CASE 4065: Appli. of HUMBLE FOR UNORTHODOX OIL WELL LOCATION & RECLASSIFICATION OF A WATER WELL TO AN OIL WELL.

-idse Number

Application Transcripts.

Small Exhibits

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1120 SIMMS BIDG. . P. O. BOX 1092 . PHONE 243.6691 . AIBUQUERQUE, NEW MEXICO

BEFORE THE NEW MEXICO OIL CONSERVATION COMMISSION Santa Fe, New Mexico March 4, 1970

EXAMINER HEARING

IN THE MATTER OF:

Case No. 4065 being reopened) pursuant to the provisions of) Order No. R 3706, which order) established 80-acre spacing units for the South Eunice-San) Andres Pool, Lea County, New) Mexico, for a period of one) year.

CASE NUMBER

4065

BEFORE:

DANIEL S. NUTTER, Examiner



TRANSCRIPT OF HEARING

MR. HATCH: The Hearing will come to order, please.

MR. NUTTER: For the benefit of anyone that may be interested, Case 4318 will be heard later today and we will start this morning with Case 4065.

MR. HATCH: In the matter of Case No. 4065 being reopened pursuant to the provisions of Order No. R-3706, which order established 80-acre spacing units for the South Eunice-San Andres Pool, Lea County, New Mexico, for a period of one year.

MR. HINKLE: Clarence Hinkle, Hinkle, Bondurant and Christy, Roswell, representing Humble. We have one witness I would like to have sworn.

(Witness sworn.)

A. L. CARPENTER

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

DIRECT EXAMINATION

BY MR. HINKLE:

- Q Will you state your name?
- A A. L. Carpenter.
- Q By whom employed?
- A Humble Oil and Refining Company.

- Q What capacity?
- A District Chief Engineer.
- Q Have you ever testified before the Commission?
- A Yes, sir.
- Q And qualified as an engineer?
- A Yes, sir.
- Q Are your qualifications a matter of record with the Commission?
 - A Yes, sir.
- Q Did you testify previously in connection with Case Number 4065 about a year ago?
 - A Yes, sir. I was a witness.
- 9 Have you prepared or has there been prepared under your direction certain exhibits for introduction in this case?
 - A Yes, sir.

(Whereupon, Exhibit Number 1 was marked for identification.)

Q Refer to Exhibit Number 1 and explain what this is and what it shows.

A Exhibit Number 1 is a map or a plat depicting the subject area which is almost in the center of the Paddock-San Angelo Unit, the unit parameter shown in green and the subject New Mexico "S" State Water Source Well Number 4

encircled in red. And this plat also shows the three oil venture attempts that were made since last year.

What did Order Number R-3706 in Case 4065 provide?

A Well, it provided for reclassification of the New Mexico "S" State Water Source Well Number 4 which is located 175 feet from the south line, 650 feet from the west line, Section 2, Township 22 South, Range 37 East, Lea County, New Mexico. It provided for its reclassification.

Q Why was it necessary to reclassify it?

A Well, we drilled it as a water source well for the double 80-acre five spot Paddock waterflood pilot. We did need to reclassify it as an oil well so that we could produce the oil that accompanied the water. We also asked for an exception to Rule 104 for an unorthodox location. We asked for the establishment of special pool rules including 80-acre spacing, allowables and proration units and a discovery allowable for this subject water well. The 80-acre proration units were requested to run east-west with two per quarter section, that is, the north half and the south half of each quarter section would be an 80-acre proration unit. And we also asked that the operators be allowed to drill in either 40-acre tract of each 80-acre east-west proration unit with wells being located no closer than 330 feet from any 40-acre tract

boundary. And as counselor had said awhile ago, the Commission did grant this by Order R-3706.

Q Has this well proved sufficient to provide water for your Paddock unit?

A Yes, providing the oil allowable is sufficient enough to prevent curtailment of its water production.

Q What do you mean by that, "curtailment of its water production"?

A Well, since it's been reclassified as an oil well, you have to look to the allowable in regard to its classification and this well is capable of 6,000 barrels of water a day for the pilot flood, but along with this water, it also produced about 100 barrels of oil a day, which was just a little over one per cent oil. Now, early high pressures in the northeast injectors in the pilot made it necessary for us to reduce injection until we get this proglem solved. But the well still produced more than 80 barrels of oil a day even at half of the desired injection rate.

Q So, you have a problem as far as overproduction in allowable is concerned?

A Yes, sir. If it is not kept on an 80-acre allowable.

Q Have you tried to eliminate the oil production

from this well?

A Yes, sir. We made two --- we spent \$20,000 attempting to squeeze the oil off on two separate attempts.

In your opinion, would you have to continue to produce the oil to get the water that's necessary for the waterflood?

A Yes, sir, sare will.

Q Who owns the oil in this case, was it the unit well or is it owned individually by Humble?

A Well, the original water rights were obtained from the State Engineer under CP-427 in the name of the unit, but the reservoir is not unitized. It's Humble's reservoir, but due to the fact this expensive well was drilled to supply water for the waterflood, we saw fit to give this oil production to the unit and it is being credited to the working interest owners in the Paddock unit, although the reservoir is not yet tied in.

Q Has Humble done any further exploratory work in the area, as far as this zone is concerned?

A Yes, sir. We spent \$43,300 drilling and testing New Mexico "S" State 26. If you will refer to the plat, you can see it's a direct north offset to the water source well. Shall I read the location to you?

- Q Yes. Go ahead.
- A It's located 2310 from the south line and 400 feet from the west line of Section 2, Township 22 South, Range 37 East.
- Q Was this successful in completing it as an oil well?
- A No, sir. We selectively perforated, stimulated and tested four different intervals above the top zone in our water source well 4, but we were unable to make a commercial completion. Using conventional artificial means, we were able to pump in the range of 300 barrels of fuel per day, but it was only three per cent oil. We have since converted this well to salt water disposal service to handle the non-unit Humble production from the other reservoirs on this lease.
 - Q It's a dry hole, as far as oil is concerned?
 - A Yes.
 - Q Has Humble drilled any other wells in this pool?
 - A Humble hasn't.
 - Q Have any of the other companies?
- A Yes, sir. Two of them have. Cities Service had a similar unsuccessful experience to ours on our "S"-26 on their-

- Q Where is it located, "C"-9?
- A Which is located 1880 feet from the south line and 1980 feet from the east line on their Brunson, Section 3, Township 22 South, Range 37 East. This makes it a direct west offset to our "S"-26. As of yesterday morning, they had just set a bridge plug. They set a bridge plug just above the top of the San Andres and they're studding the upper horizon.
 - Q So, that's a dry hole, also?
 - A Yes, sir, in the San Andres.
 - Q What other wells have been drilled?
- A Anadarko has just completed their Wortham "B"-3. It is located 330 feet from the north line and 2310 feet from the east line of Section 11, Township 22 South, Range 37 East, which makes it a direct east offset to our water source well number 4, and they set seven-inch casing and are lifting it with a Reda pump. On initial potential, it pumped 188 barrels of oil plus 912 barrels of water.
- Q What performance have you had in connection with the Humble water well and oil well?
- A Well, since completion, it's produced 28,700 barrels of oil and 16,612,000 cubic feet of gas which is being credited to the Paddock Unit, although this reservoir is not

unitized, along with 707,900 barrels of water for injection into the Paddock Unit double, 80-acre five spot waterflood pilot. This cumulative fluid production of 736,590 barrels amount to 3.9 per cent oil with an overall gas-oil ratio of 579 cubic feet per barrel, and a gas-fluid ratio of only twenty-three cubic feet per barrel.

Q From an engineering standpoint, what does this indicate to you?

A Well, it indicates to me that the movable oil saturation in this well's completion intervals approximates only about four per cent and that most probably this well is draining much more than forty acres. Coupled with the conventional oil development attempts to the north by Humble and to the west by Cities Service, it indicates that the area of commercial oil development in the vicinity of Water Source Well 4 will be extremely limited if there is any at all.

Q What do you mean by "limited"?

A Well, admittedly, Anadarko's Wortham "B"-3 potentialed at about seventeen per cent oil which is way above the current top 80-acre allowable of 144 barrels per day. But they had to set seven-inch casing so they could lift it with a Reda pump. This ran their well cost up, I would estimate, to relatively twice as much as our attempted completion, and

their lifting cost, I think, will be extremely high. Further, they're going to have the additional expense of disposing of 900 barrels of water per day back into the basal San Andres in their Walden 4 which is almost two miles south southwest of their producer.

It's not shown on the map, but it's right in the corner of the map there in that southwest quarter. It's in the northeast quarter of the southwest quarter of Section 15. They are putting their water in below 4100 which we think is real good operational procedure.

- Q You indicate, then, that it is normally going to cost more to drill and complete these wells than it would normally a well in the San Andres on 40 acres?
 - A Yes, sir.
 - Q You might explain that further.
- A Historically speaking, including the installation of a Coalescer and an up-flow filter to adequately remove the oil from our source water so that it will not plug our injection wells, the drilling and equipment of our water source has cost \$154,400 so far. The power charges along with repairs to the Reda, have our operating expenses at \$25,100. This amounts to \$2,100 per month or \$70 a day which is about fourteen times greater than the operating expenses of a normal

San Andres oil well lift conventionally at this depth.

They run about \$1700 a year or about \$140 a month or \$5 a day, and a conventional normal San Andres oil well has a top allowable this month of about seventy-two barrels of oil a day usually with minimal salt water disposal costs.

So, you can see if our goal was not producing this water for the waterflood, this well's operation would be a very poor business operation.

(Whereupon, Exhibit Number 2 was marked for identification.)

Q Now, refer to Exhibit Number 2 and explain what this is and what it shows.

A Exhibit 2 is a log showing the San Andres section in the subject water well and it also shows the carefully selected perforated interval and stimulation stages. And if you will note the top three intervals, it shows that they were also squeezed twice in an attempt to get rid of the oil out of this well.

Q Where, in your opinion, is the oil coming from that you are producing in this well?

