

Casa No.

454

---

Application, Transcript,  
Small Exhibits, Etc.

CASE 454: Humble Oil & Ref. Co. dual com-  
pulsion suits v. No. 8 well, NE 1/4 10-21S-  
37E (Oriskany Pool)



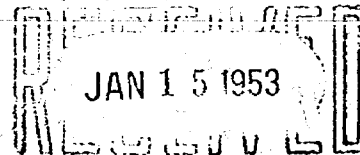
## CONTINENTAL OIL COMPANY

FAIR BUILDING  
FORT WORTH 2, TEXAS

January 7, 1953

H. L. JOHNSTON  
REGIONAL MANAGER OF PRODUCTION  
SOUTHWESTERN REGION

OIL CONSERVATION COMMISSION  
SANTA FE, NEW MEXICO.



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

Gentlemen:

Reference is made to the application of Humble Oil & Refining Company dated October 30, 1952 to dually complete Humble New Mexico State V-8 Drinkard Field, Lea County, New Mexico, which said application appears as Case No. 454 on your docket covering regular hearings set for December 16, 1952.

Continental Oil Company has been informed by Humble Oil & Refining Company that in said application the location of said well was inadvertently recited to be in the NE/4 of the SW/4 of Section 10, T-21-S, R-37-E, Lea County, New Mexico, whereas the correct location of said well is in the NE/4 of the SE/4 of Section 10, T-21-S, R-37-E, Lea County, New Mexico, as shown on Humble's Exhibit "A" attached to its said application and showing all wells on Humble New Mexico State V Lease and offset leases.

Humble Oil & Refining Company has informed Continental Oil Company that this erroneous location of said well in said application was noted at the public hearing conducted by the Oil Conservation Commission of the State of New Mexico at Santa Fe, New Mexico, on Tuesday, December 16, 1952, whereupon the Oil Conservation Commission suggested that in the event Humble Oil & Refining Company secured waivers from all offset operators it would not be necessary to publish new notices and hold a new hearing on said application.

In view of the above, you are hereby respectfully advised that Continental Oil Company does hereby waive further notice and hearing regarding the application of Humble Oil &

PIONEERING IN PETROLEUM PROGRESS SINCE 1875

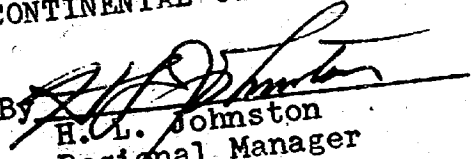
Oil Conservation Commission  
Page 2

Refining Company to dually complete Humble New Mexico State  
V-8 well located in the NE/4 of the SE/4 of Section 10, T-21-S,  
R-37-E, Lea County, New Mexico.

Yours very truly,

CONTINENTAL OIL COMPANY

By

  
H.C.L. Johnston  
Regional Manager  
of Production  
Southwestern Region

HLJ-OT  
Carbon copy to:  
Humble Oil & Refining Company  
Midland, Texas

**TIDE WATER ASSOCIATED OIL COMPANY**

MID-CONTINENT DIVISION  
MELLIE ESPERSON BLDG. POST OFFICE BOX 1404  
HOUSTON 1, TEXAS

December 29, 1952

Case 454  
WBM

JAN 2 1953

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

Gentlemen:

We are enclosing waiver which corrects error in the application of Humble Oil and Refining Company to dually complete Humble's New Mexico State V-8 well, located in the north-east quarter of the southeast quarter of Section 10, Township 21 South, Range 27 East, Lea County, New Mexico.

Very truly yours,

TIDE WATER ASSOCIATED OIL COMPANY

By: 

J. B. Holloway

JBH:etm

Encl.

Waiver

cc: Mr. J. E. Roth

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

Gentlemen:

Reference is made to Humble Oil & Refining Company's application to dually complete Humble New Mexico State V-8, Drinkard Field, Lea County, New Mexico, dated October 30, 1952.

In said application, the location of Humble New Mexico State V-8 well was inadvertently recited to be in the NE/4 of the SW/4 of Section 10, T-21-S, R-37-E, Lea County, New Mexico. The actual location of said well is in the NE/4 of the SE/4 of Section 10, T-21-S, R-37-E, Lea County, New Mexico, as is depicted upon plat showing all wells on Humble New Mexico State V lease and offset leases attached to said application as Exhibit A.

