

COASTAL STATES GAS PRODUCING COMPANY
NORTH TEXAS DIVISION
614 CITIZENS NATIONAL BANK BUILDING
ABILENE, TEXAS

Case 3366

January 10, 1966

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

Re: Flying "M" San Andres Field,
Lea County, New Mexico
Sec 16, 17, 20, 21, 28, 29,
of T-9S, R-33E.

Gentlemen:

Coastal States Gas Producing Company requests permission to initiate a pilot pressure maintenance project in the Flying "M" San Andres Field of Lea County, New Mexico. This proposed pilot project will consist of three injection wells at the present time. We also request that provisions be made so that all additional injection wells may be approved administratively.

The three injection wells are described as follows:

Southern Minerals State 15 No. 1,
NW/4 of SW/4, Sec 15;

Southern Minerals State 21 #4,
SE/4 of NE/4, Sec 21;

Gonsales Federal 33 #4;
NW/4 of NW/4, Sec 33;

All in Township 9, South; Range 33 East.

The Southern Minerals State 15 No. 1 is presently being used as a salt water disposal well. Permission to inject produced salt water into this well was obtained by Commission Order No. R-2924 in June, 1965. This water is being injected into the aquifer below the water-oil contact in the Slaughter Zone of the San Andres. To date, 41,000 barrels have been injected at approximately 900 psi at 225 barrels oil per day. No beneficial effects have been detected as a result of this injection program.

NOT MAILED

file

COASTAL STATES GAS PRODUCING COMPANY

We are requesting permission to inject produced San Andres water into two additional wells, in order to further evaluate the possibility of maintaining the reservoir pressure by bottom water injection (injecting below the water-oil contact).

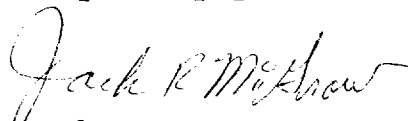
The Southern Minerals State 21 No. 4 is a replacement well for the Southern Minerals State 21 No. 3, which was drilled in August, 1964, and subsequently lost due to hole problems. Attached is a plat showing the exact location of the proposed replacement well. Also attached is a diagrammatic sketch showing how this well is to be equipped for injection, utilizing 2- $\frac{1}{2}$ " plastic coated tubing for casing.

The Gonsales Federal 33 No. 4 was drilled to a total depth of 4534' in July, 1965. The Slaughter Zone was tested and found to be predominantly (98%) water productive. It is presently temporarily abandoned. Attached is a diagrammatic sketch showing the proposed method of converting this well to injection status.

Coastal States is not requesting any allowable change or transfer of allowables at this time. As soon as sufficient response has been demonstrated, efforts to unitize the entire field will be resumed.

The State Engineer, as well as all offset operators, are being notified by copies of this application.

Very truly yours,



Jack R. McGraw
Division Engineer

JRMCG/ec
Enc.