A Well, based on some very recent work by their operators, there seems to be a real good chance that most of

it is coming out of the top two sections that were squeezed off twice and may be the porosity interval above that right about 4,000 feet which we didn't perforate in this well.

But we did perforate in "S"-26 and we recovered more oil out of it, even though it wasn't commercial, we got more oil out of that zone, anyway. And I think Anadarko pretty well bracketed those intervals in their well.

(Whereupon, Exhibit Number 3 was marked for identification.)

- Q Now, refer to Exhibit 3 and explain that.
- A That is a log section on our New Mexico "S" State 26 showing the San Andres intervals. It shows the four zones that were perforated, stimulated and tested.

(Whereupon, Exhibit Number 4 was marked for identification.)

Q Now, refer to Exhibit 4 and explain what this is and what it shows.

A Exhibit 4 is a tabulation on our company form showing the production history on this well since completion.

Along the bottom line where we estimated February, you will note that over in the cumulative columns the 28,780 barrels of oil is 3.9 per cent oil relative to the total volume produced. The bottom, about the bottom third of that

exhibit tabulates this investment cost as well as the operating expense data that I just got through talking about.

Q In your opinion, from your study of this area, the testimony that you have given, will one well effectively and efficiently drain 80 acres in this area?

A Yes, sir.

Q In your opinion, is it economically feasible to develop this area on 40-acre spacing?

A No, sir.

Q What is your recommendation to the Commission with respect to continuing these rules?

A Well, on the basis of my testimony and our need for the water to implement the \$10,000,000 Paddock Unit waterflood, I hope I have shown cause why 80-acre spacing units and Rule 6 of Order Number R-3706 should be adopted permanently.

Q You recommend, in other words, that the temporary rules be made permanent?

A Yes, sir.

MR. HINKLE: We would like to offer in evidence Exhibits 1 through 4.

MR. NUTTER: Applicant's exhibits 1 through 4 will be admitted in evidence.

(Whereupon, Exhibit Numbers 1 through 4 were offered and admitted in evidence.)

MR. HINKLE: That's all we have.

CROSS-EXAMINATION

BY MR. NUTTER:

- Q Mr. Carpenter.
- A Yes, sir.
- Q You are still operating the pilot injection project in this unit?
 - A Yes, sir.
- Q How many wells are included in that pilot as injection wells?
 - A Six.
- Q Is it about time to expand the pilot or do you have any plans for expansion of it?
- A No, sir. At the 600-barrel-a-day injection rate our calculations indicate that it would take four years to get fillup and it was agreed in the document that we would definitely evaluate the pilot before we expanded the floor because the San Angelo has never been successfully flooded anywhere and it is a pretty sticky assignment and that's the reason it took thirteen years to put it together.
 - Q So, in other words, you are still in the initial

stages of attempting fill-up?

A Yes, sir.

And you will be producing this amount of water from this water supply well for at least three more years in order to get fill-up?

Yes, sir. Longer than that, at the rate. Right now we are at half rate and we have been there about a year and we hope to have the problem solved within the next two or three months, so it will be three years when we get the problem solved.

In the meantime, you will be needing some water produced from this well? A

Yes.

MR. NUTTER: Are there any further questions of the witness: He may be excused.

(Witness excused.)

MR. NUTTER: Does anyone have anything they wish to offer in Case 4065?

MR. KELLAHIN: Jason Kellahin, Kellahin and Fox, Santa Fe, and appearing for Anadarko Production Company. We have one witness we would like to put on.

(Whereupon, Anadarko's Exhibit Number 1 was marked for identification.

(Witness sworn.)

C. W. STUMPHOFFER

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

DIRECT EXAMINATION

BY MR. KELLAHIN:

- Q Would you state your name, please?
- A C. W. Stumphoffer.
- Q By whom are you employed and in what position, Mr. Stumphoffer?
- A I am employed by Anadarko Production Company,

 Fort Worth, Texas, as Superintendent of the Secondary Recovery

 Division.
- Q Have you ever testified before the Oil Conservation Commission and made your qualifications a matter of record?
 - A Yes, I have.
- Q Are you familiar with the establishment of the South Eunice-San Andres field and the temporary field rules that were established for that field by the Oil Commission Order Number R-3706?
 - A Yes, I am.
- Q Now, referring to what has been marked as Anadarko's Exhibit Number 1, would you identify that exhibit?
 - A Exhibit Number 1 is a map of the South Eunice-

San Andres field area showing all the San Andres tests that have been drilled and completed to date.

- Q How are the San Andres tests shown on this exhibit?
- A The San Andres tests are shown with a triangle around the well location.
- Q Now, has Anadarko Production Company completed any wells in the San Andres field?

A Yes, we have. We have drilled and completed two wells in the South Eunice-San Andres field. They are Hugh Number 13, located in the northwest quarter of the northwest quarter of Section 14, Township 22 South, Range 37 East, that was completed during October of 1969, with a potential of forty-five barrels of oil per day, 1300 barrels of water per day, with a GOR of 3335 to one.

Wortham "B"-3 was our second well, located in the northwest quarter of northeast of Section 11, Township 22 South, Range 37 East, completed during February of 1970, with a potential of 188 barrels of oil per day, 912 barrels of water per day, with a producing GOR of 1915 to one.

- Q What is the present status of these two wells?
- A Hugh Number 13 has been temporarily abandoned, after producing less than 1,000 barrels of oil. Production rates from this well rapidly declined below the economic limit

with total fluid production at the rate of approximately 500 barrels per day, with a three to four per cent oil cut at the time of abandonment.

Wortham "B"-3 is just now being placed on production.

Q What is the cost to drill and equip a well in this reservoir?

A Approximately \$90,000 which is primarily due to the need for larger diameter casing and high volume artificial lift equipment.

Q What is the cost of operation for a well of this type?

A Approximately \$1500 per month, which is primarily due to the high cost of operating the submergible Reda pump, the high cost of maintenance of this type of pump and the cost of salt water disposal into the Well Number 4 located in the northeast of the southwest of Section 15, 22 South, 37 East.

Q That's the same well as to which Humble's witness testified, is that correct?

A Yes.

Q How much area do you feel is productive from the San Andres in this reservoir?

A We feel that the commercially recoverable oil from the San Andres in this field will be confined to a relatively small area around Humble's water supply well Number 4 on their New Mexico State "S" lease and Anadarko-Wortham "B" number 3.

These two wells are structurally higher than other wells that tested the San Andres and from what information we have, this structural position apparently has an effect on the porosity development in the San Andres.

- Q Do you feel that 80-acre spacing in this field will adequately drain this reservoir?
- A We feel that in view of the reservoir conditions and the producing characteristics of the reservoir, it will recover the maximum amount of economic oil.
- Q Didn't Anadarko Production Company apply for and receive an exception to the pool rules in order to dedicate forty acres to their Wortham "B" number 3 well?
- A Yes, we did. This was a temporary measure so that we could comply with the field rules to lay the 80-acre proration units in an east and west direction. We are proceeding with some unitization work and the 40-acre allowable was requested so that we could produce the well on a temporary basis.

You are in the process of communitizing an 80-acre

We are in the process of communitizing the northeast unit, is that correct? quarter of Section 11 160 acres.

Which would then give you two 80-acre units?

That is correct.

Do you concur with Humble's request to make A 80-acre spacing for the South Eunice-San Andres field permanent?

Yes, we do.

Was Exhibit 1 prepared by you or under your Q supervision?

Yes, it was. A

MR. KELLAHIN: I offer at this time Anadarko

Production Company's Exhibit Number 1.

MR. NUTTER: Anadarko's Exhibit Number 1 will be admitted in evidence.

(Whereupon, Anadarko's Exhibit Number 1 was offered and admitted in evidence.)

That completes the examination of MR. KELLAHIN: the witness,

MR. NUTTER: Are there any questions of Mr.

Stumphoffer?

CROSS-EXAMINATION

BY MR. NUTTER:

You say that the 13 Hugh Well was temporarily Q abandoned after producing less than 1,000 barrels?

Yes. It was producing approximately 500 barrels of fluid a day, about three or four per cent oil, which is about twelve or fifteen barrels a day, and which, in our opinion, is not economic. Q

This doesn't pay the electric bill?

 \mathbf{A} No.

MR. NUTTER: Any further questions of the witness: He may be excused.

(Witness excused.)

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

MR. KELLAHIN: That's all.

MR. NUTTER: Does anyone have anything further they wish to offer in Case 4065? Do you have anything further, Mr. Hinkle?

MR. HINKLE: No.

MR, NUTTER: If nothing further, we will take the case under advisement.

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c. w.	STUMPHOFFER	
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EXHIBITS

NUMBER	MARKED FOR IDENTIFICATION	OFFERED AND ADMITTED IN EVIDENCE
Exhibit #1	3	$1^{I_{\mathbf{i}}}$
Exhibit #2	11	$1^{I_{\mathrm{f}}}$
Exhibit #3	12	14
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STATE OF NEW MEXICO)

COUNTY OF BERNALILLO)

I, ADA DEARNLEY, Notary Public in and for the County of Bernalillo, State of New Mexico, do hereby certify that the foregoing and attached Transcript of Hearing before the New Mexico Oil Conservation Commission was reported by me; and that the same is a true and correct record of the said proceedings, to the best of my knowledge, skill and ability.

Witness my Hand and Seal this 6th day of March, 1970,

NOTARY PUBLIC

My Commission Expires:

June 19, 1971



BEFORE THE

NEW MEXICO OIL CONSERVATION COUMISSION

Santa Fe, New Mexico

March 5, 1969

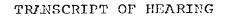
EXAMINER HEARING

IN THE MATTER OF:

Application of Numble Oil)
& Refining Company for)
the creation of a new oil)
pool, assignment of dis-)
covery allowable, and the)
promulgation of pool rules,)
Lea County, New Mexico.)

Case No. 4065

BEFORE: Daniel S. Nutter, Examiner





MR. NUTTER: Case 4065.

MR. HATCH: Case 4065, application of Humble Oil and Refining Company for the creation of a new oil pool, assignment of discovery allowable, and the promulgation of pool rules, Lea County, New Mexico.

