

Case  
4010

PLEASE REFER TO:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY  
P. O. Drawer U  
Artesia, New Mexico 88210

RECEIVED
OIL CONSERVATION
COMMISSION
NOV 23 1968
CASE NO. 4010

December 23, 1968

John H. Trigg Company  
Post Office Box 520  
Roswell, New Mexico 88201

Gentlemen:

Your letter of December 23, 1968 requests approval to operate a waterflood of the San Andres formation on oil and gas lease Las Cruces 066445 described as follows:

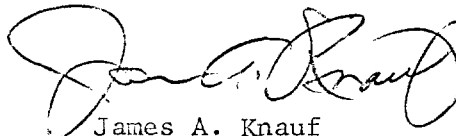
T. 18 S., R. 26 E., N.M.P.M., Eddy County, New Mexico  
section 1; SE $\frac{1}{2}$ NE $\frac{1}{2}$ , E $\frac{1}{2}$ SE $\frac{1}{2}$

You propose to convert to water injection your well No. 1-Empire Federal "J" located in the SE $\frac{1}{2}$ SE $\frac{1}{2}$  of above section to continue the flood pattern of the adjoining flood to the southeast.

The plan for operating the above described waterflood project as proposed in the application is satisfactory to this office and hereby approved subject to like approval by the New Mexico Oil Conservation Commission and the following:

1. This project will be operated in compliance with the New Mexico Oil Conservation Commission regulations governing waterflood operations.
2. Duplicate copies of a monthly progress report (N.M.O.C.C. form C-120 acceptable) are to be submitted to this office showing the volume of water injected and average pressures for the injection wells and production for the producing wells in the project area.
3. This approval does not preclude the necessity for further approval when the project is expanded to include other wells and leases or the necessity to submit the usual notices and reports on wells involved.

