STATE OF NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

FORM	C-108
Revised	7-1-81

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APPLICATION FOR	AUTHORIZA	TION TO IN		
			$\mathbf{V}$ .	-

I.	PURPOSE: Seconda Application qualifies for admin	ry Recovery	$\frac{\text{Pressure } M}{X \text{ Yes}}$	aintenance No	Disposal	Storage
II.	OPERATOR: TETAS	S OPERA	TORS	FNC,		
	ADDRESS: P. O. BC	x 58 /	MIDLAND,	TX 70	7702	
	CONTACT PARTY:72	DE D. RAI	MEY		PHONE:	271-1150

III. WELL DATA: Complete the data required on the reverse side of this form for each well processed 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:
  - 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/1 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 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.

E: <u>[ ONSULTANT</u> \_\_\_\_\_DATE: <u>11/17/92</u> TITLE: / NAME: \ SIGNATURE:

\* 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 circumstance of the earlier submittal.

### III. WELI DATA

- A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabulai 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.

Divisic a District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpos. 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 vell. 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 cf 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 a papelication 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, PO Box 2088, Santa Fe, NM 87504-2088 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 day: from the date this application was mailed to them.

	INJECTION WELL DATA SHEET			
OPERATOR TETRS DRERATORS INC.	LEASE SWD			
Well NO. $1/1980' N + 660' W$ FOOTAGE LOCATION	32 SECTION	235 TOWNSHIP	28E RANGE	
<u>Schematic</u>	3	Well Construction Data		
16"@ 426 w 720 5x3 circulated	Surface Casing			
() = = = = = = = = = = = = = = = = = = =	Size //	Cemented with	<u>420</u> sx.	
			feet determined by <u>C/VCV /275</u>	
Top cener 3240' tuber on d	Hole Size			
For for 125 - 6287	Size 10 3/4 .	Cemented with	2 <i>850</i> sx	
	t fac	feet determined by <u>C+//C+//</u>	iroulated	
250 5X2 - 7 516" @ 4654" W 2150 5X5	Size 75/5	Cemented with	2/50 sx	
CIBP 12,380' capped w 35' centert TOC 3240		feet determined by Tempers A	Emperature Survey	`
1	34			
12 13060 2184'-13058' y 625-25	Total Depth2060		see attached sheet)	
	l Na	1010		
	(perforated or ensurated, li	<i>とうらう</i> ndicate which)	feet	

Side 1

 
 Tubing Size
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 Arrow
 Tensoron
 packer at
 6/50
 Other Data Other type of tubing / casing seal if applicable set in a feet

Is this a new well drilled for injection? Yes X No

If no, for what purpose was the well originally drilled?

- Ņ Name of the injection formation Bove SPRINCS
- 3. Name of Field or Pool (if applicable) <u>LOUING AREA</u>
- 4 Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e., sacks of cement or plug(s) used. (2, 433 - 72, 444)

CIBP @ 12380 Capped with 35' cement. 40 5x cement plug tople 9011'

Ģ Give the names and depths of any over or underlying oil of gas zones (pools) in this area.

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	INJECTION WELL DATA STILL	
OPERATOR JEIAS PERATORS INC.	LEASE 5 W.D	
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Schematic PRESENT CONDITION	Well Construction Data	ion Data
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Total and pulled & 2500 W 45 280 SIS Hole Size	184 1, 7 ''	feet determined by <u>Critical out top</u> of liner
700 cenent @ 3240' CEBPQ 6175' 030000 y 25 MS.	Intermediate Casing	thur vs
E Perfi 6474'-6690'		l by
CLORE 6715-6969	Hole Size	
100 00 00 000 0000 000000 000000000000	Long String	
1 77% W 4654 W 4150 5X5,	Size Cemented with	withsx.
	TOC feet determined by	mined by
Perf. 12, 433 -12, 444	Hole Size	
T 13,060' CIrou 1364 -13058 W 642 2XS T	Total Depth	
	Injection Interval	
	feet to (perforated or open-hole; indicate which)	feet

Side 1

INJECTION WELL DATA SHEET

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Give the names and depths of any over or underlying oil of gas zones (pools) in this area.	Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e., sacks of cement or plug(s) used.	Name of Field or Pool (if applicable)	Name of the injection formation	If no, for what purpose was the well originally drilled?	Is this a new well drilled for injection? Yes No	Other Data	Other type of tubing / casing seal if applicable	Tubing Size

