

107 X 46

**RYDER SCOTT COMPANY**  
**PETROLEUM ENGINEERS**

MIDLAND, TEXAS  
December 2, 1961

Mr. Frank Irby  
Chief Water Rights Division  
State Engineer Office  
P.O. Box 1079  
Santa Fe, New Mexico

Dear Mr. Irby:

Re: Stanton Oil Co., Ltd.  
Waterflood Expansion  
Turkey Track (Queen) Field  
Eddy County, New Mexico

As per our telephone conversation, I am enclosing a copy of our letter of November 14, to Mr. A.L. Porter, Jr. Also enclosed is a chemical analysis of our injection water. This water is from a depth of 230 feet and is being handled in a good closed system.

The enclosed sketch shows our proposed casing program for the two injection wells. The surface pipe will be 8 5/8 inch, J55, Range 2(used). This pipe will be set approximately 15 feet or more into the salt which is found at about 350 feet; cement will be returned to surface. The 4 1/2 inch string will be J55, Range 2 (new) and will be set through the Queen sand at about 2150 feet; a sufficient volume of cement will be used to achieve a fillup of 500 feet outside the production string. We propose to inject water down the casing.

Based on past experience, the initial injection pressures at these two new wells will be about 900 psig. Wellhead pressures at the four present injection wells vary from 1350 psig to 1590 psig.

Yours very truly,

**RYDER SCOTT COMPANY**  
**PETROLEUM ENGINEERS**

Original Signed by Wm. E. Fickert  
William E. Fickert

WEF/II

Encl.

cc: Mr. A. L. Porter, Jr. -

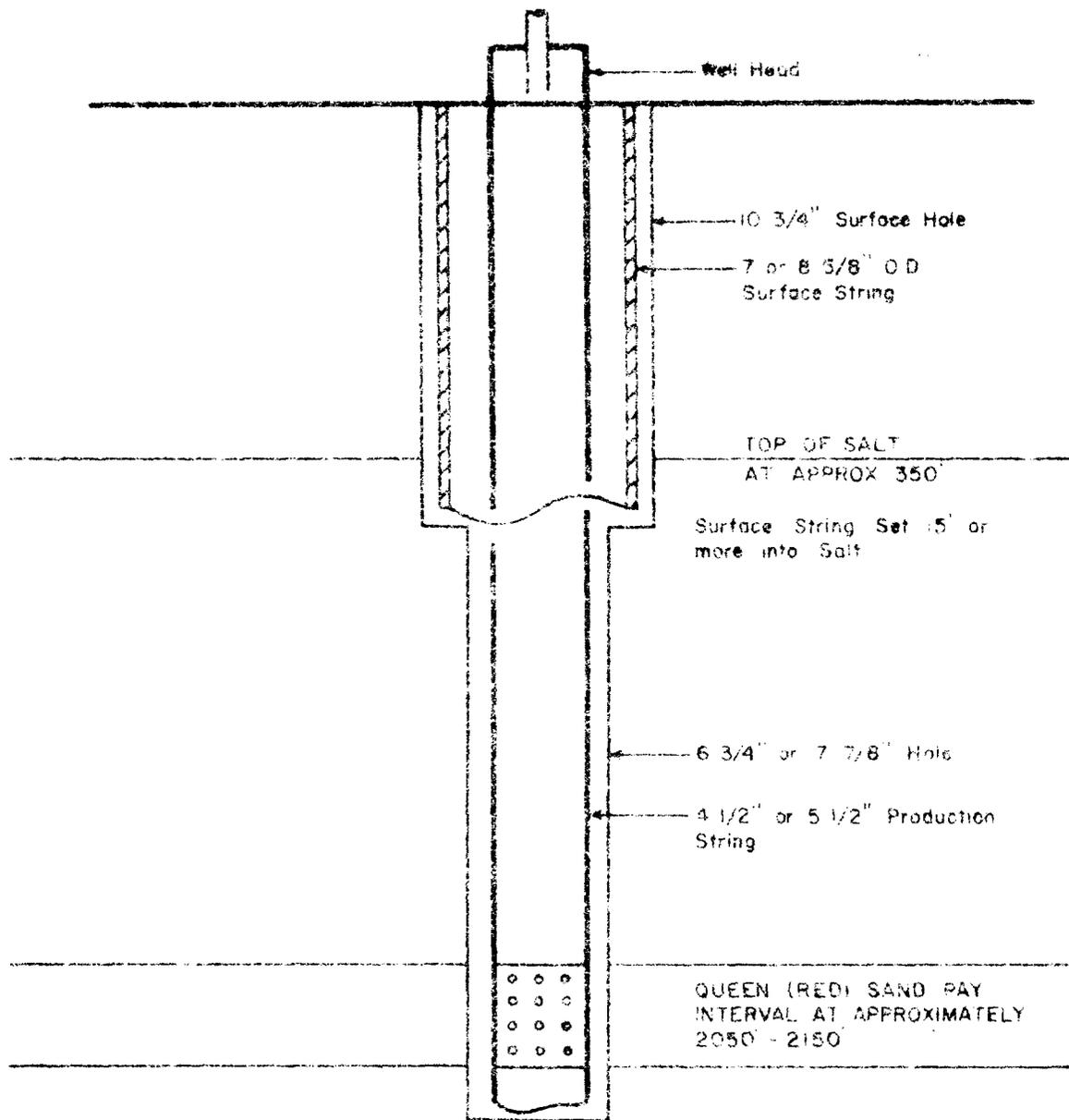
STANTON OIL COMPANY, LTD.  
TURKEY TRACK POOL - QUEEN SAND LEASES  
EDDY COUNTY, NEW MEXICO  
INJECTION WATER ANALYSIS

Water Supply Well # 1

Chemical and Physical Properties

Specific Gravity at 60° F.	1.0093
PH When Received	7.2
Total Alkalinity as CaCO <sub>3</sub>	80
Total Hardness As CaCO <sub>3</sub>	3,467
Calcium As CaCO <sub>3</sub>	2,005
Magnesium As CaCO <sub>3</sub>	1,462
Sodium and/or Potassium	2,907
Sulfate As SO <sub>4</sub>	3,418
Chloride As Cl	4,363
Silica As SiO <sub>2</sub>	7.5
Iron As Fe	12.6
Barium As Ba	none
Turbidity Electric	142
Color As Pt	2.3
Dissolved Solids At 103° C.	11,204
Total Solids At 103° C.	11,346
Carbon Dioxide Calculated	10.4
Hydrogen Sulphide	none
Resistivity OHMS/cc	82
Chlorides, As NaCl	7,187
Boron	2.2

Note: All Results Reported as Parts Per Million.



Total Depth Approximately 2200'

STANTON OIL COMPANY LTD.  
 TURKEY TRACK FIELD-QUEEN SAND LEASES  
 EDDY COUNTY, NEW MEXICO  
 INJECTION WELL COMPLETION  
 DIAGRAM

RYDER SCOTT COMPANY  
 408 Wilkinson-Foster Bldg., Midland, Texas