

POST OFFICE BOX 3388
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO

RECEIVED

Case 11347

JUL 3 1995

Oil Conservation Division

APPLICATION FOR AUTHORIZATION TO INJECT

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

II. Operator: Yates Petroleum Corporation

Address: 105 South 4th Street

Contact party: Pinson McWhorter Phone: (505) 748-1471

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-10349

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:

1. Proposed average and maximum daily rate and volume of fluids to be injected;
2. Whether the system is open or closed;
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: Pinson McWhorter Title Reservoir Engineering Supervisor

Signature: *Pinson McWhorter* Date: June 21, 1995

* 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.

C-108
Application for Authorization to Inject
Yates Petroleum Corporation
Chaves County, New Mexico

Quincy AMQ State #9
Unit G Sec. 12-8S-27E

- I. The purpose of these wells will be to reinject produced San Andres water into the San Andres formation as part of the Quincy "AMQ" San Andres Pressure Maintenance Project in Acme San Andres Southeast.
- II Operator: Yates Petroleum Corporation
105 South Fourth Street
Artesia, New Mexico 88210
Pinson McWhorter
(505) 748-1471
- III Well data: See Attachment A
- III This is an expansion of an existing project. The Quincy "AMQ" San Andres Pressure Maintenance Project was authorized by Division Order R-10349.
- V See attached map, Attachment B
- VI Area of Review Well Data: See Attachment C.
- VII
 1. The proposed average daily injection volume will be approximately 400 BWPD.
The maximum daily injection volume is estimated to be 500 BWPD.
 2. The system will be a closed system
 3. The proposed average injection pressure is estimated to be 440 psi.
The proposed maximum injection pressure is estimated to be 1700 psi.
 4. The source of injection water will be produced San Andres water from Acme San Andres Southeast
- VIII
 1. The injection zone will be the P1 of the San Andres. The San Andres dolomite is a finely crystalline, tan to light gray reservoir rock, sandy textured with porosity development consisting of small vugs and fractures. The average depth of the top of the P1 zone of the San Andres is 2140' with a thickness of approximately 55'. Fresh water zones overlay the San Andres at depths of approximately 300'.
- IX The proposed injection interval will not be stimulated further.
- X Well log data is on file with the Oil Conservation Division.
- XI No fresh water wells were located within one mile of the proposed injection well.
- XII Yates Petroleum has examined available geologic and engineering data and has found no evidence of open faults or other hydrologic connection between the injection zone and any underground source of drinking water.