CC: NMOCC
Hobbs, New Mexico

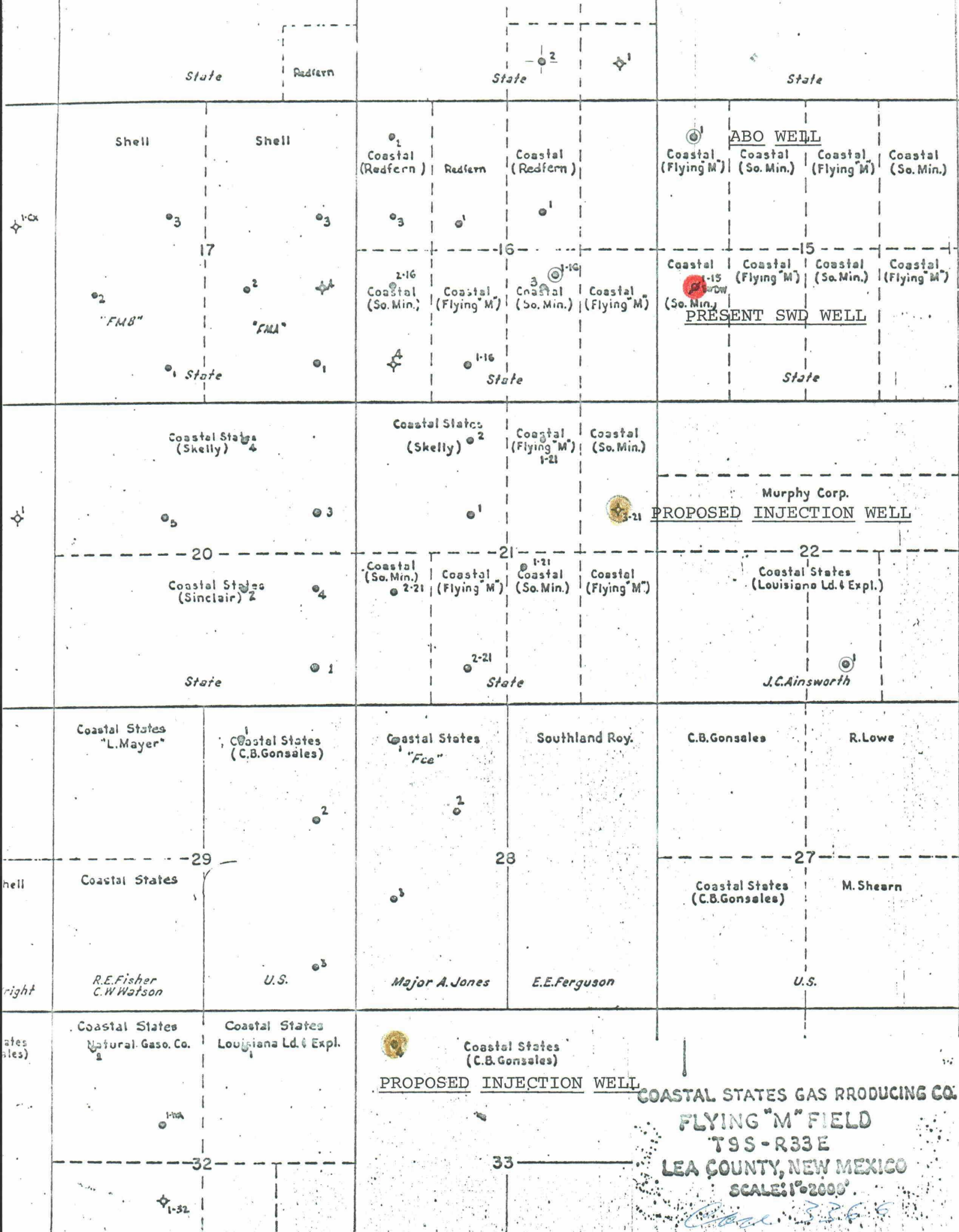
Shell Oil Company
Redfern & Herd, Inc.

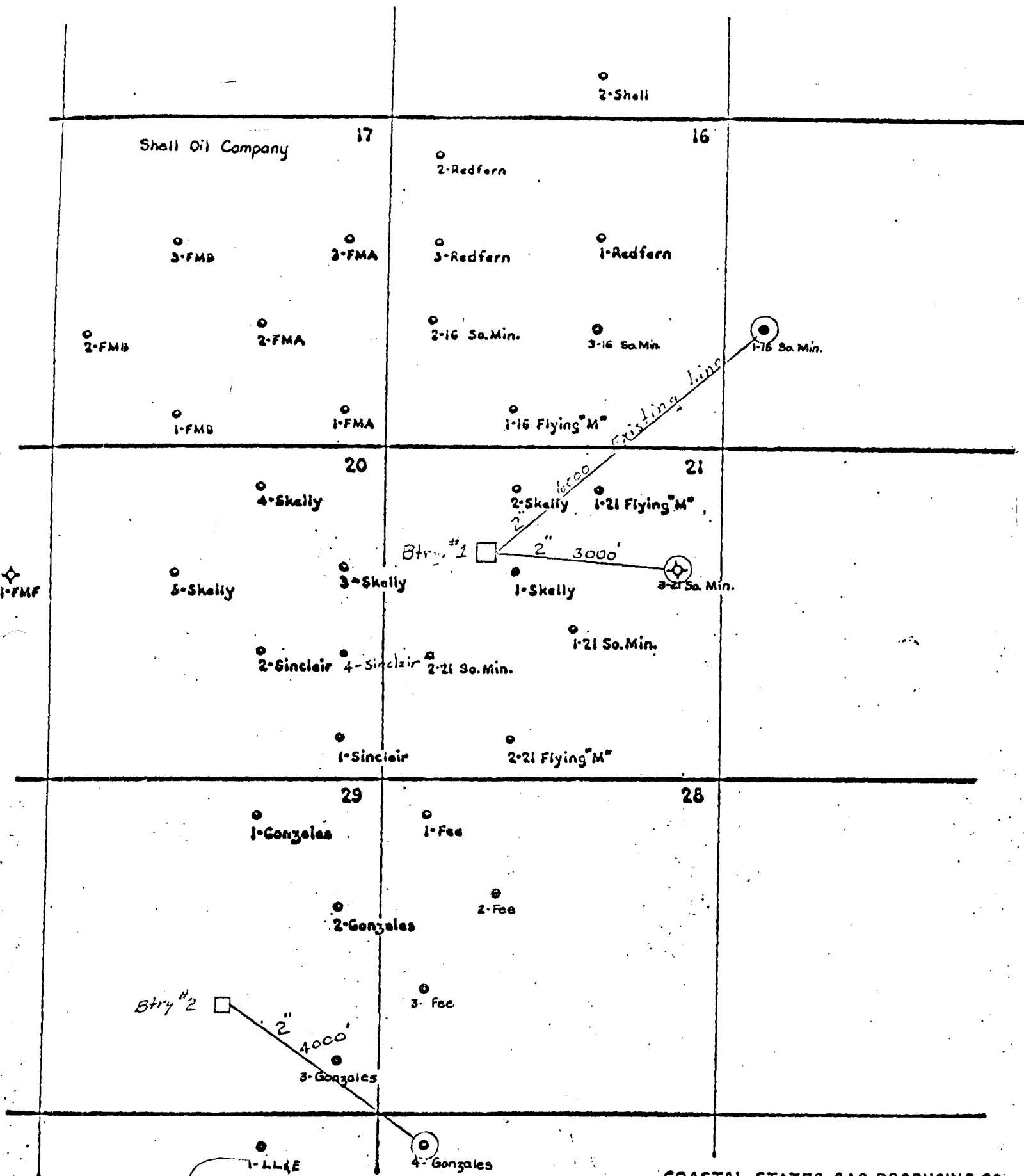
Mr. Frank Irby,
State Engineer,
Santa Fe, New Mexico

