

Wagner & Brown

Oil & Gas Producers

Suite 1200 The Summit

300 N. Marienfeld

P. O. Box 1714

MIDLAND, TEXAS 79702

JERRY L. HAMILTON
Petroleum Engineer

(915) 682-7936

May 6, 1988

New Mexico Oil Conservation Division
P.O.Box 2088
Santa Fe, New Mexico 87501

Attn: David Catanach

Re: W&B Application to Expand
Existing Disposal Interval
Soldier Hill "AE" State #1-C
Lea County, New Mexico

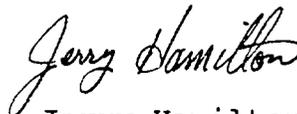
Gentlemen:

Enclosed is an original and one copy of our application to expand the saltwater disposal interval in the above referenced well. Currently we are disposing into the Devonian (11,224'-11,234'). We want to expand this interval to incorporate everything from 6,000'-11,234'.

According to our telephone conversation of this date, the hearing has been set in Santa Fe, New Mexico on June 8, 1988 at 8:15 a.m.

Sincerely,

WAGNER & BROWN



Jerry Hamilton,
Engineer

JH/jgf

Enclosures

BEFORE EXAMINER CATANACH
OIL CONSERVATION DIVISION
WAGNER & BROWN EXHIBIT NO. <u>2</u>
CASE NO. <u>9400</u>

APPLICATION FOR AUTHORIZATION TO INJECT

- I. Purpose: Secondary Recovery Pressure Maintenance Disposal Storage
Application qualifies for administrative approval? yes no
- II. Operator: WAGNER & BROWN
Address: P.O. BOX 1714, Midland, TX 79702
Contact party: Jerry Hamilton Phone: 915/686/5932
- 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 _____.
- 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: Jerry Hamilton Title Engineer

Signature: *Jerry Hamilton* Date: 5-6-88

* 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. June, 1972 - Hearing Application of Stoltz, Wagner & Brown

for approval of Salt Water Disposal - approved June 14, 1972

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate Division

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. See Attached
- (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. See Attached
- (3) A description of the tubing to be used including its size, lining material, and setting depth. See Attached
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used. See Attached

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.
See Attached
- (2) The injection interval and whether it is perforated or open-hole.
See Attached
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
See Attached
- (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.
See Attached
- (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.
See Attached

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.

See Attached

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.

ATTACHMENT TO FORM C - 108

PART III A

1 - 4 Attached

PART III b

- 1) The formation to be injected into is the Devonian in the East Caprock Devonian Pool
- 2) The injection interval is perforated from 11,224' - 11,234'
- 3) The well was drilled by Carper Drilling Company, Inc., and completed as an oil well in the East Caprock-Devonian Pool. The well was spudded 3/14/64 and completed 5/8/64.
- 4) The well ceased to produce in 1970 and was converted to a Salt Water Disposal Well, application approved June 14, 1972. Commenced disposing of salt water 8/1/72. See attached Salt Water Disposal Easement No. SWD-0040 dated October 24, 1983.
- 5) There is no lower production, and the next higher oil and gas production is Atoka Sand

PART VII

- 1) The average daily injection rate will be 1500 BWPD and a maximum of 2000 BWPD.
- 2) The System is closed.
- 3) The source of the water is produced water from the Devonian - W&B-Cleveland No. 1 well - located in Sec. 23, T12S, R32E. As of 1/31/88 there has been a total of 4,333,327 bbls. of salt water disposed of in this well.
- 4) The average injection pressure is vacuum.

PART VIII

The proposed injection zone is the Devonian and the lithology is as follows: Dolomite, white to tan, suerosic to rhombic, vuggy, fractured, with small amount of chert. The top of the Devonian is at 11,214'. The injection zone is 11,224' - 11,234'. See attached Geological Data Sheet.

PART IX

Proposed Stimulation Program: 2000 gals 15% HCl

PART XII

WAGNER & BROWN has examined available geologic and engineering data, and finds no evidence of open faults or any other hydrologic connection between the disposal zone and any other source of drinking water.

PART XIII

Proof of Notice: Surface owner is State of New Mexico.

03/08/88



NEW MEXICO STATE LAND OFFICE

SALT WATER DISPOSAL EASEMENT

APPLICATION NO. SWD-0040

SALT WATER DISPOSAL
EASEMENT NO. SWD-0040

THIS AGREEMENT, dated this 24th day of October, 19 83,
made and entered into between the State of New Mexico, acting by and through the undersigned, its Commissioner
of Public Lands, hereinafter called the grantor, and Wagner and Brown, a Texas General
of Partnership, P.O. Box 1714 Midland, Texas 79702
Address

hereinafter called the grantee,

WITNESSETH:

That, whereas, the said grantee has filed in the Land Office an application for salt water disposal easement
and has tendered the sum of \$ 260.00, together with the sum of \$10.00 application fee;

NOW, THEREFORE, in consideration of the foregoing tender, receipt of which is acknowledged, and the covenants
herein, grantor does grant to the grantee a salt water disposal easement for the sole and only purpose of under-
ground disposal of salt water produced in connection with oil and gas operations, together with the right to make
such reasonable use of the land as may be necessary to dispose of said salt water. Said easement shall cover the
following described lands:

INSTITUTION	SECTION	TOWNSHIP	RANGE	SUBDIVISION	ACRES
C.S.	23	12S	32E	SW $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$	1.00

TO HAVE AND TO HOLD said lands and privileges hereunder for a term of five (5) years from the date
first above written, subject to all terms and conditions hereinafter set forth:

1. Grantee shall pay the grantor the sum of \$ 250.00 annually, in advance.
2. With the consent of the grantor and payment of a fee of \$10.00, the grantee may surrender or relinquish
this salt water disposal easement to the grantor; provided, however, that this surrender clause shall become ab-
solutely inoperative immediately and concurrently with the filing of any suit in any court or law or equity by
the grantor or grantee or any assignee to enforce any of the terms of this salt water disposal easement.
3. The grantee, with the prior written consent of the grantor, may assign his salt water disposal easement
in whole only. Upon approval of the assignment, in writing, by the grantor, the grantee shall stand relieved from
all obligations to the grantor with respect to the lands embraced in the assignment, and the grantor shall like-
wise be relieved from all obligations to the assignor as to such tracts, and the assignee shall succeed to all of
the rights and privileges of the assignor with respect to such tracts and shall be held to have assumed all of the
duties and obligations of the assignor to the grantor as to such tracts.
4. The grantor may cancel this salt water disposal easement for non-payment of annual consideration or for
violation of any of the terms and covenants hereof; provided, however, that before any such cancellation shall be
made, the grantor must mail to the grantee or assignee, by registered mail, addressed to the post office address
of such grantee or assignee, shown by the records, a thirty-day notice of intention to cancel said salt water dis-
posal easement, specifying the default for which the salt water disposal easement is subject to cancellation. No
proof of receipt of notice shall be necessary and thirty days after such mailing, the grantor may enter cancella-
tion unless the grantee shall have sooner remedied the default.
5. The grantee shall furnish copies of records and such reports and plats of his operations, including any
and all data relating to geological formations as the grantor may reasonably deem necessary to his administratio
of the lands.
6. Grantee may make or place such improvements and equipment upon the land as may reasonably be necessary
dispose of salt water, and upon termination of this salt water disposal easement for any reason, grantee may re-
move such improvements and equipment as can be removed without material injury to the premises; provided, howe
that all sums due the grantor have been paid and that such removal is accomplished within one year of the term
nation date or before such earlier date as to the grantor may set upon thirty days written notice to the grant
All improvements and equipment remaining upon the premises after the removal date, as set in accordance with t
paragraph, shall be forfeited to the grantor without compensation. All pipelines constructed hereunder shall
buried below plow depth.

7. This salt water disposal easement is made subject to all the provisions and requirements applicable thereto which are to be found in various acts of the legislature of New Mexico and the rules of the Commissioner of Public Lands of the State of New Mexico, the same as though they were fully set forth herein, and said laws and rules, so far as applicable to this salt water disposal easement, are to be taken as a part hereof.

8. All the obligations, covenants, agreements, rights and privileges of this salt water disposal easement shall extend to and be binding and inure to the benefit of the lawful and recognized assigns or successors in interest of the parties hereto.

9. Grantee shall post with grantor a bond or undertaking in an amount required by grantor in favor of the owner of improvements lawfully located upon the lands herein to secure payment of damage, if any, done to such improvements by reason of grantee's operations.

10. Payment of all sums due hereunder shall be made at the office of the Commissioner of Public Lands, 310 Old Santa Fe Trail, P. O. Box 1148, Santa Fe, New Mexico 87504-1148.

11. Grantee, including his heirs, assigns, agents, and contractors shall at their own expense fully comply with all laws, regulations, rules, ordinances, and requirements of the city, county, state, federal authorities and agencies, in all matters and things affecting the premises and operations thereon which may be enacted or promulgated under the governmental police powers pertaining to public health and welfare, including but not limited to conservation, sanitation, aesthetics, pollution, cultural properties, fire, and ecology. Such agencies are not to be deemed third party beneficiaries hereunder; however, this clause is enforceable by the grantor as herein provided or as otherwise permitted by law.

