

PETROLEUM CORPORATION OF TEXAS

P. O. BOX 911

BRECKENRIDGE, TEXAS 76024

January 10, 1978

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

ATTENTION: Mr. J. D. Ramey

RE: Supplement to our form C-108
for the Mary Ann Cannon Lease,
Well #8Y
1315' FSL, 1375' FWL, Unit N,
Section 27, T-10-S, R-25-E,
So. Bitter Lake, (San Andres),
Chaves County, New Mexico

Gentlemen:

Enclosed please find additional data that we failed to enclose with our form C-108 on the above application.

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

Very truly yours,



Arthur Boice
Division Superintendent

AHB/jac

Enclosures



SWD-202

Form C-108
Revised 1-1-65

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. 8-Y	FIELD Bitterlake, S A South	COUNTY Chaves
LOCATION UNIT LETTER N ; WELL IS LOCATED 1315 FEET FROM THE South LINE AND 1375 FEET FROM THE West LINE, SECTION 27 TOWNSHIP 10 S RANGE 25 E NMPM.			

CASING AND TUBING DATA

NAME OF STRING	SIZE	SETTING DEPTH	SACKS CEMENT	TOP OF CEMENT	TOP DETERMINED BY
SURFACE CASING	9 5/8"	433'	175 sx	Surface	Circulated
INTERMEDIATE	7"	641'	150 sx	Surface	Circulated
LONG STRING	4 1/2"	968'	110 sx	Surface	Filled annulus w/Ready Mix
TUBING	2 3/8"	844'	NAME, MODEL AND DEPTH OF TUBING PACKER Guiberson Tension Type set @ 844'		

NAME OF PROPOSED INJECTION FORMATION South Bitterlake (San Andres)		TOP OF FORMATION 850'	BOTTOM OF FORMATION 964'
IS INJECTION THROUGH TUBING, CASING, OR ANNULUS? Tubing (plastic coated)		PERFORATIONS OR OPEN HOLES? 850'-917'(12 holes)	PROPOSED INTERVAL(S) OF INJECTION 850'-917'
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

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? Pressure	APPROX. PRESSURE (PSI) 170 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 Rosewell, 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	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 no log on #8-Y attached log on #6	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 Superintendent

(Title)

December 19, 1977

(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.

***Source of injection fluid will be from the South Bitterlake (San Andres).

Petroleum Corp. of Texas
Supplement
January 10, 1978

Mary Ann Cannon Lease
Well #8Y
NMOCC #R-2658

Below is a list of all wells outside 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 $\frac{1}{4}$, NE $\frac{1}{4}$, SW $\frac{1}{4}$ 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
034932-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, 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 Corp. of Texas
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January 10, 1978

Mary Ann Cannon Lease
Well #8Y
NMOCC #R-2658

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
# unknown	W. B. Lyman, Jr. #1 SW $\frac{1}{4}$, SE $\frac{1}{4}$, 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
# 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
# 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

Company Petroleum Corp. of Texas
Box 911, Breckenridge, Tx. 76024
Well No. 8Y Lease Mary Ann Cannon
Unit Ketter N, 1315 FSL, 1375 FWL, Sec. 27
Township 10S, Range 25E
Charles 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" Jlg Set @ 844'

Quilberson Tension Type Packer Set @ 844'

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

PBTD 935'

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

TD 968'

Cementing

Special Tools

Acidizing

Chemical Services

Formation Testing

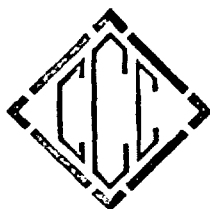
Fracturing

Dump Bailer

Casing Equipment



HALLIBURTON
OIL WELL CEMENTING COMPANY



Cochran Chemical Company, Inc.

