

GOVERNOR

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

4/12/00

POST OFFICE BOX 1980 HOBBS, NEW MEXICO 88241-1980 (505) 393-6161

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

RE: Proposed:

MC
DHC
NSL
NSP
SWD
WFX
PMX

Gentlemen:
I have examined the application for the:

Saga Petroleum LPCo Haler State Com 2-A-21-(35-32e)
Operator Lease & Well No. Unit S-T-R API \$30-025-226

and my recommendations are as follows:

Chris Williams

Yours very truly,

Supervisor, District 1

/ed

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION 2040 SOUTH PACHECO SANTA FE, NEW MEXICO 87505

FORM C-108 Revised 4-1-98

APPLICATION FOR AUTHORIZATION TO INJECT

I.	PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage Application qualifies for administrative approval? X Yes No					
II.	OPERATOR: Saga Petroleum LLC					
	ADDRESS: 415 W. Wall, #835, Midland, TX 79701					
	CONTACT PARTY: Joe Clement PHONE: 915-684-4293					
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 X 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:					
	 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 geologic data on the injection zone including appropriate lithologic detail, geologic 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 sources 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 sources 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: Joe N. Clement TITLE: New Mexico Engineer					
	SIGNATURE: DATE: 32800					
*	If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal:					
	1 (case show the date date electristations of the same)					

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 the 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, 2040 South Pacheco, Santa Fe, New Mexico 87505, 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.

Aztec State Com #2 660' FNL & 660' FEL Unit A, Sec. 26-T13S-R32E Lea County, New Mexico

Application for Authorization to Inject

- VI. Attached is a tabulation of all wells of public record that fall within the ½ mile radius of the proposed SWD well, the Aztec State Com #2. This investigation has further shown that all these wells have a good cement seal around their casing shoe and will therefore prevent the upward migration of the disposed water into any potable water zone. The Aztec State Com #2 was swab tested in October, 1999, and failed to produce any hydrocarbons.
- VII. The proposed average daily injection rate for the subject well is 1,000 BWPD; the maximum daily injection rate would be 2,000 BWPD. This will be a closed system with an average pressure of zero and a maximum pressure of 1000 psi. Only produced Bough water will be injected in the proposed well, so incompatibility will not be a problem.
- VIII. The injection zone is a limestone, a part of the Bough formation. The top of the Bough "A" in this well is at 9466, and is approximately 400' thick. The zone has been selectively perforated from 9742' 9800', a part of the Bough "D" formation. The main source of drinking water in this area comes from the Ogallala formation, the base of which is at 140'. There are no known sources of drinking water underlying the injection interval.
- IX. After casing integrity testing, the well will be stimulated with 1000 gallons of 15% NEFE HCl and ball sealers.
- X. Log and test data is on file with the Division.
- XI. Attached is an analysis of the water from a water well approximately 1 mile east of the proposed disposal.
- XII. Saga Petroleum LLC has examined the available geologic and engineering data and can find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.
- XIII. The required "Proof of Notice" is attached.

OPERATOR: Saga Petroleum	LOCATION: Sec. 26, T13S, R32E, Lea County, NM
LEASE: Aztec State Com #2	Unit A, 660' FNL & 660' FEL

13% " casing set at 3% ' with 4% sx of cement. Hole Size: 17% ". TOC @ Surface by circ.

<u>\$ \frac{4}{8}_{\text{"}}\$ casing set at <u>4060</u> 'with <u>200</u> sx of cement. Hole Size: <u>| | | ". TOC @ 328| by Calc ...</u></u>

Perfs - <u>9743 - 9799'</u>

<u>5 1/2</u> " casing set at <u>10315'</u> with <u>425</u> sx of cement.

Hole Size: <u>77/8</u> ". TOC @ <u>8725'</u> by <u>calc</u>.

