

FILED IN DIVISION
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APPLICATION FOR AUTHORIZATION TO INJECT 30 FE 8 05

- I. PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage
Application qualifies for administrative approval? X Yes No
- II. OPERATOR: TEJAS OPERATORS, INC.
ADDRESS: P.O. BOX 58, MIDLAND, TEXAS 79702
CONTACT PARTY: J.M. SIMPSON PHONE: 915 684-8421
- 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/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 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: J. M. SIMPSON TITLE: PRESIDENT
SIGNATURE: J M Simpson DATE: 2-4-93
- * 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. 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 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, PO Box 2088, Santa Fe, NM 87504-2088 within 15 days.

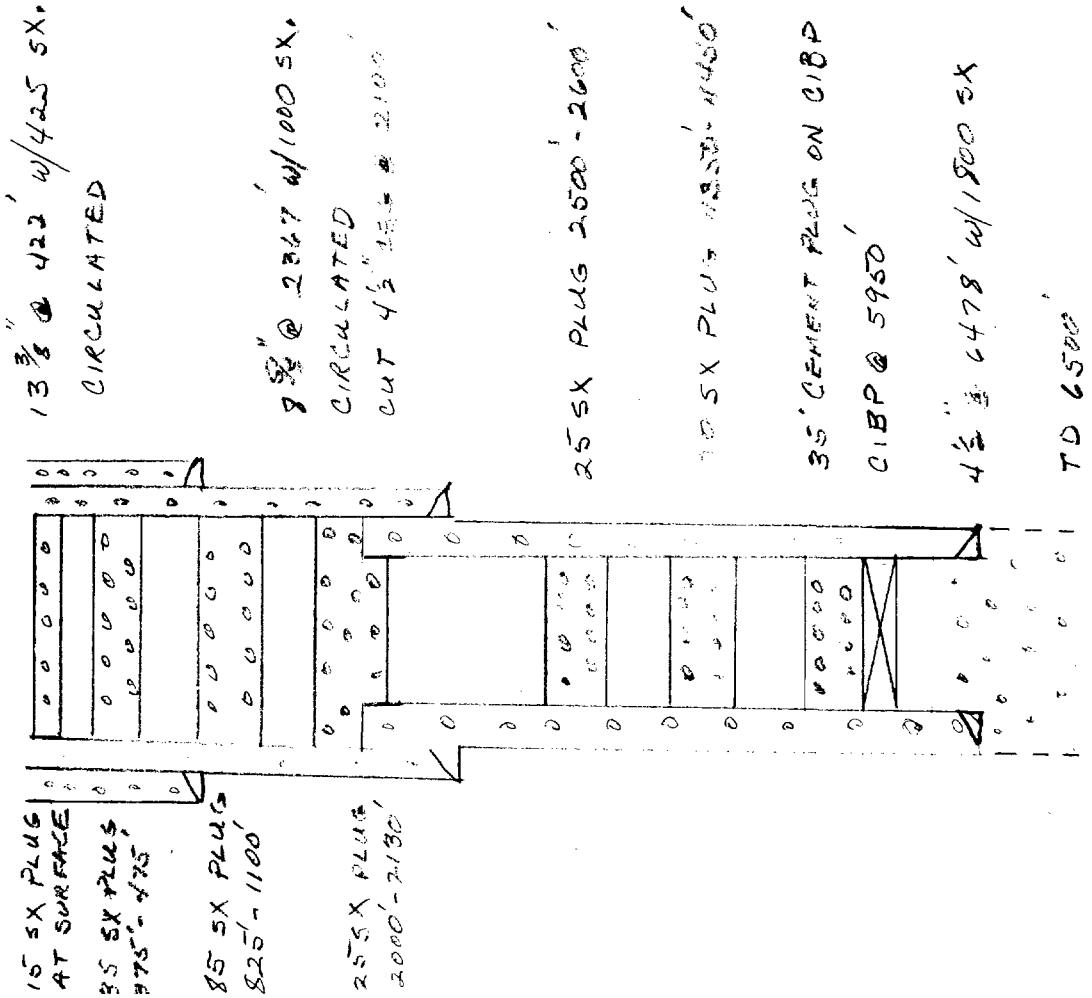
NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

