

COASTAL STATES GAS PRODUCING COMPANY

NORTH TEXAS DIVISION
WILCO BUILDING
MIDLAND, TEXAS
79701

December 9, 1966

66 DEC 12 AM 8 16

PMA-23

New Mex 27

New Mexico Oil Conservation Commission
P. O. Box 871
Santa Fe, New Mexico

Attention: Mr. A. L. Porter, Jr.,
Secretary-Director

Gentlemen:

As provided for in the New Mexico Oil Conservation Commission's Order No. R-3033, Coastal States Gas Producing Company hereby requests that the Secretary-Director furnish administrative approval for the expansion of Coastal States' Flying "M" Pressure Maintenance Project by the conversion of one additional well to water injection.

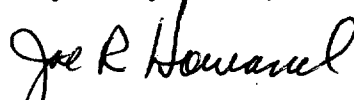
The proposed injection well is Coastal States' FM "B" Well No. 3, Unit F, Section 17, Township 9-S, Range 33-E, Lea County, New Mexico.

The following exhibits concerning the proposed injection well are attached:


1. Plat showing the location of the proposed injection well and other wells in the vicinity, with producing horizons noted.
2. Gamma Ray-Sonic Log of the proposed injection well.
3. Diagrammatic Sketch of the proposed injection well.
4. List of other pertinent information.

A copy of this application, complete with all attachments, has been sent to the State Engineer Office, and to Pan American Petroleum Corporation and Louisiana Land and Exploration Company, the offset operators.

Very truly yours,



Joe R. Howard
Division Production Superintendent

 JRH:BPMcC:lb
Attachments


cc: E. Forbes Gordon
W. D. Elliott

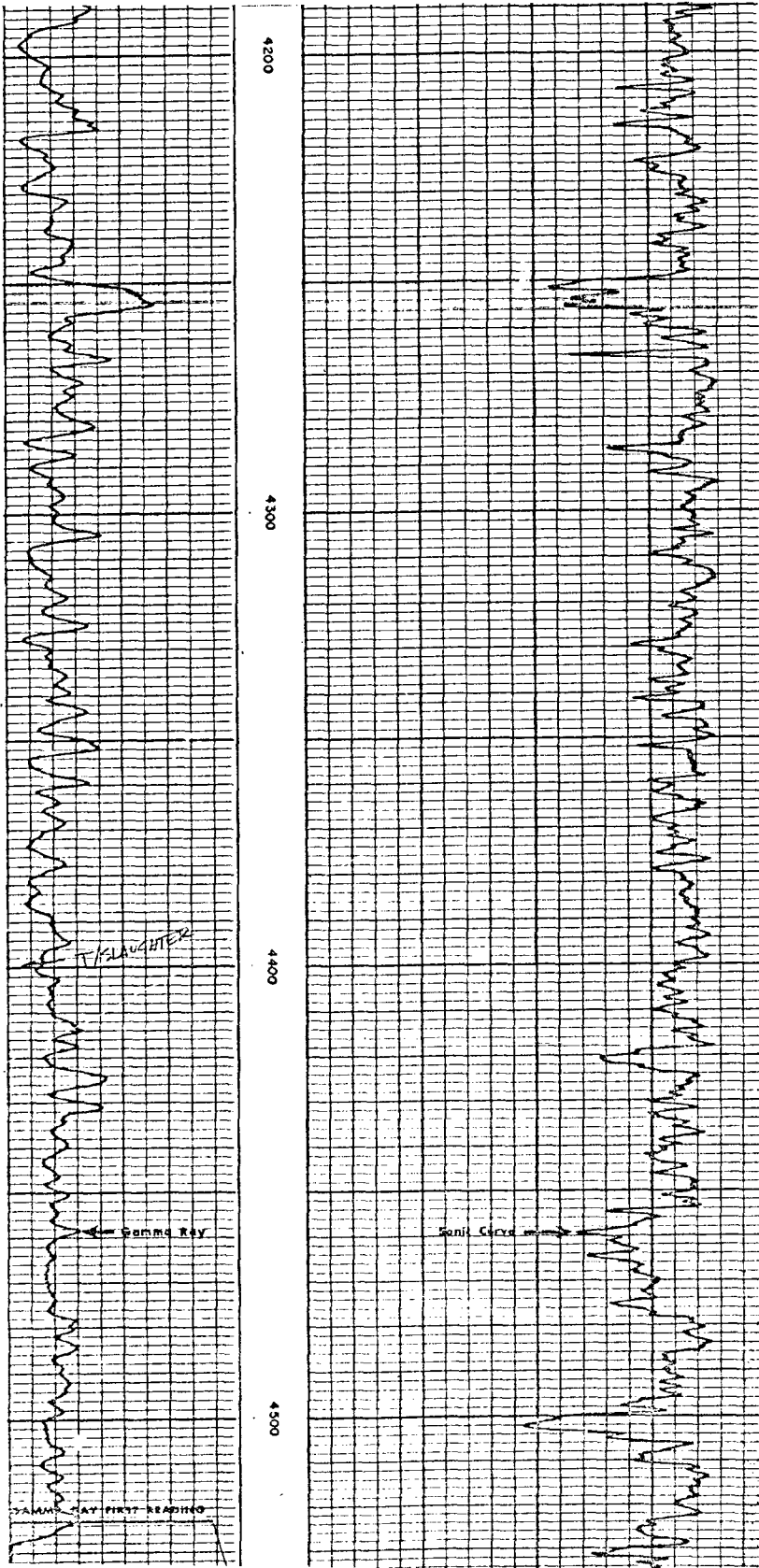
Pan American Petr. Corp.
P. O. Box 1540
Midland, Texas

