

Case No.

344

Application, Transcript,
Small Exhibits, Etc.

BEFORE THE
OIL CONSERVATION COMMISSION
STATE OF NEW MEXICO

In the Matter of the appli-
cation of Cone, Markham &
Redfern for dual completion
of Eubanks No. 1 well, SWSW
14-21S-37E.

No. 344

TRANSCRIPT OF HEARING

March 20, 1952

E. E. GREESON
ADA DEARNLEY
COURT REPORTERS
BOX 1303
PHONES 5-9422 AND 5-9546
ALBUQUERQUE, NEW MEXICO

(Mr. Graham reads the notice of publication.)

MR. STORM: L. O. Storm, representing Cone, Markham & Redfern. If it please the Commission, in the matter of the application to dually complete Cone, Markham & Redfern's Eubanks No. 1, this well was originally completed in the Drinkard oil pool in April 1949, producing from the open hole at an interval of 6,512 to 6,617 ft. We now request from the Commission permission to enter that well and perforate the casing and at the interval, approximate interval, 5,545 to 5,655 opposite the Blinbry formation.

MR. SPURRIER: Mr. Storm, do you appear as an expert witness in this case?

MR. STORM: I can if the Commission so wishes.

MR. GRAHAM: Do you have another witness?

MR. STORM: No, sir.

(Mr. Storm sworn.)

MR. STORM: Would the Commission like my qualifications?

MR. SPURRIER: Have you qualified before before the Commission?

MR. STORM: I don't believe so. I am a graduate petroleum engineer from the Colorado School of Mines, and a registered professional engineer in the State of Texas.

MR. SPURRIER: That is sufficient.

MR. STORM: Upon perforating opposite the Blinbry zone, we propose to install adequate packer equipment and tubing,

the packer to be located below the Blinebry perforations so as to prevent commingling of the hydrocarbons from the Drinkard and Blinebry zones. Upon completion of that well, we will test the well for communication and supply the Commission with our findings.

That is all on that case.

MR. SPURRIER: Do you want to take up Case 346?

MR. STORM: I think it would be appropriate.

MR. SPURRIER: Are there any questions on Case 344? Correct the record, Mr. Greeson. The next case is 345. Are there any questions on 344?

MR. MACEY: I would like to ask what type of packer equipment you intend to use?

MR. STORM: We propose to use Sweet Oil Well Equipment side wall packer with side door chokes above in order to permit individual pressures of each zone.

MR. MACEY: What type of test do you contemplate?

MR. STORM: Upon completion of the well, we will conduct production tests to ascertain gas-oil ratio of the Drinkard zone, and the gas and liquid production rate from the Blinebry zone. We will conduct what normally is called interference or communication tests by attaching a recording pressure tube to each side of the dual completion to obtain pressure charts, both shut-in and flowing to indicate whether there is any pressure communication existing between the two zones. I might

point out that the Drinkard in both of the wells in these applications flows with a relatively low pressure; in the case of one well approximately 150 to 200 lbs; and in the case of the other, we operate on an intermitter, and pressure ranges from 200 to 300 lbs to as high as 500 lbs. The gas formation we anticipate will have wellhead pressure on the order of 1,800 lbs to 2,000 lbs. And I think we will be able to demonstrate by recorded pressures whether communication exists.

MR. GRAHAM: Have you contacted offset operators for their ideas?

MR. STORM: We have supplied copies of the application to every offset operator to the lease.

MR. GRAHAM: Are you familiar with the usual type of order in dual completions --

MR. STORM: -- I am.

MR. GRAHAM: -- heretofore given by the Commission.

MR. STORM: And we anticipate complying with the usual requirements given in the previous orders. In our original application we provided a plat giving the geographical location of the well and a schematic diagram of the electrical log characteristics of the productive zones, and the position of casing in the well, and the approximate position we would anticipate installing the dual-completion packer.

MR. SPURRIER: Any more questions? If not, we will take up Case 345.

STATE OF NEW MEXICO

SS

COUNTY OF BERNALILLO

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

DONE at Albuquerque, N. M., March 21, 1952.

E. G. Green
Notary Public

My Commission Expires: 8-4-52

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

March 6, 1952

C
O
P
Y

Cone, Markham and Redfern
First National Bank Building
Lubbock, Texas

Gentlemen: RE: OOC Cases 344 and 345

This will confirm the fact that your two applications for dual completion of your Eubank wells No. 1 and 2 have been received and scheduled as Cases 344 and 345, respectively, for the regular March 20 hearing of the Oil Conservation Commission.

Legal advertising has been properly issued.

