

## 105 SOUTH FOURTH STREET ARTESIA, NEW MEXICO 88210

TELEPHONE (505) 748-1471

CHAIRMAN OF THE BOARD

JOHN A. VATES
PRESIDENT

PEYTON YATES
EXECUTIVE VICE PRESIDENT
RANDY G. PATTERSON
SECRETARY

DENNIS G. KINSEY
TREASURER

S. P. YATES

May 16, 1991

CERTIFIED RETURN RECEIPT

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

Dear Sir,

Enclosed please find our application for authorization to inject for the Roy "AET" #3 located in Section 7-19S-25E of Eddy County.

If you have any questions, you may contact me at (505) 748-1471 Ext. 187. Thank you.

Sincerely,

Paul Ragsdale

Petroleum Engineer

PR/th

Enclosures

Signature: 🗸

#### **DIL CONSERVATION DIVISION**

POST OFFICE BUX 2018
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501

FORM C-108 Revised 7-1-81

APPLICA	ATION FOR AUTHORIZATION TO INJECT				
ı.	Purpose: ☐ Secondary Recovery ☐ Pressure Maintenance ☒ Disposal ☐ Storage Application qualifies for administrative approval? ☐ yes ☐ no				
11.	Operator: Yates Petroleum Corporation				
	Address: 105 S. 4th Street Artesia, NM 88210				
	Contact party: Paul Ragsdale 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  you no If yes, give the Division order number authorizing the project				
٧.	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:				
	<ol> <li>Proposed average and maximum daily rate and volume of fluids to be injected;</li> <li>Whether the system is open or closed;</li> <li>Proposed average and maximum injection pressure;</li> <li>Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and</li> <li>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.).</li> </ol>				
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.				
χ.	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: Paul Ragsdale  Title  Petroleum Engineer				

\* 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.

Knyldull

4-16-91

\_\_ Date: .

#### III. WELL DATA

- A. The following well data must be submitted for each injection well covered by this applie: The data must be both in tabular and achematic form and shall include:
  - (1) Lease name; Well No.; location by Section, Township, and Range; and footage technion within the section.
  - (2) Each easing string used with its size, setting depth, sucks of cement used, hule 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 should 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 perferated or open-hole.
  - (3) State if the well was drilled for injection or, if not, the original purpose of the s
  - (4) Give the depths of any other perforated intervals and detail on the sacks of cement of 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 bearing with the Oil Conservation Division, P. O. Box 2008, Santa Fe, New Mexico 87501 within 15 Jays.

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

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.

# Application For Authorization To Inject Yates Petroleum Corporation Roy "AET" #3 P 7-19S-25E

Eddy County, New Mexico

I. The purpose of drilling this well is to make a disposal well for Dagger Draw Upper Pennsylvanian waters (re-injected produced waters) into the Devonian and Ellenberger formations.

Yates Petroleum plans to make this well a disposal well in the Devonian and Ellenberger formations.

- II. Operator: Yates Petroleum Corporation 105 South Fourth Street Artesia, NM 88210 Paul Ragsdale (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. 1 well within the area of review penetrates the proposed injection zone. (Attachment C)
- VII. 1. Proposed average daily injection volume approximately 8000 BWPD.

  Maximum daily injection volume approximately 10,000 BWPD.
  - 2. This will be a closed system.
  - 3. Proposed average injection pressure-1500 psi Proposed maximum injection pressure--2200 psi.
  - 4. Sources of injected water would be produced water from the Dagger-Upper Pennsylvanian. (See Attachment D)
  - 5. See Attachment E.
- VIII. 1. The proposed injection interval is the portion of the Devonian and Ellenberger formations consisting of porous sands and dolomites from estimated depths of 9750' to 11,150'.

Application for Authorization to Inject Roy "AET" #3
-2-

- Possible Fresh water zones overlie the proposed injection formations at depths to approximately 300' feet.
- IX. The proposed disposal interval will be acidized with 30,000 gallons of 15% HCL acid.
- X. Logs for the Roy "AET" #3 are enclosed.
- XI. One water well exists within a one mile radius of the subject location. It is located in 17-19S-25E. (Attachment F)
- 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 G)
  - B. Copy of legal advertisement attached. (Attachment H)
  - XIV. Certification is signed.

