

100
DEC 10 1968

TOM L. INGRAM

100 SOUTH KENTUCKY AVENUE
ROSWELL, NEW MEXICO 88201

December 3, 1968

SWD-93
Dec 19 20

State of New Mexico
Oil Conservation Commission
P. O. Box 1980
Hobbs, New Mexico 88240

Re: Disposal of Salt Water

Gentlemen:

In accordance with Rule 701-C, it is requested that administrative approval be given to classify the Tom L. Ingram #2 State, located 1650 FNL & 990 FWL Section 32, T8S, R38E, Roosevelt County, New Mexico as a water disposal well. Devonian water from the Tom L. Ingram #1 State, located 660 FNL & 1980 FWL of Section 32 will be injected into the Canyon formation in the #2 well. Both of these wells are located on New Mexico State Lease No. K-2610. No oil production has been obtained from this formation within a two mile radius.

The only well other than the #1 State that is producing or has produced oil within a two mile radius is the Fasken #1 Green, located in Section 30, T8S, R38E. This well originally produced from the Bough "C" formation but has now been abandoned.

To assist you in making your decision, I have attached the following:

1. Form C-108
2. Plat showing wells and leases
3. Log of the proposed injection well
4. Diagrammatic sketch of well with casing, perforations, etc.
5. Analysis of produced water
6. Analysis of water from injected zone
7. Copy of RW-1 requesting approval of right-of-way easement and RW-10 Questionnaire
8. Copy of letter to operators within 1/2 mile of well.

Very truly yours,

Tom L. Ingram

Tom L. Ingram

TLI*pm
Encls.

copy of letter to operators from 1/2 mile of well
7/1/68

TOM L. INGRAM

100 SOUTH KENTUCKY AVENUE

ROSWELL, NEW MEXICO 88201

December 16, 1968

DEC 17 1 01 PM '68

State of New Mexico
Oil Conservation Commission
Santa Fe, New Mexico


Re: Water Disposal
North Sawyer Devonian
Roosevelt County, New Mexico

Attention: Mr. A. L. Porter

Gentlemen:

On December 3, 1968, I applied for administrative approval for conversion to a salt water disposal well. I am attaching hereto waivers signed by Atlantic Richfield and Tenneco Oil Company. These are the only two oil operators having leases in the vicinity.

Very truly yours,


Tom L. Ingram *lyms*

TLI*pms
Encls.

cc New Mexico Oil Conservation Commission
P. O. Box 1980
Hobbs, New Mexico 88240

TOM L. INGRAM
100 SOUTH KENTUCKY AVENUE
ROSWELL, NEW MEXICO 88201

December 4, 1968

RECEIVED

DEC 5 1968

**MIDLAND DISTRICT
PRODUCTION**

RECEIVED DEC 16 1968

Atlantic Richfield Company
P. O. Box 1978
Roswell, New Mexico 88201

Mr. L. H. Armour, Jr.
135 South LaSalle Street, Suite 1940
Chicago, Illinois 60603

Mr. L. H. Tyson
Wilkinson-Foster Building
Midland, Texas

Tenneco Oil Company
P. O. Box 1031
Midland, Texas 79701

Re Salt Water Disposal Well
North Sawyer Devonian
Roosevelt County, New Mexico

Gentlemen:

I am attaching hereto a copy of Form C-108 and accompanying data for the converting of the Tom L. Ingram #2 State to a Salt Water Disposal Well. In accordance with Rule 701-C, I am notifying each of you as to my intentions.

As January 1, 1969 is the deadline for the elimination of surface disposal, I am requesting that each of you execute this letter indicating that you have no objections to my proposal and returning it to me as soon as possible.

Very truly yours,



Tom L. Ingram

TLI*pms
Attachm.

