

MARTIN YATES, III
1912 - 1985
FRANK W. YATES
1936 - 1986



105 SOUTH FOURTH STREET
ARTESIA, NEW MEXICO 88210
TELEPHONE (505) 748-1471

RELEASE 12-7-92

S. P. YATES
CHAIRMAN OF THE BOARD
JOHN A. YATES
PRESIDENT
PEYTON YATES
EXECUTIVE VICE PRESIDENT
RANDY G. PATTERSON
SECRETARY
DENNIS G. KINSEY
TREASURER

November 19, 1992

CERTIFIED RETURN RECEIPT

State of New Mexico
OIL CONSERVATION DIVISION
P. O. Box 2088
Santa Fe, NM 87501

Attn: Mr. David Catanach

Dear Mr. Catanach,

Enclosed please find a copy of form C-108 (Application for Authority to Inject) on Yates Federal "A" #1 located in Unit F of Section 21-20S-29E, Eddy County, New Mexico.

Should you have any questions, please feel free to contact me at (505) 748-1471.

Sincerely,

Brian Collins
Petroleum Engineer

BC/th

Enclosure

APPLICATION FOR AUTHORIZATION TO INJECT

- I. Purpose: ☐ Secondary Recovery ☐ Pressure Maintenance ☒ Disposal ☐ Storage
Application qualifies for administrative approval? ☐ yes ☐ no
- II. Operator: Yates Petroleum Corporation
Address: 105 S. 4th Street
Contact party: Brian Collins Phone: (505) 748-1471
- 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: Brian Collins Title Petroleum Engineer
Signature: *Brian Collins* Date: November 19, 1992
- * 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.

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.

C-108
Application For Authorization To Inject
Yates Petroleum Corporation
Yates Federal "A" #1
F 21-20S-29E
Eddy County, New Mexico

- I. The purpose of completing this well is to make a disposal well for produced Morrow, Atoka and Strawn water into the Delaware Sand formation.

Yates Petroleum plans to convert this well to a water disposal well into the Delaware Sand. This well was plugged in 1988.

- II. Operator: Yates Petroleum Corporation
105 South Fourth Street
Artesia, NM 88210
Brian Collins (505) 748-1471

- III. Well Data: See Attachment A

- IV. This is not an expansion of an existing project.

- V. See attached map, Attachment B

- VI. No wells within 1/2 mile penetrate the Delaware Sand.

- VII. 1. Proposed average daily injection volume approximately 1,500 BWPD.
Maximum daily injection volume approximately 3,000 BWPD.

2. This will be a closed system.

3. Proposed average injection pressure-unknown.
Proposed maximum injection pressure--682 psi.

4. Sources of injected water would be produced water from the Morrow, Atoka and Strawn. (See Attachment C)

5. See Attachment C.

- VIII. 1. The proposed injection interval is the portion of the Delaware Sand formation consisting of porous Sandstone from estimated depths: 3410' - 3530'
3950' - 4075'
4160' - 4300'
5165' - 5385'

2. Possible Fresh water zones overlie the proposed injection formations at depths to approximately 400' feet. There are no fresh water zones underlying the formation.

- IX. The proposed disposal interval might be acidized with 7-1/2% HCL acid and/or fraced with crosslinked gelled water and 20/40 Sand.

Application for Authorization to Inject
Yates Federal "A" #1

-2-

- X. Logs were filed at your office when the well was drilled.
- XI. No windmills exist within a one mile radius of the subject location.
- XII. Yates Petroleum Corporation has examined geologic and engineering data and has found that there is no evidence of faulting in the proposed interval.
- XIII. Proof of Notice
 - A. Certified letters sent to the surface owner and offset operators attached. (Attachment D)
 - B. Copy of legal advertisement attached. (Attachment E)
- XIV. Certification is signed.