2000-03-06

PERTINENT DATA

1. Injection will be into the Slaughter Zone of the San Andres Formation at approximately 4450'.
2. Water to be injected will be produced water from the Flying "M" San Andres Field.
3. Expected injection rate is 500 barrels water per day per well.
4. The expected injection pressure is 1700 psi.



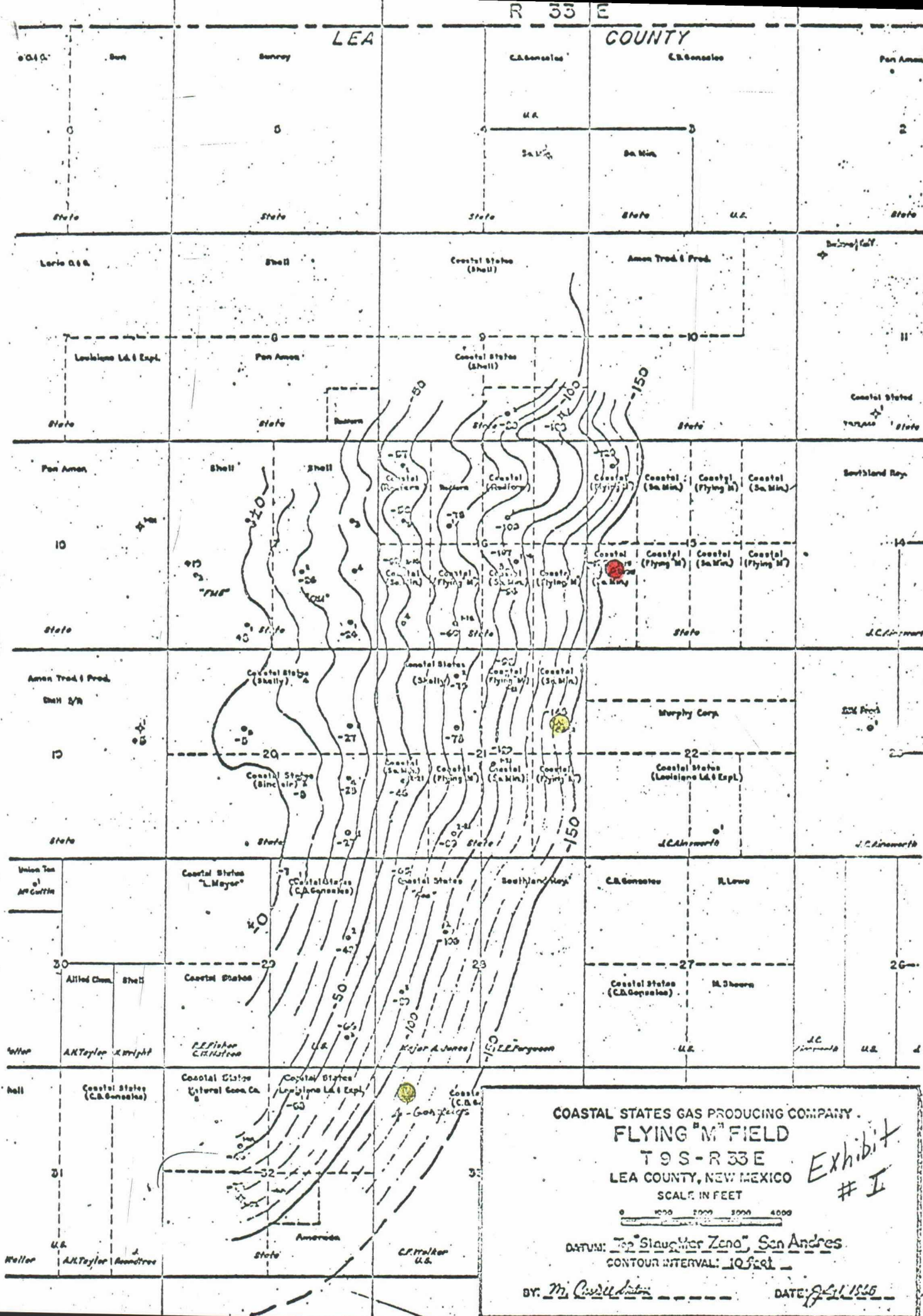


LEGEND

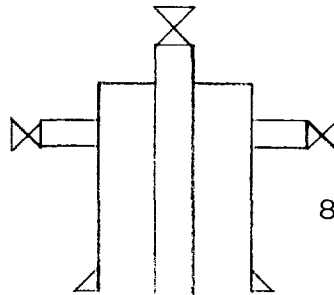
- 1- W.A. State
- PRODUCING WELLS

COASTAL STATES GAS PRODUCING CO.
FLYING "M" FIELD
T9S-R33E
LEA COUNTY, NEW MEXICO
SCALE: 1"=2000'

Exhibit #8



COASTAL STATES GAS PRODUCING COMPANY
SOUTHERN MINERALS STATE 21 #4



8-5/8" set @ 250'

