

PETROLEUM CORPORATION OF TEXAS

P. O. BOX 911
BRECKENRIDGE, TEXAS 76024

May 5, 1978

Oil Conservation Commission
State of New Mexico
P. O. Box 2088
Santa Fe, NM 87501

Attention: Mr. J. D. Ramey

Supplement to our Form C-108
for the Mary Ann Cannon
Well No. 7
1315' FSL & 2635' FEL
Sec. 27, Twp. 10-S, Rng. 25E
South Bitter Lake (San Andres)
Chaves County, New Mexico

Gentlemen:

Enclosed please find our form C-108 and supporting data
for the above well.

These enclosures include schematics of all plugged and
producing wells within one-half of the above well, plat,
and data of wells within two miles of the above well.

Very truly yours,



Arthur Boice
Division Superintendent

AHB/gw

Enclosures



NEW MEXICO OIL CONSERVATION COMMISSION

APPLICATION TO DISPOSE OF SALT WATER BY INJECTION INTO A POROUS FORMATION

OPERATOR Petroleum Corporation of Texas		ADDRESS P. O. Box 911 Breckenridge, TX 76024	
LEASE NAME Mary Ann Cannon	WELL NO. 7	FIELD Bitterlake, S. A. South	COUNTY Chaves
LOCATION UNIT LETTER 0 ; WELL IS LOCATED 1315 FEET FROM THE South LINE AND 2635 FEET FROM THE East LINE, SECTION 27 TOWNSHIP 10S RANGE 25E NMPM.			

CASING AND TUBING DATA					
NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING	10-3/4"	30'	30 sx	Surface	Circulated
INTERMEDIATE	7"	657'	750 sx	Surface	Circulated
LONG STRING	4-1/2"	1030'	125 sx	Surface	Filled annulus w/Ready Mix
TUBING			NAME, MODEL AND DEPTH OF TUBING PACKER Guiberson Tension-Type set @ 873'		
NAME OF PROPOSED INJECTION FORMATION South Bitter (San Andres)			TOP OF FORMATION 850'	BOTTOM OF FORMATION 974'	
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? Tubing (plastic coated)		PERFORATIONS OR OPEN HOLE? 903' - 972'	PROPOSED INTERVAL(S) OF INJECTION 903' - 972'		
IS THIS A NEW WELL DRILLED FOR DISPOSAL? No	IF ANSWER IS NO, FOR WHAT PURPOSE WAS WELL ORIGINALLY DRILLED? Water injection			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 601'		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 none	
ANTICIPATED DAILY INJECTION VOLUME (BBLs.) 50 bbls	MINIMUM 100 bbls	MAXIMUM Open	OPEN OR CLOSED TYPE SYSTEM Pressure	IS INJECTION TO BE BY GRAVITY OR PRESSURE? 180 psi	APPROX. PRESSURE (PSI) 180 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 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) J. P. Cannon Roswell, New Mexico					
LIST NAMES AND ADDRESSES OF ALL OPERATORS WITHIN ONE-HALF (1/2) MILE OF THIS INJECTION WELL Records indicate no offset operators within one-half mile of this well.					
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 None	
ARE THE FOLLOWING ITEMS ATTACHED TO THIS APPLICATION (SEE RULE 701-B) Yes		PLAT OF AREA Yes		ELECTRICAL LOG No log on #7, Copy of #6 attached	
				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.

John Bone Division Superintendent May 5, 1978
(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.

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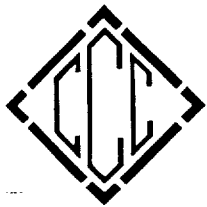
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Cochran Chemical Company, Inc.

DE-EMULSIFIERS • WATERFLOOD CHEMICALS • PARAFFIN SOLVENTS • SCALE REMOVER & INHIBITORS

P. O. DRAWER 1341

PHONE 257-2825

CCC, INC.
P. O. Box 5421
MIDLAND, TEXAS 79701
682-7860

WEWOKA, OKLAHOMA
74884

May 23, 1977

PETROLEUM CORPORATION OF TEXAS
Mary Ann Cannon Lease
Roswell, New Mexico

INTRODUCTION:

A sample of water has been analyzed in our laboratory and we are pleased to submit a water analysis which includes total dissolved solids, pH, and the concentrations of Chlorides and sulfates.

