OIL CONSERVATION DIVISION

POST OFFICE BOX 20HB STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87503 FORM C-108 Revised 7-1-81

SPLICA	TION FOR AUTHORIZATION TO INJECT
I.	Purpose: Secondary Recovery Pressure Maintenance X Diagnost Storage Application qualifies for administrative approval?
II.	Operator: Trobaugh Properties
	Address: c/o Oil Reports & Gas Services, Inc., P. O. Box 755, Hobbs, NM 88241
	Contact party: Donna Holler Phone: 505-393-2727
111.	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? ves no If yes, give the Division order number authorizing the project
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:
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and 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 injectior zone as well as any such source known to be immediately underlying the injectior 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 <u>disposal well showing</u> location of wells and dates samples were taken.
XII.	Applicants for disposal wells must make an affirmative statement that they have STOGNER examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and affirmative statement that they have STOGNER examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and affirmative statement that they have STOGNER examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and affirmative statement that they have STOGNER examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and affirmative statement that they have statement t
XIII.	Applicants must complete the "Proof of Notice" section in the reserve se side of the form.
XIV.	Certification Case No. <u>8959</u>
	I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
	Name: Dorna Holler Title Agent
•	Signature:Date: July 10, 1986
submi	e information required under Sections VI, VIII, X, and XI above has been previously tted, it need not be duplicated and resubmitted. Please show the date and circumstance e earlier submittal.

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:
 - 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.

APPLICATION FOR AUTHORIZATION To Convert to Water Disposal

Trobaugh Properties
Lynch No. 1

Statements of Compliance

BEFORE EXAMINER STOGNER

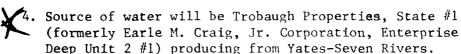
Oil Conservation Division

Mobauch Exhibit No. 2

Case No. _**8959**

Item III. A. See Attachment III A

- Item III. F. (1) Yates-Seven Rivers Formation, Lynch Yates Seven Rivers Pool.
 - (2) Open hole 3774 to 3805
 - (3) Drilled for oil production
 - (4) Originally completed by J. H. Elder 10/4/52 for production from open hole interval 3700 to 3757; P & A by Mallard Petroleum, Inc. March 1966, exact date unknown. Re-entered by C. W. Trainer 11/10/83 and deepened to 3805. A 3 1/2" 9.5# J-55 liner will be set at 3774 with cement circulated.
 - (5) There are no known higher or lower oil zones. The Earle M. Craig, Jr. Corporation, Enterprise Deep Unit 2 No. 1, located 1310' FNL & 1510' FEL of Section 2, T21S, R33E, was plugged 9/10/84 as non productive at a total depth of 14,066 feet.
- Item V. An ownership plat of area is identified as Attachment V.
- Item VI. A tabulation of all wells within a one-half mile radius is identified as Attachment VI (a) pages 1 thru 3. A map index of wells so tabulated for easy reference to ownership plat is identified as Attachment VI (b). The schematic of each plugged well within the area of radius is identified as Attachment VI (c) pages 1 thru 8.
- Item VII
- 1. Estimated average rate of water to be disposed is 550 barrels per day; estimated maximum daily rate is 700 barrels per day.
- 2. The system will be closed
- Average Injection Pressure: 0 psig
 Maximum Injection Pressure: 100 psig



5. Injection water and receiving formation is the same.

Item VIII

The proposed injection zone is the Yates and Seven Rivers, being limestone with sand streaks. The top of the Yates occurs at approximately 3600 feet in this area with the bottom of the Seven Rivers at approximately 4200 feet for a gross thickness of 600 feet.

Fresh water in the area is found in the Ogallala formation between 100 and 125 feet. There are no known fresh water source below the Yates-Seven Rivers formations.

Item IX. Injection interval to be treated with 500 gallons 15% hydrocloric acid.

Item X. Well was originally drilled with cable tools in 1952 and has never been logged. After reentry and deepening the well pumped 4 1/2 barrels oil and 3,000 barrels water in 9 days.

Item XI. There are two fresh water wells producing within a one mile radius of the Lynch No. 1. The first, identified on the water analysis as "North Oilfield Well" is located in SE/4 SE/4 of Section 34, T20S, R34E. The second, identified on the water analysis as "House Water Well" is located in Lot 16, Section 2, T21S, R33E. Both samples were taken July 2, 1986. The Laboratory Water Analysis is identified as Attachment XI.

Item XII. The first oil production was obtained in October 1929. Continuous production has been sustained since 1951 with no evidence of open faults or other hydrologic connection between the Yates-Seven Rivers and the Ogallala formations.

