

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

N.M. Oil Cons. Division
P.O. Box 1980
Hobbs, NM 88241
RECEIVED

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

5. Lease Designation and Serial No.
LC-060967
6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other <u>Water Injector</u>	8. Well Name and No. SEMGSAU #106
2. Name of Operator Cross Timbers Operating Company	9. API Well No. 30-025-33353
3. Address and Telephone No. 3000 N. Garfield, Suite 175, Midland, TX 79705 915/682-8873	10. Field and Pool, or Exploratory Area San Maljamar Grayburg Andres
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 1040' FSL & 420' FEL, Sec. 30, %17S, R33E, Unit Ltr P	11. County or Parish, State Lea Co., NM

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

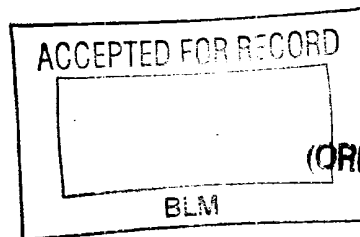
TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input checked="" type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Rigged up pulling unit. Installed BOP. Pulled and laid down rods, pump and production tubing. Ran Arrowset 1-XS packer on 2-3/8" internally plastic coated tubing. Pumped packer fluid into annulus. Set tubing & packer @ 4181'. Removed BOP. Installed wellhead. Pressure tested tubing/casing annulus to 580 psig. Held OK (chart attached). Moved off pulling unit. Started water injection on May 12, 1998 at an estimated rate of 239 BWPD @ 0 psi.

ADMINISTRATIVE ORDER NO. WFX-731



(ORIG. SGD.) GARY GOURLEY

14. I hereby certify that the foregoing is true and correct

Signed

James Courtney

Title Regulatory Tech

Date 6/01/98

(This space for Federal or State office use)

Approved by

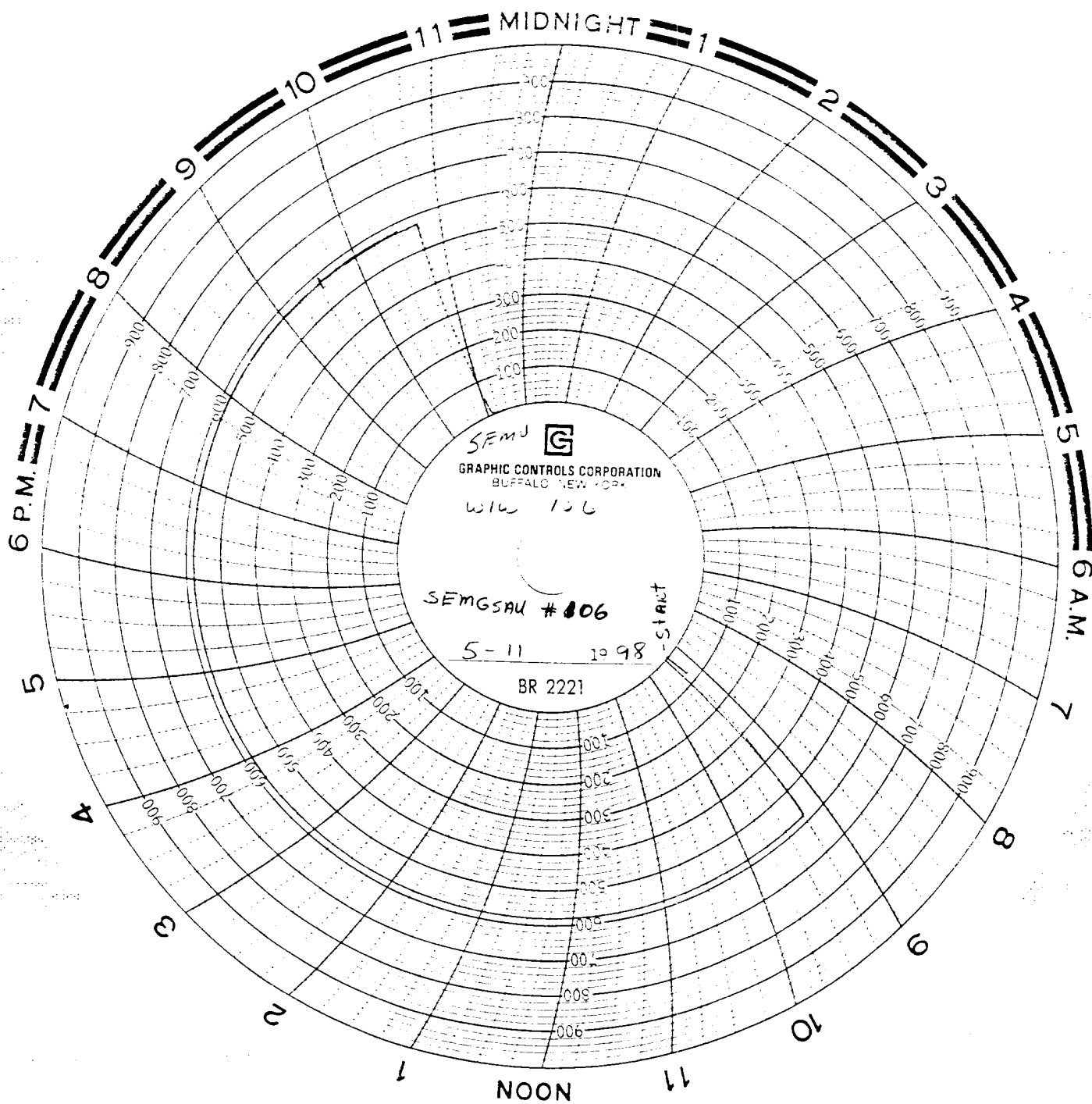
Title

Date

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side



original chart mailed
to CCD/Habbs



NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

REC'D. / MIDLAND

FEB 16 1998

ADMINISTRATIVE ORDER NO. WFX-731

*APPLICATION OF CROSS TIMBERS OPERATING COMPANY TO EXPAND ITS
WATERFLOOD PROJECT IN THE MALJAMAR GRAYBURG-SAN ANDRES POOL IN LEA
COUNTY, NEW MEXICO*

