communication behind the casing. A little over a year ago, or last year it was, we pulled the tubing and checked everything out and the tubing appeared to be in good condition and as a result of this we feel that the communication is behind the long string.

Now, this did show up on your latest packer leakage test?

A Yes.

Q Now, if this application is approved do you propose to do anything in the nature of recompleting this well?

A. No, sir, we would propose to continue producing as it is.

Q. Would the production from this well justify a recompletion?

A. In my opinion, no, considering the fact that the communication is behind the five-and-a-half casing.

Now, what is the status of the State No. 2 Well?

A. The latest packer leakage test there showed communication between the two zones also and this is an extremely marginal well. However, in this case I believe the communication -- I don't know but it is probably in the tubing string.

Q Now, would you propose to make any change in the

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present completion if this application is approved?

A No, sir.

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- n fact, the production is presently being commingled in this well?
 - A. Yes, sir.
- Now, referring to Exhibits Three in the two cases, would you identify those two exhibits?
- A These are production curves during the last three years of the Drinkard formation in each well.
- Q. Now, in the Brunson "B" No. 7 that well is not at the present time a marginal well, is it?
 - A No, sir, it is above marginal, I guess.
- Q But is the production such that you would anticipate a long life if you recompleted the well as a dual completion, could you justify a dual completion?
- A. I don't believe we could justify dually completing the well and eliminating the communication.
 - A That is because you think it is behind the pipe?
 - A. Yes, sir.
- Q. And would you run the risk of losing the well if you attempted to do that?
- 22 A. I think we would lose considerable production if we did.
 - Q Now, how about the No. 2 Well, what is the status of that well, is it a marginal well?

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Å.	Yes,	sir,	it	is	very	marginal.
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O In 1974 there apparently was some increase in production, was that due to the well having been shut in for a period of time?

A. Yes, it was curtailed there. I'm not real sure but I believe it was overproduced slightly.

- Q And that would account for the sudden rise in it?
- A Yes, a sudden drop and then a sudden rise later on.

MR. NUTTER: You are talking about the Drinkard zone in the No. 2 Well, Mr. Kellahin?

MR. KELLAHIN: 139, sir, the State "S" 2.

MR. NUTTER: You are talking about that increase in production in '74?

A Yes, sir, the decrease and then the increase later in the year.

Q. (Mr. Kellahin continuing.) You say you think the well was shut in?

A. It wasn't completely shut in, I think it was curtailed due to being overproduced. I believe it was, I'm not real sure on this now.

MR. NUTTER: Mr. Startz, am I reading this exhibit right, the well currently would be producing about twenty-eight barrels a month?

A Yes, sir. That's twenty-eight barrels of oil, yes, sir.

(Mr. Kellahin continuing.) Now, turning to Exhibits
Number Four on the two wells could you discuss these exhibits,
that would be the Tubb production curves?

A These are production curves from the history during the last recent years of the Tubb formation, the oil and gas production.

- Q Does that show that the wells are declining?
- A Yes, sir.
- Q. Now, on the basis of the present production, what are the bottom-hole pressures on these wells, do you have any information on that?
- A. In the Brunson now our flowing bottom-hole pressure is calculated. Now, we don't have any measured bottom-hole pressures in these but the Drinkard bottom-hole pressure flowing is calculated to be three hundred and eighty-nine psi and the Tubb flowing bottom-hole pressure is calculated to be three hundred and seventy-two psi.
- What is the production from the wells from those two zones?
- A. The Drinkard is currently producing approximately one barrel of oil and five hundred and ten MCF of gas per day from the Brunson "B" 7 and the Tubb is producing approximately one barrel of oil and two hundred and twenty-one MCF of gas per day.
 - A Have you calculated the stacic bottom-hole pressure

sid morrish reporting service General Court Reporting Service 825 Calle Mejia, No. 122, Santa Fe, New Mexico 87501 Phone (505) 982-9212 on the two zones?

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A Yes, sir, the calculated static bottom-hole pressure in the Drinkard is nine hundred and thirty and the calculated static bottom-hole pressure in the Tubb is eight hundred and seventy-two psi.

- Q. And what is the flowing pressure as you have given it here for the two zones, would there be any danger that fluid or gas would migrate from one zone to the other?
 - A No, sir, I don't believe so.
 - Now, is the ownership in this well common throughout
 - A Yes, sir.
- Q On what basis would you propose to allocate
 production from --

A. We would recommend allocating production, the oil would be fifty percent Drinkard and fifty percent Tubb based on the current tests and the gas based on current tests would be seventy percent to the Drinkard and thirty percent to the Tubb.

