

Case No.

349

Application, Transcript,
Small Exhibits, Etc.

BEFORE THE
OIL CONSERVATION COMMISSION
STATE OF NEW MEXICO

In the Matter of Ohio Oil
Company's application for
approval of dual completion
for its Lou Wortham Well No.
12, SENE J1-22S-37E, Drink-
ard pool.

No. 349

TRANSCRIPT OF HEARING

March 20, 1952

E. E. GREESON
ADA DEARNLEY
COURT REPORTERS
BOX 1403
PHONES 5-9422 AND 5-9546
ALBUQUERQUE, NEW MEXICO

(Mr. Graham reads notice of publication.)

(Witness sworn.)

MR. SPELLMAN: I am D. K. Spellman, Jr., district engineer of the Ohio Oil Company, from Midland, Texas.

The well in question, since the application, has been completed, and in the Drinkard as an oil well producing through tubing, and in the Blinebry as a gas well producing -- possibly will produce through the casing. The Drinkard was perforated from 6,440 to 6,460 and from 6,468 to 6,482. The Blinebry was perforated from 5,388 to 5,422, and from 5,448 to 5,494. A Baker Model D production packer has been set in the well at a depth of 6,410 ft, with an Otis landing nipple and side-door choke set at 6,397. Since completion the well has been tested for positive shut off and it has been ascertained there is no communication between the Drinkard and the Blinebry zones.

I would like at this point to submit some -- an electric log of the well, which I have marked Exhibit 1 in Case 349. I also have a Lane Wells radio activity log showing the perforations and the amount of acid used and the packer setting depth and the casing setting depth and the side-door setting depth, which I have marked Exhibit 2 in Case 349.

Mr. Tom A. Steel, Jr., of our Hobbs office, witnessed the landing of the Baker Model D packer, and I submit his notarized statement as to the depth of the packer setting as Exhibit 3.

Subsequent to bringing in both zones, the well has been tested as I said, and no communication was found between the two zones.

And I have here as Exhibit 4 in Case 349 a notarized statement by Mr. W. M. Curley, Jr., as to the data taken for the packer leakage test. Exhibit 4.

MR. SPURRIER: You wish to offer these exhibits in evidence?

MR. SPELLMAN: Yes, sir.

MR. SPURRIER: Without objection, they will be received. Exhibits 1 to 4. Does anyone have a question of the witness? Mr. Graham.

MR. GRAHAM: Have you contacted the offset operators for any objection to your proposal?

MR. SPELLMAN: No, sir, we didn't contact any of them. In reading the procedures, why --

MR. GRAHAM: Are there similar projects in the immediate vicinity?

MR. SPELLMAN: Yes, sir, there are. All through that area in fact. I think there are several cases on the docket today around there. Here is one. Cone, Markham & Redfern, oil from the Drinkard and gas from the Blinbry in 14-21-37.

MR. GRAHAM: You are familiar with the usual type of order issued by the Commission?

MR. SPELLMAN: Yes, sir, I have read it.

MR. GRAHAM: And are willing to comply with --

MR. SPELLMAN: -- yes, sir. At whatever intervals the Commission wants, we will test our completion to ascertain that there is still no -- or that no communication remains, is in effect. There is no communication. That is what I am trying to say.

MR. SPURRIER: Are there any other question? If not, the witness may be excused, and the case will be taken under advisement.

STATE OF NEW MEXICO

COUNTY OF BERNALILLO

ss

I HEREBY CERTIFY That the foregoing transcript is a true record of the matters therein contained.

DONE at Albuquerque, N. M., March 22, 1952.

E. E. Green
Notary Public

My Commission Expires: 8-4-52

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. 349
ORDER NO. R-139

THE MATTER OF THE APPLICATION
OF OHIO OIL COMPANY FOR AN ORDER
PERMITTING DUAL COMPLETION OF ITS
LOU WORTHAM NO. 12, SE NE 11-22S-37E,
NMPM, DRINKARD POOL, LEA COUNTY,
NEW MEXICO

ORDER OF THE COMMISSION

BY THE COMMISSION:

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

NOW, on this ¹⁵// day of April, 1952, the Commission, a quorum being present, having considered the testimony adduced and the records in the matter as presented at the hearing,

FINDS:

(1) That due notice having been given as required by law, the Commission has jurisdiction of the case and the persons and subject matter thereof.

(2) That applicant's Wortham No. 12 well, SE NE 11-22S-37E, NMPM, was completed in March, 1952, as an oil well in the Drinkard pool, bottomed at 6516 feet, and produced from the perforated interval 6440-6482, having drilled through the Blinbry gas zone (5388-5494).

