

APPLICATION FOR AUTHORIZATION TO INJECT

I. Purpose: Secondary Recovery Pressure Maintenance Disposal Storage
Application qualifies for administrative approval? yes no

II. Operator: Plains Petroleum Operating Company

Address: 415 W. Wall, Suite 2110 Midland, Texas 79701

Contact party: Steve Owen Phone: (915) 683-4434

III. Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.

IV. Is this an expansion of an existing project? yes no
If yes, give the Division order number authorizing the project R-6677.

V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.

* VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.

VII. Attach data on the proposed operation, including:

- 300 BPD/per well 1. Proposed average and maximum daily rate and volume of fluids to be injected;
- Closed 2. Whether the system is open or closed;
- 1300-1600 3. Proposed average and maximum injection pressure;
- 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
- 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).

*VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.

IX. Describe the proposed stimulation program, if any.

* X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)

* XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.

XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

XIV. Certification

I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

Name: Bonnie Husband Title Engineering Tech

Signature: [Signature] Date: July 2, 1990

* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the earlier submittal. Submitted with original project March 25, 1981

III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; location by Section, Township, and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;
- (3) the formation name and depth with expected maximum injection rates and pressures; and
- (4) a notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

INJECTION WELL DATA SHEET

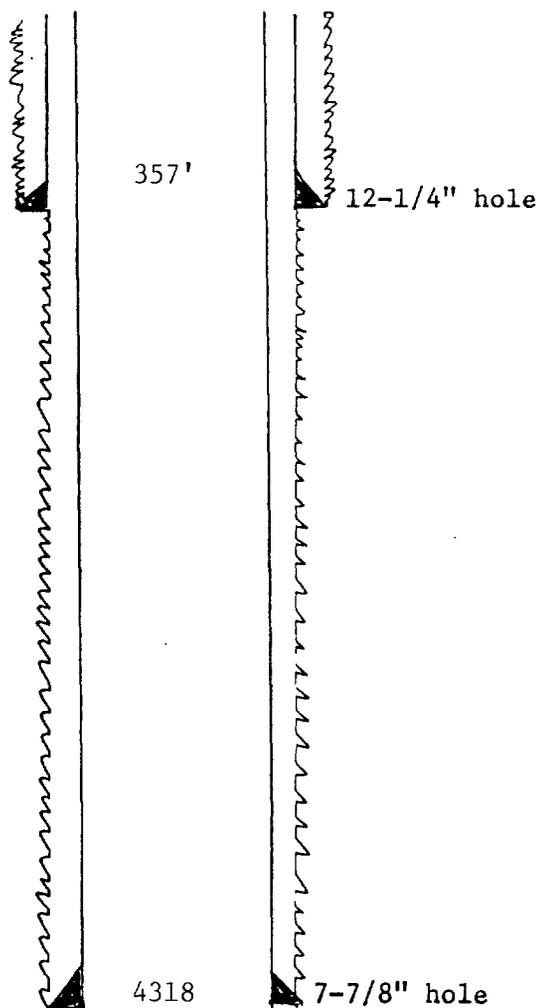
Plains Petroleum Operating Company

Todd Lower San Andres Unit Sec. 19

OPERATOR	LEASE			
15-0	660 FSL & 1980' FEL	Sec. 19, T8S, R36E		
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE

Schematic

Tabular Data



Surface Casing

Size 8-5/8" " Cemented with 250 sx.
 TOC _____ feet determined by _____
 Hole size 12-1/4"

Intermediate Casing

Size _____ " Cemented with _____ sx.
 TOC _____ feet determined by _____
 Hole size _____

Long string

Size 4-1/2" " Cemented with 350 sx.
 TOC 3150 feet determined by _____
 Hole size 7-7/8"

Total depth 4318 PBTD 4287'

Injection interval

4235 feet to 4280 feet
 (perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with plastic coated set in a
 (material)
ARlington Elder Lockset packer at 4164 feet
 (brand and model)
 (or describe any other casing-tubing seal).

Other Data

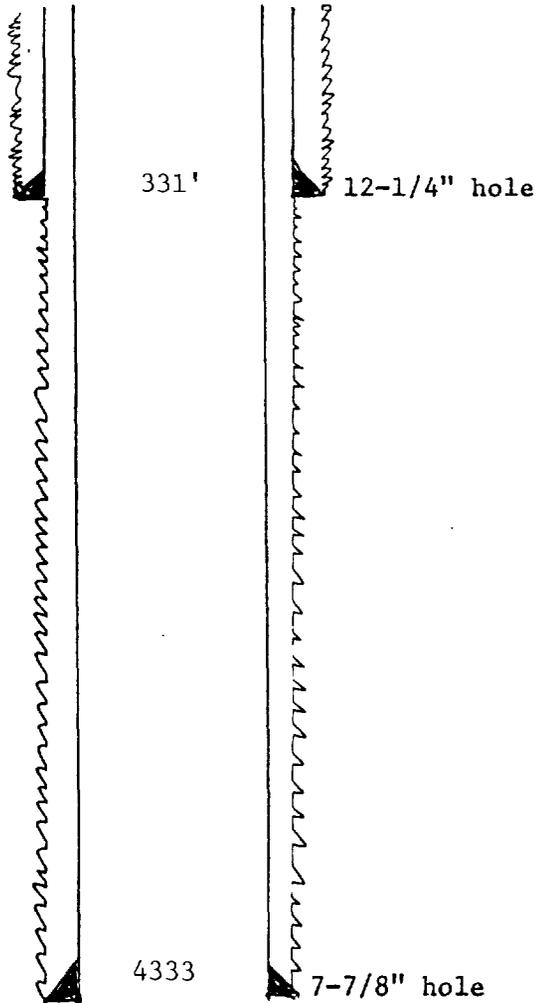
- Name of the injection formation San Andres
- Name of field or Pool (if applicable) Lower San Andres Associated
- Is this a new well drilled for injection? Yes No
 If no, for what purpose was the well originally drilled? producing oil well
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) _____
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. _____

INJECTION WELL DATA SHEET

Plains Petroleum Operating Company Todd Lower San Andres Unit Sec. 31
 OPERATOR LEASE
 11 - K 2120' FSL & 2023' FWL, Sec. 31, T7S, R36E
 WELL NO. FOOTAGE LOCATION SECTION TOWNSHIP RANGE

Schematic

Tabular Data



Surface Casing

Size 8-5/8" " Cemented with 225 sx.
 TOC _____ feet determined by _____
 Hole size 12-1/4"

Intermediate Casing

Size _____ " Cemented with _____ sx.
 TOC _____ feet determined by _____
 Hole size _____

Long string

Size 5-1/2" " Cemented with 250 sx.
 TOC _____ feet determined by _____
 Hole size 7-7/8"
 Total depth 4335 PBTD 4333

Injection interval

4282 feet to 4317 feet
 (perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with plastic coated set in a
 (material)
Arlington Elder Lockset packer at 4202 feet
 (brand and model)
 (or describe any other casing-tubing seal).

Other Data

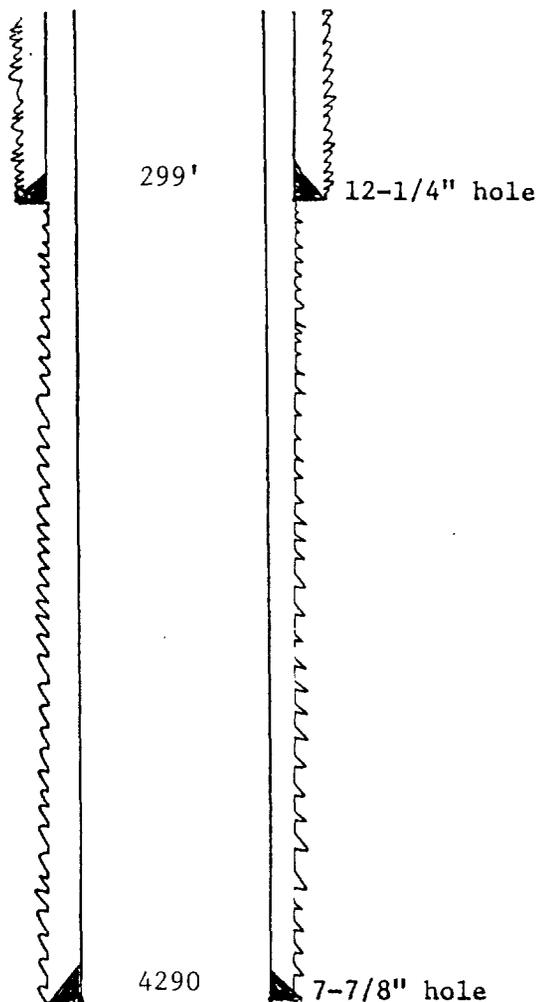
- Name of the injection formation San Andres
- Name of Field or Pool (if applicable) Lower San Andres Associated
- Is this a new well drilled for injection? Yes No
 If no, for what purpose was the well originally drilled? producing oil well
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) _____
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. _____

INJECTION WELL DATA SHEET

Plains Petroleum Operating Company		Todd Lower San Andres Unit Sec. 30		
OPERATOR	LEASE			
3 - C	1871' FWL & 660' FNL, Sec. 30, T7S, R36E			
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE

Schematic

Tabular Data



Surface Casing

Size 8-5/8" " Cemented with 160 sx.
 TOC _____ feet determined by _____
 Hole size 12-1/4"

Intermediate Casing

Size _____ " Cemented with _____ sx.
 TOC _____ feet determined by _____
 Hole size _____

Long string

Size 5-1/2" " Cemented with 250 sx.
 TOC _____ feet determined by _____
 Hole size 7-7/8"
 Total depth 4316

Injection interval

4230 feet to 4270 feet
 (perforated or open-holes, indicate which)

Tubing size 2-3/8" lined with Plastic Coated set in a
 (material)
 Arlington Elder Lockset packer at 4150 feet
 (brand and model)

(or describe any other casing-tubing seal).

Other Data

- Name of the injection formation San Andres
- Name of Field or Pool (if applicable) Lower San Andres Associated
- Is this a new well drilled for injection? Yes No
 If no, for what purpose was the well originally drilled? producing oil well

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) _____

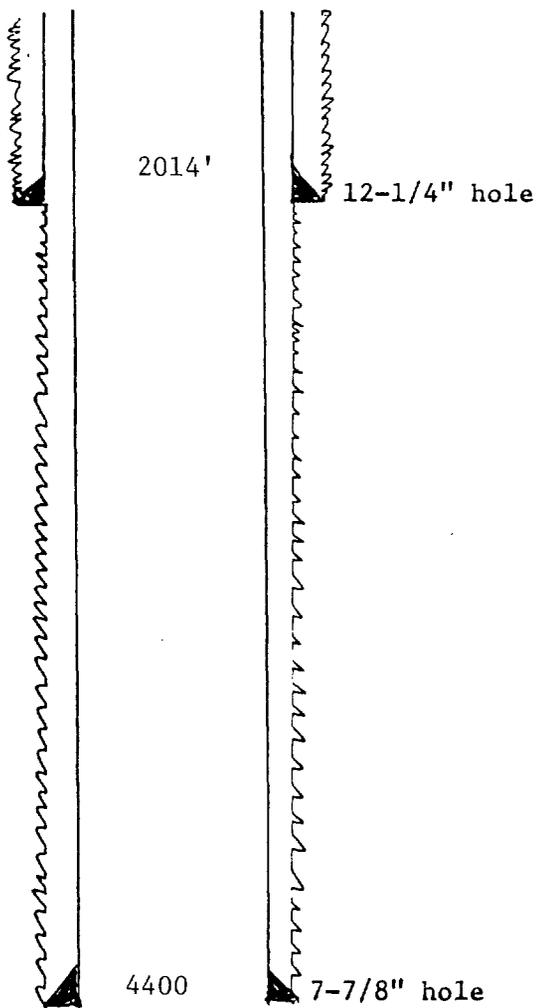
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. _____

INJECTION WELL DATA SHEET

Plains Petroleum Operating Company Todd Lower San Andres Unit Sec. 29
 OPERATOR LEASE
 11 - K 1980' ESL & 1980' FWL Sec. 29, T7S, R36E
 WELL NO. FOOTAGE LOCATION SECTION TOWNSHIP RANGE

Schematic

Tabular Data



Surface Casing

Size 8-5/8" " Cemented with 950 ex.
 TOC _____ feet determined by _____
 Hole size 12-1/4"

Intermediate Casing

Size _____ " Cemented with _____ ex.
 TOC _____ feet determined by _____
 Hole size _____

Long string

Size 5-1/2" " Cemented with 600 ex.
 TOC _____ feet determined by _____
 Hole size 7-7/8"
 Total depth 4400 PBSD 4356'

Injection interval

4259 feet to 4289 feet
 (perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with plastic coated set in a
 (material)
ARlington Elder Lockset packer at 4178 feet
 (brand and model)
 (or describe any other casing-tubing seal).