- Now, on the State "S" No. 2 Well, what is the production from the two zones there and the pressures?
- A The production from the Drinkard is approximately one barrel of oil and six MCF of gas per day and from the Tubb it's approximately one barrel of oil and thirty-three MCF of gas per day.
 - A Now, what is the flowing tubing pressure on those

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A. The flowing -- here again this is a calculated flowing bottom-hole pressures. The Drinkard is calculated to be seventy-eight psi and the Tubb fifty-nine psi.

- Q And what is the static pressures?
- A The static pressures are calculated to be bottom-hole in the Drinkard five hundred and sixteen psi and the Tubb four hundred and thirty-four psi.
- Now, with those pressures do you feel there is any danger of fluids migrating from one zone to the other in this well?
 - A No, sir.
 - 9 How would you allocate production on this well?
- A. Based on current tests the oil would be split fiftyfifty to each zone and the gas would be fifteen percent to the
 Drinkard and eighty-five percent to the Tubb.
- Q. And that would reflect the results of the current tests of the well?
 - A. Yes.
- Q Now, is the ownership on that well common throughout as to both zones?
 - A. Yes, sir.
- Q. As to both wells it is common as to royalty, overriding royalty and working interest?
 - A. Yes, sir.

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sid morrish reporting service General Court Reporting Service 825 Calle Mejra, Danta Fe, New Mexico 87501 Phone (505) 982-9212

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A Yes, sir.

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- Q Now, referring to what has been marked as Exhibit
 Number Five in each of the cases, would you identify that
 exhibit?
- A. That's the well logs showing the current perforations and it shows the current perforations and well tops on the log.
 - And that is as to each of the wells?
 - A. As to each of the wells, yes, sir.

MR. KELLAHIN: Does the Commission want more than one copy of that log? We have others here.

MR. NUTTER: I think one will be sufficient.

- Q. (Mr. Kellahin continuing.) Now, Mr. Startz, in your opinion will the approval of this application result in the prolonged productive life for these two wells?
 - A Yes, sir, it will prolong it considerably, yes, sir.
- Q Will that result in the recovery of hydrocarbons from each of the wells that would not otherwise be recovered?
 - A Yes, sir, definitely, sir.
- Q And would waste occur, in your opinion, if the application is not approved?
 - A Yes, sir.
- Q. Will the correlative rights of any operator be impaired in any way by approval of this application?

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- () Have there been other commingling cases in this particular area approved by this Commission?
- A. The Brunson "B" No. 3 was approved earlier this year in the same two formations, in the Drinkard and the Tubb.
 - O. Is that in the same section there as the No. 7?
 - A. Yes, it is a west offset to Well No. 7.

 MR. NUTTER: That is the No. 3, you say?
 - A Yes, sir.

MR. NUTTER: What was the order number on that, do you know?

- A No, sir, I don't recall.
 - MR. KELLAHIN: We can get it for you.
- MR. NUTTER: Do you know, Mr. Startz, whether it was by hearing or administrative?
 - A. Hearing.
 - MR. NUTTER: There was a hearing?
 - A Yes, sir.
- MR. NUITER: We can find that. Reference will be made to our files in this case.
- Q (Mr. Kellahin continuing.) Were Exhibits One through Five in each of the cases prepared by you or under your supervision?
 - A. Yes, sir.
 - MR. KELLAHIN: At this time I would like to offer

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the exhibits in the two cases.

MR. NUTTER: Let's see, it's five in each, isn't it?
MR. KELLAHIN: Yes.

MR. NUTTER: Exhibits One through Five will be admitted in Cases Number 5702 and 5703.

(THEREUPON, Exhibits One through Five in each case were admitted into evidence.)

CROSS EXAMINATION

BY MR. NUTTER:

Mr. Startz, are each of these wells classified as a gas well or an oil well in the Tubb formation?

- A. As gas wells, yes, sir.
- Q They are both gas wells?
- A. Yes, sir.

Q Okay, now, what is the size of the proration unit that is assigned to the Brunson No. 7?

A. The Drinkard has a forty-acre allocation and the Tubb has a hundred-and-twenty acres.

- Q Being that Brunson lease?
- A. It's a total of a hundred and sixty, excluding the location of the No. 3 Well. In other words, it is a hundred and twenty acres.
 - Q. For purposes of the Tubb gas pool do you dedicate

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the Arco forty too?

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A Yes, sir, those three forty-acre locations are dedicated to the No. 7 Well.