INJECTION WELL DATA SHEET

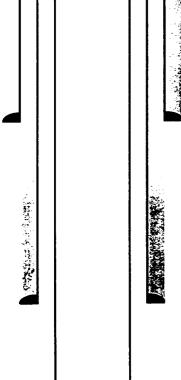
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Offset wells to the Aztec State Com #2

Well	Location	Surface Casing	Inter. Casing	Prod. Casing	2	Completions	P&A
	Sec. 24-T13S-R32E	11 3/4" @ 415	8 5/8" @ 3960'	5 1/2" @ 10000'			P.W/d
State 24 #1	Unit M	Cmt. w/ 400 sx	Cmt w/ 400 sx	Cmt w/ 500 sx	10000	9780-9789	Schematic
Spud 3/1/69	660' FSL & 660' FWL	TOC @ surf by circ.	TOC @ 2780' by TS	TOC @ 7910' by TS			Attached
	Sec. 23-T13S-R32E	13 3/8" @ 412'	8 5/8" @ 3990'	5 1/2" @ 10003'		9754-9765	P.W/d
NM State JJ #1	Unit O	Cmt. w/ 375 sx	Cmt w/ 920 sx	Cmt w/ 250 sx	10003	9781-9796'	Schematic
89/9/E pndS	660' FSL & 1980' FEL	TOC @ surf by circ.	TOC @ 550' by TS	TOC @ 8320' by TS		9798-9845	Attached
	Sec. 26-T13S-R32E	13 3/8" @ 380'	8 5/8" @ 4060'	5 1/2" @ 10315			
Aztec State Com #2	Unit A	Cmt. w/ 400 sx	Cmt w/ 200 sx	Cmt w/ 425 sx	10315	9743-9799'	
Spud 1/4/69	660' FNL & 660' FEL	TOC @ surf by circ.	TOC @ 3281' by calc.	TOC @ 8725' by calc.			
	Sec. 26-T13S-R32E	13 3/8" @ 391'	8 5/8" @ 4050'				P,V/d
Aztec State #3	Unit 1	Cmt. w/ 400 sx	Cmt w/ 300 sx	N/A	.9666		Schematic
Spud 2/12/69	1980' FSL & 660' FEL	TOC @ surf by circ.	TOC @ 2882' by calc.				Attached
	Sec. 25-T13S-R32E	13 3/8" @ 416'	8 5/8" @ 4055	5 1/2" @ 10000'			
Aztec State Com #4	Unit P	Cmt. w/ 250 sx	Cmt w/ 300 sx	Cmt w/ 400 sx	10000	9816-9840'	
Spud 6/20/70	554' FSL & 554' FEL	TOC @ surf by circ.	TOC @ 2769' by calc.	TOC @ 8052' by calc.			
	Sec. 26-T13S-R32E	13 3/8" @ 355	8 5/8" @ 4060'	5 1/2" @ 9772'			
Aztec State Com #5	Unit C	Cmt. w/ 350 sx	Cmt w/ 400 sx	Cmt w/ 350 sx	9773'	9756-9809'	
Spud 4/15/69	660' FNL & 1980' FWL	TOC @ surf by circ.	TOC @ 2502' by calc.	TOC @ 7912' by calc.			

OPERATOR: Saga Petroleum	LOCATION: Sec. 25, T13S, R32E, Lea County, NM
LEASE: Aztec State Com #4	Unit P, 554' FNL & 554' FEL



13% " casing set at 416 ' with 250 sx of cement.

Hole Size: 171/2 ". TOC @ Swface by circ.

8% casing set at 4055 with 300 sx of cement.

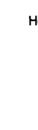
Hole Size: 11 . TOC @ 2769 by Calc .

Perfs - 9816 - 9840

 $5\frac{1}{2}$ casing set at 10000 with 400 sx of cement.

Hole Size: 77% ". TOC @ 8052' by calc.

OPERATOR: Saga Petroleum	LOCATION: Sec. 26, T13S, R32E, Lea County, NM
LEASE: Aztec State Com #5	Unit C, 660' FNL & 1980' FWL



 $13\frac{\%}{8}$ " casing set at 355 ' with 350 sx of cement. Hole Size: $17\frac{\%}{8}$ ". TOC @ Surface by circ.

8 " casing set at 4060 ' with 400 sx of cement.

