

CASE 3976: Appli. of FRANKLIN,
ASTON & FAIR, INC. FOR SALT
WATER DISPOSAL, ROOSEVELT COUNTY.

Case Number

3976

Application

Transcripts.

Small Exhibits

ETC.

dearnley-meier

SPECIALIZING IN: DEPOSITIONS, HEARINGS, STATEMENTS, EXPERT TESTIMONY, DAILY COPY, CONVENTIONS

1120 SIMMS BLDG. • P. O. BOX 1092 • PHONE 243-6691 • ALBUQUERQUE, NEW MEXICO



BEFORE THE
NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

December 2, 1968

EXAMINER HEARING

IN THE MATTER OF:)
)
)

Application of Franklin,)
Aston & Fair, Inc., for)
salt water disposal,)
Roosevelt County, New)
Mexico.)

Case No. 3976

BEFORE: Daniel S. Nutter, Examiner

TRANSCRIPT OF HEARING

MR. NUTTER: Case 3976.

MR. HATCH: Case 3976, application of Franklin, Aston & Fair, Incorporated, for salt water disposal, Roosevelt County, New Mexico.

MR. EATON: Paul Eaton, representing the applicant.
I assume that the witness is treated as still being under oath?

MR. NUTTER: Yes.

(Whereupon, Applicant's Exhibits
Numbers 1, 2, and 3 were marked
for identification.)

GRANT SMITH

called as a witness by the Applicant, having been first duly sworn, was examined and testified as follows:

DIRECT EXAMINATION

BY MR. EATON:

Q Your name is Grant Smith, and your address and occupation are the same as you testified to in Case No. 3974?

A Yes, sir.

Q Your qualifications are the same?

A Yes.

Q What does Franklin, Aston & Fair seek by its application in this Case No. 3976?

A We seek permission to dispose of produced water in the Todd Lower San Andres Pool, by injecting into our Mark Federal

No. 5 Well in the Todd Andres Pool.

Q I hand you what has been marked as Applicant's Exhibit Number 1, and ask you to state what it reflects?

A This is a map showing the location of all wells within a two-mile radius of the proposed injection well; also showing the production zone in these wells. The wells circled in red are Todd Lower San Andres Wells. The wells circled in blue are in the Todd San Andres Gas Pool.

Q Does Franklin, Aston & Fair operate the property in which the injection well is located?

A Yes, sir.

Q Would you please give the history of the proposed injection well?

A This well was completed October 21, 1965, pumping 30 barrels of oil and eight barrels of water per day. Cumulative production to the 1st of January, 1968, was 6,339 barrels of oil. In December of 1967, their production was 150 barrels of oil. It has continued to decline until the well was temporarily abandoned in the spring of this year.

Q I hand you what has been marked as Applicant's Exhibit Number 2, and ask you to state what this exhibit represents.

A This is a formation density log of the proposed

injection well, showing formation tops, setting depth of the casing, the perforated intervals, and our proposed remedial work on this well to make it a salt water disposal well.

Q I hand you what has been marked as Applicant's Exhibit 3, and ask you to state what it reflects.

A This is a schematic diagram of the well showing the casing strings, eight and five eighth-inch casing set at 287 feet, with 175 sacks of cement circulated to surface, showing the top of the San Andres at 3,465 feet. It also shows five and a half-inch casing to be set at 4,315 feet TD, cemented with 300 sacks of cement. A bond log run on this well before perforation showed the top of the cement to be back at 3,642, just below the top of the San Andres.

Q Do you propose to inject the water into the Lower San Andres Formation, is that correct?

A We plan to go back into the well, deepen it to 4,330, and inject in the C zone of the Slaughter section of the San Andres.

Q Now, do you plan to deepen to 4,330 or 4,340?

A 4,340.

Q You will have an open-hole interval, then, of -- at what depth?

A We will have an open-hole interval from the depth of

the present casing at 4,315 to TD.

Q Will injection of water into this interval be detrimental to any oil production that might exist from that zone?