APPROVED BY: *F. J. McDonald*
DATED: 12-12-68

TOM L. INGRAM

100 SOUTH KENTUCKY AVENUE
ROSWELL, NEW MEXICO 88201

December 4, 1968

RECEIVED 530 6 1968

Atlantic Richfield Company
P. O. Box 1978
Roswell, New Mexico 88201

Mr. L. H. Armour, Jr.
135 South LaSalle Street, Suite 1940
Chicago, Illinois 60603

Mr. L. H. Tyson
Wilkinson-Foster Building
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P. O. Box 1031
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Re Salt Water Disposal Well
North Sawyer Devonian
Roosevelt County, New Mexico

Gentlemen:

I am attaching hereto a copy of Form C-108 and accompanying data for the converting of the Tom L. Ingram #2 State to a Salt Water Disposal Well. In accordance with Rule 701-C, I am notifying each of you as to my intentions.

As January 1, 1969 is the deadline for the elimination of surface disposal, I am requesting that each of you execute this letter indicating that you have no objections to my proposal and returning it to me as soon as possible.


Very truly yours,



Tom L. Ingram

TLI:pms
Attachm.

APPROVED BY:



DATED: December 6, 1968

NEW MEXICO OIL CONSERVATION COMMISSION
APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION

OPERATOR Tom L. Ingram		ADDRESS P. O. Box 1757, Roswell, New Mexico 88201	
LEASE NAME State	WELL NO. 2	FIELD North Sawyer Devonian	COUNTY Roosevelt
LOCATION UNIT LETTER E ; WELL IS LOCATED 1650 FEET FROM THE North LINE AND 990 FEET FROM THE West LINE, SECTION 32 TOWNSHIP 8S RANGE 38E NMPM.			

CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING	13-3/8	405	326	Surface	Circulation
INTERMEDIATE	8-5/8	4126	720	1400	Temperature Survey
LONG STRING	5-1/2	11476	430	8107	Temperature Survey
TUBING	2-3/8	9000	NAME, MODEL AND DEPTH OF TUBING PACKER Baker Model R at 9000		

NAME OF PROPOSED INJECTION FORMATION Canyon	TOP OF FORMATION 9515	BOTTOM OF FORMATION 9560
---	---------------------------------	------------------------------------

IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? Tubing	PERFORATIONS OR OPEN HOLES? Perf. 9526-9536	PROPOSED INTERVAL(S) OF INJECTION 9526-9536
---	---	---

IS THIS A NEW WELL DRILLED FOR DISPOSAL? No	IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? As an oil well	HAS WELL EVER BEEN PERFORATED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE? Yes
---	---	---

LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH
11,408-420, 154 sx. & bridge plug @ 10,900'. 9392-9408 w/47 sx.

DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA 250'	DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA None	DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA 11,344'
---	--	---

ANTICIPATED DAILY INJECTION VOLUME (BBLS.) 600	MINIMUM 100	MAXIMUM 1000	OPEN OR CLOSED TYPE SYSTEM closed	IS INJECTION TO BE BY GRAVITY OR PRESSURE? gravity	APPROX. PRESSURE (PSI) vacuum
--	-----------------------	------------------------	---	--	---

ANSWER YES OR NO WHETHER THE FOLLOWING WATERS ARE MINERALIZED TO SUCH A DEGREE AS TO BE UNFIT FOR DOMESTIC, STOCK, IRRIGATION, OR OTHER GENERAL USE - Yes	WATER TO BE DISPOSED OF Yes	NATURAL WATER IN DISPOSAL ZONE Yes	ARE WATER ANALYSES ATTACHED? Yes
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NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND) M. E. Bilbrey, Box 61, Bledsoe, Texas

LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL Atlantic Richfield Company, P. O. Box 1978, Roswell, New Mexico 88201 L. H. Tyson, Wilkinson-Foster Building, Midland, Texas L. H. Armour, Jr., 135 South LaSalle St., Suite 1940, Chicago, Illinois 60603 Tenneco Oil Company, Box 1031, Midland, Texas 79701
--

HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING? Yes	SURFACE OWNER Yes	EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL Yes	THE NEW MEXICO STATE ENGINEER Yes
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B) Yes	PLAT OF AREA Yes	ELECTRICAL LOG Yes	DIAGRAMMATIC SKETCH OF WELL Yes

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

Tom L. Ingram Operator December 3, 1968
(Signature) (Title) (Date)

NOTE: Should waivers from the State Engineer, the surface owner, and all operators within one-half mile of the proposed injection well not accompany this application, the New Mexico Oil Conservation Commission will hold the application for a period of 15 days from the date of receipt by the Commission's Santa Fe office. If at the end of the 15-day waiting period no protest has been received by the Santa Fe office, the application will be processed. If a protest is received, the application will be set for hearing, if the applicant so requests. SEE RULE 701.

