

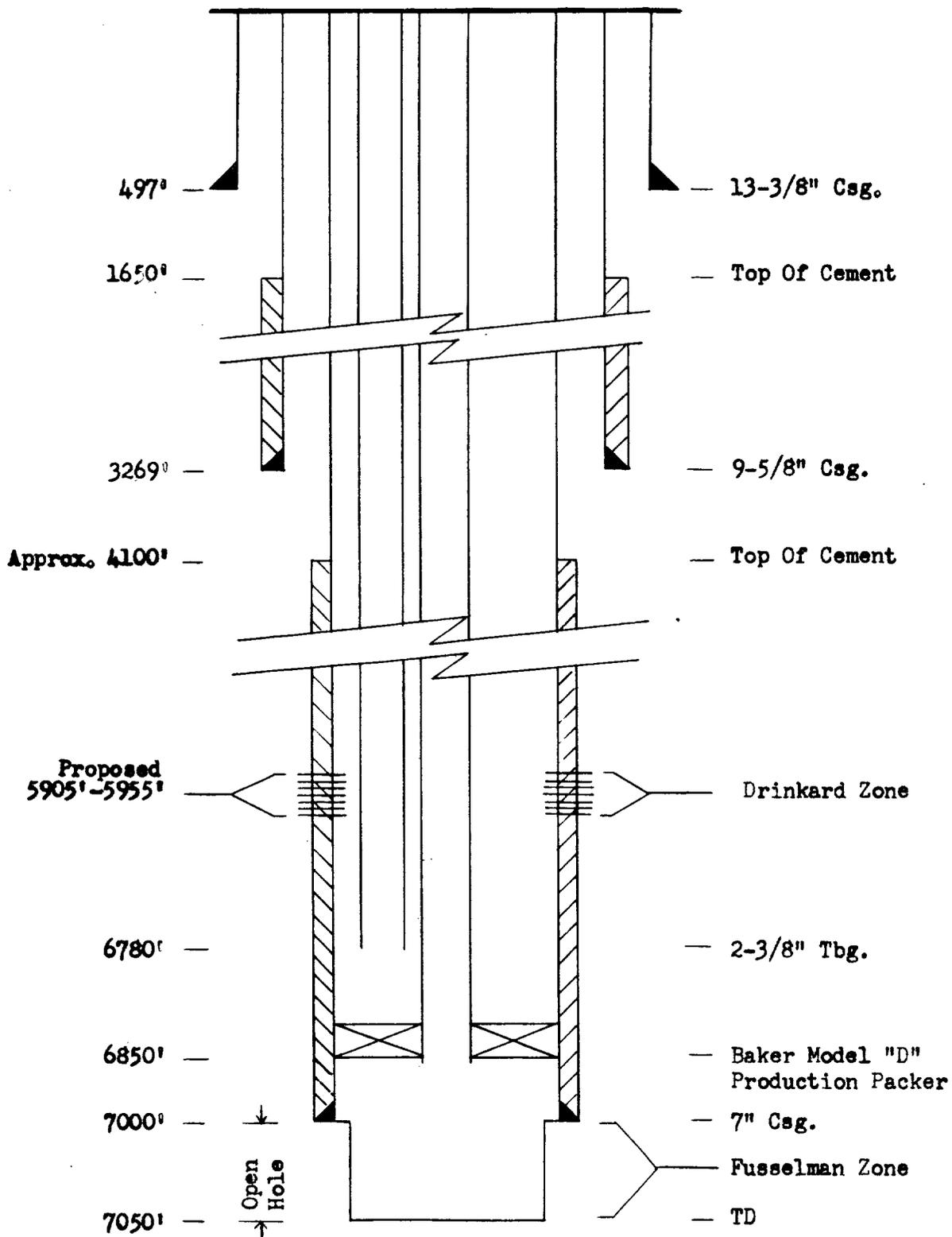
BEFORE THE
OIL CONSERVATION COMMISSION
STATE OF NEW MEXICO
Santa Fe, New Mexico