Other Data

- Name of the injection formation San Andres
- Name of Field or Pool (if applicable) Lower San Andres Associated
- Is this a new well drilled for injection? Yes No
 If no, for what purpose was the well originally drilled? Producing oil well
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) _____
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. _____

INJECTION WELL DATA SHEET

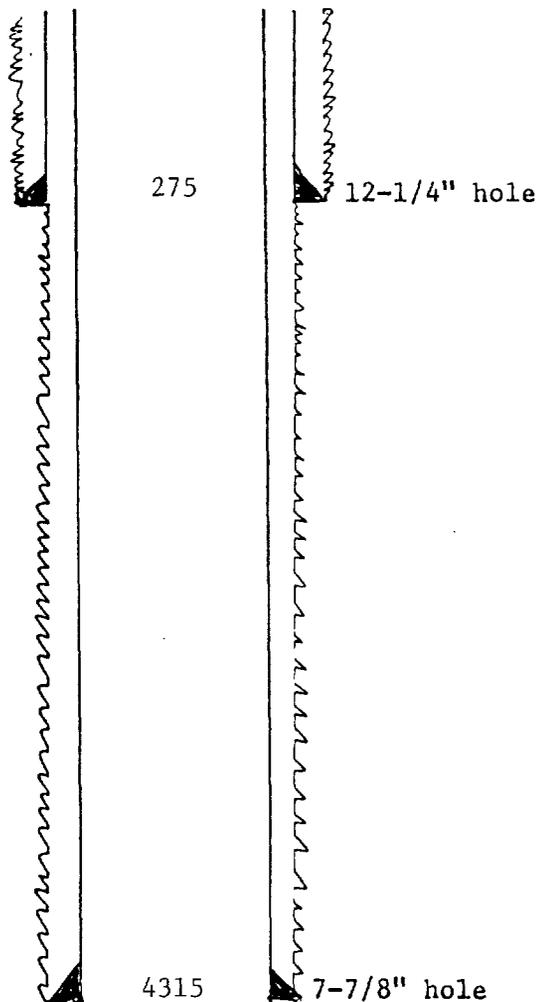
Plains Petroleum Operating Company

Todd Lower San Andres Unit Sec. 25

OPERATOR		LEASE		
15 - 0	330' FSL & 1650' FEL	Sec. 25, T7S, R35E		
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE

Schematic

Tabular Data



Surface Casing

Size 8-5/8" " Cemented with 175 sx.
 TOC _____ feet determined by _____
 Hole size 12-1/4"

Intermediate Casing

Size _____ " Cemented with _____ sx.
 TOC _____ feet determined by _____
 Hole size _____

Long string

Size 5-1/2" " Cemented with 300 sx.
 TOC 3642 feet determined by _____
 Hole size 7-7/8"
 Total depth 4345 PBTD 4274

Injection interval

4213 feet to 4241 feet
 (perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with plastic coated set in a
 (material)
Arlington Elder Lockset packer at 4133 feet
 (brand and model)
 (or describe any other casing-tubing seal).

Other Data

- Name of the injection formation San Andres
- Name of Field or Pool (if applicable) Lower San Andres Associated
- Is this a new well drilled for injection? Yes No
 If no, for what purpose was the well originally drilled? producing oil well
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) _____
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. _____

INJECTION WELL DATA SHEET

Plains Petroleum Operating Company

Todd Lower San Andres Unit Sec. 30

OPERATOR

LEASE

11 - K

1780' FSL & 1980' FWL

Sec. 30, T7S, R36E

WELL NO.

FOOTAGE LOCATION

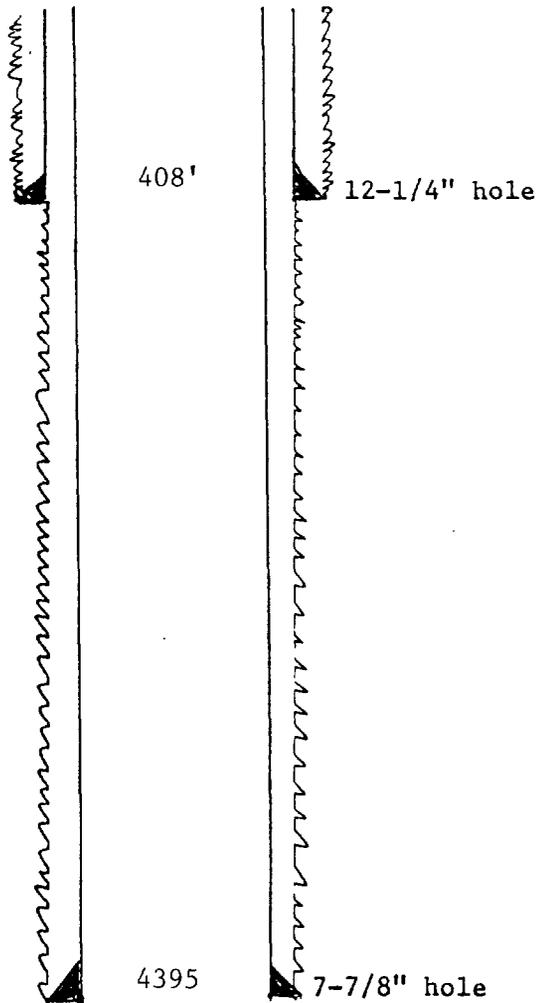
SECTION

TOWNSHIP

RANGE

Schematic

Tabular Data



Surface Casing

Size 8-5/8" " Cemented with 250 sx.

TOC _____ feet determined by _____

Hole size 12-1/4"

Intermediate Casing

Size _____ " Cemented with _____ sx.

TOC _____ feet determined by _____

Hole size _____

Long string

Size 5-1/2" " Cemented with 1500 sx.

TOC _____ feet determined by _____

Hole size 7-7/8"

Total depth 4400 PBD 4355

Injection interval

4269 feet to 4270 feet
(perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with plastic coated set in a

(material)

ARlington Elder Lockset packer at 4189 feet

(brand and model)

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation San Andres

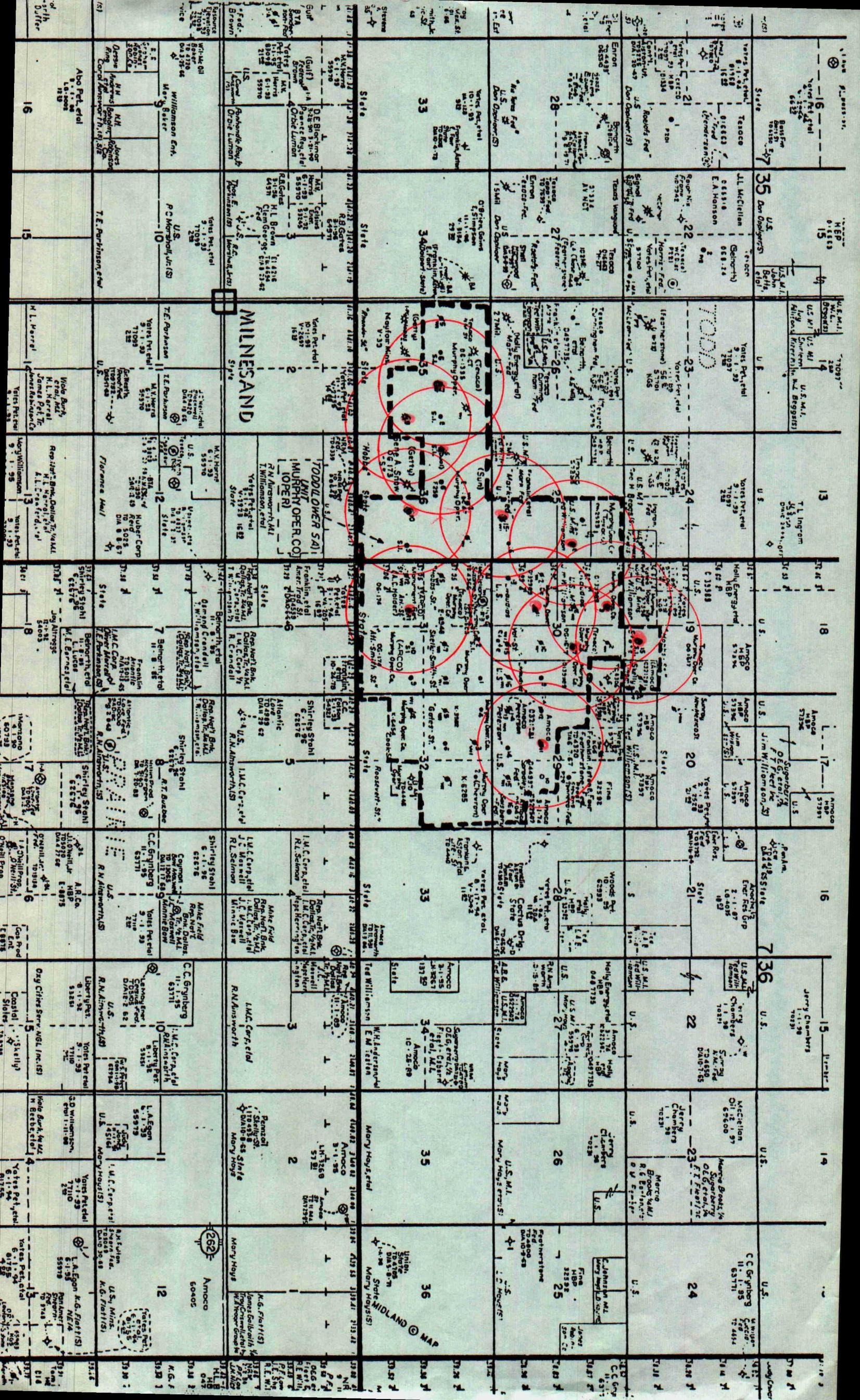
2. Name of Field or Pool (if applicable) Lower San Andres Associated

3. Is this a new well drilled for injection? Yes No

If no, for what purpose was the well originally drilled? producing oil well

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) _____

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. _____



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CHEMLINK WATER ANALYSIS REPORT

Lab ID No. : 051590D

Analysis Date: May 15, 1990

Company : Murphy Operating
 Field : Todd Field
 Lease/Unit : Todd LSAU
 Well ID. : Fresh Water Supply Well
 Sample Loc.: Wellhead

Sampled By : Permian Treating Chemicals
 Sample Date: *3-April-1990
 Salesperson: Gayle Blackwell
 Formation :
 Location : Tatum, N. M.

CATIONS	MG/L	MEQ/L	ANIONS	MG/L	MEQ/L
Calcium as Ca ⁺⁺	127	6	Hydroxyl as OH ⁻	0	0
Magnesium as Mg ⁺⁺	53	4	Carbonate as CO ₃ ⁼	0	0
Sodium as Na ⁺ (Calc)	8	0	Bicarbonate as HCO ₃ ⁻	185	3
Barium as Ba ⁺⁺	Not Determined		Sulfate as SO ₄ ⁼	210	4
Oil Content	0		Chloride as Cl ⁻	130	4

Total Dissolved Solids, Calculated: 713 mg/L.

Calculated Resistivity: 2.716 ohm-meters
 mg/L. Hydrogen Sulfide: 0
 mg/L. Carbon Dioxide: 10
 mg/L. Dissolved Oxygen: 3

pH: 6.920
 Specific Gravity 60/60 F.: 0.998
 Saturation Index @ 80°F.: -0.205
 @ 140°F.: +0.495

Total Hardness: 535 mg/L. as CaCO₃
 Total Iron: 0.10 mg/L. as Fe⁺⁺

PROBABLE MINERAL COMPOSITION

	COMPOUND	MG/L	MEQ/L
	Ca(HCO ₃) ₂	245	3.0
Calcium Sulfate Scaling Potential Not Present	CaSO ₄	225	3.3
	CaCl ₂	0	0.0
Estimated Temperature of Calcium Carbonate Instability is 95 F.	Mg(HCO ₃) ₂	0	0.0
	MgSO ₄	64	1.1
	MgCl ₂	157	3.3
	NaHCO ₃	0	0.0
	Na ₂ SO ₄	0	0.0
Analyst	NaCl	22	0.4

11:37 AM

TODD LOWER SAN ANDRES UNIT

List of Injection Wells and Wells Within 1/2 Mile Radius

Well #15, Sec. 19

TLSA #6, Sec. 30
TLSA #2, Sec. 30
TLSA #3, Sec. 30

Well #3, Sec. 30

TLSA #15, Sec. 19
TLSA #2, Sec. 30
TLSA #7, Sec. 30
TLSA #16, Sec. 30

Well #11, Sec. 30

TLSA #10, Sec. 30
TLSA #7, Sec. 30
TLSA #13, Sec. 30
TLSA #3, Sec. 31
TLSA #16, Sec. 30
TLSA #12, Sec. 30
TLSA #15, Sec. 30

Well #8, Sec. 25

TLSA #7, Sec. 25
TLSA #12, Sec. 30
TLSA #16, Sec. 30
TLSA #16, Sec. 25

Well #7, Sec. 30

TLSA #2, Sec. 30
TLSA #3, Sec. 30
TLSA #16, Sec. 30
TLSA #11, Sec. 30
TLSA #15, Sec. 30
TLSA #10, Sec. 30
#6 Livaudais Fed, Sec. 30

Well #11, Sec. 29

TLSA #10, Sec. 29
TLSA #15, Sec. 29
TLSA #14, Sec. 29
TLSA #12, Sec. 29
TLSA #1, Sec. 29
Read & Stevens Tenn.Fed ✓