This erroneous reference to the location of said well in the application was noted at the public hearing conducted by the Oil Conservation Commission at Santa Fe, New Mexico, on Tuesday, December 16, 1952, at which time it was required that offset operators waive any objections to the dual completion of Humble New Mexico State V-8 well located in the NE/4 of the SE/4 of Section 10, T-21-S, R-37-E, Lea County, New Mexico.

Therefore, the undersigned agrees that it will not be necessary to publish a new application or conduct a further hearing regarding the application of Humble Oil & Refining Company to dually complete Humble New Mexico State V-8 well located in the NE/4 of the SE/4 of Section 10, T-21-S, R-37-E, Lea County, New Mexico, and the undersigned hereby waives any and all objections to said application and hereby expresses accord with the granting of said application by the Oil Conservation Commission.

THE UNITED ASSOCIATED OIL COMPANY

BY: 

DATE: Dec 29, 1952

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. 454  
ORDER NO. R-248

THE AMENDED APPLICATION OF HUMBLE  
OIL AND REFINING COMPANY FOR AN ORDER  
GRANTING PERMISSION TO DUALY COMPLETE  
AND PRODUCE ITS STATE "V", WELL NO. 8  
LOCATED IN THE NE/4 SE/4 SECTION 10,  
TOWNSHIP 21 SOUTH, RANGE 37 EAST, NMPM,  
LEA COUNTY, NEW MEXICO, IN THE DRINKARD  
POOL.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on December 16, 1952, at Santa Fe, New Mexico, before the Oil Conservation Commission, hereinafter referred to as the "Commission".

NOW, on this <sup>th</sup>15 day of January, 1953, the Commission, a quorum<sup>1</sup> 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 State "V", Well No. 8, NE/4 SE/4, Section 10, Township 21 South, Range 37 East, NMPM, Lea County, New Mexico, was completed in January, 1952, as an oil well producing from the Drinkard formation through casing perforations 6608'-6670', having drilled through the Blinebry gas zone, 5600'-5680'.

(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, Humble Oil and Refining Company, be, and it hereby is, authorized to dually complete and produce its State "V", Well No. 8, NE/4 SE/4, Section 10, Township 21 South, Range 37 East, NMPM, 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 the tubing and oil from the Drinkard formation through the tubing by proper perforations and the installation of a 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,

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 representative 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 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. Mechem*  
Edwin L. Mechem, Chairman

*E. S. Walker*  
E. S. Walker, Member

*R. R. Spurrier*  
R. R. Spurrier, Secretary

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

January 16, 1953

C  
O  
P  
Y

Mr. John House  
Humble Oil & Refining Company  
Midland, Texas

Dear Mr. House:

We attach signed Commission orders on dual completion cases recently heard before the Commission, as follows:

Order R-239 in Case 442  
Order R-244 in Case 450  
Order R-245 in Case 451  
Order R-246 in Case 452  
Order R-247 in Case 453  
Order R-248 in Case 454  
Order R-249 in Case 455  
Order R-250 in Case 456  
Order R-251 in Case 457

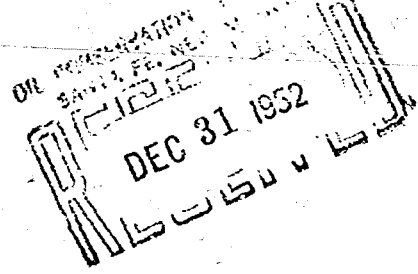
Very truly yours,

For W. B. Macey  
Chief Engineer

WBH:mr  
Encl.



Case 454



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

Gentlemen:

Reference is made to Humble Oil & Refining Company's application to dually complete Humble New Mexico State V-8, Drinkard Field, Lea County, New Mexico, dated October 30, 1952.