WATER ANALYSIS:

Total Solids-----	2,060 Mg/L
pH-----7.00-----	
Iron-----	12.0 Mg/L
Calcium Bicarbonate (CaHCO ₃)-----	400 Mg/L
Calcium Chloride (CaCL ₂)-----	650 "
Magnesium Chloride (MgCL ₂)-----	190 "
Sodium Chloride (NaCl)-----	820 "

Dr. William B. Hughes
Chemist

PETROLEUM CORPORATION OF TEXAS
SUPPLEMENT
MARY ANN CANNON LEASE
WELL NO. 7
MAY 5, 1978

Below is a list of all wells outside of the one-half mile radius, but within the two mile radius of the above well.

0-2-CH-110 (1)	Wayne J. Spears #1 Elk
OBSERV. WELL	SE/4, NE/4, SW/4 of Sec. 22, T-10-S, R-25-E, S. Bitter Lake, San Andres, Chaves County, New Mexico
034548-A	Mohawk Federal
	660' FSL & 1980' FWL, Unit N, Sec. 22, T-10-S, R-25-E, S. Bitter Lake, San Andres, Chaves County, New Mexico P & A
034943-A	Bright Federal #1-23
	1650' FSL & 330' FWL, Sec. 23, T-10-S, R-25-E, S. Bitter Lake, San Andres, Chaves County, New Mexico P & A
080982	Gorman Federal #2
	330' FSL & 2310' FEL, Unit O, Sec. 26, T-10-S, R-25-E, NMPM, S. Bitter Lake, San Andres, Chaves County, New Mexico, P & A
07306	Leonard Federal #5
	330' FSL & 1980' FWL, Unit N, Sec. 26, T-10-S, R-25-E, NMPM, Field undesignated, Chaves County, New Mexico P & A
07384	Elliott Federal #1
	1650' FNL & 660' FWL, Unit E, Sec. 26, T-10-S, R-25-E, NMPM, S. Bitter Lake, San Andres, Chaves County, New Mexico Producer
07306	Leonard Federal #4
	1650' FNL & 990' FEL, Unit H, Sec. 27, T-10-S, R-25-E, NMPM, S. Bitter Lake, San Andres, Chaves County, New Mexico Producer
07306	Leonard Federal #3
	330' FNL & 2310' FEL, Unit B, Sec. 27, T-10-S, R-25-E, NMPM, S. Bitter Lake, San Andres, Chaves County, New Mexico Producer
05876	DeKalb Federal #2
	660' FNL & 1980' FWL, Unit C, Sec. 27, T-10-S, R-25-E, NMPM, S. Bitter Lake, San Andres, Chaves County, New Mexico Producer

PETROLEUM CORPORATION OF TEXAS
SUPPLEMENT - PAGE 2
MARY ANN CANNON WELL NO. 7
MAY 5, 1978

080982	Gorman Federal #1 330' FNL & 990' FEL, Unit B, Sec. 27, T-10-S, R-25-E, NMPM, S. Bitter Lake, San Andres, Chaves County, New Mexico P & A
No. Unknown	W. B. Lyman, Jr. #1 SW/4, SE/4, Unit O, Sec. 34, T-10-S, R-25-E, S. Bitter Lake, San Andres, Chaves County, New Mexico P & A
038399	J. R. Monroe #2 1650' FNL & 1980' FWL, Sec. 34, T-10-S, R-25-E, NMPM, S. Bitter Lake, San Andres, Chaves County, New Mexico P & A
038399	J. R. Monroe #3 1650' FNL & 2290' FEL, Sec. 34, T-10-S, R-25-E, NMPM, S. Bitter Lake, San Andres, Chaves County, New Mexico P & A
No. Unknown	Zimmerman #2 1650' FNL & 1980' FEL, Sec. 35, T-10-S, R-25-E, NMPM, Coyote Queen, Chaves County, New Mexico P & A
07306	Leonard Federal #1 660' FNL & 2310' FEL, Unit B, Sec. 35, T-10-S, R-25-E, San Andres, Chaves County, New Mexico P & A
07306	Leonard Federal #2-A 660' FNL & 2300' FEL, Unit B, Sec. 35, T-10-S, R-25-E, NMPM, Bitter Lake, Chaves County, New Mexico. P & A
No. Unknown	Zimmerman #1 660' FNL & 1980' FWL, Sec. 35, T-10-S, R-25-E, NMPM, Coyote Queen, Chaves County, New Mexico P & A
05876	DeKalb #4 990' FNL & 990' FWL, Unit D, Sec. 27, T-10-S, R-25-E, NMPM, S. Bitter Lake, Chaves County, New Mexico Producer.