#### Yates Petroleum Corporation Roy "AET" #3 P 7-T19S-R25E

## Attachment A Page 1

#### III. Well Data

A. 1. Lease Name/Location:
Roy "AET" #3
P 7-T19S-R25E
810' FSL & 660' FEL

- 2. Casing Strings:
  - a. Present Well Condition
    40' of 20" w/5 yards Ready Mix
    9-5/8" 36#, J55 @ 1213' w/1100 sx
    7" 23# casing @ 11,180' and cemented
    with 3685 sx of cement in 3 stages
    with cement circulated to surface.

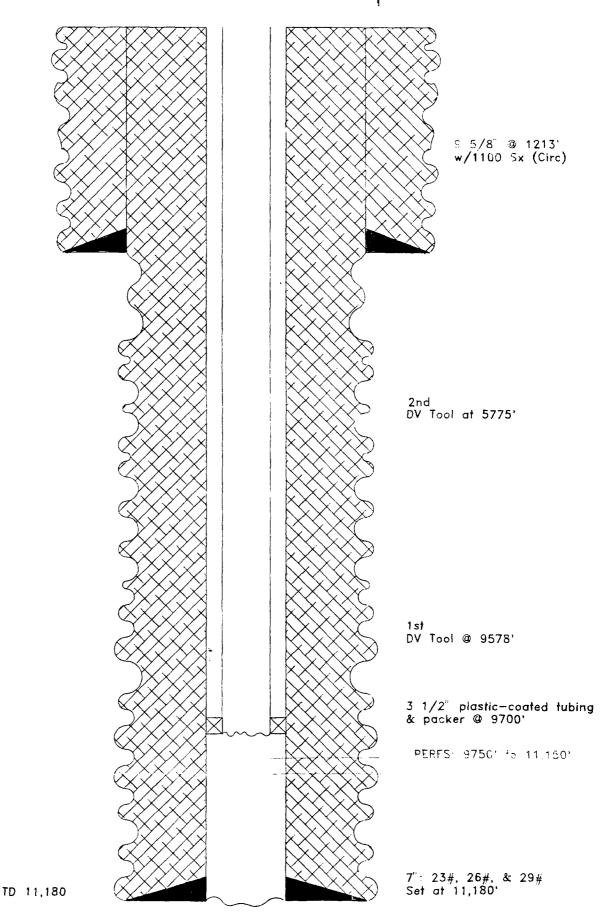
TD: 11,180'

- 3. Tubing:
   Propose to use 3 1/2" 9.2# J-55 plastic coated tubing set at 9700'.
- 4. Packer:
  Propose to use Guiberson Uni VI or Baker
  plastic-coated or nickel-plated packer set
  at 9700'.
- B. 1. Injection Formation:
  - a. Devonian Dolomite @ 9760'
  - b. Montoya Dolomite @ 10,286'
  - c. Ellenberger Dolomite @ 10,601'
  - d. Bliss Sand @ 11,007'
  - 2. Injection Interval will be through perforations from approximately 9760'-11,150'.
  - Well was originally drilled as an exploratory gas well, but after testing, decision made for salt water disposal well.
  - 4. Perforations: 9760'-11,150'
  - 5. Next higher (shallower) oil or gas zone within 1/2 mile--None within 2 miles--Canyon. Next lower (deeper) oil or gas zone within 1/2 mile--None within 2 miles--None.

