



Sec. 20

(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Land Office Santa Fe

Lease No. NM 014022

Unit \_\_\_\_\_

RECEIVED

SEP 1957

U. S. GEOLOGICAL SURVEY  
WASHINGTON, D. C. 20508

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 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	X
NOTICE OF INTENTION TO ABANDON WELL		

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

September 3, 1957

Well No. 1 is located 790 ft. from N line and 790 ft. from E line of sec. 20  
NE 1/4, NE 1/4, Sec. 20 T-24-N R-7-W N. M. Principal  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
Wilcat Rio Arriba County New Mexico  
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 7343 ft.

DETAILS OF WORK

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

One DST on the Mancos shale and one DST on the Skelly Sand were conducted during August on the Federal 3-20 #1. Results of these tests are on the back of this sheet. The Gallup zone was cored (6106' to 6217'). Analysis of core will be submitted on well log at completion of well. The well was drilled to a TD of 6285' and ES Induction and Micrologs were run from TD to surface. An oil string of 7" casing was cemented at 6278' W/155 SX cement. A CR-N log was run and the casing was perforated 6128' to 6143' W/2 jets per ft. The zone was then acid washed with 500 gals. MA. and fractured with 30,000 gals. crude and 30,000 lbs. of sand. After bleeding of pressure, a Retrievable bridge plug was set at 6125' and the casing perforated 6113' to 6121' with

(over)

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

Company Standard Oil Co. of Texas

Address P. O. Box 1249

Houston 1, Texas

By Ray M. Dickson

Title General Engineer

4 jets per ft. The zone was acid washed w/250 gals. MA. on the last day of the month. Pump trucks were being moved in to fracture treat the upper zone W/15,000 gals.

DST RESULTS:

DST ##3: Interval Tested- 5638' to 5717' (Mancos Shale)  
Tool open 90 min. NOTS, NGTS, Weak blow for 5 min. and died. By-passed tool after 30 min. No blow. Recovered 30 ft. of slightly oil and gas cut drilling mud.

Pressures: 48 min. ISIBHP - 170 (Maximum)  
45 min. FSIBHP - 170 (Maximum)  
IFP - 170 IHH - 3040  
FFP - 170 FHH - 3005

DST ##4: Interval tested- 5980' to 6096' (Skelly Sand)  
Tool open 3 hrs. NOTS, NGTS, Fair blow immed. decreasing throughout test. Died in 2 hrs. 30 min. Recovered 100 ft. of VSGC drilling mud W/trace of 37 gravity API oil.

Pressures: No initial SIBHP  
IHH - 3135 IFP - 140  
FHH - 3000 FFP - 140  
45 min. FSIBHP - 180 PSI (Not Maximum)