Yates Petroleum Corporation
Yates Federal "A" #1
F- 21-T20S-R29E

Attachment A

Page 1

III. Well Data

A. 1. Lease Name/Location:

Yates Federal "A" #1

F-21-T20S-R29E

1980' FNL & 1980' FWL

2. Casing Strings:

a. Present Well Condition

13 3/8", 48#, K55 @ 543' w/650 sx.

8 5/8", 24 & 32#, K55 @ 3124' w/2650 sx.

4 1/2", 11.6 & 13.5#, N80 @ 11258' w/1450 sx.

TOC - Approximately 3100' CBL

TD @ 12,000

Atoka 11002' - 11006'

Pkr 10900' with plug in pkr.

CIBP 10880'

Wolfcamp 9402' - 9470'

Cement plug 9500' - 8600'

Bone Spring 7816' - 8072'

CIBP 7775' + 35' cement

Cement plug 6600' - 6500'

Delaware 5190' - 5608' Sqzd.

Cement plug 5600' - 5140'

Delaware 4287', 4344' Sqzd.

Cement plug 4300' - 4200'

Delaware 3437' - 3518' Sqzd.

Cement plug 3175' - 2944'

Sqz. holes 1000'

Cement plug 1000' to surface

3. Proposed well condition:

Casing same as above.

2 7/8" 6.5 J55 or 2 3/8" 4.7 J55 plastic-coated injection tubing @ 3350'.

4. Propose to use Guiberson or Baker plastic-coated or nickel-plated packer set at 3350'.

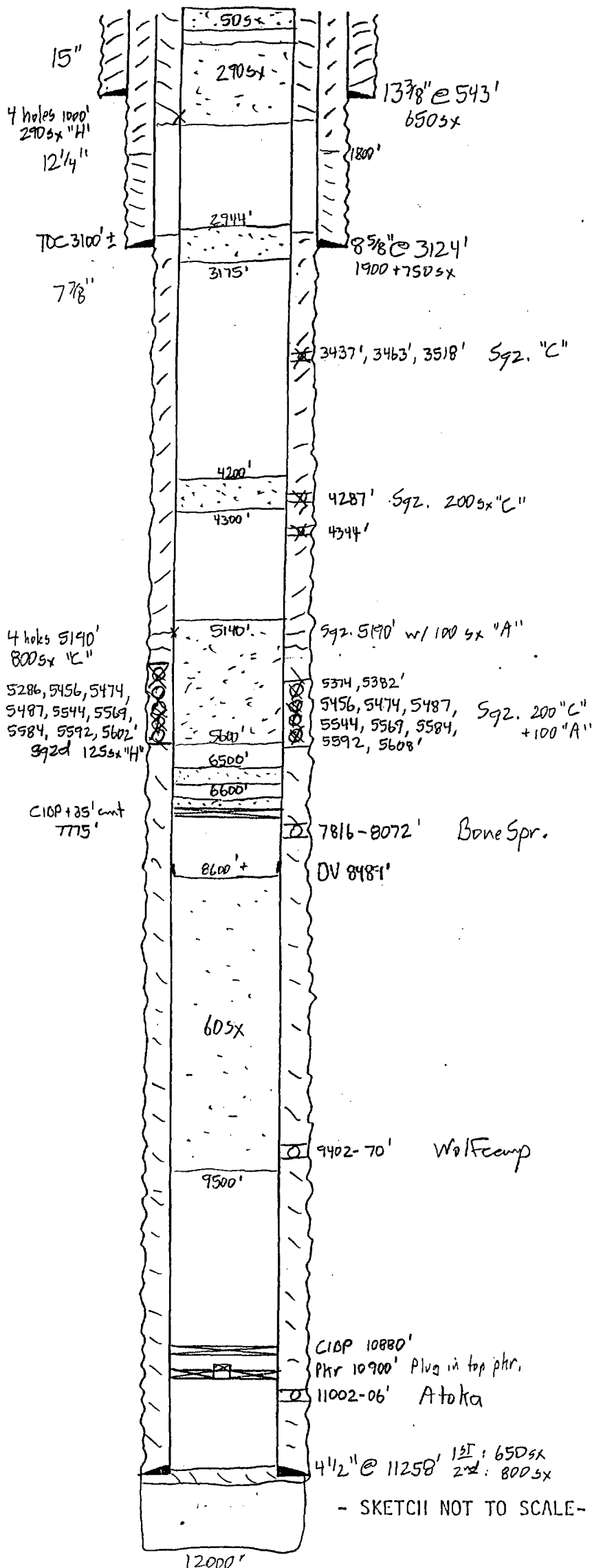
B. 1. Injection Formation: Delaware Sand