OPERATOR TEXAS OPERATORS, INC. LEASE EXCLUDED - FEDERAL
 WELL NO. 1 660' FSL AND 810' FEL, SEC. 17, 24-5, 38E EDDY CO., N.M. SECTION 17 TOWNSHIP 38E RANGE N.M.
 FOOTAGE LOCATION

PRESENT CONDITION

Schematic



Well Construction Data

Surface Casing
 Size 13 3/8" @ 422' Cemented with 425 sx.
 TOC CIRCULATED feet determined by _____
 Hole Size 15"
 Intermediate Casing
 Size 8 5/8" @ 2367' Cemented with 1000 sx.
 TOC CIRCULATED feet determined by _____
 Hole Size 11"
 Long String
 Size 4 1/2" @ 6478' Cemented with 1800 sx.
 TOC _____ feet determined by _____
 Hole Size 6 3/4"
 Total Depth 6500'
 Injection Interval
2550' feet to 6037' feet
 (perforated ~~on~~ note; indicate which)

INJECTION WELL DATA SHEET

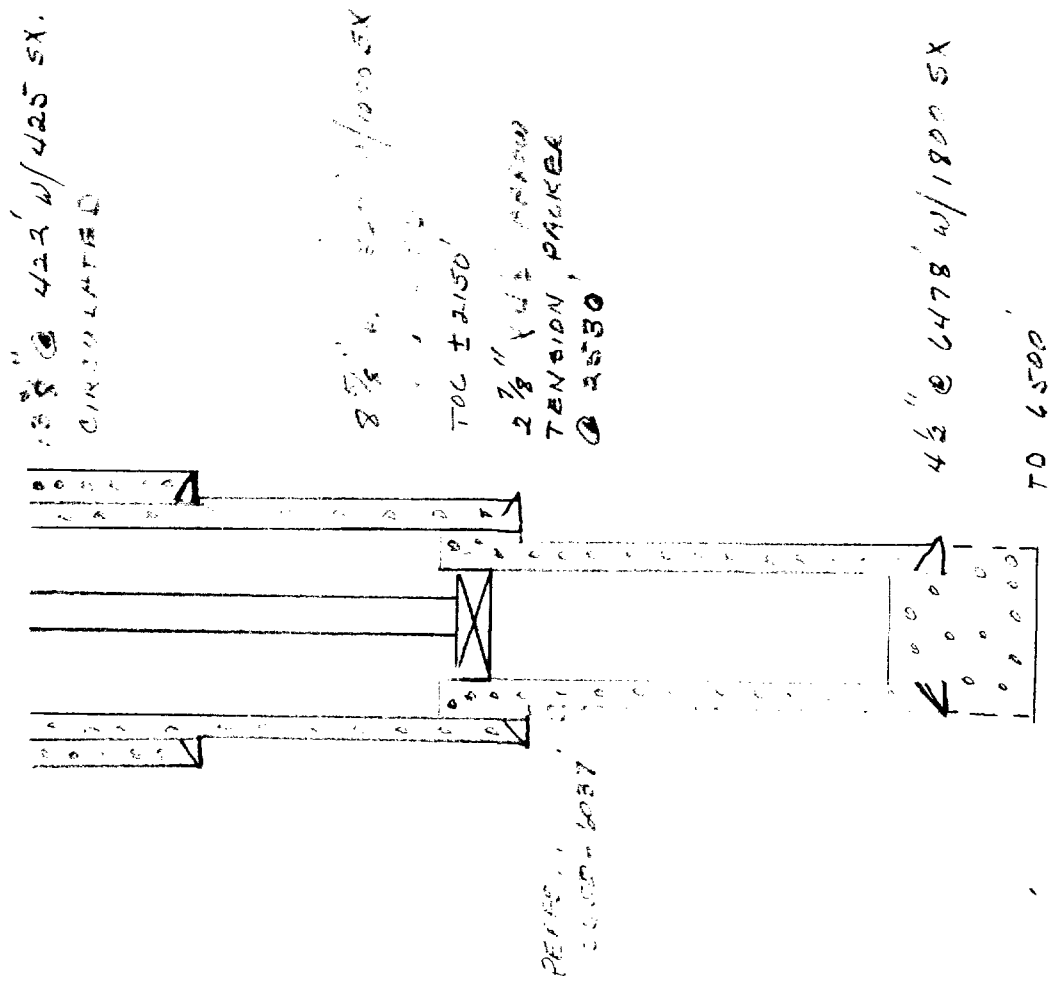
OPERATOR TEXAS OPERATORS, INC. LEASE ENFIELD - FEDERAL