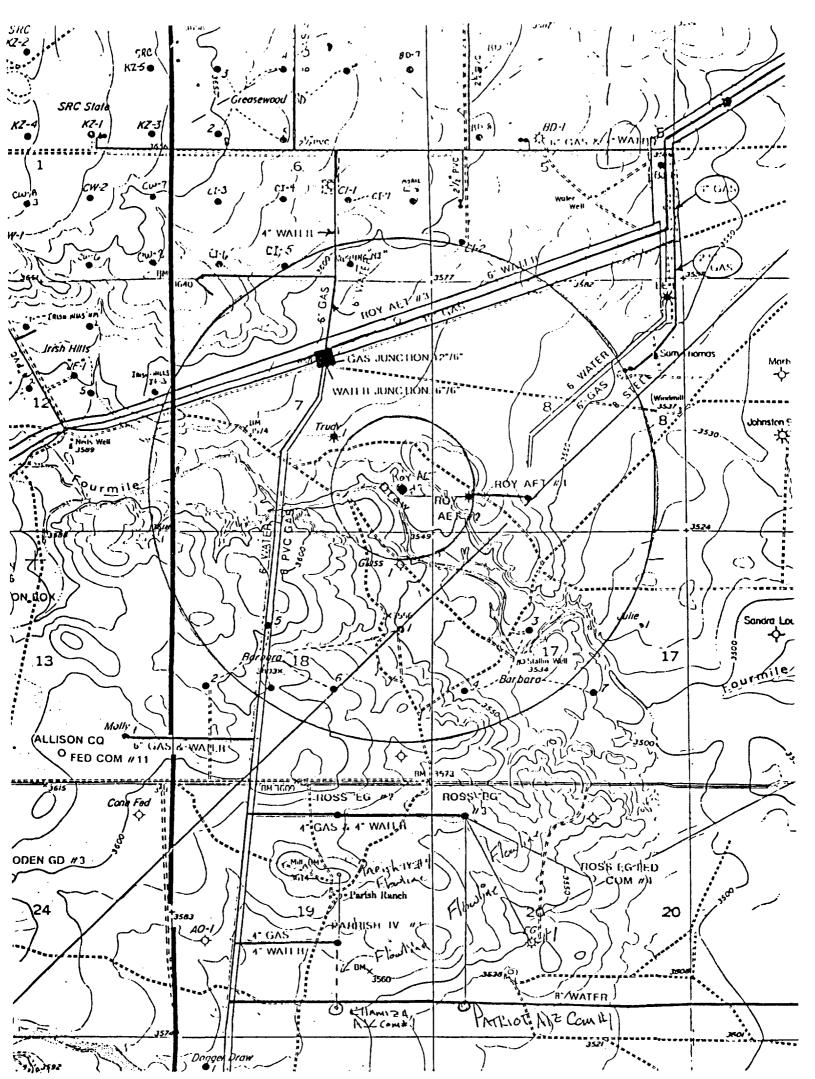
# YATES PETROLEUM CORP. Roy "AET" #3

Sec. 7 T19S-R25E 810' FSL & 660' FEL Eddy County, New Mexico Proposed Salt Water Disposal Well

Map #91016



PLAN TO RUN APPROXIMATELY 11,150' OF 7" 23# CASING, CIRCULATING CEMENT BACK TO SURFACE, WILL COMPLETE FOR SALT WATER DISPOSAL WITH 3 1/2" 9.6# J-55 PLASTIC-COATED TUBING AND GUIBERSON VI OR BAKER PLASTIC-COATED OR NICKEL-PLATED PACKER SET @ APPROXIMATELY 9700' WITH AN INERT FLUID WITH INHIBITORS IN THE ANNULUS. PROPOSED TO INJECT DAGGER DRAW — UPPER PENNSYLVANIAN PRODUCED WATERS THROUGH MISS/DEVONIAN, MONTOYA, ELLENBERGER, AND BLISS SAND PERFORATIONS FROM APPROXIMATELY 9750'-11,150'.



## YATES PETROLEUM CORPORATION ROY "AET" #3

PROPOSED SALT WATER DISPOSAL WELL

SEC. 7 - 19S - 25E

810' FSL & 660' FEL

**EDDY COUNTY, NEW MEXICO** 

ATTACHMENT B

Roy "AET" #3 Form C-108

Tabulation of Data on Wells Within Area of Review

Completion Information	9 5/8 a 1195 w/1100 sx 7 a 8250 w/2250 sx 2 7/8 a 7946
ing Perforations	7796'-7912'
Producing Zone	Pennsylvanian
Total Depth	8250'
Total Producing  se Spud Completed Depth Zone	01/16/91 8250′
Spud	11/26/90
Type	1;0
Operator	YPC
Well Name Operator TY	Roy "AET" #2 M 8-19S-25E