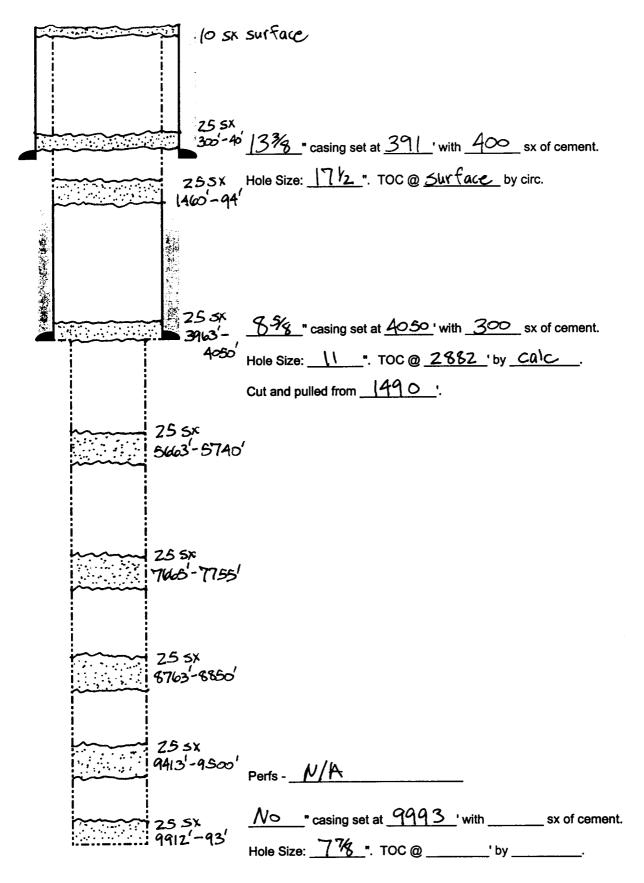
Hole Size: ______". TOC @ 2502' by _______.

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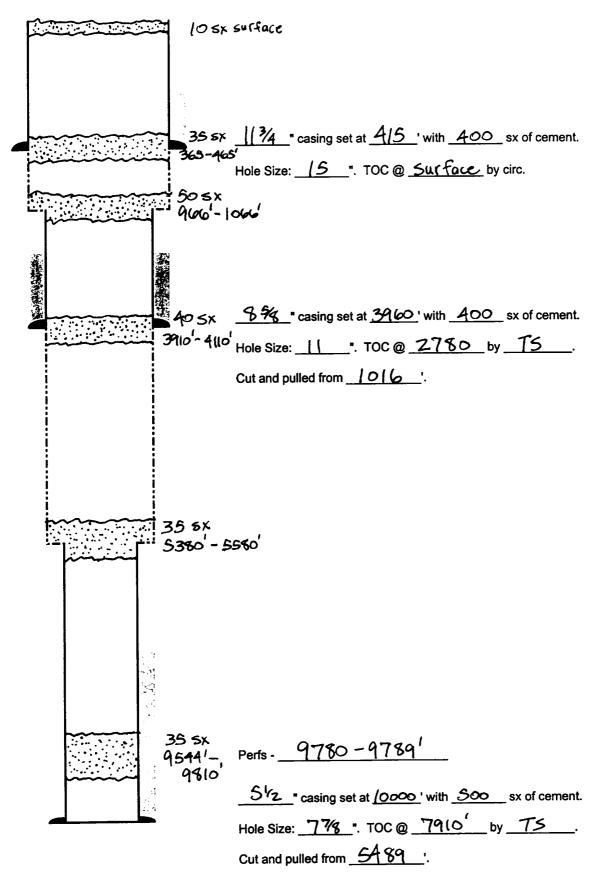
Perfs - 9756 - 9809'

 $5\frac{1}{2}$ " casing set at 9772 ' with 350 sx of cement. Hole Size: 778 ". TOC @ 7912 by Calc.