12. Grantee shall save and hold harmless, indemnify and defend the State of New Mexico, the Commissioner of Public Lands, and his agent or agents, in their official and individual capacities, of and from any and all liability claims, losses, or damages arising out of or alleged to arise out of or indirectly connected with the operations of grantee hereunder, off or on the hereinabove described lands, or the presence on said lands of any agent, contractor or sub-contractor of grantee.

IN WITNESS WHEREOF, the State of New Mexico has hereunto signed and caused its name to be signed by its Commissioner of Public Lands, thereunto duly authorized with the seal of his office affixed, and the grantee has signed this agreement to be effective the day and year above written.

STATE OF NEW MEXICO

BY: *Jimi Baca*
COMMISSIONER OF PUBLIC LANDS
WAGNER & BROWN
BY: *Jack E. Brown*
GRANTEE

STATE OF _____)
COUNTY OF _____) ss.

(PERSONAL ACKNOWLEDGMENT)

The foregoing instrument was acknowledged before me this _____ day of _____, 19____, by _____

STATE OF _____)
COUNTY OF _____) ss.

(ACKNOWLEDGMENT BY ATTORNEY-IN-FACT)

The foregoing instrument was acknowledged before me this _____ day of _____, 19____, as attorney-in-fact on behalf of _____

STATE OF TEXAS)
COUNTY OF MIDLAND) ss.

(ACKNOWLEDGMENT BY ~~XXXXXX~~ PARTNERSHIP)

The foregoing instrument was acknowledged before me this 12 day of DECEMBER, 19 83, by JACK E. BROWN, PARTNER of WAGNER & BROWN (PARTNERSHIP)

My Commission Expires: 7/03/85

Paula J. Hansard
NOTARY PUBLIC
PAULA J. HANSARD

SOLDIER HILL "AE" STATE NO. 1-C
Lea County, New Mexico

INJECTION WELL DATA SHEET

SIDE 1

OPERATOR

LLASF.

WAGNER & BROWN

SOLDIER HILL "AE" STATE

WELL NO.

1

SECTION

800' FNL & 1800' FWL

23

TOWNSHIP

32 East

RANGE

12 South

Schematic

Tabular Data

Surface Casing

Size 11-3/4" " Cemented with 250 sx.

IOC Circ feet determined by _____

Hole size 17"

Intermediate Casing

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

IOC 2750' feet determined by Calculated

Hole size 11"

Long string

Size 5-1/2" " Cemented with 300 sx.

IOC 9700 feet determined by Temp. Survey

Hole size 7-7/8"

Total depth 11,290'

Injection interval

11,224 feet to 11,234 feet Perforated
(perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with Fiberglass (material) set in a

Baker Loc-Set Packer and Halliburton EZSV packer at 10,750 feet
(brand and model)

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation Devonian

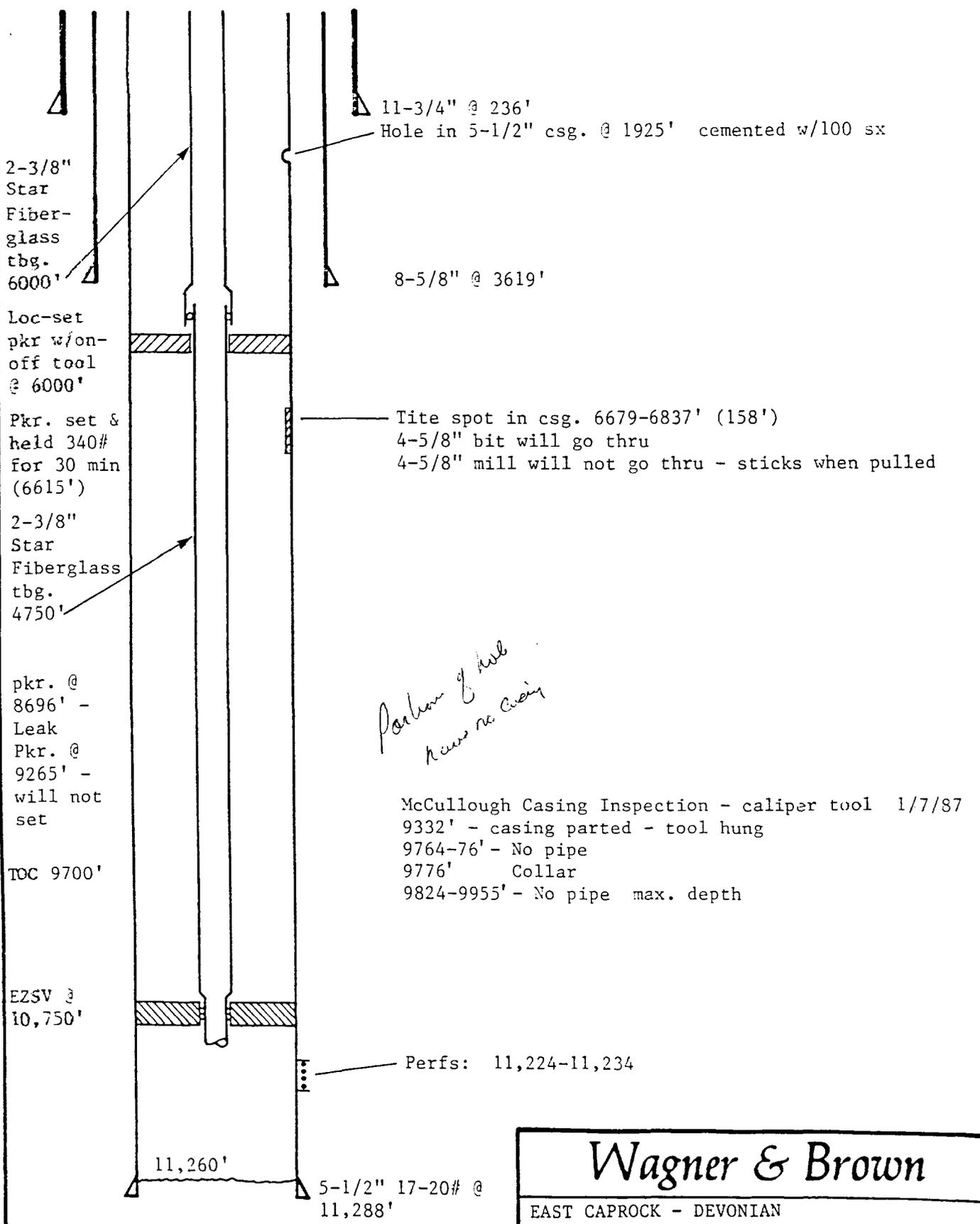
2. Name of field or Pool (if applicable) East Caprock (Devonian)

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

If no, for what purpose was the well originally drilled? The subject well was completed for production from the Devonian formation in the East Caprock-Devonian Pool

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) No
11,224-11,234 (20 Holes)

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. Atoka Sand 10,342' - 10,368'



2-3/8"
Star
Fiber-
glass
tbg.
6000'

Loc-set
pkr w/on-
off tool
@ 6000'

Pkr. set &
held 340#
for 30 min
(6615')

2-3/8"
Star
Fiberglass
tbg.
4750'

pkr. @
8696' -
Leak
Pkr. @
9265' -
will not
set

TOC 9700'

EZSV @
10,750'

11,260'

5-1/2" 17-20# @
11,288'

11-3/4" @ 236'
Hole in 5-1/2" csg. @ 1925' cemented w/100 sx

8-5/8" @ 3619'