WELL NO. 1 200 FEET SIDING SEC. 17 24.5 TOWNSHIP 28E EDDY Co., TEX. RANGE

FOOTAGE LOCATION SECTION

WELL'S CONDITION
AFTER WORK OVER

Schematic



Well Construction Data

Surface Casing
Size 13 3/8" @ 422' Cemented with 425' SX.
TOC C.M.C. feet determined by
Hole Size 17 1/2"

Intermediate Casing
Size 8 5/8" @ 2367' Cemented with 1000' SX.
TOC C.M.C. feet determined by
Hole Size 11 1/2"

Long String
Size 4 1/2" @ 6478' Cemented with 1800' SX.
TOC ± 2150' feet determined by
Hole Size 7 7/8"
Total Depth 6500'
Injection Interval feet to 6037' feet
(perforated or open-hole; indicate which) PERFORATIONS

INJECTION WELL DATA SHEET

Tubing Size 2 7/8 lined with RICE DUOLINE LINING set in a
ARROW TENSION packer at ± 2500' (type of internal coating) feet

Other type of tubing / casing seal if applicable _____

Other Data

1. Is this a new well drilled for injection? Yes ☒ No ☐

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

2. Name of the injection formation DELAWARE

3. Name of Field or Pool (if applicable) WILLOW LAKE OILFIELD

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. N/O

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

ABOVE: NONE
BELOW: BONE SPRING REGION 4000'
ATOKA 10000' 12,000'

TABLE 4A.--WATER-QUALITY DATA FOR EDDY AND LEA COUNTIES, NEW MEXICO, ARRANGED BY BOTH FORMATION SOURCE AND GEOGRAPHIC LOCATION.

