

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office **Las Cruces**
Lease No. **030180-A**
Unit **C. M. Farnsworth "A"**

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	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 REDRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....	SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....	SUPPLEMENTARY WELL HISTORY.....	X
NOTICE OF INTENTION TO ABANDON WELL.....		

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

Hobbs, New Mexico Feb 27, 19 50

Well No. **3** is located **680** ft. from **[N]** line and **660** ft. from **[E]** line of sec. **18**
T-26-S R-37-E NMPN
 (1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Haves Lea New Mexico
 (Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is **2957** 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)

Subsequent to receiving approval on July 7, 1949, for repairing the subject well, the following operations have been performed to date.

Ran Lane Wells Log. Plugged back 3114 to 3051 with 50 sx cement, and capped the cement plug with 11' of plastic to 3040'. Perforated 2996-2980 foot interval with four shots per foot. On subsequent tests by gas lift the well produced approximately 300 bbl of fluid per day of which 1% was oil and 99% water.

The following additional remedial work is proposed in order to recomplete the well as a commercial producer. Set drillable retainer at 2955' for squeezing perforated interval 2980-2996 with cement. Following plug back the 2925-2945 foot interval will be perforated with 4 shaped charges per foot for testing.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company **Stanolind Oil and Gas Company**
 Address **Box F, Hobbs, New Mexico**

Approved March 1, 1950

M. H. Soyster
District Engineer

By

Title **Field Superintendent**

The first part of the paper is devoted to a general discussion of the problem of the existence of solutions of the system of equations (1) and (2) for arbitrary values of the parameters α and β . It is shown that the system has solutions for all values of the parameters α and β if the function $f(x)$ is continuous and the function $g(x)$ is continuous and has a continuous derivative. The second part of the paper is devoted to a detailed study of the properties of the solutions of the system of equations (1) and (2) for arbitrary values of the parameters α and β . It is shown that the solutions of the system of equations (1) and (2) are unique and depend continuously on the parameters α and β . The third part of the paper is devoted to a study of the asymptotic properties of the solutions of the system of equations (1) and (2) for arbitrary values of the parameters α and β . It is shown that the solutions of the system of equations (1) and (2) have the asymptotic properties of the solutions of the system of equations (1) and (2) for arbitrary values of the parameters α and β .