

WFX-1665

RYDER SCOTT COMPANY
PETROLEUM ENGINEERS
MIDLAND, TEXAS

January 17, 1964

Mr. A. L. Porter, Jr.
Secretary-Director
Oil Conservation Commission
State of New Mexico
P. O. Box 871
Santa Fe, New Mexico

Dear Sir:

Brainard 7W
Brainard 8W

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

Water injection for this project began into four wells in late March, 1960 after your Order No. R-1524 entered November 12, 1959, and was expanded to six injection wells in January, 1962 by your Administrative Order WFX No. 96. At this date all wells in and surrounding the injection area have indicated some response to the injection program. Comparative oil producing rates of the 10 wells involved are as follows:

Well Name and No.	Daily Oil Production	
	Before Injection	Since Injection
	March, 1960 Bbl. Oil Per Day	December, 1963 Bbl. Oil Per Day
Brainard #1	2.1	4.7
Brainard #2	6.4	7.2
Brainard #4	5.6	30.0
Brainard #5	2.5	4.4
Brainard #6	5.7	12.4
Featherstone #1	5.5	4.9
Featherstone #2	5.5	2.0
Wilson #1	5.0	10.4
Wilson #2	7.6	18.2
Wilson #5	5.1	3.9
Totals	51.0	98.1

Mr. A. L. Porter, Jr.
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The highest per well producing rates thus far for this project have been 40 BOPD at the Wilson No. 2 and 30 BOPD at the Brainard No. 4. Most of the wells however produce at much lower rates. The low producing rates prolong the high operating costs to recover the waterflood oil reserves. The economics are further hampered by the necessity of drilling new injection wells. The most feasible way we can see for continuing this project would be to develop the project fully in a short period of time. Our experience thus far indicates that the allowable under Rule 701 will be more than sufficient for this project.

We are requesting administrative approval to develop the project area at our discretion as shown on the map attached. We will of course notify your office when we intend to begin injection into any well.

Also we are enclosing a diagram of our proposed injection well casing program for your consideration and approval. A copy of the most recent analysis of our injection water is also enclosed.

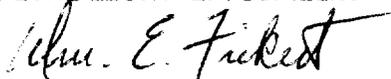
No other operators are involved in Queen production in this area of expansion.

Since we are not converting wells we have not enclosed Form C-116.

We respectfully request that our proposal for this expansion receive administrative approval.

Yours very truly,

RYDER SCOTT COMPANY
PETROLEUM ENGINEERS


William E. Fickert

WEF:ab

cc: w/attachments (3)