Louisiana Land & Expl. Co.
V&J Tower Building
P. O. Box 1696
Midland, Texas

Mr. Frank Irby
State Engineer
P. O. Box 1079
Santa Fe, New Mexico

<p>1</p> <p>State</p>	<p>2</p> <p>State</p>	<p>3</p> <p>State</p>	<p>4</p> <p>State</p>	<p>5</p> <p>State</p>	<p>6</p> <p>State</p>	<p>7</p> <p>State</p>	<p>8</p> <p>State</p>	<p>9</p> <p>State</p>	<p>10</p> <p>State</p>	<p>11</p> <p>State</p>	<p>12</p> <p>State</p>
<p>13</p> <p>State</p>	<p>14</p> <p>State</p>	<p>15</p> <p>State</p>	<p>16</p> <p>State</p>	<p>17</p> <p>State</p>	<p>18</p> <p>State</p>	<p>19</p> <p>State</p>	<p>20</p> <p>State</p>	<p>21</p> <p>State</p>	<p>22</p> <p>State</p>	<p>23</p> <p>State</p>	<p>24</p> <p>State</p>
<p>25</p> <p>State</p>	<p>26</p> <p>State</p>	<p>27</p> <p>State</p>	<p>28</p> <p>State</p>	<p>29</p> <p>State</p>	<p>30</p> <p>State</p>	<p>31</p> <p>State</p>	<p>32</p> <p>State</p>	<p>33</p> <p>State</p>	<p>34</p> <p>State</p>	<p>35</p> <p>State</p>	<p>36</p> <p>State</p>
<p>37</p> <p>State</p>	<p>38</p> <p>State</p>	<p>39</p> <p>State</p>	<p>40</p> <p>State</p>	<p>41</p> <p>State</p>	<p>42</p> <p>State</p>	<p>43</p> <p>State</p>	<p>44</p> <p>State</p>	<p>45</p> <p>State</p>	<p>46</p> <p>State</p>	<p>47</p> <p>State</p>	<p>48</p> <p>State</p>
<p>49</p> <p>State</p>	<p>50</p> <p>State</p>	<p>51</p> <p>State</p>	<p>52</p> <p>State</p>	<p>53</p> <p>State</p>	<p>54</p> <p>State</p>	<p>55</p> <p>State</p>	<p>56</p> <p>State</p>	<p>57</p> <p>State</p>	<p>58</p> <p>State</p>	<p>59</p> <p>State</p>	<p>60</p> <p>State</p>