MR. HINKLE: Clarence Hinkle, of Hinkle, Bondurant and Christy of Roswell, appearing on behalf on Humble Oil and Refining Company. We have one witness and two exhibits.

(Witness sworn.)

(Whereupon, Applicant's Exhibits Numbers 1 and 2 were marked for identification.)

A. L. CARPENTER

called as a witness on behalf of the Applicant, having been first duly sworn, was examined and testified as follows:

DIRECT EXAMINATION

BY MR. HINKLE:

- O State your name, residence, and by whom you are employed.
- A A. L. Carpenter, Hobbs, New Mexico, Humble Oil and Refining Company.
 - Q What is your position with them?
 - A District Chief Engineer.
 - 0 Have you previously testified before the Oil Conservation

Commission?

- λ ves, sir.
- O And your qualifications as a petroleum engineer are a matter of record with the Commission?
 - A Yes, sir.
- O Are you familiar with the application of Humble in Case No. 4065?
 - A Yes, sir.
- Q What is Humble seeking to accomplish by this application?
- A In Case No. 4065, that is Humble's application to have its New Mexico State "S" water source well No. 4, State

 Engineer File No. CP-427, reclassified from a water well to a

 San Andres oil well. It also includes the exception to Rule

 104 for an unorthodox location. It is further requested that
 the establishment of temporary special pool rules including

 80-acre spacing allowables and proration units, and a discovery
 allowable for this subject water well. The 80-acre proration
 unit should run east-west with two per guarter section.
- Q We can go into that later. Where is the water well located?
- A It is located 175 feet from the south line, and 650 feet from the west line of Section 2, Township 22 South, Range 37

East, Lea County, New Mexico.

- O Is this well located within the unit area?
- A Yes, it is.
- Q What unit?
- A The Paddock San Angelo Unit.
- Q Is Humble the operator of that unit?
- A Yes, sir.
- Q Have you prepared an exhibit for introduction in this case?
 - A Yes, sir.
- Q Refer to Humble's Exhibit 1, and explain what this is and what it shows.
- A This is a plat showing the unit area of the Paddock San Angelo Unit of which Humble is the operator, and the surrounding area. On this exhibit, the dark colored wide line is the unit perimeter. Over on the central east portion of the map, there is an enclosure which is not included; it is also in a wide line. It shows the location of the subject water well in the southwest guarter of the southwest guarter of Section 2.
 - Q What is the history of this well?
- A Well, this water well, water rights were obtained starting in 1965 to develop a water source for the Paddock Unit.

 It was drilled with unit money to the lower San Andres to

develop a water source for the evaluation of a double 80-acre five-spot pilot.

- Q The Paddock is essentially waterflood and secondary water recovery?
 - A Yes, it is.
 - Q Did you find water in this well?
 - A Yes, sir, we did.
 - Q What else did you find?
 - A We found some nasty oil.
 - Q What was the depth of the well?
 - A The TD on the well was 4,900 feet.
 - 0 What did your initial test show on the well?
- A Well, the initial representative 24-hour test, it produced 6,180 barrels of water and just over 100 barrels of oil.
- Q With this condition prevailing, is it satisfactory to use this water with the oil for the waterflood project?
 - A No, sir.
 - Q What do you propose to do with it?
- A Well, I don't -- do you mean legally, or with reference to what?
 - Q What would you like to do?
 - A We want to reclassify the well so we can sell the oil

and get rid of the oil, so that we can use our water source as it was originally intended.

- O Now, why was the well located where it is located in an unorthodox location?
- A Under this CP-427, you are tied to a guarter, quarter, quarter, and this is a multipay area in all reservoirs. There are several producing horizons. There are a lot of other wells in the vicinity, and there is a railroad track, as you can see in Exhibit 1, that crowds the well. That was about the only place we could drill it, and that is the reason it is closer to the south line.
- Q And at that time that complied with the regulations or request of the State Engineer?
 - Λ Yes, sir.
- Now, in your opinion, will this well produce if the oil can be separated from it, sufficient water for the pilot flood?
 - A Yes, sir,
- 0 What have you done, if anything, with respect to trying to cut off the oil?
- A We have spent about \$30,000 on two different squeeze cement jobs in an effort to eliminate the oil production. In fact, we have squeeze cemented the top three perforated intervals

in the lower San Andres. Actually, the highest producing present perforation is 325 feet below the top of the San Andres right now.

- O Are these perforations shown by the well log?
- A Yes, they are.
- O Will you refer to Exhibit Number 2, and explain that to the Commission?
- A All right, sir. Exhibit Number 2 is a neutron porosity log, and in the well bore on that log is shown the top of the San Andres, the perforated intervals, the stimulation treatments, and it also depicts the fact that the top three zones have been squeezed with cement.
- O What was the result of your squeeze operation workover?
- A Well, I think the well probably would have made more oil on a long production test had we not squeezed it. I think we retarded it somewhat.
- O In your opinion, can the oil be effectively shut off from the water?
- A We don't think it can from a practical standpoint. We spent \$130,000 on this little old water well trying to drill it and complete it, and get rid of the oil so far, and this is unit money, and from a prudent standpoint we have to represent

all the working interests on it. We think that predominately this oil is migrating out into the reservoir rock downward, and not in the vicinity of the well bore.

- Now, in your application you are proposing the adoption of special field rules?
 - A Yes, sir.
- Q What special field rules do you recommend to the Commission for adopting?
- A Well, we are recommending temporary special pool rules, including 80-acre spacing, 80-acre allowables, and 80-acre proration units, and a discovery allowable for this subject well.
- Now, on the proration, well spacing proration unit, do you want specific 80-acres designated?
- A Yes, sir, we would prefer and recommend that the 80-acre proration unit should run east-west, with two per quarter section; that is the north half and the south half of each quarter section would be an 80-acre proration unit.
- Q Do you have any recommendation to make with respect to the well locations?
- A Yes, sir. We would like to recommend that the operators should be allowed to drill in either 40-acre tract of each 80-acre east-west proration unit, with the wells being located no

closer than 330 feet from any 40-acre tract boundary.

- Q Would you also like to have the rules specifically exempt the subject well as far as the location is concerned?
 - A Yes, sir.
- O Is there any particular reason that you want 80-acre spacing and 80-acre allowable in this particular case?
- A Yes, sir. We spent this unit's money developing a non-potable water source, to evaluate this \$11 million flood with its double 80-acre five-spot pilot, and our main goal in the drilling of this well was to evaluate this waterflood unit. What was the rest of the question?
 - O The reason why you wanted the discovery allowable.
- A And tied to this our predominate desire in this water well is to not be limited on our water production. We need the 6,000 barrels a day. So, based on what little factual data we have been able to develop, by obtaining the discovery allowable and the 80-acre allowable, we feel we could produce the amount of water we need without being limited on the oil allowable, and that is the only reason we are requesting this.
- Q Do you feel that one well in this San Andres will effectively and efficiently drain as much as 80 acres?
- A We do. We do think it will. There are some very porous zones in this San Andres, and we don't have enough

factual data to prove it at this time, and that is the reason we are requesting temporary special rules.

- O of a year?
- A Of a year, yes, sir.
- O Do you feel by that time the production history and perhaps the drilling of additional wells will demonstrate whether or not one well will effectively and efficiently drain as much as 80 acres?
 - A Yes, we do.
- O Do you feel that the adoption of special field rules in this case will be in the interest of conservation and the prevention of waste?
 - A Yes, sir.
- 9 Would it also prevent the violation of correlative rights or protection of correlative rights?
 - A Yes, sir.
- Q Will it, in your opinion, promote the greatest ultimate recovery of production from the San Andres?
 - A Yes. I even have a name to recommend.
 - Q Go ahead and recommend it.
- A The nearest pool in this reservoir of any magnitude is the Eunice Pool, approximately four to five miles northwest of here. And since on Exhibit 1, you can see this is practically

in the city limits of Dunice, and this well is south of Eunice, we propose to call it the South Eunice San Andres Pool.

- O In your opinion, is this a new discovery or a new pool?
 - A Yes, sir.
 - O Within the rules of the Commission?
 - A Yes, sir.
- O There are no other wells producing from this particular formation in the immediate vicinity?
 - A No, sir.
 - O Do vou have any further comments?
 - A No, sir.

MR. HINKLE: That is all I have on direct examination.

CROSS EXAMINATION

BY MR. NUTTER:

- Q Mr. Carpenter, does CP-427 set any limit on the amount of water that you can produce?
- A No, sir. That was obtained under the old statute before the Legislature in the last session. This well, along with five other water wells, has been allocated 1,980 acre feet per year, and it can be drawn from any well, any of the six, or all of them together. Looking at it from a prudent standpoint, as you can see in Exhibit 2, we went back in after the

squeeze jobs upstairs, and put a lot of acid in those downstairs to develop enough water in this one well to evaluate this pilot.

- O Those others, -- another five or four?
- A Another five.
- O Do they all come under the same permit for the use of water in this unit area here?
 - A Yes, sir.
- O In other words, you are entitled to take out 1,900 acre feet a year?
 - A Yes, sir.
 - Q From this one well --
 - A If it would make it.
 - 0 If it would make it?
- A Yes, sir. That is, back to Commission terminology, that is 41,500 barrels of water a day. And this well won't quite do it.
- Q I was wondering if you were going to exceed any limitation on water withdrawal in attempting to make the top allowable for 80 acres, plus a discovery allowable?
- A No, sir. The reason for the request, what we are trying to do is have no limitation on our water production.
- O Now, the production of oil, Mr. Carpenter, from this well will be kept separate from the production of oil in the

remainder of the wells on the unit, or at least metered prior to commingling --

- λ Yes, sir.
- 0 -- with the other oil?
- A Yes.

MR. NUTTER: I believe that is all. Any further questions?

REDIRECT EXAMINATION

BY MR. HINKLE:

Q What is the quality of water being produced from this well?