Mr. Frank Irby - Chief of Water Rights Division

Mr. R. C. Davoust

Mr. J. F. Buckwalter

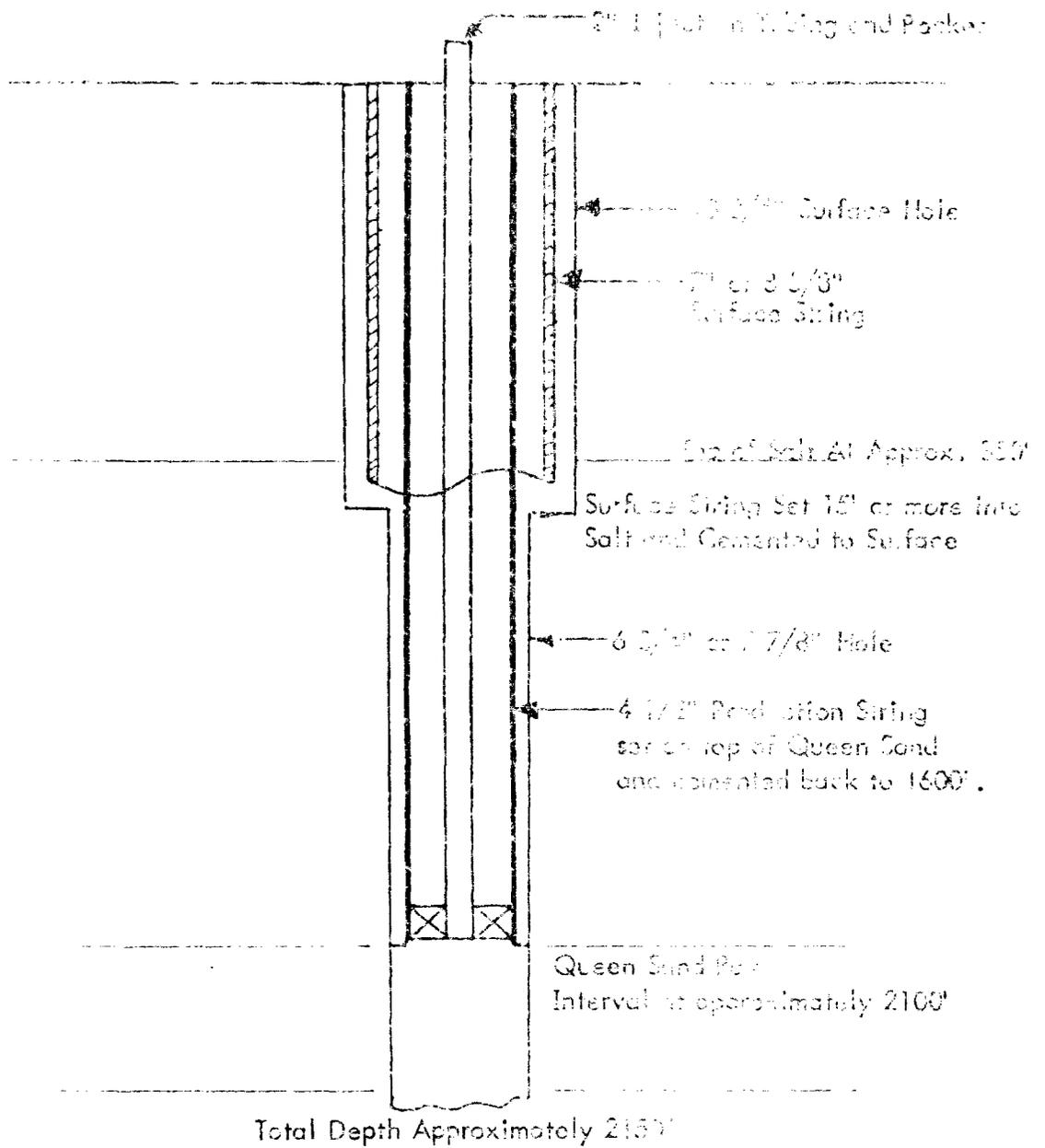


DIAGRAM OF PROPOSED WELL CASINGS
for
STANTON OIL COMPANY, LTD.
WATER INJECTION WELLS

Turkey Track Field
Eddy County, New Mexico

Prepared By: RYDER SCOTT COMPANY

Serv-A-Wel Corporation

"WORLD WIDE CHEMICALS"

WATER SOLVENTS
 INDUSTRIAL CHEMICALS
 FERTILIZERS AND PESTICIDES
 SPECIALTY CHEMICALS

2621 DULLEN ST.
 EDISON 6-1171

P. O. Box 9055

Fort Worth, Texas

May 25, 1951

ILLEGIBLE

Mr. J. A. Aickert, Engineer
 Shell Oil Company
 431 Harrison-Roster Building
 El Paso, Texas

NAME OF CLIENT: Mr. Aickert
 NAME OF PRODUCT: Injection Water
 LOCATION: El Paso, New Mexico

Acidity (pH)	<u>7.91</u>	ppm
Specific Gravity	<u>1.026</u>	
Oil	<u>7.0</u>	
Total Dissolved Solids	<u>2,285</u>	ppm
Calcium (Ca)	<u>995</u>	ppm
Magnesium (Mg)	<u>148</u>	ppm
Sulfate (SO ₄)	<u>5,304</u>	ppm
Chloride (Cl)	<u>12.57</u>	ppm
Carbonates (CO ₃)	<u>Negative</u>	
Bicarbonates (HCO ₃)	<u>200</u>	ppm
Total Iron	<u>10.00</u>	ppm

Milligrams per liter

ANALYZED BY: Ed. Lewis

LABORATORY: Ed. Lewis

Ed. Lewis

Ed. Lewis, Fort Worth, Texas

GOVERNOR
JACK M. CAMPBELL
CHAIRMAN

State of New Mexico
Oil Conservation Commission



LAND COMMISSIONER
E. S. JOHNNY WALKER
MEMBER

P. O. BOX 871
SANTA FE

STATE GEOLOGIST
A. L. PORTER, JR.
SECRETARY - DIRECTOR

January 21, 1964

Mr. William E. Fickert
Ryder Scott Company
Petroleum Engineers
Midland, Texas

Dear Sir:

Reference is made to your letter of January 17, 1964, wherein you request approval to develop your Stanton Oil Company Turkey Track Waterflood Project and drill additional injection wells at your discretion.