- Q And that well is classified as a marginal or non-marginal well in the Tubb gas pool?
- A. I believe it is marginal in the Tubb pool. I'm not real sure on that, two hundred and twenty-one MCF per day is the test.
- Q Okay, now, on the State "S", this well is also a gas well in the Tubb gas pool?
 - A. Yes, sir.
- Q And I presume the proration unit that's dedicated to it would be eighty acres, being the south half of the northwest of 15?
 - A That is correct and forty acres to the Drinkard.
 - Q And forty acres to the Drinkard?
 - A. Yes, sir.
- Q And is this unit classified as a marginal or nonmarginal unit?
 - A. Marginal.
- Now, both wells are producing through the annulus at this time as far as the Tubb is concerned, right?
 - A Yes, sir.
- Q. Now, the State "S", you said you think probably has a leak in the tubing suring, how do you propose to continue

to produce this, produce as much as it will make out of the annulus and also produce from the tubing?

A Yes, sir.

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- Q Without disturbing the tubing or setting a packer?
- A Yes, sir.
- And you would handle the other well the same way then?
 - A Yes.
 - Q Use the annulus and the tubing?
 - A. Yes, sir.

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

(THEREUPON, the witness was excused.)

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

MR. KELLAHIN: That's all we have, Mr. Nutter.

MR. NUTTER: Mr. Carr, do you have anything?

MR. CARR: Mr. Examiner, we have received a letter from Mobil Oil Corporation concerning the application in Case 5702. The letter is signed by J. A. Morris, Regulatory Engineering Supervisor, and reads in part: (Reading.) Recent wellhead shut-in pressure tests indicate that there could be as much as three hundred pounds per square inch differential existing between the zones proposed to be commingled. If this differential is found to exist in the well of this

ć

application we believe that the subject of the request for downhole commingling should be denied. (End of reading.)

MR. NUTTER: Thank you.

MR. KELLAHIN: If the Examiner please, I don't think the letter makes reference to any particular test and we don't know what test he is talking about. We haven't been able to find that that shows such a pressure differential.

MR. NUTTER: Okay, Mr. Kellahin, he says a recent test run on Mobil's lease indicates that there could be as much as a three hundred psi differential existing between the zones. If this differential is found to exist in the well of this application he objects and should be denied.

Now, Mr. Startz, you are back under oath.

RECROSS EXAMINATION

BY MR. NUTTER:

On the tests on their Brunson-Argo lease and they say if this kind of a differential is found on your lease, this subject well being the Brunson "B" No. 7, that your application should be denied. Do you find a three hundred pound differential on your lease?

A. No, sir, we don't find this now. We haven't measured the bottom-hole pressures but based on all of our available information we don't find this kind of pressure.

Now, you stated that you had a calculated flowing
bottom-hole pressure on the Brunson "B" No. 7, which is the
well that Mobil is talking about, you stated you had a
calculated flowing bottom-hole pressure in the Tubb of three,
seventy-two and a flowing bottom-hole pressure calculated
in the Drinkard at three, eighty-nine, so there isn't
apparently any three hundred pound differential there, is
there?

- A No, sir.
- And you stated that your calculated static bottomhole pressure in the Tubb on that well was eight, seventy-two and your calculated static on the Drinkard was nine, thirty, so is there any three hundred pound differential there?
 - A No, sir.
- Q Okay, how did you arrive at these calculated pressures, both flowing and static?
- A This is a computer equation and calculation our reservoir engineer has set up based on the surface pressures and the fluid GOR's and specific gravities and things of this nature. They are all considered and this is the way we calculate these.
- Q. Okay, this is surface tubing pressure calculated down to the perforated interval or to the datum?
 - A. Yes, sir, to the mid perfs.
 - Q In each zore? Now, these aren't both taken to a

common datum then?

- A. No, sir, these are to the mid perfs.
- Q. The perforation in the Tubb is to the mid perfs of the Tubb?
 - A Yes, sir.
- Q Of the calculation and the bottom-hole pressure calculation for the Drinkard is to the mid perfs of the Drinkard zone?
 - A Yes, sir.
- Q. And that is calculated from flowing tubing pressure and from shut-in tubing pressure?
 - A Yes, sir.
- Q How long were your wells shut in in order to obtain your shut-in pressure?
- A. It was forty-eight hours on the shut-in tubing pressures and, of course, the flowing I really don't know how long those were.

MR. NUTTER: Okay, does anyone else have anything they wish to offer in Cases Number 5702 or 5703? We will take the cases under advisement.

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REPORTER'S CERTIFICATE

I, SIDNEY F. MCRRISH, a Cortified Shorthand 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.

Sidney F. Morrish, C.S.R.