A It's highly corrosive, sour, non-potable, and not fit for anything other than waterflooding. It will kill weeds, or stuff like that.

MR. HINKLE: That is all.

MR. NUTTER: If there are no further questions of Mr. Carpenter, he may be excused.

MR. HINKLE: I would like to offer the exhibits.

MR, NUTTER: Humble's Exhibits 1 and 2 will be admitted in evidence.

(Whereupon, Applicant's Exhibits Numbers 1 and 2 were admitted in evidence.)

MR. NUTTER: Is there anything further?

MR. HINKLE: That is all.

MR. NUTTER: Does anyone have anything they wish to offer in Case 4065? We will take the case under advisement.

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		OFFERED AND
EXHIBITS	MARKED	ADMITTED
Applicant's Exhibits Numbers 1 and 2	2	13

STATE OF NEW MEXICO)

SS.
COUNTY OF BERNALILLO)

I, SAMUEL MORTELETTE, Court Perorter in and for the County of Bernalillo, State of New Mexico, do hereby certify that the foregoing and attached Transcript of Hearing before the New Mexico Oil Conservation Commission was reported by me, and that the same is a true and correct record of the said proceedings to the best of my knowledge, skill and ability.

COURT REPORTER

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OIL CONBERVATION COMMISSION

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

GOVERNOR DAVID F. CARGO CHAIRMAN LANG COMMISSIONER ALEX J. ARMIJO MEMBER

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

March 10, 1970

Mr. Clarence Hind Hinkle, Bonduran Attorneys at Law	C de Oliver
Post Office Box Roswell, New Mex	IU

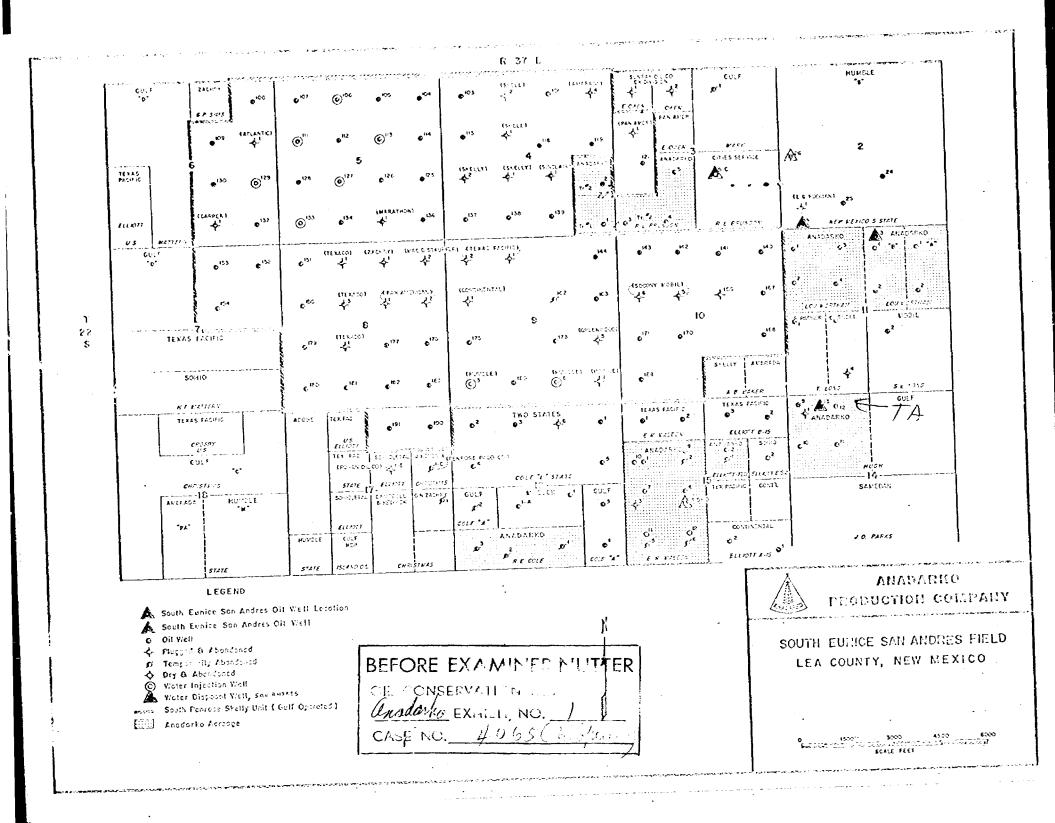
	4065
Rei	Case No. R-3706-A
	Applicant: Humble Oil & Refining Company

Enclosed herewith are two copies of the above-referenced Commis-Dear Sir: sion order recently entered in the subject case.

Very truly yours,

A. L. PORTER, Jr. Secretary-Director

ALP/ir Copy of order also sent to: Hobbs OCC x Artesia OCC____ Aztec OCC___ Mr. Jason Kellahin Other_



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OIL FIELD CHEMICALS?

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OIL FIELD CHEMICALS

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MIDLAND, TEXAS 797010

PRODUCTION DEPARTMENT

February 4, 1969

POST OFFICE BOX 1600

SOUTHWESTERN DIVISION L. H. BYRD MANAGER

Reclassification of New Mexico "S" State Water Source Well 4

(State Engineer's File: CP-427)

Lea County, New Mexico Cline 4065

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

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

Secretary, Director and State Geologist

Gentlemen:

Humble Oil & Refining Company respectfully requests a hearing before the Commission to consider its application to reclassify New Mexico "S" State Water Source Well 4 (CP-427) from a water well to an oil well. The well is located 650' from the west line, 175' from the south line, Section 2, T-22-S, R-37-F, Lea County, New Mexico; therefore, an unorthodox location is requested.

This well was completed in the lower San Andres formation as a source of water for the Paddock Unit pilot waterflood project. It is capable of producing the required 6,000 barrels of water per day, but it also produces approximately 100 barrels of oil per day (slightly less than two percent) at this maximum rate of production. For this reason, 80-acre spacing and a discovery allowable are also requested.

It is proposed to produce the well through three phase separation facilities, utilizing all water for the Paddock Unit pilot waterflood project. A request for permission to commingle the captioned well's San Andres oil production with the Paddock Unit production, by metering, has been submitted for administrative approval. Royalty from all oil produced from New Mexico "S" State Water Source Well 4 will be credited to the beneficiary of Humble's New Mexico "S" State lease.

Yours very truly,

L. H. Byrd

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OIL & REFINING COMPANY

> P. 0. Box 2100 Hobbs, New Mexico 88240 October 30, 1968

Mr. A. L. Porter, Jr., Secretary-Director New Mexico Oil Conservation Commission P. O. Box 2088 Santa Fe, New Mexico 87501

Dear Sir:

Humble Oil & Refining Company respectfully requests administrative approval to sell crude oil recovered at its Paddock Unit skimming facilities. The oil is produced from Humble's New Mexico "S" State Water Source Well No. 4, (New Mexico State Engineer File - CP 427) which is completed in the San Andres formation and supplies approximately 6,000 barrels of water per day for the Paddock Unit pilot waterflood.

Test data over the past month indicate oil production has leveled off at approximately 1.7 percent of total fluid, or will be about 102 barrels per day.

The New Mexico "S" State Water Source Well No. 4 was drilled under New Mexico State Engineer Permit No. CP 427, a copy of which is attached. Also attached is a section of the neutron porosity log, showing the San Andres formation and the intervals perforated and tested. During initial completion, this well produced approximately 2 percent oil. The three top perforated intervals were successfully squeeze cemented in an effort to eliminate the oil; however, results were unfavorable.

Storage and pipe line connection (Texas-New Mexico) will be provided near the skimming facilities for handling. Your prompt attention to this problem will be appreciated.

Very truly yours,

HUMBLE OIL & REFINING COMPANY

M. C. Turner District Superintendent

BKB/mcb

cc: Mr. J. R. Tolles P. 0. Box 1600 Midland, Texas 79701

cc: Mr. E. C. Barfield Mr. J. D. Ramey cc: P. O. Box 1600 P. O. Box 1980 Hobbs, New Mexico 88240 Midland, Texas 79701

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LEA COUNTY, NEW MEXICO

UWBLE OIL & REFINING COMPANY
SOUTHERSTEIN DIVISION

PRODUCTION DEPARTMENT
MODE DISTRICT

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HUMBLE EXHIBIT NO. 1

Date 3/4/70

Case 4065

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APPROVAL OF THE STATE ENGINEER

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INSTRUCTIONS

This form shall be executed, preferably typewritten, in triplicate and shall be accompanied by a filing fee of \$5.00. Each of triplicate copies must be properly signed and attested.

A separate application for permit must be filed for each well used.

Secs. 1-4-Fill out all blanks fully and accurately.

Sec. 5—Trrigation use shall be stated in feet depth or acre feet of water per acre to be applied on the land. If for domestic, municipal, or other purposes, state total quantity in acre feet to be used annually. Domestic use may include the irrigation of not more than one acre of lawn and garden for noncommercial use.

Sec. 6—Describe only the lands to be irrigated. If on unsurveyed lands describe by legal subdivision "as projected" from the nearest government survey corners, or describe by metes and bounds and tie survey to some permanent, easily located natural object.

Sec. 7-Estimate time reasonably required to commence and to complete project.

Sec. 8-If lands are irrigated from any other source, explain in this section. Give any other data necessary to fully describe water right sought.

If additional space is necessary, use a separate sheet or sheets and attach securely hereto.

NOTE: See attached Paddock Unit Plat showing relative locations of the other 5 wells.

14

GMH/esr

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:

RECORDS CENTER

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Order No. R-3706-A

APPLICATION OF HUMBLE OIL & REFINING COMPANY FOR THE CREATION OF A NEW OIL POOL, ASSIGNMENT OF DISCOVERY ALLOW-ABLE, AND THE PROMULGATION OF POOL RULES, LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on March 4, 19870, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this <u>day of March</u>, 19670, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

- (1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That by Order No. R-3706, dated March 12, 1969, temporary Special Rules and Regulations were promulgated for the South Eunice-San Andres Pool, Lea County, New Mexico, establishing 80-acre spacing units for a period of one year.
- (3) That pursuant to the provisions of Order No. R-3706, this case was reopened to allow the operators in the subject pool to appear and show cause why the South Eunice-San Andres Pool should not be developed on 40-acre spacing units.
- (4) That the evidence establishes that one well in the South Eunice-San Andres Pool can efficiently and economically drain and develop 80 acres.