Well

PLAN - O - G R A M

Unit Letter

D	C	B	A
E	F	G	H
L	K	J	I
M	N	O	P

Company Petroleum Corporation of Texas

Well No. 7 Lease Mary Ann Cannon

1315' FSL and 2635' FEL of Section 27,
Township 10-S, Range 25-E Chavez Co., N.M.

Pool: South Bitter Lake (San Andres)

12 1/4" hole

10 3/4" Csg. 33 # Set @ 30' w/30 Lx Cmt - Cmt. Circ.

9 5/8" hole

7" Csg. 20 # Set @ 657' w/750 Lx Cmt - Cmt. Top at Surface

2 3/8" Plastic Lined Tbg Set @ 873'

Hubberson Tension Type Packer Set @ 873'

Perfs 903'-972' San Andres

4 1/2" Csg. 11.6 # Set @ 1030' w/125 Lx Cmt - Rest of annulus filled
with ready mix

6 1/4" hole TD 1037'

Cementing

Special Tools

Acidizing

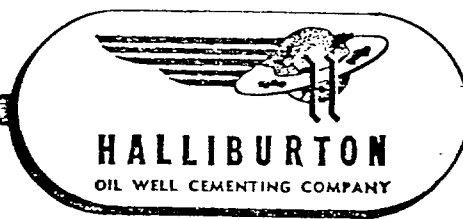
Chemical Services

Formation Testing

Fracturing

Dump Bailer

Casing Equipment



Well

PLAN - O - GRAM

Unit Letter

D	C	B	A
E	F	G	H
L	K	J	I
M	N	O	P

Company DeKalb Agric. Assn. Inc

Well No. 1 Lease Mary Ann Cannon
2970' SNL and 3630' WEL of Section 27,
Township 10-S, Range 25-E
Chaves, Co. N.M.

Drly to 473' Lost circ., stuck drill pipe, left drill pipe in hole
Placed 10 sp cmt cap on well & cmt marker in place
Plugged 4-6-47.

Cementing

Special Tools

Acidizing

Chemical Services

Formation Testing

Fracturing

Dump Boiler

Casing Equipment



Well PLAN - O - G R A M

Unit Letter

D	C	B	A
E	F	G	(H)
L	K	J	I
M	N	O	P

Company Dekalb Agricultural Assn. Inc.

Well No. 2 Lease Mary Ann Cannon
3630' SNL and 2970' WEL of Section 27,
Township 10-S, Range 25-E Chavez Co. N.M.

← 11" hole

8 5/8" Csg was set @ 545' all 8 5/8" was pulled when plugged 6-10-48

25 lb Plug w/ Top @ 650' Set 6-10-48

5 1/2" Csg Stub @ 520' w/ 10 lb Cmt plug on top Set 6-10-48

← 7 7/8" hole size

5 1/2" Csg 14# Set @ 724' Cmt w/ 50 lb Cmt Top 530' Est.

Open hole completion 890'-983' (San Andres)

TD 1013' PBTD 983'

Cementing

Special Tools



HALLIBURTON
OIL WELL CEMENTING COMPANY

Acidizing

Chemical Services

Formation Testing

Fracturing

Dump Bailer

Casing Equipment

Well

P L A N - O - G R A M

Unit Letter

D	C	B	A
E	F	G	H
L	K	J	I
M	N	O	P

Company DeKalb Agricultural Assoc. Inc.

Well No. IX Lease Mary Ann Cannon
3000' SNL and 3630' WEL of Section 27,
Township 10-S, Range 25-E
Chavez, Co. N.M.

Lost hole 4-8-47 TD was 245'

Placed 10 sack cap on well, and cmt marker in place

Cementing

Special Tools

Acidizing

Chemical Services

Formation Testing

Fracturing

Dump Bailer

Casing Equipment



HALLIBURTON
OIL WELL CEMENTING COMPANY

Well

PLAN-O-GRAM

Unit Letter

Company Petroleum Corporation of Texas

Well No. 3 Lease De Kalb Federal
1980' FNL and 660' FWL, Section 27, Township
10-S, Range 25-E, Chaves Co. N.M.