A No, that is the reason for deepening this well. We feel that if we should inject into the present perforated intervals due to the fractured nature of this reservoir, that there is a possibility of watering out producing wells. By deepening into the C zone, all the wells that have penetrated this zone in this area and have attempted completion in it have produced water. And this is the reason for deepening the well.

Q What kind of fluid will be injected?

A Well, either -- for disposal?

Q Yes.

A It will be salt water from the San Andres wells producing in the Todd pool.

Q What volume of salt water do you anticipate will be injected?

A We, at the present time, feel there will be from all the wells in the area 335 barrels of oil per day. We expect this to probably increase. We will have a system capable of disposing of 700 barrels a day.

Q Water per day?

A Yes. Did I say oil? I meant water.

Q Will the water be injected by gravity or under pressure?

A No, it will be under pressure.

Q Do you have the equipment necessary to inject under pressure?

A We are in the process of getting it.

Q Do you plan to inject down tubing?

A Yes, sir. We plan to set tubing, line tubing with the packer at 4,300 feet, which is below the perforations which are 4,216 to 4,268, and inject under pressure.

Q How will the tubing be lined?

A It will be plastic-lined.

Q Will the casing tubing annulus be filled with an inert fluid?

A Yes, sir.

Q Will there be a pressure gauge attached to the annulus, or will it be left open at the surface?

A Well, we will have a pressure gauge.

Q In your opinion, is the well cased and cemented in such a manner that there will be no danger to oil or gas, or any fresh water reservoirs encountered by the well?

A Yes, sir.

Q Have these three exhibits been prepared by you or under your supervision?

A Yes, sir.

Q In your opinion, will the approval of this application prevent waste and protect correlative rights?

A Yes, sir.

MR. EATON: Mr. Examiner, we offer Applicant's Exhibits 1, 2, and 3.

MR. NUTTER: Exhibits 1 through 3 will be admitted in evidence.

(Whereupon, Applicant's Exhibits Numbers 1 through 3, inclusive, were admitted in evidence.)

MR. EATON: That is all.

MR. NUTTER: Any questions of this witness?

CROSS EXAMINATION

BY MR. NUTTER:

Q Mr. Smith, all wells shown on your exhibit colored either blue or red are completed in either the A zone or the B zone of the Slaughter Formation, is that correct?

A That is correct.

Q No C zone wells here?

A No, sir.

MR. NUTTER: Any further questions of the witness?

You may be excused. Do you have anything further, Mr. Eaton?

MR. EATON: No, sir.

MR. NUTTER: Does anyone have anything they wish to offer in Case 3976? We will take the case under advisement.

I N D E X

<u>WITNESS</u>	<u>PAGE</u>
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<u>EXHIBITS</u>	<u>MARKED</u>	<u>OFFERED AND ADMITTED</u>
Applicant's Exhibits Numbers 1, 2, 3	2	7

STATE OF NEW MEXICO)
)
 COUNTY OF BERNALILLO) ss

I, SAMUEL MORTELETTE, Court Reporter in and for the County of Bernalillo, State of New Mexico, do hereby certify that the foregoing and attached Transcript of Hearing before the New Mexico Oil Conservation Commission was reported by me, and that the same is a true and correct record of the said proceedings, to the best of my knowledge, skill and ability.

Samuel Mortelette
 COURT REPORTER

I do hereby certify that the foregoing is
 a complete record of the proceedings in
 the hearing of Case No. 3976
 heard by me on 12/2 1968.
James, Examiner
 New Mexico Oil Conservation Commission

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
COMMISSION OF NEW MEXICO FOR
THE PURPOSE OF CONSIDERING:

CASE No. 3976
Order No. R-3619

APPLICATION OF FRANKLIN, ASTON &
FAIR, INC., FOR SALT WATER DISPOSAL,
ROOSEVELT COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on December 2, 1968, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 9th day of December, 1968, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

(2) That the applicant, Franklin, Aston & Fair, Inc., is the owner and operator of the Mark Federal Well No. 5, located in Unit 0 of Section 25, Township 7 South, Range 35 East, NMPM, Todd-San Andres Field, Roosevelt County, New Mexico.