ATTACHMENT A

QUINCY "AMQ" SAN ANDRES PRESSURE MAINTENANCE PROJECT

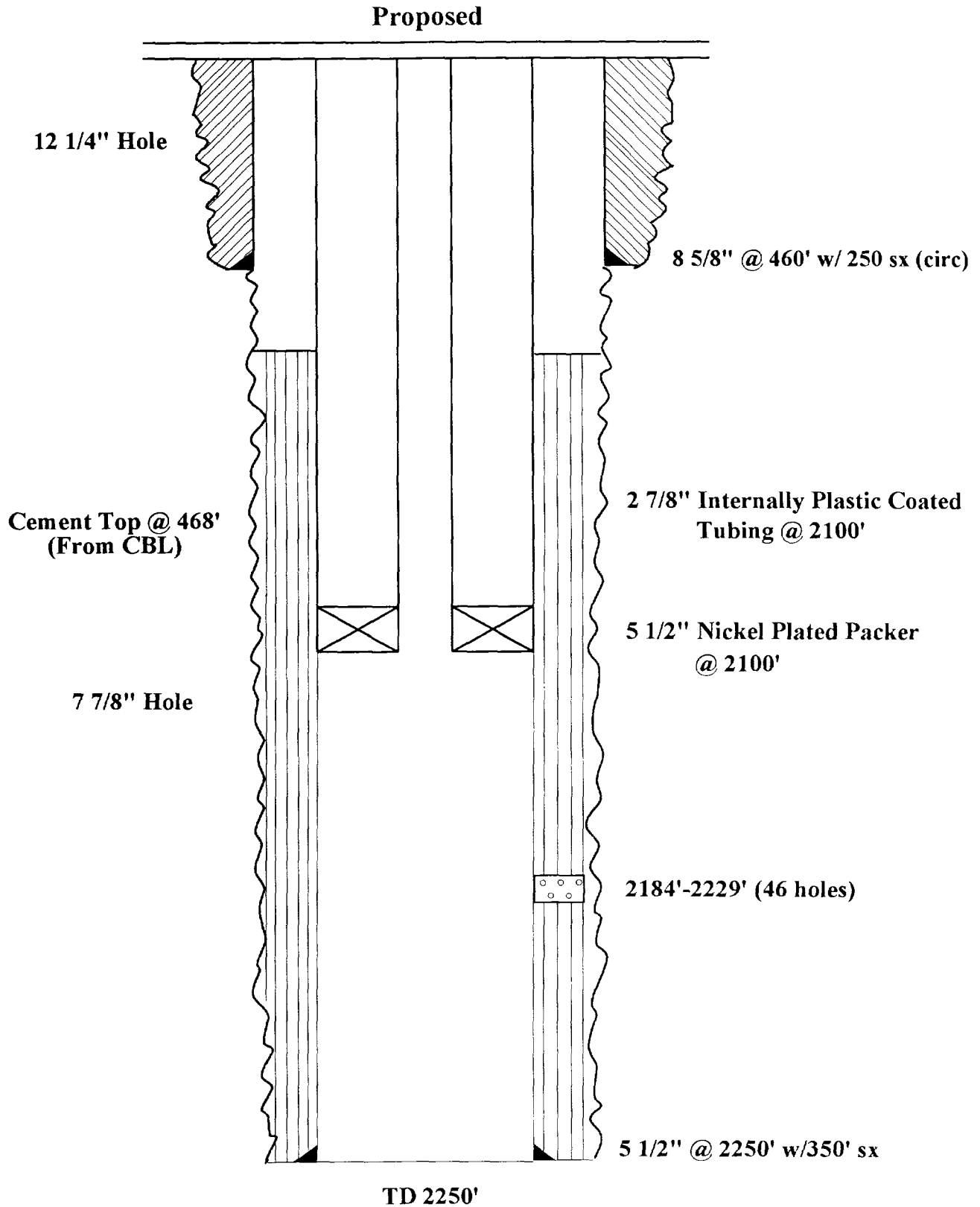
FORM C-108

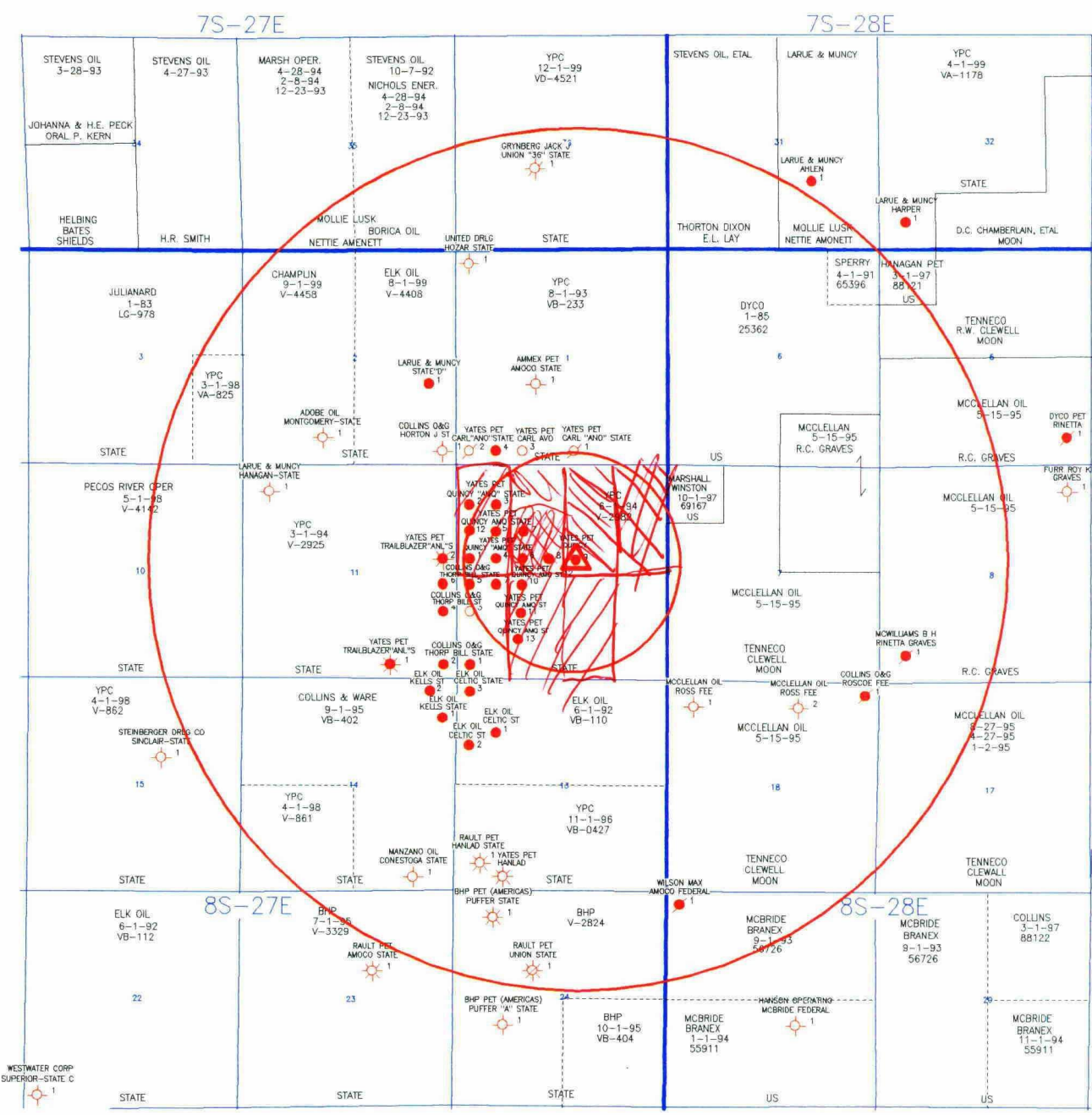
WELL DATA

<u>Lease Name & Location</u>	<u>Casing Tubing & Packer Data</u>	<u>Injection Formation</u>	<u>Injection Interval Perforation</u>	<u>1 - Next Higher Oil/Gas Zone</u>	<u>2 - Next Higher Oil/Gas Zone</u>
Quincy AMQ #9	8-5/8" @ 460 250 sx circulated	San Andres	2184' - 2229'	1 - None	
Unit G, Sec 12-8S-27E 2310' FNL & 2310' FEL (Originally Oil Well Test)	5-1/2" @ 2250' 350 sx (TOC 468' CBL)			2 - Ordovician	

Attachment A

**Quincy "AMQ" State #9
G 12 8S-27E
2310' FNL & 2310' FEL**





WESTWATER CORP
SUPERIOR-STATE C



PROPOSED INJECTION WELL

Yates Petroleum Corporation		
PROPOSED INJECTION WELL QUINCY #9 SEC. 12 8S-27E CHAVES COUNTY, NEW MEXICO		
		6/21/95
VMQUINCY.GPJ	Scale 1:48000.	

QUINCY 'AMQ' SAN ANDRES PRESSURE MAINTENANCE PROJECT

Form C-10B

Tabulation of Data on Wells Within Area of Review

WELL NAME	OPERATOR	TYPE	SPUD	COMPLETED	TOTAL DEPTH	PRODUCING ZONE	PERFORATIONS	CASING & CEMENTING INFORMATION
Quincy AMQ State #1 Unit E, Sec 12-8S-27E 2310' FNL & 330' FWL	Yates Petroleum Corporation	Oil	07/26/93	08/06/93	2195'	San Andres	2143' - 2186'	13-3/8" @ 10' w/cement to surface 8-5/8" @ 475' w/250 sx (circulated) 5-1/2" @ 2195' w/250 sx (TOC 1100' CBL)