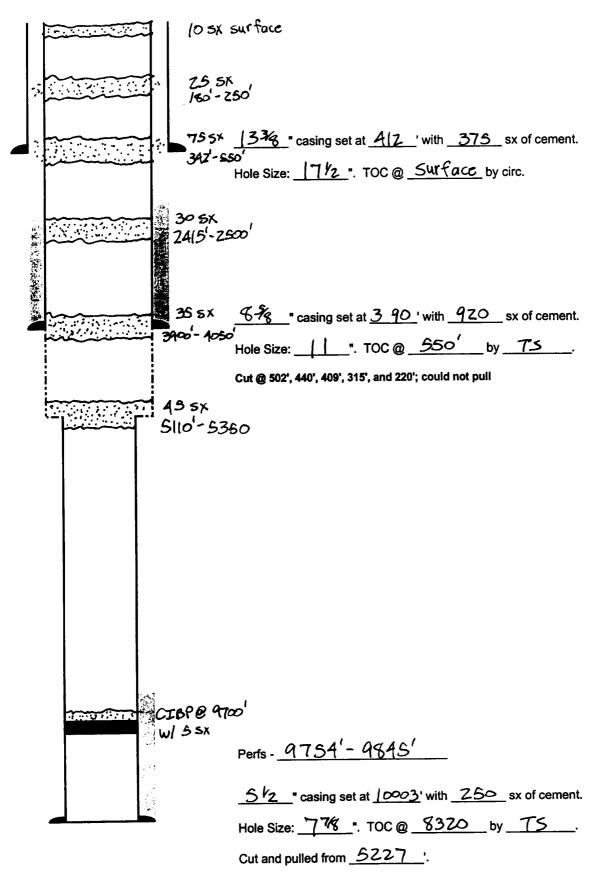
OPERATOR: Robert B. Holt	LOCATION: Sec. 26, T13S, R32E, Lea County, NM
LEASE: Aztec State #3	Unit I, 1980' FSL & 660' FEL



OPERATOR: Union Texas	LOCATION: Sec. 24, T13S, R32E, Lea County, NM
LEASE: State "24" #1	Unit M, 660' FSL & 660' FWL



OPERATOR: Sun Oil	LOCATION: Sec. 23, T13S, R32E, Lea County, NM
LEASE: New Mexico "JJ" State #1	Unit O, 660' FSL & 1980' FEL





MILLER CHEMICALS, INC.

Post Office Box 298 Artesia, N.M. 88211-0298 (505) 746-1919 Artesia Office (505) 393-2893 Hobbs Office (505) 746-1918 Fax

WATER ANALYSIS REPORT _____

Company : SAGA
Address :
Lease : EAST WATER WELL
Well : 1
Sample Pt. : Date : 3-22-00 Date Sampled: 3-21-00 Analysis No. :

	ANALYSIS		mg/L		* meq/L
1.	рн 7.5				
2.	H2S 0				
3.					
4.			1009.9		
5.			NR		
6.	Dissolved Oxygen		NR		
7.	Dissolved CO2		NR		
8.	Oil In Water		NR		
9.		CaCO3)			
10.	Methyl Orange Alkalinity (Ca	.CO3)			
11.		HCO3	146.0	HCO3	2.4
12.	Chloride	Cl	380.0	Cl	10.7
13.	Sulfate	SO4	150.0	SO4	3.1
14-	Calcium	Ca	120.0	Ca	6.0
15.	Magnesium	Mg	24.4	Mg	2.0
16.	Sodium (calculated)	Na	189.5	Na	8.2
17.	Iron	Fe	0.0		
18.	Barium	Ba	0.0		
19.	Strontium	Sr	0.0		
20.	Total Hardness (CaCO3)		400.0		

PROBABLE MINERAL COMPOSITION _____

*milli equivalents per Liter Compound Equiv wt X meq/L = mg/L ----- +----+
| 6| *Ca <----- *HCO3 | 2| Ca(HCO3)2 81.0 2.4 194
|-----| /-----> |-----| CaSO4 68.1 3.1 213
| 2| *Mg ----> *SO4 | 3| CaC12 55.5 0.5 26
|-----| <------| Mg(HCO3)2 73.2
| 8| *Na ----> *Cl | 11| MgSO4 60.2
| +----+ HgC12 47.6 2.0 95
| Saturation Values Dist. Water 20 C NaHCO3 84.0
| CaCO3 13 mg/L Na2SO4 71.0
| CaSO4 2H2O 2090 mg/L NaCl 58.4 8.2 482
| RaSO4 2.4 mg/L +----+ CaCO3 13 mg/L CaSO4 * 2H2O 2090 mg/L PaSO4 2 4 mg/L BaSO4 2.4 msg/L

REMARKS:

AFFIDAVIT OF PUBLICATION

State of New Mexico, County of Lea.