Item XIII. A copy of Form C-108 with Statements of Compliance has been furnished by certified mail as follows:

Surface Owner: Texaco Inc.

P. O. Box 3109

Midland, Texas 79702

Offset Operators Within One-Half Mile:

Burk Royalty Company P. O. Box BRC

Wichita Falls, Texas 76307

Sabine Corporation P. O. Box 3083

Midland, Texas 79702

Earle M. Craig, Jr. P. O. Box 1351

Midland, Texas 79702

Texaco Inc. P. O. Box 3109

Midland, Texas 79702

Hudson & Hudson

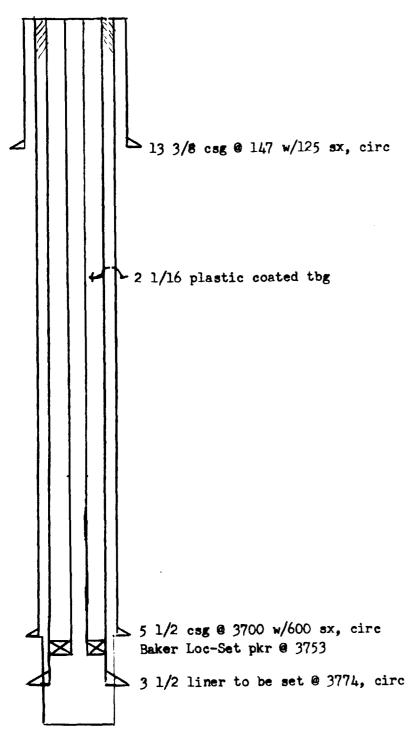
1440 First United Tower Fort Worth, Texas 76102

C. W. Trainer

526 Sandy Mountain Drive Sunrise Beach, Texas 78643

Phillips Petroleum Company 4001 Penbrook Odessa, Texas 79762

A copy of Certified Mail Receipts is identifed as Attachment XIII.



Trobaugh Properties
Lynch No. 1
330' FSL & 1650' FWL
Sec. 35, T20S, R34E
Proposed SWD

C-108 Attachment III. A

BEFORE EXAMINER STOGNER
Oil Conservation Division

TO DAYAL Exhibit No. 3

Case No. 2959

TD 3805

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TABULAR SUMMARY

All Wells Within One-Half Mile Trobaugh Properties - Lynch No.

Oil Conservation Division

BEFORE EXAMINER STOGNER

ANDANAL Exhibit No. 5

Case No. **8959**

Map Index Well No.

Well Description Section 35, T20S, R34E, Lea County Sabine Corporation - W. H. Milner Federal #3 1 Unit F: 2310' FNL & 1650' FWL Spud 10/2/:2, Comp. 11/9/52, Type: Oil Well Casing: 13 3/8 @ 95 w/125 sx, circ 5 1/2 @ 3682 w/800 sx TD 3736, Open Hole 3682-3736, Formation: Yates-Seven Rivers Potential: 75 BO, 25 BW, Current Allowable: 10 BO William A. & Edward R. Hudson - Federal #1 2 Unit E: 2310' FNL & 990' FWL Spud 1/1/53, Comp. 2/4/53, Type: Oil Well Casing: 5 1/2 @ 3680 w/850 sx TD 3734, PBTD 3724, Open Hole 3680-3724, Formation: Yates-Seven Rivers Potential: Pump 20 BO, 14 hours Current Allowable: 3 BO Phillips Petroleum Company - Neal #1 3 Unit J: 1657' FSL & 2310' FEL Spud 6/23/53, Comp. 8/6/53, Type: Oil Well Casing: 8 5/8 @ 144 w/74 sx, circ 5 1/2 @ 3750 w/375 sx TD 3775, Open Hole 3750-3775, Formation: Yates-Seven Rivers Potential: 31 BOPD 1959: PB to 3729, Perf Yates 3687-3714 P & A 10/22/61, Schematic Attached Sabine Corporation - W. H. Milner Federal #2 4 Unit K: 1650' FSL & 1650' FWL Spud 8/21/52, Comp. 9/24/52, Type: 0il Well Casing: 13 :/8 @ 123 w/125 sx, circ 5 1/2 @ 3695 w/600 sx TD 3747, Open Hole 3695-3747, Formation: Yates-Seven Rivers Potential: **EO BOPD Current Allowable: 9 BO** Texaco Inc. - B. V. Lynch "A" Federal #7 5 Unit L: 165C' FSL & 990' FWL Spud 11/15/52, Comp. 12/19/52, Type: Qil Well Casing: 5 1/2 @ 3668 w/1300 sx, circ TD 3705, Open Hole 3668-3705, Formation: Yates-Seven Rivers Potential: Pump 60 BO, 6 hours Current Allowable: 2 BO Texaco Inc. - B. V. Lynch "A" Federal #6 6 Unit M: 660' FSL & 330' FWL Spud 8/1/52, Comp. 7/31/52, Type: Oil Well