Sincerely yours,



James A. Knauf  
District Engineer

cc: N.M.O.C.C., Santa Fe  
Roswell  
File - Accounts

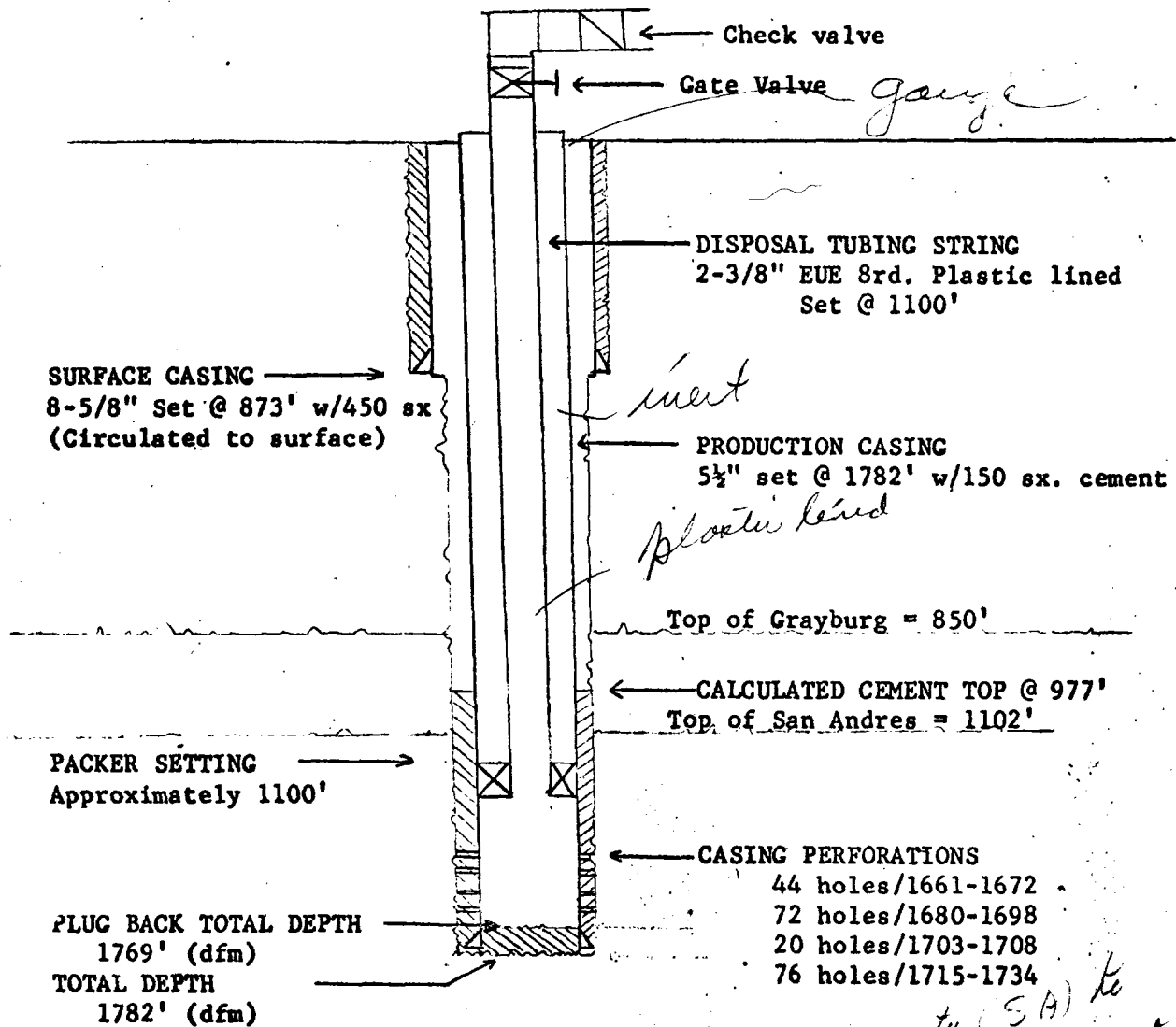
JOHN H. TRIGG COMPANY

P. O. BOX 106

MALJAMAR, NEW MEXICO

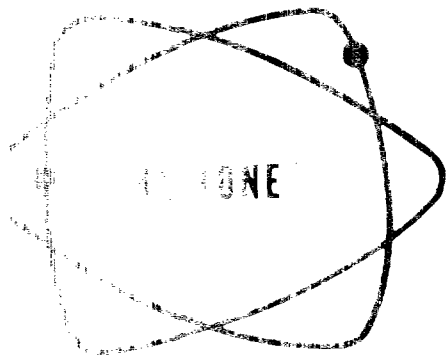
John H. Trigg Company  
Empire "J" Federal No. 1  
990/S & 365/E  
Sec. 1, T18S, R26E

Proposed Water Injection Schematic  
(San Andres Formation)



BEFORE EXAMINER MUTTER  
OIL CONSERVATION COMMISSION  
EXHIBIT NO. 4  
CASE NO. 4010

*produces water (SA) to  
be recycled  
50 BWD initial - later up to 300  
" vacuum  
may take  
pressure later*



# UNITED CHEMICAL CORPORATION

OF NEW MEXICO

601 NORTH LEECH

P. O. BOX 1499

HOBBS, NEW MEXICO 88240

Company John H. Trigg

Field Eddy County San Andres

Lease Federal J. Empire Sampling Date 12/23/68

Type of Sample \_\_\_\_\_

WATER ANALYSIS		E P M	P P M
IONIC FORM		xxxxx	xxxxx
		91.07	1825
		37.17	452
(Cal.)		3114.21	71,596
		11.41	696
		NOT	FOUND
		NOT	FOUND
		89.48	4298
		3141.56	111,403
		128.24	6412
	(Ca temporary)	11.41	571
	(CaCO <sub>3</sub> permanent)	116.83	5842
		11.41	571
		1.140	