(3) That the applicant proposes to utilize said well to dispose of produced salt water into the San Andres formation, with injection into the open-hole interval from approximately 4315 feet to 4340 feet.

(4) That the injection should be accomplished through 2-inch plastic-lined tubing installed in a packer set at approximately 4300 feet; that the casing-tubing annulus should be filled with an inert fluid; and that a pressure gauge should

-2-

CASE No. 3976
Order No. R-3619

be attached to the annulus at the surface in order to determine leakage in the casing, tubing, or packer.

(5) That approval of the subject application will prevent the drilling of unnecessary wells and otherwise prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

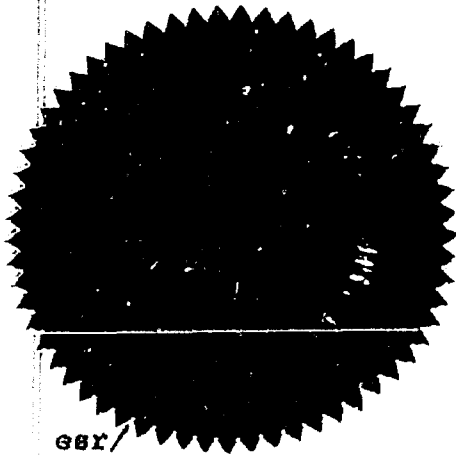
(1) That the applicant, Franklin, Aston & Fair, Inc., is hereby authorized to utilize its Mark Federal Well No. 5, located in Unit O of Section 25, Township 7 South, Range 35 East, NMPM, Todd-San Andres Field, Roosevelt County, New Mexico, to dispose of produced salt water into the San Andres formation, injection to be accomplished through 2-inch tubing installed in a packer set at approximately 4300 feet, with injection into the open-hole interval from approximately 4315 feet to 4340 feet;

PROVIDED HOWEVER, that the tubing shall be plastic-lined; that the casing-tubing annulus shall be filled with an inert fluid; and that a pressure gauge shall be attached to the annulus at the surface in order to determine leakage in the casing, tubing, or packer.

(2) That the applicant shall submit monthly reports of its disposal operations in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.

(3) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.



STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

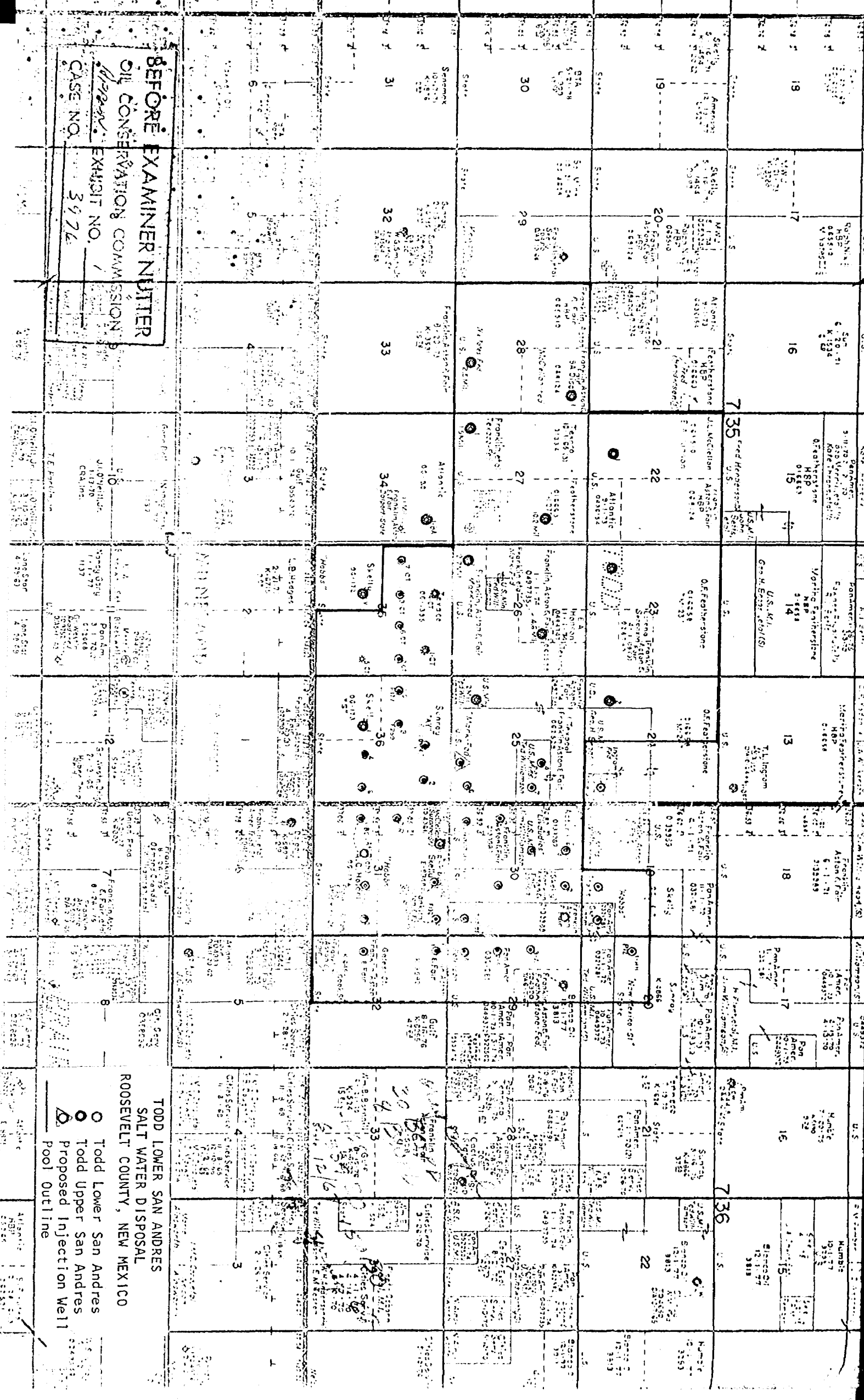
David F. Cargo
DAVID F. CARGO, Chairman

Guyton B. Hays
GUYTON B. HAYS, Member

A. L. Porter, Jr.
A. L. PORTER, Jr., Member & Secretary

- CASE 3973: Application of Taylor Pruitt for salt water disposal, Roosevelt County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the San Andres formation in the perforated interval from approximately 4088 to 4466 feet in the Humble-State Game Commission Well No. 3 located in Unit J of Section 26, Township 7 South, Range 32 East, Chaverco-San Andres Pool, Roosevelt County, New Mexico.
- CASE 3974: Application of Franklin, Aston & Fair, Inc., for salt water disposal, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Abo formation in the intervals from 6762 feet to 6778 feet and from 6810 feet to 6832 feet in its Brigham H Well No. 2 located in the NW/4 SW/4 of Section 21, Township 17 South, Range 30 East, Loco Hills-Abo Pool, Eddy County, New Mexico.
- CASE 3975: Application of Franklin, Aston & Fair, Inc. for the creation of a new oil pool and for special pool rules, Roosevelt County, New Mexico. Applicant, in the above-styled cause, seeks the creation of a new San Andres oil pool for its Bluit Federal Well No. 1 located 1980 feet from the South line and 660 feet from the East line of Section 13, Township 8 South, Range 37 East, Roosevelt County, New Mexico, and for the promulgation of temporary special rules therefor including a provision for 80-acre spacing and proration units.
- CASE 3976: Application of Franklin, Aston & Fair, Inc. for salt water disposal, Roosevelt County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the San Andres formation in the interval from 4315 feet to 4340 feet in its Mark Federal Well No. 5 located in Unit O of Section 25, Township 7 South, Range 35 East, Todd-Lower San Andres Pool, Roosevelt County, New Mexico.
- CASE 3977: Application of Texas Pacific Oil Company for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Seven Rivers formation in the perforated interval from 3168 feet to 3196 feet in its Farnsworth "4" Well No. 7 located in Unit F of Section 4, Township 26 South, Range 37 East, Langlie-Mattix Pool, Lea County, New Mexico.

