

Case No.

517

Application, Transcript,
Small Exhibits, Etc.

NO
CASE 517: Western Natural Gas Company
Dual Completion Lankford Well No. 1
NE 1/4 25-23S-36E Les County

BEFORE THE
OIL CONSERVATION COMMISSION
STATE OF NEW MEXICO

Santa Fe, New Mexico
March 17, 1953

TRANSCRIPT OF HEARING
CASE NO. 517

OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
MAR 30 1953

ADA DEARNLEY & ASSOCIATES
COURT REPORTERS
ROOM 12, CROMWELL BLDG.
PHONES 7-9645 AND 5-8546
ALBUQUERQUE, NEW MEXICO

BEFORE THE
OIL CONSERVATION COMMISSION
STATE OF NEW MEXICO

Santa Fe, New Mexico
March 17, 1953

In the Matter of:

Western Natural Gas Company's application
to dually complete (gas-oil) its Lankford
Well No. 1, NE NW, 25-23S-36E, Langlie-
Mattix Oil Pool and Langmat Gas Pool, Lea
County.

Case No. 517

TRANSCRIPT OF HEARING

(Notice of Publication read by Mr. Graham.)

MR. TOWN DAN: Roland Towndan, representing Western Natural
Gas Company. I would like to present the witness, Mr. McCoy of
the Western Natural Gas Company.

R. H. MCCOY,

having been first duly sworn, testified as follows:

DIRECT EXAMINATION

By MR. TOWN DAN:

Q State your name.

A R. H. McCoy.

Q You are representing?

A Western Natural Gas.

Q Have you ever testified before the Oil Conservation Commis-
sion?

A I haven't.

Q Would you state your qualifications?

A I am Division Superintendent for the West Texas-New Mexico

ADA DEARNLEY & ASSOCIATES
COURT REPORTERS
ROOM 105-106, EL CORTEZ BLDG.
PHONES 7-9645 AND 5-9546
ALBUQUERQUE, NEW MEXICO

for Western Natural Gas.

MR. TOWN DAN: Are those qualifications sufficient?

MR. SPURRIER: Yes.

Q Are you acquainted with this application?

A I am.

MR. TOWN DAN: We have here four exhibits. We would like the witness to explain and then to present them as evidence to be filed with the Commission.

Q Would you explain these four exhibits, please, to the Commission?

A Exhibit A is a plat of the well and all the off-set operators.

Q Exhibit B?

A Exhibit B is a diagram of the current completion status of the well, as it is now. Exhibit C is a diagram of the well as it will be completed. Exhibit D is Lane Wells radio active log.

MR. TOWN DAN: That is all we have.

MR. SPURRIER: Any questions?

MR. WHITE: What kind of packer?

A Baker Production Packer.

MR. SPURRIER: How many acres will you assign to this gas production, do you know?

A 160.

MR. SPURRIER: 160?

A Yes, sir.

MR. SPURRIER: Any questions of the witness? If not the witness may be excused.

(Witness excused.)

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ROOM 105-106, EL CORTEZ BLDG.
PHONES 7-9645 AND 5-9546
ALBUQUERQUE, NEW MEXICO

MR. SPURRIER: Do you offer the exhibits in evidence?

MR. TOWN DAN: We offer the exhibits in evidence to be filed with the Commission.

MR. SPURRIER: Without objection they will be received. We will take the case under advisement.

STATE OF NEW MEXICO)
COUNTY OF BERNALILLO) SS.

I, ADA DEARNLEY, hereby certify that the above and foregoing transcript of proceedings in Case No. 517, taken before the Oil Conservation Commission on March 17, 1953, at Santa Fe, New Mexico, is a true and correct record.

Dated in Albuquerque, New Mexico, this 25th day of March, 1953.


Notary Public

My Commission Expires:
June 19, 1955.

ADA DEARNLEY & ASSOCIATES
COURT REPORTERS
ROOM 105-106, EL CORTEZ BLDG.
PHONES 7-9645 AND 5-9546
ALBUQUERQUE, NEW MEXICO

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. 517
Order No. R-306

THE APPLICATION OF WESTERN NATURAL
GAS COMPANY FOR AN ORDER GRANTING
PERMISSION TO DUALY COMPLETE AND
PRODUCE ITS LANKFORD WELL NO. 1,
LOCATED IN THE NE/4 NW/4 OF SECTION
25, TOWNSHIP 23 SOUTH, RANGE 36 EAST,
NMPM, 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 17, 1953, at Santa Fe, New Mexico, before the Oil Conservation Commission, hereinafter referred to as the "Commission".