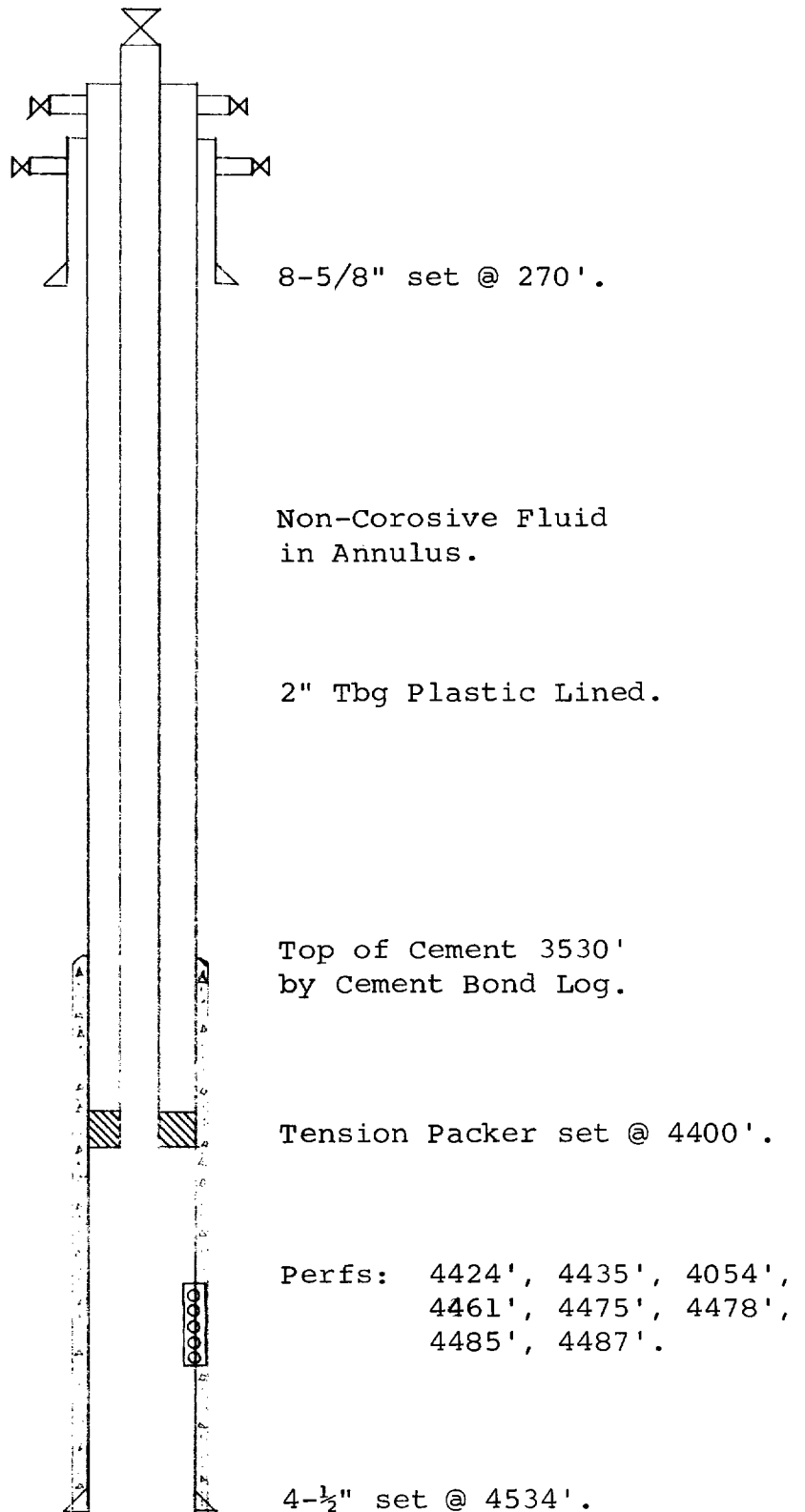
2-1/2" Plastic Coated Csg

Expected Top of Cement 3500'

Perforate
Slaughter Zone of San Andres

2-1/2" Plastic Coated Csg
set @ approximately 4600'.

COASTAL STATES GAS PRODUCING COMPANY
GONSALES FEDERAL #33-4



MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form O-107
Supersedes O-128
Effective 1-1-61

All distances must be from the outer boundary of the well.

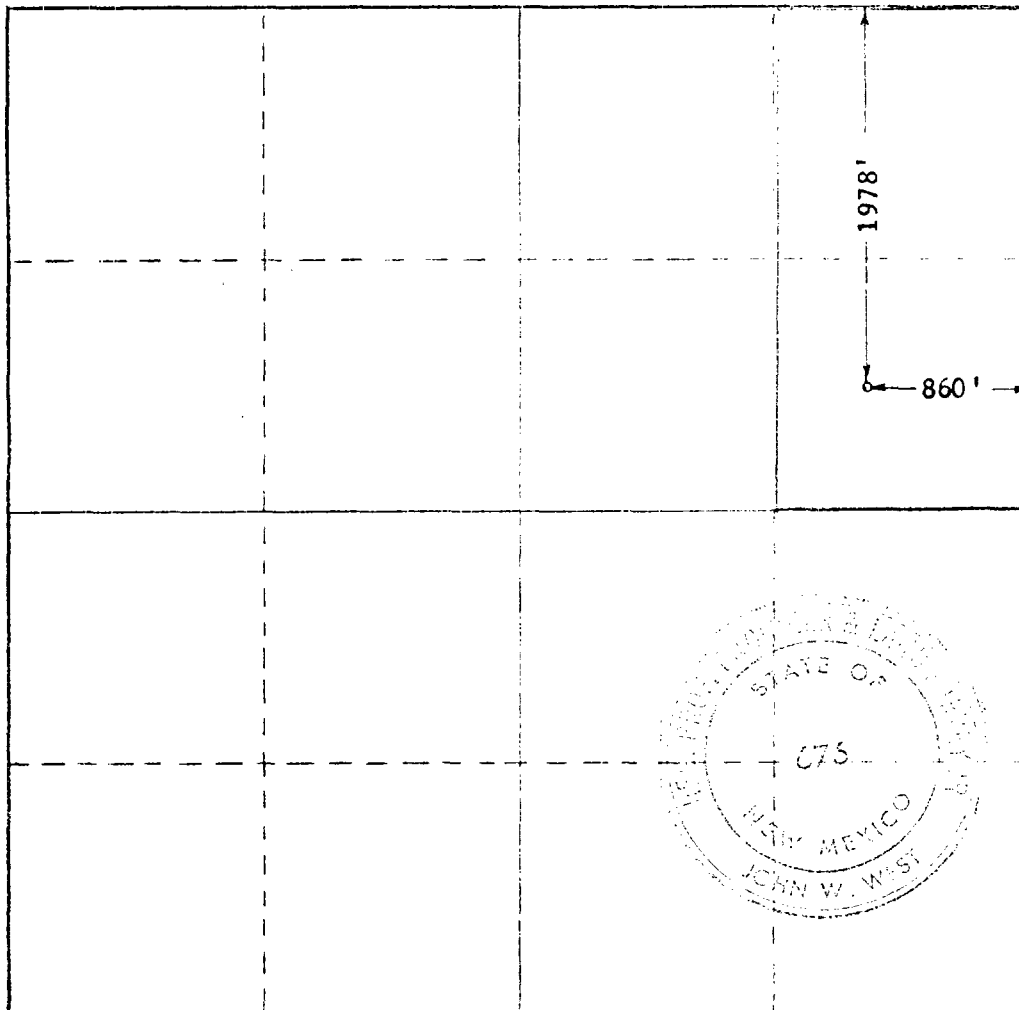
Operator COASTAL STATES GAS PRODUCING CO.		Lease SOUTHERN MINERALS		Well No. 4
Unit Letter H	Section 21	Township 9 SOUTH	Range 33 EAST	LEA
Actual Footage Location of Well: 1978 feet from the NORTH line and 860 1000 EAST line.				
Ground Level Elev. 4355	Producing Formation San Andres	Foot Flying m	Estimated Acreage 80 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or ballpoint marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