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

P. O. DRAWER 1341

PHONE 257-2825

WEWOKA, OKLAHOMA
74884

C.C. INC.
O. Box 5421
DALLAS, TEXAS 79701
12-7860

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 "

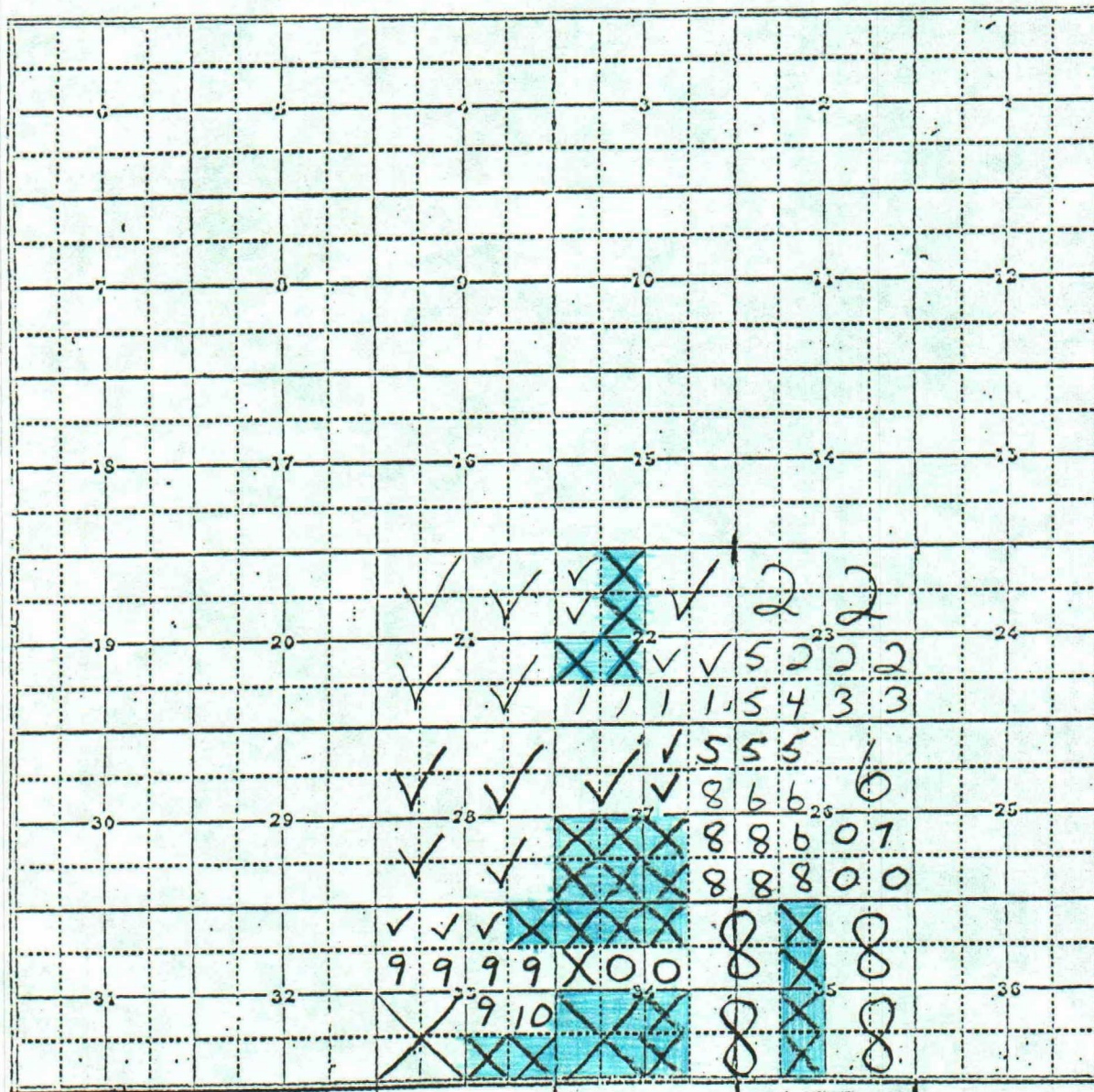
Dr. William B. Hughes
Chemist

SCHUTZ ABSTRACT COMPANY, INC.
P.O. BOX 973
SANTA FE, NEW MEXICO 87501

10 S.-25 E

December 15, 1977

Red.....State Land
Blue.....Fee Land
✓ -WILD LIFE REFUGE
O -OPEN K G S



1. NM-034548A-Petroleum Corporation of Texas L-H.B.P.
2. NM-18213-Don Leeman United Founders Tower, Oklahoma City, Oklahoma L-5-1-73
3. NM-17204-Yates Petroleum Corp. Artesia, New Mexico 88210 L-1-1-73
4. NM-26067-Marguerita P. Smith 9470 Santa Monica Blvd, California L-9-1-75
5. NM-27909-Petroleum Corp 207 S. Fourth St. Artesia, New Mexico L-6-1-76
6. NM-07384-Ernest O. Elliott Etal Petroleum Corporation of Texas L-H.B.P.
7. NM-18484-Orland K. Unruh 507 Midland Nat'l Bank Bldg. L-6-1-73
8. NM-07306-Tenneco Oil Co. L-H.B.P.