I do hereby certify that the foregoing is a complete rad in of the proseedings in the English hearing of Casesho 272-5703 heard by me on 2/7 1976.

New Mexico Oil Conservation Commission



OIL CONSERVATION COMMISSION

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

LAND COMMISSIONER PHIL R. LUCERO



EMERY C. ARNOLD

DIRECTOR JOE D. RAMEY August 12, 1976

	Re:			
Mr. Jason Kellahin		ORDER NO	R-5254	
Kellahin & Fox Attorneys at Law Post Office Box 1769 Santa Fe, New Mexico		Applicant:		
		Cities Se	rvice Oil	Company
Dear Sir:				
Enclosed herewith are to Commission order recent		<u> </u>		
Yours very truly, JOE D. RAMEY Director			·	
JDR/fd				
Copy of order also sent	to:	•		
Hobbs OCC x				\
Artesia OCC				
Aztec OCC				
Other				

BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

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

> CASE NO. 5703 Order No. R-5254

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

ORDER OF THE COMMISSION

BY THE COMMISSION:

H

This cause came on for hearing at 9 a.m. on July 7, 1976, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this <u>llth</u> day of August, 1976, 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, Cities Service Oil Company, is the owner and operator of the State "S" Well No. 2, located in Unit F of Section 15, Township 21 South, Range 37 East, NMPM, Lea County, New Mexico.
- (3) That the applicant seeks authority to commingle Tubb Gas Pool and Drinkard Oil Pool production within the wellbore of the above-described well.
- (4) That from the Tubb zone, the subject well is capable of low marginal production only.
- (5) That from the Drinkard zone, the subject well is capable of low marginal production only.
- (6) That the proposed commingling may result in the recovery of additional hydrocarbons from each of the subject pools, thereby preventing waste, and will not violate correlative rights.
- (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 well is not shut-in for an extended period.

-2-Case No. 5703 Order No. R-5254

- (8) That to afford the Commission the opportunity to assess the potential for waste and to expeditiously order appropriate remedial action, the operator should notify the Hobb's district office of the Commission any time the subject well is shut-in for 7 consecutive days.
- (9) That in order to allocate the commingled production to each of the commingled zones in the subject well, 85 percent of the commingled gas production should be allocated to the Tubb zone and 15 percent to the Drinkard, and 50 percent of the commingled oil production should be allocated to the Tubb zone and 50 percent to the Drinkard zone.

IT IS THEREFORE ORDERED:

- (1) That the applicant, Cities Service Oil Company, is hereby authorized to commingle Tubb Gas Pool and Drinkard Oil Pool production within the wellbore of the State "S" Well No. 2, located in Unit F of Section 15, Township 21 South, Range 37 East, NMPM, Lea County, New Mexico.
- (2) That 85 percent of the commingled gas production shall be allocated to the Tubb zone and 15 percent to the Drinkard, and 50 percent of the commingled oil production shall be allocated to the Tubb zone and 50 percent to the Drinkard zone.
- (3) That the operator of the subject well shall immediately notify the Commission's Hobb's district office any time the well has been shut-in for 7 consecutive days and shall concurrently present, to the Commission, a plan for remedial action.
- (4) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

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

SEAL

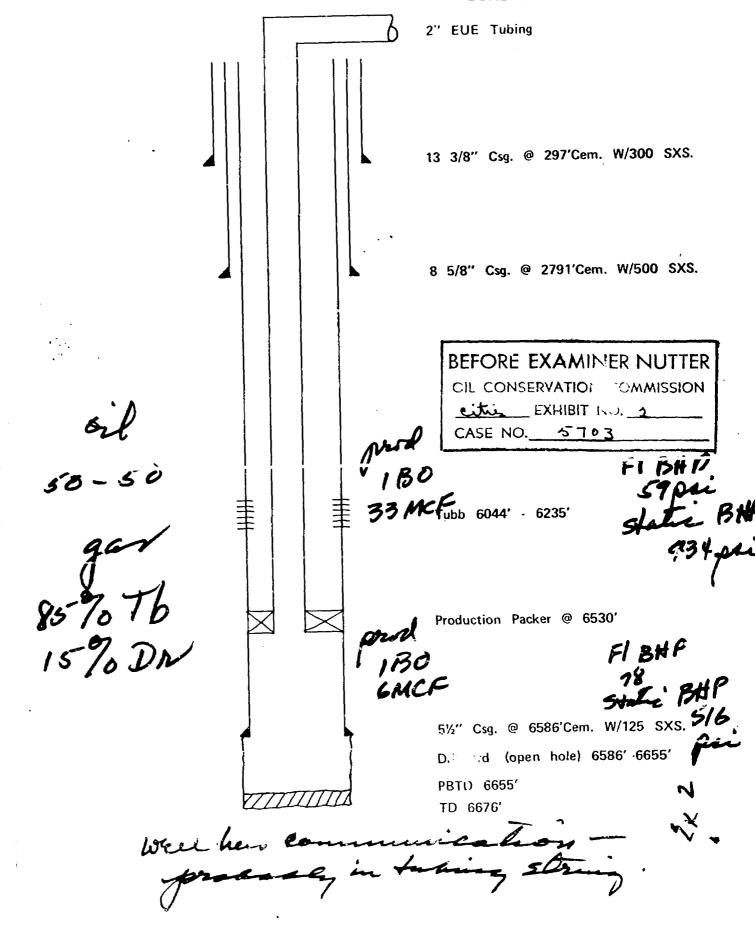
STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