We do not have authority to grant administrative approval to this type of application. It is possible to secure approval only after notice and hearing. Please advise if you wish this matter set down for hearing.

Very truly yours,

DANIEL S. NUTTER
Chief Engineer

DSN/ir



STATE OF NEW MEXICO

STATE ENGINEER OFFICE

SANTA FE

S. E. REYNOLDS
STATE ENGINEER

January 27, 1964

ADDRESS CORRESPONDENCE TO:
STATE CAPITOL
SANTA FE, N. M.

Mr. A. L. Porter, Jr.
Secretary-Director
Oil Conservation Commission
Santa Fe, New Mexico

Dear Mr. Porter:

Reference is made to the application of Stanton Oil Company, Ltd., which seeks administrative approval to develop their Turkey Tract (Queen) Field water flood at their discretion as shown on a map attached to the application. A diagram of proposed well casing is included in the attachments to the application. The diagram indicates a packer set immediately above the Queen Sand Pay but there is no indication as to the depth at which the packer will be set.

This office offers no objection to the granting of the application provided the packer is set below the top of the cement surrounding the 4½ inch production string. The diagram indicates the top of the cement to be at 1600 feet below land surface.

Yours truly,

FEI/ma
cc-Stanton Oil Co.Ltd.
Ryder Scott Co.
F. G. Hennighausen

S. E. Reynolds
State Engineer

By: 
Frank E. Irby
Chief
Water Rights Division

RYDER SCOTT COMPANY
PETROLEUM ENGINEERS

MIDLAND ,

TEXAS

January 29, 1964

1964 JAN 31 11 11 AM '64

Mr. David S. Nutter
Oil Conservation Commission
P. O. Box 871
Santa Fe, New Mexico

Dear Mr. Nutter:

As you requested in our telephone conversation on Monday, we are enclosing Form C-116 for Brainard Well No. 1. This well actually produces into a tank by itself with the daily oil production varying from 4.5 BOPD to 5.5 BOPD.

With reference to the map attached to the letter to Mr. Porter of January 17, 1964, we request approval to expand the waterflood by injecting water into Brainard No. 7-W and No. 8-W which are to be drilled in the near future. We intend to inject down tubing set on a packer. The packer as shown in the diagram (see above letter) will be set just above the Queen Sand and well below the top of the cement which is to be at 1600 feet.

In the near future we will ask for a hearing regarding full project expansion.

We respectfully request that our proposal to expand injection operations to Brainard No. 7-W and No. 8-W receive administrative approval.

Yours very truly,

RYDER SCOTT COMPANY
PETROLEUM ENGINEERS



William E. Fickert

WEF:ab
w/attachment (1)
cc: Mr. Frank Irby
Mr. R. C. Davoust

NEW MEXICO OIL CONSERVATION COMMISSION

GAS-OIL RATIO REPORT

OPERATOR Stanton Oil Company, Ltd. POOL Turkey Track Queen
 ADDRESS 306 Wilkinson Foster Bldg. MONTH OF January 28, 1964
 SCHEDULED TEST..... COMPLETION TEST..... SPECIAL TEST X..... (Check One)
 (See Instructions on Reverse Side)

Lease	Well No.	Date of Test	Producing Method	Choke Size	Test Hours	Daily Allowable Bbls.	Production During Test			GOR Cu. Ft. Per Bbl.
							Water Bbls.	Oil Bbls.	Gas MCF	
Brainard	1	1-23	Pump		24	7	0	5.52	-	TSTM

No well will be assigned an allowable greater than the amount of oil produced on the official test.

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Commission.

Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60 degrees F. Specific gravity base will be 0.60.

Mail original and one copy of this report to the district office of the New Mexico Oil Conservation Commission. In accordance with Rule 301 and Appropriate Pool Rules.

(I certify that the information given is true and complete to the best of my knowledge.)

Date January 29, 1964

Stanton Oil Company, Ltd.

By Wm. E. Fickert
Company

Agent

Title