- (5) That the Special Rules and Regulations promulgated by Order No. R-3706 have afforded and will afford to the owner of each property in the pool the opportunity to produce his just and equitable share of the oil in the pool.
- (6) That in order to prevent the economic loss caused by the drilling of unnecessary wells, to avoid the augmentation of risk arising from the drilling of an excessive number of wells, to prevent reduced recovery which might result from the drilling of too few wells, and to otherwise prevent waste and protect correlative rights, the Special Rules and Regulations promulgated by Order No. R-3706 should be continued in full force and effect until further order of the Commission.

IT IS THEREFORE ORDERED:

- (1) That the Special Rules and Regulations governing the South Eunice-San Andres Pool, Lea County, New Mexico, promulgated by Order No. R-3706, are hereby continued in full force and effect until further order of the Commission.
- (2) 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.

GMH/esr

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:

RECORDS CENTER & LAW LIBRARY

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CASE No. 4065

Order No. R-37 NOMENCLATURE

APPLICATION OF HUMBLE OIL & REFINING COMPANY FOR THE CREATION OF A NEW OIL POOL, ASSIGNMENT OF DISCOVERY ALLOW-

ABLE, AND THE PROMULGATION OF POOL RULES, LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on March 5 , 1969, at Santa Fe, New Mexico, before Examiner <u>Daniel S. Nutter</u>.

NOW, on this _____day of __March ___, 1969_, the Commission, a guorum 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, Humble Oil & Refining Company, is the owner and operator of the New Mexico State "S" Water Source Well No. 4 (CP-427), located 175 feet from the South line and 650 feet from the West line of Section 2, Township 22 South, Range 37 East, NMPM, Lea County, New Mexico.
- (3) That the applicant seeks the reclassification of the aforesaid New Mexico State "S" Water Source Well No. 4 (CP-427) as an oil well for the production of oil from the San Andres formation.
- (4) That the applicant further seeks the creation of a new oil pool for San Andres production in Lea County, New Mexico,

Shut

for its aforesaid New Mexico State "S" Water Source Well No. 4 (CP-427), and the assignment of an oil discovery allowable in the amount of 21,190 barrels to said well.

(5) That the applicant further seeks the promulgation of special rules and regulations governing said pool, including a provision for 80-acre spacing units.

(7)(6) That the aforesaid New Mexico State "S" Water Source
Well No. 4 (CP-427) should be reclassified as an oil well for the
production of oil from the San Andres formation.

(6) (7) That the evidence presently available indicates that the aforesaid New Mexico State "S" Water Source Well No. 4 (CP-427) has discovered a separate common source of supply which should be designated the

| Language - Language - Pool; that the vertical limits of said pool should be the San Andres formation as found in the interval from ______ feet to _____ feet on the log of the aforesaid New Mexico State "S" Water Source Well No. 4 (CP-427); and that the horizontal limits of said pool should be the

of said Section 2 and the N/2. New 4 Section 1/1, Township 22 South, Range 37 East, Annual (8) That the discovery well for the aforesaid pools, Humble

Oil & Refining Company's New Mexico State "S" Water Source Well

No. 4 (CP-427), is entitled to and should receive a bonus discovery oil allowable in the amount of 21,190 barrels, based upon the top perforations in said well at 4238 feet, to be assigned over a two-year period.

(9) That in order to prevent the economic loss caused by the drilling of unnecessary wells, to avoid the augmentation of risk arising from the drilling of an excessive number of wells, to prevent reduced recovery which might result from the drilling of too few wells, and to otherwise prevent waste and protect correlative rights, temporary special rules and regulations providing for 80-acre spacing units should be promulgated for the due to the day of the december of the dec

- (10) That the temporary special rules and regulations should provide for limited well locations in order to assure orderly development of the pool and protect correlative rights.
- (11) That the temporary special rules and regulations should be established for a one-year period in order to allow the operators in the subject pool to gather reservoir information to establish the area that can be efficiently and economically drained and developed by one well.
- (12) That this case should be reopened at an examiner hearing in March, 1970, at which time the operators in the subject pool should be prepared to appear and show cause why the developed on 40-acre spacing units.

IT IS THEREFORE ORDERED:

- (1) That the Humble Oil & Refining Company New Mexico State "S" Water Source Well No. 4 (CP-427), located 175 feet from the South line and 650 feet from the West line of Section 2, Township 22 South, Range 37 East, NMPM, Lea County, New Mexico, is hereby reclassified as an oil well for the production of oil from the San Andres formation.
- as an oil pool for San Andres production, is hereby created and designated the Acade Eurose Acade Pool, with vertical limits comprising the San Andres formation as found in the interval from foot to feet on the log of the discovery well, Humble Oil & Refining Company's New Mexico State "5" Water Source Well No. 4 (CP 427), located 175 feet from the South line and 650 feet from the West line of Section 2, Township 22 South, Range 37 East, NMPM, Loa County, New Mexico, and horizontal limits comprising the following-described area:

TOWNSHIP 22 SOUTH, RANGE 37 EAST, NMPM Section 2: 6/2 SWJ4
Section 1/: N/2 NWJ4

the Hemble Oil & Refining Company New Yaskies Hate "S" water Sauce Well No. 4 (CP-427)

CASE No. 4065

- (3) That the aforesaid discovery well is hereby authorized an oil discovery allowable of 21,190 barrels to be assigned to said well at the rate of 30 barrels per day in accordance with Rule 509 of the Commission Rules and Regulations.
- (4) That temporary Special Rules and Regulations for the Lauth Europe Leader Pool, Lea County, New Mexico, are hereby promulgated as follows:

SPECIAL RULES AND REGULATIONS
FOR THE

South Englished POOL

RULE 1. Each well completed or recompleted in the san Andres formation within one mile thereof, and not nearer to or within the limits of another designated San Andres oil pool, shall be spaced, drilled, operated, and produced in accordance with the Special Rules and Regulations hereinafter set forth.

RULE 2. Each well shall be located on a standard unit containing 80 acres, more or less, consisting of the N/2, S/2, S/2, or V/2 of a governmental quarter section; provided, however, that nothing contained herein shall be construed as prohibiting the drilling of a well on each of the guarter-quarter sections in the unit.

RULE 3. The Secretary-Director of the Commission may grant an exception to the requirements of Rule 2 without notice and hearing when an application has been filed for a non-standard unit comprising a governmental quarter-quarter section or lot, or the unorthodox size or shape of the tract is due to a variation in the legal subdivision of the United States Public Land Surveys. All operators offsetting the proposed non-standard unit shall be notified of the application by registered or certified mail, and

the application shall state that such notice has been furnished. The Secretary-Director may approve the application upon receipt of written waivers from all offset operators or if no offset operator has entered an objection to the formation of the non-standard unit within 30 days after the Secretary-Director has received the application.

Thun 330 feet to a quarter guarter recluir line.

RULE 5. The Secretary-Director may grant an exception to the requirements of Rule 4 without notice and hearing when an application has been filed for an unorthodox location necessitated by topographical conditions or the recompletion of a well previously drilled to another horizon. All operators offsetting the proposed location shall be notified of the application by registered or certified mail, and the application shall state that such notice has been furnished. The Secretary-Director may approve the application upon receipt of written waivers from all operators offsetting the proposed location or if no objection to the unorthodox location has been entered within 20 days after the Secretary-Director has received the application.

The allowable assigned to a non-standard proration unit shall bear the same ratio to a standard allowable as the acreage in such non-standard unit bears to 80 acres.

IT IS FURTHER ORDERED:

- (1) That the locations of all wells presently drilling to or completed in the <u>language</u> Pool or in the San Andres formation within one mile thereof are hereby approved; that the operator of any well having an unorthodox location shall notify the Hobbs District Office of the Commission in writing of the name and location of the well on or before

 April 1, 1969, 1969.
- (2) That each well presently drilling to or completed in the Louth Eurice Landar Pool or in the San Andres formation within one mile thereof shall receive a 40-acre allowable until a Form C-102 dedicating 80 acres to the well has been filed with the Commission.
- (3) That this case shall be reopened at an examiner hearing in March, 1970, at which time the operators in the subject pool may appear and show cause why the fauth Eurice far Andrew Pool should not be developed on 40-acre spacing units.
- (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.

NEW MEXICO OIL CONSERVATION COMMISSION Santa Fe, New Mexico February 26, 1969

EXAMINER HEARING

IN THE MATTER OF:

Application of Humble Oil & Refining Company for an unorthodox oil well location and reclassification of a water well to an oil well, Lea County, New Mexico.

Case No. 4065

BEFORE: Elvis A. Utz, Examiner.

TRANSCRIPT OF HEARING



MR. UTZ: The hearing will come to order, please. First, I'll call the continued cases, of which there are three.

Case No. 4065.

MR. HATCH: Case 4065. Application of Humble Oil & Refining Company for an unorthodox oil well location and reclassification of a water well to an oil well, Lea County, New Mexico.

Examiner please, it has been necessary to readvertise this case to make corrections and applicant has asked that it be continued to March the 5th, 1969.

MR. UTZ: Case 4065 will be continued to March 5th, 1969.

STATE OF NEW MEXICO)
) ss
COUNTY OF BERNALILLO)

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

Witness my hand this 29th day of March, 1969.