D	C	B	A
(E)	F	G	H
L	K	J	I
M	N	O	P

NM-05874

9 5/8" hole

7" Csg 20# Set @ 720' w/ 277 Sx Cmt - Cmt - Circ

4 1/2" Csg 11.6# Set @ 826' w/ 35 Sx Cmt. Est Cmt Top. 560'

Open hole completion
6 7/8" hole TD 883'

Cementing

Special Tools

Acidizing

Chemical Services

Formation Testing

Fracturing

Dump Bailer

Casing Equipment



Well

PLAN - O - G R A M

Unit Letter

D	C	B	A
E	F	G	H
L	K	J	I
M	N	O	P

Company Petroleum Corporation of Texas

Well No. 1 Lease DeKalb Federal

1980' FNL and 1980' FWL of Section 27,
Township 10-S, Range 25-E Chaves Co. N.M.

Pool: South Butter Lake (San Andres)

7" Csg 24# Set @ 710' w/200 Lb Cmt - Cmt - Top 35'

Perfs 877'-899' San Andres

4½" Csg 11.6# Set @ 900' w/25 Lb Cmt. - Est Cmt Top 627'

6¼" hole TD 902'

Cementing

Special Tools

Acidizing

Chemical Services

Formation Testing

Fracturing

Dump Bailer

Casing Equipment



HALLIBURTON
OIL WELL CEMENTING COMPANY

Well

PLAN - O - G R A M

Unit Letter

D	C	B	A
E	F	G	H
L	K	J	I
M	N	O	P

Company Petroleum Corporation of Texas

Well No. 1 Lease Leonard Federal
2310' FNL and 2310' FEL of Section 27,
Township 10-S, Range 25-E Chaves Co. N.M.
Pool: South Bitter Lake (San Andres)

NM-07306

9 ⁵/₈" hole

7" Csg. 20-# Set @ 844' w/ 225 Sp Cmt - Cmt - Circ.

4 ¹/₂" Csg. 9.5# Set @ 898' w/ 35 Sp Cmt - Est. Top 719'

Open Hole Completion 898'-902'

6 ¹/₄" hole TD 930' PBTD 902'

Cementing

Special Tools

Acidizing

Chemical Services

Formation Testing

Fracturing



Dump Bailer

Casing Equipment

Well PLAN-O-GRAM

Unit Letter

Company Petroleum Corp. of Texas
Box 911, Breckenridge, Tx. 76024
 Well No. 8Y SWB Lease Mary Ann Cannon
Unit Letter N, 1315 FSL, 13750 FWL, Sec. 27
Township 10S, Range 25E
Cherokee County, N.M.

D	C	B	A
E	F	G	H
L	K	J	I
M	(N)	O	P

9 5/8" Csg. Set @ 433' w/ 175 sp. Cmt. Circulated

7" Csg. Set @ 641' w/ 150 sp. Cmt. to surface

2 3/8" Tbz. Set @ 844'

Quilberson Tension Type Packer Set @ 844'

Perfs. @ 850'-917' 12 holes 3/8", acidized w/ 2000 Hala. 15% HCL

PBTD 935'

4 1/2" Csg. Set @ 968' w/ 110 sp. Rest of annulus filled w/ ready mix

TD 968'

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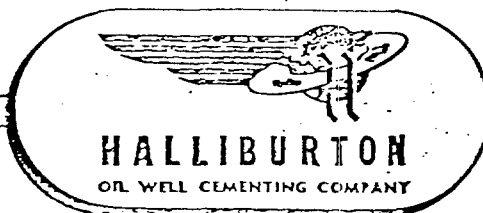
Special Tools

Acidizing

Chemical Services

ation Testing

Fracturing



Dump Bailer

Casing Equipment

Well

PLAN - O - G R A M

Unit Letter

D	C	B	A
E	F	G	H
L	K	J	I
M	(N)	O	P

Company Petroleum Corporation of Texas

Well No. 6 Lease Mary Ann Cannon

660' FSL and 1980' FWL of Section 27,

Township 10-S, Range 25-E, Chaves Co. N.M.

Pool: South Bitter Lake (San Andres)

10 ³/₄" Csg. 33# Set @ 30' w/ 30 lb Cmt - Cmt. Circ

7" Csg 20# Set @ 668' w/ 250 lb Cmt. Cmt. Top 100'

Surfs 882'-947' San Andres

4 ¹/₂" Csg. 11.6# Set @ 1004' w/ 100 lb Cmt - Cmt. Circ.