6.8 @ 68

at 105° F. C

at 60° F. C

at 50° F. C

at 40° F. C

at 30° F. C

at 20° F. C

at 10° F. C

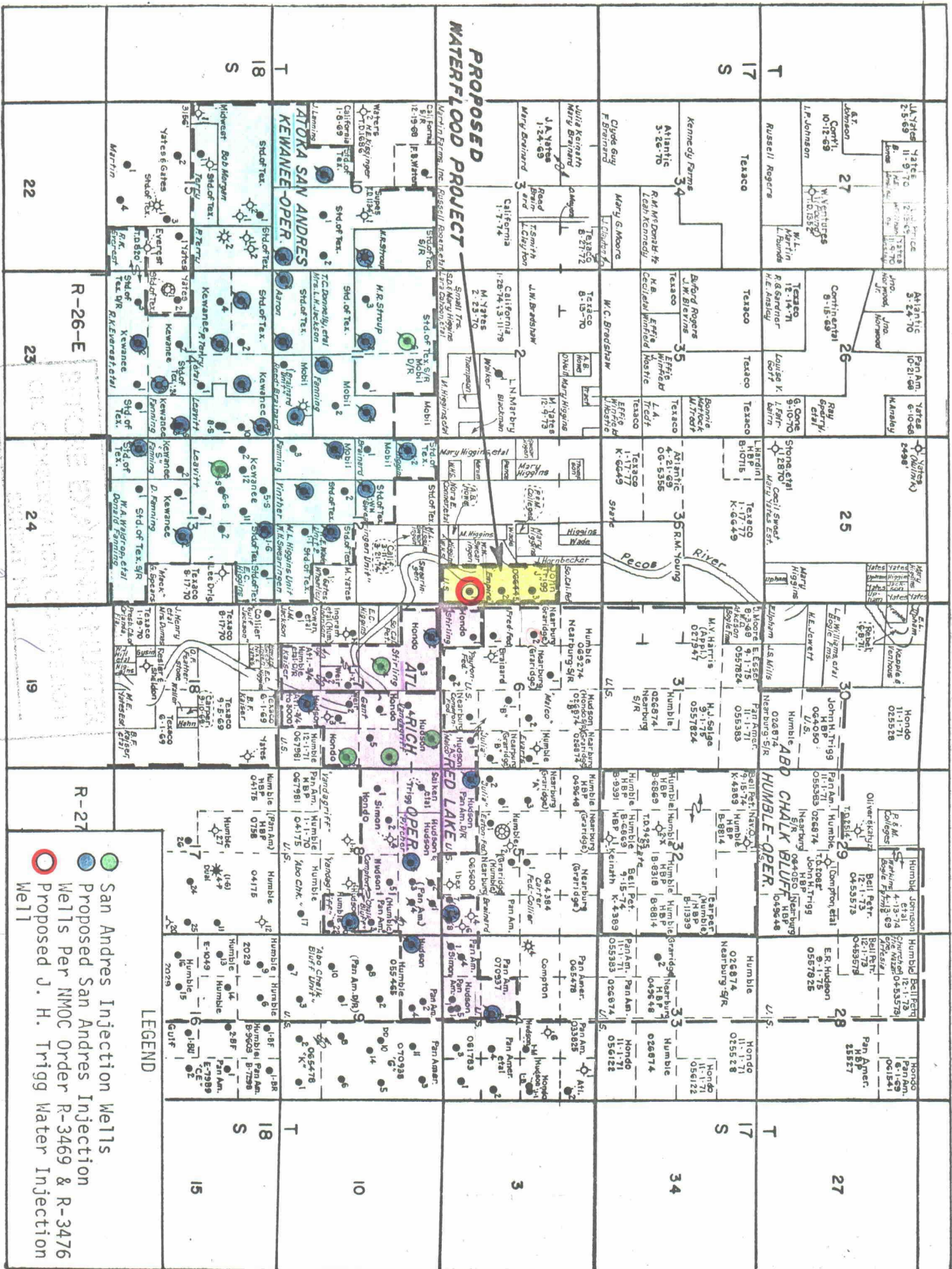
at 0° F. C

at -10° F. C

at -20° F. C

DEPT. OF PUBLIC AFFAIRS  
 DIVISION OF WATER RESOURCES  
 HOUSTON, TEXAS  
 4010

## Makes Water Work



CASE NO. 4010

**LEGEND**

- San Andres Injection Wells
- Proposed San Andres Injection Wells Per NMOG Order R-3469 & R-3476
- Proposed J. H. Trigg Water Injection Well

R-26-E

R-27

T 17 S

T 18 S

T 27 S

3 4

10

22 23 24 19 29 28

25 26 27

15