2. Injection Interval will be through perforations from approximately 3410' - 5385'.
3. Well will be Delaware Sand water disposal well (3410' - 5385') when work is completed.
4. Perforations: 3410' - 3530', 3950' - 4075', 4160' - 4300', 5165' - 5385'.
5. Next higher (shallower) oil or gas zone within 2 miles--Yates, Seven Rivers.
Next lower (deeper) oil or gas zone within 2 miles--Delaware.

WELL NAME: Yates Fed. A-1 FIELD AREA: Worton Flat
 LOCATION: 1980' FNL, FWL 21-20s-29c Eddy NM
 GL: 3271' ZERO: 18' AGL:
 KB: 3289' ORIG. DRLG./COMPL. DATE:
 COMMENTS:

CASING PROGRAM:

SIZE/WT./GR./CONN.	DEPTH S
13 3/8 48 K55 STC	543'
8 5/8 24.32 K55	3124'
4 1/2 11.6, 13.5 N80	1125'



Attachment A: Current Status

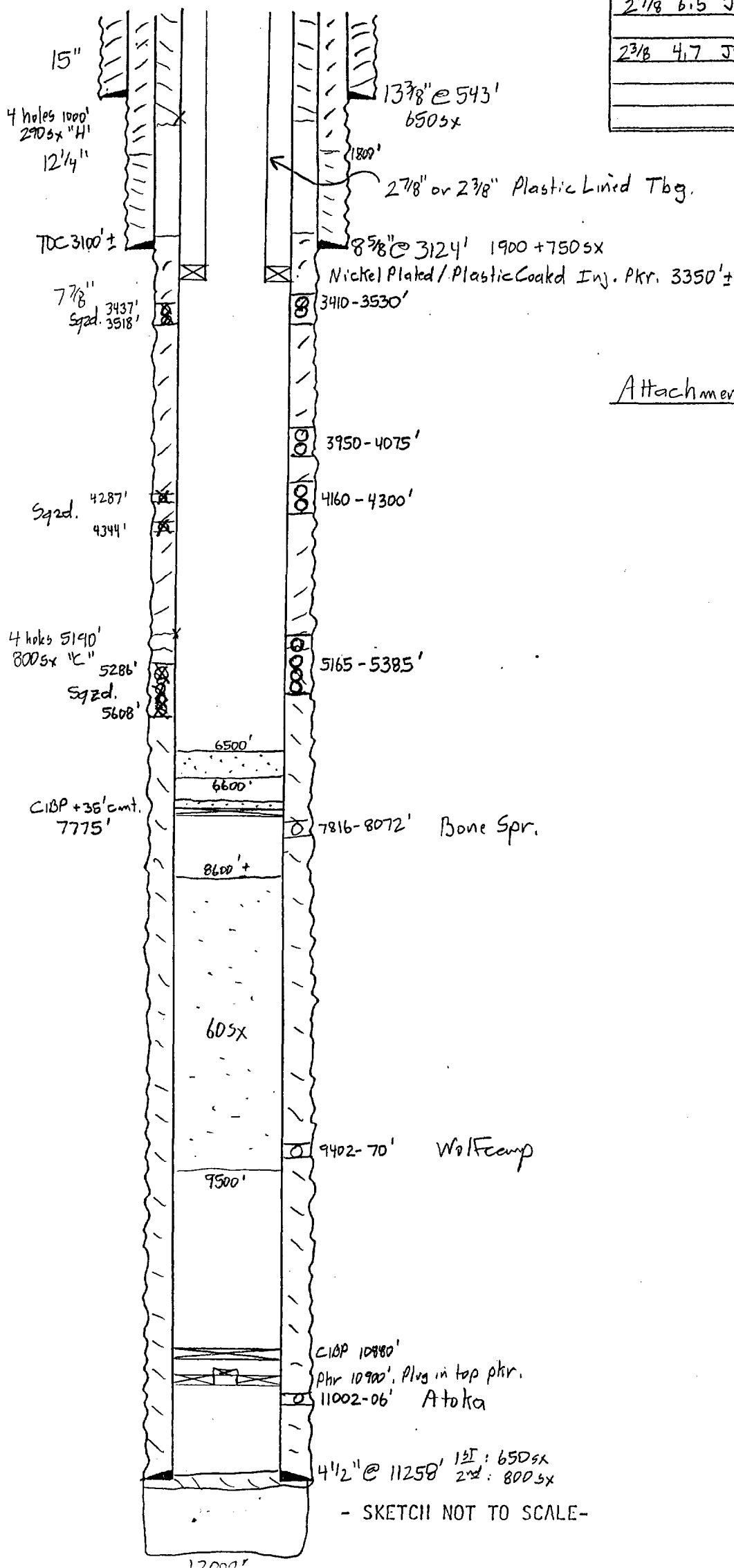
- SKETCH NOT TO SCALE -

REVISED:

WELL NAME: Yates Fed. A-1 FIELD AREA: Burton Flat
 LOCATION: 1980' FNL, FNL 21-20s-29e Eddy NM
 GL: 3271' ZERO: 18' AGL:
 KB: 3289' ORIG. DRLG./COMPL. DATE:
 COMMENTS:

CASING PROGRAM:

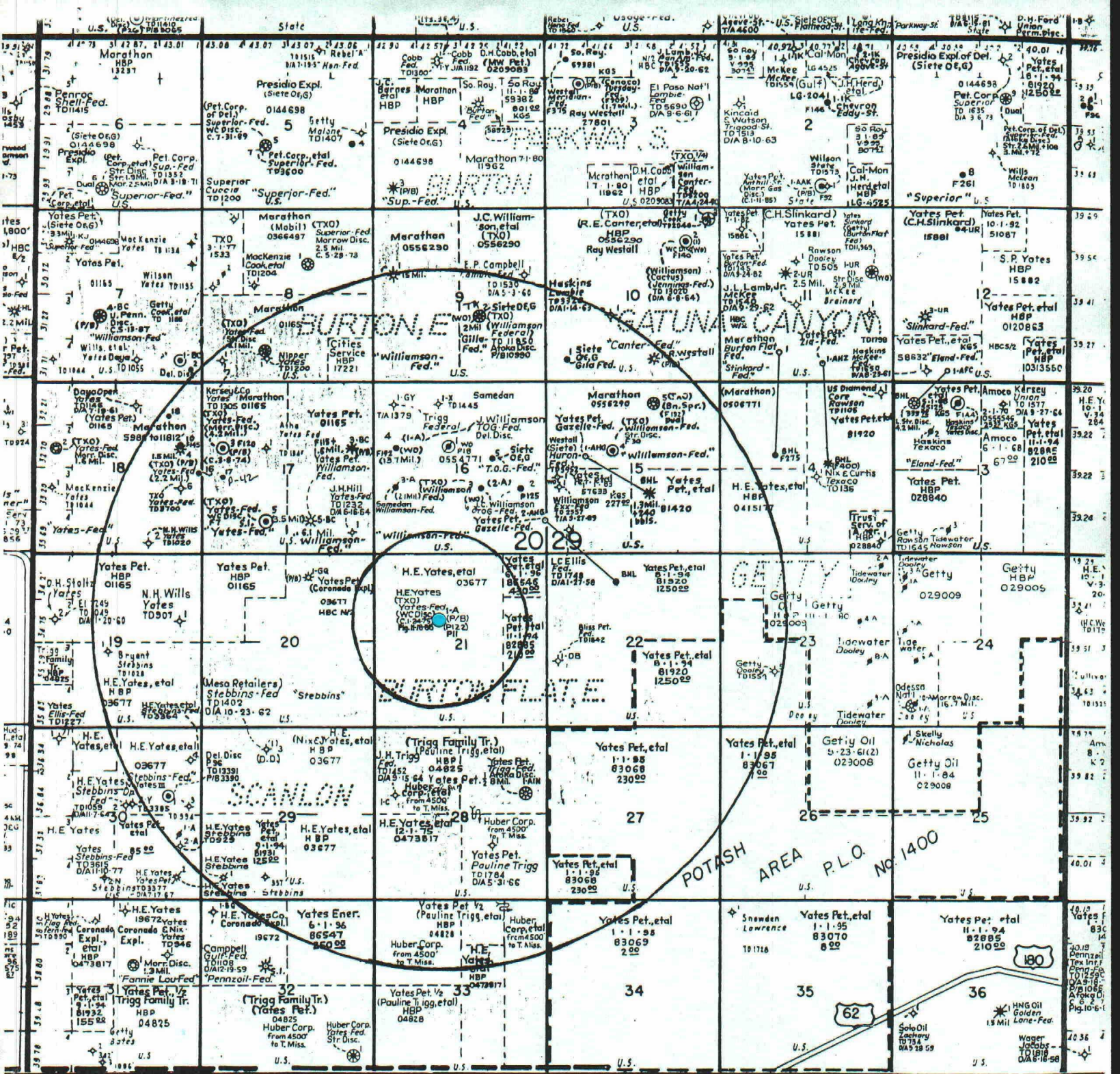
SIZE/WT./GR./CONN.	DEPTH S
13 7/8 48 K55 STC	543'
8 5/8 24.32 K55	3124'
4 1/2 116, 13.5 N80	11258'
2 7/8 6.5 J55 EVE plastic lined	3350'
- or -	
2 3/8 4.7 J55 EVE plastic lined	3350'



Attachment A: Proposed Schematic

- SKETCH NOT TO SCALE-

REVISED:



YATES PETROLEUM CORPORATION

YATES FEDERAL "A" #1

PROPOSED SALT WATER DISPOSAL

SEC. 21-20S-29E

