

Form 19-431a  
(March 1942)

(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Land Office San Carlos  
Lease No. 19378 (A)  
Unit 117U

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 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.....	
NOTICE OF INTENTION TO ABANDON WELL.....			

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

SEM Warren A-20 No. 1-S Hobbs, New Mexico September 18, 1940

Well No. 1-S is located 1980 ft. from N line and 660 ft. from E line of sec. 30

NE 1/4 Sec. 30 20 South 30 East 104th (Meridian)

Warren-Deke Loa New Mexico  
(Field) (County or Subdivision) (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)

It is our intention to drill a well with rotary tools at the above location to a total depth of approximately 9300'. All casing points will be cemented in accordance with approved methods of the U.S. Geological Survey and any other special requirements will be complied with.

It is planned to use the following casing pattern: 10 3/4" casing to be set at approximately 250' and cemented with 250 sacks; cement to be circulated. 7 5/8" casing to be set at approximately 2355' and cemented with approximately 300 sacks or sufficient cement to protect the salt section as determined by temperature survey. 5 1/2" casing to be set at approximately 9300' and cemented with approximately 400 sacks as determined by temperature survey. 5 1/2" casing to be perforated opposite pay zone.

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

Company Continental Oil Company

Address Box 66

Hobbs, New Mexico

By \_\_\_\_\_

Title District Superintendent

**Figure 6**

1. 3/24/61

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[illegible]

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where  $\mathbf{S}_1$  and  $\mathbf{S}_2$  are the sample covariance matrices of  $\mathbf{X}_1$  and  $\mathbf{X}_2$ , respectively, and  $\mathbf{S}_1^{-1}$  and  $\mathbf{S}_2^{-1}$  are their inverse matrices. The test statistic  $T$  is defined as