PHIL R. LUCERO, chairman

ERY C. ARNOLD, Member

TOE B. RAMEY, Member & Secretary

CITIES SERVICE OIL CO. STATE-S No. 2 CURRENT DRINKARD-TUBB **DUAL COMPLETION**



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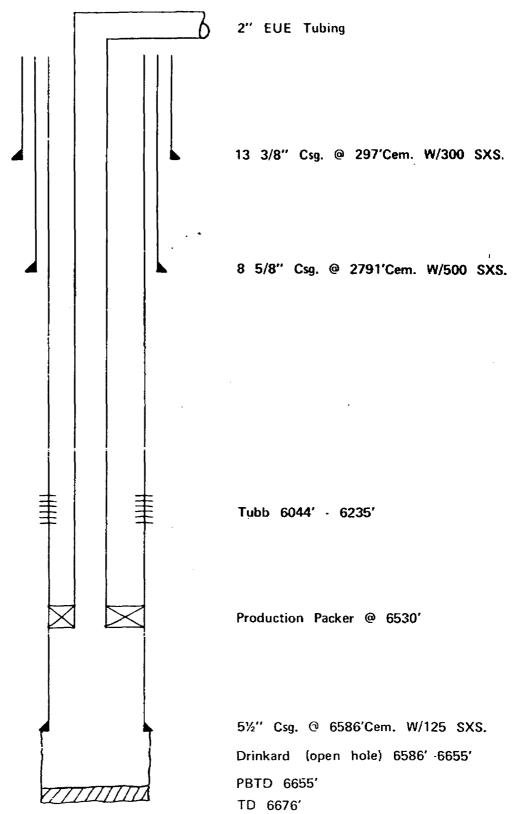
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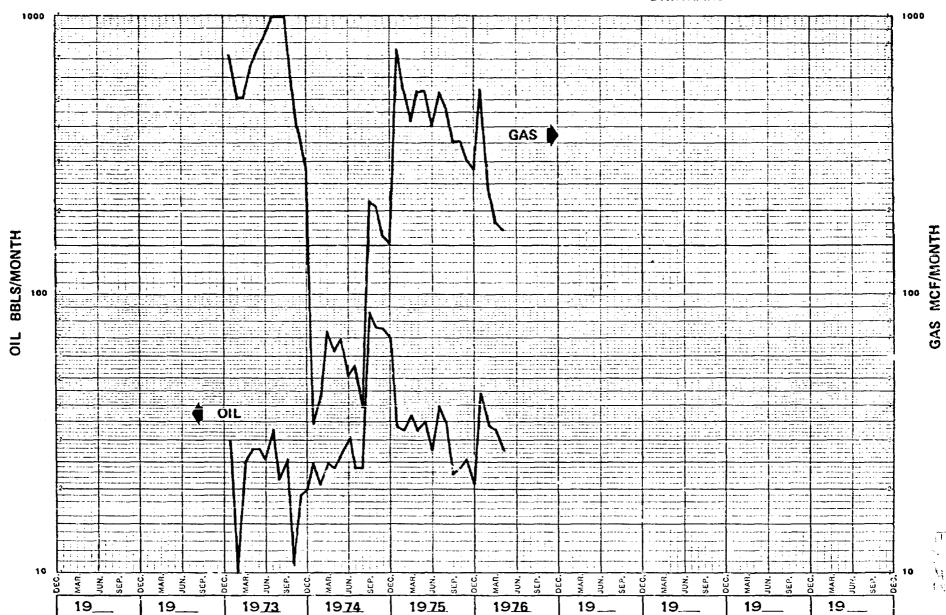
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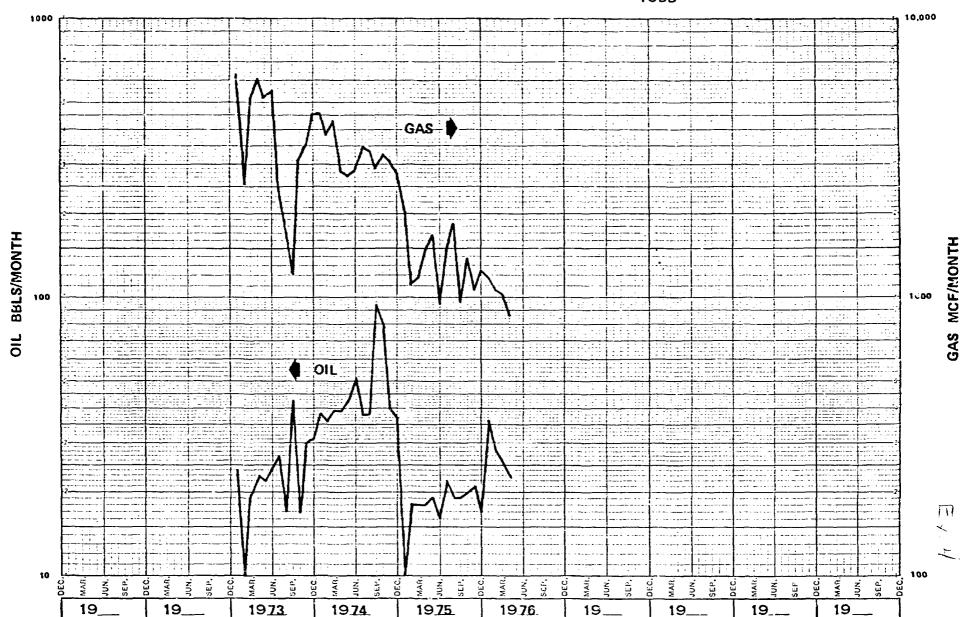
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CITIES SERVICE OIL CO. STATE-S No. 2 CURRENT DRINKARD-TUBB DUAL COMPLETION