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

H. L. G. Smith

Agent
Coastal States Gas Producing Company

December 28, 1965

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

12-18-65

Registered Professional Engineer and/or Land Surveyor

John W. West

Certificate No. **N.M. P.E. & L.S. No. 676**

0 330 660 990 1320 1650 1980 2310 2640 2970 3300 3630 3960 4290 4620 4950 5280 5610 5940 6270 6600 6930 7260 7590 7920 8250 8580 8910 9240 9570 9900

1000 3000

State of New Mexico
Oil Conservation Commission



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

February 3, 1966

Re: Case No. 3365
Order No. 3366
Applicant: R-3032 & R-3033

A. L. PORTER, JR.

Other _____

COASTAL STATES GAS PRODUCING COMPANY

NORTH TEXAS DIVISION

614 CITIZENS NATIONAL BANK BUILDING
ABILENE, TEXAS

HOBBS OFFICE O. C. C.

MAY 12 2 40 PM '66

MAIL OFFICE 000

MAY 16 AM 8 20

May 10, 1966

*Attention
Santa Fe
Office*

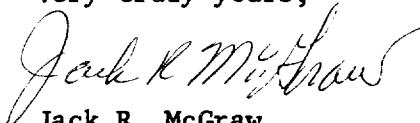
New Mexico Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico

Re: Coastal States'
Gonsales Federal 33 #4,
Unit D, Sec 33, T-9S, R33E,
Lea County, New Mexico.

Gentlemen:

Attached is Form C-108, prepared in order to convert the subject well to water injection. Permission to convert this well to water injection was obtained by Order No. R-3033 from the New Mexico Oil Conservation in January, 1966; however, Form C-108 or Federal Form 9-331 (Sundry Notices and Reports on Wells) was not submitted at that time. They are herewith attached, so that this well can be classified as a water injection well. If any further information is needed, please advise.

Very truly yours,



Jack R. McGraw
Division Engineer

JRMCG/ec

Enc.

CC: U. S. Department of the Interior
Geological Survey
P. O. Box 1157
Hobbs, New Mexico

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

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

OPERATOR Coastal States Gas Producing Company		ADDRESS P. O. Box 2488, 24th St., El Paso, Texas	
LEASE NAME Gonsales Federal	WELL NO. 4	FIELD Flying "M" (San Andres)	COUNTY Lea
LOCATION UNIT LETTER D ; WELL IS LOCATED 660 FEET FROM THE North LINE AND 660 FEET FROM THE West LINE, SECTION 33 TOWNSHIP 9-S RANGE 33-E NMPM.			

CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING	8-5/8"	270'	200	Circ	Observation
INTERMEDIATE					
LONG STRING	4-1/2"	4534'	250	3530'	Cement Bond Log
TUBING	2-3/8" (EUE) 4400'	NAME, MODEL AND DEPTH OF TUBING PACKER Halliburton R-3 Tension			

NAME OF PROPOSED INJECTION FORMATION San Andres		TOP OF FORMATION 4410'	BOTTOM OF FORMATION 4530'
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? Tubing		PERFORATIONS OR OPEN HOLES? Perfs	PROPOSED INTERVAL(S) OF INJECTION 4424-35', 4455-62', 4476-79', 4486-88'
IS THIS A NEW WELL DRILLED FOR DISPOSAL? No	IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? For oil; however, produced water instead.		HAS WELL EVER BEEN PERFORATED IN ANY ZONE OTHER THAN THE PROPOSED INJECTION ZONE? No

