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 resubmits 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,

Jay Heard

Gaye Heard for TOCO, L.L.C., Operator P. O. Box 888 Hobbs, New Mexico 88241 STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION POST OFFICE BOX 2088 STATE LAND UFFICE BUILDING SANTA FE NEW MERICO 87501

APPLIC	ATION FOR AUTHORIZATION TO INJECT
۲.	Purpose: Secondary Recovery Pressure Maintenance I Disposal Storage Application qualifies for administrative approval? Kives Inc
11.	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
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? yes X no If yes, give the Division order number authorizing the project
۷.	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 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: Dy Acard Date: 3/13/97

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 terminate

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

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.
- 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 SALTWATER DISPOSAL APPLICATION

TABULAR DOCUMENTATION

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ITEM	111.	(A)	1.	Harris Federal No. 1, 660' FSL & 1980' FEL, Section 5, Township 22 South, Range 34 East, Lea County, New Mexico.
			2.	<pre>13 3/8" 54.5# J-55 @ 1120' w/700 sx; circ 10 3/4" 51# J-55 & N-80 @ 4800' w/1400 sx circ Sqz 100 sx thru perfs @ 1146'-50' per BLM 12 1/2" Hole TD @ 5108' 7 5/8" 33.7# N-80 @ 11,800' w/350 sx 1st stage; 750 sx thru DV tool @ 8428' 2nd stage 6 1/2" OH to TD @ 14,054'</pre>
				3. 2 7/8" Tbg w/pkr @ 5700'
				4. Guiberson Unit VI Model packer set @ 5700'

EXHIBIT B

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WATER ANALYSIS REPORT _____ -----

Company Address Lease Well Sample	S : HOBBS, NEW MEXICO : SECT 9 - T22 -R34 : NE 1/4	Date Date Sampled Analysis No.	: 05-03-9 : 04-21-9 : 465	
	ANALYSIS	mg/L		* meg/L
•	рН 7.3			
1.	PH 7.3 H2S NEGATIVE			
2. 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 HCO		HCO3	4.9
12.		22.0	Cl	0.6
13.		145.0 110.2	SO4 Ca	3.0 5.5
14.		61.5	Mg	5.1
15. 16.	Magnesium Mg Sodium (calculated) Na	-46.4	Na	-2.0
17.	Iron Fe	0.0	2112	2
18.	Barium Ba	0.0		
19.	Strontium Sr	0.0		
20.	Total Hardness (CaCO3)	528.5		

PROBABLE MINERAL COMPOSITION

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

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REMARKS: EDDIE SEAY

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Respectfully submitted, ROZANNE JOHNSON

WATER ANALYSIS REPORT _____

Company Address Lease Well Sample	5	: PEAK CONSULTIN : HOBBS, NEW MEX : SECT 8 - T22 - : NE 1/4 : WINDMILL	ICO R34E	Date Date Sampled Analysis No.	: 05-03- : 04-21- : 466	
	ANALYS	SIS		mg/L		* meq/L
13. 14. 15. 16. 17. 18.	Total Suspen Dissol Oil In Phenol Methyl Bicarb Chlori Sulfat Calciu Magnes Sodium Iron Barium Stront	fic Gravity Dissolved Solids ded Solids ved Oxygen ved CO2 Water phthalein Alkali Orange Alkalini onate de ce m sium a (calculated)	nity (CaCO3) ty (CaCO3) HCO3 Cl SO4 Ca Mg Na Fe Ba Sr	120.0	HCO3 C1 SO4 Ca Mg Na	2.4 7.9 3.2 7.2 9.0 -2.7

PROBABLE MINERAL COMPOSITION

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

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REMARKS: EDDIE SEAY

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Respectfully submitted, ROZANNE JOHNSON

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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

Publisher Sworn and subscribed to before

me this <u>20th</u> day of

March

_____ 1997

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Notary Public.

My Commision expires October 18, 2000 (Seal)

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.

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, Lee 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, LL.C. is Gaye Heard, Oil Reports & Gas Services, Inc." P.O. Box 755, Hobbs, New Mexico 88241, telephone (505) 393-2727. #15076

01101504000 01506276 Oil Reports & Gas Services, In P.O. Box 755

a/c 434005 Hobbs, NM 88241