Very truly yours,

W. B. Macey
Chief Engineer

WBM:mr

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. 344
ORDER No. R-137

THE APPLICATION OF CONE, MARKHAM
AND REDFERN FOR AN ORDER GRANTING
PERMISSION TO DUALY COMPLETE AND
PRODUCE ITS EUBANKS NO. 1 WELL IN THE
DRINKARD POOL, LOCATED SW SW SEC. 14,
TWP. 21 SOUTH, RANGE 37 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 20, 1952, at Santa Fe, New Mexico, before the Oil Conservation Commission, herein-after referred to as the "Commission."

NOW, on this 24 day of April, 1952, 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 applicant's Eubanks No. 1 well, SW SW 14-21S-37E, NMPM, was completed in April 1949 as an oil well in the Drinkard pay, bottomed at 6617 feet, and produced from the open-hole interval 6512-6617, having drilled through the Blinebry gas zone (5540-5655).

(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, Cone, Markham and Redfern, be, and it hereby is authorized to dually complete and produce its Eubanks No. 1 well, SW SW Section 14, Township 21 South, Range 37 East, NMPM, in the Drinkard Pool, Lea County, New Mexico, in such a manner that gas from the Blinebry 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;

Case No. 344
Order No. R-137

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 assignees 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
EDWIN L. MECHEM, CHAIRMAN

Guy Shepard
GUY SHEPARD, MEMBER

R. R. Spurrick
R. R. SPURRIER, SECRETARY

SEAL

OIL CONSERVATION COMMISSION

P. O. BOX 871
SANTA FE, NEW MEXICO

April 23, 1952

C

COME, MARSHAM AND REDFERN
First National Building
Lubbock, Texas

O

Gentlemen:

We attach for your records signed copies of orders as follows:

P

Order R-137 in Case 344
Order R-138 in Case 345

These were signed by the Commission on April 11, 1952.

Y

Very truly yours,

W. B. Macey
Chief Engineer

WBH:mr

CONE, MARKHAM AND REDFERN
FIRST NATIONAL BUILDING
LUBBOCK, TEXAS

January 29, 1952

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

Attention: Mr. R. R. Spurrier

Dear Mr. Spurrier:

Enclosed please find four copies each of separate applications requesting that the Conservation Commission issue orders to permit Markham, Cone and Redfern to dually complete and produce their Eubanks Wells No. 1 and No. 2, SW/4 Section 14, Township 21 South, Range 37 East, NMPM, Lea County, New Mexico. Both of these wells are Drinkard Pool producers, and it is desired to convert them to dual gas-oil production: Well No. 1 as a dual Blinbry gas-Drinkard oil well; and, Well No. 2 as a dual Tubb gas-Drinkard oil well.

It will be appreciated if both of these applications can be placed on the docket of the next scheduled hearing of the Commission on February 21.

All offset operators to the Eubanks lease are being provided with one complete copy of each application.

Respectfully yours,

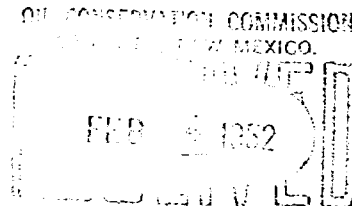
Markham, Cone and Redfern

By L. O. Storm
L. O. Storm, Agent

Attachments (8)

Copy with attachments:

Oil Conservation Commission
Hobbs, New Mexico



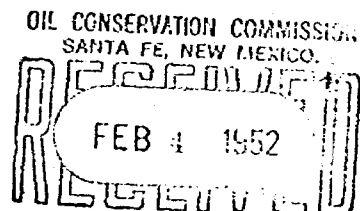
January 28, 1952

IN THE MATTER OF THE APPLICATION
OF MARKHAM-CONE AND REDFERN FOR
AN ORDER GRANTING PERMISSION TO
DUALY COMPLETE AND PRODUCE THEIR
EUBANKS NO. 1 WELL, DRINKARD POOL,
LOCATED IN SW/4 SW/4 SECTION 14,
TOWNSHIP 21 SOUTH, RANGE 37 EAST,
NMPM, LEA COUNTY, NEW MEXICO

APPLICATION

COMES NOW, Markham-Cone and Redfern, individuals, operating in the State of New Mexico from a field office in Hobbs, New Mexico, and respectfully represent to the OIL CONSERVATION COMMISSION of the State of New Mexico; that they have completed their Eubanks No. 1 well, located in the center of the SW/4 SW/4 Section 14, Township 21 South, Range 37 East, NMPM, Lea County, New Mexico; that the aforesaid well presently is producing from the Drinkard formation from the open hole interval 6512 feet to the total depth 6617 feet; and, that the well is equipped with 5 $\frac{1}{2}$ -inch casing cemented at 6512 feet and 2-inch tubing hung at 6614 feet.

Applicants further represent that a high pressure gas zone exists in the Blinbry zone of the upper Clear Fork at an approximate depth of 5600 feet in Eubanks No. 1 as evidenced by the following; (1) production of gas from the Blinbry through casing perforations over the interval 5620 to 5660 feet in Sinclair Oil and Gas Company Sarkeys "A" No. 1 in the NW/4 SE/4 Section 23, Township 21 South, Range 37 East, which well was completed April 12, 1949 for an initial potential of 7,254 MCF gas per day flowing from the aforementioned perforations; (2) production of gas from the Blinbry through casing perforations over the interval 5554 to 5612 feet in Toklan Production Company Williamson No. 2 in the NE/4 NW/4 Section 23, Township 21 South, Range 37 East, which well was completed August 19, 1950 for an initial potential of 5,050 MCF gas per day flowing from the aforementioned perforations; and, (3) a drill stem test in Markham-Cone and Redfern Eubanks No. 2 in the NW/4 SW/4 Section 14, Township 21 South, Range 37 East which yielded a gas flow at the rate of 691 MCF per day from the interval 5500 to 5700 feet.



Continued: Application of Markham-Cone and Redfern
for permission to dually complete their
Eubanks No. 1, Drinkard Pool

Applicants further represent that it is
practical and economically feasible to dually complete
their Eubanks No. 1 to produce oil from the Drinkard
formation through the tubing and gas from the Blinebry
zone through the tubing-casing annulus with proper
packer and wellhead connections.

WHEREFORE, applicants respectfully request that
permission be granted to recomplete said well so as to
produce oil from the Drinkard formation and gas from the
Blinebry zone of the upper Clear Fork.

Attached hereto are (1) a plat showing the
location of the well proposed for dual completion with
respect to other wells in the vicinity, and (2) a dia-
gram showing the electrical log characteristics of the
Blinebry and Drinkard pays and the proposed method of
dual completion. Copies of this application together
with plat and diagram have been furnished to all offset
operators.

DONE at Hobbs, New Mexico on this the 28th
day of January, 1952.

Respectfully submitted,

Markham-Cone and Redfern

By: L. O. Storm
L. O. Storm, Agent

Attachments (2)

Copies with attachments to:

New Mexico Oil Conservation Commission
Hobbs, New Mexico

C. G. Staley
Hobbs, New Mexico

The Ohio Oil Company
Hobbs, New Mexico

Argo Oil Corporation
Midland, Texas

Shell Oil Company
Hobbs, New Mexico

Gulf Oil Corporation
Hobbs, New Mexico

Sinclair Oil and Gas Co.
Midland, Texas

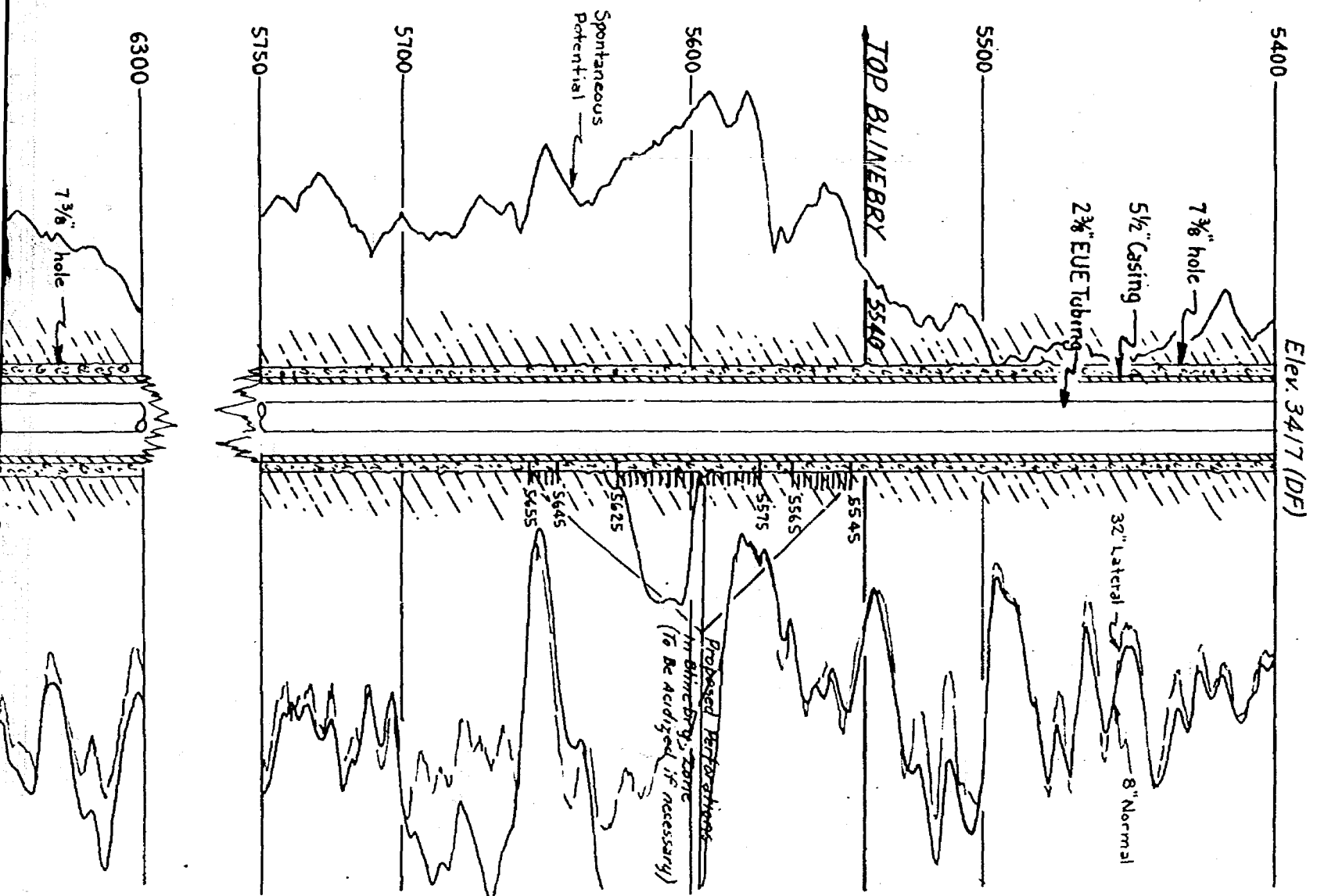
E. F. Moran, Inc.
Hobbs, New Mexico