July 2, 1958

TRANSCRIPT OF HEARING

Case 1477

DEARNLEY - MEIER & ASSOCIATES
GENERAL LAW REPORTERS
ALBUQUERQUE, NEW MEXICO
Phone CHapel 3-6691



AMERADA PETROLEUM CORPORATION

Oil-Oil Dual

Ida Wimberly No. 4

Exhibit No. _____

BEFORE EXAMINER NUTTER

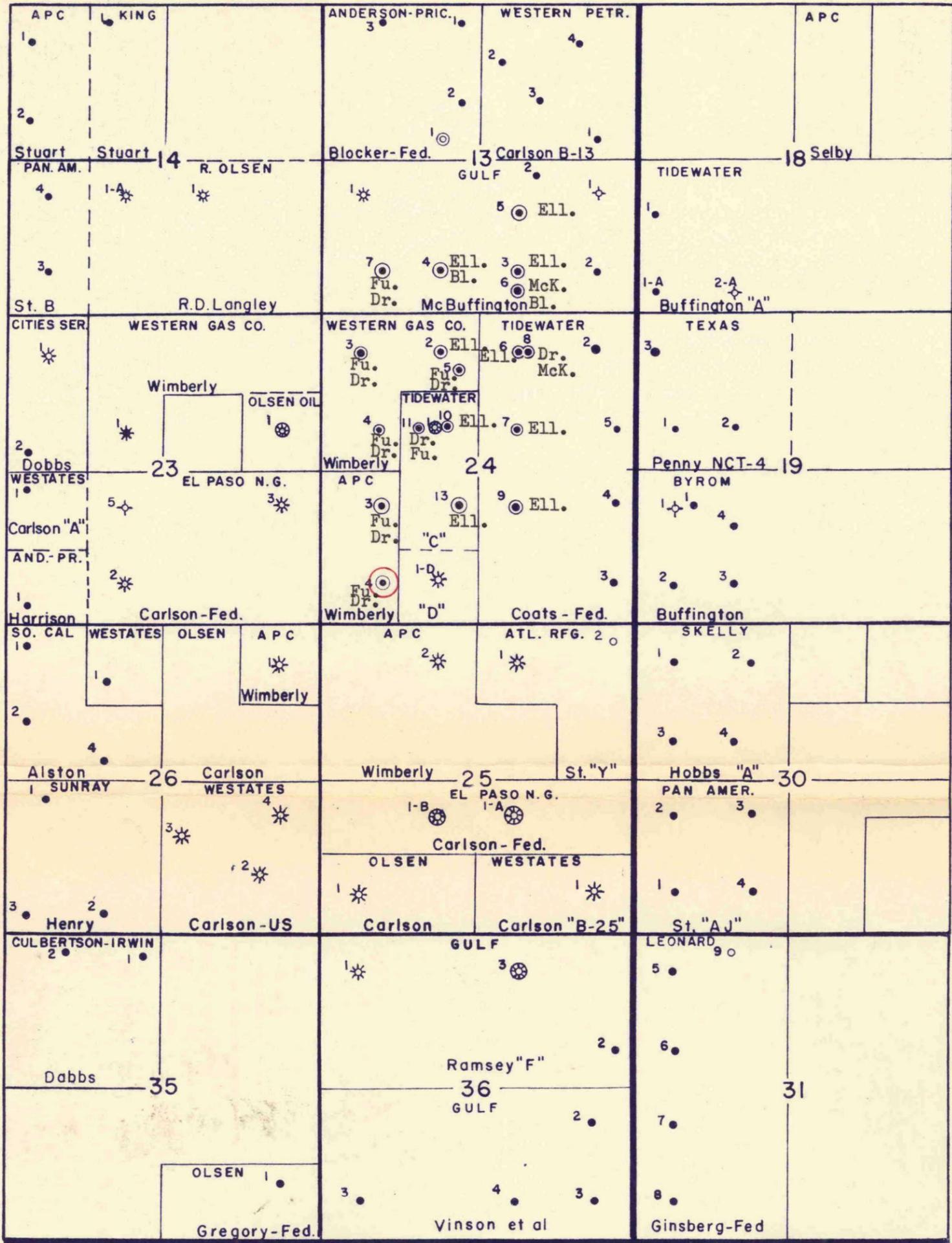
OIL CONSERVATION COMMISSION

Amerada EXHIBIT NO. 2

CASE NO. 1477

R-37-E

R-38-E



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25
S

- Bl. - Blinebry
- Dr. - Drinkard
- Fu. - Fusselman
- McK. - McKee
- Ell. - Ellenburger

JUSTIS AREA
 LEA COUNTY, NEW MEXICO
 SCALE: 1" = 2000'

BEFORE EXAMINER NUTTER
 OIL CONSERVATION COMMISSION
Amerade EXHIBIT NO. 1
 CASE NO. 1477

Exhibit No. _____

BEFORE THE
OIL CONSERVATION COMMISSION
STATE OF NEW MEXICO
Santa Fe, New Mexico
July 2, 1958

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IN THE MATTER OF: :

Application of Amerada Petroleum Corporation :
for a dual completion. Applicant, in the above- :
styled cause, seeks an order authorizing the :
dual completion of its Ida Wimbeley No. 4 Well :
located 660 feet from the South line and 990 : Case
feet from the West line of Section 24, Township : 1477
25 South, Range 37 East, Lea County, New Mexico, :
in such a manner as to permit the production of :
oil from the Drinkard formation adjacent to the :
Justis-Drinkard Pool and oil from the Fusselman :
formation adjacent to the Justis-Fusselman Pool :
through parallel strings of 2-3/8" tubing. :

-----:
BEFORE:

Mr. Daniel S. Nutter, Examiner

TRANSCRIPT OF HEARING

MR. PAYNE: Case 1477. In the matter of the application
of Amerada Petroleum Corporation for a dual completion.

MR. KELLAHIN: Jason Kellahim with Kellahin and Fox,
Santa Fe, New Mexico, representing the Applicant. We have one
witness, Mr. Broschat.

(Witness sworn.)

RICHARD E. BROCHAT

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

DIRECT EXAMINATION

By MR. KELLAHIN:

Q Will you state your name and spell it for the Reporter, please?

A My name is Richard E. B-r-o-s-c-h-a-t.