1980'FNL & 1980'FWL

EDDY COUNTY, NEW MEXICO

ATTACHMENT B

THE WESTERN COMPANY OF NORTH AMERICA
WATER ANALYSIS

ANALYSIS NO: 0603915

GENERAL INFORMATION

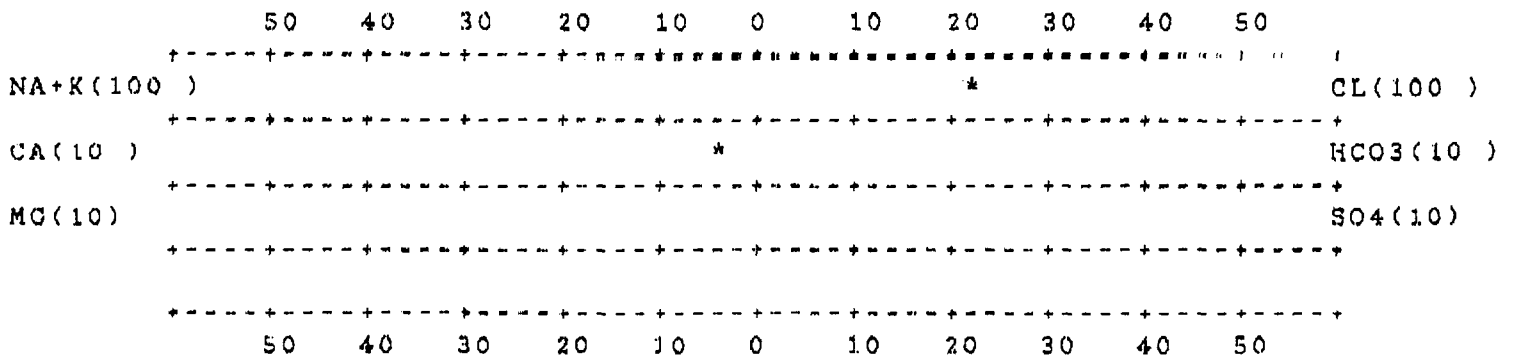
OPERATOR:	YATES	DEPTH:	
WELL:	TRIGG AIN FED #1	DATE SAMPLED:	6-2-91
FIELD:		DATE RECEIVED:	6-2-91
FORMATION:		SUBMITTED BY:	RIG CREW
COUNTY:		WORKED BY:	JAMESON
STATE:	NM	PHONE:	505-392-5556