Well #15, Sec. 25

TLSA #16, Sec. 25
TLSA #1, Sec. 36
TLSA #2, Sec. 36

Well #11, Sec. 31

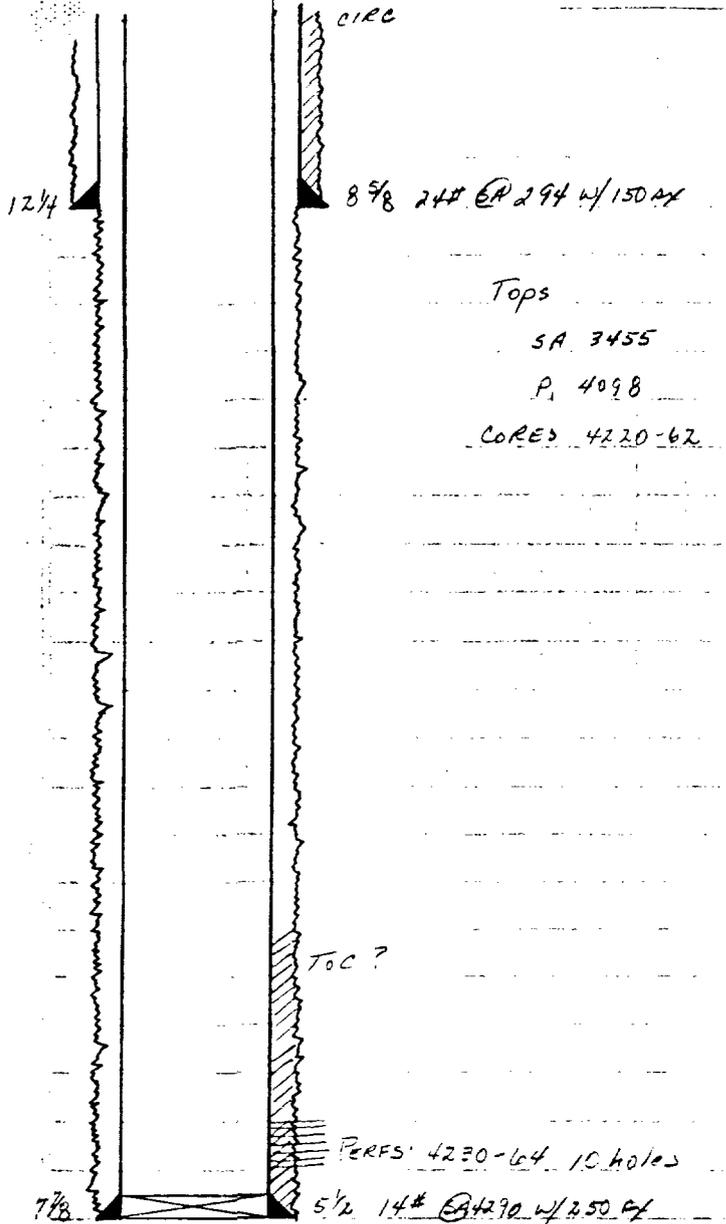
TLSA #10, Sec. 31
TLSA #7, Sec. 31
TLSA #5, Sec. 31
TLSA #10, Sec. 36
TLSA #9, Sec. 36

LEASE & WELL No. TODD 3006
FIELD TODD LOWER SAN ANDRES

PLAINS PETROLEUM
415 W. Wall, Suite 2110
MIDLAND, TEXAS 79701

LOCATION T75, R3106 Roosevelt Co.
Elev. KB 4162 BY SDO DATE 2/27/90
GL 4151

Well History Originally LIVAUDAIS FED. #4



4-10-86 SI
 3-10-87 RTP
 9-25-87 ACIDIZE w/500 BBLs
 6-3-88 converted to WIW LAST TEST @ 30 X 95 BW
 CURRENT CONFIGURATION
 4081' PC 2 3/8 tbg
 5 1/2 AD-1 Pkr

Tops
 SA 3455
 P₁ 4098
 CORES 4220-62

T.D. 4290

POTD 4276

Completion: 6-2-67 Perfs: 4230, 36, 39, 40, 44,
48, 52, 57, 58, 64

ACIDIZED w/3000 gal 15% DS-30

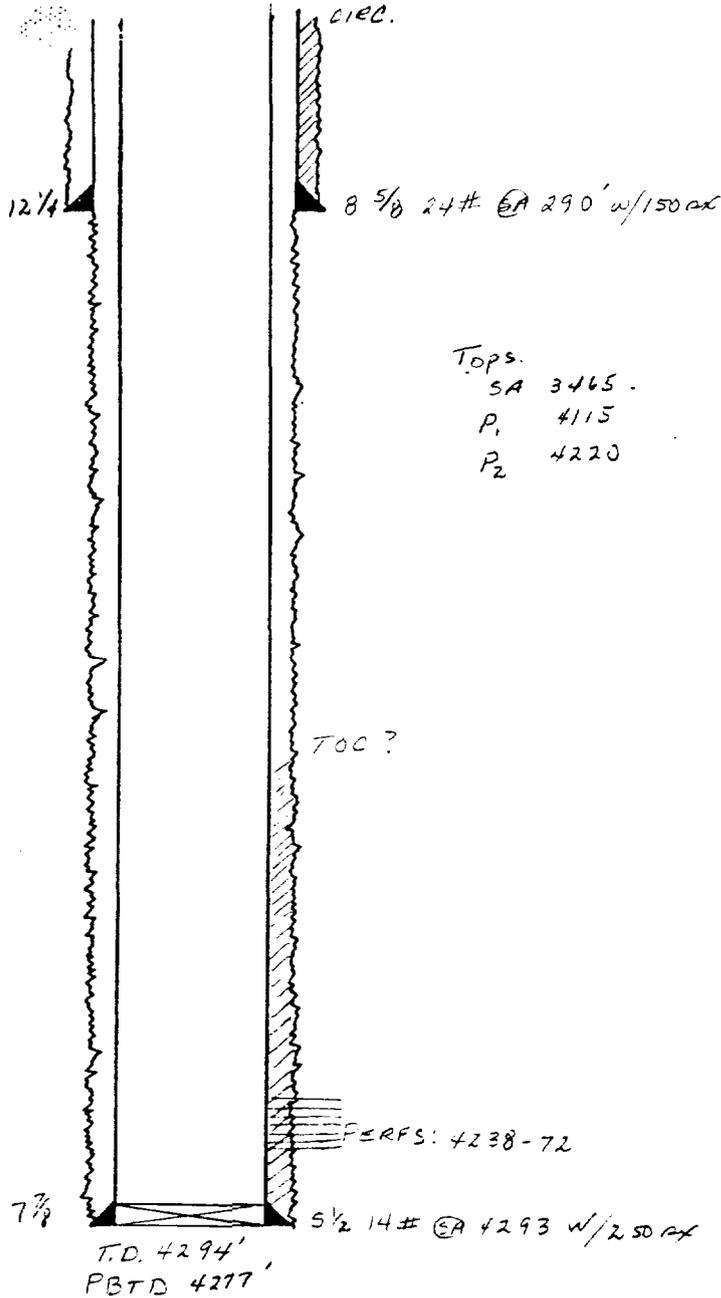
FRAC'd w/50,000 gal L.O. & 51,000 # SMD

IP 175 B0 X 2 BW X 204 MCFD

LEASE & WELL No. TODD 3002
 FIELD TODD Lower SAN ANDRAS

PLAINS PETROLEUM
 415 W. Wall, Suite 2110
 MIDLAND, TEXAS 79701

660FNL & 1980 FEL
 LOCATION Sec. 30, T7S, R36E Roosevelt Co.
 ELEV. KB 4142
 GL 4152 BY AD0 DATE 2/26/90



Tops.
 SA 3465.
 P₁ 4115
 P₂ 4220

Well History - Originally Val state #2

4-28-88 ACIDIZED w/ 2000 gal 15% NEEF 500 psi 4 BPM

8-18-88 CONVERT TO WIW LAST TEST 2 BOX 4AW

Current configuration: 4102' 2 3/8 PC + 6g
 5 1/2 ADI PKR.

6-26-90 converted to producer
 6PMM, PS, SW, 134 ft to 2 3/8
 105 3/4, 62 7/8
 2 x 1 1/2 x 12' pump

100 / 27 50'

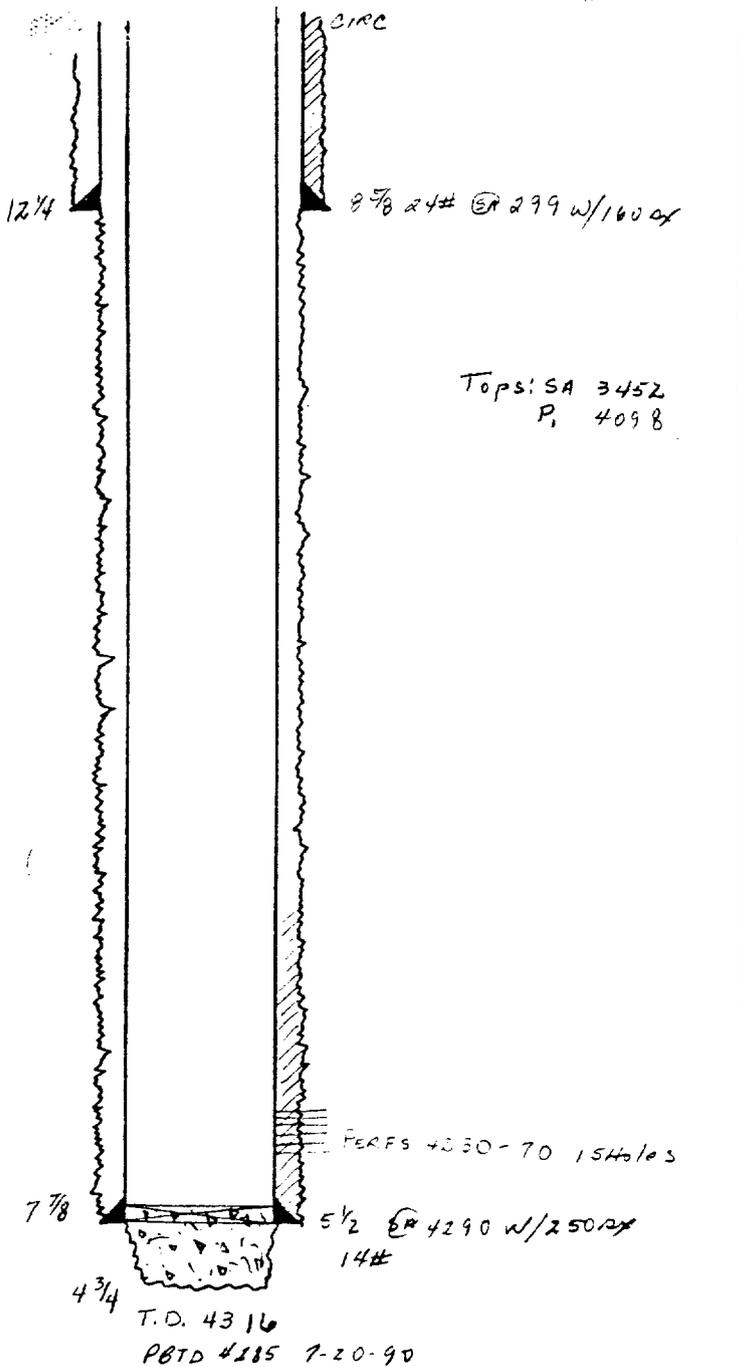
2-9-67
 Completion: Perforated 4238, 41, 44, 47, 51, 55, 58, 63,
 65, 72. 10 Holes
 Acidized 3000 gals 15% DS-30

LEASE & WELL No. TOPO 3003
FIELD TOPO Lower SAN Andres

PLAINS PETROLEUM
415 W. Wall, Suite 2110
MIDLAND, TEXAS 79701

660FN3, 1871FWL S2E3C
LOCATION T75, R36E, Roosevelt Co. NM
ELEV. KB 4166 BY ADN DATE 2/26/90
GL 4156

Well History Originally LIVAUDAIS FED. #3



Tops: SA 3452
P, 4098

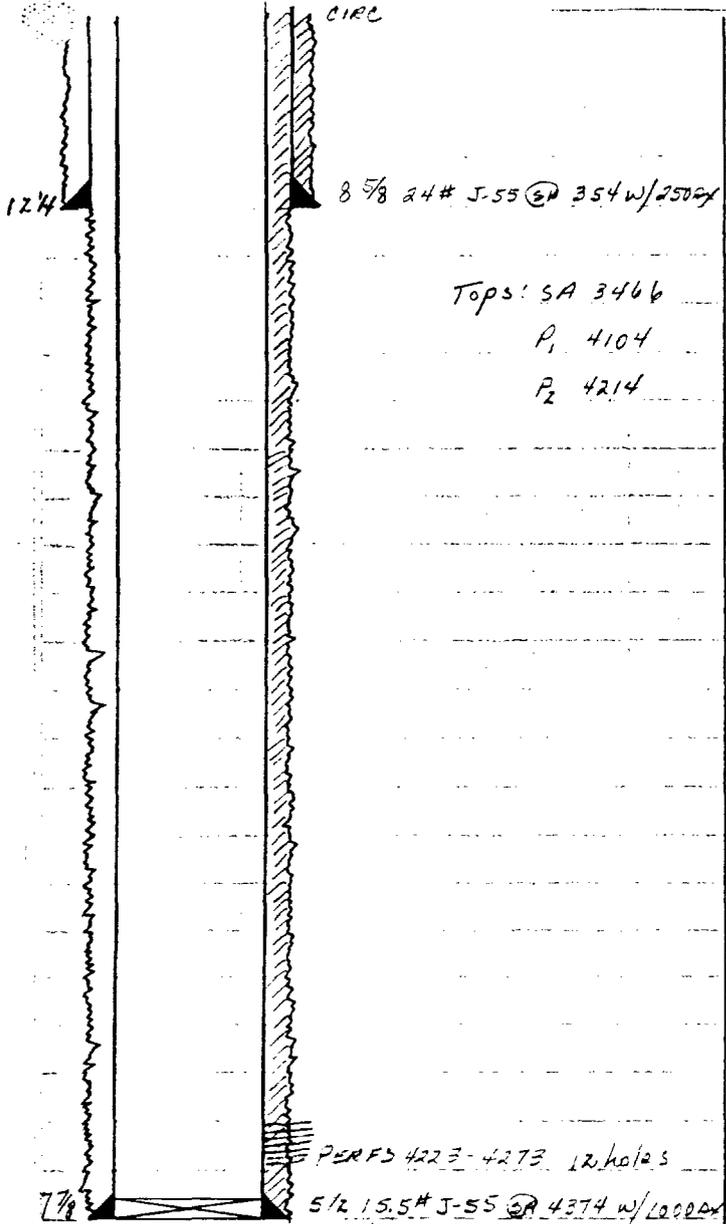
- 10/13/71 TA making 5BOX 53WPD
- 9/12/74 RTP making 5BOX 53W X 8MCFD
- 12/3/84 Drill out to 4316 KB
- 6/10/84 SI
- 3/10/87 RTP
- 7/22/87 Acidize w/ 500 gal.
- 11-1-88 SI LAST TEST 0 BOX 0 BW
- Current Configuration
 - 4280' 2 3/8" log
 - 1600' 3/4" rods
 - 2625' 7/8" rods
 - 2 x 1 1/2 x 12' pump
- 7-20-90 Plugged back OH
- Converted to WIN
- 132 jts 2 3/4" PC & AD-1 pka