Court Reporter

I do hereby cartify that the foregoing is a speciate secret of the prospectors in the breather besting of these we. 406 hereing the common like the foregoing is

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. 4065 Order No. R-3706-A

APPLICATION OF HUMBLE OIL & REFINING COMPANY FOR THE CREATION OF A NEW OIL POOL, ASSIGNMENT OF DISCOVERY ALLOW-ABLE, AND THE PROMULGATION OF POOL RULES, LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on March 4, 1970, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 11th day of March, 1970, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

- (1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That by Order No. R-3706, dated March 12, 1969, temporary Special Rules and Regulations were promulgated for the South Eunice-San Andres Pool, Lea County, New Mexico, establishing 80-acre spacing units for a period of one year.
- (3) That pursuant to the provisions of Order No. R-3706, this case was reopened to allow the operators in the subject pool to appear and show cause why the South Eunice-San Andres Pool should not be developed on 40-acre spacing units.
- (4) That the evidence establishes that one well in the South Eunice-San Andres Pool can efficiently and economically drain and develop 80 acres.

- (5) That the Special Rules and Regulations promulgated by Order No. R-3706 have afforded and will afford to the owner of each property in the pool the opportunity to produce his just and equitable share of the oil in the pool.
- (6) That in order to prevent the economic loss caused by the drilling of unnecessary wells, to avoid the augmentation of risk arising from the drilling of an excessive number of wells, to prevent reduced recovery which might result from the drilling of too few wells, and to otherwise prevent waste and protect correlative rights, the Special Rules and Regulations promulgated by Order No. R-3706 should be continued in full force and effect until further order of the Commission.

IT IS THEREFORE ORDERED:

- (1) That the Special Rules and Regulations governing the South Eunice-San Andres Pool, Lea County, New Mexico, promulgated by Order No. R-3706, are hereby continued in full force and effect until further order of the Commission.
- (2) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

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

STATE OF NEW MEXICO OIL CONSERVATION COMMISSION

DAVID F. CARGO, Chairman

ALEX J. ARMIJO, Member

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

esr/

DOCKET: EXAMINER HEARING - WEDNESDAY - MARCH 4. 1970

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

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

CASE 4318:

Application of Pan American Petrolaum Corporation for a non-standard gas promation unit, Law County, New Mexico. Applicant, in the above-styled cause, seeks the consolidation of two existing non-standard gas promation units into one 320-acre non-standard unit comprising the N/2 of Section 7, Township 24 South, Range 37 East, Jalmat Gas Fool, Lea County, New Mexico, to be dedicated to its Meyers "B" Federal R/A Wells Nos. 1 and 10, located in Units D and G. respectively, of said Section 7, Applicant further seeks authority to produce the allowable assigned to said unit from either of said wells in any proportion.

CASE 4065: (Reopened):

In the matter of Case No. 4065 being reopened pursuant to the provisions of Order No. R-3706, which order established 80-acre spacing units for the South Eunice-San Andres Pool, Lea County, New Mexico, for a period of one year. All interested parties may appear and show cause why said pool should not be developed on 40-acre units.

CASE 4314:

(Continued and readvertised from Pebruary 25, 1970, Examiner Hearing).

Application of Coastal States Gas Producing Company for pool redelineation, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the redelineation of certain pool boundaries to include the deletion of the W/2 and SE/4 of Section 21, Township 13 South, Range 13 East, Lea County, New Mexico, from the Leay 3-Pennsylvanian Pool and the extension of the North Baum Upper Pennsylvanian Pool to include said deleted acreage.

CASE 4069: (Reopened)

In the matter of Case No. 4069 being reopened pursuant to the provisions of Order No. R-3701, which order established 80-acre spacing units for the Lovington-Devonian Pool, Lea County, New Mexico, for a one-year period. All interested parties may appear and show cause why said pool should not be developed on 40-acre units.

- CASE 4317:

 (Continued from the Mebruary 15, 1970, Examiner Hearing)
 Application of Union Oit Company of California for the creation of a new gas pool and special pool rules,
 Roosevelt County, New Mexico. Applicant, in the abovestyled cause, seeks the creation of a new San Andres gas pool for its Pederal "18" Wall No. 2 located 660 feet from the South and East lines of Section 18 Township 8 South,
 Range 38 East Roosevelt County, New Mexico, and for the promulgation of special rules therefor, including provisions
- CASE 4319: Application of Texaco Inc. for downhole commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to commingle production from the North Vacuum-Abo Poel and the Vacuum-Wolfdamp Pool in the wellbores of its New Mexico "Q" State Well No. 4 and its New Mexico "N" State Well No. 6, triple completions located respectively in Unit P of Section 25, Township 17 South, Range 34 East and Unit L of Section 30, Township 17 South, Range 35 East, Lea County, New Mexico.

for 160-acre spacing units and a cusing program,

CASE 4315 (Continued from February 25, 1970, Examiner Hearing)

Application of Pan American Petroleum Corporation for pool consolidation, Lea County, New Mexico. Applicant, in the above-styled cause, saeks the consolidation of the Wowler-Lower Paddock and Powler-Blinebry Pools, Lea County, New Mexico, into one pool. Applicant further requests that the consolidated pool be governed by rules presently applicable to the Fowler-Blinebry Pool.

CASE 4316: (Continued from February 25, 1970. Examiner Hearing)

Application of Pan American Petroleum Comporation for an unorthodox gas well invention. Eddy County, New Mexico. Applicant, in the above-styled cause, seeks on exception to Rule 104 C II to permit the drilling of a well at an unorthodox gas well location 330 feet from the North and East lines of Section II, Township 23 South, Range 26 East, South Carlsbad-Strawn.-Atoka, and-Morrow Gas Pools, Eddy County, New Mexico. The N/2 of said Section II to be dedicated to the well.



OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO P. O. BOX 2088 - SANTA FE 87801 GOYERNOR
DAVID F. CARGO
CHAIRMAN

LAND COMMISSIONER ALEX J. ARMIJO MEMBER

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

March 12, 1969

Mr. Clarence Hinkle Hinkle, Bondurant & Christy Attorneys at Law Fost Office Box 10 Roswell, New Mexico 88201 DOCKE		Case NoOrder NoApplicant: Humble Oil	4065 R-3706 & Refining Company
Dear Sir: Date	1-19-7	0	
Enclosed herewith are two cosion order recently entered	pies of t in the su	he above-refe bject case,	renced Commis-
	1. h. A. L. P	ORTER, Jr.	<i>2,</i>
ALP/ir			
Copy of order also sent to:			
Hobbs OCC			
Artesia OCC			
Artesia OCC			

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. 4065 Order No. R-3706 NOMENCLATURE

APPLICATION OF HUMBLE OIL & REFINING COMPANY FOR THE CREATION OF A NEW OIL POOL, ASSIGNMENT OF DISCOVERY ALLOWABLE, AND THE PROMULGATION OF POOL RULES, LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on March 5, 1969, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 12th day of March, 1969, 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, Humble Oil & Refining Company, is the owner and operator of the New Mexico State "S" Water Source Well No. 4 (CP-427), located 175 feet from the South line and 650 feet from the West line of Section 2, Township 22 South, Range 37 East, NMPM, Lea County, New Mexico.
- (3) That the applicant seeks the reclassification of the aforesaid New Mexico State "S" Water Source Well No. 4 (CP-427) as an oil well for the production of oil from the San Andres formation.
- (4) That the applicant further seeks the creation of a new oil pool for San Andres production in Lea County, New Maxico,

-2-CASE No. 4065 Order No. R-3706

for its aforesaid New Mexico State "S" Water Source Well No. 4 (CP-427), and the assignment of an oil discovery allowable in the amount of 21,190 barrels to said well.

- (5) That the applicant further seeks the promulgation of special rules and regulations governing said pool, including a provision for 80-acre spacing units.
- (6) That the evidence presently available indicates that the aforesaid New Mexico State "S" Water Source Well No. 4 (CP-427) has discovered a separate common source of supply which should be designated the South Eunice-San Andres Pool; that the vertical limits of said pool should be the San Andres formation and that the horizontal limits of said pool should be the S/2 SW/4 of said Section 2 and the N/2 NW/4 of Section 11, Township 22 South, Range 37 East, NMPM.
- (7) That the aforesaid New Mexico State "S" Water Source Well No. 4 (CP-427) should be reclassified as an oil well for the production of oil from the San Andres formation.
- (8) That the discovery well for the aforesaid pool, Humble Oil & Refining Company's New Mexico State "S" Water Source Well No. 4 (CP-427), is entitled to and should receive a bonus discovery oil allowable in the amount of 21,190 barrels, based upon the top perforations in said well at 4238 feet, to be assigned over a two-year period.
- (9) That in order to prevent the economic loss caused by the drilling of unnecessary wells, to avoid the augmentation of risk arising from the drilling of an excessive number of wells, to prevent reduced recovery which might result from the drilling of too few wells, and to otherwise prevent waste and protect correlative rights, temporary special rules and regulations providing for 80-acre spacing units should be promulgated for the South Eunice-San Andres Pool.
- (10) That the temporary special rules and regulations should provide for limited well locations in order to assure orderly development of the pool and protect correlative rights.
- (11) That the temporary special rules and regulations should be established for a one-year period in order to allow the operators in the subject pool to gather reservoir information to establish the area that can be efficiently and economically drained and developed by one well.

-3-CASE No. 4065 Order No. R-3706

(12) That this case should be reopened at an examiner hearing in March, 1970, at which time the operators in the subject pool should be prepared to appear and show cause why the South Eunice-San Andres Pool should not be developed on 40-acre spacing units.

IT IS THEREFORE ORDERED:

- (1) That the Humble Oil & Refining Company New Mexico State "S" Water Source Well No. 4 (CP-427), located 175 fs.t from the South line and 650 feet from the West line of Section 2, Township 22 South, Range 37 East, NMPM, Lea County, New Mexico, is hereby reclassified as an oil well for the production of oil from the San Andres formation.
- (2) That a new pool in Lea County, New Mexico, classified as an oil pool for San Andres production, is hereby created and designated the South Eunice-San Andres Pool, with vertical limits comprising the San Andres formation and horizontal limits comprising the following-described area:

TOWNSHIP 22 SOUTH, RANGE 37 EAST, NMPM Section 2: S/2 SW/4 Section 11: N/2 HW/4

- (3) That the discovery well, the aforesaid Humble Oil & Refining Company New Mexico State "S" Water Source Well No. 4 (CP-427), is hereby authorized an oil discovery allowable of 21,190 barrels to be assigned to said well at the rate of 30 barrels per day in accordance with Rule 509 of the Commission Rules and Regulations.
- (4) That temporary Special Rules and Regulations for the South Eunice-San Andres Pool, Lea County, New Mexico, are hereby promulgated as follows:

SPECIAL RULES AND REGULATIONS FOR THE SOUTH EUNICE-SAN ANDRES POOL

RULE 1. Each well completed or recompleted in the South Sunice-San Andres Pool or in the San Andres formation within one mile thereof, and not nearer to or within the limits of another designated San Andres oil pool, shall be spaced, drilled, operated, and produced in accordance with the Special Rules and Regulations hereinafter set forth.