SAMPLE DESCR: DRILL STEM TEST-SAMPLE CHAMBER

PHYSICAL AND CHEMICAL DETERMINATIONS

SPECIFIC GRAVITY: 1.075 AT 79 DEG. F		PH = 7.30	
IRON:	NOT DETERMINED	SULFATE:	NOT DETERMINED
FE2+:	0 PPM		
FE3+:	ND PPM		
SODIUM+POTASS:	NOT DETERMINED	CHLORIDE:	83702 PPM
		SODIUM CHLORIDE (CALC):	137983 PPM
CALCIUM:	559 PPM	BICARBONATE:	NOT DETERMINED
MAGNESIUM:	NOT DETERMINED	TOT. HARDNESS AS CaCO3:	0 PPM
PHOSPHATE:	NOT DETERMINED	TOT. DISSOLVED SOLIDS:	NOT CALCULATED
RESISTIVITY (CALCULATED): 0.074 OHM/METER @ 75 DEGREES F.			
REMARKS: WATER			

STIFF TYPE PLOT (IN MEQ/L)



ANALYST

JAMESON

TRETOLITE®

Chemicals and Services

PETROLITE

16010 Barker's Point Lane • Houston, Texas 77079
713 558-5200 • Telex: 4620346 • FAX: 713 589-4737Reply to: P.O. Box 5250
Hobbs, New Mexico 88241
(505) 392-6711 Phone
(505) 392-3759 Fax**WATER ANALYSIS REPORT**
-----Company : YATES PETROLEUM
Address : ARTESIA, NM
Lease : SLINKARD UR FEDERAL
Well : #4
Sample Pt. : WELLHEADDate : 08/09/91
Date Sampled : 08/08/91
Analysis No. : 1

ANALYSIS		mg/L	* meq/L
-----		----	-----
1. pH	5.8		
2. H2S	1		
3. Specific Gravity	1.090		
4. Total Dissolved Solids		145846.8	
5. Suspended Solids			
6. Dissolved Oxygen			
7. Dissolved CO2			
8. Oil In Water			
9. Phenolphthalein Alkalinity (CaCO3)			
10. Methyl Orange Alkalinity (CaCO3)			
11. Bicarbonate	HCO3	159.0	HCO3 2.6
12. Chloride	Cl	89886.0	Cl 2535.6
13. Sulfate	SO4	175.0	SO4 3.6
14. Calcium	Ca	9680.0	Ca 483.0
15. Magnesium	Mg	1609.5	Mg 132.4
16. Sodium (calculated)	Na	44287.4	Na 1926.4
17. Iron	Fe	0.0	
18. Barium	Ba	50.0	
19. Strontium	Sr	0.0	
20. Total Hardness (CaCO3)		30800.0	