Completion: 4-15-67
Perforated 4230, 34, 40, 43, 49, 50, 51, 52,
53, 54, 55, 56, 60, 67, 70 15 holes
ACIDIZED w/ 3000 gals 15% DS-30
FRACED w/ 27,000 L.O. & 27,000# sand
IP 2330 x 10R WPD

LEASE & WELL No. TODD 3007
FIELD TODD LOWER SAN ANDREAS

PLAINS PETROLEUM
415 W. Wall, Suite 2110
MIDLAND, TEXAS 79701

LOCATION T75, R36E
ELEV. KB 4166 BY LDG DATE 2/27/90
GL 4154



Tops: SA 3466
P₁ 4104
P₂ 4214

TD 4375

PBTD 4326

Well History

LAST TEST 3 BOX 80W

current configuration

4261' 2 3/8 Tbg

4225 3/4 rods

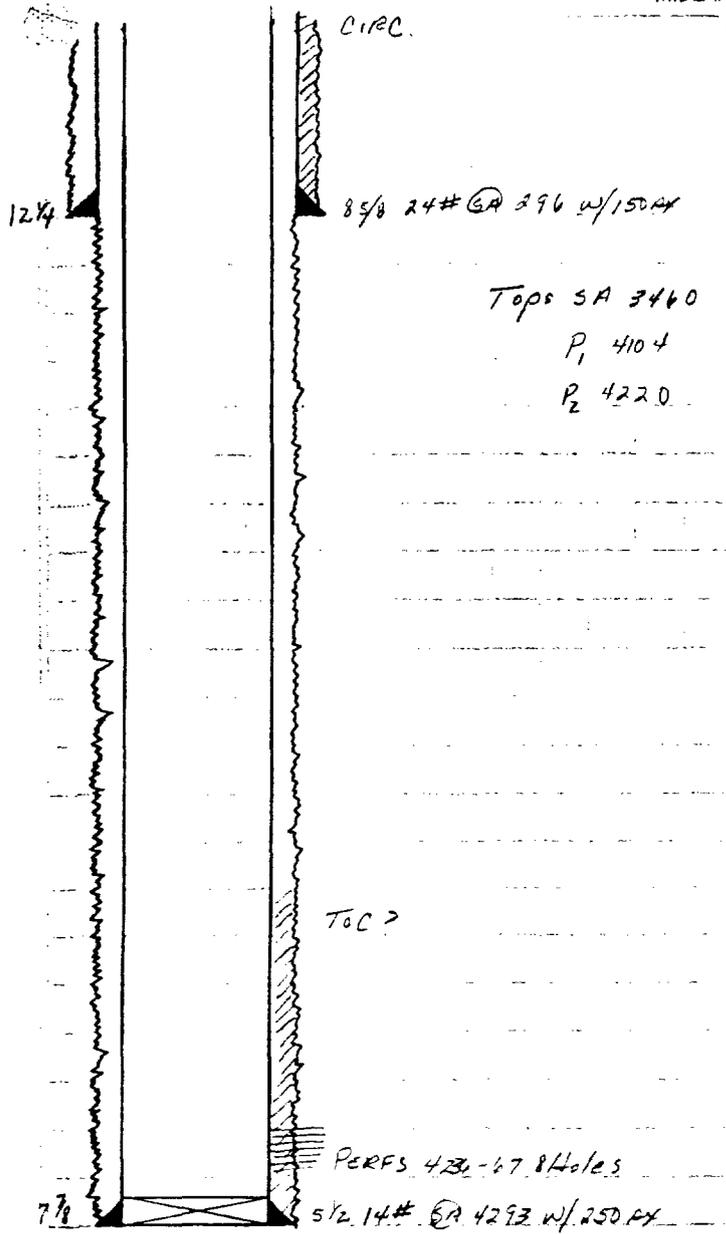
2x1 1/2 x 12' pump

Completion: 2-1/2" E8 PERF 4223, 35, 40, 44, 47
50, 51, 55, 58, 61, 63, 72 12 holes
ACIDIZED W/ 4000 GAL 15% NEEF
FRAC W/ 50,000 GAL L.O. & 41600# SAND
IP 42 BOX 17 BWX 35MCFD ISIP 1820

LEASE & WELL No. TODD 3010
FIELD TODD LOWER SAN ANDRES

PLAINS PETROLEUM
415 W. Wall, Suite 2110
MIDLAND, TEXAS 79701

1980 FS&EL SEC 30
LOCATION T73, R31, E Roosevelt Co.
Elev. KB 4151 BY SDO DATE 2/27/90
GL 4140



Tops SA 3460
P₁ 4104
P₂ 4220

Well History Originally Val state #1
11-20-87 Convert to WIW LAST TEST OBOX STBW
current configuration
4135' 2 3/4 pc tbg
5 1/2" A-D.I Pkr

Completion: 1-15-87 Perfs: 4236, 38, 44, 47, 51, 55,
63, 67 8 Holes
ACIDIZE w/3000 gal
FRAC'd w/ 30,000 gal 40 & 30,000 #
IP 125 BOX OBOX 36 MCF

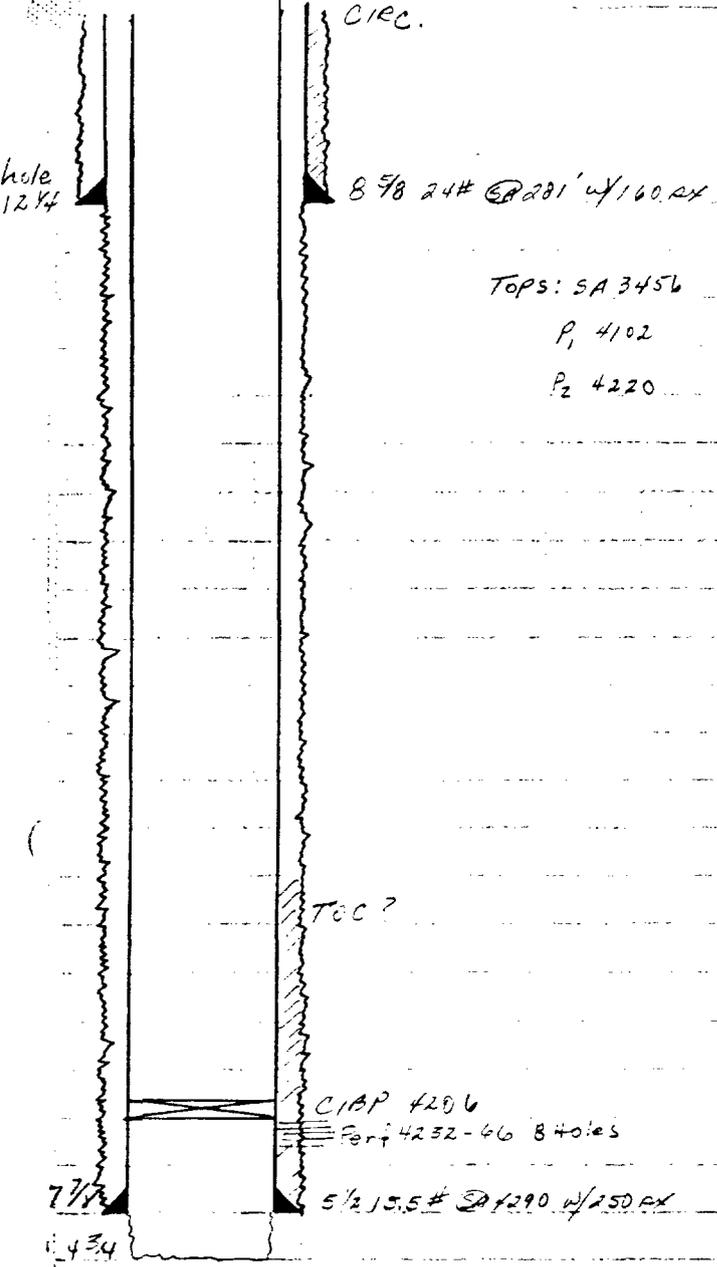
LEASE & WELL No. TODD 3012
FIELD TODD Lower San Andres

PLAINS PETROLEUM
415 W. Wall, Suite 2110
MIDLAND, TEXAS 79701

611 FWL 2' 1980 FSL Sec 30
LOCATION TTS, REGE Roosevelt Co.
Elev. KB 4157 BY JDO DATE 2/27/90
GL 4148

Well History Originally LIVAUDAIS Fed #2

- 7-6-77 SI
- 12-4-84 Drill out to 4305 & RTP
- 7-22-87 TAG PBD 4284 ACIDIZE w/500 gal
- 5-28-88 CONVERT to WIN LAST TEST 1-24-88 OBOX 736W
- 6-5-89 TA set CIBP 4206



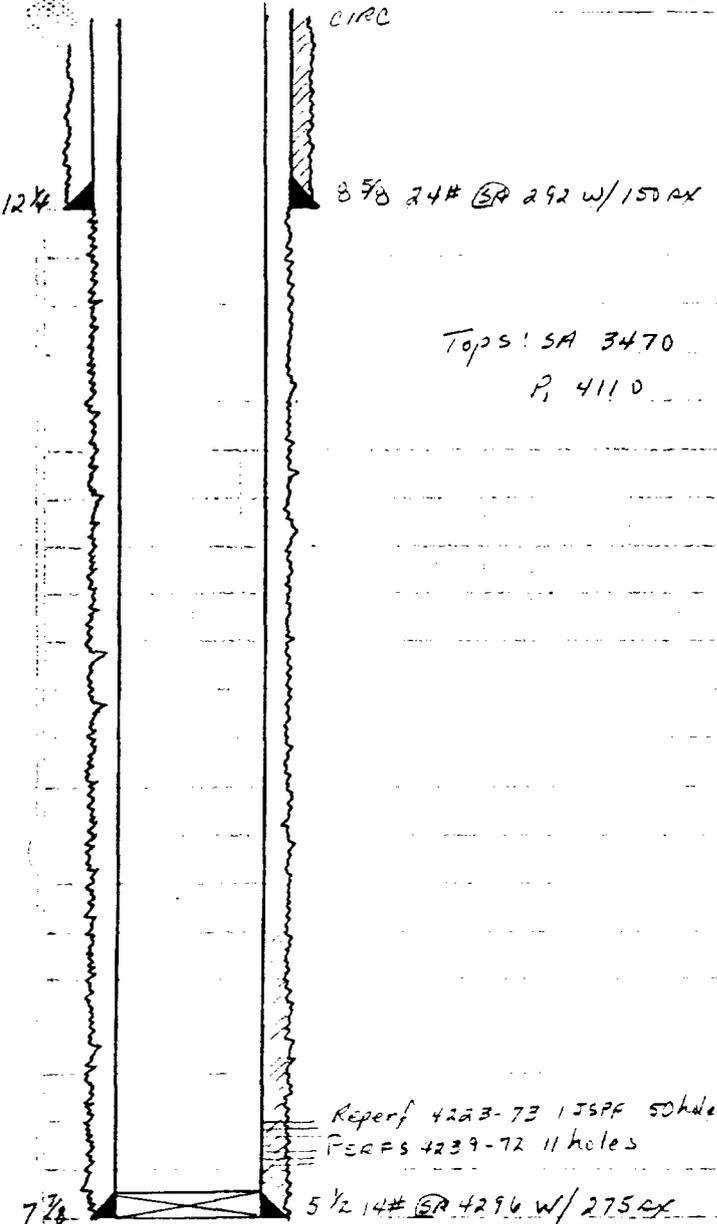
Completion: 10-2-66 Perfs. 4232, 33, 43, 48, 57,
58, 63, 66
ACIDIZED w/3000 gal DS-30
FRAC'd w/30,000 gal L.O. & 30,000 #
IP 125130 X 03W X 110MCFD

LEASE & WELL No. Todd 3016
FIELD Todd Lower SAN ANTONIO

PLAINS PETROLEUM
415 W. Wall, Suite 2110
MIDLAND, TEXAS 79701

660 FS DEL SEC 30

LOCATION T75, R36E Roosevelt Co.
ELEV. KB _____ BY SDO DATE 2/28/90
GL 4129



Well History Originally LIVAUDAIS Fed #5
10-4-84 C.O. & nperf 4223-73 1 JSPP 50 holes
ACIDIZE w/2000 gal 20% NEFE, 500 gal xylene
50 lb black MAX 2450 AIR 63PM

11-30-87 converted to WIW

TOPS: SA 3470
P, 4110

Current configuration

4036' 2 3/8 tub

5 1/2 Guiberson UNI-6 pkr.

