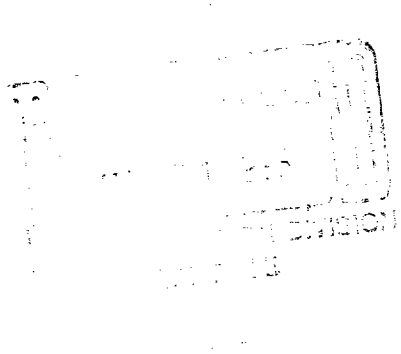
CITIES SERVICE OIL AND GAS CORPORATION
P. O. BOX 1919 MIDLAND, TEXAS 79702

(915) 685-5600

May 24, 1985



Oil Conservation Division
State Land Office Building
Box 2088
Santa Fe, New Mexico 87501

Dear Sirs:

Enclosed is the application to convert the Cities Service Oil and Gas Corporation's State DW #4 to a salt water disposal well. Copies of this form have been distributed to the appropriate NMOCD offices, as well as to the surface lessee and offset operators. Your prompt consideration of this application is appreciated.

Sincerely,

Rebecca A. Egg

Rebecca A. Egg
Petroleum Engineer

RAE/dty

Enclosures

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501

FORM C-108
Revised 7-1-81

APPLICATION FOR AUTHORIZATION TO INJECT

I. Purpose: ☐ Secondary Recovery ☐ Pressure Maintenance ☒ Disposal ☐ Storage
Application qualifies for administrative approval? ☐ yes ☐ no

II. Operator: Cities Service Oil and Gas Corporation

Address: P.O. Box 1919, Midland, Texas 79702

Contact party: Rebecca Egg Phone: 915/685-5600

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: Elmer W. Startz Title Region Operations Manager

Signature: Elmer W. Startz Date: 5-23-85

* 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. Part X - Logs submitted upon completion of the well (10-27-84).

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate Division district office.

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, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

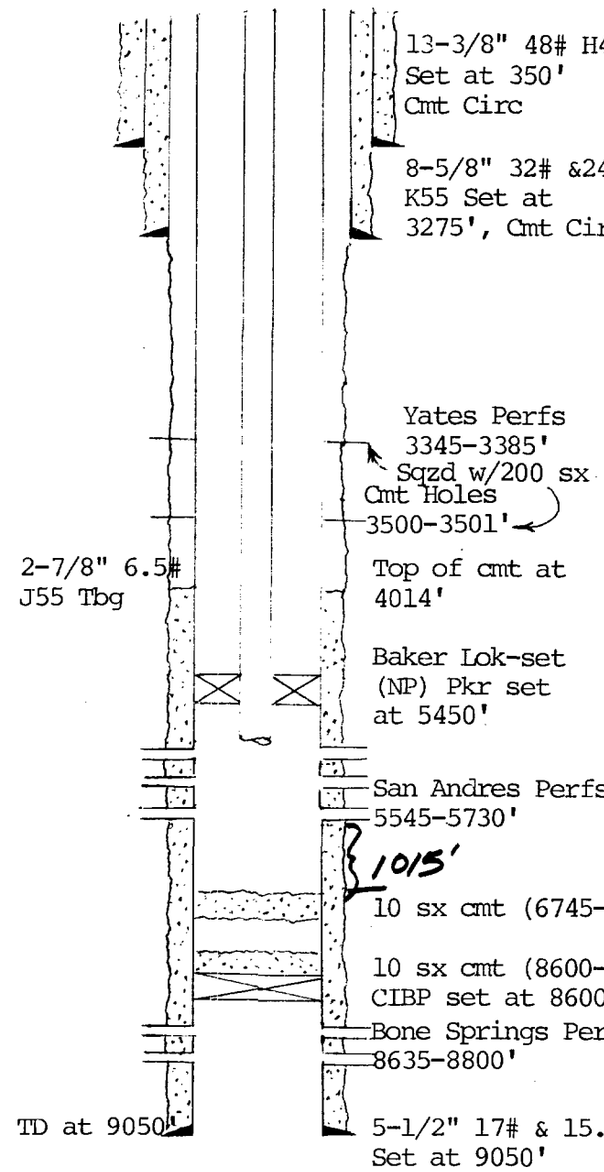
NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

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.