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter	Compound	Equiv wt	X meq/L	= mg/L
+-----+				
483 *Ca <----- *HCO3	Ca (HCO3) 2	81.0	2.6	211
----- /----->	CaSO4	68.1	3.6	248
132 *Mg -----> *SO4	CaCl2	55.5	476.8	26457
----- <----- /	Mg (HCO3) 2	73.2		
1926 *Na -----> *Cl	MgSO4	60.2		
+-----+	MgCl2	47.6	132.4	6303
Saturation Values Dist. Water 20 C	NaHCO3	84.0		
CaCO3 13 mg/L	Na2SO4	71.0		
CaSO4 * 2H2O 2090 mg/L	NaCl	58.4	1926.4	112577
BaSO4 2.4 mg/L				

REMARKS:

----- L. MALLETT / R. ALLISON / MLAB / FILE

Petrolite Oilfield Chemicals Group

Respectfully submitted,
STEVE TIGERT

HALLIBURTON DIVISION LABORATORY

HALLIBURTON SERVICES

MIDLAND DIVISION

ARTESIA, NEW MEXICO 88210

LABORATORY WATER ANALYSIS

No. _____

To Yates PetroleumDate 10-11-84207 South 4thArtesia, New Mexico 88210

This report is the property of Halliburton Company and neither it nor any part thereof nor a copy thereof is to be published or disclosed without first securing the express written approval of laboratory management; it may however, be used in the course of regular business operations by any person or concern and employees thereof receiving such report from Halliburton Company.

Submitted by _____ Date Rec. 10-11-84Well No. Anthill #1 Depth 6140' Formation BonespringsCounty Eddy Field 52-20-29 Source DST #1

	Mud Pit	Top Recovery	Top of Tools
Resistivity	0.096 @ 67°F	0.098 @ 68°F	.097 @ 68°F
Specific Gravity	1.09	1.09	1.09
pH	8.5	7.0	6.9
Calcium (Ca)	1670		1800 *MPL
Magnesium (Mg)	300		240
Chlorides (Cl)	77,000	75,000	76,000
Sulfates (SO ₄)	Heavy	Heavy	Heavy
Bicarbonates (HCO ₃)	150		150
Soluble Iron (Fe)	Nil	Nil	Nil
.....			
.....			
.....			

Remarks:

*Milligrams per liter

Warren Lane
Respectfully submitted,

Analyst: _____
cc: _____

HALLIBURTON COMPANY

NOTICE

This report is limited to the described sample tested. Any user of this report agrees that Halliburton shall not be liable for any loss or damage, whether it be to act or omission, resulting from such report or its use.

HALLIBURTON SERVICES

ARTESIA DISTRICT

LABORATORY REPORT

No. W435-89TO Mr. Mike SlaterDate August 31, 1989Yates Petroleum Corporation105 South Fourth StreetArtesia, NM 88210

This report is the property of Halliburton Services and neither it nor any part thereof, nor a copy thereof, is to be published or disclosed without first securing the express written approval of laboratory management. It may, however, be used in the course of regular business operations by any person or concern and employees thereof receiving such report from Halliburton Services.

Submitted by _____ Date Rec. August 31, 1989Well No. Eland #1 Depth _____ Formation MorrowField _____ County _____ Source WellheadResistivity 0.072 @ 70°Specific Gravity .. 1.0871 @ 70°pH 6.8Calcium 10,261Magnesium 319Chlorides 75,000Sulfates NilBicarbonates 214Soluble Iron Medium

Remarks:


Respectfully submittedAnalyst: Eric Jacobson - EIT

HALLIBURTON SERVICES

NOTICE:

This report is for information only and the content is limited to the sample described. Halliburton makes no warranties, express or implied, as to the accuracy of the contents or results. Any user of this report agrees Halliburton shall not be liable for any loss or damage, regardless of cause, including any act or omission of Halliburton, resulting from the use hereof.

ATTACHMENT D

MARTIN YATES, III
1912 - 1985
FRANK W. YATES
1936 - 1986



105 SOUTH FOURTH STREET
ARTESIA, NEW MEXICO 88210
TELEPHONE (505) 748-1471

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TREASURER

November 19, 1992

CERTIFIED RETURN RECEIPT

State of New Mexico
OIL CONSERVATION DIVISION
Drawer DD
Artesia, NM 88210

Attn: Mr. Mike Williams

Dear Mr. Williams,

Enclosed please find a copy of form C-108 (Application for Authority to Inject) on Yates Federal "A" #1 located in Unit F of Section 21-20S-29E, Eddy County, New Mexico.