Casing: 5 1/2 @ 3666 w/1350 sx, circ

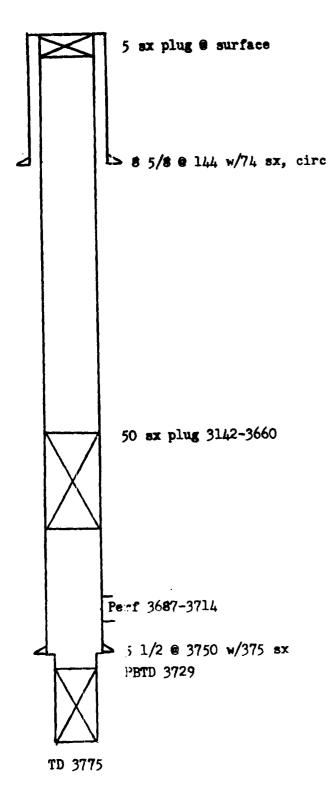
Potential: 238 BOPD Current Allowable: 18 BO

TD 3726, Open Hole 3666-3726, Formation: Yates-Seven Rivers

Well Description	Map Index Well No.
Section 34, T20S, R34E, Lea County	
Texaco Inc B. V. Lynch "A" Federal #8 Unit I: 1651' FSL & 660' FEL Spud 1/15/53, Comp. 3/9/53, Type: Oil Well Casing: 5 1/2 @ 3689 w/1390 sx, circ TD 3759, PBTD 3750, Open Hole 3689-3750, Formation: Yates-Seven Rivers Potential: 229 BO, 12 BW Converted to SWD 12/1/68, Open Hole 3689-3750; 3/1/71 perf 3586-3611: SI 3/1/71; "SA 4/15/82 w/CIBP @ 3500 w/40' cmt. Cuml. volume water injected 2,001,947 bbls	7
Texaco Inc B. V. Lynch "A" Federal #2 Unit P: 660' FSL & 660' FEL Spud date unknown, Comp. date unknown, Type: Oil Well Casing: 20 @ 114 with 22 sx 8 ./4 @ 1687 w/75 sx 5 ./2 @ 3630 w/70 sx Potential: Unknown Approved for SWD by Order R-7971 on 7/2/85, Open Hole 3630-4200 No report filed on SWD conversion	8
Section 1, C21S, R33E, Lea County	
J. H. Elder et al - Ralph A. Shugart #1 Unit C: 990 FNL & 1370' FWL Spud 10/6/52, Comp. 11/18/52, Type: Dry & Abandoned Casing: 13 3/8 @ 147 w/mud TD 3827, P & A 11/21/52 Schematic Autached	9
Paul H. Laverty - Ralph A. Shugart #4 Unit D: 330 FNL & 330' FWL Spud 12/9/53, Comp. 1/27/54, Type: Oil Well Casing: 13 3/8 @ 135 w/mud & pulled	10
Paul H. Laverty - Ralph A. Shugart #2 Unit D: 998.5' FNL & 330' FWL Spud 12/7/51, Comp. 1/10/52, Type: Oil Well Casing: 13 1/8 @ 105 w/125 sx, circ	11

Well Description	Map Index Well No.
Section 1, F21S, R33E, Lea County, Continued	
Paul H. Laverty - Ralph A. Shugart #1 Unit E: 2110' FNL & 330' FWL Spud 10/10/51, Comp. 11/25/51, Type: Oil Well Casing: 13 3/8 @ 98 w/125 sx, circ 5 1/2 @ 3700 w/400 sx, circ TD 3772, Open Hole 3700-3772, Formation: Yates-Seven Rivers Potential: Pump 80 BOPD P.& A 3/19/50 Schematic Attached	12
The Texas Company - State "B" #1 Unit E: 2311' FNL & 330' FWL Spud 10/28/29, Comp. 1/28/30, Type: Oil Well Casing:20 @ 115 w/mud & pulled	13
Section 2, 121S, R33E, Lea County	
B. N. Muncy, Jr Lea State #5 Unit A: 990 FNL & 330' FEL Spud 3/26/52, Comp. 5/4/52, Type: Oil Well Casing: 5 1/2 @ 3731 w/1400 sx, circ TD 3753, Open Hole 3731-3753, Formation: Yates-Seven Rivers Potential: Pump 53 BO, 4 1/4 hours 1/31/67 Perf 3608-3732 3/69 Deepen to 3784, TA 3/21/69 P & A 10/26/77 Schematic Attached	14
B. N. Muncy, Jr Lea State #6 Unit A: 660' FNL & 833' FEL Spud 12/20/70, Comp. 12/24/70, Type: Dry & Abandoned Casing: 10 3/4 @ 151 with 100 sx, circ 5 1/2 @ 3713 w/100 sx TD 3779, P & A 10/26/77 Schematic Attached	15

