

BEFORE EXAMINER UTZ  
OIL CONSERVATION COMMISSION

EXHIBIT NO. 4

CASE NO. 3368

DATA SHEET  
STANDARD OIL COMPANY OF TEXAS  
MALJAMAR-GRAYBURG WATERFLOOD PROJECT

Formation  
Composition  
Average Depth  
Type Structure

Grayburg  
Dolomitic Sand  
4050'  
Anticline

Unit Area

	No. of Producing Wells	No. of Injection Wells	Undeveloped 40-Acre Units	Total 40-Acre Units
Standard of Texas	60	16	8	81
Cima Capitan	3	-	1	4
Phillips	1	-	-	1
	<u>64</u>	<u>16</u>	<u>9</u>	<u>86</u>

Area: 3441 Acres

Injection Data

Source No. 1: Fresh Water supplied by company-operated water supply well (located NE NE SE Section 1, Township 17 South, Range 32 East) producing from Tertiary Sands at approximately 270 feet. Furnishes water to Section 10 plant for injection on Sections 2, 3, 10, and 11.

Source No. 2: Fresh water purchased from Double-Eagle Corporation of New Mexico. Furnishes water to Section 4 plant for injection on Sections 4, 9, and 15.

Source No. 3: A part of the produced water will be injected in the near future. We intend to inject about 200 barrels per day of produced water into Iles Federal No. 2 (Unit B, Section 10) primarily for disposal purposes. The produced salt water will be filtered, scavenged, and inhibited.

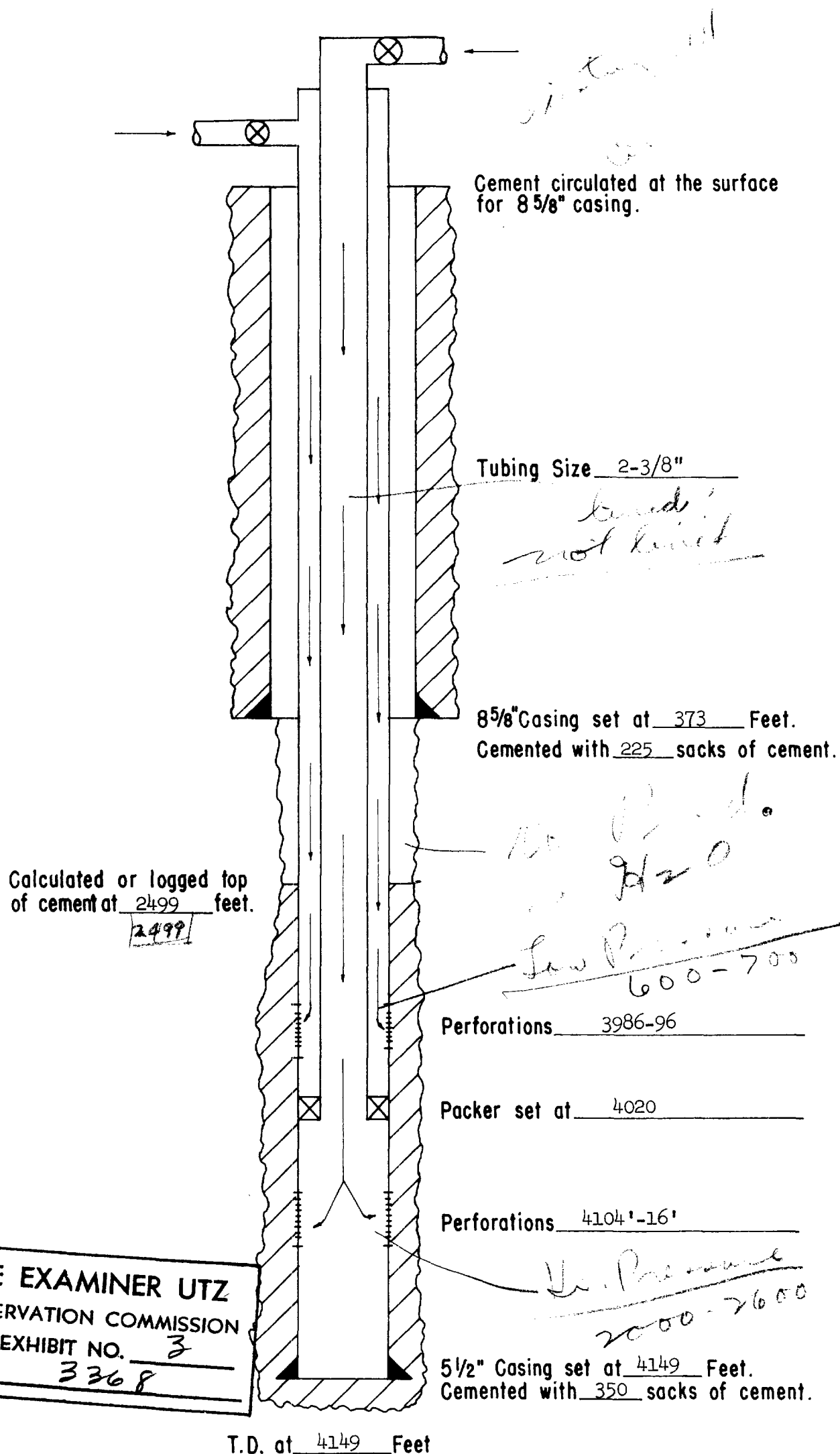
Water Analyses:

	<u>Source 1</u>	<u>Source 2</u>	<u>Source 3</u>
pH	7.1	7.3	7.4
CO <sub>2</sub>	17	16	12
O <sub>2</sub>	7.5	9.5	0
H <sub>2</sub> S	0	0	Trace
SiO <sub>2</sub>	0.2	0.3	30
HCO <sub>3</sub>	180	190	310
Cl	26	26	45,000
CaCO <sub>3</sub>	190	180	15,000
Ca	47	48	3,080
Mg	17	14	1,750
SO <sub>4</sub>	25	20	3,600
Fe	0.08	0.06	0.9
Solids	300	300	83,500

Present Injection Rate	4530 BWPD
Anticipated Injection Rate After Expansion	5940 BWPD
Present Injection Pressure	650 - 2675 psig
Cumulative Water Injected (12/1/65)	2,971,568 Barrels

## PROPOSED WATER INJECTION WELL

WELL NAME AND NUMBER Iles Federal No. 32



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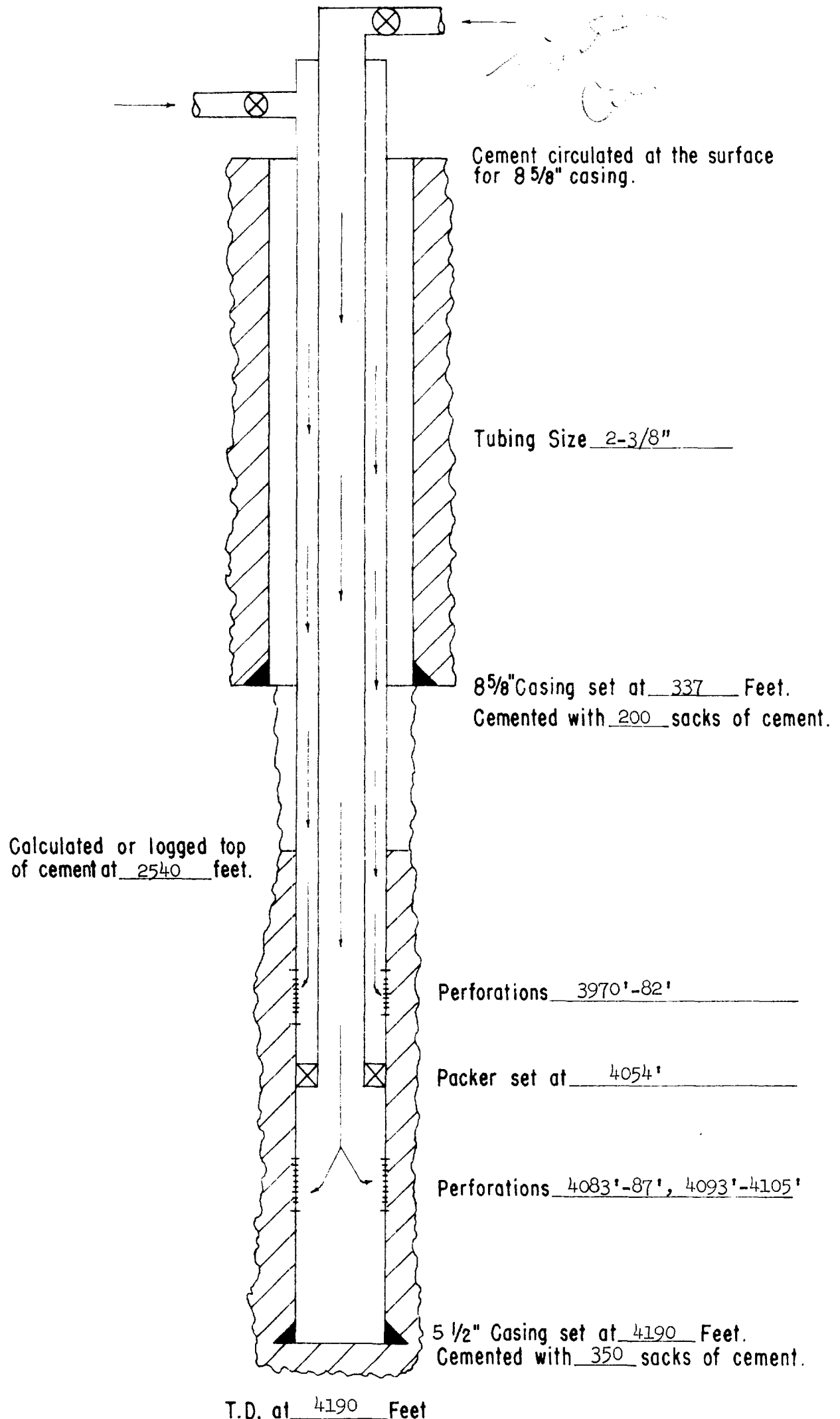
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T.D. at 4149 Feet

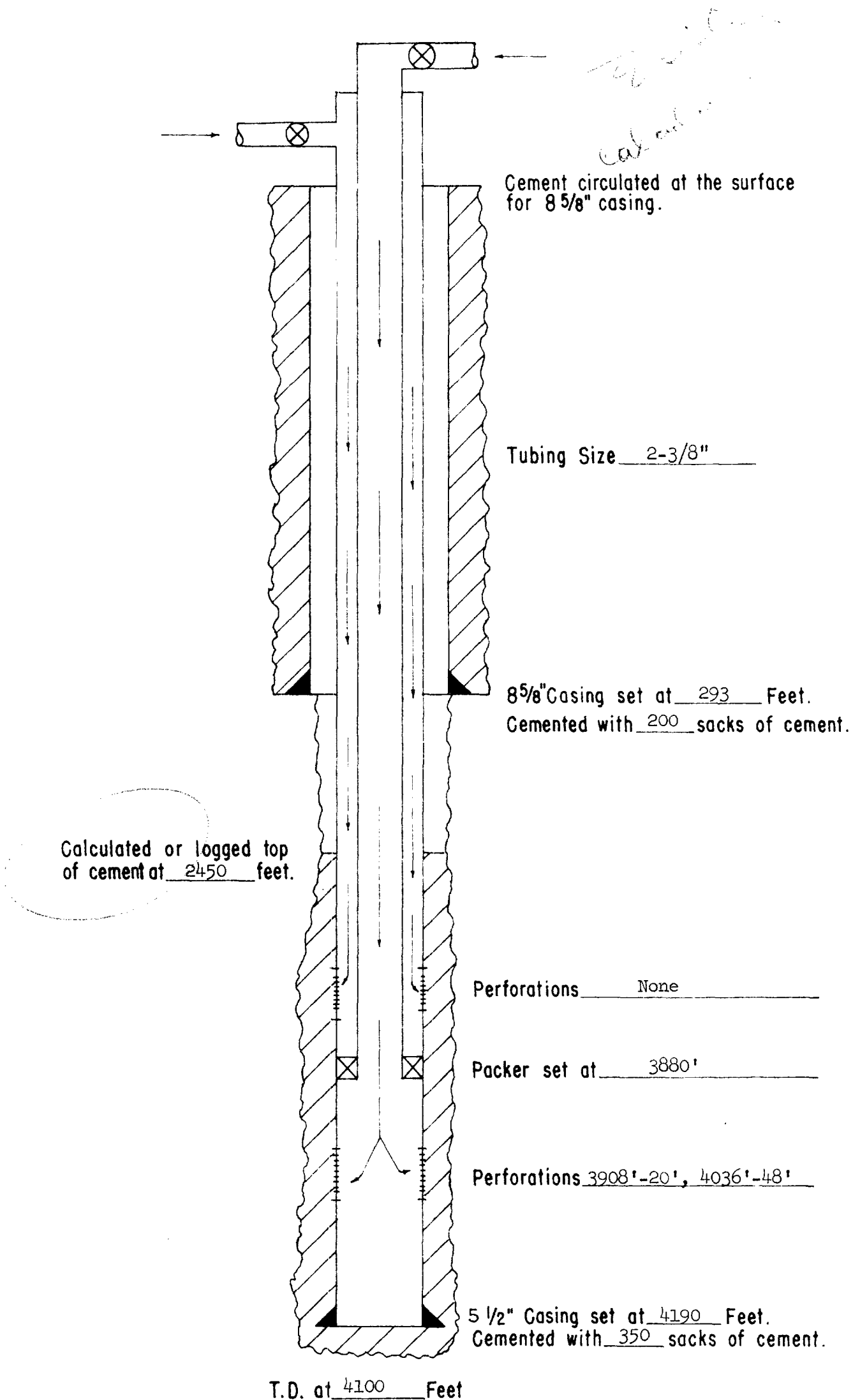
# PROPOSED WATER INJECTION WELL

WELL NAME AND NUMBER Iles Federal No. 26



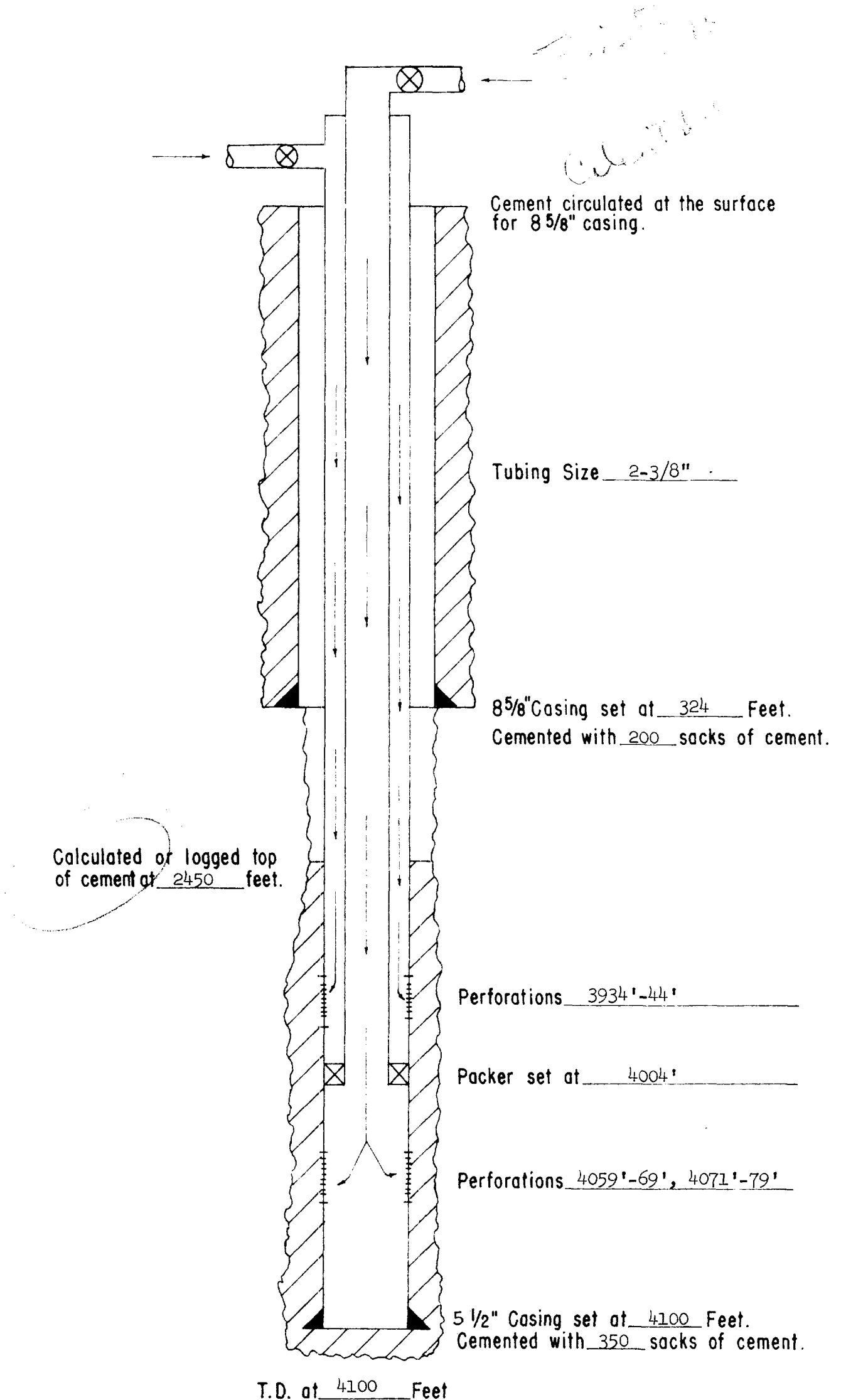
# PROPOSED WATER INJECTION WELL

WELL NAME AND NUMBER Iles Federal No. 28



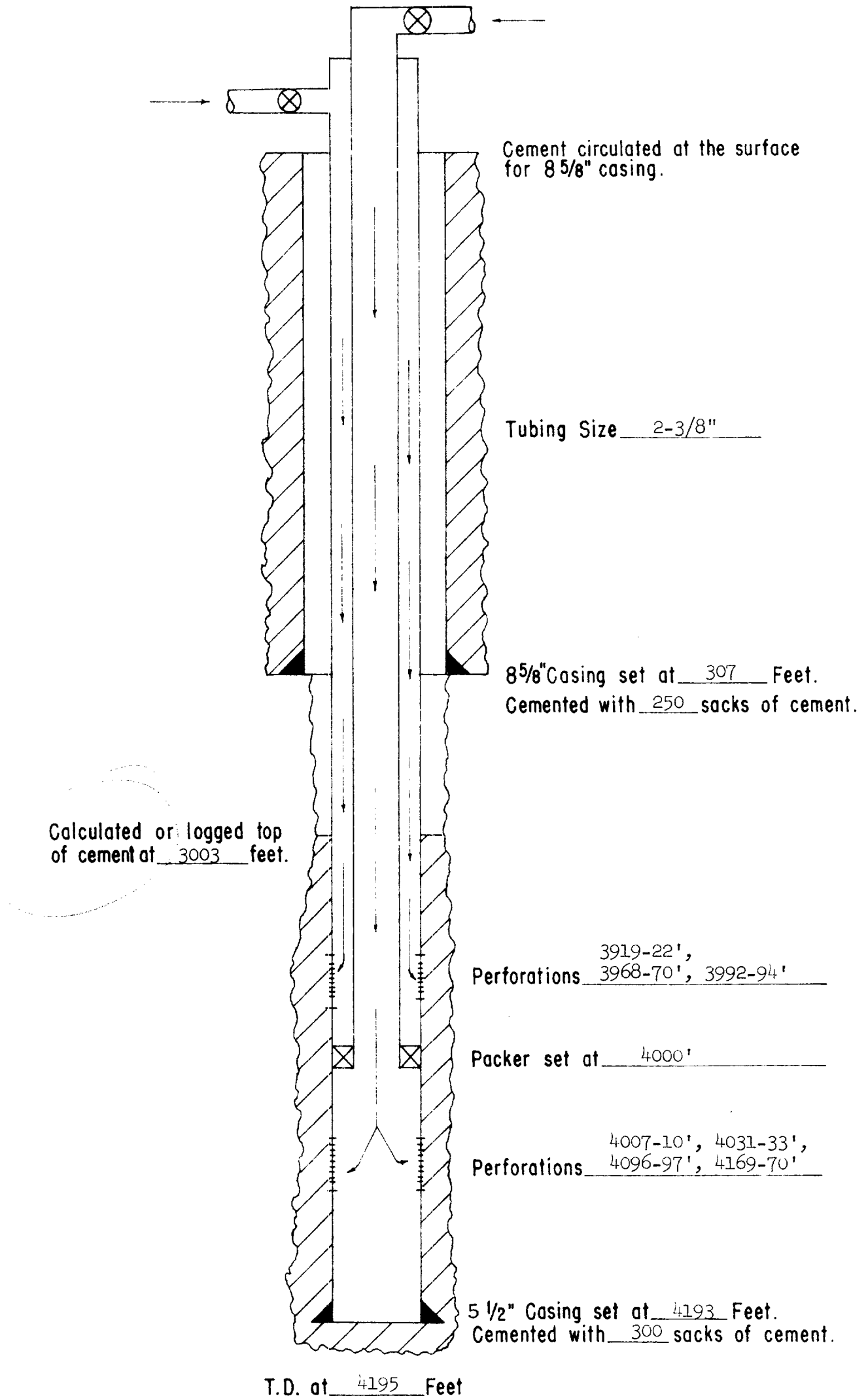
# PROPOSED WATER INJECTION WELL

WELL NAME AND NUMBER A. C. Taylor E No. 3



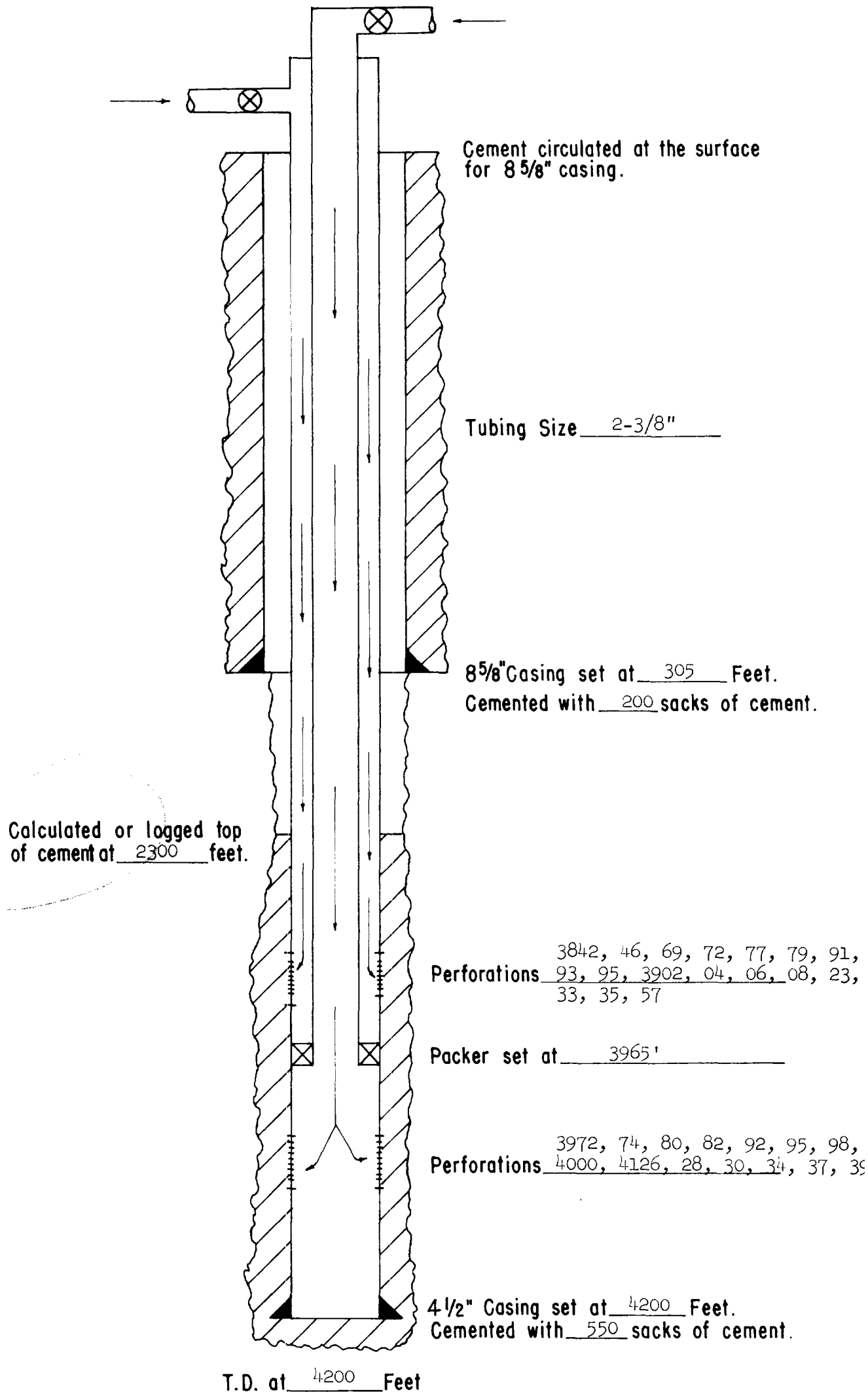
# PROPOSED WATER INJECTION WELL

WELL NAME AND NUMBER Sinclair Taylor No. 1



# PROPOSED WATER INJECTION WELL

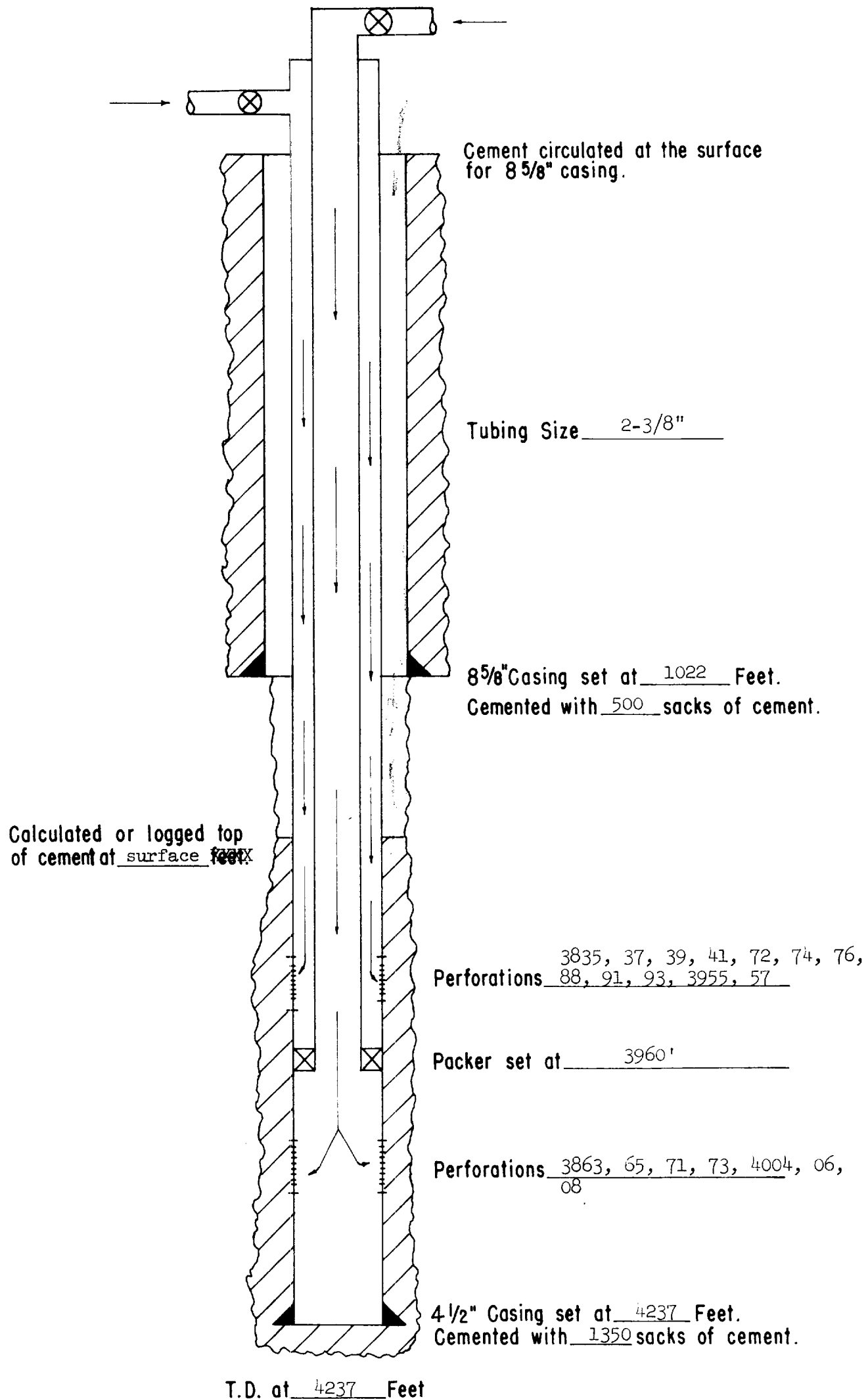
WELL NAME AND NUMBER Taylor et al No. 3





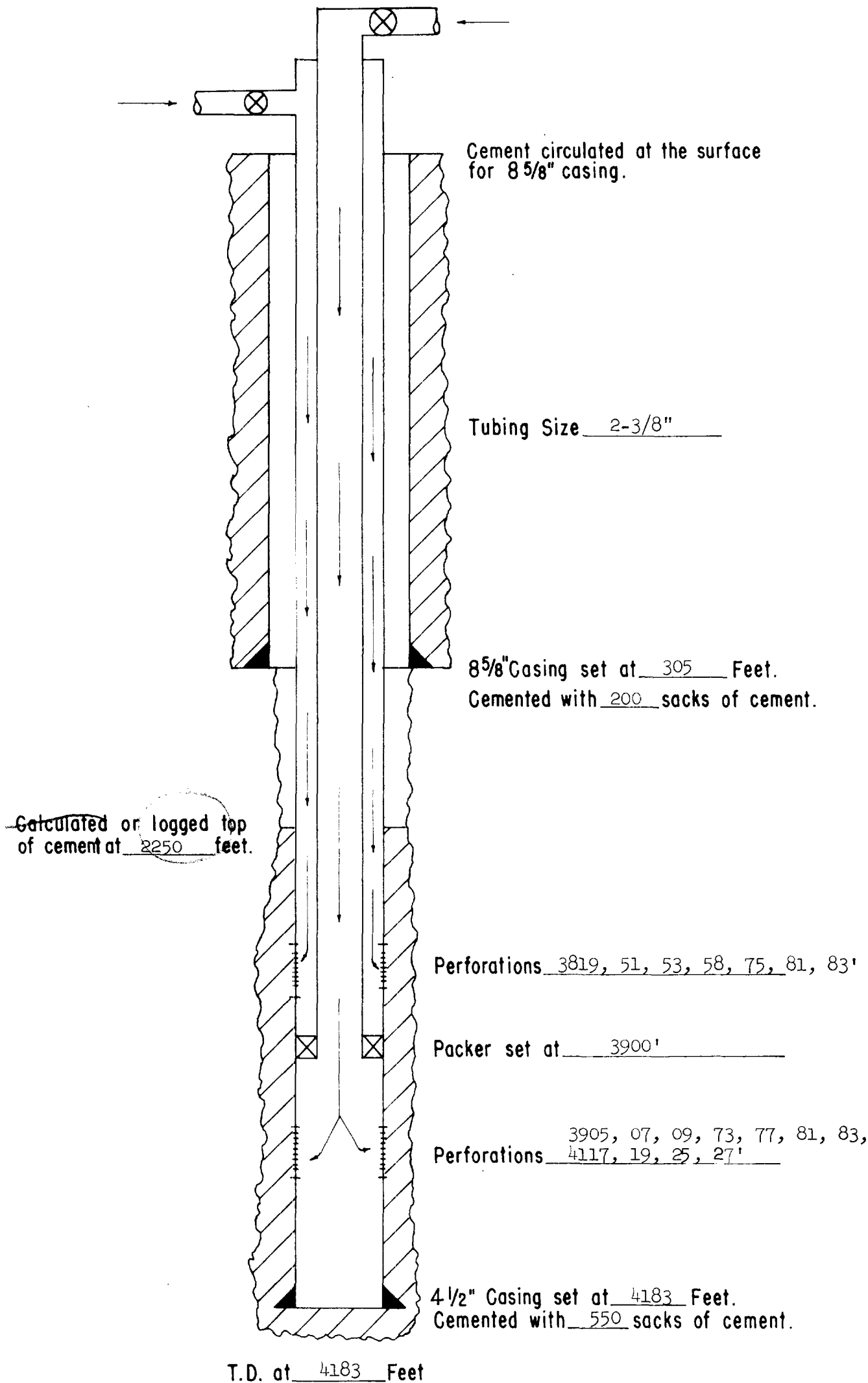
# PROPOSED WATER INJECTION WELL

WELL NAME AND NUMBER Taylor H No. 2



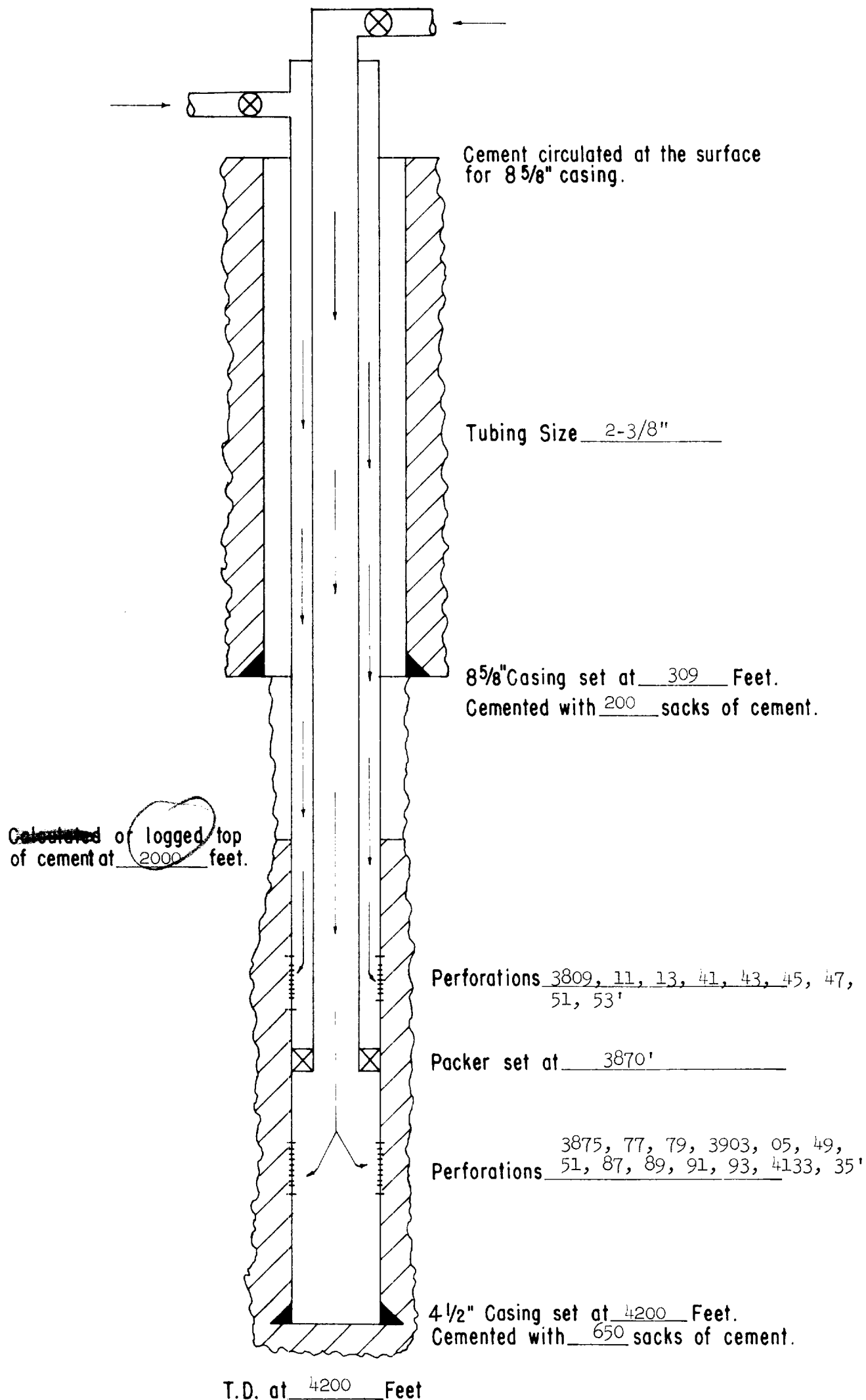
# PROPOSED WATER INJECTION WELL

WELL NAME AND NUMBER Iles X Federal No. 8



# PROPOSED WATER INJECTION WELL

WELL NAME AND NUMBER Iles Federal No. 36



STANDARD OIL COMPANY OF TEXAS  
MALJAMAR-GRAYBURG WATERFLOOD  
WELLS TO BE ADDED TO PROJECT AREA

<u>Lease</u>	<u>Well</u>	<u>Unit</u>	<u>Section</u>	<u>Requested Allowable</u>
Atlantic-Federal	1	H	3	4
Atlantic-Federal	2	H	4	20
Atlantic-Federal	3	G	4	8
Iles Federal	18	H	15	10
Iles Federal	23	G	15	10
Iles Federal	34	A	15	15
Iles Federal	35	E	9	24
Iles Federal	36	B	15	Input
Iles Federal	37	F	9	24
Iles X Federal	5	P	9	8
Iles X Federal	8	N	10	Input
Iles X Federal	9	M	10	25
Sinclair-Taylor	1	F	4	Input
Sinclair-Taylor	2	E	4	19
Taylor et al	1	J	9	8
Taylor et al	2	I	9	42
Taylor et al	3	H	9	Input
Taylor et al	4	G	9	20
Taylor H	2	L	10	Input

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EXHIBIT NO. 5

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