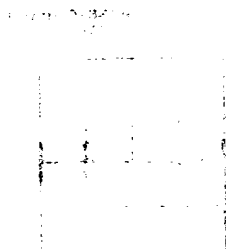


It is of the greatest importance to have a complete history of the well. Please state in detail the dates of refilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "sidetracked," or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

FORMATION RECORD--Continued



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

San Antonio, Tex
WELL NO. 208235A
Morgan

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL

NOTICE OF INTENTION TO CHANGE PLANS

NOTICE OF INTENTION TO TEST WATER OR OIL

NOTICE OF INTENTION TO REDEVELOP OR REPAIR WELL

NOTICE OF INTENTION TO THICKEN OR ACIDIZE

NOTICE OF INTENTION TO FILL OR ALTER CASING

NOTICE OF INTENTION TO ABANDON WELL

SUBSEQUENT REPORT OF WATER AND OIL

SUBSEQUENT REPORT OF STOPPING OR STOPPING

SUBSEQUENT REPORT OF ALTERING PLANS

SUBSEQUENT REPORT OF REPAIRING OR REPAIRING

SUBSEQUENT REPORT OF THICKENING

SUPPLEMENTARY WELL HISTORY

A

INDICATE ABOVE BY CHECKING APPROPRIATE BOXES IN THIS OR OTHER PAGE

October 21

1937

Government Morgan

Well No. 1 is located 500 ft from ^{NE} line and 500 ft from ^E line sec 31

SE 1/4 Sec. 31

27N

12E

NRPM

undesignated

San Juan

New Mexico

The elevation of the derrick floor above sea level is
5643' KB
5632.71' GL

DETAILS OF WORK

State names of all expected depths to objective sands; show sizes, weights, and lengths of proposed casing; indicate mudline; show casing points; and all other important proposed work.

An 8-3/4" hole was drilled from 206' to 5045' KB. No cores or drill stem tests were taken. 5 1/2" J-55, 15.5# casing was cemented at 5044' with 100 sac of cement 50% Pozmix "B" plus 4% Gel and 1/8# per sac Floccle added. A temperature survey indicated top of cement at 4500'. A Volex Gamma Ray Neutron Log was run and the casing perforated from 4896' to 4930' and from 4935' to 4969' KB with 4 Dyna Jets per foot. The perforated interval was treated with a sand-oil frac as follows: Broke formation at 1800 PSI. Pumped in 70,000 gals crude mixed with 100,000 lbs of 20-40 mesh sand. Used 300 balls in 7 stages. Flushed with 53 bbls. Maximum pressure 2800 PSI. Minimum pressure 2200 PSI. Injection rate 55.8 bbls/min. Back flowed lead oil for 5 days.

Continued on attached page

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

Company The Frontier Refining Company

Address 4040 East Louisiana Avenue

Denver 22, Colorado

John E. Barton, Vice President

Supplementary Well History - Details of Work
Government Morgan #1
October 16, 1957

Page 3

Recovered all but 638 bbls. Ran 158 jts of 2-3/8" EUE, 8 round, upset, J-85 tbg, landed at 4995.5'GL. Flowing well on 22/64" choke into tanks with 155 bbls load oil to recover as of 11:38 A.M. September 28, 1957.