INJECTION WELL DATA SHEET

OPERATOR	LEASE			
Cities Service Oil and Gas Corporation	State DW			
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
4	1880' FNL, 1980' FWL	12	18S	33E

Schematic



Tabular Data

Surface Casing

Size 13-3/8 " Cemented with 500 sx.

TOC Surface feet determined by -

Hole size 17-1/2" Setting Depth 350'

Intermediate Casing

Size 8-5/8 " Cemented with 1500 sx.

TOC Surface feet determined by -

Hole size 11" Setting Depth 3275'

Long string

Size 5-1/2 " Cemented with 1925 sx.

TOC 4014 feet determined by Bond Log

Hole size 7-7/8" Setting Depth 9050'

Total depth 9050'

Injection interval

5545 feet to 5730 feet

(perforated or ~~xxxxxxxx~~ indicate which)

Tubing size 2-7/8" lined with plastic (material) set in a

Baker lok-set (nickel plated) (brand and model) packer at 5450 feet

(or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation San Andres

2. Name of Field or Pool (if applicable) Mescalero Escarpe

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

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

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) Bone Springs: 8635-8800'; CIBP at 8600', 10 sx: 8600-8500'; 10 sx: 6745-6645'; Yates: 3345-3385', squeezed with 200 sx

5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. Premier: 5114'; Bone Springs: 6680'

APPLICATION FOR OIL OR GAS WASTE DISPOSAL WELL PERMIT

VI. Wells Within Area of Review

Cities Service Oil and Gas Corporation, State DW #1 TOC @ 6490 Temp Survey

1980' FSL, 1650' FEL, Section 12, Township 18S, Range 33E
Bone Springs oil well (8803-8883')
PBTD 10,828', MTD 11,094'
NMOCD potential(4-18-84): Flowed 1026 bbls of 40.0° API gty oil and 25 bbls load water in 24 hours on 24/64" choke, FTP 540#, GR 820 MCFD, GOR 799, CDA 290 BOPD
Construction: 13.375" 48#, 61# & 68# H40, K55 & J55 set at 500' - C
8.625" 24# & 32# K55 & S80 set at 5283' - C
5.5" 17# N80 & K55 set at 10,866'

Cities Service Oil and Gas Corporation, State DW #2

1980' FSL, 1880' FWL, Section 12, Township 18S, Range 33E
Bone Springs oil well (8760-8820')
PBTD 9006', MTD 9050'
TOC @ 3070' T.S.
NMOCD potential(6-8-84): Flowed 247 bbls of 39.8° API gty oil and 25 bbls water in 12 hours on 14/64" choke, FTP 425#, GR 301 MCFD, GOR 1219, CDA 230 BOPD
Construction: 13.375" casing set at 362' - C
8.625" casing set at 3255' - TOC - 1510'
5.5" casing set at 9050'

Cities Service Oil and Gas Corporation, State DW #3

1980' FNL, 660' FEL, Section 12, Township 18S, Range 33E
Yates oil well (3459-3476')
PBTD 3400', MTD 8950'
TOC 3700' T.S.
NMOCD potential(10-17-84): Pumped 55 bbls of 33.9° API gty oil and 10 bbls water in 24 hours, GR 95 MCFD, GOR 1727, 11.5 X 33" SPM, CDA 55 BOPD
Construction: 13.375" 48# H40 set at 350' - C
8.625" 24# & 32# K55 set at 3303' - C
5.5" 15.5# and 17.0# K55 and N80 set at 8949'

Cities Service Oil and Gas Corporation, State DW #9

1980' FSL, 660' FWL, Section 12, Township 18S, Range 33E
Bone Springs oil well (8662-8721')
PBTD 8999', MTD 9050'
NMOCD potential(11-24-84): Flowed 238 bbls of 39.7° API gty oil and 43 bbls load water in 12 hours on 1" choke, FTP 100#, GR 450 MCFD, GOR 945, CDA 230 BOPD
Construction: 13.375" 48# H40 set at 343' - C
8.625" 24# and 32# K55 set at 3141' - C
5.5" 15.5# and 17.0# K55 and N80 set at 9047' - TOC- 3100' T.S.