13414

## HALLIBURTON DIVISION LABORATORY IMMUSURIOR SERVICES

## AUTESTA, NEW MEXICO 88210

LADDRATORY WATER ANALYSIS

No. W65, W66, & W67-

To Yates Petroleum Corporation		Date		
105 South Fourth Street  Artesia, NM 88210  Submitted by		This report is the property of Halliburian Campany and a it nor any feart thereof nor a copy thereof is to be put or disclared without first securing the express written appeal laboratory managements it may however, be used to course of regular business operations by any person or exand employees thereof receiving such report from Hallit Campany.		
County	Field	Source		
	Ross EC Fed. #2	Foster AN Com. #1	Parlah IV Comm.	
Resistivity	.91 @ 60°	.9 @ 60°	.89 P 60°	
Specific Gravity	1.005 @ 60°	1.005 @ 60°	1.005 0 60*	
p!1	7.5	7.3	7.0	
Calcium (Ca)	1,000	1,000	1',000 *;	
Magnesium (Mg)	600	500	650	
Chlorides (CI)	4,000	5,000	5,000	
Sulfates (SO <sub>4</sub> )	<u>Heavy</u>	Heavy	lleavy .	
Bicarbonates (HCO3)	1,200	1,000	1,100	
Soluble Iron (ie)	N i 1	N i. 1	Nil	
•••••		-		
***************************************	1111	· · · · · · · · · · · · · · · · · · ·		
***************************************		•		
Remarks:			*Milligrams per liter	
			•	
	·			

Analyst: Art Carrasco - District Engineer CC:

HALLIBURTON COMPANY

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NOTICE

Respectfully submitted,

This report is limited to the described tomolo toxad. Ley over all this court occurs that thell begins that their

#### HALLIBURTON SERVICES ARTESIA DISTRICT

#### LABORATORY REPORT

r.	0. W331-9	<u> </u>	<u></u>
Date_	September	20,	1990
idinan prava idional al <i>rep</i> idional al rep	turion Services and ne NONshed or disclosed w torstory mesagement, Is operations by any per report from Hamburton	acou as ca q walk yo quart put	l tocumy tower, be

TO Mr. Harv	vey Apple		Da	te Septe	ember 20, 1990
Yates Pe	troleum Corporati	lon		al Mark and Gr	
105 Sout	h Fourth Street		thereof, nor a copy thereof the express written appro-	is a polynosi wei	tel and nother 4 not 1977 \$00° disclosed without brill tocking segonant, 4 may howard, bit
Artesia,	Artesia, NM 88210		used in the course of regular business operations by any person or cancers of employees thereof receiving such report from Hanburson Services		
Submitted by Dann	ny Panzer		Date Rec	September	r 20, 1990
Well No. State D	//1	Depth 1096	3' - 11052' Fo	rmation_	Bliss Sand
Pield		County	Sc	ource	457272
,		<del></del>	<del></del>	<del></del>	
Resistivity	0.052		<del></del>		
Specific Gravity	1.1706	<del></del>			<b></b>
pĦ	6.5				
Calcium	29,025	<del></del>	<u>.</u>		
Magnesium	392	٠,		· .	
Chlorides	157,000				
Sulfates	700				
Bicarbonates	005				
Soluble Iron	500				
KCL					
Remarks:				<del></del>	