NOW, on this 31ST day of *MARCH*, 1953, the Commission, a quorum being present, having considered the records and the testimony adduced, and being fully advised in the premises,

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 the applicant's Lankford Well No. 1, NE/4 NW/4 Section 25, Township 23 South, Range 36 East, NMPM, Lea County, New Mexico, was completed in March 1940 as an oil well producing from the Seven Rivers-Queen formation of the Langlie Mattix Pool in the open-hole interval 3475-3600, having drilled through the Yates formation of the Langmat Gas Pool at an approximate depth of 2940-3150.

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

IT IS THEREFORE ORDERED:

That the applicant herein, Western Natural Gas Company, be, and it hereby is authorized to dualy complete and produce its Lankford Well No. 1, NE/4 NW/4 Section 25, Township 23 South, Range 36 East, NMPM, Lea County, New Mexico, in such a manner that gas from the Yates formation of the Langmat Gas Pool may be produced through the annular space between the casing and the tubing, and oil from the Seven Rivers-Queen formation of the Langlie-Mattix Pool through the tubing by proper perforations and the installation of a proper packer;

Case No. 517 - Order No. R-306

PROVIDED, HOWEVER, That upon the actual dual completion of such subject well applicant shall submit to the District Office of the Commission in which the subject well is located Form C-103, Form C-104, Form C-110 and Form C-122 outlining the information required on these forms by existing Rules and Regulations.

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,

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 assigns to limit its activities to regular single-zone production in the interests of conservation.

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

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION


EDWIN L. MECHEM, Chairman


E. S. WALKER, Member


R. R. SPURRIER, Secretary

S E A L

Case 517

Western Natural Gas Company

NATIONAL STANDARD BUILDING

Houston 2, Texas

February 6, 1953

ADDRESS CORRESPONDENCE TO
MIDLAND TOWER BUILDING
MIDLAND, TEXAS

RE: Application to Dually Complete
Western Natural Gas Company
Lankford #1, in Langlie Mattix
Field, Lea County, New Mexico

Oil Conservation Commission
State of New Mexico
Santa Fe, New Mexico

Gentlemen:

By means of this application, Western Natural Gas Company wishes to state the following:

- (a) Western Natural Gas Company Lankford #1, located in the NE/4 of NW/4 of Section 25, T-23S, R-36E, Lea County, was completed March 17, 1940, at a total depth of 3600 feet. The well had 5½" casing set at 3475 feet. Ground elevation was 3354 feet.
- (b) Appended Exhibit A shows the location of the subject well, other wells on the same lease and all offset wells to the Western Natural Gas Company Lankford #1.
- (c) The subject well was completed as an oil well producing in the open hole section from 3475' to 3600' from the 7 Rivers - Queens formation. A schematic diagram of the current well completion is shown in Exhibit B.

(d) The applicant proposes to dually complete the well to produce oil from the 7 Rivers - Queens formation through the tubing and gas from the Yates formation through the tubing - casing annulus in the following manner:

- (1) Perforate the $5\frac{1}{2}$ inch casing from approximately 2940 feet to 3150 feet opposite the Yates formation.
- (2) Set a production packer below the casing perforations at an approximate depth of 3460 feet to separate the two pay zones.

The manner and method of the dual completion is shown in the schematic diagram as Exhibit C.

- (e) Appended Exhibit D is a Lane Wells Gamma-Ray Neutron Log run on subject well November 16, 1950, during a workover.
- (f) Granting of this application for permission to produce the well as a dual completion with oil from the 7 Rivers - Queens formation and gas from the Yates formation is in the interest of conservation and protection correlative rights.
- (g) The applicant will comply with all rules and regulations of the New Mexico Oil Conservation Commission to maintain separation of production from the two pay zones.
- (h) The manner and method of the proposed dual completion is mechanically feasible and practical.

Therefore, Western Natural Gas Company requests that the New Mexico Oil Conservation Commission set a certain day upon which this application may be heard and after said hearing to grant permission in order that the applicant may dually complete the subject well as proposed in this application.