In said application, the location of Humble New Mexico State V-8 well was inadvertently recited to be in the NE/4 of the SW/4 of Section 10, T-21-S, R-37-E, Lea County, New Mexico. The actual location of said well is in the NE/4 of the SE/4 of Section 10, T-21-S, R-37-E, Lea County, New Mexico, as is depicted upon plat showing all wells on Humble New Mexico State V lease and offset leases attached to said application as Exhibit A.

This erroneous reference to the location of said well in the application was noted at the public hearing conducted by the Oil Conservation Commission at Santa Fe, New Mexico, on Tuesday, December 16, 1952, at which time it was required that offset operators waive any objections to the dual completion of Humble New Mexico State V-8 well located in the NE/4 of the SE/4 of Section 10, T-21-S, R-37-E, Lea County, New Mexico.

Therefore, the undersigned agrees that it will not be necessary to publish a new application or conduct a further hearing regarding the application of Humble Oil & Refining Company to dually complete Humble New Mexico State V-8 well located in the NE/4 of the SE/4 of Section 10, T-21-S, R-37-E, Lea County, New Mexico, and the undersigned hereby waives any and all objections to said application and hereby expresses accord with the granting of said application by the Oil Conservation Commission.

SOUTHERN UNION GAS COMPANY

BY: Paul Thompson

DATE: 12/29/52

Midland, Texas  
October 30, 1952

File: 6-1  
Re: Application to Dually Complete  
Humble New Mexico State V-8,  
Drinkard Field, Lea County,  
New Mexico

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

Gentlemen:

By means of this application, Humble Oil & Refining Company wishes  
to state the following: *SE 1/4*

*Production  
Connection*

- (a) Humble Oil & Refining Company New Mexico State V-8, located in the NE/4 of SW/4 of Section 10, T21S, R37E, Lea County, was completed January 30, 1952 at a total depth of 7573 feet. The 5-1/2-inch casing was set on bottom at 7573 feet.
- (b) Exhibit A, attached, is a plat of Humble New Mexico State V lease showing the location of wells on the State V lease and offset leases.
- (c) The subject well was completed as an oil well producing from the Drinkard pay through casing perforations from 6600 to 6670 feet. An unsuccessful attempt was made to complete the well through casing perforations from 7525 to 7545 feet and from 7488 to 7502 feet, after which the well was plugged back with cement to 6725 feet. Exhibit B, attached, is a schematic diagram of the current completion status of the subject well.
- (d) The applicant proposes to dually complete the well to produce oil from the Drinkard pay (current completion zone) through the tubing and gas from the Blinbry formation through the tubing-casing annulus in the following manner:
  - (1) Perforate the 5-1/2-inch OD casing from approximately 5600 to 5680 feet.
  - (2) Set a production type packer at approximately 5750 feet to separate the two pay zones.
- (e) Granting of this application for permission to produce the well as a dual completion with oil from the Drinkard formation and gas from the Blinbry formation is in the interest of conservation and protection of correlative rights.
- (f) 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.


Oil Conservation Commission  
State of New Mexico  
October 30, 1952  
Page 2

- (g) The manner and method of the proposed dual completion is mechanically feasible and practical.

Therefore, Humble Oil & Refining 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.