CASE 5703: Application of Cities Service Oil Company for downhole commingling, Lea County, New Mexico.

Applicant, in the above-styled cause, seeks authority to commingle Tubb Gas Pool and Drinkard
Oil Pool production in the wellhore of its State "S" Well No. 2, located in Unit F of Section 15,
Township 21 Couth, Fange 37 East, Lea County, New Mexico.

CASE 5692: (Reopened & Readvertised)

Application of Cities Service Oil Company for a dual completion and downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion (conventional) of its Owen "A" Well No. 1 located in Unit P of Section 35, Township 21 South, Range 37 East, Lea County, New Mexico, completing said well in such a manner as to commingle Blinebry and Drinkard oil production and to dually complete said zones with the Wantz-Granite

Application of Hanson Gil Corporation for a dual completion and downhole commingling, Lea County, CASE 5711: New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion (conventional) of its Max Gutman Well No. 7 located in Unit D of Section 19, Township 22 South, Range 38 East, Lea County, New Mexico, in such a manner as to commingle Blinebry and Tubb Pool oil and gas production and to dually complete said zones with the Drinkard Pool.

Docket No. 20-76

Dockets Nos. 21-76 and 22-76 are tentatively set for hearing on August 4 and August 18, 1976. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: COMMISSION HEARING - WEDNESDAY - JULY 14, 1976

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

CASE 5712: In the matter of the hearing called by the Oil Conservation Commission upon its own motion to permit all interested parties to appear and show cause why the San Juan 30-4 Unit Area in Townships 30 and 31 North, Range 4 West, Rio Arriba County, New Mexico, should not be contracted by the deletion of all lands not presently within an approved participating area or which cannot be expected to be in such participating area within the reasonably foreseeable future as the result of commercial production being developed thereon.

CASE 5713: In the matter of the hearing called by the Oil Conservation Commission on its own motion to permit Agua, Inc., and all ther interested parties to appear and show cause why Agua. Inc. should be name salt water disposal into the San Andres formation in its SWD Well No. H-35 located in Unit H of Section 35, Township 22 South, Pange 37 East, Lea County, New Mexico.

CASE 5714: Application of Agua, Inc. for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks permanent authority to dispose of produced salt water into the San Andres formation through the perforated interval from 4230 feet to 4320 feet below the surface and into the open-hole interval from 4400 feet to 5000 feet in its SWD Well No. C-2 located in Unit C of Section 2, Township 22 South, Range 37 East, Lea County, New Mexico.

