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Hobbs, New Mexico

March 19, 1954

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U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FILE: KJB-121-401

SUBJECT: Application to Dually
Complete State "C"
Tract 12 No. 4,
Drinkard Field.

New Mexico Oil
Conservation Commission (3)
Santa Fe, New Mexico

Gentlemen:

Stanolind Oil and Gas Company hereby files application to dually complete State "C" Tract 12 No. 4, located 1980' from the north line and 3300' from the east line of Section 16, T-21-S, R-37-E.

The well is presently producing from the Drinkard in the Drinkard Field through perforations from 6550' to 6580' and 6620' to 6656'. Applicant plans to perforate the Blinebry formation at various intervals from 5650' to 6010' and dually complete. A packer will be employed to segregate the Drinkard oil and Blinebry gas zones.

As required by Rule 112-A, the following are attached:

- (1) A plat showing the location of all wells on applicant's lease, and all offset wells on offset lease.
- (2) A sketch showing the manner and method of applicant's proposed dual completion.

All offset operators have been duly notified by being furnished a copy of this application.

Yours very truly,

Original Signed by
RALPH L. HENDRICKSON

Ralph L. Hendrickson
Field Superintendent

LWS:db
Attach: 2
cc/attachments

Gulf Oil Corporation
Hobbs, New Mexico

Amerada Petroleum Company
Monument, New Mexico

Continental Oil Company
Hobbs, New Mexico

New Mexico Oil Conservation Commission
Hobbs, New Mexico

1. The first part of the paper is devoted to the study of the properties of the function $f(x)$ defined by the equation

$$f(x) = \int_0^x \frac{1}{1+t^2} dt$$

It is well known that this function is the arctangent function, i.e.,

$$f(x) = \arctan x$$

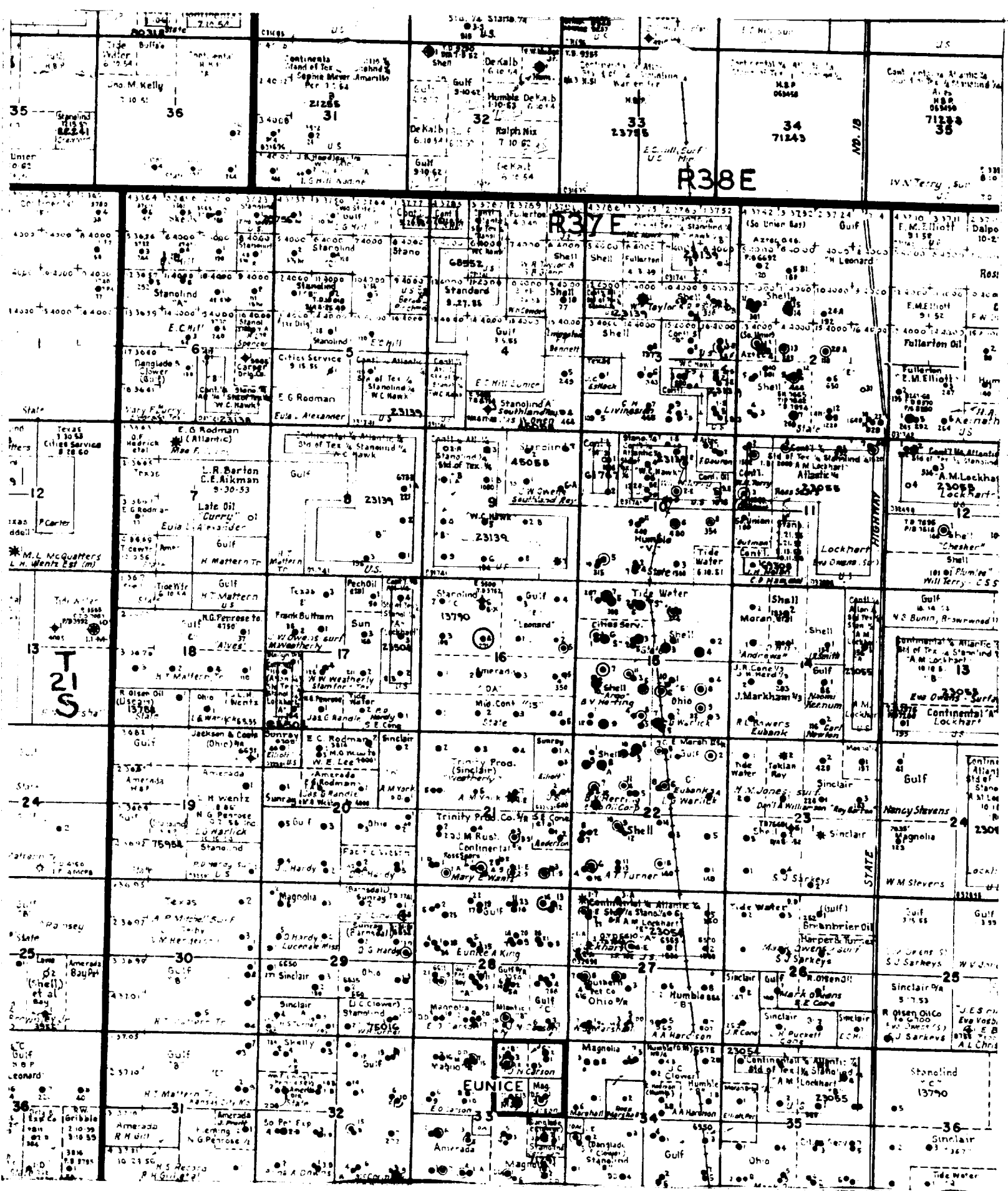
It is easy to see that the function $f(x)$ is odd, i.e.,