Reperf 4223-73 1 JSPP 50 holes
PERFS 4239-72 11 holes

5 1/2 14# BR 4296 w/ 275 CX

TD 4296

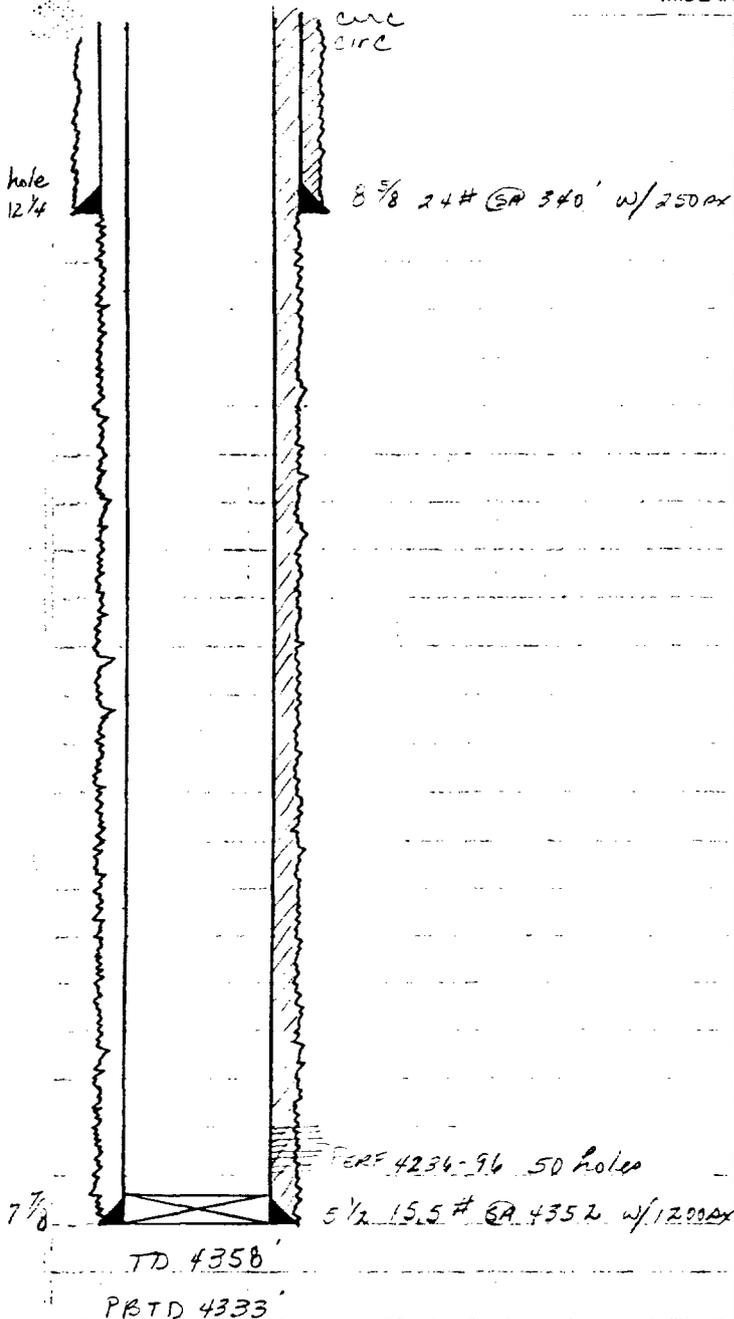
Completion: 1-16-68 Perfs 4239, 41, 43, 49, 52
55, 56, 60, 66, 71, 72 11 holes
Acidize w/3000 gal DS-30
FRAC'd w/30,000 gal L.O. 4'30,000 #

1980 FEL, 660 FSL SEC 30

LEASE & WELL No. TODD 3015
FIELD TODD Lower San Andres

PLAINS PETROLEUM
415 W. Wall, Suite 2110
MIDLAND, TEXAS 79701

LOCATION T75R36E Roosevelt Co
ELEV. KB 570 BY 570 DATE 2/28/90
GL 4144



Well History

- 10-17-84 convert to WIW
- 9-19-87 convert back to Producer TEST 12-87
OBX 54915W
- 5-17-88 convert back to WIW
- 9-7-88 TA - pulled all equipment

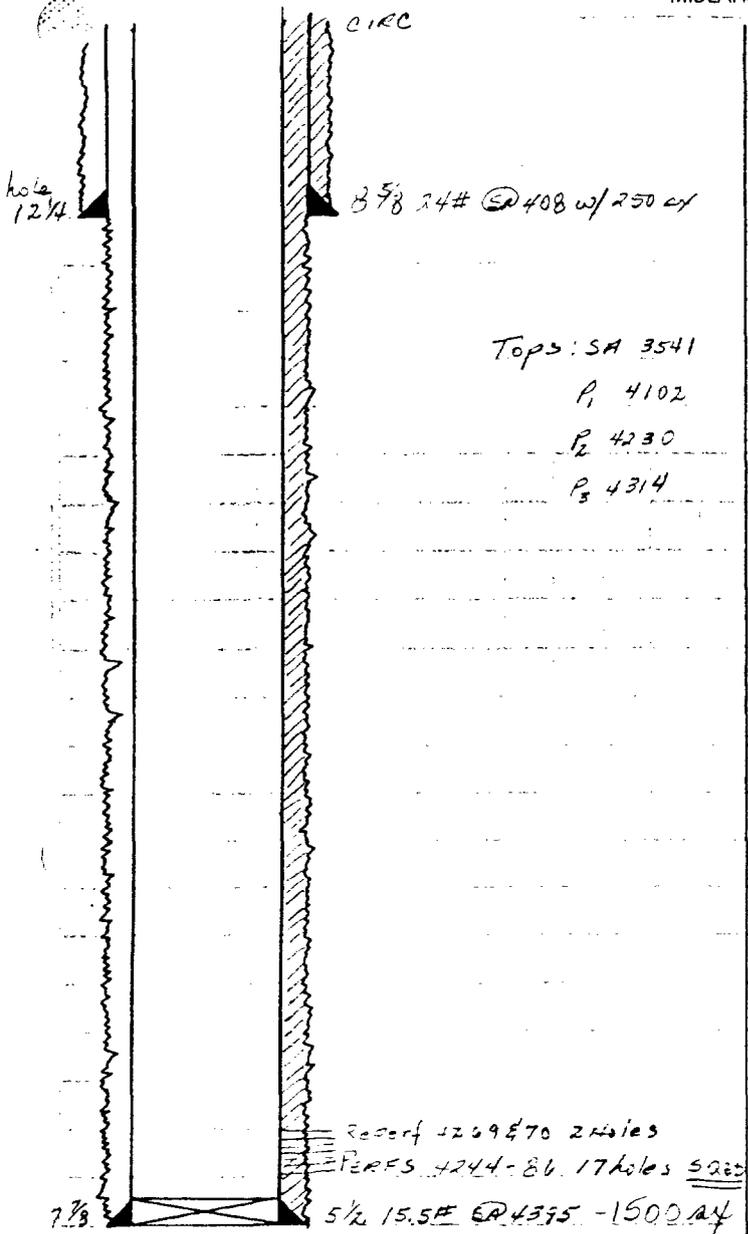
Completion: 12-29-83 Perfs 4236-96 50 holes
 ACID FRAC w/10,000 gal 28% HCl &
 12,000 # sand.
 IP 23 BX 60 BX 30MCFD

LEASE & WELL No. TODD 3011
FIELD TODD Lower San Andres

PLAINS PETROLEUM
415 W. Wall, Suite 2110
MIDLAND, TEXAS 79701

1780 FSL & 1980 FWL Sec. 30

LOCATION T75, R36E Roosevelt Co.
ELEV. KB 4158 BY LDO DATE 2/27/90
GL 4146



Tops: SA 3541

P₁ 4102

P₂ 4230

P₃ 4314

CURRENT CONFIGURATION

4291' 2 7/8 J-55

2050' 7/8 rods

2225 3/4 rods

TD 4400'

PBTD 4355'

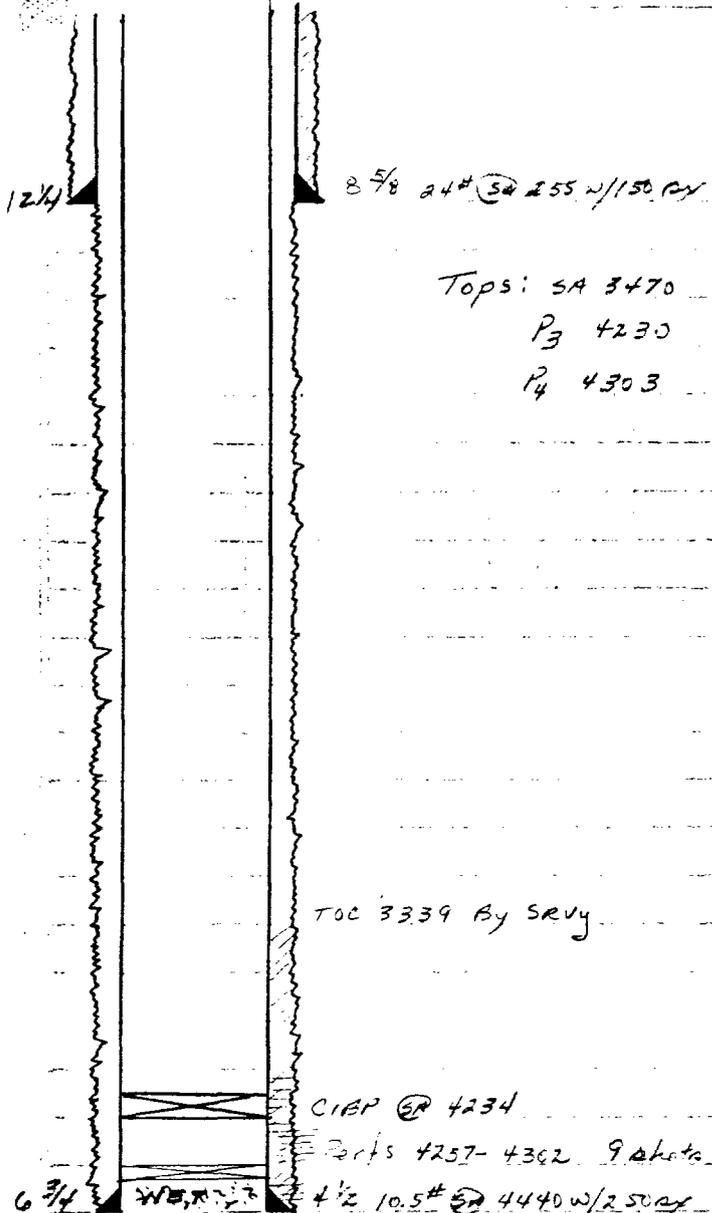
Completion: 4-27-88 PERFS 4244, 46, 48, 51,
54, 56, 58, 60, 61, 65, 69, 70, 71, 74,
79, 82, 86
ACIDIZE W/ 5000 gal 15% NEFE
IP 350 BW

LEASE & WELL No. TODD 3103
FIELD TODD SAN ANDREAS UNIT

PLAINS PETROLEUM
415 W. Wall, Suite 2110
MIDLAND, TEXAS 79701

330 FNL E' 1650 FNL SEC 51

LOCATION T2S, R36E Roosevelt Co
ELEV. KB _____ BY SDO DATE 3/1/90
GL 461



8 5/8 24# SA 255 w/150 PLY
Tops: SA 3470
P3 4230
P4 4303

TOC 3339 By SRVY
CIBP @ 4234
Ports 4257-4302 9 shots
4 1/2 10.5# SA 4440 w/250 PLY

TD 4440
PBTD 4354

4-9-65
Completion: Perforated 4257, 43, 47, 70, 74, 82, 90,
98, 4302 9 shots
Acidized 2000 gal 15%
Frac'd 20,000 gal gelled L.O. 8' 20,000#
IP 60 B0 XSBWPD

Well History Originally Hobbs "R" State #1
Reentry of the McClellan #1

12-4-70 Frac'd w/40,000 gal gel w/ware Suzanne state
50,000 # 20-40 5' 10,000 # 10-20 #
EVAL 1/2 BOPD AWD 20 B0 X 20 B WPD