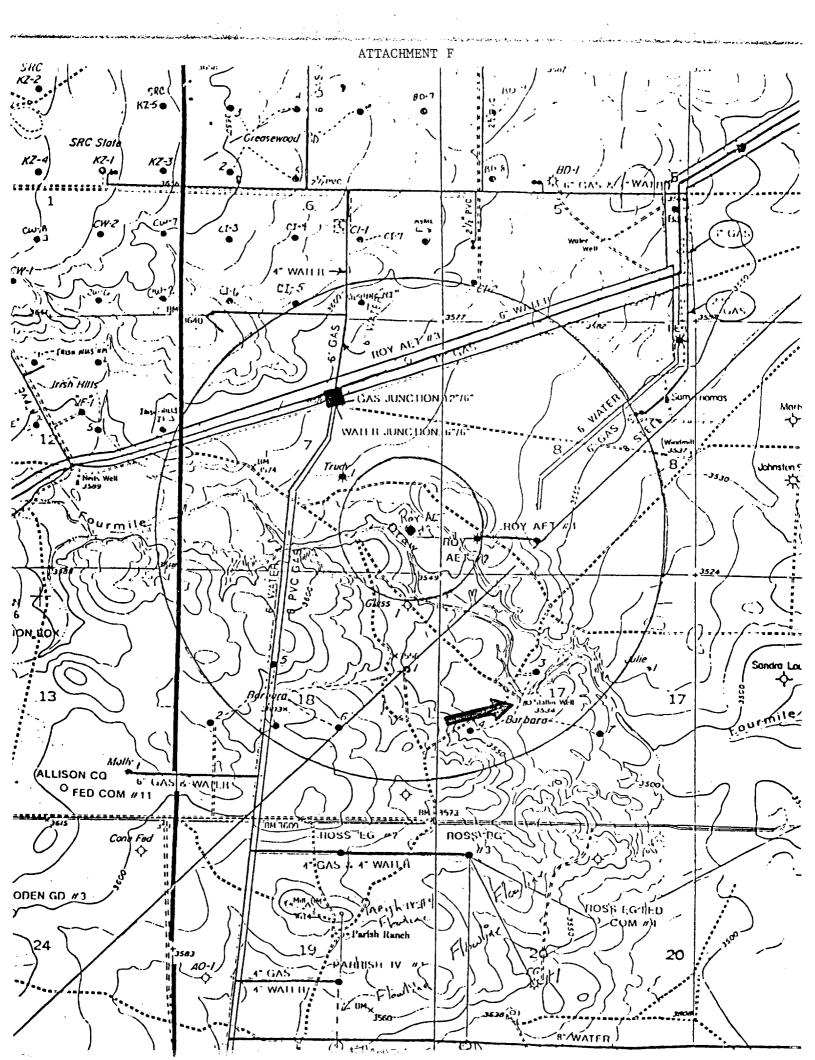
Eric Jacobson - Field Engineer

HALLIBURTON SERVICES

NOTICE:

TO

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



## WATER ANALYSIS REPORT furnished by TRETOLITE CHEMICALS

4p

COMPANY:

YATES PET.

LEASE:

LARUE WATER WELL

SAMPLE POINT:

WELL 10-9-90

SAMPLE DATE: SAMPLE TEMP.:

N/A

pH:

- - - -

H2S:

7.5 NO

SPECIFIC GRAVITY:

1.015

#### TITRATED AND CALCULATED IONS

MILLIGRAMS	•	MILLIEQUIVALENTS
PER LITER	ı	PER LITER
280.60		4.60
256.00	•	7.21
200.00		4.17
528.00		26.40
65.61		5.38
0.00		0.00
	PER LITER  280.60 256.00 200.00 528.00 65.61	PER LITER  280.60 256.00 200.00 528.00 65.61

IONIC STRENGTH = 0.04

TOTAL HARDNESS = 1590.0 mg/ltr.

TOTAL DISSOLVED SOLIDS = 1056.6 mg/ltr.

#### PROBABLE MINERAL COMPOSITION AND ION PAIRING

	MILLIEQUIVALENTS	MILLIGRAMS
	PER LITER	PER LITER
Ca (HCO3)2	4.60	372.78
CaSO4	4.17	283.63
CaC12	7.21	400.23
Mg (HCO3)2	0.00	0.00
MgSO4	0.00	0.00
MgC12	0.00	0.00
NaHCO3	0.00	0.00
Na2S04	0.00	0.00
NaCl	0.00	0.00

#### CALCULATED SCALING TENDENCIES

SCALING INDEX

CaCO3 @ 80 DEG F. = 1.2

CaCO3 @ 120 DEG F. = 1.5

SATURATION POINT

CaSO4 @ 70 DEG F. = 1775.1 MG/LTR. CaSO4 @ 110 DEG F. = 1829.4 MG/LTR.

(THIS SAMPLE CONTAINED 283.6 MG/LTR. CaSO4)

## WATER ANALYSIS REPORT furnished by TRETOLITE CHEMICALS

COMPANY: YATES PET.

LEASE: WINDMILL

SAMPLE POINT: OVERFLOW

SAMPLE DATE: 10-8-90

SAMPLE TEMP.: N/A

pH: 7.7 12S: NO

H2S: NO SPECIFIC GRAVITY: 1

#### TITRATED AND CALCULATED IONS

	MILLIGRAMS PER LITER	MILLIEQUIVALENTS PER LITER
нсоз	329.40	5,40
Cl	213.00	6.00
SO4	1375.00	28.65
Ca	600.00	30.00
Mg	133.65	10.95
Na	0.00	0.00

IONIC STRENGTH = 0.08

TOTAL HARDNESS = 2050.0 mg/ltr.

TOTAL DISSOLVED SOLIDS = 2641.4 mg/ltr.