	INJECTION	INJECTION WELL DATA SHEET		Sk	Side 1
OPERATOR CIMONNON	ron Energy	LEASE LUGTTS	Federal		
/	V	7 1	235	28E	
	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE	
Sch	Schematic		Well Construction Data	Fi	
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<u>.</u>		Intermediate Casing			
	4 4790	5	Cemented with	\$ \$	
	100 cener T 170	TOC 770		N (2/ci /2/el	
<u>(</u>	Fert 5737'-5747'	Hole Size	2 /4 "		
*****	top Bane Sprin	Long String			
	Cernent plug 6150-5850'	Size 42	Cemented with	300 sx.	
	1.TD 7775.	TOC 47%0	feet determined by $\frac{1}{\sqrt{2}}$	V Cakulated	
		Hole Size	82"		
(		Total Depth	, 275 '		
Delaware Form	Delaware Formation Di / Producer	Injection Interval			
		feet to (perforated or open-hole; indicate which)	feet to -hole; Indicate which)	feet	

s area.	Give the names and depths of any over or underlying oil of gas zones (pools) in this area.	បា
ervals and	Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e., sacks of cement or plug(s) used.	<u></u> 4
	Name of Field or Pool (if applicable)	ယ္
	Name of the injection formation	Ņ
	If no, for what purpose was the well originally drilled?	
	Is this a new well drilled for injection? YesNo	<del>. *</del>
· · ·	Data	Other Data
a de	Other type of tubing / casing seal if applicable	Other
feet		
set in a	I Size	Tubina Size

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TEJAS OPERATORS INC. SEEKS APPROVAL TO RE-ENTER THE PLUGGED AND ABANDONED AMOCO JB COM #1 LOCATED 1980 FEET NORTH AND 660 FEET WEST OF SECTION 32, TOWNSHIP 23S, RANGE 28E EDDY COUNTY, NEW MEXICO. THE SUBJECT WELL IS LOCATED ONE MILE WEST AND TWO MILES SOUTH OF LOVING, NEW MEXICO. TEJAS WILL CONVERT THE SUBJECT WELL INTO A COMMERCIAL SALT WATER DISPOSAL WELL AND WILL INJECT A MAXIMUM OF 3000 BARRELS OF PRODUCED WATER FROM WELLS PRODUCING IN THE DELAWARE, BONE SPRINGS, ATOKA AND MORROW IN THE AREA, INTO THE BONE SPRINGS FORMATION THROUGH SELECTED PERFORATIONS 6225' - 6969'. INITIAL INJECTION RATES ARE ANTICIPATED TO AVERAGE 1500 BARRELS PER DAY AT AN AVERAGE INJECTION PRESSURE OF 500 PSI WITH A MAXIMUM REQUESTED INJECTION PRESSURE OF 1295 PSI. THE SYSTEM WILL BE OPEN AND ANALYSIS OF THE INJECTION FLUID AND ANALYSIS OF THE FLUID IN THE INJECTION ZONE FROM NEARBY WELLS IS ATTACHED. COMPATIBILITY TESTS WILL BE CONDUCTED WHEN ACTUAL SAMPLES ARE COLLECTED.

THE SUBJECT WELL WAS DRILLED IN 1980 AS AN OIL AND GAS TEST AND WAS PLUGGED AND ABANDONED AFTER TESTING THE MORROW AND BONE SPRINGS. THE MORROW TESTED WATER WITH A SHOW OF GAS AND THE BONE SPRINGS WATER WITH A TRACE OF OIL AND GAS. SCHEMATICS OF THE WELL AS IT PRESENTLY EXISTS AND HOW IT WILL BE EQUIPPED AS A DISPOSAL WELL ARE ATTACHED. INJECTION WILL BE THROUGH 2 1/2 INCH OR LARGER, FIBERGLASS LINED TUBING SET IN AN ARROW TENSION PACKER TO BE SET AT APPROXIMATELY 6150 FEET. THE TUBING-CASING ANNULUS WILL BE FILLED WITH AN INERT PACKER FLUID.

THE BONE SPRINGS IN THE WELL IS TOPPED AT 6080 FEET AND IS AROUND 3300 FEET THICK. IT IS COMPOSED PRIMARILY OF SHALE AND SANDSTONE WITH SOME INTERMINGLING OF LIMESTONE. THE PERFORATED INTERVALS WERE FRACTURED DURING TESTING SO NO FURTHER TREATMENT IS ANTICIPATED.

THERE ARE NO FRESH WATER WELLS WITHIN ONE MILE OF THE INJECTION WELL SO NO FRESH WATER ANALYSIS IS INCLUDED. THE BASE OF ANY FRESH WATER WILL BE AT AROUND 350 FEET WHICH IS IN THE RUSTLER ANHYDRITE. FRESH WATER IN THE AREA IS USED PRIMARILY FOR LIVESTOCK WATERING. THE AVAILABLE GEOLOGIC AND ENGINEERING DATA HAS BEEN EXAMINED AND THERE IS NO EVIDENCE OF OPEN FAULTS OR ANY OTHER HYDROLOGIC CONNECTION BETWEEN THE DISPOSAL ZONE AND ANY UNDERGROUND SOURCE OF DRINKING WATER.

THE LAND UPON WHICH THE WELL IS LOCATED IS STATE LAND AND IS NOT PRESENTLY LEASED FOR OIL AND GAS EXPLORATION.

COPIES OF THE APPLICATION HAVE BEEN SENT BY CERTIFIED MAIL TO THE FOLLOWING:

H. E. YATES BOX 1933 ROSWELL, NM 88201

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CIMARRON ENERGY BOX 1525 CARLSBAD, NM 88220

ENRON BOX 2267 MIDLAND,TX 79702 AMOCO PETROLEUM CORP.

BOX 3092 HOUSTON, TX 77253

NEW MEXICO STATE LAND OFFICE BOX 1148 SANTA FE, NM 87504-1148

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	TABLE 44	IAWATER-	WATER-QUALITY DATA FOR EDDY Formation Source	LECR EDD	)V AND LEA Je and geo	COUNTIES	AND LEA COUNTIES NEW MEXICO. AND REOGRAPHIC LOCATION.	-	ARRANGED BY BOTH		180	D TABLE	: 4A,WATE	44WATER-QUALITY DATA FOR EDDY AND LEA COUNTIES, NEW MEXICO,	TH FOR EDDY TION SOURCE	AND LEA CO AND GFRGRA	UNTIES NE Phic Lácat		ARA
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LOCATION SEC. T. R.	DATE DF Collection	CEPTH FROM TO	FORMAT ? ON	SAMP- Ling Method	51L1CA (5102) (6102)	180N	CAL FIUM (CA) (ms/L)	MAGNESTUM (MG) (MG))	SODIUM + Potassium As Na (MG/L)	BICAR- Brnate + Carbinate (mg/l)	SULFATE (SO4) (MG/L)	HVDROGEN Sulfide (H2S)	Ch. 0%(0F (CL) (Mc/))	FLUO- NIT- RIDE RATE (F) (NO3 CMC/) (MC/L	DENSITY OF Water ) at 20C	0155PLVE0 50L105 (50M) (m67L)	( CA+MG )/ ( Na+K )	SPECIFIC CONDUCT- ANCE (UMHOS	SPE CON ANC
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### Affidavit of Publication

No. 14132

STATE OF NEW MEXICO,

County of Eddy:

Gary D. Scott		being duly
sworn, says: That he is the	Publisher	of The
Artesia Daily Press, a daily	newspaper of	general circulation,
published in English at Arte	sia, said county	and state, and that
the hereto attachedLega	l Notice	

was published in a regular and entire issue of the said Artesia Daily Press, a daily newspaper duly qualified for that purpose within the meaning of Chapter 167 of the 1937 Session Laws of

the state of New Mexico for	days consecutive weeks on
the same day as follows:	
First PublicationNovember 20,	1992
Second Publication	
Third Publication	
Fourth Publication	<u> </u>
- Xan W	Sigt
Subscribed and sworn to before me th	is20thday
of	November 1992

Barkara anne Boans
Notary Public, Eddy County, New Mexico
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My Commission expires September 23, 1996

Copy of Publication

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