-4-CASE No. 4065 Order No. R-3706

- RULE 2. Each well shall be located on a standard unit containing 30 acres, more or less, consisting of the N/2 or S/2 of a governmental quarter section; provided, however, that nothing contained herein shall be construed as prohibiting the drilling of a well on each of the quarter-quarter sections in the unit.
- RULE 3. The Secretary-Director of the Commission may grant an exception to the requirements of Rule 2 without notice and hearing when an application has been filed for a non-standard unit comprising a governmental quarter-quarter section or lot, or the unorthodox size or shape of the tract is due to a variation in the legal subdivision of the United States Public Land Surveys. All operators offsetting the proposed non-standard unit shall be notified of the application by registered or certified mail, and the application shall state that such notice has been furnished. The Secretary-Director may approve the application upon receipt of written waivers from all offset operators or if no offset operator has entered an objection to the formation of the non-standard unit within 30 days after the Secretary-Director has received the application.
- RULE 4. Each well shall be located no closer than 330 feet to a quarter-quarter section line.
- RULE 5. The Secretary-Director may grant an exception to the requirements of Rule 4 without notice and hearing when an application has been filed for an unorthodox location necessitated by topographical conditions or the recompletion of a well previously drilled to another horizon. All operators offsetting the proposed location shall be notified of the application by registered or certified mail, and the application shall state that such notice has been furnished. The Secretary-Director may approve the application upon receipt of written waivers from all operators offsetting the proposed location or if no objection to the unorthodox location has been entered within 20 days after the Secretary-Director has received the application.
- RULE 6. A standard proration unit (79 through 81 acres) shall be assigned an 80-acre proportional factor of 2.00 for allowable purposes, and in the event there is more than one well on an 80-acre proration unit, the operator may produce the allowable assigned to the unit from the wells on the unit in any proportion.

The allowable assigned to a non-standard proration unit shall bear the same ratio to a standard allowable as the acreage in such non-standard unit bears to 80 acres.

-5-CASE No. 4065 Order No. R-3706

IT IS FURTHER ORDERED:

- (1) That the locations of all wells presently drilling to or completed in the South Eunice-San Andres Fool or in the San Andres formation within one mile thereof are hereby approved; that the operator of any well having an unorthodox location shall notify the Hobbs District Office of the Commission in writing of the name and location of the well on or before April 1, 1969.
- (2) That each well presently drilling to or completed in the South Eunice-San Andres Pool or in the San Andres formation within one mile thereof shall receive a 40-acre allowable until a Form C-102 dedicating 80 acres to the well has been filed with the Commission.
- (3) That this case shall be reopened at an examiner hearing in March, 1970, at which time the operators in the subject pool may appear and show cause why the South Bunice-San Andres Pool should not be developed on 40-acre spacing units.
- (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.

STATE OF NEW MEXICO

OTT CONSERVATION COMMISSION

DAVID F. CARGO, Chairman

ALEX J. ARMIJO Member

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

DOCKET: EXAMINER HEARING - WEDNESDAY - MARCH 5, 1969

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

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

- CASE 4071: Application of T. J. Sivley for a dual completion and salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dually complete his Federal Silver Well No. 4 located in the SW/4 SE/4 of Section 28, Township 20 South, Range 34 East, Lynch Yates-Seven Rivers Pool, in such a manner as to permit production of oil from the Yates-Seven Rivers formations and the disposal of produced salt water into the Lower Seven Rivers formation.
- CASE 4072: Application of Pennacil United, Inc., for a dual completion, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the Inal completion (conventional) of its Mobil "12" Federal Well No. 1 located in Unit B of Section 12, Township 23 South, Range 26 East, Eddy County, New Mexico, in such a manner as to permit the production of gas from an undesignated Atoka gas pool and gas from an undesignated Morrow gas pool through parallel strings of tubing.
- CASE 4073: Application of Standard Oil Company of Texas for a dual completion and salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dually complete its Continental State Well No. 1 located in Unit B of Section 5, Township 24 South, Range 38 East, Stateline-Ellenburger Pool, Lea County, New Mexico, in such a manner as to permit production of oil from the Ellenburger formation through tubing and the disposal of produced salt water into the Queen, San Andres, Glorieta, Tubb, Drinkard, and Mississippian furnation through the casing-casing annulus in the open-hole interval from 4105 feet to 8980 feet.
- CASE 4067: (Continued from the February 26, 1969 Examiner Hearing)

Application of Benson-Montin-Greer Drilling Corporation for special pool rules, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks the promulgation of special pool rules for the La Plata-Gallup Pool, San Juan County, New Mexico, including a provision for 160-acre spacing and proration units. Applicant further requests that said special rules provide that the unit allowable for a 160-acre unit in said pool be allocated on the basis of four times the normal unit allowable for Northwest New Mexico, and that no credit be given for depth factors. Applicant further requests that said special rules be limited in their application to the exterior boundaries of the La Plata-Mancos Unit Area.

- CASE 4074: Application of Benson-Montan-Green Drilling Corporation for a pressure maintenance project, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a pressure maintenance project by the injection of water into the Gallup formation in its La Plata Mancos Unit Well No. 1 located in Unit P of Section 31, Township 32 North, Range 13 West, and by the injection of gas into said Gallup formation in its La Plata Mancos Unit Well No. 4 located in Unit N of said Section 31, La Plata-Gallup Pool, San Juan County, New Mexico. Applicant, further seeks the promulgation of special rules governing the operation of said project.
- CASE 4075: Application of Benson-Montin-Greer Drilling Comporation for amendment of the La Plata Mancos Unit Agreement, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks to amend the form of the La Plata Mancos Unit Agreement, San Juan County, New Mexico, with respect to Sections 11 and 12 of said unit agreement, to permit inclusion in the participating area of any and all lands necessary for unit operations.
- CASE 4076: Application of American Trading and Production Corporation for the creation of a new pool, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new Morrow gas pool for its Southeast Lea Unit Well No. 2 located in Unit L of Section 25, Township 20 South, Range 35 East, Lea County, New Mexico.

CASE 4065: Application of Humble Cil & Refining Company for the creation of a new oil pool, assignment of discovery allowable, and the promulgation of pool rules, lea County, New Mexico. Applicant, in the above-styled Gauss, seeks to have its New Mexico State 2" Water Source Well No. 4 (CF-427), located at an unorthodox oil well location 650 feet from the West line and 175 feet from the South line of Section 2, Township 22 South, Range 37 East, Lea County, New Mexico, replassified as an oil well for the production of cil from the San Andres formation. Applicant further seeks the greation of a new San Andres cil pool for said well and the assignment of an oil discovery allowable of approximately 21,190 barnels to said well. Applicant further seeks the promulgation of special rules for said pool, including a provision for 80-acce provation units.

CASE 4066: (Continued from the February 26, 1969 Examiner Hearing)

Application of Humble Oil & Refining Company for the consolidation of two non-standard gas proration units, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the consolidation of two existing non-standard 320-acre gas proration units into one standard 640-acre unit comprising all of Section 26, Township 21 South, Range 36 East, Eumont Gas Pool, Lea County, New Mexico, to be dedicated to its New Mexico State "G" Wells Nos. 2 and 4 located in Units P and G, respectively, of said Section 26. Applicant further seeks authority to produce the allowable assigned to said unit from either of said wells in proportion.

OIL CONSERVATION COMMISSION

P. O. BOX 2088 SANTA FE, NEW MEXICO 87501

January 9, 1969

Mr. M. C. Turner
District Superintendent
Humble Oil & Refining Company
Post Office Box 2100
Hobbs, New Mexico 83240

DOCKET MALED

Dear Mr. Turner:

Mr. Paul Eaton of Roswell called me this afternoon inquiring as to why the Commission had not acted on your application for administrative approval to sell crude oil recovered at its Paddock Unit skimming facilities. Immediately after talking to Mr. Eaton I found your letter in my files with a note dated November 4, 1963, indicating that I had asked Joe Ramey, our district supervisor, to advise your office that based on the information which you had submitted, the well should be completed and operated as an oil well. This of course would mean that it would be subject to the allowable limitations for that depth.

After talking to Mr. Eaton this afternoon, I called Mr. Ramey who advised me that he had talked to Mr. Carpenter of your office and had been advised by him that you still wanted a written reply from this office. Mr. Ramey however forgot to advise me that you wanted the reply.

Mr. Ramey advised me this afternoon that he had authorized the sale of the oil that has been produced up to this time. I would suggest however that you proceed to have the well classified as an oil well and assigned an allowable as soon as possible. I believe that Mr. Ramey discussed with Mr. Carpenter the possibility of 80-acre spacing

OIL CONSERVATION COMMISSION

P. O. BOX 2088

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SANTA FE, NEW MEXICO 87501

Mr. M. C. Turner Humble Oil & Refining Company Hobbs, New Mexico

January 9, 1969

to take care of the allowable problem. No definite commitment could be made however on the spacing until after notice and hearing.

I regret the delay in answering your letter.

Very truly yours,

A. L. PORTER, Jr. Secretary-Director

ALP/ir

cci

Mr. Paul Eaton Hinkle, Bondurant & Christy Attorneys at Law Roswell, New Mexico

Mr. J. R. Tolles Post Office Box 1600 Midland, Texas



Mr. E. C. Barfield Post Office Box 1600 Midland, Texas

Mr. Joe D. Ramey Oil Conservation Commission Hobbs, New Mexico

DOCKET - EXAMINER HEARING - WEDNESDAY - FEBRUARY 26, 1969

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

The following cases will be heard before Elmis A. Utz. Examinen, or Daniel.