Grid of land parcels with owner names, addresses, and phone numbers. Includes names like J.B. Hardeman, W.L. Box, and R.C. Burns. A large 'SAWYER, NO.' watermark is visible across the center.

B-11

COMPANY W. W. WILSON OIL & GAS CO.

WELL W-1 "B.B." #2 State

FIELD WASH. SANDS

COUNTY POOSEWELL STATE NEW MEXICO

LOCATION 1650' FNL
980' FNL

Sec. 23 Twp. 3 Rge. 28E

Other Services: L.M. ...

Perforated Datum: 200' FNL Elev. 2770'

Log Measured From 10' Ft. Above Perm. Datum

Drilling Measured From AA

Date 7-1-57

Run No. 8107

Depth—Driller 177'

Depth—Logger 177'

Top Log Interval 177'

Casing—Driller 2 1/2" @ 25'

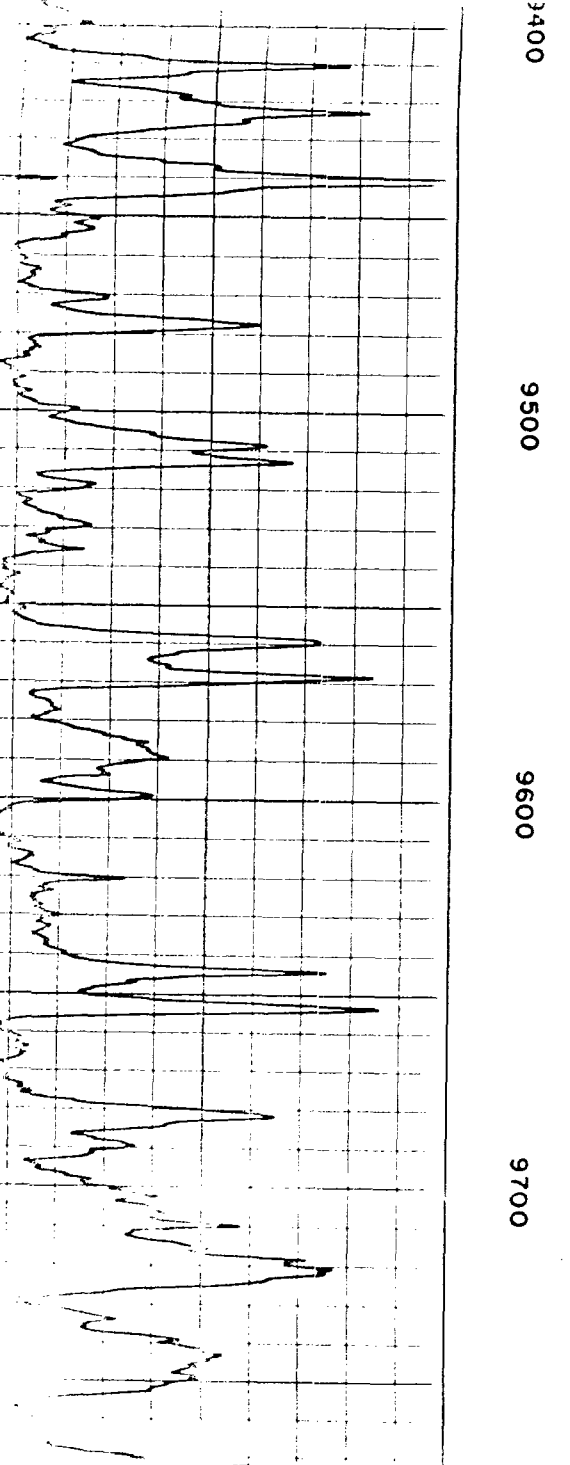
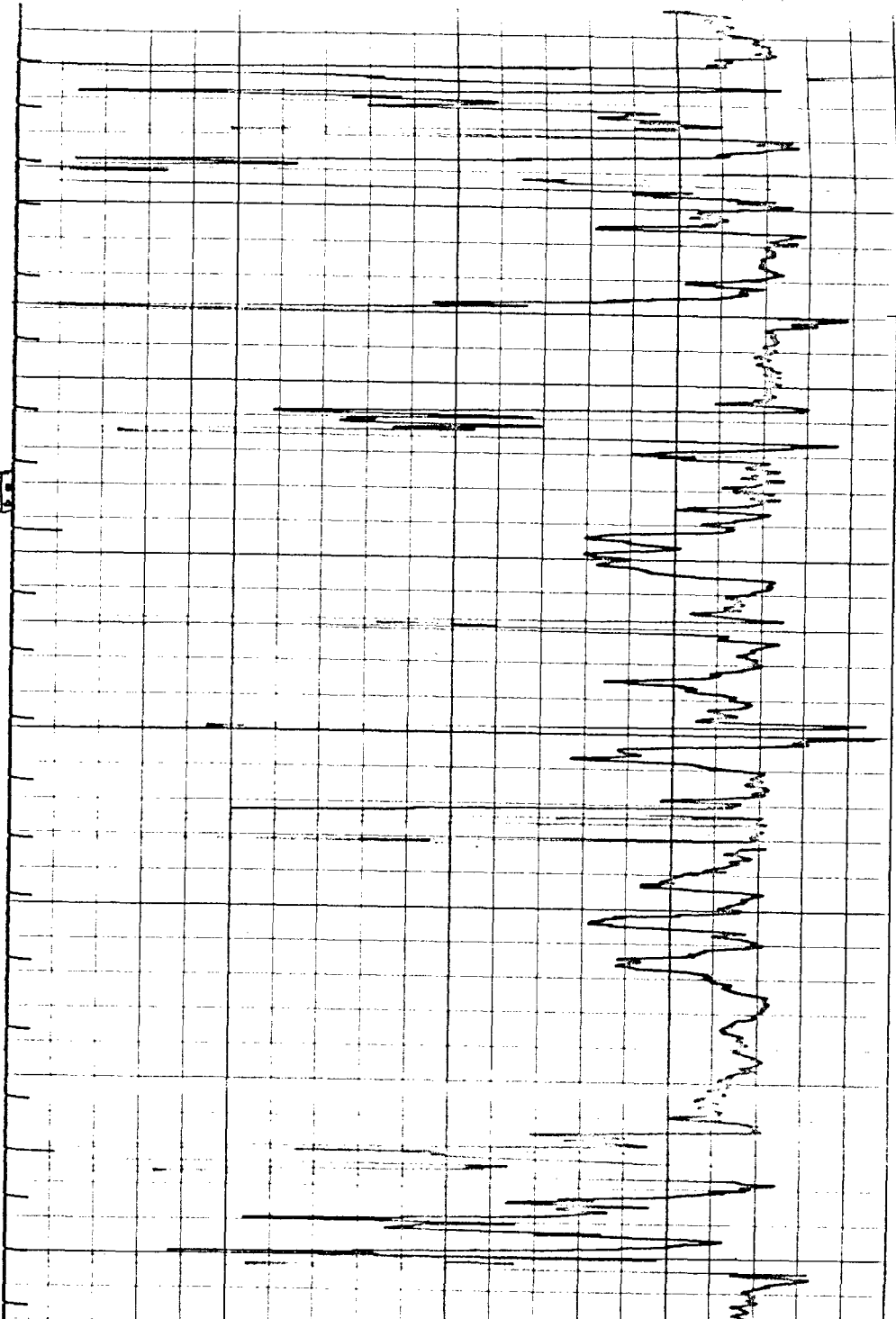
Casing—Logger 2 1/2" @

Bit Size 7/8"