CASE 5703:

Application of Cities Service Oil Company for downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to commingle Tubb Cas Pool and Drinkard Oil Pool production in the wellbore of its State "S" Well No. 2 located in Unit F of Section 15, Township 21 South, Range 37 East, Lea County, New Mexico.

CASE 5670:

(Continued from June 9, 1976 Examiner Houring)

Application of Read & Stevens, Inc. for an unorthodox location and directional drilling, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks authority to deviate its Marris-Federal Well No. 3, the surface location of which is 650 feet from the South line and 1930 feet from the Mast line of Section 27, Township 15 South, Mange 28 East, Chaves County, New Mexico, by directionally drilling said well from a kick-off point at approximately 6000 feet and bottoming it at an unorthodox location in the Pennsylvanian formation within 250 feet of a point 990 feet from the South line and 1650 feet from the East line of said Section 27, the S/2 of the Section to be dedicated to the well.

misabvertised in the hew Mexican; readv. for July ? MELLAHIN AND FOX
ATTORNEYS AT LAW
BOO DON GASPAR AVENUE
POST OFFICE BOX 1769
SANTA FE, NEW MEXICO B7501

JASON W. KELLAHIN ROBERT E. FOX W. THOMAS KELLAHIN

May 21, 1976

TELEPHONE 982-4315 AREA CODE 505

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

> Re: State "S" Well No. 2 Sec. 15, T21S, R37E, NMPM Lea County, New Mexico

Dear Bill:

Please accept for filing the enclosed application on behalf or Cities Service Oil Company for downhole commingling of production in the above referenced well.

Please set this matter for hearing at the next available examiner hearing on June 23, 1976.

Very truly yours,

W. Thomas Kellahin

CC: Mr. E. F. Motter

WTK:kjf

Enclosure

BEFORE THE

OIL CONSERVATION COMMISSION OF NEW MEXICO

IN THE MATTER OF THE APPLICATION OF CITIES SERVICE OIL COMPANY FOR DOWNHOLE COMMINGLING, LEA COUNTY, NEW MEXICO.

APPLICATION

COMES NOW CITIES SERVICE OIL COMPANY and applies to the Oil Conservation Commission of New Mexico for approval of downhole commingling in its State "S" No. 2 well Jocated 1980 feet from the North line and 1980 feet from the West line of Section 15, Township 21 South, Range 37 East, N.M.P.M., Lea County, New Mexico and in support thereof would show the Commission:

- 1. The subject well was completed as a dual completion producing from the Tubb Gas Pool and the the Drinkard Pool.
- 2. Subsequent to completion the well has experienced a packer leakage problem which is not economical to repair.
- 3. Applicant desires to produce the well as a downhole commingling of the Tubb and Drinkard production.
- 4. Approval of this application will result in the production of hydrocarbons that would not otherwise be produced, will prevent waste, and will not cause any damage to either the Drinkard or Tubb formations. Correlative rights including those of offset operators will not be impaired.

WHEREFORE applicant prays that this application be set

for hearing before the Commission's duly appointed examiner, and that after notice and hearing as provided by law, the Commission enter its order approving commingling as prayed for.

Respectfully submitted,

CITIES SERVICE OIL COMPANY

KELLAHIN & FOX
P. O. Box 1769
Santa Fe, New Mexico 87501

Attorneys for Applicant

BEFORE THE

OIL CONSERVATION COMMISSION OF NEW MEXICO

IN THE MATTER OF THE APPLICATION OF CITIES SERVICE OIL COMPANY FOR DOWNHOLE COMMINGLING, LEA COUNTY, NEW MEXICO.

APPLICATION

COMES NOW CITIES SERVICE OIL COMPANY and applies to the Oil Conservation Commission of New Mexico for approval of downhole commingling in its State "S" No. 2 well located 1980 feet from the North line and 1980 feet from the West line of Section 15, Township 21 South, Range 37 East, N.M.P.M., Lea County, New Mexico and in support thereof would show the Commission:

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Respectfully submitted,

CITIES SERVICE OIL COMPANY

KELLAHIN & FOX

P. O. Box 1769 Santa Fe, New Mexico 87501

Attorneys for Applicant

BEFORE THE

OIL CONSERVATION COMMISSION OF NEW MEXICO

IN THE MATTER OF THE APPLICATION OF CITIES SERVICE OIL COMPANY FOR DOWNHOLE COMMINGLING, LEA COUNTY, NEW MEXICO.