Respectfull submitted,

WESTERN NATURAL GAS COMPANY

Earl R. Bruno

Earl R. Bruno
Division Engineer

Encl: Exhibit A: Plat showing location
of subject well, other
wells on same lease and
all offset wells.

Exhibit B: Schematic diagram of subject
well completion.

Exhibit C: Manner and method of dual
completion proposed in
subject well.

Exhibit D: Gamma Ray-Neutron Log of
subject well.

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

April 8, 1953

C
O
P
Y
Western Natural Gas Company
Midland Tower Building
MIDLAND, TEXAS

Attention: Mr. Earl R. Bruno

Gentlemen:

We attach two official copies of Order R-306 issued by the Oil Conservation Commission in Case 517, heard on your petition at the March 17 hearing.

Very truly yours,

W. B. Macey
Chief Engineer

WBM:nr

EXHIBIT B - SCHEMATIC DIAGRAM OF CURRENT COMPLETION STATUS
OF WESTERN NATURAL GAS COMPANY LANRFO[#] I

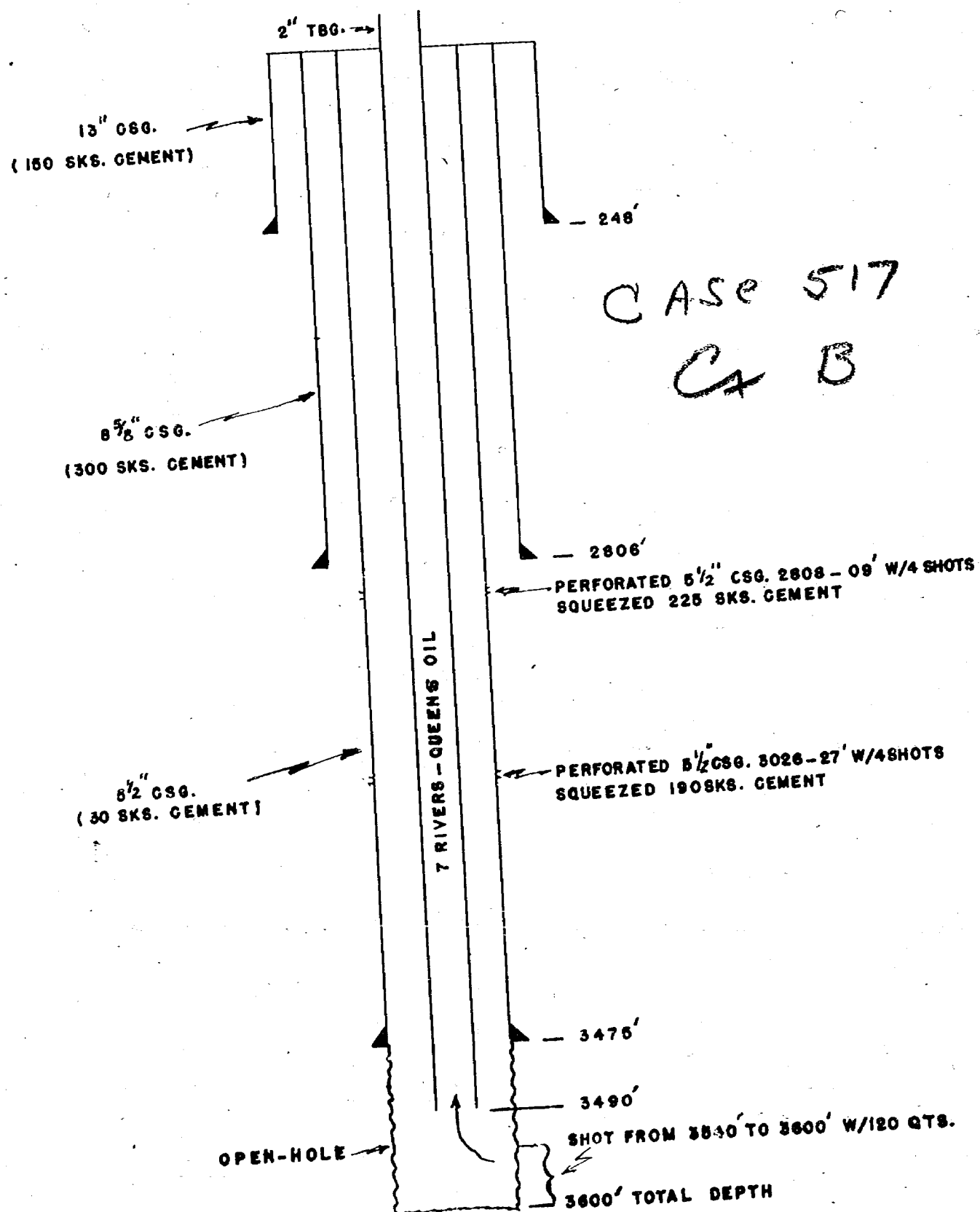


EXHIBIT C - SCHEMATIC DIAGRAM OF PROPOSED DUAL COMPLETION
WESTERN NATURAL GAS COMPANY LANKFORD[#] 1

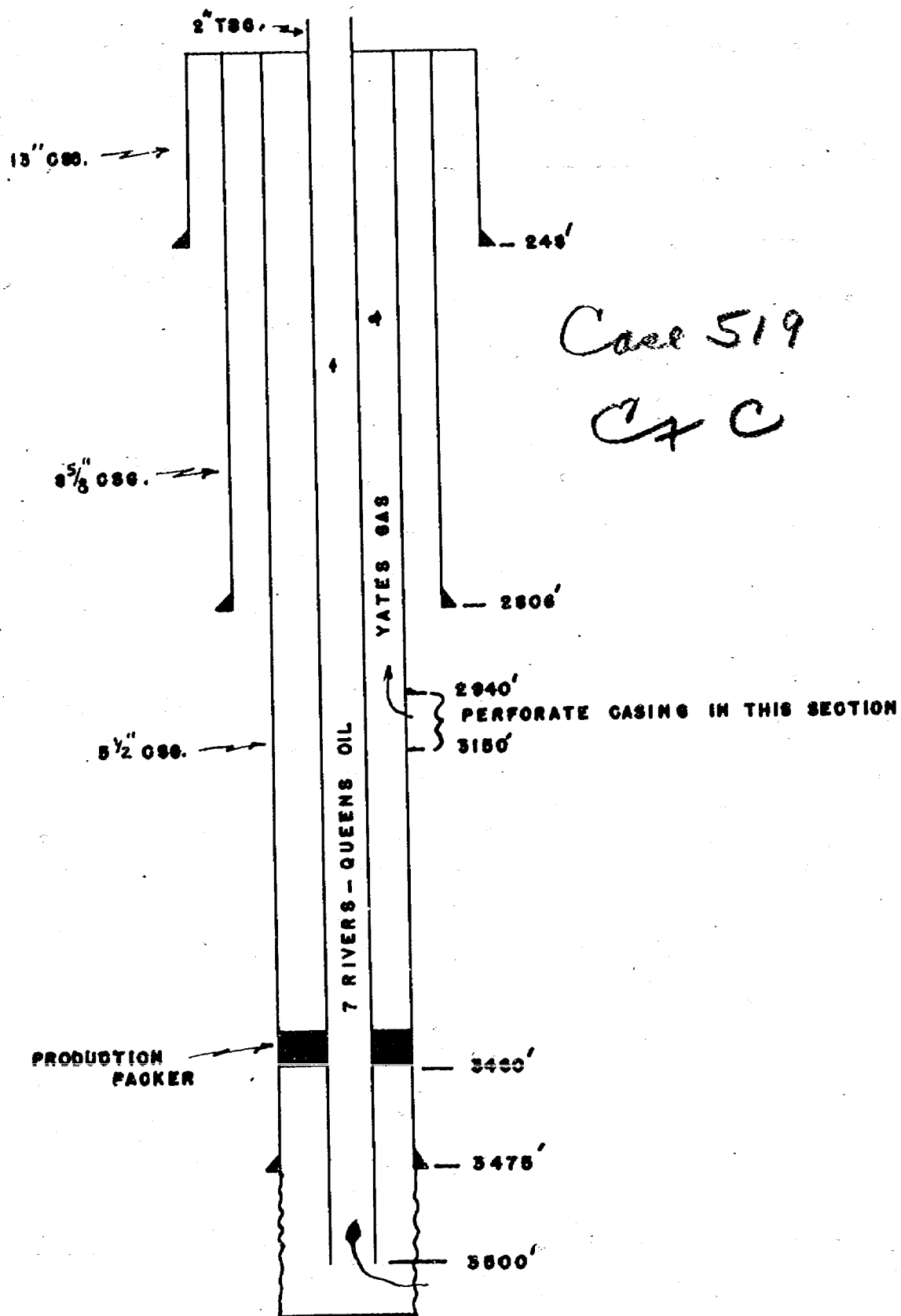
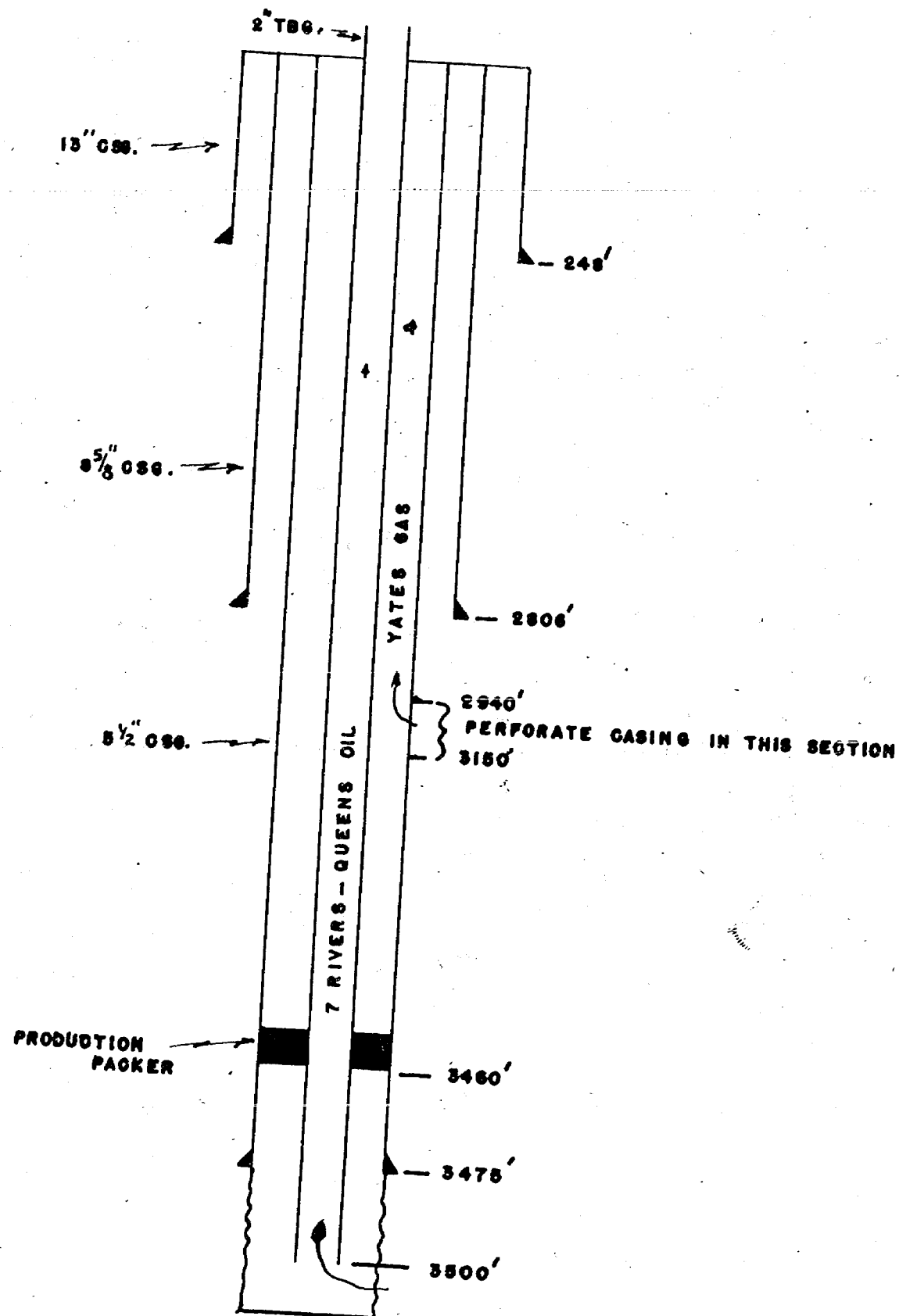


EXHIBIT C - SCHEMATIC DIAGRAM OF PROPOSED DUAL COMPLETION
WESTERN NATURAL GAS COMPANY LANKFORD # 1



Leg. to
Arthur
2/2/4