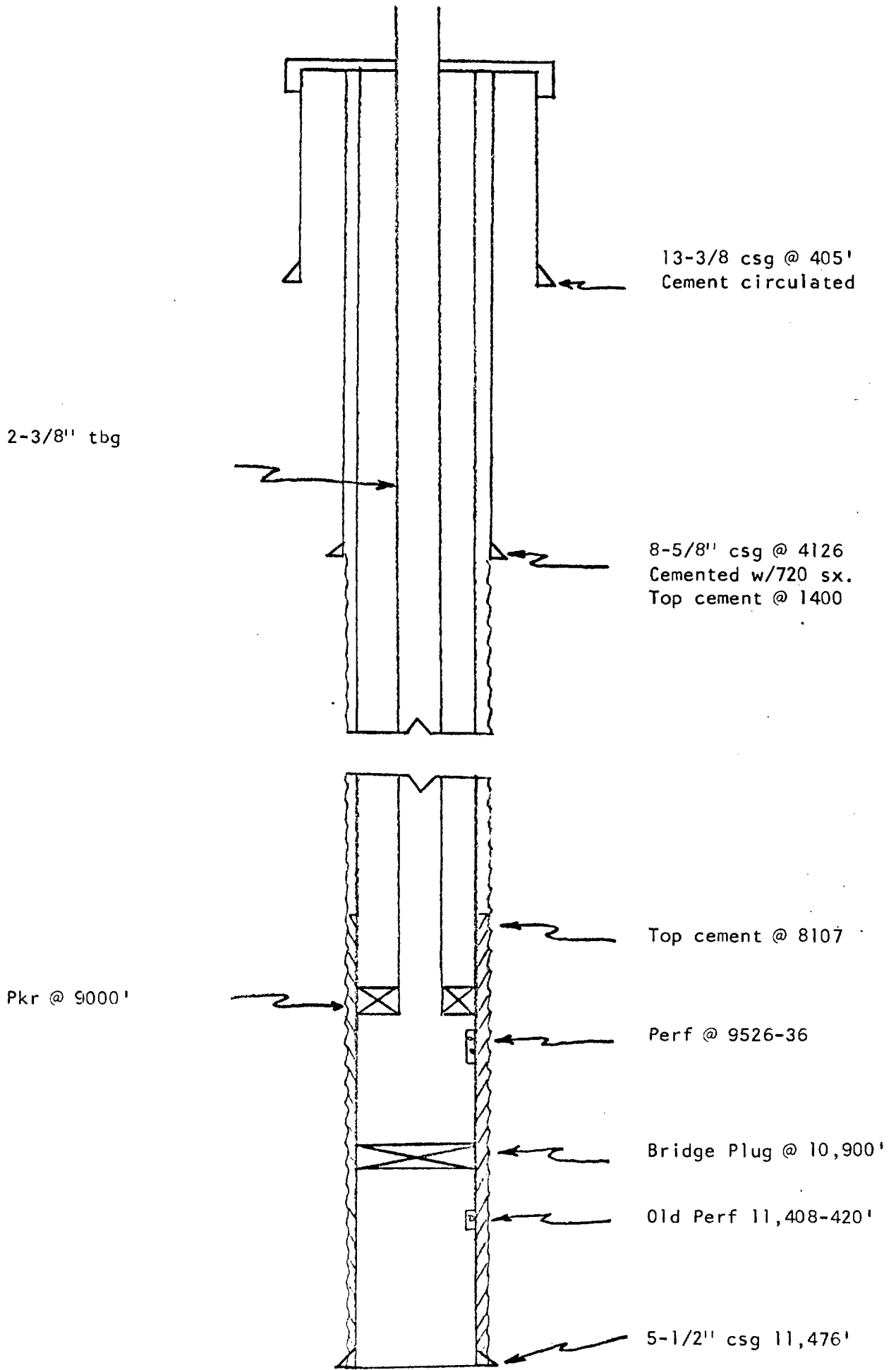
Type Fluid in Hole Water

Depth	Temp	Pressure	Sp. Gr.	Visc.	Loss
0'	60	14.7	1.000	10	0
10'	61	14.8	1.000	10	0
20'	62	14.9	1.000	10	0
30'	63	15.0	1.000	10	0
40'	64	15.1	1.000	10	0
50'	65	15.2	1.000	10	0
60'	66	15.3	1.000	10	0
70'	67	15.4	1.000	10	0
80'	68	15.5	1.000	10	0
90'	69	15.6	1.000	10	0
100'	70	15.7	1.000	10	0
110'	71	15.8	1.000	10	0
120'	72	15.9	1.000	10	0
130'	73	16.0	1.000	10	0
140'	74	16.1	1.000	10	0
150'	75	16.2	1.000	10	0
160'	76	16.3	1.000	10	0
170'	77	16.4	1.000	10	0
177'	78	16.5	1.000	10	0