APPLICATION

COMES NOW CITIES SERVICE OIL COMPANY and applies to the Oil Conservation Commission of New Mexico for approval of downhole commingling in its State "S" No. 2 well located 1980 feet from the North line and 1980 feet from the West line of Section 15, Township 21 South, Range 37 East, N.M.P.M., Lea County, New Mexico and in support thereof would show the Commission:

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Respectfully submitted,

CITIES SERVICE OIL COMPANY

KELLAHIN & FOX
P. O. Box 1769
Santa Fe, New Mexico 87501

Attorneys for Applicant

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sid morrish reporting service

General Court Reporting Service
825 Calle Mejia, No. 122, Sana Fe, New Mexico 87501
Phone (505) 982-9212

BEFORE THE NEW MEXICO OIL CONSERVATION COMMISSION Santa Fe, New Mexico June 23, 1976

EXAMINER HEARING

IN THE MATTER OF:

Application of Cities Service Oil
Company for downhole commingling, Lea

5703

County, New Mexico.

BFFORE: Richard L. Stamets, Examiner

TRANSCRIPT OF HEARING

APPEARANCES

For the New Mexico Oil William F. Carr, Esq.
Conservation Commission: Legal Counsel for the Commission
State Land Office Building
Santa Fe, New Mexico

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sid morrish reporting service

General Court Reporting Service
825 Calle Mejia, No. 122, Santa Fe, New Mexico 87501
Phone (505) 982-9212

MR. STAMETS: We will call next Case 5703.

MR. CARR: Case 5703, application of Cities Service Oil Company for downhole commingling, Lea County, New Mexico.

Mr. Examiner, due to an error in the advertisement the case should be continued to the July 7th Examiner Hearing.

MR. STAMETS: Case 5703 will be continued.

Page	3

REPORTER'S CERTIFICATE

I, SIDNEY F. MORRISH, a Certified Shorthand 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.

Sidney F. Morrish, C.S.R.

sid morrish reporting service
General Court Reporting Service
825 Calle Mejia, No. 122, Santa Fc, New Mexico 87501
Phone (505) 982-9212

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 5703, heard by he on 6-23, 1926.

New Mexico Oil Conservation Commission

r

BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

dr/

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

ROP

THE PURPOSE OF CONSIDERING:
CASE NO. 5703
Order No. R- 5254
APPLICATION OF CITIES SERVICE OIL COMPANY
FOR DOWNHOLE COMMINGLING, LEA
COUNTY, NEW MEXICO.
ORDER OF THE COMMISSION
BY THE COMMISSION:
This cause came on for hearing at 9 a.m. on July 7
19 76, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.
NOW, on this day of July , 1976 , 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,Cities Service Oil Company, is the
owner and operator of the State "S" Well No. 2 , located
in Unit F of Section 15 , Township 21 South , Range
37 East , NMPM, Lea County, New Mexico.
(3) That the applicant seeks authority to commingle
Tubb Gas Pool and Drinkard Oil Pool production
within the wellbore of the above-described well.
(4) That from the Tubb zone, the
subject well is capable of low marginal production only.
(5) That from the zone, the
subject well is capable of low marginal production only.
(6) That the proposed commingling may result in the recovery

of additional hydrocarbons from each of the subject pools, thereby

preventing waste, and will not violate correlative rights.

-2-			
Case	No.		
Order	No.	R-	

- (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 well is not shut-in for an extended period.
- (8) That to afford the Commission the opportunity to assess the potential for waste and to expeditiously order appropriate remedial action, the operator should notify the Hobb's district office of the Commission any time the subject well is shut-in for 7 consecutive days.
- (9) That in order to allocate the commingled production to each of the commingled zones in the subject well, 85

 percent of the commingled gas production should be allocated to the Tubb and 15 percent to the Drinkard, to the zone, and 50 percent of the commingled cil production to the Brinkard Taken zone and, 50 percent to the Drinkard Taken zone and, 50 percent to the Drinkard

IT IS THEREFORE ORDERED:

- (1) That the applicant, Cities Service Oil Company, is hereby authorized to commingle Tubb Gas Pool and Drinkard Oil Pool production within the wellbore of the State "S" Well No. 2, located in Unit F of Section 15, Township 21 South, Range 37

 East, NMPM, Lea County, New Mexico.
- production shall be allocated to the <u>Tubb</u>

 zone and <u>15 percent</u> to the <u>Drinkard</u>, percent of the commingled

 oil production shall be allocated to the <u>Drinkard</u> Tube

 3one and 50 purchase to the <u>Drinkard</u> Tube
- (3) That the operator of the subject well shall immediately notify the Commission's Hobb's district office any time the well has been shut-in for 7 consecutive days and shall concurrently present, to the Commission, a plan for remedial action.
- (4) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DOUB at Santa Pe, New Mexico, on the day and year hereinabove designatel.