DIL CONSERVATION DIVISION STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87501

FORM C-108 Bevisage 7-1-81 50

APPLICA	ION FOR AUTHORIZATION TO INJECT  Purpose: Secondary Recovery Pressure Maintenance Disposal Storage			
I.	Application qualifies for administrative approval? X yesno			
II.	Operator: Cross Timbers Production Company			
	Address: P. O. Box 50847, Midland, Texas 79710			
	Contact party: Gary L. Markestad Phone: (915)682-8873			
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 R-3134			
٧.	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:			
	<ol> <li>Proposed average and maximum daily rate and volume of fluids to be injected;</li> <li>Whether the system is open or closed;</li> <li>Proposed average and maximum injection pressure;</li> <li>Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and</li> <li>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.).</li> </ol>			
VIII.	Attach appropriate geological data on the injection zone including appropriate lithologically, 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.			
х.	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: Gary   Markestad			
	Name: Gary L. Markestad  Title Operations Engineer  Signature: 4/26/91			

of the earlier submittal. Data submitted in original application. Division Order R-3134

## 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.

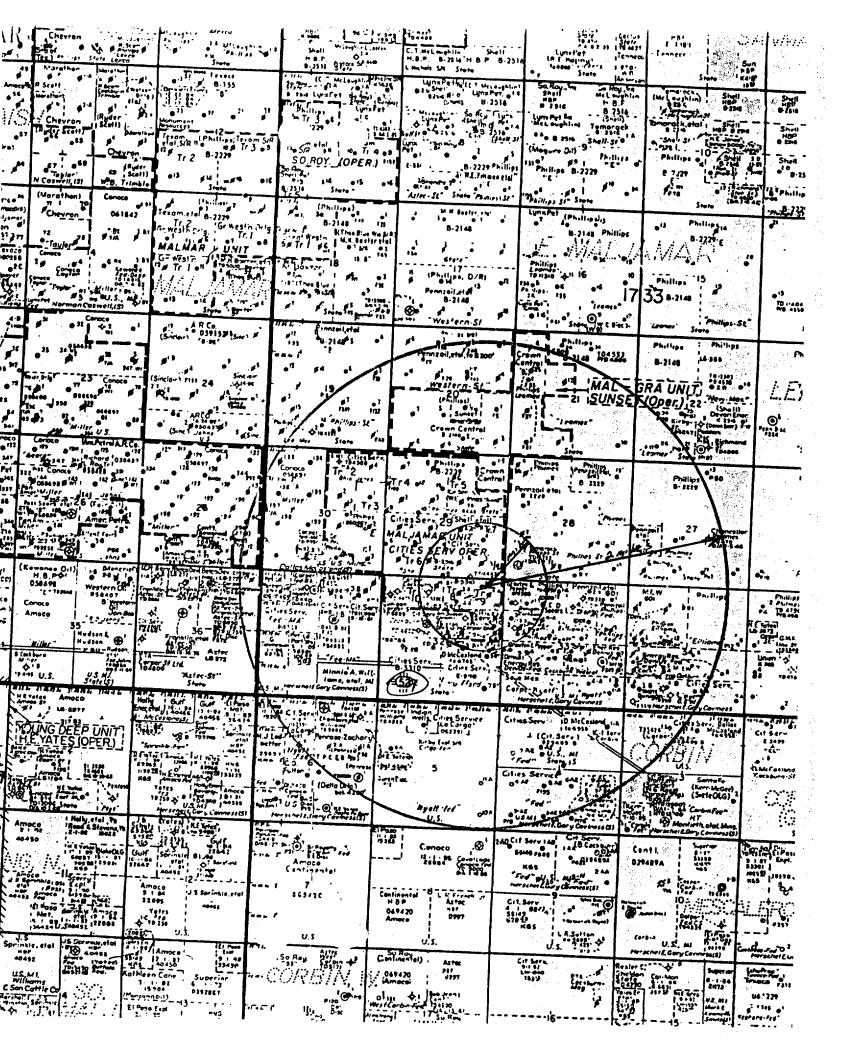
NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