10-1-84 convert to WIW

6-6-87 SET CIBP 4234 5' TA

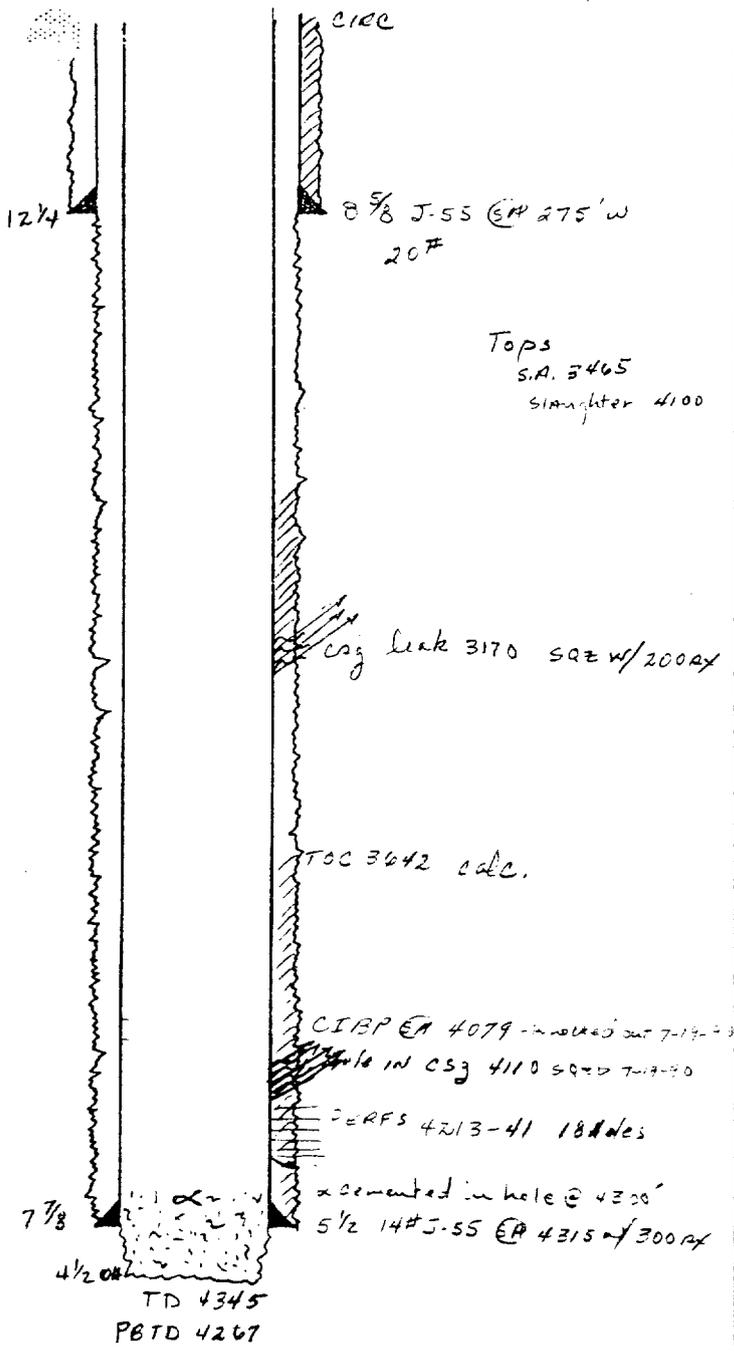
10.31.84

LEASE & WELL No. TODD Unit 2515
 FIELD TODD San Antonio Pool

PLAINS PETROLEUM
 415 W. Wall, Suite 2110
 MIDLAND, TEXAS 79701

330' FSL & 165' FEL
 LOCATION SEC 25-T7S-R35E
 ELEV. KB 4163 BY 100 DATE 2/23/90
 GL 4154

Well History Originally mark Fed. #5



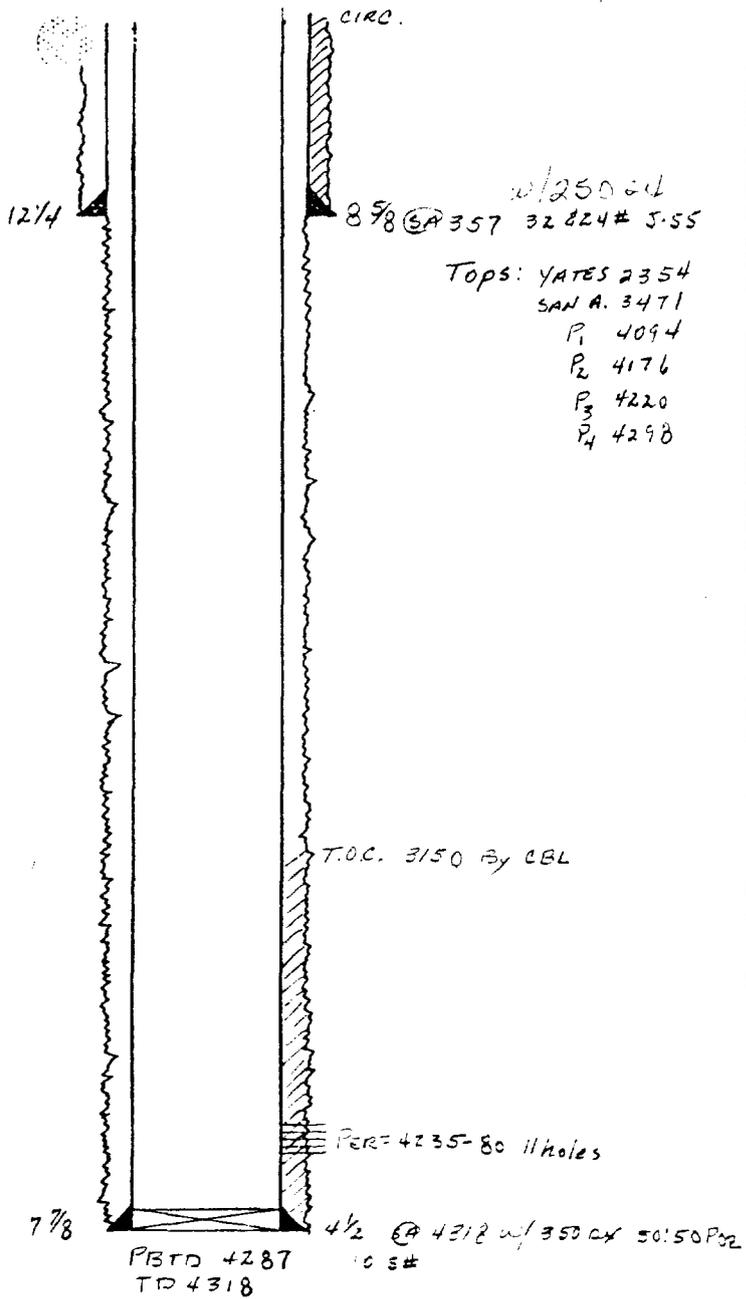
- 12/18/68 CONVERTED TO SWD. Deepened to 4340
- 12/71 SE
- 9/13/74 cut OFF Gibersonal shanty pkr & left in hole at 4300' - set another Giberson unipacker on top at 4100'
- 10/87 Clean out pkr at 4100'. set cement retainer at 4177 (below pkr & above fish) & squeeze w/ 2000# Isolate cog leak at 3170. set cement retainer at 3087 squeeze w/ 2250# CW/29.000 & 5000# cement D.O. 85' cut & CO TO 4274. Report 4213-41 w/18JS. Acidize w/ 5000 gal 15% max 2100# AIR 2.5 BPM ISIP 1000# RTI
- 4/6/89 Hole in csq 4110 set CIBP 4079' TA
- 7-19-90 Knucked out CIBP & squeezed hole Return to Injection 133 jts multistage Lockout @ 4179.90

Completion: CORED 4210-56
 9-6-65 Perf 4213, 15, 23, 25, 27, 32, 34, 38, 42, 45, 47, 59, 65, 70
 ACIDIZED 3500 gal MAX 4500#
 FRAC 20000 gal L.O. & 20,000 #
 10-22-65 Perf 4259, 65, 70
 Potential 3000X 8BWPD
 10/67 Tested 5B:PD
 10/66 Tested 2B: X TENX 107MCF

LEASE & WELL No. TODD 1915
FIELD LOWER TODD SPINAWAYS Pool

PLAINS PETROLEUM
415 W. Wall, Suite 2110
MIDLAND, TEXAS 79701

660FSL & 1980 FEL SEC 19
LOCATION T75-R306 Roosevelt Co NM
ELEV. KB 4168 BY SDC DATE 2/22/90
GL 4158



Tops: YATES 2354
SAN A. 3471
P₁ 4094
P₂ 4176
P₃ 4220
P₄ 4298

Well History Originally Skelly-Hobb Z #1
9/21/87 C.O. to 4286'
Well SI 11/1/88 OBox 013WPD

Currently Equipped: 4217' 2 3/8 Tbs NEW 1985
1575' 3/4, 2625' 5/8 rods
2 x 1 1/2 x 12 pump
202-136 UNIT

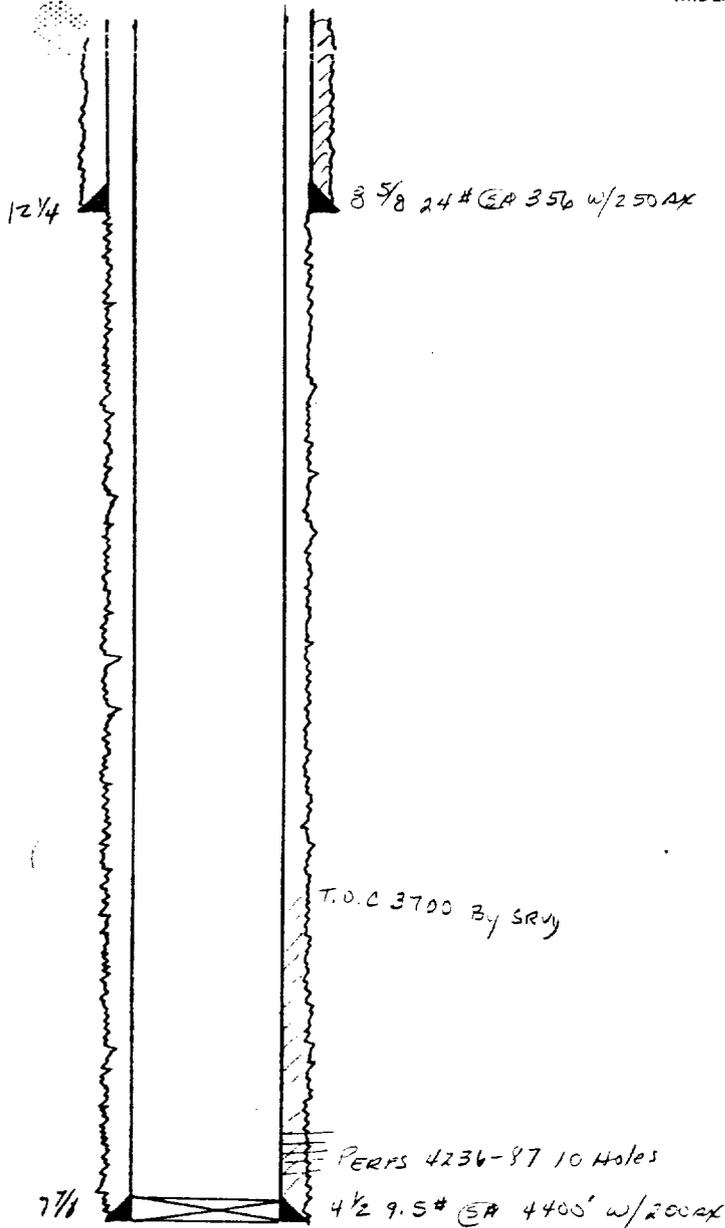
Completion: 7/29/67 Perf 4235, 38, 45, 51, 55,
61, 64, 68, 73, 77, 80
ACIDIZED w/750 gal BDA acid & Ball
sealers MAX P 2910. ISIP 1000
AIR 3.2 BPM
ACIDIZED w/3000 gal 28% HCl
MAX 3400 ISIP 1000 AIR 4.4 BPM
Potential 252 Box 7BW on 2 1/2" chd
FTP 275# 65MFPD
3/7/68 FRAC w/ 30,000 gal LO & 37,500 # 2 3/4"
MAX 3400 ISIP 1650 AIR 23.7 BPM
A/O 77 Box 1.5 BWPD

LEASE & WELL No. TODD 3602
FIELD TODD Lower Sandhills

PLAINS PETROLEUM
415 W. Wall, Suite 2110
MIDLAND, TEXAS 79701

990 FNL & 2310 FEL SEC 36

LOCATION TTS, R35E Roosevelt Co
ELEV. KB 100 DATE 3-90
GL 4185



Well History Originally Sun AY #1 N.M. STATE
4-7-66 Frac'd w/ 20,000 gal R.O. & 20,000 # SAND
MAX 3650 psi AIR 24 BPM

9-27-73 TA
11-20-84 RTP
5-8-86 TA
3-10-87 RTP
6-9-89 Convert to WIW LAST TEST OBOX 94BW

current configuration
4079' PC 2 3/8 tbg
4 1/2 x 2 3/8 AD-1 phr
6-26-90 convert to production
136 jt 2 7/8
168 3/4
2 1/2 x 2 X 12 pump

Completion: 1-22-65 Perfs 4236, 40, 49, 51, 55, 67,
72, 76, 83, 87
ACIDIZED w/ 2000 gal BDA
IP 144 BO X

