

Federal Building
701 Camino del Rio
Durango, Colorado 81301

February 2, 1979

Robert C. Anderson
The Summit Building, Suite 310
5929 North May Avenue
Oklahoma City, Oklahoma 73112

Gentlemen:

Reference is made to Ute Mountain Tribal lease MOO-C-1420-1932. Sundry Notice dated January 16, 1979 states you will not drill Well No. 1 Willson-Ute, located in the SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 12, T. 31 N., R. 16 W. NMPM, San Juan County, New Mexico. Application for Permit to Drill had not been approved. 4

Drilling has not been approved and access road and well pad were not constructed.

Application for Permit to Drill is cancelled this date and is returned herewith unapproved. If at some later date you decide to drill this well, it will be necessary to file a new application.

Sincerely yours,

(Orig. Sgd.) C. A. DARRICK
Carl A. Barrick
Acting District Engineer

cc: A. B. Geren, Jr.
P. O. Box 1469
Farmington NM 87401
BIA Towaac
→ NMOCC Aztec

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

$$f(x) = \int_0^x \frac{1}{1+t^2} dt$$
 and to the investigation of its behavior as $x \rightarrow \infty$. It is shown that the function $f(x)$ is increasing and concave down, and that it approaches a horizontal asymptote as $x \rightarrow \infty$. The value of this asymptote is found to be $\frac{\pi}{2}$.

In the second part of the paper, the function $f(x)$ is used to define a new function $g(x)$ by the equation

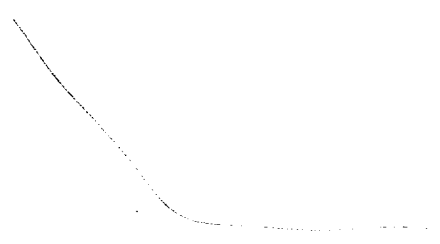
$$g(x) = \int_0^x f(t) dt$$
 and the properties of $g(x)$ are studied. It is shown that $g(x)$ is also increasing and concave down, and that it approaches a horizontal asymptote as $x \rightarrow \infty$. The value of this asymptote is found to be $\frac{\pi^2}{4}$.

Finally, in the third part of the paper, the function $g(x)$ is used to define a new function $h(x)$ by the equation

$$h(x) = \int_0^x g(t) dt$$
 and the properties of $h(x)$ are studied. It is shown that $h(x)$ is also increasing and concave down, and that it approaches a horizontal asymptote as $x \rightarrow \infty$. The value of this asymptote is found to be $\frac{\pi^3}{8}$.

The author wishes to express his appreciation to the National Science Foundation for the support of this research.

Received by the Editor
 June 15, 1964
 Revised manuscript received
 July 10, 1964



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.
See lease data
listed below:
6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Ute Mtn. Ute

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT" for such proposals.)

1. ☐ OIL WELL ☐ GAS WELL ☐ OTHER "Request for cancellation of the following Approved Drilling Permits"

2. NAME OF OPERATOR

Robert C. Anderson

3. ADDRESS OF OPERATOR

The Summit Bldg. - Suite 310

5929 N. May Ave., Oklahoma City, Oklahoma 73112

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)

At surface

"Proposed and approved drilling locations requested for cancellation are listed below":

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

12. COUNTY OR PARISH

13. STATE

San Juan

New Mexico

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

X

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Present plans are that the following locations shall not be drilled at this time. No surface disturbance related to these previously approved drilling applications has occurred at the proposed drill-sites.

It is therefore requested that the Application for Permit to Drill be cancelled for the below listed locations:

1). Robert C. Anderson No.1 Ute Tribe SW SW 13-T31N-R16W San Juan Co, N.M.
Lease No. UMT MOO-C-1420-1933 Drilling Permit dated 12-29-77.

2). Robert C. Anderson No.3 Ute Tribe NW NW 13-T31N-R16W San Juan Co, N.M.
Lease No. UMT MOO-C-1420-1933 Drilling ~~Permit~~ filed 9-5-78.
(Application)

3). Robert C. Anderson No.1 Ute-Kelly SE SE 11-T31N-R16W San Juan Co, N.M.
Lease No. UMT MOO-C-1420-1931 Drilling Application filed 9-5-78.

→ 4). Robert C. Anderson No.1 Willson-Ute SW SW 12-T31N-R16W San Juan Co., NM
Lease No. UMT MOO-C-1420-1932 Drilling Application filed 9-5-78.

5). Robert C. Anderson No.1 Anderson-Chace NW NW 23-T31N-R16W San Juan, NM
Lease No. UMT MOO-C-1420-1935 Drilling Application approved: 9-19-78

18. I hereby certify that the foregoing is true and correct

Agent for:

SIGNED Ashton B. Geren, Jr.

TITLE Robert C. Anderson

DATE Jan. 16, 1979

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY: