



NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

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

May 16, 1997

Ms. Gaye Heard
TOCO, L.L.C.
P.O. Box 888
Hobbs, New Mexico 88241-0888

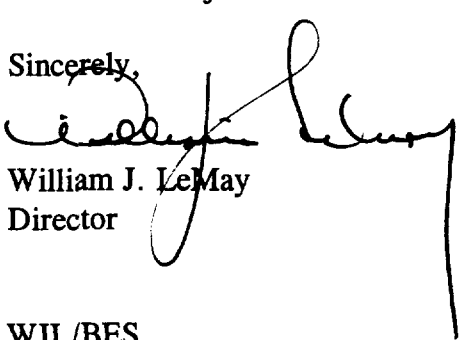
RE: Reinstatement of Division Order SWD-520.

Dear Ms. Heard,

Reference is made to your recent request to reinstate Division Order SWD-520. My staff has considered your request and, pursuant to Rule 705.C., is hereby granted.

Division Order SWD-520 shall again be in effect for a period of one year. The permit will expire on May 15, 1998. If injection has not been implemented by this date, the authority for injection shall terminate ipso facto. If this occurs, you may be required to submit additional data and other justification to have Division Order SWD-520 reinstated.

Sincerely,


William J. LeMay
Director

WJL/BES

cc: Oil Conservation Division - Hobbs
File: SWD-520

SWD 4/2/97
REACTIVATE SWD-520
VERBAL ON 5-7-97
(DAS)

RECEIVED
MAR 24 1997

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

ATTENTION: MR. WILLIAM LeMAY
DIRECTOR OF THE CONSERVATION DIVISION
2040 SOUTH PACHECO
SANTA FE, NEW MEXICO 87505

IN THE MATTER OF A RE-SUBMITTAL OF AN APPLICATION OF
TOCO, L.L.C. (formerly C. W. Trainer) FOR SALT WATER
DISPOSAL, LEA COUNTY, NEW MEXICO PREVIOUSLY APPROVED
UNDER ADMINISTRATIVE ORDER SWD-520.

Under the provisions of Rule 701 (B), TOCO, L.L.C. respectfully re-submits the enclosed application to the New Mexico Oil Conservation Division for authorization once again to complete for salt water disposal its Harris Federal Well No. 1 located 660 feet from the South line and 1980 feet from the East line (Unit O) of Section 5, Township 22 South, Range 34 East, NMPM, Lea County, New Mexico.

The purpose of this application is to obtain authorization to permit the injection of salt water into the Delaware Sand formation through perforations at 5790 feet to 5810 feet and 6001 feet to 6011 feet.

The first submittal of the Application For Authorization to Inject was dated May 6, 1993 and administrative approval was granted through Administrative Order SWD-520, dated June 18, 1993.

Respectfully submitted,

Gaye Heard

Gaye Heard for TOCO, L.L.C., Operator
P. O. Box 888
Hobbs, New Mexico 88241

APPLICATION FOR AUTHORIZATION TO INJECT

- I. Purpose: ☐ Secondary Recovery ☐ Pressure Maintenance ☒ Disposal ☐ Storage
Application qualifies for administrative approval? ☒ yes ☐ no
- II. Operator: TOCO, L.L.C. (formerly C. W. Trainer)
Address: c/o OIL REPORTS & GAS SERVICES, INC., P.O. BOX 755, HOBBS, NM 88241-0755
Contact party: Gaye Heard Phone: (505) 393-2727
- 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: GAYE HEARD Title: MANAGER
- Signature: *Gaye Heard* Date: 3/13/97
- * 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. 1ST application submitted 5/6/93, the work to convert was
postponed due to lack of customers for disposal and the application was terminated.
- DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate Division district office.

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.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

days.