8107
9699
96



PROPOSED NORTH SAWYER DISPOSAL WELL
 TOM L. INGRAM No. 2 STATE
 SW/4 NW/2 Section 32-T85-R38E
 Roosevelt County, New Mexico



HALLIBURTON DIVISION LABORATORY

HALLIBURTON COMPANY
LOVINGTON, NEW MEXICO

No. W1-115-66

LABORATORY REPORT

Date March 9, 1966

This report is the property of Halliburton Company and neither it nor any part thereof nor a copy thereof is to be published or disclosed without first securing the express written approval of laboratory management; it may however, be used in the course of regular business operations by any person or concern and employees thereof receiving such report from Halliburton Company.

To Tom Ingram
Box 1757
Roswell, New Mexico

Date Received

Well & Lease State #2 Depth Formation Penn

Location North of Jack's Bar Field Source

Specific gravity 1.155
60/60 °F

Color, filtrate Clear

pH 6.3

Resistivity 0.048
@ 75 °F ppm (mpl)

Chlorides, Cl 146,400

Sulfates, SO⁴ 1,500

Alkalinity, HCO³ 395

Calcium, Ca 11,700

Magnesium, Mg 3,400

Iron, Fe 100

Sodium, Na* ND

Sulfides, H₂S Nil

Remarks

ppm equals Parts per million uncorrected or milligrams per liter
* includes Potassium as Na.

Laboratory Analyst
Brewer

Respectfully submitted
HALLIBURTON COMPANY
Rex L. Hammack, Jr.

By Rex L. Hammack, Jr., Division Chemist

NOTICE

This report is limited to the described sample tested. Any user of this report agrees that Halliburton shall not be liable for any loss or damage, whether due to act or omission, resulting from such report or its use.

Injected Zone Wt.

H. LIBURTON DIVISION LABORATORY
HALLIBURTON COMPANY
LOVINGTON, NEW MEXICO

No. W1-84-66

LABORATORY REPORT

Date February 22, 1966

This report is the property of Halliburton Company and neither it nor any part thereof nor a copy thereof is to be published or disclosed without first securing the express written approval of laboratory management; it may however, be used in the course of regular business operations by any person or concern and employees thereof receiving such report from Halliburton Company.

To Tom Ingram
Box 1757
Roswell, New Mexico

Date Received

Well & Lease Atlantic State #2 Depth Formation Devonian

Location Field Source

Specific gravity 1.076
60/60 °F

Color, filtrate Clear - Slightly Turbid

pH 6.1

Resistivity 0.091
@ 66 °F ppm (mpl)

Chlorides, Cl 65.200

Sulfates, SO⁴ 1.100

Alkalinity, HCO³ 245

Calcium, Ca 6.720

Magnesium, Mg 1.070

Iron, Fe 75

Sodium, Na* ND

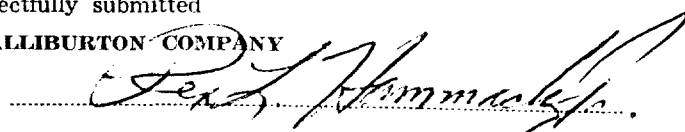
Sulfides, H₂S Nil

Remarks

ppm equals Parts per million uncorrected or milligrams per liter
* includes Potassium as Na.