Section 34, T20S, R34E Section 35, T20S, R34E	
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Section 2, T21S, R33E Section 1, T21S, R33E	
BEFORE EXAMINER STOGNER Map Index	1
Oil Conservation Division C-108 Attachment VI (b) C-108 Attachment VI (b)	 +-
Case No. 8959	1



BEFORE EXAMINER STOGNER
Oil Conservation Division
RobAnd Exhibit No. 7
Case No. 8959

Phillips Petroleum Company Neal No. 1 1650' FSL & 2310' FEL Sec. 35, T2OS, R34E P & A 10/22/61

Map Index Well No. 3



15 ax cmt plug @ surface

Unknown if pulled

Pumped in 25 sx cmt plug w/tbg @ 200

Pumped in 300 ax mud

Pumped 40 sx cmt plug w/tbg @ 2000

Pumped 60 sx cmt plug w/tbg @ 3815

5(10# lead wool 3820-3827

TD 3827

BEFORE EXAMINER STOGNER

Oil Conservation Division

TROBAIGH Exhibit No. 8

Case No. <u>8959</u>

J. H. Elder, et al Ralph A. Shugart No. 3 990' FNL & 1370' FWL Sec. 1, T21S, R33E P & A 11/21/52

Map Index Well No. 9

10 sx plug @ surface

Hole circulated w/gel mud

30 sx cmt plug 3665-3770

5 1/2 ● 3739 w/850 sx, circ.

TD 3770

BEFORE EXAMINER STOGNER

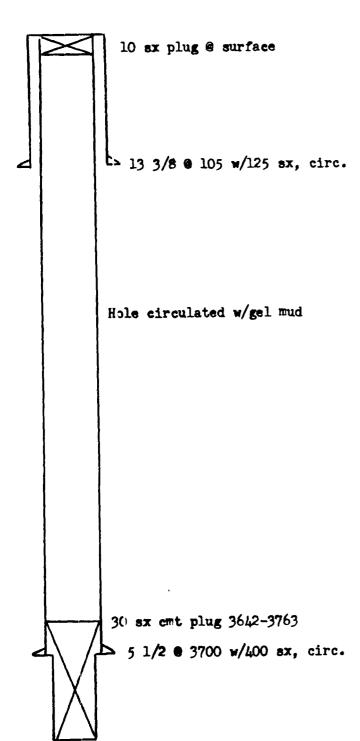
Oil Corse.vation Division

Teobagh Exhibit No. 9

Case No. <u>8959</u>

Paul H. Laverty
Ralph Shugart No. 4
330' FNL & 330' FWL
Sec. 1, T21S, R33E
P & A 3/22/60

Map Index Well No. 10



BEFORE EXAMINER STOGNER

Oil Conservation Division

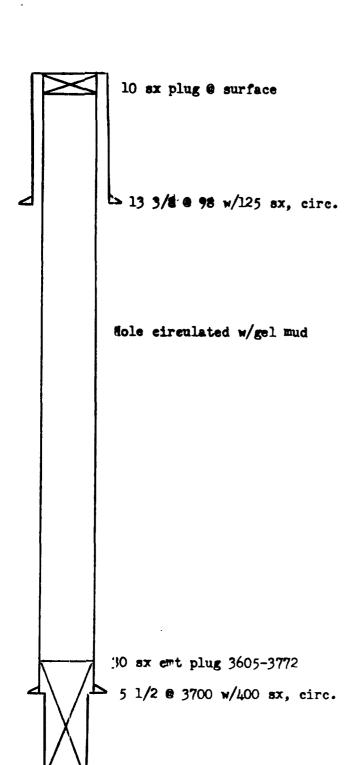
Tabagh Exhibit No. 10

Case No. _ 8959

TD 3763

Paul H. Laverty
Ralph Shugart No. 2
998.5' FNL & 330' FWL
Sec. 1, T21S, R33E
P & A 3/21/60