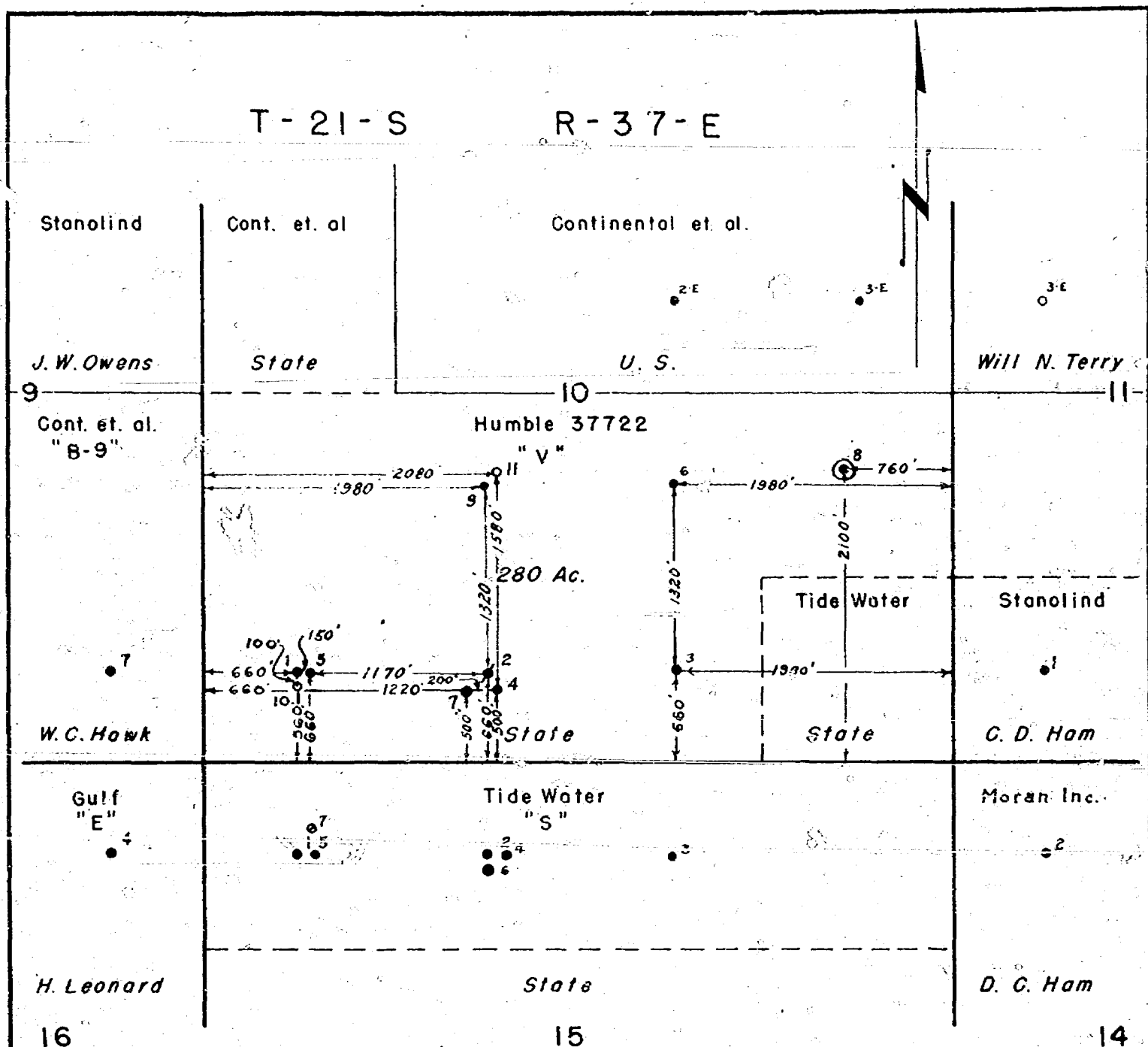
Respectfully Submitted,

HUMBLE OIL & REFINING COMPANY

  
J. W. HOUSE  
Division Superintendent

JEG/hrs

- Encl. Exhibit A - Plat showing all wells on Humble New Mexico State V lease and offset leases.  
Exhibit B - Schematic Diagram of Current Completion, Humble New Mexico State V-8.  
Exhibit C - Schematic Diagram of Proposed Dual Completion, Humble New Mexico State V-8.  
Exhibit D - Radioactive Log of Humble New Mexico State V-8.