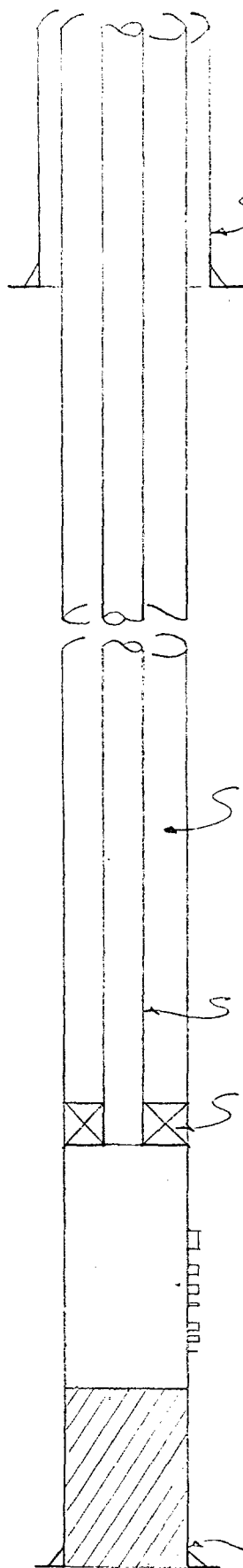
		COMPANY SHELL OIL COMPANY	
WELL STATE "FMB" # 3		FIELD FLYING "M" SAN ANDRES	
COUNTY LEA STATE NEW MEXICO		LOCATION 1980' FROM N/L 1980' FROM W/L	
Sec. 17 Twp. 9S Rge. 33E		Other Services: LL, MLL, MOP	
Permanent Datum: GL Elev. 4384		Elev.: K.B. 4393 D.F. 4393 G.L. 4384	
Log Measured From DF 9 Ft. Above Perm. Datum		Drilling Measured From DF	
Date 12-12/13-64			
Run No. ONE			
Depth—Driller 4550			
Depth—Logger 4551			
Btm. Log Interval 4543			
Top Log Interval 0			
Casing—Driller 8 5/8 @ 400			
Casing—Logger -			
Bit Size 7 7/8"			
Type Fluid in Hole SALT GEL, STARCH			
Dens. Visc. 10.3 40			
pH Fluid Loss 6 P. 6 ml			
Source of Sample CIRCULATED			
R _m @ Meas. Temp. .08 @ 69°F			
R _m @ Meas. Temp. .644 @ 69°F			
R _m @ Meas. Temp. .125 @ 69°F			
Source: R _m R _m M M			
R _m @ BHT .062 @ 92°F			
Time Since Circ. 3 HOURS			
Max. Rec. Temp. 97 °F			
Equip. Location 3722 J HOBBS			
Recorded By WILSON-LEFLER			
Witnessed By ROTH			



FM B" #3 - WATER INJ. WELL

DOWN HOLE SKETCH

ELEVATIONS: GL. 4384'
DF. 4393'



8 5/8" 24# J-55 CSG SET AT 400'
CMTD. W/ 250 SX CL. C" TO SURFACE ✓

ANNULUS TO BE LOADED W/ INHIBITED WATER ✓

2 3/8" EUE J-55 INT. PC. TBG SET AT 4385' ✓

2 3/8" x 4 1/2" TENSION PKR AT 4385' ✓

PERFS: (1 JSPF) 4418'-24', 4430'-34', 4438'-42',
4446'-47', 4454'-57', 4459'-61', & 4465'

PSTD: 4482'

TD: 4550'

4 1/2" 9.5# J-55 CSG SET AT 4549'
CMTD. W/ 200 SX CL. C" EST. TOC. 3390' ✓

FM "B" Well No. 3 - Water Injection Well

Pertinent Information

A. Formation into which injection will be made:

Slaughter zone of the San Andres, at 4418' to 4465'

B. Kind of fluid to be injected:

Produced brine water and fresh water

C. Anticipated volumes to be injected:

250 - 1000 Bbls/Day

D. Source of injected fluid:

Produced brine water from the San Andres formation,
approximately 50%, and fresh water produced from the
Santa Rosa formation, approximately 50%.

RESULT OF WATER ANALYSES

Waylan C. Martin, M. A.

Cardinal



ANALYTICAL SERVICE LABORATORY

Company Coastal States Gas Producing Co.

