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NEW MEXICO OIL CONSERVATION COMMISSION

(Form C-104)
Revised 7/1/57

Santa Fe, New Mexico

REQUEST FOR ~~REVENUE~~ - (GAS) ALLOWABLE

New Well
~~REVENUE~~

This form shall be submitted by the operator before an initial allowable will be assigned to any completed Oil or Gas well. Form C-104 is to be submitted in QUADRUPLICATE to the same District Office to which Form C-101 was sent. The allowable will be assigned effective 7:00 A.M. on date of completion or recompletion, provided this form is filed during calendar month of completion or recompletion. The completion date shall be that date in the case of an oil well when new oil is delivered into the stock tanks. Gas must be reported on 15.025 psia at 60° Fahrenheit.

Farmington, New Mexico

August 14, 1964

(Place)

(Date)

WE ARE HEREBY REQUESTING AN ALLOWABLE FOR A WELL KNOWN AS:

PAN AMERICAN PETROLEUM CORP., L. C. Kelly, Well No. 4, in SW $\frac{1}{4}$ SW $\frac{1}{4}$,

(Company or Operator)

(Lease)

M

3

T-30-N

R-12-W

NMPM

Basin Dakota

Pool

Unit Letter

San Juan

County. Date Spudded 7-1-64

Date Drilling Completed 7-27-64

Please indicate location:

Elevation 5874 (RDB)

Total Depth 6800

PBTD

6764

Top XII/Gas Pay 6634

Name of Prod. Form.

Dakota

PRODUCING INTERVAL - 6724-34 with 4 shots per foot
6686-98 with 4 shots per foot

Perforations 6636-46 with 4 shots per foot

Open Hole None

Depth

Casing Shoe

Depth

6659

OIL WELL TEST -

Natural Prod. Test: _____ bbls. oil, _____ bbls. water in _____ hrs, _____ min. Size _____

Test After Acid or Fracture Treatment (after recovery of volume of oil equal to volume of load oil used): _____ bbls. oil, _____ bbls. water in _____ hrs, _____ min. Size _____

GAS WELL TEST -

Natural Prod. Test: _____ MCF/Day; Hours flowed _____ Choke Size _____

Method of Testing (pitot, back pressure, etc.): _____

Test After Acid or Fracture Treatment: 1800 MCF/Day; Hours flowed 3

Choke Size 3/4" Method of Testing: Pitot Tube

Acid or Fracture Treatment (Give amounts of materials used, such as acid, water, oil, and sand): 67,570 gallons water and 56,000 pounds sand.

Casing Press. 600 Tubing Press. 125 Date first new oil run to tanks Shut-In

Oil Transporter Plateau, Inc.

Gas Transporter El Paso Natural Gas Company

Remarks: Well completed 7-27-64 as Basin Dakota Field Development Well. Copies of Deviation Survey are attached.

I hereby certify that the information given above is true and complete to the best of my knowledge.
Approved AUG 20 1964, 19_____
PAN AMERICAN PETROLEUM CORPORATION
Original Signed G. L. HAMILTON DIST. 3

OIL CONSERVATION COMMISSION

By: Original Signed Emery C. Arnold

Title Supervisor Dist. # 3

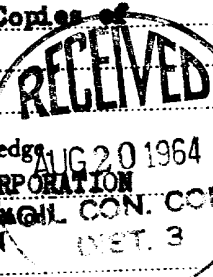
By: _____ (Signature)

Title District Services Supervisor

Send Communications regarding well to:

Name L. O. Speer, Jr.

Address P. O. Box 480, Farmington, New Mexico



TABULATION OF DEVIATION TESTS
PAN AMERICAN PETROLEUM CORPORATION

L. C. KELLY NO. 4

<u>DEPTH</u>	<u>DEVIATION</u>
630'	1/2°
1037'	1/2°
1477'	1/2°
1855'	1/2°
2150'	3/4°
2640'	3/4°
3143'	3/4°
3573'	1/2°
3767'	1/4°
4412'	1/2°
4700'	1/2°
4990'	1/2°
5233'	3/4°
5490'	1
5829'	1 °
6025'	1 °
6310'	1 °

A F F I D A V I T

THIS IS TO CERTIFY that to the best of my knowledge the above tabulation details the deviation test taken on PAN AMERICAN PETROLEUM CORPORATION'S **L. C. Kelly No. 4, Basin Dakota Field, located in the SW/4 SW/4 of Section 3, T-30-N, R-12-W, San Juan County, New Mexico.**

Signed F. H. Hollingsworth
Petroleum Engineer

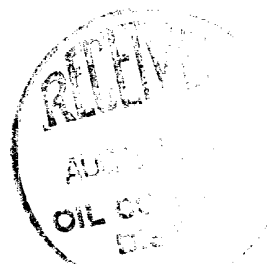
THE STATE OF NEW MEXICO) }
COUNTY OF SAN JUAN) SS.

BEFORE ME, the undersigned authority, on this day personally appeared F. H. Hollingsworth known to me to be Petroleum Engineer for Pan American Petroleum Corporation and to be the person whose name is subscribed to the above statement, who, being by me duly sworn on oath, states that he has knowledge of the facts stated herein and that said statement is true and correct.

SUBSCRIBED AND SWORN TO before me, a Notary Public in and for said County and State this 14th day of August, 1964.

S. K. Dietz
Notary Public

My Commission Expires February 27, 1965.



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 shown that the function $f(x)$ is increasing and concave down on the interval $(-\infty, \infty)$. Moreover, it is proved that the function $f(x)$ has a horizontal asymptote at $y = \frac{\pi}{2}$ as $x \rightarrow \pm\infty$.

2. In the second part of the paper, we consider the function $g(x)$ defined by the equation

$$g(x) = \int_0^x \frac{1}{1+t^4} dt$$

It is shown that the function $g(x)$ is increasing and concave down on the interval $(-\infty, \infty)$. Moreover, it is proved that the function $g(x)$ has a horizontal asymptote at $y = \frac{\pi}{4}$ as $x \rightarrow \pm\infty$.

3. Finally, in the third part of the paper, we consider the function $h(x)$ defined by the equation