SD NO	LOCATION	DATE OF COLLECTION	DEPTH FROM TO	SAMP- LING METHOD	SILICA (SI02) (MG/L)	IRON (FE) (MG/L)	CALCIUM (CA) (MG/L)	MAGNESIUM (MG/L)	SODIUM + POTASSIUM AS Na (MG/L)	BICARBONATE (MG/L)	SULFATE (SO4) (MG/L)	HYDROGEN SULFIDE (H2S) (MG/L)	CHLORIDE (CL) (MG/L)	FLUORIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DENSITY OF WATER AT 20C (GM/ML)	DISSOLVED SOLIDS (SUM) (MG/L)	CA+MG/ (NA+K) (MG/L)	SPECIFIC CONDUCTANCE (UMH/CM AT 25C)
1	22	27	10-17-70	3,417-3,434	4530L SD	TR	8,400	2,300	46,000	572	1,400	-	76,000	-	-	1.106	160,000	314	171,000
2	22	27	10-17-70	3,417-3,434	4530L SD	ST	8,400	2,300	46,000	572	1,400	-	76,000	-	-	1.106	160,000	314	171,000
3	22	27	03-25-60	2,480-2,487	4530L SD	ST	3,100	1,400	46,000	181	1,400	-	76,000	-	-	1.093	130,000	134	-
4	15	24	03-25-60	2,480-2,487	4530L SD	ST	5,300	2,600	100,000	182	2,000	0.0	140,000	0.0	0.0	1.200	300,000	104	-
5	24	27	03-19-59	3,838-3,842	4530L SD	SB	9,000	1,500	46,000	49	400	0.0	90,000	-	-	1.124	150,000	288	-
6	25	30	04-21-60	3,724-3,728	4530L SD	SB	8,500	2,100	51,000	132	130	0.0	93,000	-	-	1.105	160,000	270	-
7	25	30	05-17-66	3,668-3,675	4530L SD	WH	8,300	1,000	46,000	54	360	0.0	90,000	-	-	1.105	150,000	246	-
8	25	30	05-00-62	3,450-3,450	4530L SD	BP	7,500	2,400	46,000	71	560	0.0	110,000	-	-	1.110	160,000	288	-
9	20	26	03-18-59	4,113-4,128	4530L SD	NT	9,000	2,400	46,000	137	1,700	0.0	130,000	-	-	1.100	160,000	334	-
10	20	26	03-18-59	4,113-4,128	4530L SD	NT	24,000	3,100	52,000	137	1,700	0.0	130,000	-	-	1.100	160,000	334	-
11	24	26	03-10-58	4,972-5,079	4530L SD	NT	19,000	1,800	110,000	158	300	TR	180,000	-	-	1.187	260,000	374	-
12	24	26	03-10-58	4,972-5,079	4530L SD	NT	19,000	1,800	110,000	158	300	TR	180,000	-	-	1.187	260,000	374	-
13	24	26	03-10-58	4,972-5,079	4530L SD	NT	19,000	1,800	110,000	158	300	TR	180,000	-	-	1.187	260,000	374	-
14	24	26	03-10-58	4,972-5,079	4530L SD	NT	19,000	1,800	110,000	158	300	TR	180,000	-	-	1.187	260,000	374	-
15	24	26	03-10-58	4,972-5,079	4530L SD	NT	19,000	1,800	110,000	158	300	TR	180,000	-	-	1.187	260,000	374	-
16	24	26	03-10-58	4,972-5,079	4530L SD	NT	19,000	1,800	110,000	158	300	TR	180,000	-	-	1.187	260,000	374	-
17	24	26	03-10-58	4,972-5,079	4530L SD	NT	19,000	1,800	110,000	158	300	TR	180,000	-	-	1.187	260,000	374	-
18	24	26	03-10-58	4,972-5,079	4530L SD	NT	19,000	1,800	110,000	158	300	TR	180,000	-	-	1.187	260,000	374	-
19	30	30	04-30-59	6,813-6,865	4530L SD	NT	2,500	710	51,000	236	2,100	TR	5,700	-	-	1.074	120,000	309	-
20	30	30	04-30-59	6,813-6,865	4530L SD	NT	2,500	710	51,000	236	2,100	TR	5,700	-	-	1.074	120,000	309	-
21	30	30	09-21-59	6,786-6,836	4530L SD	NT	-	-	110,000	-	-	0.0	170,000	-	-	1.108	138,000	495	-
22	24	26	02-15-67	3,624-3,636	4530L SD	ST	1,400	730	6,700	1,530	3,400	1,500	110,000	-	-	1.123	25,000	495	-
23	24	26	11-05-70	3,624-3,636	4530L SD	ST	1,400	730	6,700	1,530	3,400	1,500	110,000	-	-	1.123	25,000	495	-
24	18	22	11-05-70	3,624-3,636	4530L SD	ST	1,400	730	6,700	1,530	3,400	1,500	110,000	-	-	1.123	25,000	495	-