(3) That although recent experiments tend to show that mechanical packers and other devices are ordinarily available for successful dual or multiple completions of oil and gas wells, the Commission is unconvinced of the soundness of such dual-multiple completions as a general practice in New Mexico without specific controls over each such project.

IT IS THEREFORE ORDERED:

That, effective as of March 20, 1952, the applicant herein, the Ohio Oil Company, be and it hereby is authorized to dually complete and produce its Wortham No. 12 well, located in the SE/4 NE/4 Section 11, Township 22 South, Range 37 East, NMPM, Lea County, New Mexico, in such a manner that gas from the Blinbry formation may be produced through the annular space between the casing and tubing, and oil from the Drinkard formation through the tubing by proper perforations and installation of proper packer or packers;

PROVIDED, HOWEVER, That subject well shall be completed, and thereafter produced, in such a manner that there will be no commingling within the well bore, either within or outside the casing, of gas, oil and gas, or oil produced from either or both of the separate strata, and,

Case No. 349
Order No. R-139

PROVIDED FURTHER, That said subject well for dual completion and production shall be equipped in such a way that reservoir pressures may be determined separately for each of the two specified strata, and further, be equipped with all necessary connections required to permit recording meters to be installed and used at any time as may be required by the Commission or its representatives, in order that natural gas, oil, or oil and gas from each separate stratum may be accurately measured and the gas-oil ratio thereof determined, and,

PROVIDED FURTHER, That the operator-applicant shall make any and all tests, including segregation tests, but not excluding other tests and/or determinations at any convenient time, and in such manner as deemed necessary by the Commission; the original and all subsequent tests shall be witnessed by representatives of the Commission and by representatives of offset operators, if any there be, at their election, and the results of each test properly attested to by the applicant herein and all witnesses, and shall be filed with the Commission within ten (10) days after the completion of such test, and,

PROVIDED FURTHER, That upon the actual dual completion of such subject well, applicant shall submit to the Commission a diagrammatic sketch of the mechanical installation which was actually used to complete and produce the seal between the strata, and a special report of production, gas/oil ratio and reservoir pressure determination of each producing zone or stratum immediately following completion.

IT IS FURTHER ORDERED, That jurisdiction of this cause is hereby retained by the Commission for such further order or orders as may seem necessary or convenient for the prevention of waste and/or protection of correlative rights; upon failure of applicant to comply with any requirement of this order after proper notice and hearing, the Commission may terminate the authority hereby granted and require applicant or its successors and assignees to limit its activities to regular single-zone production in the interest of conservation.

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

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

Edwin L. Mecham

EDWIN L. MECHEM, CHAIRMAN

Guy Shepard

GUY SHEPARD, MEMBER

R. R. Spurrer

R. R. SPURRIER, SECRETARY

S E A L

OIL CONSERVATION COMMISSION

P. O. BOX 871
SANTA FE, NEW MEXICO

April 23, 1952

Mr. Coe S. Mills
The Ohio Oil Company
Box 552
Midland, Texas

Dear Sir:

We enclose signed copy of Order R-139 issued in Case 349
by the Oil Conservation Commission of New Mexico.

Very truly yours,

W. B. Macey
Chief Engineer

WBH:mr

PACKER SETTING AFFIDAVIT

I, T. A. S. Steele, Jr., being of lawful age
 Name of Party Making Affidavit
 and having full knowledge of the facts hereinbelow set out do state:

That I am employed by The Ohio Oil Company in the
 capacity of Petroleum Engineer, that on March 4, 1952
 Date
 I personally supervised the setting of a Baker Model "D"
 Make and Type of Packer
 in The Ohio Oil Company, Lou Wortham
 Operator of Well Lease Name
 Well No. 12 located in the Drinkard, Lea
 Field
New Mexico
 County, TEXAS, at a subsurface depth of 6410 feet, said depth

measurement having been furnished me by Welex Jet Services;
 that the purpose of setting this packer was to effect a seal in the annular
 space between the two strings of pipe where the packer was set so as to pre-
 vent the commingling, in the bore of this well, of fluids produced from
 a stratum below the packer with fluids produced from a stratum above the
 packer; that this packer was properly set and that it did, when set, effect-
 ively and absolutely seal off the annular space between the two strings of
 pipe where it was set in such manner as that it prevented any movement of
 fluids across the packer.

NEW MEXICO
 STATE OF ~~TEXAS~~
 COUNTY OF _____

Before me, the undersigned authority, on this day personally appeared
T. A. S. Steele, Jr., known to me to be the person whose
 name is subscribed to this instrument, who after being by me duly sworn on
 oath, states that he has knowledge of all the facts stated above and that
 the same is a true and correct statement of the facts therein recited.