ADMINISTRATIVE ORDER
OF THE OIL CONSERVATION DIVISION

Under the provisions of Division Order No. R-3469 as amended, Cross Timbers Operating Company has made application to the Division on December 4, 1997 for permission to expand its Southeast Maljamar Grayburg-San Andres Unit Waterflood Project in the Maljamar Grayburg-San Andres Pool in Lea County, New Mexico.

THE DIVISION DIRECTOR FINDS THAT:

- (1) The application has been filed in due form.
- (2) Satisfactory information has been provided that all offset operators have been duly notified of the application.
- (3) No objection has been received within the waiting period as prescribed by Rule 701(B).
- (4) The proposed injection wells are eligible for conversion to injection under the terms of Rule 701.
- (5) The proposed expansion of the above referenced waterflood project will not cause waste nor impair correlative rights.
- (6) The application should be approved.

IT IS THEREFORE ORDERED THAT:

The applicant, Cross Timbers Operating Company, be and the same is hereby authorized to inject water into the Grayburg formation at approximately 4218 feet to approximately 4395 feet through 2 3/8-inch plastic lined tubing set in a packer located within 100 feet of the uppermost injection perforations in the wells described on Exhibit "A" attached hereto, for purposes of secondary recovery.

IT IS FURTHER ORDERED THAT:

The operator shall take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the surface.

Prior to commencing injection operations into the wells, the casing shall be pressure tested from the surface to the packer setting depth to assure the integrity of said casing.

The casing-tubing annulus shall be loaded with an inert fluid and equipped with a pressure gauge at the surface or left open to the atmosphere to facilitate detection of leakage in the casing, tubing or packer.

The injection well or system shall be equipped with a pressure limiting device which will limit the wellhead pressure on the injection wells to .2 psi per foot of depth to the uppermost injection perforations of each well as indicated on Exhibit 'A'.

The Director of the Division may authorize an increase in injection pressure upon a proper showing by the operator of said wells that such higher pressure will not result in migration of the injected fluid from the Grayburg formation. Such proper showing shall consist of a valid step-rate test run in accordance with and acceptable to this office.

The operator shall notify the supervisor of the Hobbs district office of the Division of the date and time of the installation of injection equipment and of the mechanical integrity tests so that the same may be inspected and witnessed.

The operator shall immediately notify the supervisor of the Hobbs district office of the Division of the failure of the tubing, casing or packer in said wells and shall take such steps as may be timely and necessary to correct such failure or leakage.

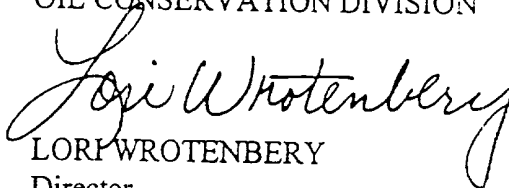
The subject wells shall be governed by all provisions of Division Order No. R-3134, as amended and Rules 702-706 of the Division Rules and Regulations not inconsistent herewith.

PROVIDED FURTHER THAT, jurisdiction is retained by the Division for the entry of such further orders as may be necessary for the prevention of waste and/or protection of correlative rights or upon failure of the operator to conduct operations (1) to protect fresh water or (2) consistent with the requirements in this order, whereupon the Division may, after notice and hearing, terminate the injection authority granted herein.

The injection authority granted herein shall terminate one year after the effective date of this order if the operator has not commenced injection operations into the subject wells, provided however, the Division, upon written request by the operator, may grant an extension thereof for good cause shown.

DONE at Santa Fe, New Mexico, on this 10th day of February, 1998.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION


LORI WROTENBERY
Director

S E A L

LW/BES/kv

cc: Oil Conservation Division - Hobbs
Case File No.3462

EXHIBIT "A"

DIVISION ORDER NO. WFX-731

SOUTHEAST MALJAMAR GRAYBURG-SAN ANDRES UNIT WATERFLOOD PROJECT

APPROVED INJECTION WELLS

Well Name	Well No.	Location	Unit	S-T-Ref	Injection Interval	Packer Depth	Tubing Size	Pressure Gradient	Injection Pressure
SEMGSAU	15	500' FNL & 330' FWL	D	32-17S-33E	4322'-4395'	4262'	2 3/8"	.2 psi/ft	864 PSIG
SEMGSAU	106	1040' FSL & 420' FEL	P	30-17S-33E	4218'-4279'	4158'	2 3/8"	.2 psi/ft	844 PSIG
SEMGSAU	610	1310' FSL & 750' FWL	M	29-17S-33E	4252'-4278'	4192'	2 3/8"	.2 psi/ft	838 PSIG
SEMGSAU	614	1070' FSL & 1888' FWL	N	29-17S-33E	4250'-4308'	4190'	2 3/8"	.2 psi/ft	850 PSIG
SEMGSAU	710	1165' FSL & 2010' FEL	O	29-17S-33E	4272'-4324'	4212'	2 3/8"	.2 psi/ft	854 PSIG
SEMGSAU	714	1200' FSL & 900' FEL	P	29-17S-33E	4282'-4332'	4222'	2 3/8"	.2 psi/ft	856 PSIG

All wells in Lea County, New Mexico