25	22	27	02-15-67	1,870-1,881	4530L SD	ST	2,200	1,800	32,000	95	190	-	59,000	-	-	1.071	55,000	182	-
26	22	27	02-15-67	1,870-1,881	4530L SD	ST	2,200	1,800	32,000	95	190	-	59,000	-	-	1.071	55,000	182	-
27	24	26	02-00-67	2,166-2,171	4530L SD	SB	2,200	1,800	32,000	95	190	-	59,000	-	-	1.071	55,000	182	-
28	13	24	02-00-67	2,166-2,171	4530L SD	SB	2,200	1,800	32,000	95	190	-	59,000	-	-	1.071	55,000	182	-
29	24	26	02-00-67	2,166-2,171	4530L SD	SB	2,200	1,800	32,000	95	190	-	59,000	-	-	1.071	55,000	182	-
30	24	26	02-00-67	2,166-2,171	4530L SD	SB	2,200	1,800	32,000	95	190	-	59,000	-	-	1.071	55,000	182	-
31	24	26	02-00-67	2,166-2,171	4530L SD	SB	2,200	1,800	32,000	95	190	-	59,000	-	-	1.071	55,000	182	-
32	24	26	02-00-67	2,166-2,171	4530L SD	SB	2,200	1,800	32,000	95	190	-	59,000	-	-	1.071	55,000	182	-
33	24	26	02-00-67	2,166-2,171	4530L SD	SB	2,200	1,800	32,000	95	190	-	59,000	-	-	1.071	55,000	182	-
34	24	26	02-00-67	2,166-2,171	4530L SD	SB	2,200	1,800	32,000	95	190	-	59,000	-	-	1.071	55,000	182	-
35	24	26	02-00-67	2,166-2,171	4530L SD	SB	2,200	1,800	32,000	95	190	-	59,000	-	-	1.071	55,000	182	-
36	24	26	02-00-67	2,166-2,171	4530L SD	SB	2,200	1,800	32,000	95	190	-	59,000	-	-	1.071	55,000	182	-
37	24	26	02-00-67	2,166-2,171	4530L SD	SB	2,200	1,800	32,000	95	190	-	59,000	-	-	1.071	55,000	182	-
38	24	26	02-00-67	2,166-2,171	4530L SD	SB	2,200	1,800	32,000	95	190	-	59,000	-	-	1.071	55,000	182	-
39	24	26	02-00-67	2,166-2,171	4530L SD	SB	2,200	1,800	32,000	95	190	-	59,000	-	-	1.071	55,000	182	-
40	24	26	02-00-67	2,166-2,171	4530L SD	SB	2,200	1,800	32,000	95	190	-	59,000	-	-	1.071	55,000	182	-
41	24	26	02-00-67	2,166-2,171	4530L SD	SB	2,200	1,800	32,000	95	190	-	59,000	-	-	1.071	55,000	182	-
42	24	26	02-00-67	2,166-2,171	4530L SD	SB	2,200	1,800	32,000	95	190	-	59,000	-	-	1.071	55,000	182	-
43	24	26	02-00-67	2,166-2,171	4530L SD	SB	2,200	1,800	32,000	95	190	-	59,000	-	-	1.071	55,000	182	-
44	24	26	02-00-67	2,166-2,171	4530L SD	SB	2,200	1,800	32,000	95	190	-	59,000	-	-	1.071	55,000	182	-
45	24	26	02-00-67	2,166-2,171	4530L SD	SB	2,200	1,800	32,000	95	190	-	59,000	-	-	1.071	55,000	182	-
46	24	26	02-00-67	2,166-2,171	4530L SD	SB	2,200	1,800	32,000	95	190	-	59,000	-	-	1.071	55,000	182	-
47	24	26	02-00-67	2,166-2,171	4530L SD	SB	2,200	1,800	32,000	95	190	-	59,000	-	-	1.071	55,000	182	-
48	24	26	02-00-67	2,166-2,171	4530L SD	SB	2,200	1,800	32,000	95	190	-	59,000	-	-	1.071	55,000	182	-
49	24	26	02-00-67	2,166-2,171	4530L SD	SB	2,200	1,800	32,000	95	190	-	59,000	-	-	1.071	55,000	182	-
50	24	26	02-00-67	2,166-2,171	4530L SD	SB	2,200	1,800	32,000	95	190	-	59,000	-	-	1.071	55,000	182	-
51	24	26	02-00-67	2,166-2,171	4530L SD	SB	2,200	1,800	32,000	95	190	-	59,000	-	-	1.071	55,000	182	-
52	24	26	02-00-67	2,166-2,171	4530L SD	SB	2,200	1,800	32,000	95	190	-	59,000	-	-	1.071	55,000	182	-
53	24	26	02-00-67	2,166-2,171	4530L SD	SB	2,200	1,800	32,000	95	190	-	59,000	-	-	1.071	55,000	182	-

TABLE 9A.--WATER-QUALITY DATA FOR EDDY AND LEA COUNTIES, NEW MEXICO, ARRANGED BY RAIN-FORMATION SOURCE AND GEOGRAPHIC LOCATION.

EDDY COUNTRY										EDDY COUNTRY									
STATION	DATE OF COLLECTION	DEPTH FROM BOTTOM	SAMP. METHOD	LOCATION	SEC. T. R.	CALCIUM (MG/L)	MAGNESIUM (MG/L)	SODIUM + POTASSIUM (MG/L)	BI-CARBONATE (MG/L)	SULFATE (MG/L)	HYDROGEN SULFIDE (MG/L)	CHLORIDE (MG/L)	FLOU-RIDE (MG/L)	NIT-RATE (MG/L)	DENSITY OF WATER AT 20C (GM/ML)	DISSOLVED SOLIDS (MG/L)	SP-GR. AND CONC. (PPM)		
1	01-01-59	6.05-	45248	18	27	4.800	2.700	23.00	1.700	1.600	-	31.000	1.063	-	1.063	85.000	454		
2	09-21-59	6.95-	45248	10	18	4.700	1.100	12.000	1.600	1.300	-	28.000	1.038	-	1.038	48.000	476		
3	03-01-60	6.06-	45248	10	18	4.700	1.100	12.000	1.600	1.300	-	28.000	1.038	-	1.038	48.000	476		
4	03-01-60	6.06-	45248	10	18	4.700	1.100	12.000	1.600	1.300	-	28.000	1.038	-	1.038	48.000	476		
5	03-01-60	6.06-	45248	10	18	4.700	1.100	12.000	1.600	1.300	-	28.000	1.038	-	1.038	48.000	476		
6	03-01-60	6.06-	45248	10	18	4.700	1.100	12.000	1.600	1.300	-	28.000	1.038	-	1.038	48.000	476		
7	03-01-60	6.06-	45248	10	18	4.700	1.100	12.000	1.600	1.300	-	28.000	1.038	-	1.038	48.000	476		
8	03-01-60	6.06-	45248	10	18	4.700	1.100	12.000	1.600	1.300	-	28.000	1.038	-	1.038	48.000	476		
9	03-01-60	6.06-	45248	10	18	4.700	1.100	12.000	1.600	1.300	-	28.000	1.038	-	1.038	48.000	476		
10	03-01-60	6.06-	45248	10	18	4.700	1.100	12.000	1.600	1.300	-	28.000	1.038	-	1.038	48.000	476		
11	03-01-60	6.06-	45248	10	18	4.700	1.100	12.000	1.600	1.300	-	28.000	1.038	-	1.038	48.000	476		
12	03-01-60	6.06-	45248	10	18	4.700	1.100	12.000	1.600	1.300	-	28.000	1.038	-	1.038	48.000	476		
13	03-01-60	6.06-	45248	10	18	4.700	1.100	12.000	1.600	1.300	-	28.000	1.038	-	1.038	48.000	476		
14	03-01-60	6.06-	45248	10	18	4.700	1.100	12.000	1.600	1.300	-	28.000	1.038	-	1.038	48.000	476		
15	03-01-60	6.06-	45248	10	18	4.700	1.100	12.000	1.600	1.300	-	28.000	1.038	-	1.038	48.000	476		
16	03-01-60	6.06-	45248	10	18	4.700	1.100	12.000	1.600	1.300	-	28.000	1.038	-	1.038	48.000	476		
17	03-01-60	6.06-	45248	10	18	4.700	1.100	12.000	1.600	1.300	-	28.000	1.038	-	1.038	48.000	476		
18	03-01-60	6.06-	45248	10	18	4.700	1.100	12.000	1.600	1.300	-	28.000	1.038	-	1.038	48.000	476		
19	03-01-60	6.06-	45248	10	18	4.700	1.100	12.000	1.600	1.300	-	28.000	1.038	-	1.038	48.000	476		
20	03-01-60	6.06-	45248	10	18	4.700	1.100	12.000	1.600	1.300	-	28.000	1.038	-	1.038	48.000	476		
21	03-01-60	6.06-	45248	10	18	4.700	1.100	12.000	1.600	1.300	-	28.000	1.038	-	1.038	48.000	476		
22	03-01-60	6.06-	45248	10	18	4.700	1.100	12.000	1.600	1.300	-	28.000	1.038	-	1.038	48.000	476		
23	03-01-60	6.06-	45248	10	18	4.700	1.100	12.000	1.600	1.300	-	28.000	1.038	-	1.038	48.000	476		