T. A. S. Steele, Jr.

Subscribed and sworn to before me on this the 13 day
 of March, 1952

J. F. Small
 Notary Public in and for
Lea County, ~~TEXAS~~
 New Mexico

THE OHIO OIL COMPANY

Packer Leakage Test

Field Name: Drinkard Location: Lou Wortham Well No: 12
 Address: Hebba P. O. Box No: 2107 County: Lea State New Mexico

Test No. 1

Date and time well shut in: March 15, 1952, 8:00 A.M. (Both Completions)
 DATA ON PRODUCING COMPLETION: Date & Time Well Opened March 16, 1952, 8:00 A.M.
 Completion producing Tubing Reservoir Drinkard Choke Size 1 1/2 inches
 Stabilized shut-in pressure prior to test: 1905 p.s.i.
 Stabilized flowing pressure during test: 100 - 150 p.s.i.
 Length of time required for stabilization of flowing pressure: 1 1/4 hours
 Stabilized shut-in pressure at the end of the test: 1875 p.s.i.
 Length of time required for obtaining this stabilized shut-in pressure: 12 hours

DATA ON SHUT-IN COMPLETION:

Completion shut in Casing Reservoir Blinbry
 Stabilized shut-in pressure prior to test: 1930 p.s.i.
 Shut-in pressure during test: Minimum: 1930 p.s.i.; Maximum: 1930 p.s.i.
 Stabilized shut-in pressure at the end of the test: 1930 p.s.i.
 Length of time required for obtaining this stabilized pressure at the end of the test: Immediately hours.
 Maximum pressure change of shut-in completion during test: None p.s.i. (increase) (decrease)

REMARKS:

I HEREBY CERTIFY that all dates and facts set forth on this form are true and correct.

W. M. Kearley Jr. for The Ohio Oil Company
 (Representative making test)

SWORN TO AND SUBSCRIBED Before me this 17 day of March 1952

(Notary Seal)

Edm. L. Loefer
 My Commission Expires August 19, 1954
 Notary Public in and for Lea County
New Mexico

The Ohio Oil Co.

XXXXXXXXXX
XXXXXXXXXXXXXX

P. O. Box 552
Midland, Texas
February 11, 1952

New Mexico Oil Conservation Commission
P. O. Box 871
Santa Fe, New Mexico

Gentlemen:

The Ohio Oil Company respectfully requests that the Oil Conservation Commission of New Mexico place on the docket of its regular March 20, 1952 hearings this application of Ohio for authorization to dually complete its Lou Wortham, Well No. 12, now drilling in the SE/4, NE/4, Section 11, Township 22 South, Range 37 East, in the Drinkard Pool, Lea County, New Mexico.

Ohio plans to complete this well as an oil well in the Drinkard pay. Ohio is also desirous of completing this well dually in the Blinebry gas pay in such a manner as to produce Blinebry gas through the annulus between the tubing and casing and Drinkard oil through the tubing.

Ohio intends to install such efficient packer in this well and perform completion on this well in such a manner as will prevent waste in either reservoir.

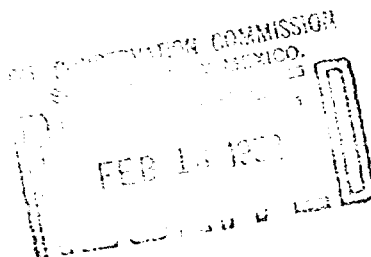
At the time hearing is called on this application, Ohio will present data showing the completion program on this well and plans for future tests to be made regularly to determine that waste is not occurring in either reservoir.

Respectfully submitted,

THE OHIO OIL COMPANY

Coe S. Mills
Coe S. Mills
District Manager
Midland District

CSM:DKS/jj



OIL CONSERVATION COMMISSION
P. O. BOX 871
SANTA FE, NEW MEXICO

March 6, 1952

C
O
P
Y

Mr. Coe S. Mills
The Ohio Oil Company
Box 552
Midland, Texas

Dear Sir:

RE: OOC Case 349

Your company's application for permission to dually complete the Lou Wortham Well No. 12, SE NE 11-22S-37E, NMPN, has been scheduled as Case 349 and set for the regular March 20, 1952, hearing, at 9 a.m., Mabry Hall, Santa Fe.

Proper legal advertising has been issued.

We wish to call your attention to the fact that the Commission should receive applications for hearing in triplicate.

Very truly yours,

W. B. Macey
Chief Engineer

WBM:mr