LIST ALL SUCH PERFORATED INTERVALS AND SACKS OF CEMENT USED TO SEAL OFF OR SQUEEZE EACH

None

DEPTH OF BOTTOM OF DEEPEST FRESH WATER ZONE IN THIS AREA 150'		DEPTH OF BOTTOM OF NEXT HIGHER OIL OR GAS ZONE IN THIS AREA 4400'		DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA 8691'	
ANTICIPATED DAILY INJECTION VOLUME (BBLs.)	MINIMUM 250	MAXIMUM 800	OPEN OR CLOSED TYPE SYSTEM Closed	IS INJECTION TO BE BY GRAVITY OR PRESSURE? Pressure	APPROX. PRESSURE (PSI) 1900 psi
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 Produced Water	NATURAL WATER IN DISPOSAL ZONE Same	ARE WATER ANALYSES ATTACHED? Yes

NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND)

John R. McGuffin, P. O. Box 66, Caprock, New Mexico

LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL

Southland Royalties, 1603 First National Bank Building, Fort Worth, Texas

HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING?	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)	PLAN 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.

(Signature)

Division Engineer
(Title)May 10, 1966
(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.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPLICATE*
(Other instructions on reverse side)Form approved.
Budget Bureau No. 42-R1424.
5. LEASE DESIGNATION AND SERIAL NO.

NM-058102

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Water Injection Well	7. UNIT AGREEMENT NAME
2. NAME OF OPERATOR Coastal States Gas Producing Company	8. FARM OR LEASE NAME Gonsales Federal
3. ADDRESS OF OPERATOR P. O. Box 2498, Abilene, Texas	9. WELL NO. 4
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 659.5' FNL & 662' FWL, Sec 33, T9S, R33E, Lea County, New Mexico	10. FIELD AND POOL, OR WILDCAT Flying "M" (SA)
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, OR, etc.) 4284.3' GL
	12. COUNTY OR PARISH Lea
	13. STATE New Mexico

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

Conversion to Water Injection

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

July, 1965 - Well was drilled to 4534'. The Slaughter Zone of the San Andres was tested through perforations @ 4424-35', 4455-62', 4476-79', 4486-88' and found to be predominantly (98%) water productive. Well was temporarily abandoned.

April, 1966 - Plastic coated tubing with tension packer was run and set at 4400'. A corrosion inhibited fluid was placed in the annulus and the well was equipped for water injection.

18. I hereby certify that the foregoing is true and correct

SIGNED

Jack R. McGraw

TITLE

Division Engineer

DATE

May 10, 1966

(This space for Federal or State office use)