Should you have any questions, please feel free to contact me at (505) 748-1471.

Sincerely,

Brian Collins
Petroleum Engineer

BC/th

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November 19, 1992

CERTIFIED RETURN RECEIPT

Bureau of Land Management
P. O. Box 1778
Carlsbad, NM 88220

Dear Sir,

Enclosed please find a copy of form C-108 (Application for Authority to Inject) on Yates Federal "A" #1 located in Unit F of Section 21-20S-29E, Eddy County, New Mexico.

Should you have any questions, please feel free to contact me at (505) 748-1471.

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CERTIFIED RETURN RECEIPT

Harvey E. Yates Company
P. O. Box 1933
Roswell, NM 88201

Dear Sir,

Enclosed please find a copy of form C-108 (Application for Authority to Inject) on Yates Federal "A" #1 located in Unit F of Section 21-20S-29E, Eddy County, New Mexico.

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TXO Production Company
900 Wilco Bldg.
Midland, TX 79701

Dear Sir,

Enclosed please find a copy of form C-108 (Application for Authority to Inject) on Yates Federal "A" #1 located in Unit F of Section 21-20S-29E, Eddy County, New Mexico.

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J. C. Williamson
P. O. Box 16890
Midland, TX 79702

Dear Sir,

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Siete Oil & Gas Corporation
P. O. Box 2523
Roswell, NM 88201

Dear Sir,

Enclosed please find a copy of form C-108 (Application for Authority to Inject) on Yates Federal "A" #1 located in Unit F of Section 21-20S-29E, Eddy County, New Mexico.

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Samedan Oil Corporation
10 Desta Dr. Suite 240
Midland, TX 79705

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Coronado Exploration Corporation
1007 Marquette, NW
Albuquerque, NM 87102

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Brian Collins
Petroleum Engineer

BC/th

Enclosure

MARTIN YATES, III
1912 - 1985
FRANK W. YATES
1936 - 1986



105 SOUTH FOURTH STREET
ARTESIA, NEW MEXICO 88210
TELEPHONE (505) 748-1471

S. P. YATES
CHAIRMAN OF THE BOARD
JOHN A. YATES
PRESIDENT
PEYTON YATES
EXECUTIVE VICE PRESIDENT
RANDY G. PATTERSON
SECRETARY
DENNIS G. KINSEY
TREASURER

November 19, 1992

Artesia Daily Press
503 W. Main
Artesia, NM 88210

Gentlemen,

Yates Petroleum Corporation desires to place a public notice in your newspaper for one day. The notice is enclosed.

Please place this notice in your paper on Sunday, November 22, 1992 and forward a copy of it along with your billing as soon as possible to:

Yates Petroleum Corporation
105 S. 4th Street
Artesia, NM 88210
Attn: Brian Collins

If you have any questions, please contact me at 748-1471, Ext. 182. Thank you for your cooperation in this matter.

Sincerely,

Brian Collins
Engineer

BC/th

Enclosure

Attachment E

Legal Notice

Yates Petroleum Corporation, 105 South Fourth Street, Artesia, NM 88210, has filed form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for an injection well. The proposed well, the "Yates Federal A #1" located 1980' FNL & 1980' FWL of Section 21, Township 20 South, Range 29 East of Eddy County, New Mexico, will be used for saltwater disposal. Disposal waters from the Morrow, Atoka and Strawn will be re-injected into the Delaware Sand at a depth of 3410' - 5385' with a maximum pressure of 682 psi and a maximum rate of 3,000 BWPD.

All interested parties opposing the aforementioned must file objections or requests for a hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, NM 87501, within 15 days. Additional information can be obtained by contacting Brian Collins at (505) 748-1471.