Map Index Well No. 11



BEFORE EXAMINER STOGNER

Oil Conservation Division

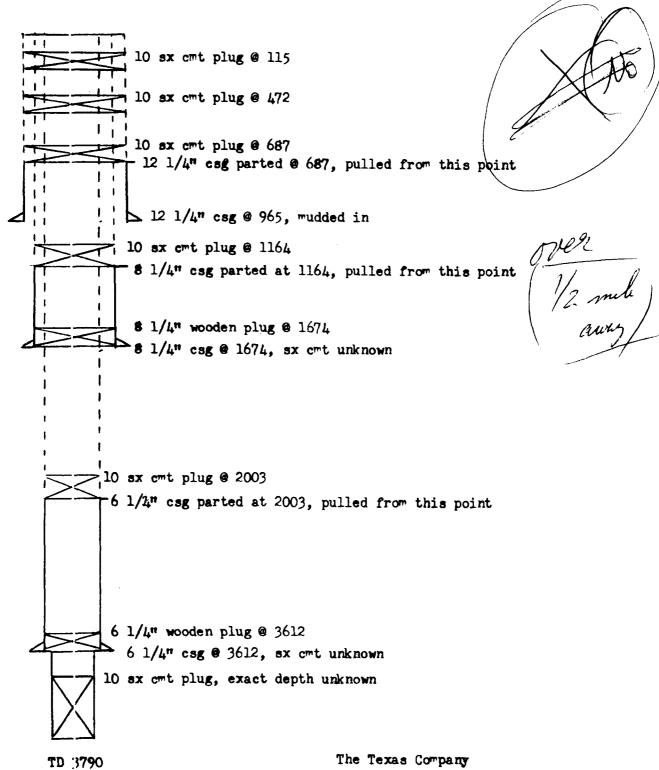
TRUDAND Exhibit No. 11

TD 3772

Case No. <u>**8959**</u>

Paul H. Laverty
Ralph Shugart No. 1
2110' FNL & 330' FWL
Sec. 1, T21S, R33E
P & A 3/19/60

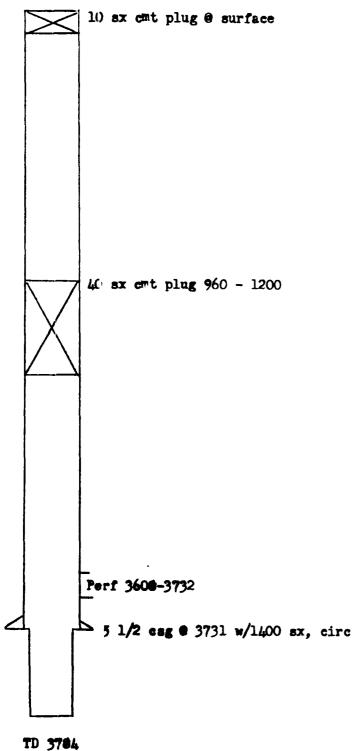
Map Index Well No. 12



BEFORE EXAMINER STOGNER
Oil Conservation Division
Robbug L, Exhibit No. 12
Case No. 8959

The Texas Company
State "B" No. 1
2311' FNL & 330' FWL
Sec. 1, T21S, R33E
P & A 7/22/30

Map Index Well No. 13



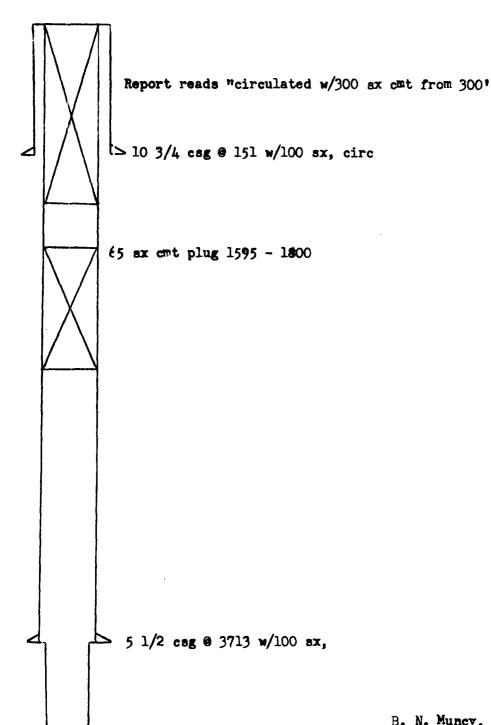
BEFORE EXAMINER STOGNER
Oil Conservation Division