Cementing

Special Tools

Acidizing

Chemical Services

Formation Testing

Fracturing

Dump Bailer

Casing Equipment



HALLIBURTON
OIL WELL CEMENTING COMPANY

Well

PLAN - O - G R A M

Unit Letter

D	C	B	A
E	F	G	H
L	K	J	I
M	N	O	P

Company Petroleum Corporation of Texas

Well No. 5 Lease Mary Ann Cannon

660' FSL and 1980' FEL of Section 27, Township
10-S, Range 25-E Charles Co. n.m.
Pool: South Bitter Lake (San Andres)

12 1/4" hole

10 3/4" Csg. 32.75# Set @ 30' w/ 8 1/2" Cmt. - Cmt. Circ.

9 5/8" hole

7" Csg. 20# Set @ 600' w/ 2 1/2" Cmt. - Cmt. Circ.

Perfor 923'-998' San Andres

4 1/2" Csg. 11.6# Set @ 1048' w/ 1 1/2" Cmt in two stages - Cmt top 550'

6 1/4" hole TD 1056'

Cementing

Special Tools

Acidizing

Chemical Services

Formation Testing

Fracturing

Dump Boiler

Casing Equipment



HALLIBURTON
OIL WELL CEMENTING COMPANY

Well

PLAN - O - G R A M

Unit Letter

D	C	B	A
E	F	G	H
L	K	J	I
(M)	N	O	P

Company Petroleum Corporation of Texas

Well No. 4 Lease Mary Ann Cannon

990' FWL and 990' from SL of Section 27,
Township 10-S, Range 25-E, Chaves Co. N.M.

Pool: South Bitter Lake (San Andres)

5½" Csg. 17# Set @ 817' w/ 250 Sp Cmt. - Cmt Circ to Surface

Open Hole Completion 817'-898' San Andres

7½" hole TD 898'

Cementing

Special Tools

Acidizing

Chemical Services

Formation Testing

Fracturing

Dump Bailer

Casing Equipment



HALLIBURTON
OIL WELL CEMENTING COMPANY

Well PLAN - O - G R A M

Unit Letter

D	C	B	A
E	F	G	H
(L)	K	J	I
M	N	O	P

Company Petroleum Corporation of Texas

Well No. 3 Lease Mary Ann Cannon

1980' FSL and 660' FWL of Section 27, Township
10S, Range 25-E, Chavez Co. N.M.

Pool: South Bitter Lake (San Andres)

9 5/8 hole

7" Cag. 20 # Set @ 823' w/350 Sp Cmt. - Cmt. Circ.

Perfs 834-848 San Andres

4 1/2" Cag. 11.6 # Set @ 836' w/35 Sp Cmt. - Est Cmt. - 657'

6 7/8 hole TD 877

Cementing

Special Tools



HALLIBURTON
OIL WELL CEMENTING COMPANY

Acidizing

Chemical Services

Formation Testing

Fracturing

Dump Bailer

Casing Equipment

Well

PLAN - O - G R A M

Unit Letter

D	C	B	A
E	F	G	H
L	K	J	I
M	N	O	P

Company Petroleum Corporation of Texas

Well No. 2 Lease Mary Ann Cannon

1980' FSL and 1980' FEL of Section 27, Township
10S, Range 25E, Chaves Co. N.M.

Pool S. Better Lake (San Andres)

9 5/8" hole

7" Csg 24# Set @ 560' w/ 220 Lx Cmt - Cmt Csg.

Perfs 926'-933' San Andres

4 1/2" Csg. 11.6# Set @ 960' w/ 50 Lx Cmt - Est. Cmt Top 570'
6 1/4" hole TD 960'

Cementing

Special Tools

Acidizing

Chemical Services

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Fracturing

Dump Bailer

Casing Equipment



HALLIBURTON
OIL WELL CEMENTING COMPANY

'Well PLAN - O - G R A M

Unit Letter

D	C	B	A
E	F	G	H
L	(K)	J	I
M	N	O	P

Company Petroleum Corporation of Texas

Well No. 1 Lease Mary Ann Cannon
 1980' FWL and 1980' FSL of Section 27, Township
 10S, Range 25E, Charles Co., N.M.
 Pool: South Bitterlake, (San Andres)

9 5/8" hole

7" Csg. 24# Set @ 680' Cmt w/ 210 Sp - Cmt Circ.

Perfs 872'-903' San Andres

4 1/2" Csg. 11.60# Set @ 910' w/ 50 Sp Cmt - Est Cmt Top 570'
 6 1/4" hole T.D. 910'

Cementing

Special Tools

Acidizing

Chemical Services

Formation Testing

Fracturing



Dump Bailer

Casing Equipment