Quincy AMQ State #3 Unit D, Sec 12-8S-27E 990' FNL & 990' FWL	Yates Petroleum Corporation	Oil	08/25/93	09/04/93	2220'	San Andres	2180' - 2199'	13-3/8" @ 6' w/cement to surface 8-5/8" @ 460' w/250 sx (circulated) 5-1/2" @ 2220' w/250 sx (TOC 1200' CBL)
Quincy AMQ State #4 Unit E, Sec 12-8S-27E 2310' FNL & 990' FWL	Yates Petroleum Corporation	Oil	01/13/95	01/27/95	2214'	San Andres	2150' - 2192'	13-3/8" @ 5' w/cement to surface 8-5/8" @ 448' w/280 sx (circulated) 5-1/2" @ 2214' w/350 sx (TOC 846' CBL)
Quincy AMQ State #5 Unit E, Sec 12-8S-27E 1650' FNL & 990' FWL	Yates Petroleum Corporation	Oil	01/18/95	02/01/95	2218'	San Andres	2157' - 2202'	13-3/8" @ 5' w/cement to surface 8-5/8" @ 447' w/250 sx (circulated) 5-1/2" @ 2218' w/300 sx (TOC 461' calc)
Quincy AMQ State #6 Unit F, Sec 12-8S-27E 2310' FNL & 1650' FWL	Yates Petroleum Corporation	Oil	02/08/95	02/21/95	2220'	San Andres	2154' - 2194'	8-5/8" @ 464' w/250 sx (circulated) 5-1/2" @ 2220' w/300 sx (TOC 463' calc)
Quincy AMQ State #7 Unit F, Sec 12-8S-27E 1650' FNL & 1650' FWL	Yates Petroleum Corporation	Oil	03/09/95	04/13/95	2225'	San Andres	2169' - 2197'	8-5/8" @ 460' w/250 sx (circulated) 5-1/2" @ 2225' w/350 sx (circulated)
Quincy AMQ State #8 Unit F, Sec 12-8S-27E 2310' FNL & 2310' FWL	Yates Petroleum Corporation	Oil	03/02/95	04/29/95	2230'	San Andres	2162' - 2114'	8-5/8" @ 478' w/250 sx (circulated) 5-1/2" @ 2230' w/350 sx (circulated)

