

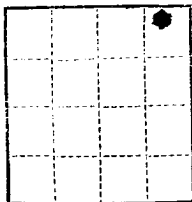
(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Las Cruces

Lease No. 30-005-00197

Unit 30-005-00197



SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	<input checked="" type="checkbox"/>	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

March 12, 19 56

Cassidy

Well No. 1 is located 660 ft. from N line and 660 ft. from E line of sec. 26

NE 1/4 of Sec. 26
(1/4 Sec. and Sec. No.)

143
(Twp.)

27E
(Range)

N.M.P.M.
(Meridian)

Wildcat
(Field)

Chaves
(County or Subdivision)

New Mexico
(State or Territory)

The elevation of the derrick floor above sea level is _____ ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Propose to drill to approximately 1900' to test the San Andres.
Propose to drill from surface to TD with cable tools.
Our Ft. Worth office will furnish you with Form 9-1123 "Designation of Operator" for this lease.
No cable tool well has been drilled within a radius of three miles of this location consequently sufficient geological data is not available at this time to propose surface casing program at this time. We will check with U.S.G.S. before setting surface casing.
Propose to set and mud any necessary strings of casing to shut off water in cable tool hole.
We propose to set approximately 1900' of 7" casing cemented with 100 sacks and MOC 48 hours if commercial production is found in the San Andres.
Understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Merville G. Penrose Inc.

Address Box 988

Elunice, New Mexico

By J.H. Bright J.H. Bright

Title Production Supt.

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, the function $f(x)$ is bounded on the interval $(-\infty, \infty)$ and its range is the interval $(-\frac{\pi}{2}, \frac{\pi}{2})$.

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

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

It is shown that the function $g(x)$ is an odd function and is increasing on the interval $(-\infty, \infty)$. Moreover, the function $g(x)$ is bounded on the interval $(-\infty, \infty)$ and its range is the interval $(-\frac{\pi}{2}, \frac{\pi}{2})$.

3. In the third part of the paper, we study the properties of the function $h(x)$ defined by the equation

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

It is shown that the function $h(x)$ is an even function and is increasing on the interval $(-\infty, \infty)$. Moreover, the function $h(x)$ is bounded on the interval $(-\infty, \infty)$ and its range is the interval $(-\frac{\pi}{2}, \frac{\pi}{2})$.