#### PROBABLE MINERAL COMPOSITION AND ION PAIRING

MILLIEQUIVALENTS	MILLIGRAMS
PER LITER	PER LITER
5.40	437.62
24.60	1674.52
0.00	0.00
0.00	0.00
4.05	243.52
6.00	285.72
0.00	0.00
0.00	0.00
0.00	0.00
	PER LITER 5.40 24.60 0.00 0.00 4.05 6.00 0.00

#### CALCULATED SCALING TENDENCIES

SCALING INDEX

CaCO3 @ 80 DEG F. = 1.4 CaCO3 @ 120 DEG F. = 1.8

SATURATION POINT

CaSO4 @ 70 DEG F. = 2369.1 MG/LTR. CaSO4 @ 110 DEG F. = 2425.9 MG/LTR.

(THIS SAMPLE CONTAINED 1674.5 MG/LTR. CaSO4)

Attachment F Pg. 2





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

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

May 16, 1991

CERTIFIED RETURN RECEIPT

Conoco, Inc. 10 Desta Drive West Midland, TX 79705-4514

Dear Sir,

Enclosed please find a copy of form C-108 (Application for Authority to Inject) on Yates' Roy "AET" #3 located in Unit P of Section 7-19S-25E, Eddy County, New Mexico.

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

Sincerely,

Paul Ragsdale

Petroleum Engineer

PR/th

Enclosure



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

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SECRETARY
DENNIS G. KINSEY
TREASURER

May 16, 1991

CERTIFIED RETURN RECEIPT

Mr. Howard Howell P. O. Box 75 Lakewood, NM 88254

Dear Mr. Howell,

Enclosed please find a copy of form C-108 (Application for Authority to Inject) on Yates' Roy "AET" #3 located in Unit P of Section 7-19S-25E, Eddy County, New Mexico.

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

Sincerely,

Paul Ragsdale

Petroleum Engineer

PR/th

Enclosure



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

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May 16, 1991

CERTIFIED RETURN RECEIPT

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

Dear Sir,

Enclosed please find our application for authorization to inject for the Roy "AET" #3 located in Section 7-19S-25E of Eddy County.

If you have any questions, you may contact me at (505) 748-1471 Ext. 187. Thank you.

Sincerely,

Paul Ragsdale

Petroleum Engineer

PR/th

Enclosures



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

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RANDY G. PATTERSON
SECRETARY
DENNIS G. KINSEY
TREADUREN

May 14, 1991

Artesia Daily Press 503 W. Main Artesia, New Mexico 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 Sunday, May 19, 1991 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: Paul Ragsdale

If you have any questions, please contact me at 748-1471, Ext. 187. Thank you for your cooperation in this matter.

Sincerely,

Paul Ragsda*l*e Petroleum Engineer

PR/th

Enclosure

#### Attachment H

#### 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 "Roy AET #3" located 810' FSL & 660' FEL of Section 7, Township 19 South, Range 25 East of Eddy County, New Mexico, will be used for saltwater disposal. Disposal waters from the Dagger Draw Upper Pennsylvanian will be re-injected into the Devonian and Ellenberger formations at a depth of 9750-11,150 feet with a maximum pressure of 2200 psi and a maximum rate of 10,000 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 Paul Ragsdale at (505) 748-1471.

### Affidavit of Publication

**No.** 13537 STATE OF NEW MEXICO, County of Eddy: Gary D. Scott \_\_\_\_\_being duly sworn, says: That he is the Publisher Artesia Daily Press, a daily newspaper of general circulation, published in English at Artesia, said county and state, and that the hereto attached <u>legal Notice</u> 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 1 \_ consecutive weeks on the same day as follows: First Publication May 19, 1991 Second Publication\_\_\_\_\_ Third Publication\_\_\_ Fourth Publication\_ 20th Subscribed and sworn to before me this\_\_\_\_ day Notary Public, Eddy County, New Mexico

My Commission expires September 23, 1991

#### Copy of Publication

LOCHEER OF DIVISION

'91 MW 26 97 11 36

#### 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 "Roy AET #3" Ideated 810' FSL & 660' FBL of Section 7, Township 19 South, Range 25 East of Eddy Confey, New Mexico, will be the for saltwater disposit. The posal waters from the Conservation of the Conserv

Devonian and Ellenberger formations at a depth of 9750-11,150 feet with a maximum pressure of 2200 psi and a maximum rate of 10,000 BWPD.

All interested parties of the aforestantional missions in societies to respect the continuous of the c