24	03-01-60	6.06-	45248	10	18	4.700	1.100	12.000	1.600	1.300	-	28.000	1.038	-	1.038	48.000	476		
25	03-01-60	6.06-	45248	10	18	4.700	1.100	12.000	1.600	1.300	-	28.000	1.038	-	1.038	48.000	476		
26	03-01-60	6.06-	45248	10	18	4.700	1.100	12.000	1.600	1.300	-	28.000	1.038	-	1.038	48.000	476		
27	03-01-60	6.06-	45248	10	18	4.700	1.100	12.000	1.600	1.300	-	28.000	1.038	-	1.038	48.000	476		
28	03-01-60	6.06-	45248	10	18	4.700	1.100	12.000	1.600	1.300	-	28.000	1.038	-	1.038	48.000	476		
29	03-01-60	6.06-	45248	10	18	4.700	1.100	12.000	1.600	1.300	-	28.000	1.038	-	1.038	48.000	476		
30	03-01-60	6.06-	45248	10	18	4.700	1.100	12.000	1.600	1.300	-	28.000	1.038	-	1.038	48.000	476		
31	03-01-60	6.06-	45248	10	18	4.700	1.100	12.000	1.600	1.300	-	28.000	1.038	-	1.038	48.000	476		
32	03-01-60	6.06-	45248	10	18	4.700	1.100	12.000	1.600	1.300	-	28.000	1.038	-	1.038	48.000	476		
33	03-01-60	6.06-	45248	10	18	4.700	1.100	12.000	1.600	1.300	-	28.000	1.038	-	1.038	48.000	476		
34	03-01-60	6.06-	45248	10	18	4.700	1.100	12.000	1.600	1.300	-	28.000	1.038	-	1.038	48.000	476		
35	03-01-60	6.06-	45248	10	18	4.700	1.100	12.000	1.600	1.300	-	28.000	1.038	-	1.038	48.000	476		
36	03-01-60	6.06-	45248	10	18	4.700	1.100	12.000	1.600	1.300	-	28.000	1.038	-	1.038	48.000	476		
37	03-01-60	6.06-	45248	10	18	4.700	1.100	12.000	1.600	1.300	-	28.000	1.038	-	1.038	48.000	476		
38	03-01-60	6.06-	45248	10	18	4.700	1.100	12.000	1.600	1.300	-	28.000	1.038	-	1.038	48.000	476		
39	03-01-60	6.06-	45248	10	18	4.700	1.100	12.000	1.600	1.300	-	28.000	1.038	-	1.038	48.000	476		
40	03-01-60	6.06-	45248	10	18	4.700	1.100	12.000	1.600	1.300	-	28.000	1.038	-	1.038	48.000	476		
41	03-01-60	6.06-	45248	10	18	4.700	1.100	12.000	1.600	1.300	-	28.000	1.038	-	1.038	48.000	476		
42	03-01-60	6.06-	45248	10	18	4.700	1.100	12.000	1.600	1.300	-	28.000	1.038	-	1.038	48.000	476		
43	03-01-60	6.06-	45248	10	18	4.700	1.100	12.000	1.600	1.300	-	28.000	1.038	-	1.038	48.000	476		
44	03-01-60	6.06-	45248	10	18	4.700	1.100	12.000	1.600	1.300	-	28.000	1.038	-	1.038	48.000	476		
45	03-01-60	6.06-	45248	10	18	4.700	1.100	12.000	1.600	1.300	-	28.000	1.038	-	1.038	48.000	476		
46	03-01-60	6.06-	45248	10	18	4.700	1.100	12.000	1.600	1.300	-	28.000	1.038	-	1.038	48.000	476		
47	03-01-60	6.06-	45248	10	18	4.700	1.100	12.000	1.600	1.300	-	28.000	1.038	-	1.038	48.000	476		
48	03-01-60	6.06-	45248	10	18	4.700	1.100	12.000	1.600	1.300	-	28.000	1.038	-	1.038	48.000	476		
49	03-01-60	6.06-	45248	10	18	4.700	1.100	12.000	1.600	1.300	-	28.000	1.038	-	1.038	48.000	476		
50	03-01-60	6.06-	45248	10	18	4.700	1.100	12.000	1.600	1.300	-	28.000	1.038	-	1.038	48.000	476		
51	03-01-60	6.06-	45248	10	18	4.700	1.100	12.000	1.600	1.300	-	28.000	1.038	-	1.038	48.000	476		
52	03-01-60	6.06-	45248	10	18	4.700	1.100	12.000	1.600	1.300	-	28.000	1.038	-	1.038	48.000	476		