BEFORE EXAMINER NOTAR
 OIL CONSERVATION COMMISSION
 EXHIBIT NO. 1
 CASE NO. 3476



TODD LOWER SAN ANDRES
 SALT WATER DISPOSAL
 ROOSEVELT COUNTY, NEW MEXICO
 Todd Lower San Andres
 Todd Upper San Andres
 Proposed Injection Well
 Pool Outline

FRANKLIN, ASTON & FAIR, INC.
MARK FEDERAL NO. 5
330' FSL & 1650' FEL
SECTION 25-7S-35E
TODD LOWER SAN ANDRES POOL

All Depths Measured from KB 4163'

Surface Elev. 4154'

*initial design
335 BWP
under pressure*

Hole Size 12 1/4"

8 5/8" casing set at 287' KB
with 175 sacks cement circulated
to surface.

initial flow

BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
APPROX EXHIBIT NO. 3
CASE NO. 3476

San Andres 3465'

Top of Cement 3642'

Hole Size 7 7/8"

*into "C" zone
by Slaughter*

San Andres (Slaughter)
4100'

*open hole
4315 to new TD
(B) 4 1/2"*

1st

Anhy. 4198-4210'
Perfs 4216-4268'

B

2nd
2" Lined Tubing;
Packer set at 4300'. C

Anhy. 4270-4286'

Injection Interval
4315-4340' Open Hole
335 BPD Formation Water.

5 1/2" casing set at 4315' KB TD
with 300 sacks cement. Top of
cement is at 3642'. by *Bond log*

Proposed TD 4340'.

CLARENCE E. HINKLE
W. E. BONDURANT, JR.
S. B. CHRISTY IV
LEWIS C. COX, JR.
PAUL W. EATON, JR.
CONRAD E. COFFIELD
HAROLD L. HENSLEY, JR.
MICHAEL R. WALLER

STUART D. SHANOR
C. D. MARTIN
PAUL J. KELLY, JR.

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ROSWELL, NEW MEXICO 88201

November 4, 1968

MIDLAND, TEXAS OFFICE
521 MIDLAND TOWER
(915) MU 3-4891
OF COUNSEL: HIRSH M. DOW

TELEPHONE (505) 622-6510
POST OFFICE BOX 10

Case 3776

New Mexico Oil Conservation Commission
P.O. Box 2088
Santa Fe, New Mexico

Re: Franklin, Aston & Fair, Inc.
Salt Water Disposal Application
Todd-Lower San Andres Pool
Roosevelt County, New Mexico

Gentlemen:

On October 30, 1968 we mailed you the above application without the plat, log and diagrammatic sketch. Enclosed herewith are these items which should be filed with the application.

Yours very truly,

HINKLE, BONDURANT & CHRISTY

Paul W. Eaton, Jr.
Paul W. Eaton, Jr.

PWE/jw

cc: Franklin, Aston & Fair, Inc.

DOCKET MAILED

Date 11-21-68

CLARENCE E. HINKLE
W. E. BONDURANT, JR.
S. B. CHRISTY IV
LEWIS C. COX, JR.
PAUL W. EATON, JR.
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(915) MU 3-4601
OF COUNSEL: HIRSH M. DOW

October 30, 1968

TELEPHONE (505) 622-6510
POST OFFICE BOX 10

Case 3976

New Mexico Oil Conservation
Commission
P. O. Box 2088
Santa Fe, New Mexico

Gentlemen:

We enclose in triplicate Application of Franklin, Aston & Fair, Inc. for salt water disposal in Roosevelt County, Todd-Lower San Andres Pool. We would like an examiner's hearing as promptly as possible.

The Application states that the plat, log and diagrammatic sketch are enclosed. We have not quite completed the plat and sketch, and if it is satisfactory with you, we will mail them to you next week.