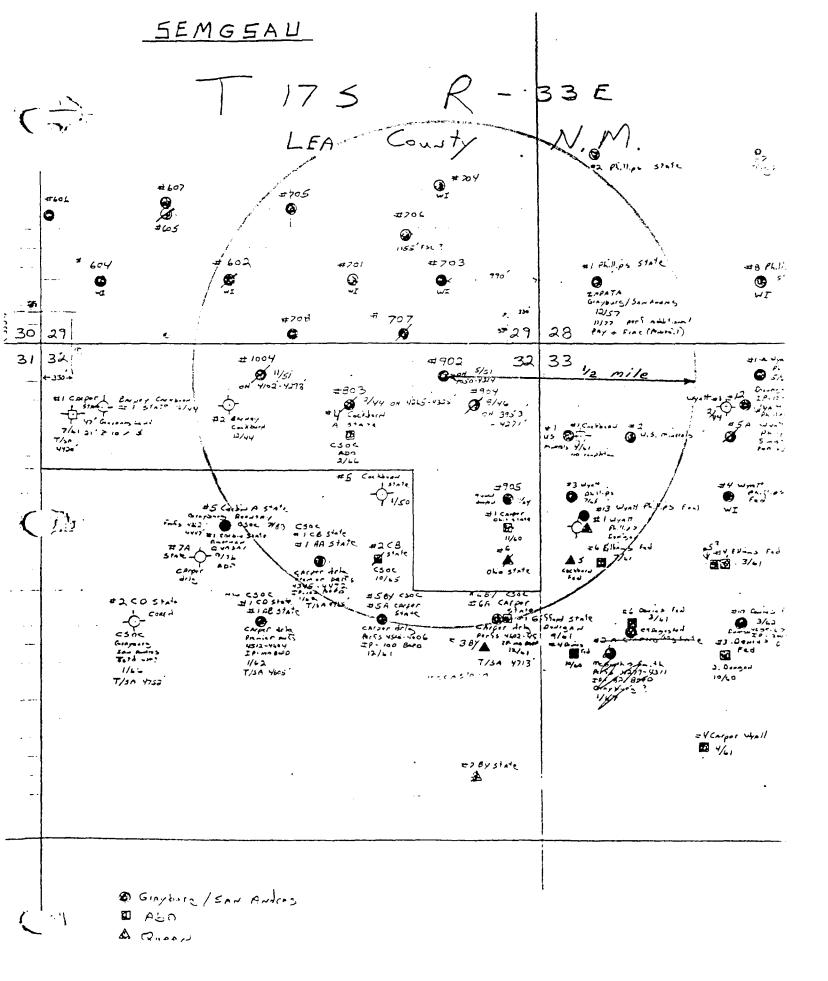
# ITEM VII Operation Data

- 1) Proposed average daily rate 200 BWPD.
  Proposed maximum daily rate 400 BWPD @ 1400 psig.
- 2) Closed system.
- 3) Expected average injection pressure 1000 psig. Maximum injection pressure 1500 psig.
- 4) Injection water is primarily produced water with some fresh water to augment the injection volume. The fresh water is being supplied to the SEMGSAU by Conoco, Inc. and is used extensively in this area for secondary recovery purposes.
- 5) Injection is not for disposal purposes.

ITEM IX

1) Stimulation is not planned at this time.





K3 9/21/90

WI - WATER injection well

1= 1000

#### AFFIDAVIT OF PUBLICATION

State of New Mexico, County of Lea.

T	Kathi	Bearden
1.	Katiii	DCGLGCII

of the Hobbs Daily News-Sun, a daily newspaper published at Hobbs, New Mexico, do solemnly swear that the clipping attached hereto was published once a week in the regular and entire issue of said paper, and not a supplement thereof for a period

of
One weeks.  Beginning with the issue dated
April 17 , 1991 and ending with the issue dated
April 17 , 1991
Harri Barver General Manager

me this 24 day o

Sworn and subscribed to before

Honda Copeland Notary Public.

My Commission expires\_\_\_\_\_

<u>July 24</u> , 19<u>91</u> (Seal)

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3. Chapter 167, Laws of 1937, and payment of fees for said publication has been made.

LEGAL NOTICE
April 17, 1991
Cross Timbers Production Company, P.O. Box 50847, Midland, Texas 79710, (915) 682-8873, is hereby giving notice of our intent. the inject produced water and/or fresh water into the SEMGSAU Tract 9 Well No. 2 located 330' FNL & 990' FEL of Section 32,

T-17-S, R-33-E for secondary recovery purposes. Water is to be injected into the Grayburg and San Andres formations from 4.050° to 4,500° at an expected rate of 200 BWPD and 1400 psig pressure. Interested persons objecting to this application must file a request for hearing with the Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico 87501, within 15 days of this notice.

OPERATOR		SEMGSAU Tract 9
WELL NO.	300' FNL, 990' FEL	Section 32, T-17-S, R-33-E SECTION TOWNSHIP RANGE
Schem	ntic	Tabular Data
ia .	12 '4" HOLE  TOC 1100' (CALC.)  8 \( \frac{8}{3} \) 24'  @ 1257'	Surface Casing  Size 8-5/8" " Cemented with 50 stroc 1,100" feet determined by calculated  Hole size 12-1/4"  ** Intermediate Casing
" 4.7 <b>s</b>	₩/ 50 3x	Size "Cemented with state of the state of th
STIC TED SING	778" HOLE	Size $5-1/2$ " " Cemented with 100  TOC 3,400' feet determined by calculated
ER AD-1	0 FOC 3406' (CA46)	Hole size 7-7/8"  Total depth 4,500'  Injection interval
4000'	5 1/2" 14 # @ 4050' w/ 100 5x	4,050 feet to 4,500 feet (perforated or (open-hole), indicate which)
	43/4" SPEN	Hot E
	TD 4500'	
Tubing size	2-3/8" lined	with plastic set in a
Baker_AD	-1 and model)	(material) packer at 4,000 feet
	any other casing-tubing	seal).
Other Data		
	the injection formation	
*	Field or Pool (if application a new well drilled for it	
		well originally drilled? <u>oil production</u>
		ed in any other zone(s)? List all such perforated interva
4. Has the and give	well ever been perforate plugging detail (sacks	of cement or bridge plug(s) used) <u>No</u>