Well

PLAN-O-GRAM

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 Butterlake, (San Andres)

9 5/8" hole

7" Cog. 24# Set @ 680' Cmt w/ 210 Sl - Cmt Circ.

Perfs 872'-903' San Andres

4 1/2" Cog. 11.60# Set @ 910' w/ 50 Sl 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



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. 2 Lease Mary Ann Cannon
 1980' FSL and 1980' FEL of Section 27, Township
 10S, Range 25E, Charles Co. N.M.
 Pool S. Better Lake (San Andres)

4 5/8" hole

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

Perfo 926'-933' San Andres

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

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 Gitter Lake (San Andres)

9 5/8 hole

7" Csg. 20# Set @ 823' w/350 Lx Cmt. - Cmt. Circ.

Perfs 834-848 San Andres

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

6 7/8 hole TD 877

Cementing

Special Tools

Acidizing

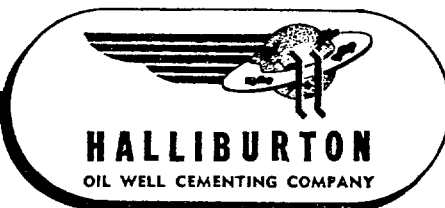
Chemical Services

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. 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

7⅞" hole TD 898'

Cementing

Special Tools

Acidizing

Chemical Services

Formation Testing

Fracturing

Dump Bailer

Casing Equipment



HALLIBURTON
OIL WELL CEMENTING COMPANY

Well

PLAN-O-GRAM

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

Perfs 903'-972' San Andres

4 1/2" Csg. 11.6 # Set @ 1030' w/125 Lx Cmt - Cmt. Circ.

6 1/4" hole TD 1037'

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

Company Petroleum Corp. of Texas
Box 911, Breckenridge, Tx. 76024

Well No. 8Y SWD Lease Mary Ann Cannon
Unit Letter N, 1315 FSL, 1375 FWL, Sec. 27
Township 10S, Range 25E
Charles 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 Gal. 15% HCL

PBTD 935'

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

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 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 $\frac{3}{8}$ " hole

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

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

Open Hole Completion 898' - 902'

6 $\frac{1}{4}$ " hole TD 930'. PBTD 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 DeKalb Federal

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

Pool: South Bitter Lake (San Andres)

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

Perfs 877'-899' San Andres

4 1/2" Csg 11.6# Set @ 900' w/25 Lb Cmt. Est Cmt Top 627'

6 1/4" hole TD 902'

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. 3 Lease De Kalb Federal
1980' FNL into 660' FWL, Section 27, Township
10-S, Range 25-E, Chaves Co. N.M.

NM-05874

9 5/8" hole

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

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

Open hole completion

6 3/4" hole TD 883'

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 DeKalb Agricultural Association

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

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 Charles Co. N.M.

← 11" hole

8 $\frac{5}{8}$ " Csg was set @ 545' all 8 $\frac{5}{8}$ " was pulled when plugged 6-10-48

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

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

← 7 $\frac{7}{8}$ " hole size

5 $\frac{1}{2}$ " 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

Acidizing

Chemical Services

Formation Testing

Fracturing

Dump Bailer

Casing Equipment



HALLIBURTON
OIL WELL CEMENTING COMPANY

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 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.

----- Drtg to 473' lost circ, stuck drill pipe, left drill pipe in hole
Placed 10 sq cmt cap on well & cmt marker in place
Plugged 4-6-47

Cementing

Special Tools

Acidizing

Chemical Services

Formation Testing

Fracturing

Dump Bailer

Casing Equipment



HALLIBURTON
OIL WELL CEMENTING COMPANY