QUINCY 'AMQ' SAN ANDRES PRESSURE MAINTENANCE PROJECT

Form C-108

Tabulation of Data on Wells Within Area of Review

WELL NAME	OPERATOR	TYPE	SPUD	COMPLETED	TOTAL DEPTH	PRODUCING ZONE	PERFORATIONS	CASING & CEMENTING INFORMATION
Quincy AMQ State #13 Unit N, Sec 12-8S-27E 990' FSL & 1550' FWL	Yates Petroleum Corporation	Oil	06/05/95	06/16/95	2205'	San Andres	2142' - 2192'	8-5/8" @ 447' w/250 sx (circulated) 5-1/2" @ 300 sx (TOC 550' CBL)
Quincy AMQ State #10 Unit K, Sec 12-8S-27E 2310' FSL & 1650' FWL	Yates Petroleum Corporation	Oil	04/24/95	05/05/95	2225'	San Andres	2148' - 2200'	13-3/8" @ 5' Cement to surface 8-5/8" @ 459' w/250 sx - (circulated) 5-1/2" @ 2225' w/300 sx (TOC 704' calc)
Quincy AMQ State #11 Unit K, Sec 12-8S-27E 1650' FSL & 1650' FWL	Yates Petroleum Corporation	Oil	04/30/95	05/13/95	2221'	San Andres	2144' - 2198'	13-3/8" @ 5' Cement to surface 8-5/8" @ 460' w/250 sx - (circulated) 5-1/2" @ 2221' w/350 sx (TOC 940' CBL)
Quincy AMQ State #12 Unit E, Sec 12-8S-27E 1650' FNL & 330' FWL	Yates Petroleum Corporation	Oil	04/18/95	05/05/95	2215'	San Andres	2152' - 2196'	13-3/8" @ 5' Cement to surface 8-5/8" @ 462' w/225 sx - (circulated) 5-1/2" @ 2215' w/300 sx (TOC 694' calc)
Bill Thorp State #3 Unit L, Sec 12-8S-27E 1650' FSL & 330' FWL	Collins Oil & Gas	Oil	06/28/93	08/09/93	2185'	San Andres	2128' - 2160'	8-5/8" @ 470' w/245 sx (circulated) 4-1/2" @ 2185' w/200 sx (TOC 1414' calc)
Bill Thorp State #5 Unit L, Sec 12-8S-27E	Collins Oil & Gas	Oil	08/19/93	08/26/93	2195'	San Andres	2137' - 2181'	8-5/8" @ 450' w/245 sx (circulated) 4-1/2" @ 2195' w/200 sx (TOC 1424' calc)
Bill Thorp State #7 Unit L, Sec 12-8S-27E 2310' FSL & 990' FWL	Collins Oil & Gas	Oil	02/02/95	02/13/95	2200'	San Andres	2138' - 2186'	8-5/8" @ 450' w/200 sx (circulated) 4 1/2" @ 2200' w/200 sx (TOC 1429' calc)
Carl ANO State #1 Unit O, 1-8S-27E 330' FSL & 2310' FE	Yates Petroleum Corporation	Oil	07/15/93	07/20/93 TA	2259'	San Andres	None	13-3/8" @ 8' w/Redi mix 8-5/8" @ 455' w/300 sx (circulated)