- (4) a rotation 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
- (3) the formation name and depth with expected maximum injection rates and pressures; and
- (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;
- (1) The name, address, phone number, and contact party for the applicant;

must include:

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:

XIV. PROOF OF NOTICE

- (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.
 - (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.
 - (3) State if the well was drilled for injection or, if not, the original purpose of the well.
 - (2) The injection interval and whether it is perforated or open-hole.
 - (1) The name of the injection formation and, if applicable, the field or pool name.
- 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.
- 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.
- (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.
- 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:

III. WELL DATA

**APPLICATION FOR AUTHORIZATION
TO CONVERT TO WATER DISPOSAL
TOCO, L.L.C. (formerly C. W. Trainer)
HARRIS FEDERAL NO. 1
STATEMENT OF COMPLIANCE**

- ITEM III.** A. See Exhibits A & B
 B. (1) Delaware Sand
 (2) Perforations from 5790' to 5810'
 & from 6001' to 6011'
 (3) Drilled by L & B Oil Company
 9/15/84 as a Wildcat. L & B P&A'd
 the well as dry hole in the
 Wolfcamp 12/13/84.

 (4) Other perforated intervals in Bone
 Springs formation from 9184' to
 10,451' protected by a CIBP set @
 9100' w/10 sx cement plug on top
 (5) No known higher oil zone, Bone
 Springs only known lower oil zone
- ITEM V.** See Exhibit C
- ITEM VI.** No plugged wells exist within the area of
 interest
- ITEM VII.** (1) Estimated average rate of injection
 is 2,000 Bbls of water per day,
 with an estimated maximum daily
 rate of 5,000 Bbls of water per
 day
 (2) System will be closed
 (3) Average injection pressure: 600 psi
 Maximum injection pressure: 2000 psi
 (4) Source of water will be Delaware
 Sands
 (5) Source of water and injection zone
 are the same, this being the
 Delaware formation
- ITEM VIII.** The Delaware Sand is unproductive in this
 area. The first Delaware completion
 attempt was made by C. W. Trainer in the
 Harris Federal No. 1, 10/16/89 resulting
 in 100% water production
- ITEM IX.** No stimulation program is planned
- ITEM X.** Logs have been provided by L & B Oil
 Company

ITEM XI. There are two known fresh water wells within the mile radius of the subject well. One well is in the NE/4 NE/4, Section 8, T22S, R34E. The second well is in the NW/4 NE/4, Section 9, T22S R34E. Both wells are in Lea County, New Mexico. Water samples have been collected. Analyses included as Exhibits D & E

ITEM XII. All geological and engineering data available indicates there is no open fault or other hydrologic connection between the Delaware, triassic or alluvium formation.

ITEM XIII. (A) A copy of C-108 with Statement of Compliance has been furnished by certified mail as follows:

SURFACE OWNER: State of New Mexico Land Office
P. O. Box 1148
Santa Fe, New Mexico 87504

OFFSET OPERATORS: Enron Oil & Gas Corporation
Attn: Land Department
P. O. Box 2267
Midland, Texas 79702

Yates Petroleum Corporation
Attn: Land Department
105 South Fourth Street
Artesia, New Mexico 88210

Penwell Energy, Inc.
Attn: Land Department
1100 Arco Building
600 North Marienfeld
Midland, Texas 79701

COURTESY NOTIFICATION: Bureau of Land Management
2909 West 2nd Street
Roswell, New Mexico 88201