S. Nutter, Alternate Examinent

- CASE 4052: Application of Mobil Oil Corporation for a pool creation and discovery allowable, chaves county, New Mexico. Applicant, in the above-styled cause, seeks the creation of the Lightcap-Pennsylvanian Pool in Chaves County, New Mexico, comprising the NE/4 NE/4 of Section 7, Township 8 South, Range 30 East, and for the assignment of approximately 35,650 barrels of oil discovery allowable to the discovery well, its 0, 1,0 Being Well No. 1 liceated in Unit A of said Section 7.
- CASE 4036: (Continued from the February 5, 1969, Examiner Hearing)
 Application of Mobil Oil Componation for a dual completion,
 Chaves County, New Mexico. Applicant, in the above-styled
 cause, seeks approval for the dual completion (conventional)
 of its C. L. O'Brien Well No. 1 located in Unit A of Section
 7, Township 8 South, Range 30 East, Chaves County, New Mexico,
 to produce oil from an undesignated Pennsylvanian oil pool and
 the Lightcap (Devonian) Pool through parallel strings of tubing.
- CASE 4053: Application of El Paso Products Company for special pool rules, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks the promulgation of special rules for the Gallegos-Gallup Pool, San Juan County, New Mexico, including provisions for the classification of cil and gas wells, 80-acre spacing for oil wells, and 320-acre spacing for gas wells.
- CASE 4054: Application of American Pennoleum Corporation for an unorthodox oil well location and amendment to Order No. R-2197, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to drill a producing oil well at an unorthodox location 1250 feet from the West line and 2220 feet from the South line of Section 28, Township 24 South, Range 3° East, in its Langlie Mattix Woolweyth Unit Waterflood Project, Langlie-Mattix Fool, Lea County, New Mexico. Applicant also seeks the amendment of Order No. R-2197, which order authorized said waterflood project, to establish an administrative procedure whereby said project could be expanded to include additional lands and injection wells and producing wells at onthodox and unorthodox locations as may be necessary to complete an enficient injection and producing pattern without the necessity of showing well response.

- CASE 4055: Application of Albert Gackle for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Seven Rivers formation in the open-hole interval from approximately 3290 feet to 3620 feet in his George Etz Well No. 3 located in Unit N of Section 27, Township 23 South, Range 36 East, Jalmat Pool, Lea County, New Mexico.
- CASE 4056: Application of Albert Gackle for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Lower Queen formation in the perforated interval from approximately 3642 feet to 3699 feet in his Sinclair "A" State Well No. 5 located in Unit I of Section 23, Township 23 South, Range 36 East, Langlie-Mattix Pool, Lea County, New Mexico.
- CASE 4057: Application of Charles B. Read for special pool rules, Lea County, New Mexico, Applicant, in the above-styled cause, seeks the promulgation of special rules for the Quail-Queen Pool, Lea County, New Mexico, including a provision for 80-acre spacing and proration units.
- CASE 4058: Application of Hiram W. Keith and Dalton Haines for salt water disposal, Lea County, New Mexico. Applicants, in the above-styled cause, seek authority to dispose of produced salt water into the Seven Rivers formation in the open-hole interval from approximately 3874 feet to 3951 feet in their State Well No. 2 located in Unit K of Section 16, Township 21 South, Range 34 East, West Wilson Pool, Lea County, New Mexico.
- CASE 4059: Application of Hiram W. Keith and Dalton Haines for salt water disposal, Eddy County, New Mexico. Applicants, in the above-styled cause, seek authority to dispose of produced salt water into the Delaware formation in the open-hole interval from approximately 4030 feet to 4158 feet in their Eddy "AGA" State Well No. 2 located 660 feet from the North line and 1650 feet from the West line of Section 36, Township 26 South, Range 31 East, North Mason-Delaware Pool, Eddy County, New Mexico.
- CASE 4060: Application of Sidney Lanier for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Yates-Seven Rivers formations in the open-hole interval from approximately 3402 feet to 3650 feet in his I. B. Ogg "A" Well No. 5 located in Unit 5 of Section 35, Township 24 South,

Examiner Hearing February 26, 1969

(Case 4060 continued)

Range 36 East, Jalmat Yates-Seven Rivers Pool, Lea County, New Mexico.

- CASE 4061: Application of Millard Deck Oil Company for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Seven Rivers and Queen formations in the open-hole interval from approximately 3752 feet to 3872 feet in its Atha Well No. 1 located in Unit M of Section 31, Township 21 South, Range 36 East, South Eunice Pool, Lea County, New Mexico.
- CASE 4062: Application of Kersey & Company for salt water disposal, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Queen formation in the perforated interval from approximately 1835 feet to 1870 feet in the Bass Well No. 3 located in Unit F of Section 12, Township 19 South, Range 28 East, East Millman Queen-Grayburg Pool, Eddy County, New Mexico.
- CASE 4063: Application of Kerr-McGee Corporation for the creation of a new gas pool and special pool rules, Eddy County, New Mexico.

 Applicant, in the above-styled cause, seeks the creation of a new pool for the production of gas from the Morrow formation by its Nix Well No. 1 located in Unit L of Section 11, Town-ship 19 South, Range 26 East, Eddy County, New Mexico, and for the promulgation of special pool rules therefor, including a provision for 640-acre spacing.
- CASE 4064: Application of Atlantic Richfield Company for salt water disposal, Roosevelt County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the San Andres formation in the perforated interval from approximaely 4207 feet to 4286 feet in its Tucker Well No. 4 located in Unit O of Section 23, Township 7 South, Range 32 East, Chaveroo-San Andres Pool, Roosevelt County, New Mexico.
- CASE 4065: Application of Humble Oil & Refining Company for an unorthodox oil well location and reclassification of a water well to an oil well, Lea County, New Mexico. Applicant, in the abovestyled cause, seeks to have its New Mexico State "S" Water Source Well No. 4 (CP-427), located at an unorthodox oil well location 650 feet from the West line and 175 feet from the

February 26, 1969

South line of Section 2, Township 22 South, Range 37 East, Lea County, New Mexico, reclassified as an oil well for the production of oil an undesignated San Andres Oil Pool and authority to produce same as an oil well.

- CASE 4066: Application of Humble Oil & Refining Company for the consolidation of two non-standard gas proration units, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the consolidation of two existing non-standard 320-acre gas proration units into one standard 640-acre unit comprising all of Section 26, Township 21 South, Range 36 East, Eumont Gas Pool, Lea County, New Mexico, to be dedicated to its New Mexico State "G" Wells Nos. 2 and 4 located in Units P and G, respectively, of said Section 26. Applicant further seeks authority to produce the 511-ewable assigned to said unit from either of said wells in any proportion.
- CASE 4067: Application of Benson-Montin-Greer Drilling Corporation for special pool rules, San Guan County, New Mexico. Applicant, in the above-styled cause, seeks the promulgation of special pool rules for the La Plata-Gallup Pool, San Guan County, New Mexico, including a provision for 160-acre specing and proration units. Applicant further requests that said special rules provide that the unit allowable for a 160-acre unit in said pool be allocated on the basis of four times the normal unit allowable for Northwest New Mexico, and that no credit be given for depth factors. Applicant further requests that said special rules be limited in their application to the exterior boundaries of the La Plata-Mandos Unit Area.
- CASE 4068: Application of Martin Yates TII for salt water disposal, Eddy County, New Mexico. Applicant, in the above-styled sause, seeks authority to dispose of produced salt water into the Delaware formation in its Yates & Hanson McCord Well No. 1 located in Unit E of Section 22, Township 23 South, Range 26 East, Dark Canyon Field, Eddy County, New Mexico. Applicant further seeks a procedure whereby its Cordie King Well No. 2 located in Unit K of said Section 22 may be approved for the disposal of salt water without the requirement of notice and hearing.

Docket No. 6-69

CASE 4045:

(Continued from the February 5, 1969 Examiner Hearing)
Application of H & S Oil Company for an amendment to Order
No. R-3357, as amended by Order No. R-3357-A, Eddy County,
New Mexico. Applicant, in the above-styled cause, seeks
the amendment of Order No. R-3357, as amended by Order No.
R-3357-A, which order authorized the H & S West Artesia Unit
Unit Waterflood Project. Applicant proposes to substitute
the Roach Brilling Company-Leonard Well Nc. 18 located in
Unit D of Section 17 as a water injection well in said project
in lieu of the Cities Service-Mell Well No. 17 located in Unit
M of Section 8, both in Township 18 South, Range 28 East,
Artesia Pool, Eddy County, New Mexico.

CASE 4069:

Application of Union Oil Company of California for the creation of a new pool, assignment of discovery allowable, and the promulgation of special pool rules, Lea County, New Mexico.

Applicant, in the above-styled cause, seeks the creation of a new Devonian oil pool for its Midway State Well No. 1 located in Unit F of Section 12, Township 17 South, Range 36 East, Lea County, New Mexico, and for the assignment of an oil discovery allowable in the amount of approximately 57,380 barrells to said well. Applicant further seeis the promulgation of special pool rules for said pool, including a provision for 80-acre proration units.

CASE 4070:

Application of C. E. LaRue and B. N. Muncy, Jr., for salt water disposal, Lea County, New Mexico. Applicants, in the above-styled cause, seek authority to dispose of produced salt water into the salt and Yates formations in the open-hole interval from approximately 1254 feet to 3000feet in the La Rue-Muncy John "B" Well No. 2 located in Unit A of Section 35, Township 17, South, Range 32, East, Maljamar Grayburg-San Andres Pool, Lea County, New Mexico.

Memo

Drom D. S. NUTTEI

D. S. NUTTER

J. Humble Pilt Rifg Co.

reclassify n. M. St. S
Exace water source
Well #4 3/CP-427]

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