I, KATHI BEARDEN

Publisher
of the Hobbs News-Sun, a 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
weeks. Beginning with the issue dated
March 7
and ending with the issue dated
March 7 2000
Kobi Burde
Publisher Sworn and subscribed to before
me this 7th day of
March 2000 Godi Genson
Notary Public.
My Commission expires

LEGAL NOTICE
March 7, 2009
NOTICE OF PRODUCED
WATER DISPOSAL WELL
Saga Petroleum Limited Liability Co. of Colorado, 415 W.
Wall, Suite 835, Midland,
Texas 79701, 915-684-4293, contact Joe N. Clement, has made application for a produced water disposal well with the New Mexico Oil Conservation Commission. The well, known as the Asia State Com #2, is located for FNL and 860; FFL, Sala T13S-R32E, Lea Control Commission of the Baum Upper, I was and pressure is an ed-to-be 1,000 BWS2 1000 PSI. Internal 1,000 BWS2 1000 BWS2 100

#17244

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.

October 18, 2000

(Seal)

02101450000 02535885 Saga Petroleum 415 W. Wall St. Suite 835 Midland, TX 79701 Aztec State Com #2 660' FNL & 660' FEL Unit A, Sec. 26-T13S-R32E Lea County, New Mexico

Offset Operators

Mobil PO Box 633 Midland, TX 79702

Read & Stevens PO Box 1518 Roswell, NM 88201

C.L. House 401 W. Texas Midland, TX 79701

Robert B. Holt 6 Desta Drive, #6400 Midland, TX 79705

US Postal Service

	US Postal Service Receipt for Certified Mail No Insurance Coverage Provided. Do not use for International Mail (See reverse)						
	Sent to Robert P	5. Holt					
	Street & Number 6 Desta Pri						
	Post Office, State, & ZIP Coo	r 79705					
	Postage	s .99					
	Certified Fee	1.40					
	Special Delivery ST						
April 1995	Restricted Delivery Fee	. '\$					
	Return Receipt Shearing to Whom & Date Defrared	18/25					
Ž	Return Reclipt Showing to Whom, Date, & Addresse's Address						
2000	TOTAL Postage & Reas	3.64					
JOIL OF	Postmark or Date						

	Receipt for Certified Mail			
	No Insurance Coverage Provided.			
	Do not use for International Mail (See reverse)			
	Sent to Mobil			
	Street & Number PO Box 633			
	Post Office, State, & ZIP Code 79702			
	Postage STOWS 99			
	Certified Fee			
	Special Delivery Fee			
ß	Restricted Delivery Fee			
199	Return Receipt Showing to Whom & Date Defivered / . 35			
PS Form 3800 , April 1995	Return Receipt Showing to Whom, Date, & Addressee's Address			
800	TOTAL Postage & Fees \$ 3.64			
3	Postmark or Date			
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Z 558 015 764

US Postal Service
Receipt for Certified Mail
No Insurance Coverage Provided.
Do not use for International Mail (See reverse)

	Sent to Read and	<u> </u>	Tel	1ens		
	Street & Number P.O. Box 1518					
	Post office, State, & ZIP Cod	M	88	201		
	Postage	\$. (79		
	Certified Fee		1.4	40		
	Special Delivery Fee					
.0	Restricted Delivery FeeS T					
1995	Return Receipt Showing to Whom & Date/Defivered		(%)	75		
PS Form 3800 , April 1995	Return Receipt Showing to Whorn, Date, & Addressee Saddress)	2	,		
800	TOTAL Postage & Fees	S	2/	104		
m 3	Postmark or Date					
Po						
PS						

Z 558 015 765

1	US Postal Service Receipt for Certified Mail No Insurance Coverage Provided. Do not use for International Mail (See reverse) Sent to C.L. HOUSE						
-	Street & Number 401 U	J. Texas					
	Post Office, State, & ZIP Cod	x 79701					
Ì	Postage	s . 99					
	Certified Fee	1.40					
	Special Delivery Fee	STA					
	Restricted Delivery Fee	(0)					
5	Return Receipt Showing to Whom & Date Delivers	- 夏 365					
April	Return Receipt Showing to Whom, Date, & Addresseds Address						
Š Š	TOTAL Postage & Fees N	53.64					
S Form 38	Postmark or Date						