(B) Copies of certified mail receipts are identified as Exhibit F

(C) Proof of Publication in the Hobbs Daily News-Sun is identified as Exhibit G

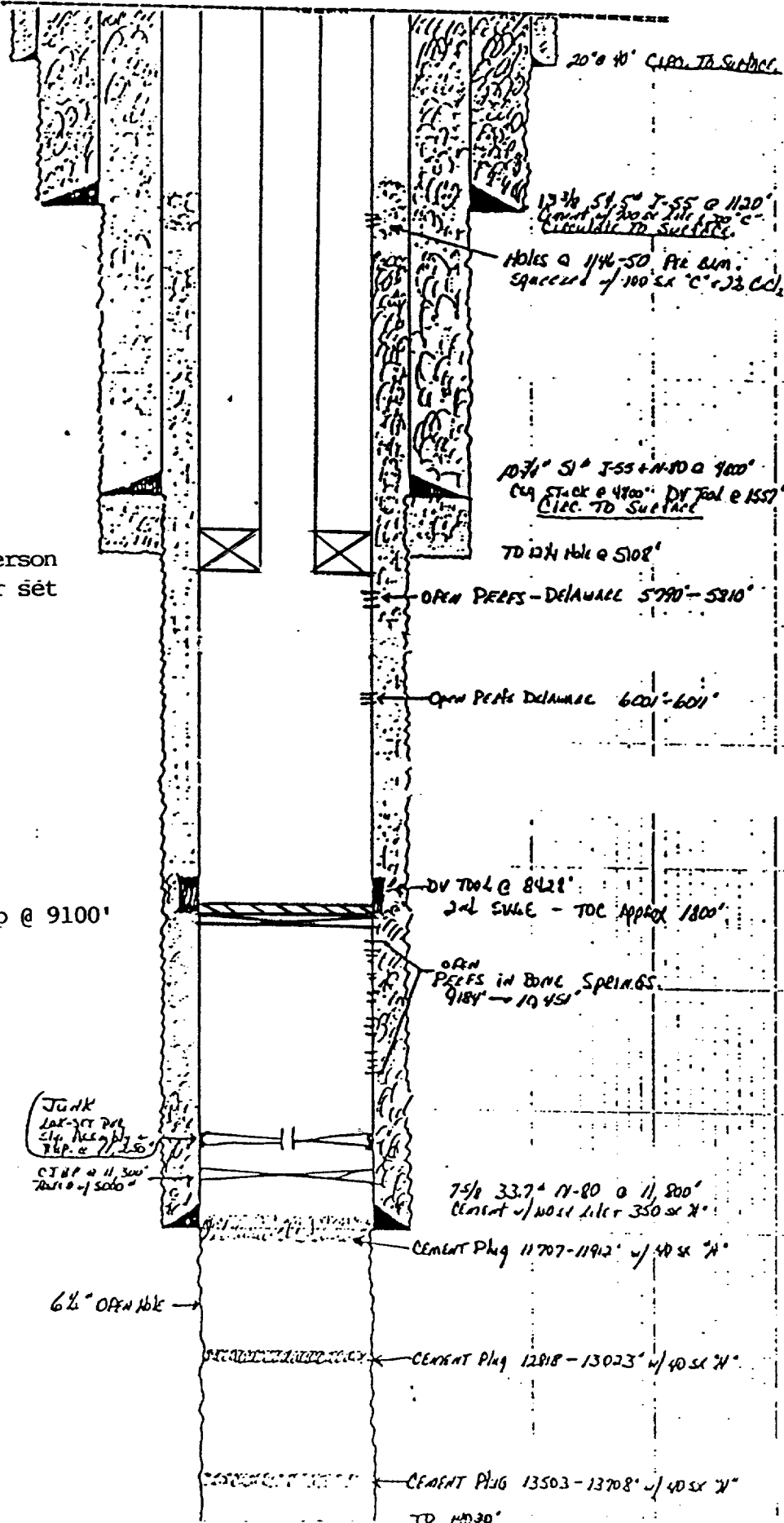
TOCO, L.L.C.
HARRIS FEDERAL NO. 1

Harris Fed. #1
1980' FHL & 660' FBL
Sec. 5-T22S-R34E
TD: 14,030'

Date: 11-19-90
Field: Grama Ridge
Lea County, N.M.

2 7/8" Tbg in Guiberson
Unit VI Model Packer set
@ 5700'

CIBP w/10 sx cmt cap @ 9100'



TABULAR DOCUMENTATION

- EXHIBIT B**

[illegible]

WATER ANALYSIS REPORT

Company : PEAK CONSULTING SER
 Address : HOBBS, NEW MEXICO
 Lease : SECT 9 - T22 -R34
 Well : NE 1/4
 Sample Pt. : WINDMILL

Date : 05-03-93
 Date Sampled : 04-21-93
 Analysis No. : 465

ANALYSIS		mg/L		* meq/L
1. pH	7.3			
2. H2S	NEGATIVE			
3. Specific Gravity	1.000			
4. Total Dissolved Solids		591.3		
5. Suspended Solids		NR		
6. Dissolved Oxygen		NR		
7. Dissolved CO2		NR		
8. Oil In Water		NR		
9. Phenolphthalein Alkalinity (CaCO3)				
10. Methyl Orange Alkalinity (CaCO3)		245.0		
11. Bicarbonate	HCO3	298.9	HCO3	4.9
12. Chloride	Cl	22.0	Cl	0.6
13. Sulfate	SO4	145.0	SO4	3.0
14. Calcium	Ca	110.2	Ca	5.5
15. Magnesium	Mg	61.5	Mg	5.1
16. Sodium (calculated)	Na	-46.4	Na	-2.0
17. Iron	Fe	0.0		
18. Barium	Ba	0.0		
19. Strontium	Sr	0.0		
20. Total Hardness (CaCO3)		528.5		