VI. Wells With Area of Review (Continued)

Cities Service Oil and Gas Corporation, State DW #10

990' FSL, 2130' FWL, Section 12, Township 18S, Range 33E
Bone Springs oil well (8708-8761')
PBTD 9047', MTD 9097'
NMOCD potential(12-17-84): Flowed 254 bbls 39.6° API gty oil and 2 bbls water in 20 hours on 1" choke, FTP 40#, GR 466 MCFD, GOR 1528, CDA 230 BOPD
Construction: 13.375" 48# H40 set at 350' - C
8.625" 24# and 32# K55 set at 3150' - C
5.5" 15.5# and 17# K55 and N80 set at 9097' - TOC- 3450' T.S.

Cities Service Oil and Gas Corporation, State DW #11

990' FSL, 660' FWL, Section 12, Township 18S, Range 33E
Bone Springs oil well (8695-8741')
PBTD 9008', MTD 9050'
NMOCD potential (5-6-85): Pumped 51 bbls of 38.7° API gty oil and 7 bbls of water in 24 hours, GR 58 MCFD, GOR 1137, 6 X 144" SPM, CDA 51 BOPD
Construction: 13.375" casing set at 375' - C
8.625" casing set at 3160' - C
5.5" casing set at 9050' - TOC- 3550' T.S.

Cities Service Oil and Gas Corporation, Federal AB #1

1980' FNL, 660' FEL, Section 11, Township 18S, Range 33E
Bone Springs oil well (8631-8685')
PBTD 9757', MTD 13,780'
NMOCD potential (5-2-85): Pumped 373 bbls of 38.1° API gty oil and 20 bbls load water in 16 hours, GR 262 MCFD, GOR 468, CDA 230 BOPD
Construction: 13.375" 48# H40 set at 356' - C
9.625" 36# and 40# K55 and N80 set at 5300' - C
5.5" 17# N80 and S95 set at 13,779' - 5750'

Miller, British American State #2

660' FNL, 1980' FEL, Section 12, Township 18S, Range 33E
Drilled and abandoned San Andres test (7-18-56)
MTD 5481'
Construction: 8.625" casing set at 213'
Plugging information unavailable

Plugging report enclosed.

VII. Proposed Operation

1. Average injection rate 1000 BWPD, maximum rate 5000 BWPD.
2. Closed system.
3. Average injection pressure 800 psi, maximum pressure 2000 psi.
4. Bone Springs, Yates (See Attachments 2 and 3).
5. San Andres water analysis from well located approximately 5.3 miles northwest of State DW #4 (Attachment 4).

VIII. Geologic Data

Injection zone: San Andres
Thickness: 742'
Lithology: Dolomite
Depth: 5114' (-996')
Depth of Bottom of Deepest Fresh Water Zone in Area: 300'

IX. Proposed Stimulation Program

Acidize with 8000-10,000 gallons 15% NeFe HCl.

X. Well Logs on File

NMOCD Potential (10-27-84): Pumped 36 bbls of 40.0° API gty oil and 28 bbls load water in 24 hours. GR 44.2 MCFD, GOR 1228, 6 X 144" SPM, CDA 36 BOPD

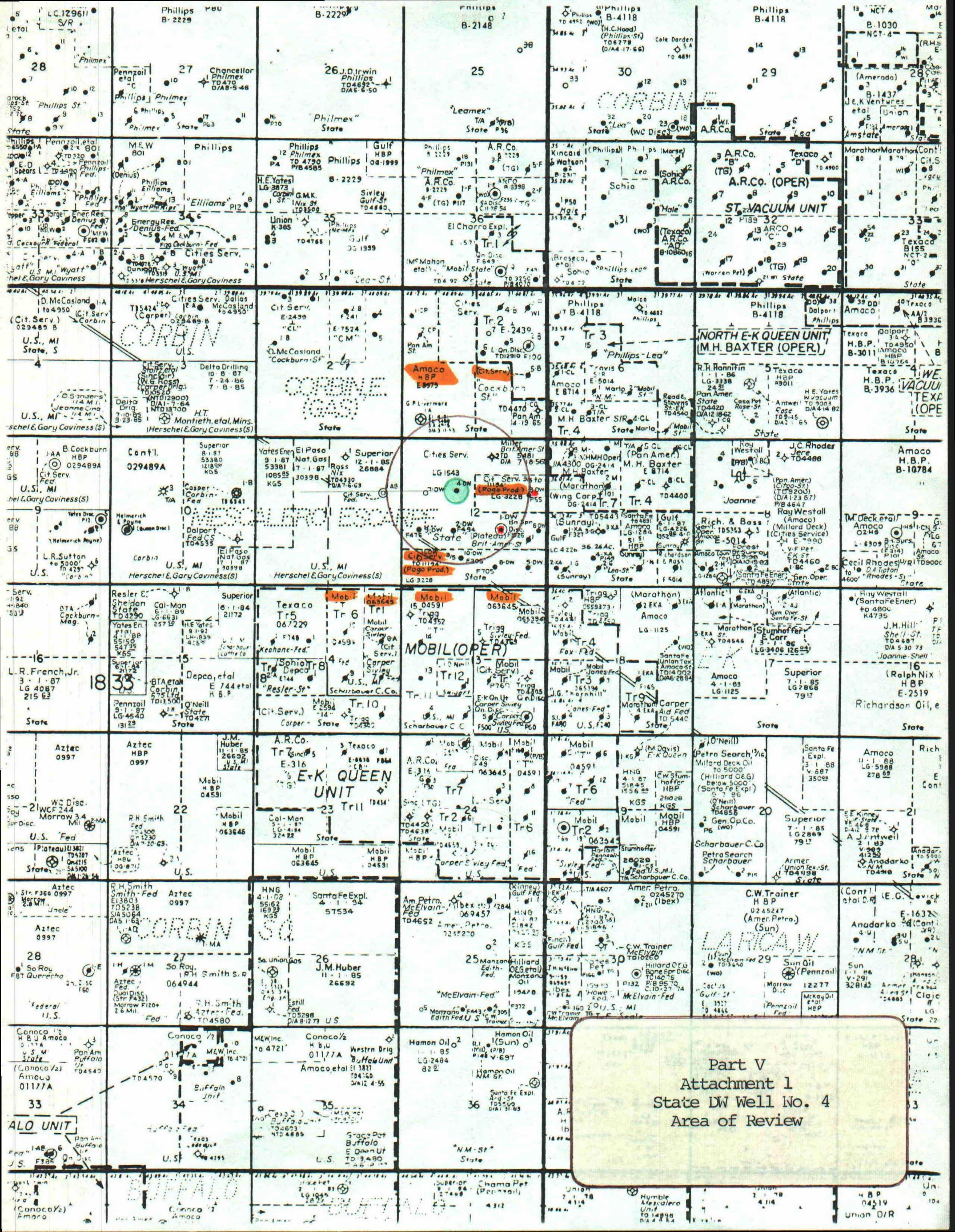
Other Test Data:

12-1-84: Pumped 8 BOPD, 20 BWPD in 24 hours
12-18-84: Pumped 8 BOPD, 21 BWPD, 35 MCFD in 24 hours
3-6-85: Pumped 11 BOPD, 108 BWPD in 24 hours

IX. Water Analysis From Well Located Approximately 1056' FSL, 634' FEL Section 12, Township 18S, Range 33E (Attachment 5).

No other fresh water wells within 1 mile of State DW #4 are available

XII. Available engineering and geologic data for the vicinity of State DW #4 has been examined and no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water was found.



Part V
Attachment 1
State DW Well No. 4
Area of Review

UNICHEM INTERNATIONAL

601 NORTH LEECH P.O.BOX1499

HOBBS, NEW MEXICO 88240

COMPANY : CITIES SERVICE
DATE : 6-19-84
FIELD,LEASE&WELL : STATE DW #2
SAMPLING POINT: WELLHEAD
DATE SAMPLED : 6-13-84

SPECIFIC GRAVITY = 1.011
TOTAL DISSOLVED SOLIDS = 18177
PH = 6.2

		ME/L	MG/L
CATIONS			
CALCIUM	(CA)+2	53.3	1068.
MAGNESIUM	(MG)+2	66.6	810
SODIUM	(NA).CALC.	202.	4665.
ANIONS			
BICARBONATE	(HCO3)-1	.8	48.8
CARBONATE	(CO3)-2	0	0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	12.1	583.
CHLORIDES	(CL)-1	310	11000
DISSOLVED GASES			
CARBON DIOXIDE	(CO2)	NOT RUN	
HYDROGEN SULFIDE	(H2S)	NOT RUN	
OXYGEN	(O2)	NOT RUN	
IRON(TOTAL)	(FE)		415
BARIUM	(BA)+2	0	.6
MANGANESE	(MN)	NOT RUN	

IONIC STRENGTH (MOLAL) =.392

SCALING INDEX	TEMP
	30C 86F
CARBONATE INDEX	-1.4
CALCIUM CARBONATE SCALING	UNLIKELY
CALCIUM SULFATE INDEX	-27.
CALCIUM SULFATE SCALING	UNLIKELY

Part VII (4)
Attachment 2
Injection Water Analysis
Bone Springs
From: State DW #2
1980' FSL, 1880' FWL
Sec 12-18S-33E

P. O. BOX 1468
MONAHANS, TEXAS 79756
PH. 943-3234 OR 563-1040

Martin Water Laboratories, Inc.

709 W. INDIANA
MIDLAND, TEXAS 79701
PHONE 683-4521

RESULT OF WATER ANALYSES

LABORATORY NO. 1134391

TO: Mr. Gary Timmerman
P.O.Box 1919, Midland, Texas

SAMPLE RECEIVED 11-19-84

RESULTS REPORTED 11-29-84

COMPANY Cities Service Oil Company LEASE State "DW" #4

FIELD OR POOL Mescalero

SECTION ___ BLOCK ___ SURVEY ___ COUNTY Lea STATE Texas

SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1 Produced water - taken from State "DW" #3, 11-15-84 YATES

NO. 2

NO. 3

NO. 4

REMARKS:

CHEMICAL AND PHYSICAL PROPERTIES	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0754			
pH When Sampled				
pH When Received	7.27			
Bicarbonate as HCO_3	1,098			
Supersaturation as $CaCO_3$				
Undersaturation as $CaCO_3$				
Total Hardness as $CaCO_3$	13,000			
Calcium as Ca	2,800			
Magnesium as Mg	1,458			
Sodium and/or Potassium	40,947			
Sulfate as SO_4	940			
Chloride as Cl	71,019			
Iron as Fe	8.3			
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	118,262			
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen, Winkler				
Hydrogen Sulfide	0.0			
Resistivity, ohms/m at 77° F.	0.083			
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks: We are not familiar with the zone being produced herein, but our last record on this well reported on analysis #884355 (8-28-84) indicated it to be San Andres at that time. Our nearest record of San Andres is some five miles to the north, and we fail to get correlation between this water and that record. Contact for any additional assistance in this matter.

Form No. 3

By

Part VII (4)
Attachment 3
Injection Water Analysis-Yates
From: State DW #3
1980' FNL, 660' FEL
Sec 12-18S-33E

CARDINAL

ANALYTICAL SERVICE
LABORATORY

44304
03-31-80

COMPANY CITIES SERVICE	COUNTY	LEASE SMGSAU
ADDRESS	FIELD	WELL NO. 409
ATTENTION	FORMATION	DEPTH
RECENT TREATMENT	DATE SAMPLED 03-27-80	SAMPLE SOURCE

WATER ANALYSIS

SPECIFIC GRAVITY 1.1350 AT 75F PH 7.60

	MG/L	MEQ		MG/L	MEQ
CHLORIDE	106000.00	2985.92	CALCIUM	2800.00	140.00
BICARBONATE	717.36	11.76	MAGNESIUM	960.00	80.00
SULFATE	4800.00	100.00	DISS. IRON	3.00	0.11
SULFIDE	NIL		SODIUM	66184.06	2877.57
TOTAL HARDNESS	11000.00		TOTAL DISSOLVED SOLIDS	181464.42	6195.35

RESISTIVITY 0.052 OHM METERS AT 75F

SCALING TENDENCIES

CALCIUM CARBONATE STABILITY INDEX	TEMP.	CALCIUM SULFATE CON.	SOL.	TEMP.	INDX.
1.42	60F	100.00	92.54	50F	7.46
1.83	99F	100.00	92.54	95F	7.46
2.55	140F	100.00	91.83	122F	8.17
3.50	180F	100.00	92.54	176F	7.46

INDICES GREATER THAN ZERO INDICATE POSITIVE SCALING TENDENCIES
STABILITY INDEX LESS THAN ZERO INDICATES POSITIVE CORROSION TENDENCIES
ERROR IN STABILITY INDEX IS DIRECTLY PROPORTIONAL TO THE
LOSS OF ANY ACID GASES FROM SAMPLE WHILE IN TRANSIT TO LAB

REMARKS SURFACE TENSION: 64.3 DYNES/CM

ANALYST KLEIN

REPRESENTATIVE SMITH

Part VII (5)
Attachment 4
Injection Zone Water Analysis
From: S.E. Maljamar GBSA Unit #409
2615' FNL, 25' FWL, Sec 29-17S-33E

P O. BOX 1468
MONAHANS. TEXAS 79756
PH. 943-3234 OR 563-1040

Martin Water Laboratories, Inc.

709 W. INDIANA
MIDLAND. TEXAS 79701
PHONE 683-4521

RESULT OF WATER ANALYSES

LABORATORY NO. 58558

TO: Ms. Rebecca Egg
P.O.Box 1919, Midland, Texas

SAMPLE RECEIVED 5-9-85
RESULTS REPORTED 5-10-85

COMPANY Cities Services Oil & Gas Company LEASE State "DW"

FIELD OR POOL

SECTION ___ BLOCK ___ SURVEY ___ COUNTY Lea STATE NM

SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1 Raw water - taken from Hackberry Windmill. 5-8-85

NO. 2

NO. 3

NO. 4

REMARKS:

CHEMICAL AND PHYSICAL PROPERTIES	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0010			
pH When Sampled				
pH When Received	7.55			
Bicarbonate as HCO_3	205			
Supersaturation as $CaCO_3$				
Undersaturation as $CaCO_3$				
Total Hardness as $CaCO_3$	176			
Calcium as Ca	62			
Magnesium as Mg	5			
Sodium and/or Potassium	15			
Sulfate as SO_4	15			
Chloride as Cl	17			
Iron as Fe	0.09			
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	319			
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen, Winkler				
Hydrogen Sulfide	0.0			
Resistivity, ohms/m at 77° F.	31.00			
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks The undersigned certifies the above to be true and correct to the best of his knowledge and belief.

Part XI
Attachment 5
Fresh Water Analysis
From: Hackberry Windmill
Approx 1056' FSL, 634' FEL
Sec 12-18S-33E

Form No. 3

By Ronnie D. Tucker

Ronnie D. Tucker, B. S.

PS Form 3811, Jan. 1979

SENDER: Complete items 1, 2, and 3. Add your address in the "RETURN TO" space on reverse.

1. The following service is requested (check one.)
- [X] Show to whom and date delivered.....¢
- [ ] Show to whom, date and address of delivery.....¢
- [ ] RESTRICTED DELIVERY
  Show to whom and date delivered.....¢
- [ ] RESTRICTED DELIVERY.
  Show to whom, date, and address of delivery.$

(CONSULT POSTMASTER FOR FEES)

2. ARTICLE ADDRESSED TO:
Mobil Prod. - TX - N.M.
Box 1800
Hobbs N.M.

3. ARTICLE DESCRIPTION:

REGISTERED NO.	CERTIFIED NO.	INSURED NO.
	396 019 815	

(Always obtain signature of addressee or agent)

I have received the article described above.
SIGNATURE [ ] Addressee [ ] Authorized agent

4. C. C. Roper
DATE OF DELIVERY 5-17-85
POSTMARK MAY 17 1985 HOBBS NM

5. ADDRESS (Complete only if requested) –

6. UNABLE TO DELIVER BECAUSE: CLERK'S INITIALS CD

☆GPO : 1979-288-848

RETURN RECEIPT, REGISTERED, INSURED AND CERTIFIED MAIL

PS Form 3811, Jan. 1979

SENDER: Complete items 1, 2, and 3. Add your address in the "RETURN TO" space on reverse.

1. The following service is requested (check one.)
- [X] Show to whom and date delivered.....¢
- [ ] Show to whom, date and address of delivery.....¢
- [ ] RESTRICTED DELIVERY
  Show to whom and date delivered.....¢
- [ ] RESTRICTED DELIVERY.
  Show to whom, date, and address of delivery.$

(CONSULT POSTMASTER FOR FEES)

2. ARTICLE ADDRESSED TO:
Amoco Production Co.
Box 68
Hobbs N.M.

3. ARTICLE DESCRIPTION:

REGISTERED NO.	CERTIFIED NO.	INSURED NO.
	396 019 814	

(Always obtain signature of addressee or agent)

I have received the article described above.
SIGNATURE [ ] Addressee [ ] Authorized agent

4. Jane Daily
DATE OF DELIVERY
POSTMARK MAY 17 1985 HOBBS NM

5. ADDRESS (Complete only if requested)

6. UNABLE TO DELIVER BECAUSE: CLERK'S INITIALS MG

☆GPO : 1979-288-848

RETURN RECEIPT, REGISTERED, INSURED AND CERTIFIED MAIL

PS Form 3811, Jan. 1979

SENDER: Complete items 1, 2, and 3. Add your address in the "RETURN TO" space on reverse.

1. The following service is requested (check one.)
- [X] Show to whom and date delivered.....¢
- [ ] Show to whom, date and address of delivery.....¢
- [ ] RESTRICTED DELIVERY
  Show to whom and date delivered.....¢
- [ ] RESTRICTED DELIVERY.
  Show to whom, date, and address of delivery.$

(CONSULT POSTMASTER FOR FEES)

2. ARTICLE ADDRESSED TO:
Pogo Production
Box 10340
Midland TX

3. ARTICLE DESCRIPTION:

REGISTERED NO.	CERTIFIED NO.	INSURED NO.
	396 019 812	

(Always obtain signature of addressee or agent)

I have received the article described above.
SIGNATURE [ ] Addressee [ ] Authorized agent

4. Jane M. Maylard
DATE OF DELIVERY
POSTMARK MIDLAND, TX MAY 16 1985 USPS

5. ADDRESS (Complete only if requested)

6. UNABLE TO DELIVER BECAUSE: CLERK'S INITIALS

☆GPO : 1979 288-848

RETURN RECEIPT, REGISTERED, INSURED AND CERTIFIED MAIL

PS Form 3811, Jan. 1979

SENDER: Complete items 1, 2, and 3. Add your address in the "RETURN TO" space on reverse.

1. The following service is requested (check one.)
- [X] Show to whom and date delivered.....¢
- [ ] Show to whom, date and address of delivery.....¢
- [ ] RESTRICTED DELIVERY
  Show to whom and date delivered.....¢
- [ ] RESTRICTED DELIVERY.
  Show to whom, date, and address of delivery.$

(CONSULT POSTMASTER FOR FEES)

2. ARTICLE ADDRESSED TO:
Bill Lee
W. Stanolind, Box 465
Lovington N.M. 88260

3. ARTICLE DESCRIPTION:

REGISTERED NO.	CERTIFIED NO.	INSURED NO.
	396 019 813	

(Always obtain signature of addressee or agent)

I have received the article described above.
SIGNATURE [ ] Addressee [ ] Authorized agent

4. Bill L. Lee
DATE OF DEL 5-21

5. ADDRESS (Cor

6. UNABLE TO D

RETURN RECEIPT, REGISTERED, INSURED AND CERTIFIED MAIL

ATTACHMENT 6
PART XIV
PROOF OF NOTICE

AFFIDAVIT OF PUBLICATION

State of New Mexico,

County of Lea.

I, _____

Robert L. Summers

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 in a supplement thereof for a period

of _____

One weeks.

Beginning with the issue dated

May 13, 19 85

and ending with the issue dated

May 13, 19 85

Robert L. Summers
Publisher.

Sworn and subscribed to before me this 13 day of May, 1985

Vera Murphy
Notary Public.

My Commission expires

Nov. 14, 1988
(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 (26)
MAY 13, 1985

Cities Service Oil and Gas Corporation, Has applied to the New Mexico Oil Conservation Division for a permit to dispose of produced salt water or other oil and gas waste by well injection into a porous formation not productive of oil and gas. The applicant proposes to dispose of oil and gas waste into the State DW No. 4, located 1880' FNL and 1980' FWL of Section 12, Township 18S, Range 33E. A maximum of 5000 BWPD will be injected into the San Andres formation over the interval from 5545-5730', at a maximum pressure of 2000 psi. 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 days of this publication.

ATTACHMENT 7
PART XIV (CONT)
AFFIDAVIT OF PUBLICATION

MAIN OFFICE OCC

HOBBS OFFICE OCC

Form C-103
(Revised 3-55)

NEW MEXICO OIL CONSERVATION COMMISSION

MISCELLANEOUS REPORTS ON WELLS

(Submit to appropriate District Office as per Commission Rule 1106)

COMPANY P. W. Miller Drilling & Production Company, Box 207, Midland, Texas
(Address)

LEASE British American-State WELL NO. 2 UNIT S 12 T 18-S R 33-E

DATE WORK PERFORMED July 17, 1956 POOL Undesignated

This is a Report of: (Check appropriate block)

- [ ] Beginning Drilling Operations
- [X] Plugging
- [ ] Results of Test of Casing Shut-off
- [ ] Remedial Work
- [ ] Other

Detailed account of work done, nature and quantity of materials used and results obtained.

Mudded off	5487-5130	
20 sax cement	5130-5050	
Mudded off	5050-4420	
30 sax cement	4420-4320	
Mudded off	4320-1800	
20 sax cement	1800-1750	
Mudded off	1750- 250	
20 sax cement	250- 190	
20 sax cement	25- to surface	by Halliburton

FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY

Original Well Data:

DF Elev. 4103 TD 5487 PBD _____ Prod. Int. _____ Compl Date 7-17-56

Tbng. Dia _____ Tbng Depth _____ Oil String Dia _____ Oil String Depth _____

Perf Interval (s) _____

Open Hole Interval _____ Producing Formation (s) _____

RESULTS OF WORKOVER:	BEFORE	AFTER
Date of Test		
Oil Production, bbls. per day		
Gas Production, Mcf per day		
Water Production, bbls. per day		
Gas-Oil Ratio, cu. ft. per bbl.		
Gas Well Potential, Mcf per day		

STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

HOBBS DISTRICT OFFICE

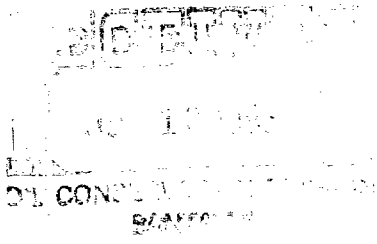
June 3, 1985

TONEY ANAYA
GOVERNOR

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88240
(505) 393-6161

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

RE: Proposed:
MC_____
DHC_____
NSL_____
NSP_____
SWD X
WFX_____
PMX_____



Gentlemen:

I have examined the application for the:

Cities Service Oil & Gas Corp. State DW No. 4-F 12-18-33
Operator Lease & Well No. Unit S-T-R

and my recommendations are as follows:

O.K.----J.S.

Yours very truly,

Jerry Sexton
Supervisor, District 1

/mc