LEASE & WELL No. TODD 3509
FIELD TODD Lower San Andres

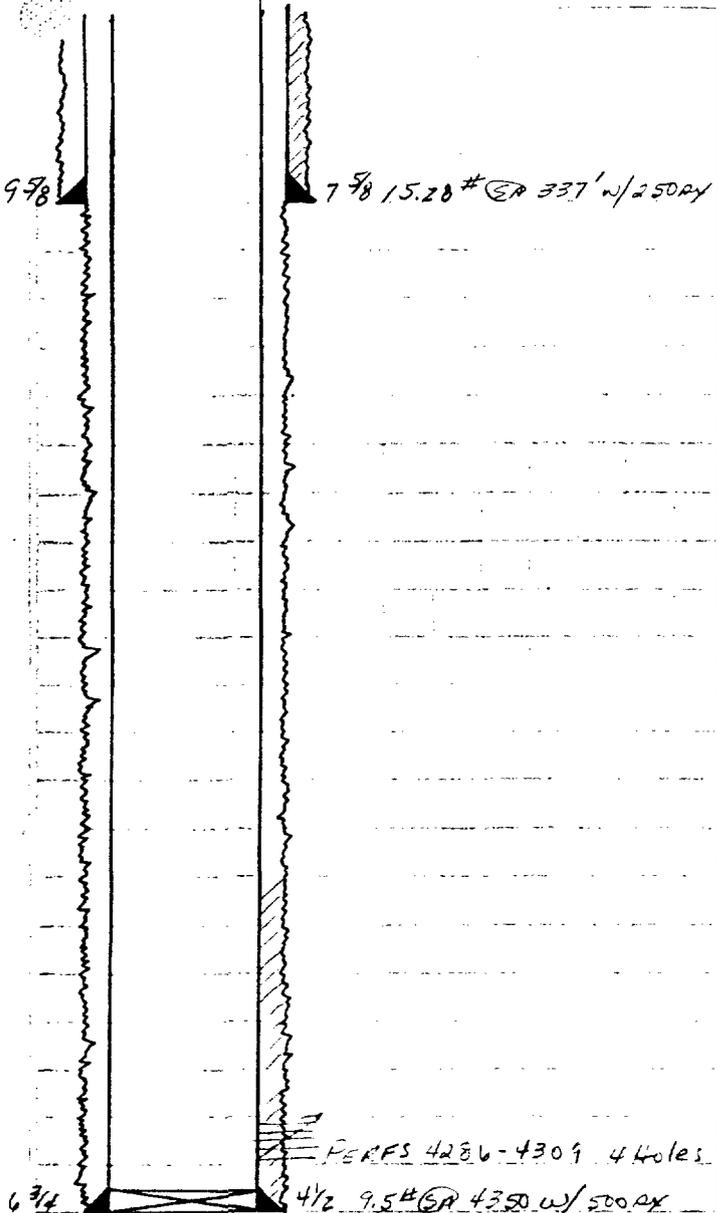
PLAINS PETROLEUM
415 W. Wall, Suite 2110
MIDLAND, TEXAS 79701

660 FEL § 1980 FSL Sec 35
LOCATION T-75R-35E Roosevelt Co.
ELEV. KB 4181 BY ADD DATE 5-20-9
GL #170

Well History Original Texas NM STATE CT#5

12-21-66 TA

NO EQUIPMENT



TD 4350

PBSTD 4317

Completion: 9/21/66 Perf 4286, 94, 4301, 09,
4 Holes

ACIDIZED w/ 250 gal 15% BDA

IP 1 BOX MSWX 1 MCFD

SQUEEZED w/ VIS-SQUEEZE 61000 gal L.O. w/

3 gal demulsifier. ACIDIZED w/ 500 gal

Perfs SQUEEZED.

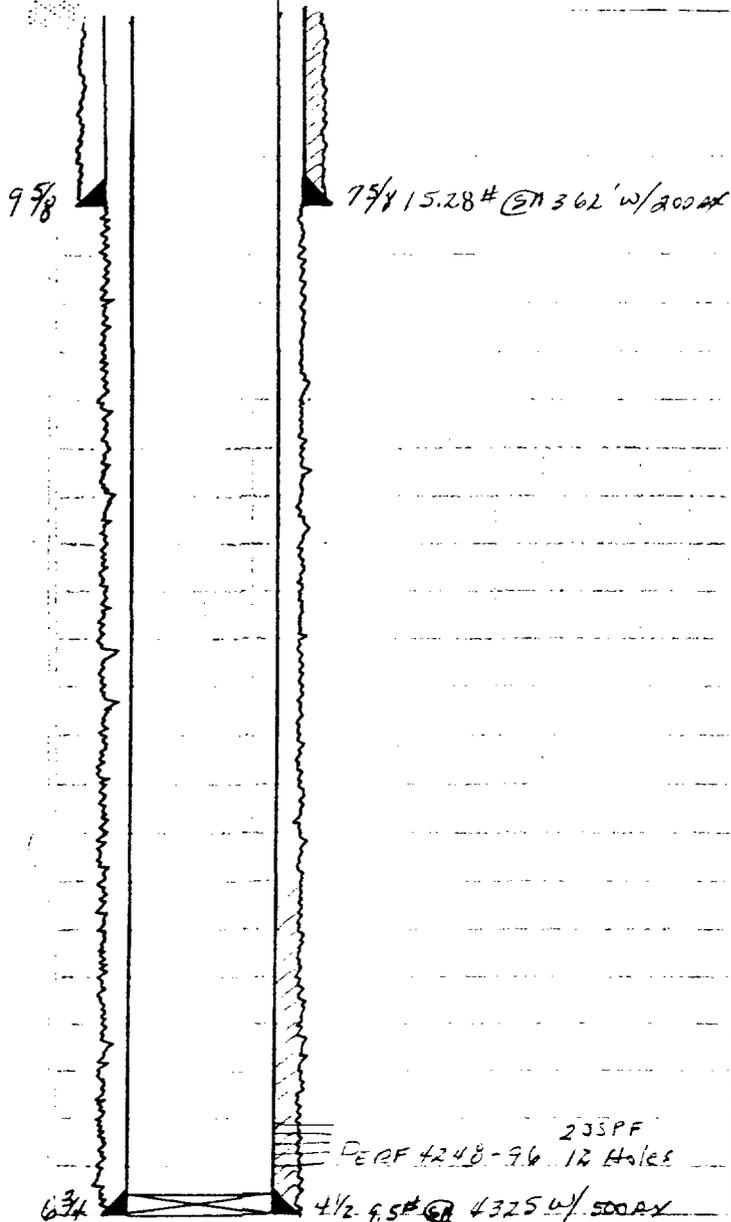
Csg Notched @ 4286' ACIDIZED w/ 250 gal

LEASE & WELL No. TODD 3507
FIELD TODD Lower SAN ANDRÉS

PLAINS PETROLEUM
415 W. Wall, Suite 2110
MIDLAND, TEXAS 79701

1980 FNEEL SEC 35

LOCATION 7-5 35-E Roosevelt Co.
ELEV. KB 4186 BY SD DATE 3-20-90
GL 4176



Well History Originally Texas NM state CT#4

6-22-71 Frac'd 158 BBls L.O., 138 BBls galled Kerosene
1600# SMD; Refrac'd w/4000gal L.O., 8800 gal
Kerosene w/15,500# SMD
MAX 4700 psi AIR 22BPM ISEP 2000 #

11-89 Last TEST 2130 X 25 BW

current configuration

4214' 2 3/8 5-55

1975' 3/4 rods

2200' 7/8 rods

2x1 1/4 x 12' pump

T.D. 4325

P.B.T.D. 4324

Completion: 4-7-67 Perf 4248, 58, 66, 74, 87, 96
12 Holes

ACIDIZED w/2000 GAL

I P 111 BOX 5 BW X 23 MCFD

COMPANY REMARKS

WRS COMPLETION REPORT

COMPLETIONS SEC 29 TWP 7S RGE 36E
PI# 30-T-0006 10/31/88 30-041-20830-0000 PAGE 1

NMEX ROOSEVLT * 2180FNL 1980FEL SEC SW NE
STATE COUNTY FOOTAGE SPOT

READ & STEVENS INC D DO
OPERATOR WELL CLASS INIT FIN

1 TENNECO FEDERAL
WELL NO. LEASE NAME

4153KB 4142GR TODD
OPER ELEV FIELD/POOL/AREA

API 30-041-20830-0000
LEASE TYPE NO. PERMIT OR WELL I.D. NO.

06/30/1988 10/02/1988 ROTARY OIL
SPUD DATE COMP. DATE TYPE TOOL STATUS

4400 SN ADR L SITTON DRLG CO 1 RIG SUB 10
PROJ. DEPTH PROJ. FORM CONTRACTOR

DTD 4450 PB 4406 FM/TD SN AN P3
DRILLERS T.D. LOG T.D. PLUG BACK TD OLD T.D. FORM T.D.

LOCATION DESCRIPTION

4 MI NE MILNESAND, NM

CASING/LINER DATA

CSG 8 5/8 @ 2000 W/ 970 SACKS

MIDLAND GIC

CSG 5 1/2 @ 4448 W/ 850 SACKS

TUBING DATA

TBG 2 3/8 AT 4341

INITIAL POTENTIAL

IPP 29BOPD 70BW 24HRS
SN AN P2 PERF W/ 40/IT 4274- 4326 GROSS
PERF 4274- 4281 4285- 4298 4303- 4311 4318- 4326
ACID 4274- 4326 2400GALS
15% NEFE
SWFR 4274- 4326 60000GALS 100000LBS SAND ADDTVGELA

X-LINK FRESH
GIY 29.0
FIELD

/RESERVOIR
/SAN ANDRES L

GOR TSTM

CONTINUED IC# 300417001088

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Petroleum
Information Corporation

Petroleum Information

BB a company of
The Dun & Bradstreet Corporation

PI-WRS-C
Form No:

Roosevelt

COMPLETIONS SEC 29 TWP 7S RGE 36E
PI# 30-T-0006 10/31/88 30-041-20830-0000 PAGE 2

READ & STEVENS INC D DO
1 TENNECO FEDERAL

TYPE	FORMATION	LTH	TOP DEPTH/SUB	BSE DEPTH/SUB
LOG	SN AN P2		4267 -125	
LOG	SN AN P3		4356 -214	

SUBSEA MEASUREMENTS FROM GR

LOGS AND SURVEYS /INTERVAL, TYPE/

LOGS	GR	DLL	MSFL
LOGS	CNL	LDT	CBL
LOGS	VD	CET	

DRILLING PROGRESS DETAILS

READ & STEVENS INC
BOX 1518
ROSWELL, NM 88201
505-622-3770
LOC/1988/
PREP MIRT

04/13
07/06

MIDLAND GIC

07/13 DRLG BELOW 4000
08/02 4450 TD, WOCT
08/02 DEVIATION SURVEYS @ 440 (3/4 DEG), 933 (1/4 DEG)
1429 (1/2 DEG), 1899 (1/2 DEG), 1962 (1/2 DEG),
2434 (1/2 DEG), 2904 (1/2 DEG), 3404 (3/4 DEG),
3874 (1 DEG), 4371 (1 DEG), 4450 (1 DEG)
TOTAL DISPLACEMENT 50.11 FT @ 4450
08/23 4450 TD, TSTG
09/12 4450 TD, PB 4406, COMPLETING
10/13 4450 TD, PB 4406, WOCT
10/24 LOCAL CALL: PI MARKER 4020
TD REACHED 07/20/88 RIG REL 07/20/88
10/24 4450 TD, PB 4406
COMP 10/2/88, IPP 29 BO, 70 BWP, GOR TSTM
GTY 29
PROD ZONE - SAN ANDRES L 4274-4326
NO CORES OR DSTS RPTD

W1088J BHC/SON/GR/C

13

COUNTY ROOSEVELT FIELD Todd STATE NM 30-041-20089

OPR FRANKLIN, ASTON & FAIR, INC. MAP

6 Livaudais-Federal

Sec 30, T-7-S, R-36-E CO-ORD ✓

660' FNL, 660' FEL of Sec.

Spd 6-16-68 CLASS EL 4163E

Cmp 12-8-68

	FORMATION	DATUM	FORMATION	DATUM
CSG & SX - TUBING 8 5/8" at 293' w/150 sx 5 1/2" at 4306' w/250 sx				
LOGS EL GR RA IND HC A				
	TD 4306'			

PLUGGED & ABANDONED

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CONT PROP DEPTH 4300' TYPE
DATE

F.R. 6-20-68
PD 4300' (Lower San Andres)
(Orig. Abandoned Location 4-8-68; 1980' FNL,
660' FEL of Sec.)