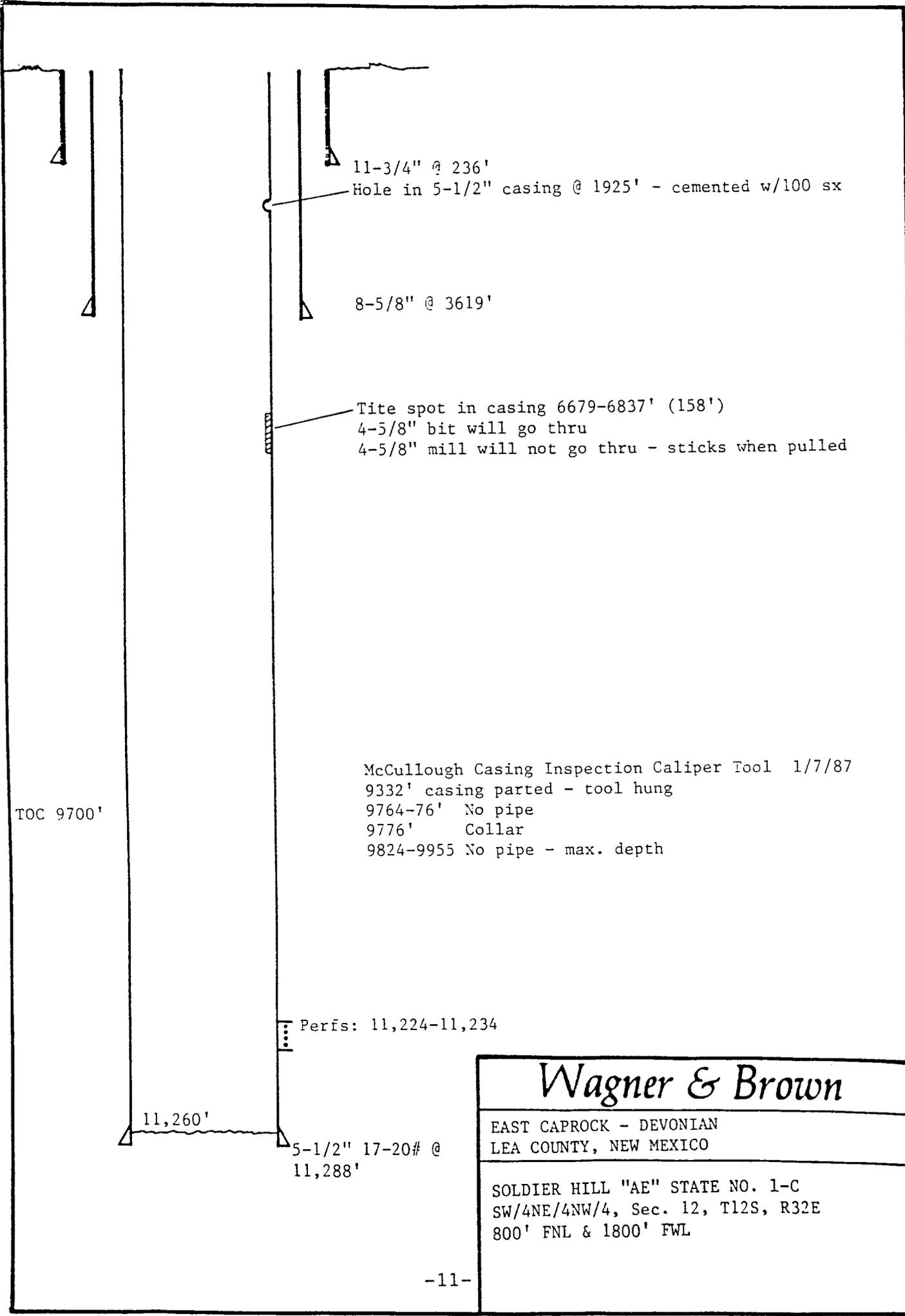
Tite spot in csg. 6679-6837' (158')
4-5/8" bit will go thru
4-5/8" mill will not go thru - sticks when pulled

*Partion of hole
runs no casing*

McCullough Casing Inspection - caliper tool 1/7/87
9332' - casing parted - tool hung
9764-76' - No pipe
9776' Collar
9824-9955' - No pipe max. depth

Perfs: 11,224-11,234

Wagner & Brown
EAST CAPROCK - DEVONIAN LEA COUNTY, NEW MEXICO
SOLDIER HILL "AE" STATE NO. 1-C SW/4NE/4NW/4 Sec. 12, T12S, R32E 800' FNL & 1800' FWL



11-3/4" @ 236'
 Hole in 5-1/2" casing @ 1925' - cemented w/100 sx

8-5/8" @ 3619'

Tite spot in casing 6679-6837' (158')
 4-5/8" bit will go thru
 4-5/8" mill will not go thru - sticks when pulled

McCullough Casing Inspection Caliper Tool 1/7/87
 9332' casing parted - tool hung
 9764-76' No pipe
 9776' Collar
 9824-9955 No pipe - max. depth

Perfs: 11,224-11,234

11,260'
 5-1/2" 17-20# @
 11,288'

Wagner & Brown	
EAST CAPROCK - DEVONIAN LEA COUNTY, NEW MEXICO	
SOLDIER HILL "AE" STATE NO. 1-C SW/4NE/4NW/4, Sec. 12, T12S, R32E 800' FNL & 1800' FWL	

ATTACHMENT TO FORM C-108

SOLDIER HILL STATE "AE" # 1-C
(CLEVELAND SWD WELL)

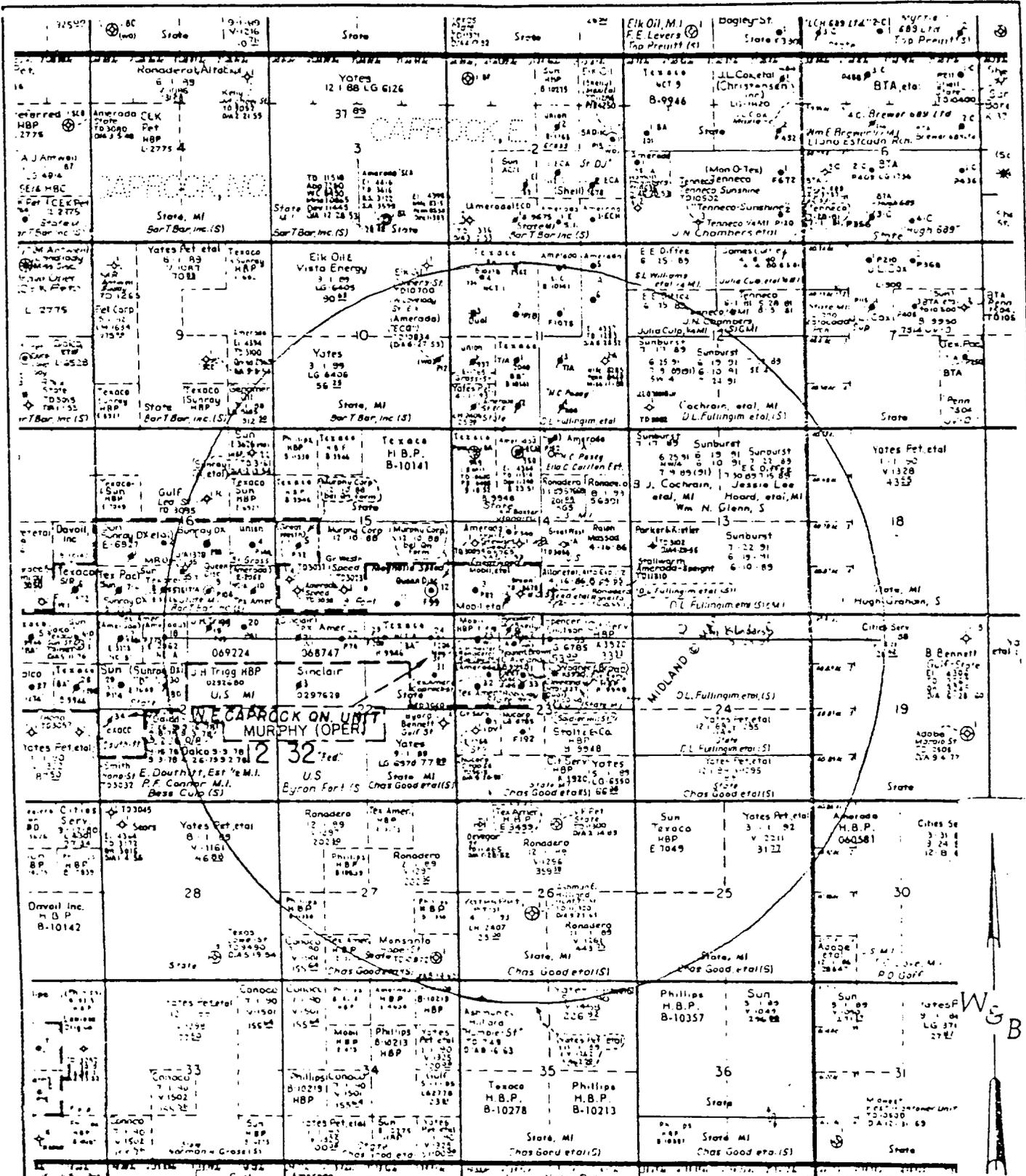
1. CLEAN OUT WELLBORE FROM 9,966'-12,260' (2,294')
@ 400' PER DAY THIS WOULD TAKE 6 DAYS
2. RUN A TOTAL OF 10,750' FIBERGLASS TUBING
3. WILL USE ONE BAKER LOC-SET PACKER AND ONE HALLIBURTON
EZSV RETAINER
4. WILL USE REVERSE RIG FOR 6 DAYS & PULLING UNIT
FOR 8 DAYS

PROCEDURE TO CLEAN OUT

1. MOVE IN & RIG UP PULLING UNIT
2. PERFORATE CASING @ 6,100', SET EZSV @ 6050' AND PUMP
150 SACKS OF CEMENT (600' BEHIND 5-1/2") - GO IN HOLE
W/3-7/8" BIT - SHORT DRILL COLLAR - STRING REAMERS
(4-3/4") - JARS - 5 DRILL COLLARS - 2-7/8" TUBING.
DRILL OUT RETAINER AND CEMENT. CONTINUE IN HOLE TO
9,966'.
3. CLEAN OUT FROM 9,966'-12,260' (POSSIBLY 1 TRIP FOR A
BIT & STRING REAMER)
4. SET HALLIBURTON EZSV RETAINER AT 10,750'
5. RUN EZSV STINGER; 4,750' OF 2-3/8" FIBERGLASS TUBING;
LOC-SET PACKER W/ON-OFF TOOL & 6,000' OF STEEL TUBING -
STRING INTO EZSV AND SET LOC-SET PACKER - RELEASE FROM
ON-OFF TOOL LAY DOWN STEEL WORK STRING
6. RUN ON-OFF TOOL OVERSHOT & 6,000' OF 2-3/8" FIBERGLASS
TUBING. LATCH ONTO LOC-SET PACKER - SPACE WELL OUT -
FLANGE UP WELLHEAD