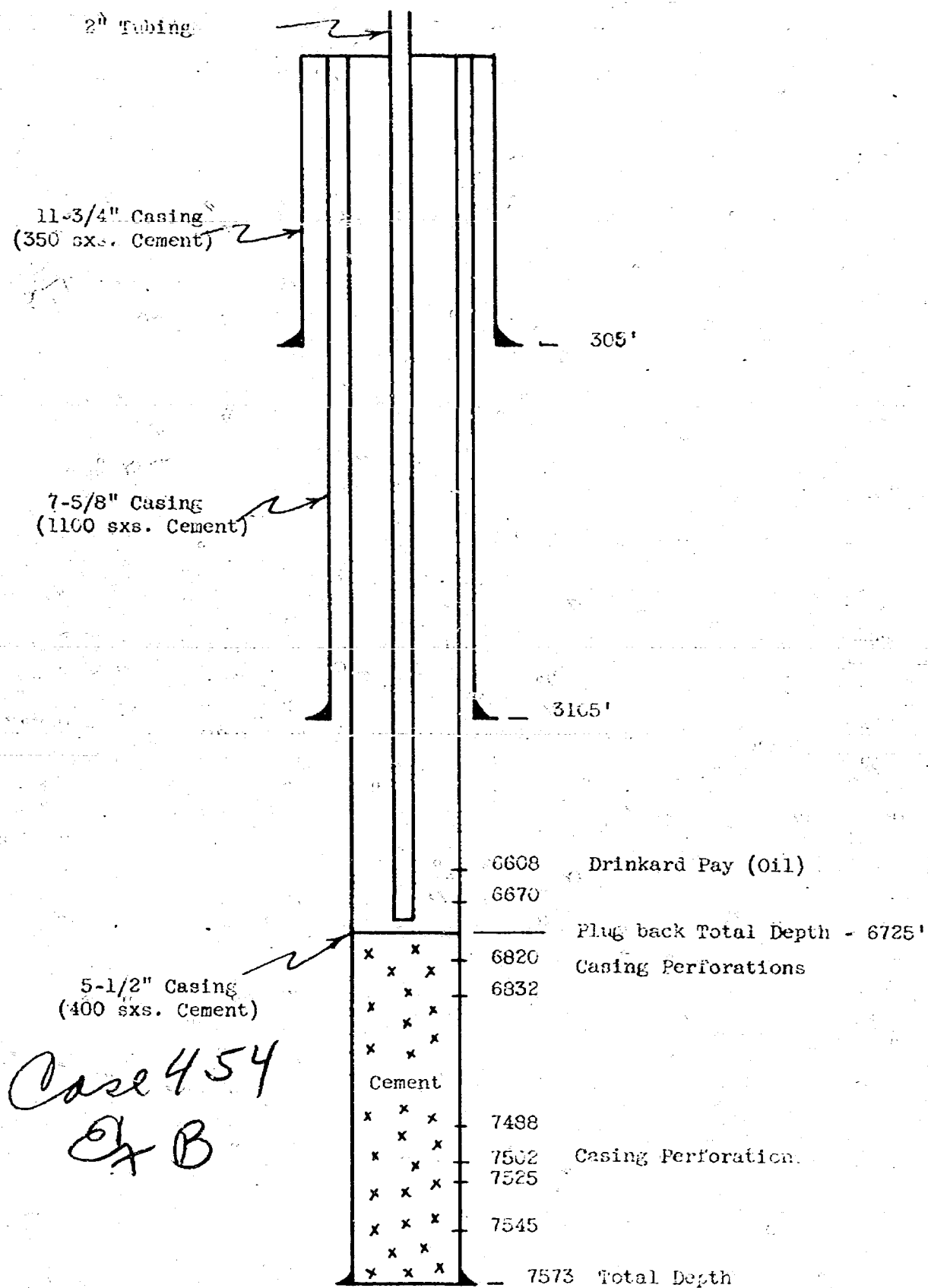
Case 454  
Ex A



NOTE: Area shown hereon is a portion of Lse. No. 37722 which covers 3,960 Ac. lying in Lea County.

NEW MEXICO STATE "V" NO. 37722		
SEC. 10 T-21-S R-37-E LEA CO. N.M.		
HUMBLE OIL & REFINING COMPANY CIVIL ENGINEERING DIVISION MIDLAND, TEXAS		
DRAWN D.L. MCKIBBIN	SCALE 1" = 1000	FILE NO.
CHECKED <i>H. Hamel</i>	DATE 9-8-48	WT-A 759
APPR.	REVISE 1-11-52 D.L.M.	

# EXHIBIT B - SCHEMATIC DIAGRAM OF CURRENT COMPLETION STATUS - HUMBLE STATE V- 8



# EXHIBIT C - SCHEMATIC DIAGRAM OF PROPOSED DUAL COMPLETION - HUMBLE STATE - V-8