Yours very truly,

HINKLE, BONDURANT & CHRISTY

Paul W. Eaton, Jr.
Paul W. Eaton, Jr. MAIN OFFICE 000

PWE/jw

'68 OCT 31 AM 8 16

cc: Franklin, Aston & Fair, Inc.

'60 OCT 31 AM 8 30

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

APPLICATION OF FRANKLIN, ASTON & FAIR,)
INC. FOR SALT WATER DISPOSAL, ROOSEVELT)
COUNTY, NEW MEXICO.)

Case No. 3976

Franklin, Aston & Fair, Inc. herewith makes application for authority to dispose of salt water by injection into underground formation and states:

1. Applicant is owner and operator of the Franklin, Aston & Fair Mark Federal No. 5 well located in the SW $\frac{1}{4}$ SE $\frac{1}{4}$ Section 25, Township 7 South, Range 35 East, N.M.P.M., Todd-Lower San Andres Pool, Roosevelt County, New Mexico.
2. Applicant proposes to deepen and utilize said well to dispose of produced salt water into the C section of the Slaughter zone of the San Andres formation in the interval from 4,315 feet to 4,340 feet.
3. Applicant anticipates injecting approximately 330 barrels of salt water per day produced from applicant's leases and other leases in the area.
4. The plat, log and diagrammatic sketch required by Rule 701 B are filed herewith.
5. Applicant desires a hearing before an examiner as promptly as possible.

HINKLE, BONDURANT & CHRISTY

By

Paul W. Eaton, Jr.
P. O. Box 10
Roswell, New Mexico
Attorneys for Franklin,
Aston & Fair, Inc.

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
COMMISSION OF NEW MEXICO FOR
THE PURPOSE OF CONSIDERING:

CASE No. 3976

Order No. R- 2619

APPLICATION OF FRANKLIN, ASTON &
FAIR, INC., FOR SALT WATER DISPOSAL,
ROOSEVELT COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on December 2, 1968,
at Santa Fe, New Mexico, before Examiner Daniel S. Nutter

NOW, on this _____ day of December, 1968, the Commission, a
quorum being present, having considered the testimony, the record,
and the recommendations of the Examiner, and being fully advised
in the premises,

FINDS:

(1) That due public notice having been given as required by
law, the Commission has jurisdiction of this cause and the subject
matter thereof.

(2) That the applicant, Franklin, Aston & Fair, Inc.,
is the owner and operator of the Mark Federal Well No. 5
located in Unit 0 of Section 25, Township 7 South, Range
35 East, NMPM, Todd-San Andres Field, Todd-San Andres Pool, Roosevelt
County, New Mexico.

(3) That the applicant proposes to utilize said well to
dispose of produced salt water into the San Andres
formation, with injection into the Open-hole interval
from approximately 4315 feet to 4340 feet.

(4) That the injection should be accomplished through
2-inch plastic-lined tubing installed in a packer set at

approximately 4300 feet; that the casing-tubing annulus should be filled with an inert fluid; and that a pressure gauge should be attached to the annulus ~~or the annulus left open~~ at the surface in order to determine leakage in the casing, tubing, or packer.

(5) That approval of the subject application will prevent the drilling of unnecessary wells and otherwise prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That the applicant, Franklin, Aston & Fair, Inc. is hereby authorized to utilize its Mark Federal Well No. 5 located in Unit 0 of Section 25, Township 7 South, Range 35 East, NMPM, Todd Subdivision Field, ~~Todd Lower San Andres Pool~~, Roosevelt County, New Mexico, to dispose of produced salt water into the San Andres formation, injection to be accomplished through 2-inch tubing installed in a packer set at approximately 4300 feet, with injection into the Open-hole interval from approximately 4315 feet to 4340 feet;

PROVIDED HOWEVER, that the tubing shall be plastic-lined; that the casing-tubing annulus shall be filled with an inert fluid; and that a pressure gauge shall be attached to the annulus ~~or the annulus left open~~ at the surface in order to determine leakage in the casing, tubing, or packer.

(2) That the applicant shall submit monthly reports of its disposal operations in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.

(3) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.