NOTE: ALL PACKERS AND ACCESSORIES WILL BE NICKEL
COATED

03/08/88



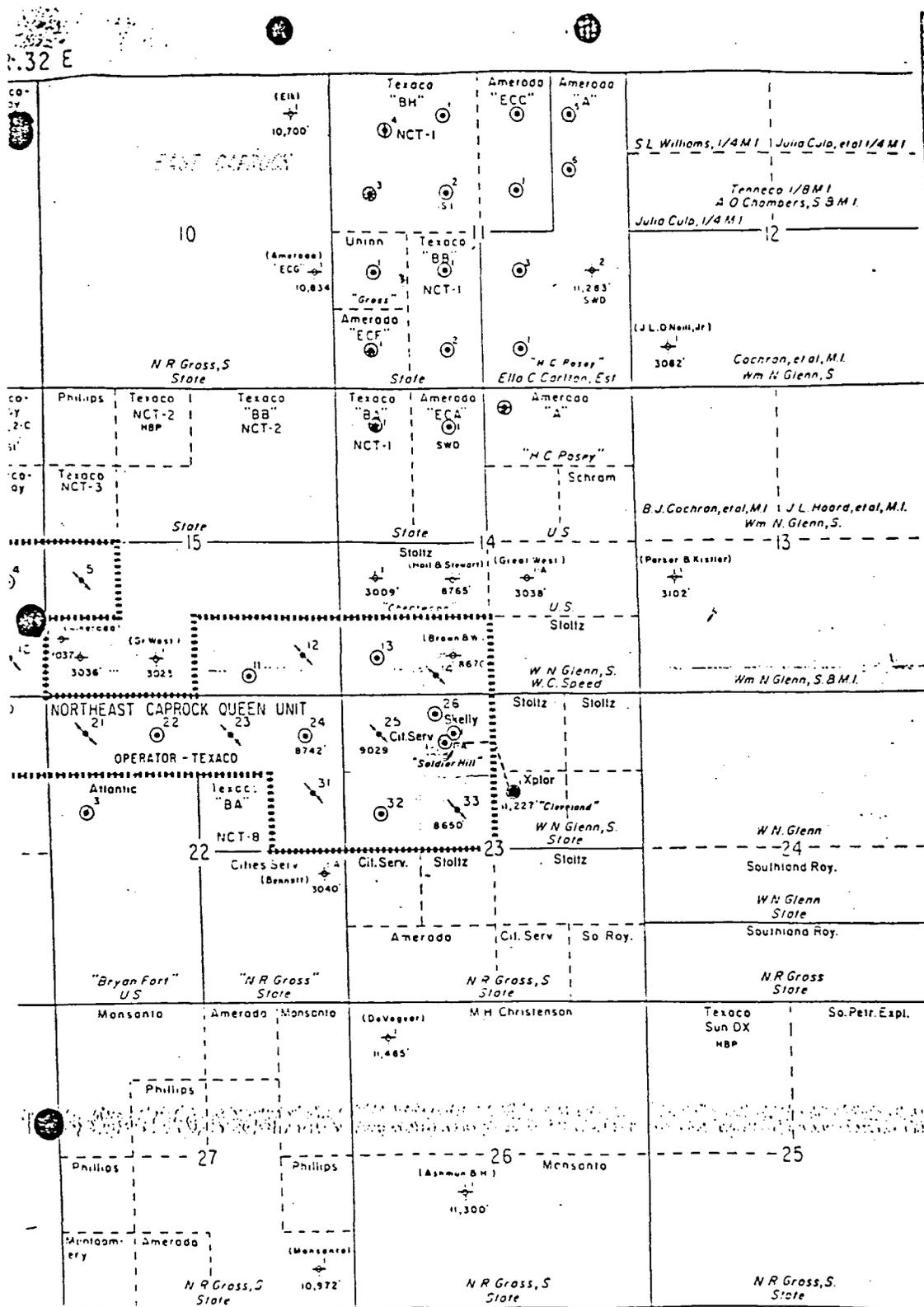
Wagner & Brown

EAST CAPROCK - DEVONIAN
LEA COUNTY, NEW MEXICO

SOLDIER HILL "AE" STATE NO. 1-C
SW/4NE/4NW/4, Sec. 23, T12S, R32E
800' FNL & 1800' FWL

SCALE IN FEET
4000 2000 0 4000 8000

MIDLAND, TEXAS



R 32 E

CAPROCK QUEEN POOL
 NORTHEAST CAPROCK QUEEN UNIT
 LEA COUNTY, NEW MEXICO

UNIT OPERATOR: TEXACO Inc.
 EFFECTIVE DATE OF UNIT: JUNE 1, 1962

SCALE: 0' 2000' 4000'

MAGNER & BROWN
 ● Jil Well - Cleveland
 Com #1

⊙ SWD - Soldier Hill S
 AE #1

--- 2" buried PVC Dispos
 Line

EAST

Soldier Hill "AE" State #1-C
Lea County, New Mexico

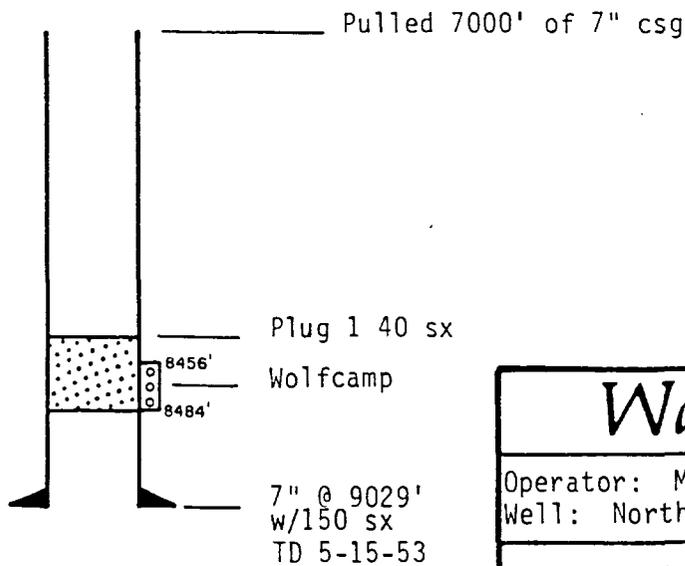
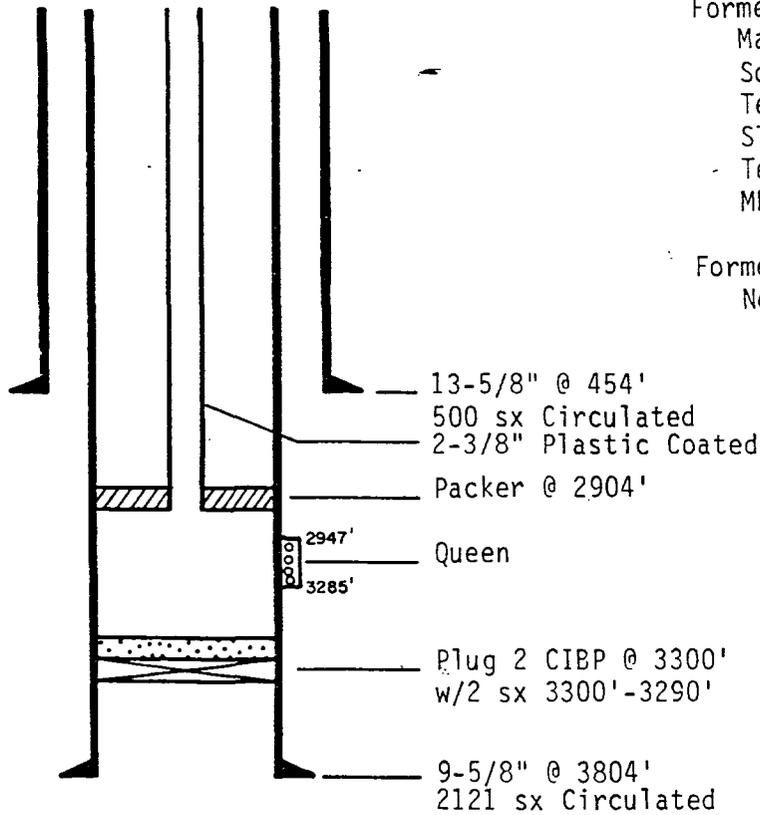
List of Offset P&A Wells:

Murphy Operating Corp.	Northeast Caprock Queen Unit #25 660' FWL & FNL Sec.23-T12S-R32E Lea County, New Mexico
	Northeast Caprock Queen Unit #24 660' FNL & FEL Sec.22-T12S-R32E Lea County, New Mexico
	Northeast Caprock Queen Unit #36-C 660'FNL & 1980'FWL Sec.23-T12S-R32E Lea County, New Mexico
	Northeast Caprock Queen Unit #33 1980' FWL & FNL Sec.23-T12S-R32E Lea County, New Mexico
	Northeast Caprock Queen Unit #32 1980'FNL & 660'FWL Sec.23-T12S-R32E Lea County, New Mexico
Ronadero Company	Ronalto #2 330'FSL & 2310'FEL Sec.14-T12S-R32E Lea County, New Mexico
Brown & Wheeler	Brown & Wheeler #1 560'FSL & 1980'FWL Sec.14-T12S-R32E Lea County, New Mexico
Stallworth Oil & Gas	Amerada-Speight #1 2310'FEL & 660'FSL Sec.14-T12S-R32E Lea County, New Mexico

05-06-88

Former Operators:
 Magnolia Petroleum Company
 Socony Mobil Oil Company, Inc.
 Texaco Inc.
 STM Pipe & Supply, Inc.
 Texas American Oil Corporation
 MR Oil Company

Former Lease Names:
 New Mexico "D" #1

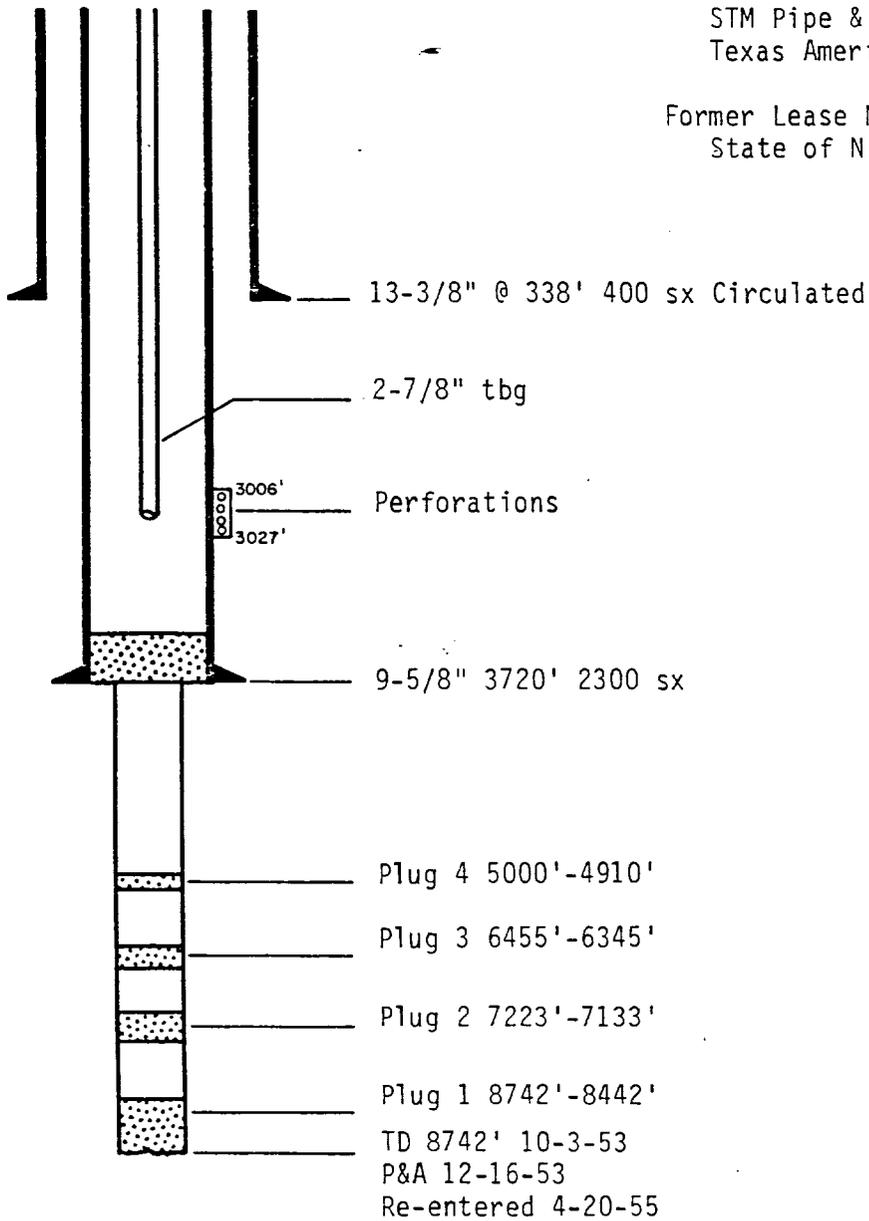


Currently active injection well

Wagner & Brown
Operator: Murphy Operating Corporation Well: Northeast Caprock Queen Unit #25
660' FWL & 660' FNL Sec.23, T12S, R32E Lea County, New Mexico

Former Operators:
 The Texas Company
 Texaco In.
 STM Pipe & Supply, Inc.
 Texas American Oil Corporation

Former Lease Names:
 State of N. M. "BA" NCT-8



Currently well has been SI since 2-87

Listed as SI producer

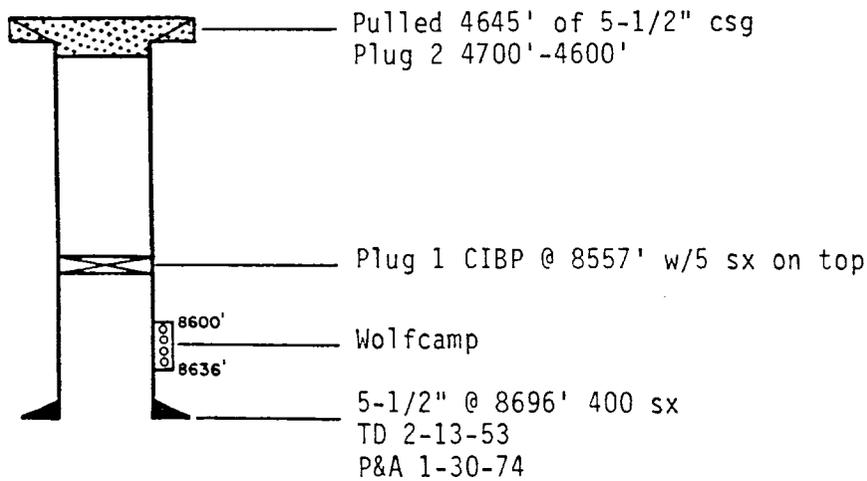
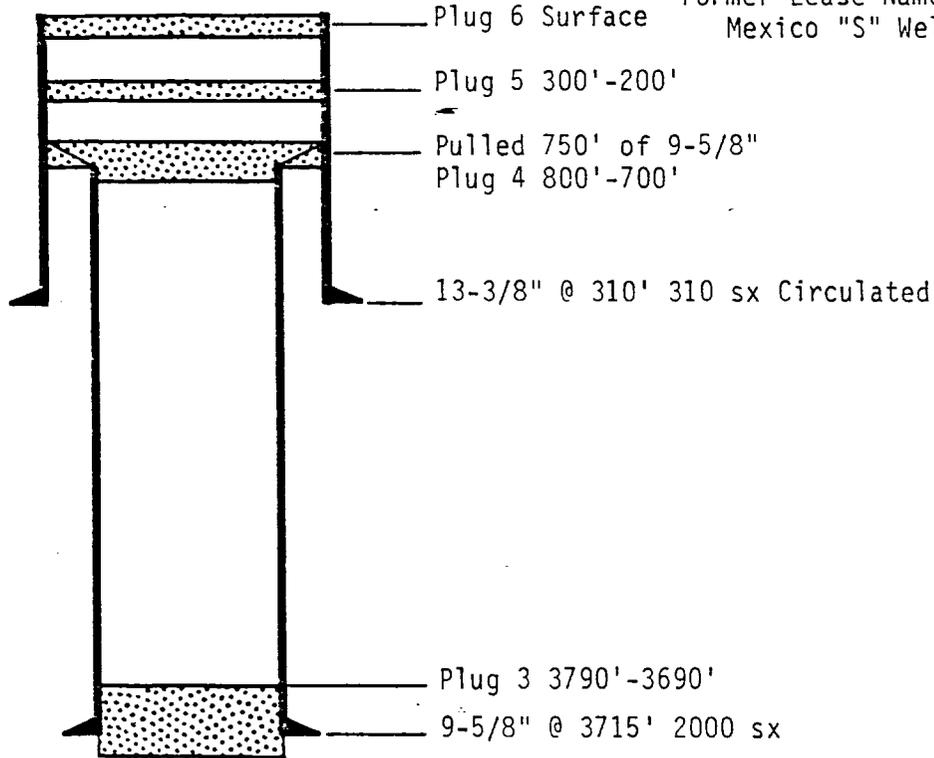
Wagner & Brown