ANALY Exhibit No. 13

Case No. 8959

B. N. Muney, Jr. Lea State No. 5 990' FNL & 330' FEL Sec. 2, T21S, R33E P & A 10/26/77

Map Index Well No. 14



TD 3779

BEFORE EXAMINER STOGNER

Oil Conservation Division

TROBANA Exhibit No. 14

Case No. 8959

B. N. Muncy, Jr. Lea State No. 6 660' FNL & 833' FEL Sec. 2, T21S, R33E P & A 10/26/77

Map Index Well No. 15

1848 A

HALLIBURTON DIVISION LABORATORY

HALLIBURTON SERVICES MIDLAND DIVISION

HOBBS, NEW MEXICO 88240

LABORATORY WATER ANALYSIS

	No
ate_7	-3-86
thereof: thout first nanageme or busines	ty of Hailiburton Company and neither nor a copy thereof is to be published securing the express written approval securing the express written approval int; it may however, be used in the s operations by any person or concern receiving such report from Heiliburton
te Rec.	7-2-86
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OKE E	*Milligrams per liter XAMINER STOGNER
I Con	servation Division
Agh i	xhibit No. 15

ToOil Reports & Gas	s Co.		Date_7-3-86
		it or of co	is report is the property of Halliburton Company and neither nor any part thereof nor a copy thereof is to be published disclosed without first securing the express written approval laboratory management; it may however, be used in the urse of regular business operations by any person or concern d employees thereof receiving such report from Heiliburton impany.
Submitted by			Date Rec. 7-2-86
Well No	Depth		Formation
County	North Oilfield Well	House Wa	Source Iter Well 133e
Resistivity	4.21 @ 70°	14.8 @ 70)°
Specific Gravity	1,002	1.001	
pH	7.2	7.4	
Calcium (Ca)	550	150	*MPL
Magnesium (Mg)	Nil	Nil	
Chlorides (CI)	_700	250	
Sulfates (SO ₄)	200	100	
Bicarbonates (HCO ₃)	_180 .	252	
Soluble Iron (Fe)	Nil	Nil	
Sodium		69	
TDS	1676	821	
Remarks:			BEFORE EXAMINER STOGNER Oil Conservation Division 72 bags Exhibit No. 15
1	Respectfu	lly submitted,	Case No. 8959
Analyst:	Mayor		HALLIBURTON COMPANY
cc:	•	Ву	CHEMIST

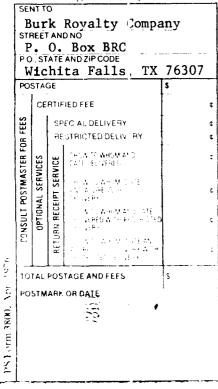
NOTICE

P 243 010 553

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED— NOT FOR INTERNATIONAL MAIL

NOT FOR INTERNATIONAL MAIL
(See Reverse)



P 243 010 554

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED— NOT FOR INTERNATIONAL MAIL (See Reverse)

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P 243 010 555

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED— NOT FOR INTERNATIONAL MAIL (See Reverse)

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P 243 010 556 RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED— NOT FOR INTERNATIONAL MAIL

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P 243 010 557

RECEIPT FOR CERTIFIED MAIL

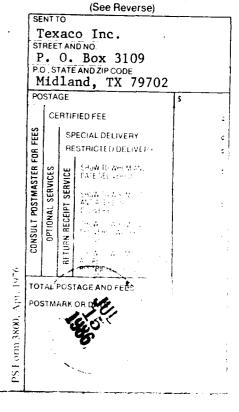
NO INSURANCE COVERAGE PROVIDED— NOT FOR INTERNATIONAL MAIL (See Reverse)

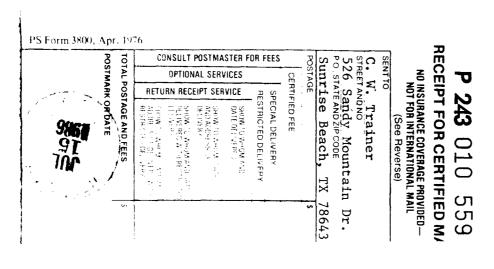
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P 243 010 558

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED— NOT FOR INTERNATIONAL MAIL





BELOUE EXAMINER STOGNER

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Case No. 8959