$$f(-x) = -f(x)$$

and that it is bounded, i.e.,

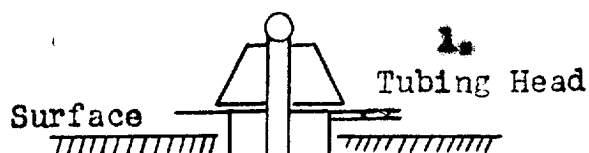
$$|f(x)| < \frac{\pi}{2}$$

for all values of x . The function $f(x)$ is also continuous and differentiable, and its derivative is



State "C" Tract 12 No 4

Drinkard - Oil
Blinebry - Gas



Lease and Well No. Drinkard
Field Drinkard

State "C" Tract 12 #4
State New Mexico

2.

3.

Tubing

Depth 5650

Upper Pro-
ducing
Zone Depth 6010

4.

Depth 6450

5.

Packer 6.

6500

7. Tailpipe

Depth 6550

Lower Pro-
ducing
zone Depth 6656

8.

Depth 6660

9.

DUAL COMPLETION EQUIPMENT

ITEM	DESCRIPTION, MAKE AND SIZE
1.	Tubing head: 10" x 6" type 6M Reeter w/manirel threaded 2-1/2" EUE END
2.	Oil String: 7", 23#, set at 6656' with 700 sacks.
3.	Tubing: 2-1/2" EUE, 6.5# set at approximately 6450' in packer.
4.	Upper perforations: Blinbry to be perforated at various intervals from 5650' to 6010' with 2 shots per foot.
5.	Circulating valve: Garrett Oil Tool Type 4.
6.	Packers: Hookwall packers set at approximately 6500' and 6450'.
7.	Tailpipe: 2" tubing from 6500' to approximately 6640'.
8.	Lower Producing Interval: Drinkard perforations from 6550' to 6580' and 6620' to 6656'.
9.	Total Depth: 6660'

STANOLIND OIL & GAS COMPANY

DUAL COMPLETION SKETCH

SCALE:

DRG.
No.