APPROVED BY

TITLE

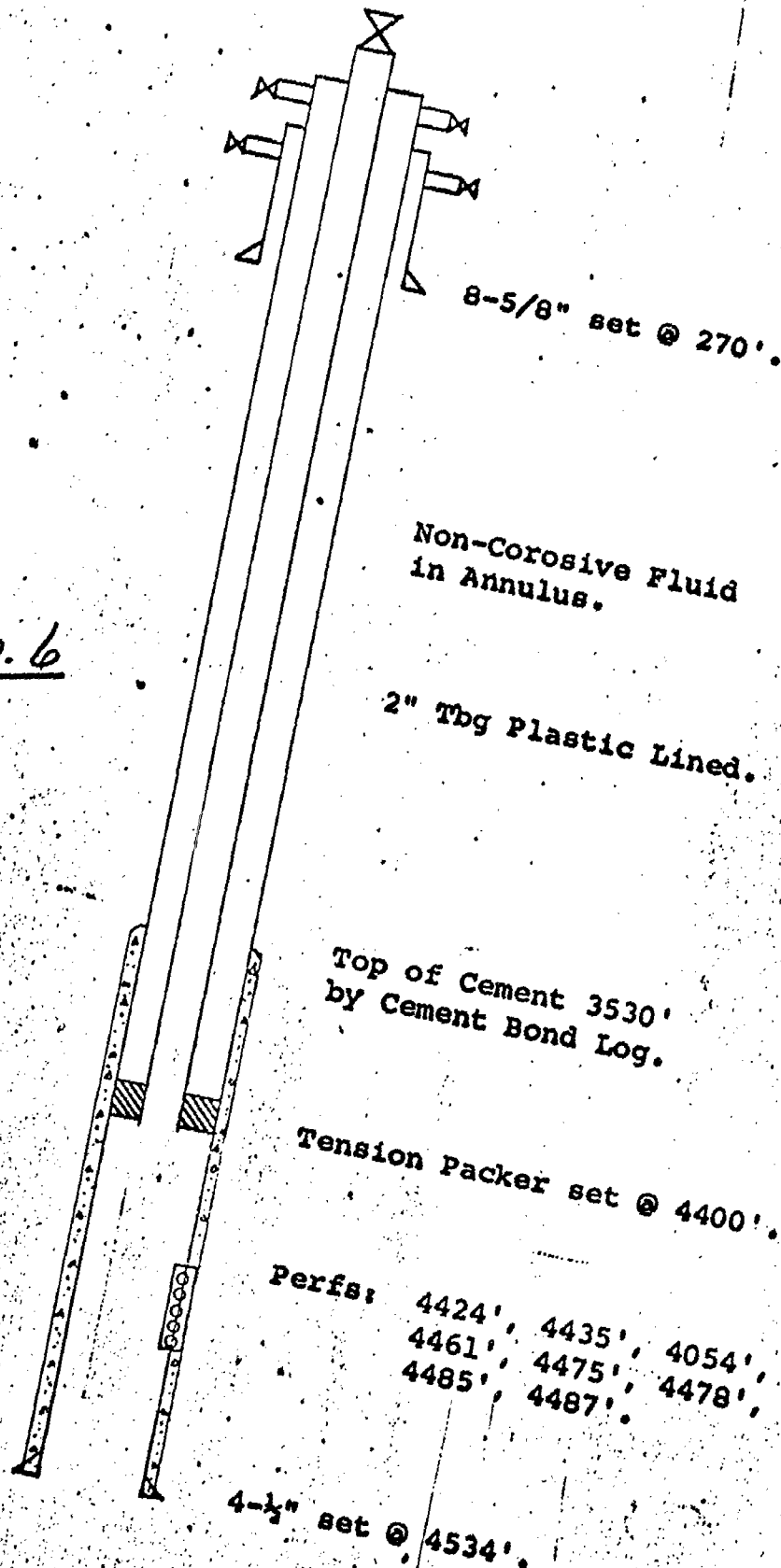
DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

COASTAL STATES GAS PRODUCING COMPANY
GONSALES FEDERAL #33-4

Exhibit No. 6



COASTAL STATES GAS PRODUCING COMPANY
NORTH TEXAS DIVISION
614 CITIZENS NATIONAL BANK BUILDING
ABILENE, TEXAS

105.000

12 PM 1122

May 10, 1966

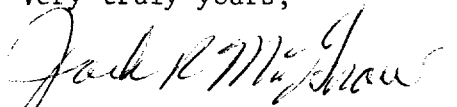
New Mexico Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico

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Very truly yours,



Jack R. McGraw
Division Engineer

JRMCG/ec

Enc.

CC: U. S. Department of the Interior
Geological Survey
P. O. Box 1157
Hobbs, New Mexico

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

CLASS OF SERVICE

This is a fast message unless its deferred character is indicated by the proper symbol.

WESTERN UNION

TELEGRAM (29).

1201 (4-60)

W. P. MARSHALL, PRESIDENT

SYMBOLS

DL=Day Letter

NL=Night Letter

LT=International Letter Telegram

The filing time shown in the date line on domestic telegrams is LOCAL TIME at point of origin. The receipt is LOCAL TIME at point of destination

MAIN OFFICE OCC

LA125 DC240

1966 JAN 21 PM 3 53

B MDA132 RX PD=WUX MIDLAND TEX 21 427P CST=

OIL CONSERVATION COMM=

STATE LAND OFFICE BLDG SANTA FE NMEX=

SHELL OIL COMPANY, AS AN OPERATOR IN THE FLYING "MM" SAN ANDRES FIELD, HAS NO OBJECTION TO COASTAL STATES GAS COMPANY'S PROPOSAL TO INJECT WATER INTO THE SAN ANDREWS IN THREE WELLS SOUTHERN MINERALS STATE 15 NO. 1, SOUTHERN MINERALS STATE 21 NO. 4, AND GONZALES FEDERAL 33 NO. 4 AS SET FORTH IN THEIR LETTER OF JANUARY 10, 1966 TO NMOCC REQUESTING A HEARING=

SHELL OIL COMPANY J E R SHEELER WESTERN DIVISION PRODUCTION MANAGER.=:

THE COMPANY WILL APPRECIATE SUGGESTIONS FROM ITS PATRONS

Admin Approved
Add'l review

Appl of Coastal States
gas Producing Company
pilot press maintenance proj
7 lying "M" Sea Andrus
3 inj Sea Andrus
NW NW 33 100' x 100'
NW SW 15'
SE NE 21' to be sold
95, 33E