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter		Compound	Equiv wt X meq/L	=	mg/L
5 *Ca <----- *HCO3	5	Ca(HCO3)2	81.0	4.9	397
----- /----->		CaSO4	68.1	0.6	41
5 *Mg -----> *SO4	3	CaCl2	55.5		
----- <----- /		Mg(HCO3)2	73.2		
-2 *Na -----> *Cl	1	MgSO4	60.2	2.4	146
		MgCl2	47.6	0.6	30
Saturation Values Dist. Water 20 C		NaHCO3	84.0		
CaCO3 13 mg/L		Na2SO4	71.0		
CaSO4 * 2H2O 2090 mg/L		NaCl	58.4		
BaSO4 2.4 mg/L					

REMARKS:

----- EDDIE SEAY

Respectfully submitted,
 ROZANNE JOHNSON

WATER ANALYSIS REPORT

Company : PEAK CONSULTING SER
 Address : HOBBS, NEW MEXICO
 Lease : SECT 8 - T22 - R34E
 Well : NE 1/4
 Sample Pt. : WINDMILL

Date : 05-03-93
 Date Sampled : 04-21-93
 Analysis No. : 466

ANALYSIS		mg/L		* meq/L
1. pH	7.2			
2. H2S	NEGATIVE			
3. Specific Gravity	1.000			
4. Total Dissolved Solids		774.4		
5. Suspended Solids		NR		
6. Dissolved Oxygen		NR		
7. Dissolved CO2		NR		
8. Oil In Water		NR		
9. Phenolphthalein Alkalinity (CaCO3)				
10. Methyl Orange Alkalinity (CaCO3)		120.0		
11. Bicarbonate	HCO3	146.4	HCO3	2.4
12. Chloride	Cl	280.0	Cl	7.9
13. Sulfate	SO4	155.0	SO4	3.2
14. Calcium	Ca	143.9	Ca	7.2
15. Magnesium	Mg	109.6	Mg	9.0
16. Sodium (calculated)	Na	-61.5	Na	-2.7
17. Iron	Fe	0.8		
18. Barium	Ba	0.0		
19. Strontium	Sr	0.0		
20. Total Hardness (CaCO3)		810.7		

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter		Compound	Equiv wt	X meq/L	= mg/L
7 *Ca <----- *HCO3	2	Ca(HCO3)2	81.0	2.4	194
/----->		CaSO4	68.1	3.2	220
9 *Mg -----> *SO4	3	CaCl2	55.5	1.6	86
<-----/		Mg(HCO3)2	73.2		
-3 *Na -----> *Cl	8	MgSO4	60.2		
		MgCl2	47.6	6.3	302
Saturation Values Dist. Water 20 C		NaHCO3	84.0		
CaCO3 13 mg/L		Na2SO4	71.0		
CaSO4 * 2H2O 2090 mg/L		NaCl	58.4		
BaSO4 2.4 mg/L					

REMARKS:

----- EDDIE SEAY

Respectfully submitted,
 ROZANNE JOHNSON

PS Form 1096, November 1987

By (Signature and Title)

Date

Purpose

/100 Dollars

Amount (Written Out)

Amount (In Numbers)

Received From



Cash Receipt

P 243 010 521 RECEIPT FOR CERTIFIED MAIL

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

SENT TO		Enron Oil Gas Corp.	
STREET AND NO.		P.O. Box 2267	
P.O., STATE AND ZIP CODE		Midland, TX 79702	
POSTAGE		\$ 78	
CERTIFIED FEE		110 ¢	
SPECIAL DELIVERY		¢	
RESTRICTED DELIVERY		¢	
SHOW TO WHOM AND DATE DELIVERED		110 ¢	
SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY		¢	
SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY		¢	
SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY		¢	
TOTAL POSTAGE AND FEES		\$ 298	
POSTMARK OR DATE		MAR 14 1997	