TABLE 1A.--WATER-QUALITY DATA FOR EDDY AND LEA COUNTIES, NEW MEXICO, ARRANGED BY DATA
FORMATION SOURCE AND GEOGRAPHIC LOCATION.

STATION		DATE OF COLLECTION		SAMP- LING METHOD	SILICA (SiO2) (MG/L)	IRON (FE) (MG/L)	CALCIUM (CA) (MG/L)	MAGNESIUM (MG) (MG/L)	SODIUM + POTASSIUM AT 18 (MG/L)	BICARBONATE AT 20C (MG/L)	SULFATE (SO4) (MG/L)	HYDROGEN SULFIDE (HS) (MG/L)	CHLORINE (CL) (MG/L)	FLUORIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DENSITY AT 20C (GM/ML)	DISSOLVED SOLIDS (SUM) (MG/L)
NO.	NAME	MO.	DAY														
1	10 18	27	01-01-59	FG			4.300	2.700	27.90	1.700	1.600		51.000	1.000	1.063	85.000	
2	10 18	27	01-01-59	FG			4.300	2.700	27.90	1.700	1.600		51.000	1.000	1.063	85.000	
3	10 18	27	01-01-59	DT			4.300	2.700	27.90	1.700	1.600		51.000	1.000	1.063	85.000	
4	10 18	27	01-01-59	DT			4.300	2.700	27.90	1.700	1.600		51.000	1.000	1.063	85.000	
5	10 18	27	01-01-59	DT			4.300	2.700	27.90	1.700	1.600		51.000	1.000	1.063	85.000	
6	10 18	27	01-01-59	DT			4.300	2.700	27.90	1.700	1.600		51.000	1.000	1.063	85.000	
7	10 18	27	01-01-59	DT			4.300	2.700	27.90	1.700	1.600		51.000	1.000	1.063	85.000	
8	10 18	27	01-01-59	DT			4.300	2.700	27.90	1.700	1.600		51.000	1.000	1.063	85.000	
9	10 18	27	01-01-59	DT			4.300	2.700	27.90	1.700	1.600		51.000	1.000	1.063	85.000	
10	10 18	27	01-01-59	DT			4.300	2.700	27.90	1.700	1.600		51.000	1.000	1.063	85.000	
11	10 18	27	01-01-59	DT			4.300	2.700	27.90	1.700	1.600		51.000	1.000	1.063	85.000	
12	10 18	27	01-01-59	DT			4.300	2.700	27.90	1.700	1.600		51.000	1.000	1.063	85.000	
13	10 18	27	01-01-59	DT			4.300	2.700	27.90	1.700	1.600		51.000	1.000	1.063	85.000	
14	10 18	27	01-01-59	DT			4.300	2.700	27.90	1.700	1.600		51.000	1.000	1.063	85.000	
15	10 18	27	01-01-59	DT			4.300	2.700	27.90	1.700	1.600		51.000	1.000	1.063	85.000	
16	10 18	27	01-01-59	DT			4.300	2.700	27.90	1.700	1.600		51.000	1.000	1.063	85.000	
17	10 18	27	01-01-59	DT			4.300	2.700	27.90	1.700	1.600		51.000	1.000	1.063	85.000	
18	10 18	27	01-01-59	DT			4.300	2.700	27.90	1.700	1.600		51.000	1.000	1.063	85.000	
19	10 18	27	01-01-59	DT			4.300	2.700	27.90	1.700	1.600		51.000	1.000	1.063	85.000	
20	10 18	27	01-01-59	DT			4.300	2.700	27.90	1.700	1.600		51.000	1.000	1.063	85.000	
21	10 18	27	01-01-59	DT			4.300	2.700	27.90	1.700	1.600		51.000	1.000	1.063	85.000	
22	10 18	27	01-01-59	DT			4.300										

Tejas Operators, Inc. seeks approval to reenter the plugged and abandoned Parker & Parsley Enfield Federal #1 located 660' FSL and 810' FEL, Section 17, T-24-S, R-28-E, Eddy County, New Mexico. The subject well is located 2 miles west and 1 mile south of Malaga, New Mexico.

Tejas will convert the well into a commercial salt water disposal well and inject a maximum of 3000 barrels of produced salt water per day from wells producing from the Delaware, Bone Springs, Atoka and Morrow in the area. Injection interval will be through selected perforations from 2550' to 6037' in the Delaware. Initial injection rates are anticipated to average 1500 barrels per day at an average injection pressure of 350 psi with a maximum requested injection pressure of 510 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.

3 The well was drilled in 1984 by Ned Maddox as an oil and gas test in the Delaware and was completed as a producer. The well tested for 20 barrels 41.1 gravity oil, 146 barrels of water and gas TSTM from perforations at 5991'-6001'. The well was plugged in 1987 by Parker and Parsley. 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 7/8" fiberglass lined tubing set in an Arrow tension packer to be set at

approximately 2530'. The tubing-casing annulus will be filled with an inert packer fluid.

The Delaware in the well is topped at 2512' and is 3500' thick. It is composed mostly of sands and shales with some thin interbedded limestones. Existing perforations were fractured, however, additional perforations to be made will require acidizing.

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 in the area will be 350' in the Rustler Anhydrite. Fresh water in the area is used primarily for watering livestock. 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 sources of drinking water.

The land upon which the well is located is federal land and is not presently leased for oil and gas exploration.

[illegible]