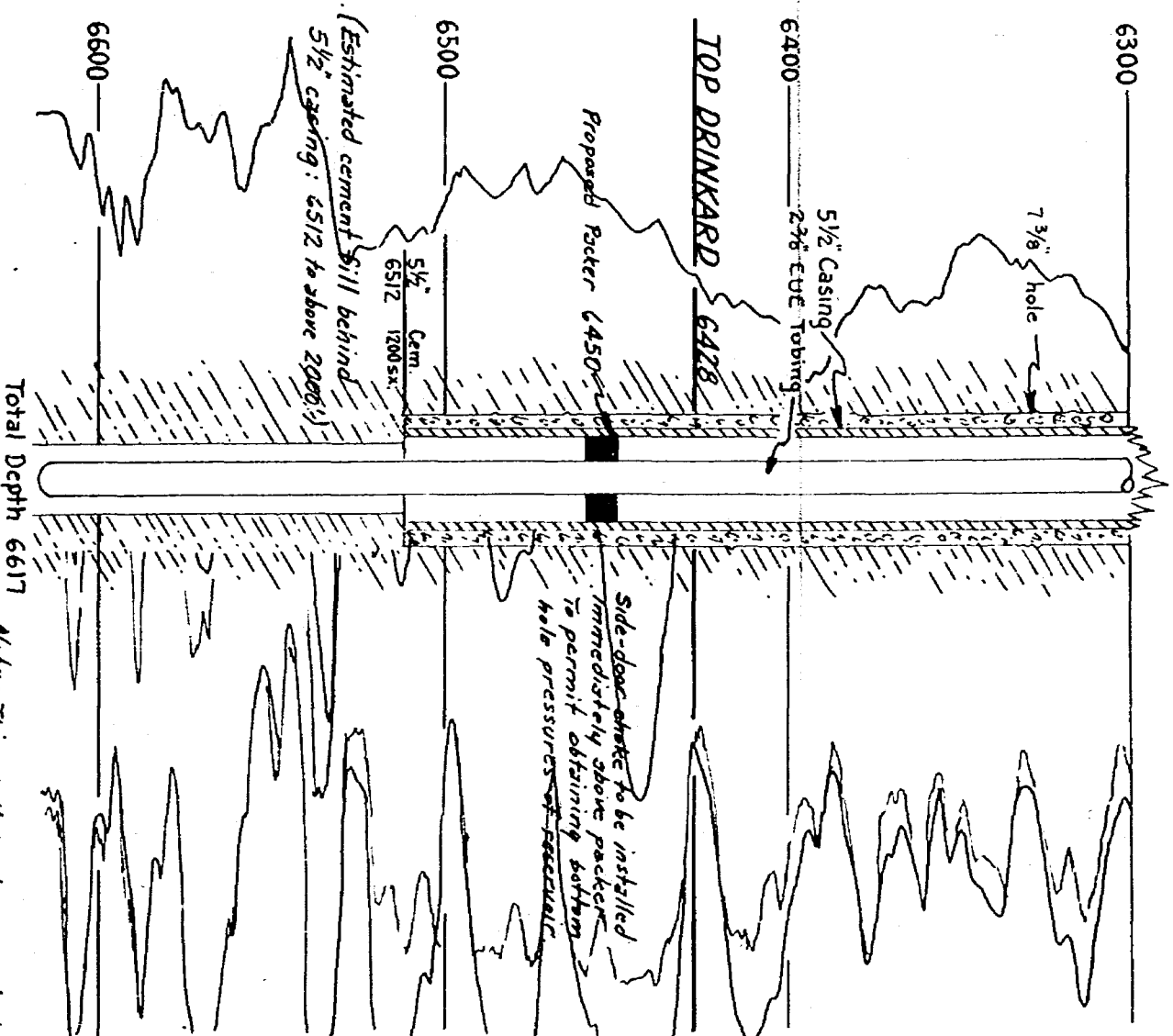
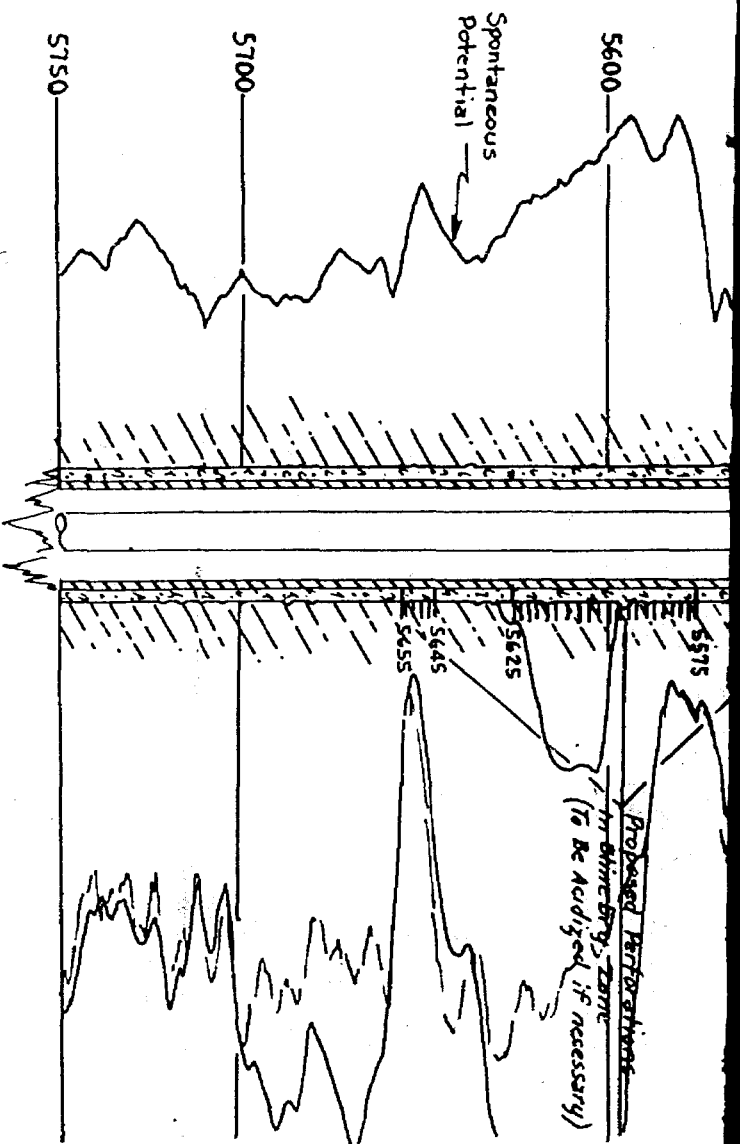
Tide Water Associated Oil Co.
Midland, Texas

Markham, Cone & Redfern
Eubanks No 1
660 FSL & 660 FWL

Sec. 14, T-21-S, R-37-E, N.M.P.M.

Plat Showing Proposed Method of Dual Completion
in Drinkard Oil & Blinberry Gas Reservoirs





Note: This well has been producing from Drinkard Oil reservoir since April 1949