6-24-68	Drlg. 4204'
7-1-68	TD 4306'; Prep Perf
7-8-68	TD 4306'; Prep Frac Perf 4232-86' w/11 shots Acid (4232-86') 3000 gals Swbd & Flwd load
7-15-68	TD 4306'; Ppg load Frac (4232-86') 30,000 gals oil + 30,000# sd
7-22-68	TD 4306'; Ppg load
7-29-68	TD 4306'; Ppg load
8-5-68	TD 4306'; Ppg load
8-12-68	TD 4306'; Ppg load
8-19-68	Ppd 25 BLO in 48 hrs TD 4306'; Ppg load

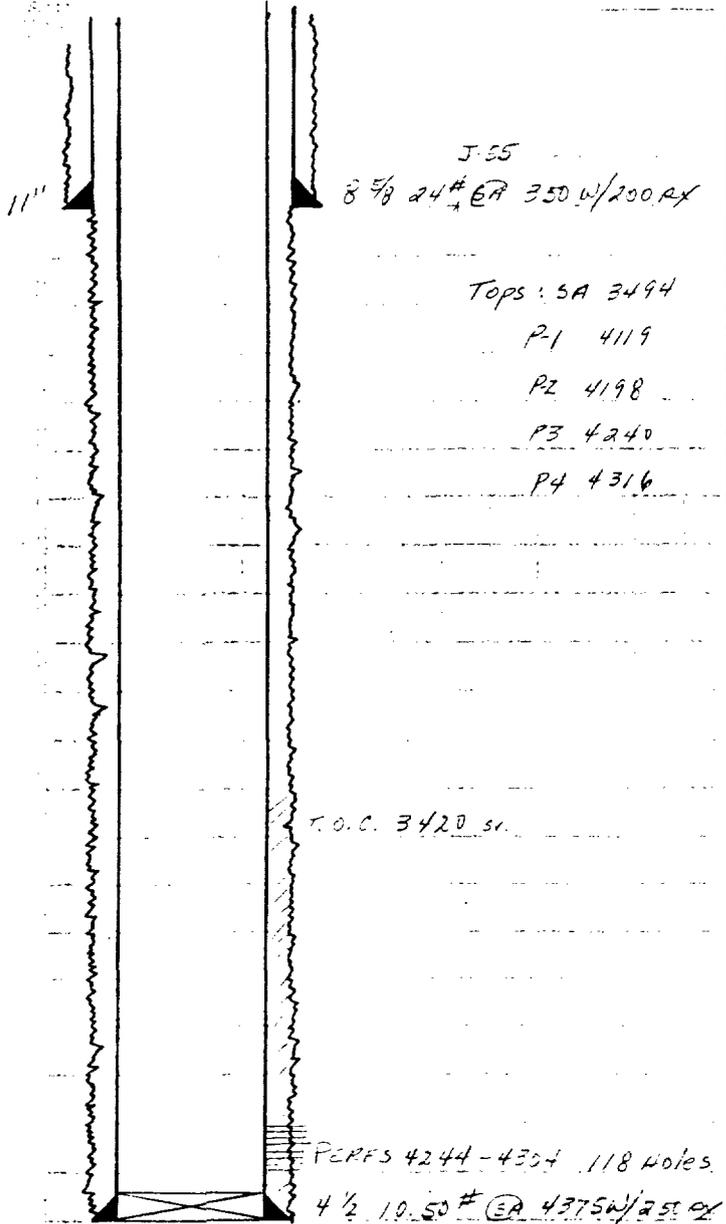
ROOSEVELT Todd NM Sec 30,T7S,R36E
FRANKLIN, ASTON & FAIR, INC. 6 Livaudais-Federal Page #2

8-26-68	TD 4306'; Ppg load
9-3-68	TD 4306'; Ppg load
9-9-68	TD 4306'; Ppg load
9-23-68	TD 4306'; Ppg load
9-30-68	TD 4306'; Ppg load
10-7-68	TD 4306'; Ppg load (Final Posting)
12-30-68	TD 4306'; PLUGGED & ABANDONED Did not recover load
1-2-69	COMPLETION REPORTED

LEASE & WELL No. Todd 3105
FIELD Todd Lower San Andres Cliff

PLAINS PETROLEUM
415 W. Wall, Suite 2110
MIDLAND, TEXAS 79701

1980 FNL & GIL FNL Sec. 31
LOCATION TTS, R36E Roosevelt Co.
Elev. KB 4157 BY SDO DATE 3-8-90
GL _____



Well History Originally Hobbs "R" state #2

10-8-81 PERF: 4244-4304 w/ JSPF 60 Holes

ACIDIZED w/ 500 gal xylene & 1500 gal 20% NEFE w/
SALT Block 2600# MAX AIR 2.4 BPM ISIP 1900#

9-3-86 TA

4-15-88 RTP

6-13-89 CONVERT TO WIW LAST TES 0.130 X 1.5 BWPD

CURRENT CONFIG: 4031' PC 2 3/8" TBG 4 1/2" AD-1

5 5/16 65

TD 4375

PPTD 4364

Completion: 6/24/65 Perfs: 4259, 62, 65, 77, 79

84, 92, 94, 4300, 10 Holes

ACIDIZED w/ 2000 gal 15% HCl

Frac'd w/ 20,000 gal L.O. & 20,000# SMD

Perfo 4259-60, 62-63, 67-68, 71-72, 76-80,

84-85, 91-92, 94-95, 4300-C1

48 Holes 4SFF

I.P. 15 BOX 2 BW



PLAINS
PETROLEUM
OPERATING
COMPANY

July 2, 1990

Texaco USA
P. O. Box 46513
Denver, Colorado 80201

Certified Receipt No. P-555-780-068

Re: Todd Lower San Andres Unit
Todd San Andres Assoc.
Roosevelt County, New Mexico
Division Order No. R-6677

Gentlemen:

In accordance with the regulations of the Oil Conservation Division you as an offset operator of subject unit are hereby notified that Plains Petroleum Operating Company is making application for expansion of the referenced project. Enclosed is an "Application for Authorization to Inject" and all required attachments. Objections or requests for hearing must be filed with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within fifteen (15) days.

Sincerely,

PLAINS PETROLEUM OPERATING CO.

Bonnie Husband
Engineering Tech.

Enclosures



PLAINS
PETROLEUM
OPERATING
COMPANY

July 2, 1990

Amoco Production Company
P. O. Box 3092
Houston, Texas 77253

Certified Receipt No. P-555-780-069

Re: Todd Lower San Andres Unit
Todd San Andres Assoc.
Roosevelt County, New Mexico
Division Order No. R-6677

Gentlemen:

In accordance with the regulations of the Oil Conservation Division you as an offset operator of subject unit are hereby notified that Plains Petroleum Operating Company is making application for expansion of the referenced project. Enclosed is an "Application for Authorization to Inject" and all required attachments. Objections or requests for hearing must be filed with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within fifteen (15) days.

Sincerely,

PLAINS PETROLEUM OPERATING CO.

Bonnie Husband
Engineering Tech.

Enclosures



PLAINS
PETROLEUM
OPERATING
COMPANY

July 2, 1990

Fina Oil & Chemical
P. O. Box 2159
Dallas, Texas 75221

Certified Receipt No. P-555-780-070

Re: Todd Lower San Andres Unit
Todd San Andres Assoc.
Roosevelt County, New Mexico
Division Order No. R-6677

Gentlemen:

In accordance with the regulations of the Oil Conservation Division you as an offset operator of subject unit are hereby notified that Plains Petroleum Operating Company is making application for expansion of the referenced project. Enclosed is an "Application for Authorization to Inject" and all required attachments. Objections or requests for hearing must be filed with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within fifteen (15) days.

Sincerely,

PLAINS PETROLEUM OPERATING CO.

Bonnie Husband
Engineering Tech.

Enclosures



PLAINS
PETROLEUM
OPERATING
COMPANY

July 2, 1990

Yates Petroleum
P. O. Box 1933
Roswell, New Mexico 88201

Certified Receipt No. P-555-780-071

Re: Todd Lower San Andres Unit
Todd San Andres Assoc.
Roosevelt County, New Mexico
Division Order No. R-6677

Gentlemen:

In accordance with the regulations of the Oil Conservation Division you as an offset operator of subject unit are hereby notified that Plains Petroleum Operating Company is making application for expansion of the referenced project. Enclosed is an "Application for Authorization to Inject" and all required attachments. Objections or requests for hearing must be filed with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within fifteen (15) days.

Sincerely,

PLAINS PETROLEUM OPERATING CO.

Bonnie Husband
Engineering Tech.

Enclosures



PLAINS
PETROLEUM
OPERATING
COMPANY

July 2, 1990

Sunray Oil Company
5750 Pineland, Suite 320
Dallas, Texas 75231

Certified Receipt No. P-555-780-072

Re: Todd Lower San Andres Unit
Todd San Andres Assoc.
Roosevelt County, New Mexico
Division Order No. R-6677

Gentlemen:

In accordance with the regulations of the Oil Conservation Division you as an offset operator of subject unit are hereby notified that Plains Petroleum Operating Company is making application for expansion of the referenced project. Enclosed is an "Application for Authorization to Inject" and all required attachments. Objections or requests for hearing must be filed with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within fifteen (15) days.

Sincerely,

PLAINS PETROLEUM OPERATING CO.

Bonnie Husband
Engineering Tech.

Enclosures



PLAINS
PETROLEUM
OPERATING
COMPANY

July 2, 1990

Read and Stevens
P. O. Box 3098
Midland, Texas 79702

Certified Receipt No. P-555-780-073

Re: Todd Lower San Andres Unit
Todd San Andres Assoc.
Roosevelt County, New Mexico
Division Order No. R-6677

Gentlemen:

In accordance with the regulations of the Oil Conservation Division you as an offset operator of subject unit are hereby notified that Plains Petroleum Operating Company is making application for expansion of the referenced project. Enclosed is an "Application for Authorization to Inject" and all required attachments. Objections or requests for hearing must be filed with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within fifteen (15) days.

Sincerely,

PLAINS PETROLEUM OPERATING CO.

Bonnie Husband
Engineering Tech.

Enclosures



P L A I N S
P E T R O L E U M
O P E R A T I N G
C O M P A N Y

July 2, 1990

Holly Energy
2600 Diamond Shamrock Tower
Lock Box 25
717 N. Harwood St.
Dallas, Texas 75236

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Affidavit of Publication

LEGAL NOTICE

This shall constitute notice to all the world that Plains Petroleum Operating Company (415 W. Wall, Suite 2110, Midland, Texas 79701, Attention Bonnie Husband, telephone number (915) 683-4434) intends to convert the following wells from producing or temporarily abandoned status to injection service for the purpose of expanding the existing waterflood project, the Todd Lower San Andres Unit, located in Township 7 & 8 South, Range 35 & 36 East, Roosevelt County, New Mexico.

Well No. 11-K (3011) Section 30
Well No. 11-K (2911) Section 29.

Well No. 15-O (2515) Section 25
Well No. 7-G (3007) Section 30.

Well No. 3-C (3003) Section 30
Well No. 11-K (3111) Section 31.

Well No. 15-O (1915) Section 19
Well No. 8-H (2508) Section 25.

Water will be injected into the P2 zone of the San Andres formation between the logged depths of 4213' and 4317' at rates of approximately 300 BWPD/PW and at maximum wellhead pressure of 1300-1600 psi.

Interested parties must file objections or requests for hearing with the Oil Conservation Division, Box 2088, Santa Fe, New Mexico 87501 within fifteen (15) days.

Published in the Portales News-Tribune October 5, 12, 19, 1990. Legal #1401.

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I, Marshall Stinnett
Business Manager of

THE PORTALES NEWS-TRIBUNE

a newspaper of general paid circulation and entered under second class postal privilege in Roosevelt County, published daily, (except Saturday) at Portales, New Mexico, for the fifty-two (52) consecutive weeks preceding this date, do solemnly swear that a copy of the above notice, as per clipping attached, was published weekly in the regular and entire issue of said

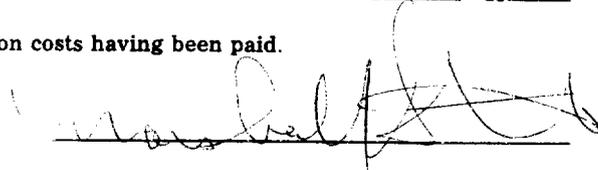
newspaper, and not in any supplement thereof for 3

consecutive weeks commencing with the issue dated _____

October 5, 19 90

and ending with the issue dated October 19, 19 90

All publication costs having been paid.



Subscribed and sworn to before me this 19th day of October 19 90

Notary Public

My commission expires 3/7/91 19 91



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
 OIL CONSERVATION DIVISION

HOBBS DISTRICT OFFICE

90 JUL 9 AM 9 52

7-5-90

GARREY CARRUTHERS
 GOVERNOR

POST OFFICE BOX 1980
 HOBBS, NEW MEXICO 88241-1980
 (505) 393-6161

OIL CONSERVATION DIVISION
 P. O. BOX 2088
 SANTA FE, NEW MEXICO 87501

RE: Proposed:

- MC _____
- DHC _____
- NSL _____
- NSP _____
- SWD _____
- WFX _____
- PMX _____

- Sec. 19 #15-0 19-7-36
- Sec. 25 # 8-H 25-7-35
- Sec. 25 #15-0 25-7-35
- Sec. 29 #11-K 29-7-36
- Sec. 30 #3-C 30-7-36
- Sec. 30 #7-D 30-7-36
- Sec. 30 #11-K 30-7-36
- Sec. 31 #11-K 31-7-36
- ~~Sec. 35 #9-D 35-7-35~~

Gentlemen:

I have examined the application for the:

Plains Petroleum Co. Todd Lower S.T. Unit
 Operator Lease & Well No. Unit S-T-R

and my recommendations are as follows:

- ~~Sec. 35 #9-E 35-7-35 WFX-578~~
- ~~Sec. 36 #5-E 36-7-35 WFX-578~~
- ~~Sec. 36 #10-F 36-7-35 WFX-578~~

OK for inf we had did not get inf. on
PEA WELLS

Yours very truly,

Jerry Sexton
 Supervisor, District 1

/ed