Q By whom are you employed and in what position, Mr. Broschat?

A I'm employed by Amerada Petroleum Corporation as District Engineer, Monument, New Mexico.

Q Have you previously testified before this Commission?

A No, I have not.

Q Would you state briefly your education and experience as a petroleum engineer?

A I received a Bachelor of Science degree from North Dakota State College in mechanical engineering in 1949, and I received a Master of Science degree in mechanical engineering in Iowa State College in 1950. I then spent two years in the service and since 1953 I have been employed by Amerada Petroleum Corporation as a petroleum engineer in North Dakota, Texas and New Mexico.

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

MR. NUTTER: They are. Please proceed.

Q Mr. Broschat, are you familiar with the application in Case 1477? A I am.

Q Referring to what has been marked as Exhibit No. 1, would you state what that is?

A Exhibit No. 1 is a map of the Justis Area, Lea County, New Mexico, showing a location of the wells, the subject well Wimberly No. 4 circled in red. It also shows lease ownership and it also shows formations in which wells have been dually completed.

Directly to the North of the Wimberly 4 is the Amerada Wimberly 3 which has been dually completed in the Drinkard and Fusselman, and the Commission has just granted this application and the type of completion used in Wimberly 3 is similar to this completion proposed here.

Q The other completions shown in the vicinity where there are duals, it does show that a number of them have been dually completed in the Drinkard and Fusselman? A Yes.

Q That is designated by the Fu. and Dr.?

A Yes.

Q Could you tell us what the location of that well is?

A The well is located in the Southwest Quarter of the Southwest Quarter of Section 24, Township 25 South, Range 37 East.

Q It is 660 from the South line and 990 from the West line of the section, is that correct? A That is correct.

Q Now, are you familiar with what is proposed to be done with this well? A Yes, I am.

Q Would you refer to what has been marked as Exhibit No. 2 and outline to the Commission what is the proposal?

A Exhibit No. 2 is a diagrammatic sketch of the proposed

dual completion. It shows the setting of the surface pipe at 479 feet, setting of the intermediate string of 9 5/8" casing and 3269. The top of the cement around the mediate string at 1650 feet, it shows the depth of the 7" oil string at 7,000 feet, top of the cement around this oil string will be approximately 4100 feet. It shows the proposed perforations in the Drinkard Zone from 5905 to 5955, proposed open hole completion in the Fusselman from 7,000 feet to 7,050 feet. It shows the setting of a Baker Model "D" Production Packer at 6850 feet.

Q What size tubing do you propose to use?

A We propose to use two parallel strings of 2 3/8" tubing.

Q Do you know the inside diameter?

A It is normally two inches.

Q What is the present status of this well?

A At the present time the well has been completed in the Fusselman and we are now testing the Drinkard.

Q With this type of completion, Mr. Broschat, will that prevent communication between the two producing zones?

A Yes, with a Baker Model "D" Production Packer, it will prevent communication.

Q Will it enable you to make any necessary tests and remedial work that may be indicated in this well?

A Yes. It will enable us to take the Packer leakage tests as required by the Commission and any other tests, and it will

enable us to do any remedial work that we can't foresee at the present time.

Q Are you familiar with the gravities of the fluids in the two zones in which you propose to dually complete?

A Yes, the gravity of the oil in the Fusselman is 36.6 degrees; the gravity of oil in the Drinkard is 38.3 degrees.

Q How about the pressures?

A We have static bottomhole pressures on our Wimberly 3. Bottomhole pressure in the Drinkard at a minus 2800 feet was 2662, the bottomhole pressure in the Fusselman at minus 3900 feet is 2853 P.S.I.

Q Do you have any information on the gas-oil ratios?

A Yes, the gas-oil ratio in the Drinkard is measured in our Wimberly 3, was 711 and in the Fusselman was 885.

Q Are there any appreciable amounts of water produced from either zone?

A At the present time neither zone is producing any appreciable water.

Q It is primarily a solution gas drive reservoir in both zones?

A Information we have at present would indicate that.

Q In the event it were necessary to put either or both of these zones on a pump, would it be possible with this type of completion to produce them in that fashion?

A Yes, it would.

Q Do you have any information on the recent cost of a single completion in the two zones as compared to the proposed dual?

A Yes. The cost of a single well to the Drinkard would be approximately \$113,600.00. The cost of a single well to the Fusselman, \$136,000.00, making a total of \$249,600.00 for two single completions. The cost of a dual completion is \$156,800.00. So a dual completion would result in a saving of \$92,800.00.

Q In your opinion, is the proposed application in the interest of conservation and the prevention of waste?

A Yes.

MR. KELLAHIN: At this time we would like to offer in evidence Exhibits No. 1 and 2.

MR. NUTTER: Is there objection to the introduction of Amerada's Exhibits 1 and 2? If not they will be received.

MR. KELLAHIN: That's all the questions I have.

MR. NUTTER: Anyone have any questions of Mr. Broschat? If not, the witness may be excused.

(Witness excused.)

Does anyone have anything further they wish to offer in this case? We will take the case under advisement and take a ten minute break.

(Recess.)

MAIN OFFICE OCC

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