PS Form 3800, Apr. 1976

P 243 010 525 RECEIPT FOR CERTIFIED MAIL

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

SENT TO		Penwell Energy Inc.	
STREET AND NO.		11000 4th St.	
P.O., STATE AND ZIP CODE		Midland, TX 79701	
POSTAGE		\$ 78	
CERTIFIED FEE		110 ¢	
SPECIAL DELIVERY		¢	
RESTRICTED DELIVERY		¢	
SHOW TO WHOM AND DATE DELIVERED		110 ¢	
SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY		¢	
SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY		¢	
SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY		¢	
TOTAL POSTAGE AND FEES		\$ 298	
POSTMARK OR DATE		MAR 14 1997	

PS Form 3800, Apr. 1976

P 243 010 526 RECEIPT FOR CERTIFIED MAIL

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

SENT TO		BHM	
STREET AND NO.		2909 W. 2nd St.	
P.O., STATE AND ZIP CODE		Midland, TX 88201	
POSTAGE		\$ 78	
CERTIFIED FEE		110 ¢	
SPECIAL DELIVERY		¢	
RESTRICTED DELIVERY		¢	
SHOW TO WHOM AND DATE DELIVERED		110 ¢	
SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY		¢	
SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY		¢	
SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY		¢	
TOTAL POSTAGE AND FEES		\$ 298	
POSTMARK OR DATE		MAR 14 1997	

PS Form 3800, Apr. 1976

P 243 010 520 RECEIPT FOR CERTIFIED MAIL

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

SENT TO		Midland Office	
STREET AND NO.		P.O. Box 1148	
P.O., STATE AND ZIP CODE		Santa Fe, NM 87504	
POSTAGE		\$ 78	
CERTIFIED FEE		110 ¢	
SPECIAL DELIVERY		¢	
RESTRICTED DELIVERY		¢	
SHOW TO WHOM AND DATE DELIVERED		110 ¢	
SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY		¢	
SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY		¢	
SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY		¢	
TOTAL POSTAGE AND FEES		\$ 298	
POSTMARK OR DATE		MAR 14 1997	

PS Form 3800, Apr. 1976

P 243 010 523 RECEIPT FOR CERTIFIED MAIL

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

SENT TO		Water Pet. Corp.	
STREET AND NO.		105 S. 4th St.	
P.O., STATE AND ZIP CODE		Midland, TX 88201	
POSTAGE		\$ 78	
CERTIFIED FEE		110 ¢	
SPECIAL DELIVERY		¢	
RESTRICTED DELIVERY		¢	
SHOW TO WHOM AND DATE DELIVERED		110 ¢	
SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY		¢	
SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY		¢	
SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY		¢	
TOTAL POSTAGE AND FEES		\$ 298	
POSTMARK OR DATE		MAR 14 1997	

PS Form 3800, Apr. 1976

AFFIDAVIT OF PUBLICATION

State of New Mexico,
County of Lea.

I, KATHI BEARDEN

Publisher

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 1

weeks.

Beginning with the issue dated

March 10, 1997

and ending with the issue dated

March 19, 1997

Kathi Bearden

Publisher

Sworn and subscribed to before

me this 20th day of

March, 1997

Gail Henson

Notary Public.

My Commision expires
October 18, 2000
(Seal)

LEGAL NOTICE

March 10, 18, 19, 1997

TOCO, L.L.C. (formerly C.W. Trainer) will re-file an application with the New Mexico Oil Conservation Division for a salt water disposal installation into the Delaware Sands Formation through perforations at 5790' through 5810' and at 6001' through 6011' in the Harris Federal No. 1, located 660' FSL & 1980' FEL Section 5, T22S, R34E, Lea County, New Mexico. All interested parties may file an objection or request for hearing within 15 days to the New Mexico Oil Conservation Division, 2040 South Pacheco, Santa Fe, New Mexico 87505. Local contact party for TOCO, L.L.C. is Gaye Heard, Oil Reports & Gas Services, Inc. P.O. Box 755, Hobbs, New Mexico 88241, telephone (505) 393-2727.

#15076

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.

01101504000 01506276

Oil Reports & Gas Services, Inc
P.O. Box 755
a/c 434005
Hobbs, NM 88241