Laboratory Analyst
Hammack

Respectfully submitted
HALLIBURTON COMPANY



By Rex L. Hammack, Jr., Division Chemist

NOTICE

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(Submit in duplicate to Commissioner of Public Lands, P. O. Box 1148, Santa Fe, New Mexico)

APPLICATION FOR RIGHT-OF-WAY
EASEMENT

DATE December 3, 19 68

COMMISSIONER OF PUBLIC LANDS
STATE LAND OFFICE
SANTA FE, NEW MEXICO

DEAR SIR:

THE TOM L. INGRAM HEREBY SUBMITS
AN APPLICATION FOR A Salt Water Disposal
RIGHT-OF-WAY EASEMENT ACROSS STATE LAND FOR THE PURPOSE OF disposing of Devonian
produced water from the Tom L. Ingram #1 State, located 660 FNL & 1980 FWL of Sec. 32,
T8S, R38E into the Tom L. Ingram #2 State, located 1650 FNL & 990 FWL of Sec. 32, T8S,
R38E in the Canyon formation. Both wells are located on Lease K-2610.

ENCLOSED HERewith ARE TWO COPIES OF SURVEY PLATS OR MAPS SHOWING IN RED THE
SURVEY CENTER LINE, ALSO THE LEGAL DESCRIPTION OF THE PROPOSED RIGHT-OF-WAY
ALLOCATED BY FORTY ACRE TRACTS, AND CERTIFIED BY A NEW MEXICO REGISTERED PRO-
FESSIONAL ENGINEER OR LAND SURVEYOR.

ENCLOSED HERewith ARE: (EITHER OF THE FOLLOWING IS SUFFICIENT TO COVER PAYMENT
FOR ANY DAMAGES THAT MIGHT ACCRUE TO ANY IMPROVEMENTS TO SURFACE LESSEE.

- CONSENT TO RIGHT-OF-WAY AND WAIVER OF PROPERTY DAMAGE BOND.
- A BOND IN THE AMOUNT OF \$500.00 FOR EACH INDIVIDUAL RIGHT-OF-WAY.
- A BLANKET BOND IN THE AMOUNT OF \$2,500.00 IS ON FILE WITH THE STATE LAND
OFFICE.

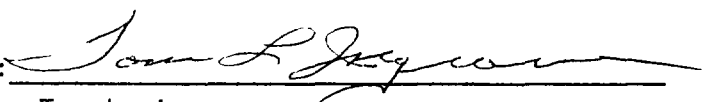
ENCLOSED IS A DRAFT IN THE AMOUNT OF \$ 25.00 FOR two ACRES
AT \$ 10.00 PER ACRE, PLUS \$5.00 APPLICATION FEE.

Tom L. Ingram
P. O. Box 1757, Roswell, N. M.
ADDRESS

QUESTIONNAIRE TO BE COMPLETED IN CONNECTION
WITH SALT WATER DISPOSAL WELL EASEMENT

1. What is the mineral ownership of the land from which the salt water will be produced? Private _____%, State 100%, Federal _____%.
2. What is the approximate number of barrels of salt water that will be injected into the well per day? 600.
3. What is the formation into which the salt water will be injected? Canyon (Pennsylvanian)
4. Have you enclosed consent of the oil and gas lessee for the use as a salt water disposal well? Request attached hereto.

REMARKS: Both the produced well and the disposal well are located on State Lease K-2610. No oil has been produced from the proposed injected zone within five miles of the well site. The surface lessee is M. E. Bilbrey.

Signed By: 
Tom L. Ingram

FOR OFFICE USE ONLY

TOM L. INGRAM

100 SOUTH KENTUCKY AVENUE
ROSWELL, NEW MEXICO 88201

December 4, 1969

Atlantic Richfield Company
P. O. Box 1978
Roswell, New Mexico 88201

Mr. L. W. Armour, Jr.
135 South LaSalle Street, Suite 1940
Chicago, Illinois 60603

Mr. L. H. Tyson
Wilkinson-Foster Building
Midland, Texas

Tenneco Oil Company
P. O. Box 1031
Midland, Texas 79701

Re Salt Water Disposal Well
North Sawyer Devonian
Roosevelt County, New Mexico

Gentlemen:

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As January 1, 1969 is the deadline for the elimination of surface disposal, I am requesting that each of you execute this letter indicating that you have no objections to my proposal and returning it to me as soon as possible.

Very truly yours,

Tom L. Ingram

TLI:mas
Attachment.

APPROVED BY: _____

DATED: _____

cc State of New Mexico
State Engineers Office
P. O. Box 1717
Roswell, New Mexico 88201

Attention: Mr. Fred Hennighausen