County Lea

Lease Sinclair State

Address P. O. Box 235
Midland, Texas

Field Flying "M"

Well No. 2

Attention Joe Howard
Karl OdenFormation ~~San Andres~~ SANTA ROSADepth 900'
~~4,000~~ (approx)Recent Treatments 250 gallons 15% Regular
AcidDate
Sampled 9/2/66Sample
Source Swab

WATER ANALYSIS

(Reported as mg per Liter)

Specific Gravity 1.025 @ 74°

pH 6.5

Chloride 37,500

Calcium 1,960

Bicarbonate 858

Magnesium 672

Sulfate 1,050

Total Iron Strong Trace

Sulfide faint

Sodium (Calc.) 322

Total Hardness (as Ca CO₃) 7,700

Total Dissolved Solids (Calc.) 42,362

Remarks:

CSGP CO.		
Drig. & Prod. Dept.		
Midland Div.		
SEP 9 1966		
To	In	Out
GK	7/19	
File	✓	



Analyst Jim Foley

Cardinal Representative Bobby Jones

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 235, Midland, Texas 79701	
LEASE NAME FM "B" State	WELL NO. 3	FIELD Flying "M" (San Andres)	COUNTY Lea
LOCATION UNIT LETTER F ; WELL IS LOCATED 1980 FEET FROM THE north LINE AND 1980 FEET FROM THE west LINE, SECTION 17 TOWNSHIP 9S RANGE 33E NMPM.			

CASING AND TUBING DATA					
NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING					
24#, J-55	8-5/8"	400'	250	Surf.	Circ.
INTERMEDIATE					
LONG STRING					
9.5#, J-55	4-1/2"	4549'	200	3390'	Calc.
TUBING			NAME, MODEL AND DEPTH OF TUBING PACKER		
4.7#, J-55	2-3/8"	4385'			
NAME OF PROPOSED INJECTION FORMATION San Andres			TOP OF FORMATION 4418'	BOTTOM OF FORMATION 4465'	
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? Tubing		PERFORATIONS OR OPEN HOLES? Perfs.	PROPOSED INTERVAL(S) OF INJECTION 4418' - 4465'		
IS THIS A NEW WELL DRILLED FOR DISPOSAL? No	IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? Oil production			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					
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 - - -		DEPTH OF TOP OF NEXT LOWER OIL OR GAS ZONE IN THIS AREA 8500'	
ANTICIPATED DAILY INJECTION VOLUME (BBLs.)	MINIMUM 250	MAXIMUM 1000	OPEN OR CLOSED TYPE SYSTEM Open	IS INJECTION TO BE BY GRAVITY OR PRESSURE? Pressure	APPROX. PRESSURE (PSI) 2000
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 - See attached			WATER TO BE DISPOSED OF Yes	NATURAL WATER IN DISPOSAL ZONE Yes	ARE WATER ANALYSES ATTACHED? Yes
NAME AND ADDRESS OF SURFACE OWNER (OR LESSEE, IF STATE OR FEDERAL LAND) B. M. Medlin, Tatum, New Mexico (Lessee)					
LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL					
Louisiana Land and Expl. Co., V&J Tower, Midland, Texas					
Pan American Petro. Corp., P. O. Box 1696, Midland, Texas					
HAVE COPIES OF THIS APPLICATION BEEN SENT TO EACH OF THE FOLLOWING?		SURFACE OWNER		EACH OPERATOR WITHIN ONE-HALF MILE OF THIS WELL	
				Yes	
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B)		PLAT OF AREA		ELECTRICAL LOG	
		Yes		Yes	
				THE NEW MEXICO STATE ENGINEER	
				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 Production Superintendent

(Title)

December 9, 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.



STATE OF NEW MEXICO
STATE ENGINEER OFFICE
SANTA FE

S. E. REYNOLDS
STATE ENGINEER

December 13, 1966

ADDRESS CORRESPONDENCE TO:
STATE CAPITOL
SANTA FE, NEW MEXICO 87501

Mr. A. L. Porter, Jr.
Secretary-Director
Oil Conservation Commission
Santa Fe, New Mexico

Dear Mr. Porter:

Reference is made to the application of Coastal States Gas Producing Company which seeks administrative approval to expand their Flying "M" Pressure Maintenance Project by converting their FM "B" well No. 3 to water injection. This project was authorized by the Commission's Order R-3033.

After reviewing the application and the exhibits attached thereto, it appears that no threat of contamination to the fresh waters which exist in the area will occur. Therefore, this office offers no objection to the granting of this application, provided the packer on the end of the tubing is set not more than 200' above the uppermost perforations shown on the diagrammatic sketch of the well.

FEI/ma
cc-Coastal States Gas Producing
Co.
F. H. Hennighausen

Yours truly,

S. E. Reynolds
State Engineer

By: *Frank E. Irby*
Frank E. Irby
Chief
Water Rights Div.