OPERATOR: MURPHY OPERATING CORPORATION
 WELL: NORTHEAST CAPROCK QUEEN UNIT #24

660' FNL & 660' FEL
 Sec. 22-T21S-R32E
 Lea County, New Mexico

Former Operators:
Weldon S. Guest & I.J. Wolfson

Former Lease Names:
Mexico "S" Well No.1



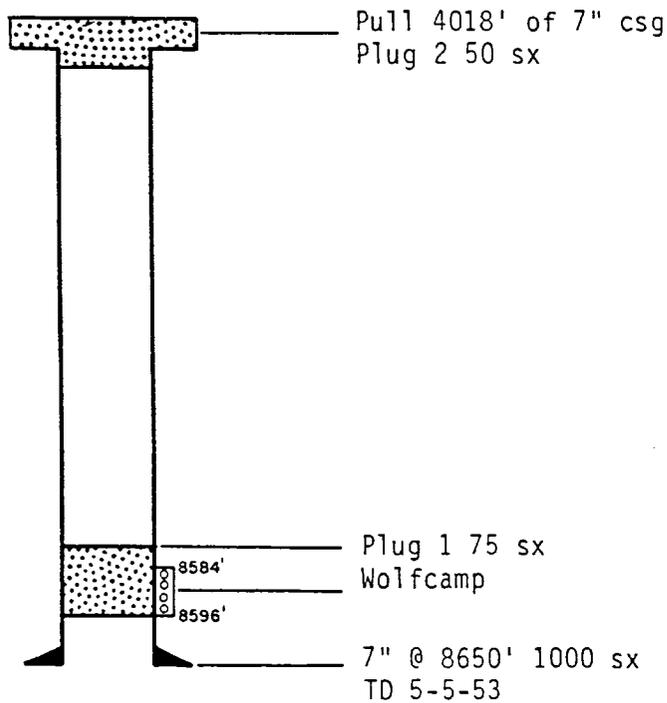
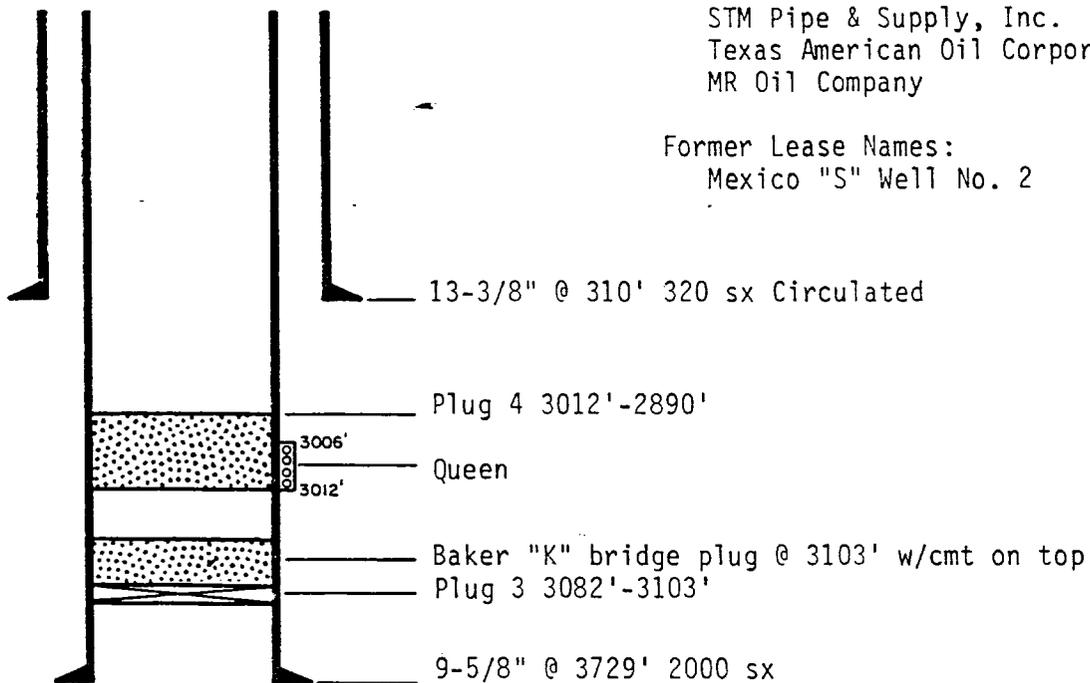
Wagner & Brown

OPERATOR: MURPHY OPERATING COMPANY
WELL: NORTHEAST CAPROCK QUEEN UNIT #36-C

660' FNL & 1980' FWL
Sec. 23-T12S-R32E
Lea County, New Mexico

Former Operators:
 Skelly Oil Company
 Texaco Inc.
 STM Pipe & Supply, Inc.
 Texas American Oil Corporation
 MR Oil Company

Former Lease Names:
 Mexico "S" Well No. 2



Currently well has been SI since 1-85
 Listed as TA injection well

Wagner & Brown

OPERATOR: MURPHY OPERATING CORPORATION
 WELL: NORTHEAST CAPROCK QUEEN UNIT #33

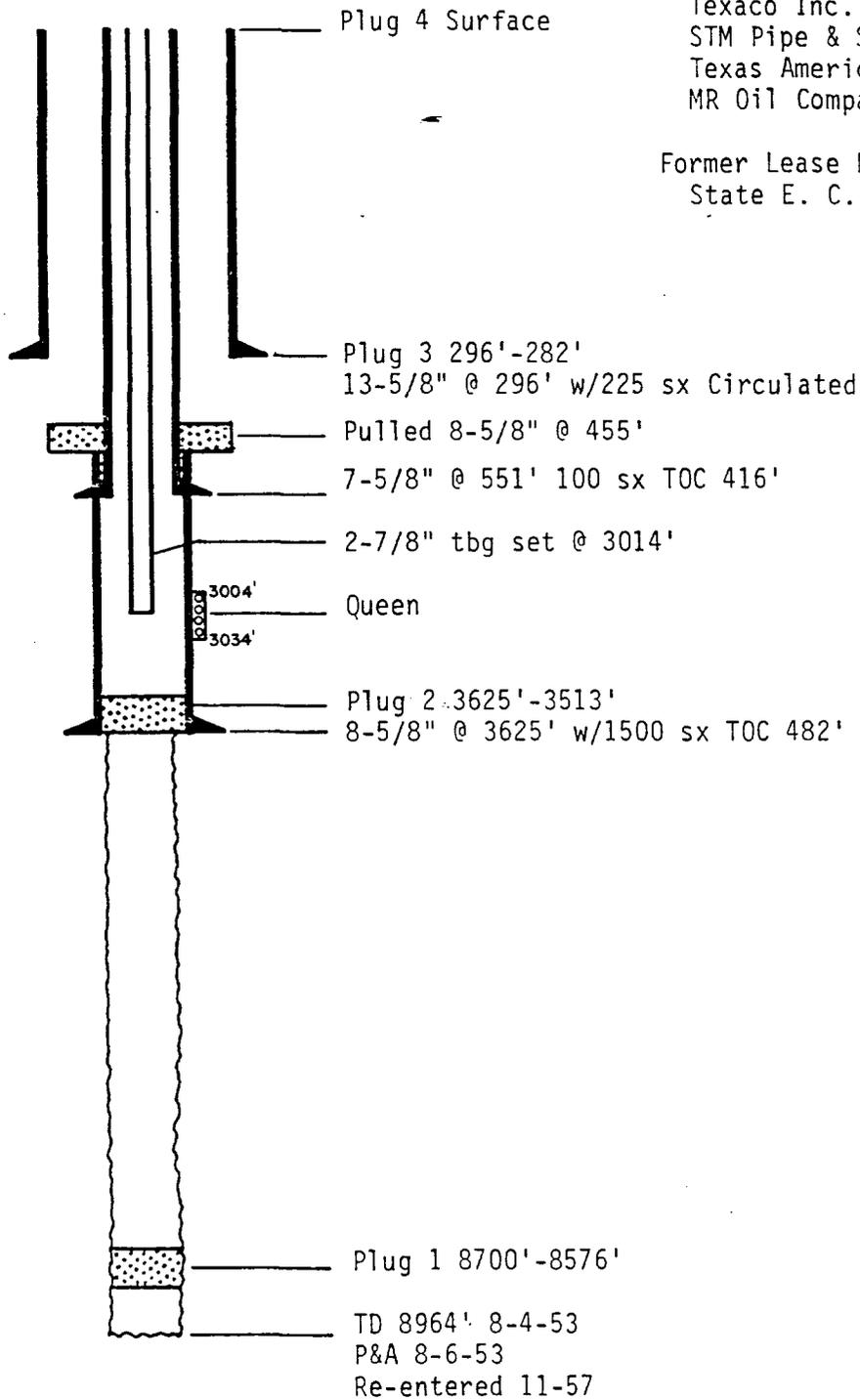
1980' FWL & 1980' FNL
 Sec. 23-T12S-R32E
 Lea County, New Mexico

Former Operators:

Amerada Petroleum Corporation
Texaco Inc.
STM Pipe & Supply, Inc.
Texas American Oil Corporation
MR Oil Company

Former Lease Names:

State E. C. "I" #1

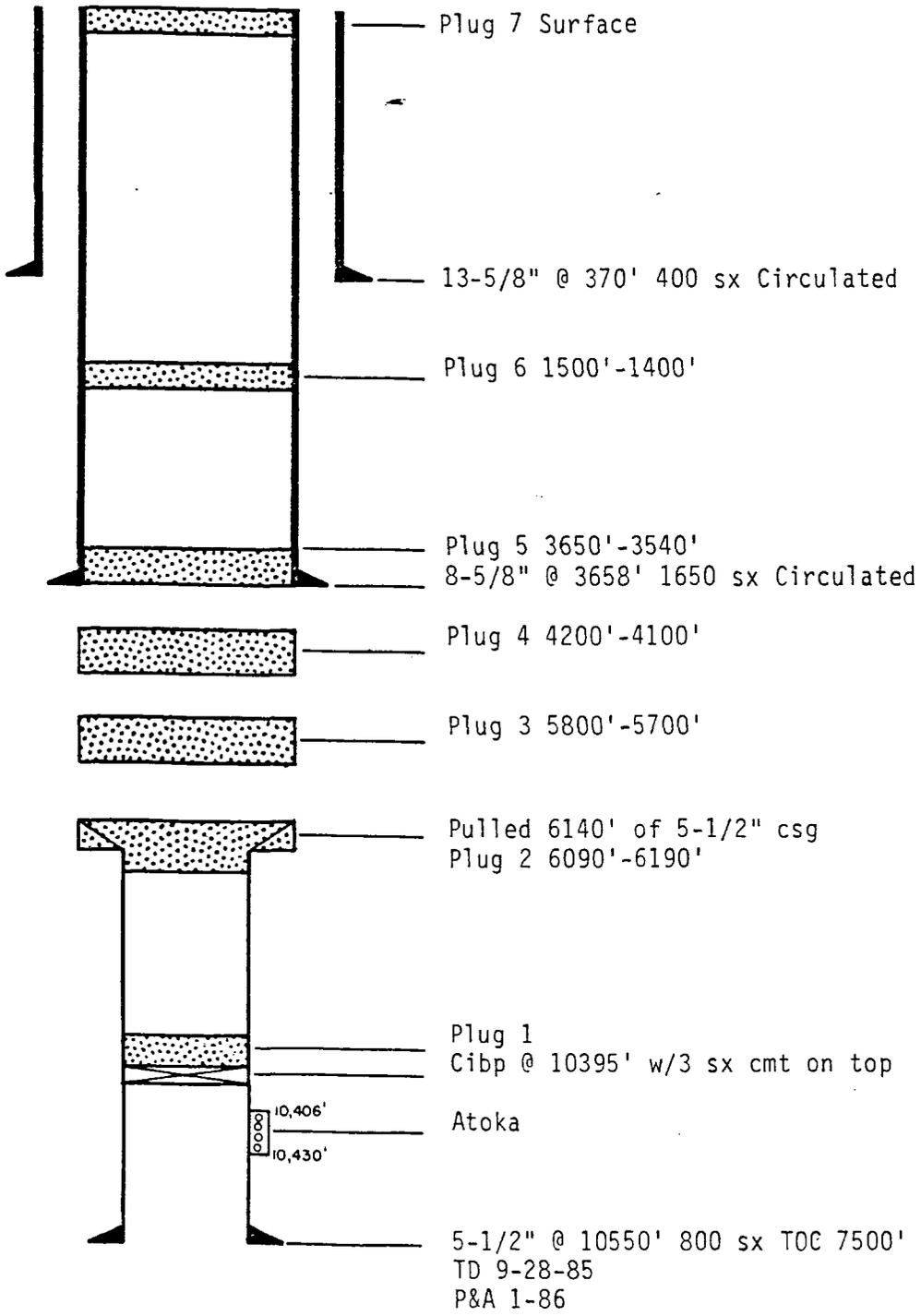


Currently well has been SI since 2-87
Listed as SI producer

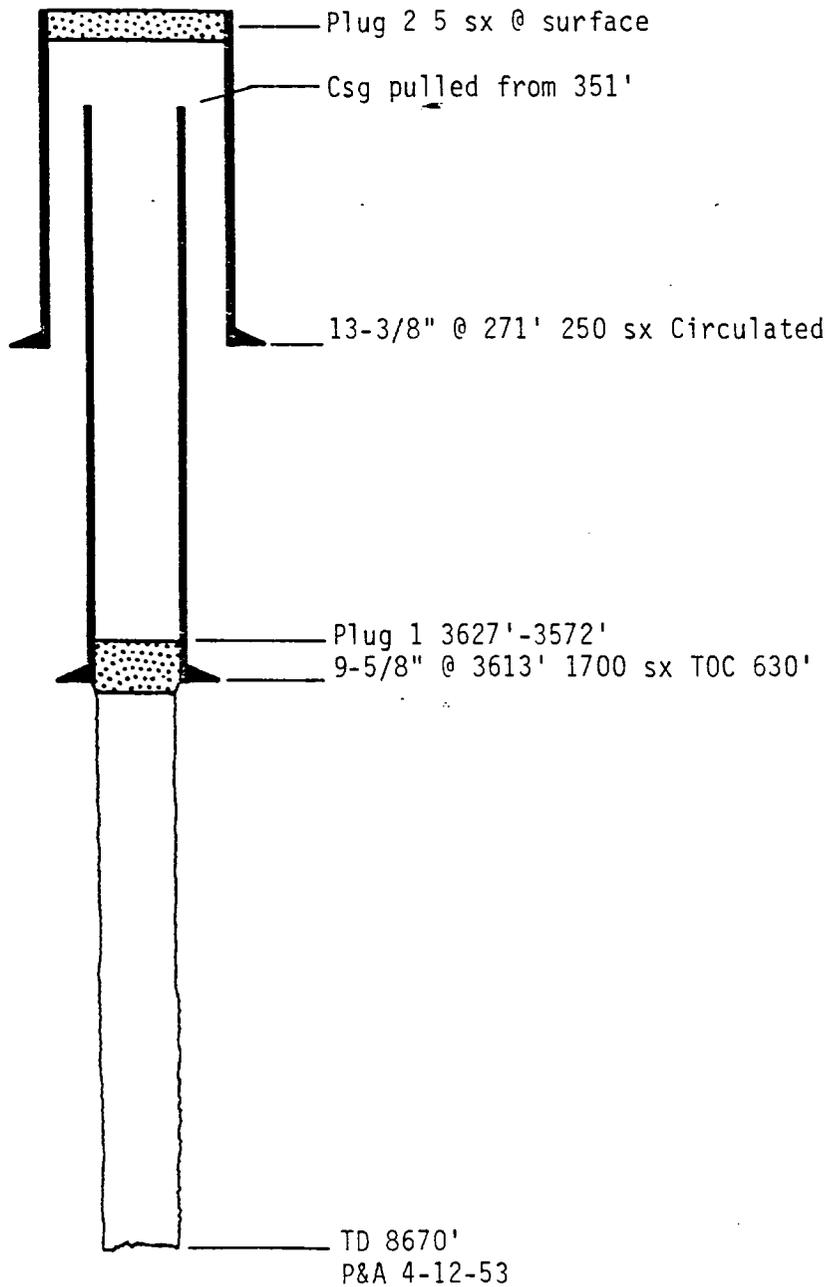
Wagner & Brown

OPERATOR: MURPHY OPERATING CORPORATION
WELL: NORTHEAST CAPROCK QUEEN UNIT #32

1980' FNL & 660' FWL
Sec. 23-T12S-R32E
Lea County, New Mexico



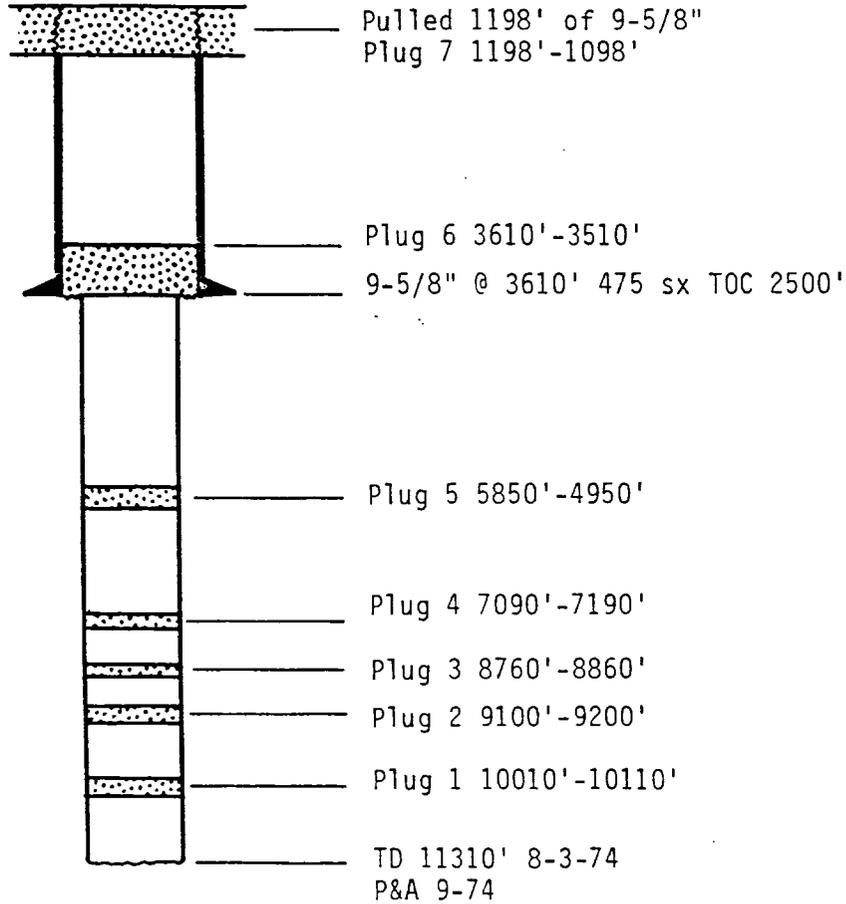
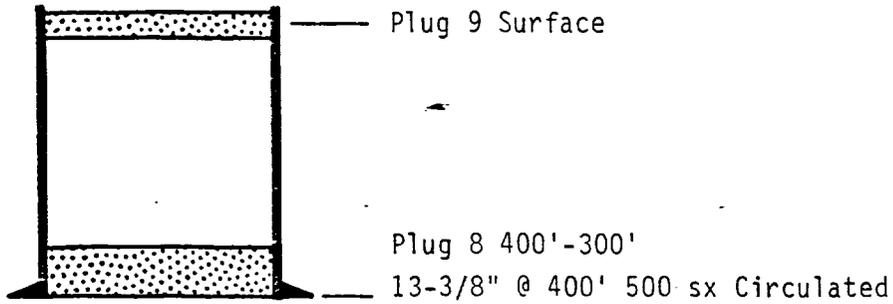
<h1>Wagner & Brown</h1>	
OPERATOR: RONADERO COMPANY	
WELL: RONALTO #2	
330' FSL & 2310' FEL Sec. 14-T12S-R32E Lea County, New Mexico	



Wagner & Brown

OPERATOR: BROWN & WHEELER
 WELL: BROWN & WHEELER #1

560' FSL & 1980' FWL
 Sec. 14-T12S-R32E
 Lea County, New Mexico



Wagner & Brown

OPERATOR: STALLWORTH OIL & GAS
WELL NAME: AMERADA-SPEIGHT #1

2310' FEL & 660' FSL
Sec. 14-T12S-R32E
Lea County, New Mexico

ATTACHMENT TO FORM C 108

LIST OF OFFSET OPERATORS

Kelly H. Baxter P. O. Box 11193 Midland, Texas 79702	P 750 489 681
Cities Service Oil and Gas Corp. P. O. Box 1919 Midland, Texas 79702	P 750 489 682
Mobil Producing Texas & NM, Inc. Nine Greenway Plaza, Suite 2700 Houston, Texas 77046	P 750 489 683
Murphy Operating Corp. P. O. Box 2648 Roswell, NM 88201	P 750 489 684
Ronadero Company, Inc. P. O. Box 430 Roswell, NM 88201	P 750 489 685
Spencer & Hutson 507 West Tennessee Midland, Texas 79701	P 750 489 686
Texas American Oil Corp. 300 West Wall, Suite 400 Midland, Texas 79701	P 750 489 687

COPIES SENT TO THE FOLLOWING

New Mexico Oil Conservation Division Attn: David Catanach P. O. Box 2088 Santa Fe, NM 87501	P 750 489 688
New Mexico Oil Conservation Division Attn: Jerry Sexton P. O. Box 2980 Hobbs, NM 88242-1980	P 750 489 689
New Mexico State Land Office P. O. Box 1148 State Land Office Bldg. Santa Fe, NM 87501	P 750 489 690
Tom Kellahin P. O. Box 2265 Santa Fe, NM 87504-2265	P 750 489 691

P 750 489 690

RECEIPT FOR CERTIFIED MAIL

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

Sent to NM state Land Office	
Street and No Box 1148 State Land Office Bldg	
P.O. State and ZIP Code Santa Fe, NM 87501	
Postage	\$ 1.05
Certified Fee	85
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	90
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$ 2.80
Postmark or Date	6 1988 USPO

PS Form 3800, June 1985

P 750 489 689

RECEIPT FOR CERTIFIED MAIL

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

Sent to New Mexico Oil Consm. Div.	
Street and No Box 2980	
P.O. State and ZIP Code HOBBS, NM 88240-1980	
Postage	\$ 1.05
Certified Fee	85
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	90
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$ 2.80
Postmark or Date	6 1988 USPO

PS Form 3800, June 1985

P 750 489 687

RECEIPT FOR CERTIFIED MAIL

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

Sent to Texas Amer. Oil Corp.	
Street and No 300 W. Wall #400	
P.O. State and ZIP Code Midland, TX 79701	
Postage	\$ 1.05
Certified Fee	85
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	90
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$ 2.80
Postmark or Date	6 1988 USPO

PS Form 3800, June 1985

P 750 489 686

RECEIPT FOR CERTIFIED MAIL

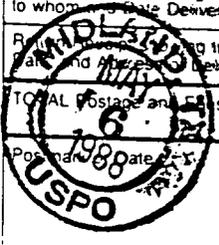
NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL
(See Reverse)

Sent to Spencer & Hutson	
Street and No 507 W. Tennessee	
P.O. State and ZIP Code Midland, TX 79701	
Postage	\$ 1.05
Certified Fee	95
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	90
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$ 2.80
Postmark or Date	6 1988 USPO

PS Form 3800, June 1985

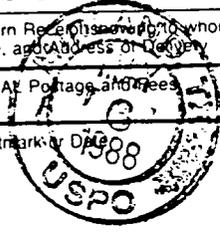
750 489 685
RECEIPT FOR CERTIFIED MAIL
 NO INSURANCE COVERAGE PROVIDED
 NOT FOR INTERNATIONAL MAIL
 (See Reverse)

Sent to <i>Roadero Co.</i>	
Street and No. <i>Box 430</i>	
P.O. State and ZIP Code <i>ROSWELL, NM 88201</i>	
Postage	\$ <i>1.05</i>
Certified Fee	\$ <i>85</i>
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	<i>90</i>
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$ <i>2.80</i>
Postmark of Date	<i>MAY 6 1988</i>



P 750 489 683
RECEIPT FOR CERTIFIED MAIL
 NO INSURANCE COVERAGE PROVIDED
 NOT FOR INTERNATIONAL MAIL
 (See Reverse)

Sent to <i>MOBIL PROD.</i>	
Street and No. <i>9 GREENWAY #2700</i>	
P.O. State and ZIP Code <i>HOUSTON, TX 77046</i>	
Postage	\$ <i>1.05</i>
Certified Fee	\$ <i>85</i>
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	<i>90</i>
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$ <i>2.80</i>
Postmark of Date	<i>MAY 6 1988</i>



PS Form 3800, June 1985

P 750 489 682
RECEIPT FOR CERTIFIED MAIL
 NO INSURANCE COVERAGE PROVIDED
 NOT FOR INTERNATIONAL MAIL
 (See Reverse)

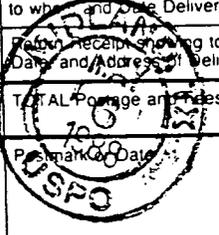
Sent to <i>Cities Service O & G</i>	
Street and No. <i>Box 1919</i>	
P.O. State and ZIP Code <i>MIDLAND, TX 79702</i>	
Postage	\$ <i>1.05</i>
Certified Fee	\$ <i>85</i>
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	<i>90</i>
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$ <i>2.80</i>
Postmark of Date	<i>MAY 6 1988</i>



PS Form 3800, June 1985

P 750 489 681
RECEIPT FOR CERTIFIED MAIL
 NO INSURANCE COVERAGE PROVIDED
 NOT FOR INTERNATIONAL MAIL
 (See Reverse)

Sent to <i>Kelly H. Baxter</i>	
Street and No. <i>Box 11193</i>	
P.O. State and ZIP Code <i>MIDLAND, TX 79702</i>	
Postage	\$ <i>1.05</i>
Certified Fee	\$ <i>85</i>
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	<i>90</i>
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$ <i>2.80</i>
Postmark of Date	<i>MAY 6 1988</i>



PS Form 3800, June 1985

P 750 489 691

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to <i>Tom Kellahin</i>	
Street and No. <i>Box 2265</i>	
P.O., State and ZIP Code <i>Santa Fe, NM 87504-2265</i>	
Postage	\$ <i>1.05</i>
Certified Fee	<i>85</i>
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	<i>90</i>
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$ <i>2.80</i>
Postmark or Date <i>1988</i>	

PS Form 3800, June 1985



P 750 489 684

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to <i>Murphy Oper.</i>	
Street and No. <i>Box 2648</i>	
P.O., State and ZIP Code <i>Roswell, NM 88201</i>	
Postage	\$ <i>1.05</i>
Certified Fee	<i>85</i>
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	<i>90</i>
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$ <i>2.80</i>
Postmark or Date <i>1988</i>	

PS Form 3800, June 1985

