

105 SOUTH FOURTH STREET ARTESIA, NEW MEXICO 88210

TELEPHONE (505) 748-1471

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DENNIS G. KINSEY

TREASURER

August 17, 1989

Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87501

Attention: Mr. William J. LeMay

AUG 1 8 1989
OIL CONSERVATION DIV.

Re: Application for Authorization to Inject

Donahue Federal #1

Township 20 South, Range 24 East, NMPM

Section 10: SWANWA
Eddy County, New Mexico

Dear Mr. LeMay:

I have enclosed two copies of Form C-108 on the captioned well for the purpose of re-entering the well to dispose of Dagger Draw - Upper Pennsylvanian produced water into the Abo formation. We have applied for the permit to re-enter the well with the Bureau of Land Management.

If you have any questions, please call myself or Mrs. Theresa Padilla.

Thank you.

Very truly yours,

YATES PETROLEUM CORPORATION

Ken Beardemphl

Landman

KB/bp Enclosures

CC: Oil Conservation Division - Artesia
Bureau of Land Management - Carlsbad

of the earlier submittal.

OIL CONSERVATION DIVISION

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING BANTA FE. NEW MEXICO 87501

PPLICA	ATION FOR AUTHORIZATION TO INJECT
ı.	Purpose: Secondary Recovery Pressure Maintenance X Disposal Storage Application qualifies for administrative approval? X yesno
II.	Operator: Yates Petroleum Corporation
	Address: 105 S. 4th Street Artesia, NM 88210
	Contact party: Theresa Padilla Phone: (505) 748-1471
111.	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 ino 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:
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and 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.).
111.	Attach appropriate geological data on the injection zone including appropriate lithological, 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.
111.	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: Theresa Padilla Title Petroleum Engineer
	Signature: Theresa fadilla Date: 8/11/89

* 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

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:
 - 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 DONAHUE FEDERAL #1 E 10-20S-24E 1980' FNL & 660' FNL

1980' FNL & 660' FWL EDDY COUNTY, NEW MEXICO

- I. The purpose of re-entering this well is to dispose of Dagger Draw-Upper Pennsylvanian produced waters into the Abo formation.
- II. Operator: Yates Petroleum Corporation 105 South Fourth Street Artesia, New Mexico 88210 Theresa Padilla (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. There are no wells within the one-half mile radius of the Donahue Federal #1. The closest well which has penetrated the Abo formation is the Bate Federal #1 in 3-20S-24E, approximately 1 mile NE of the proposed SWD. Yates Petroleum has received permission to complete the Bate Federal #1 for salt water disposal into the Abo formation by Order No. SWD-371.
- 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.
 - Proposed average injection pressure unknown.

Proposed maximum injection pressure-- 840 psi.

- 4. Sources of injected water would be produced water from the Dagger Draw--Upper Penn.
 (See Attachment C)
- 5. A chemical analysis is not available in the Abo on this well. However, a chemical analysis of the Abo formation should be similar to the following case:

Order SWD-332

11-19-87

Yates Petroleum Corporation Disposal Well-Abo Lucas Stone KT State #1

22-175-28E

Eddy County

(See Attachment D-Chemical Analysis)

C-108 Application for Authorization to Inject Yates Petroleum Corporation Donahue Federal #1 Page 2

- VIII. 1. The proposed injection interval is the portion of the Abo Reef consisting of porous dolomite. We will selectively perforate from approximately 4200' to 4664'. (These intervals will be determined when the well is logged).
 - 2. Fresh water zones overlie the Abo formation at depths to approximately 750'.
 - IX. The proposed disposal interval will be acidized with 10,000 gallons of 15% HCL acid.
 - X. Logs were filed at the Oil Commission when the Donahue well was drilled by Standard Oil Company of Texas to a total depth of 4500'.

Logs will be furnished when the re-entry is completed.

XI. We could not locate any windmills within a mile of the Donahue Federal #1. The closest windmill is approximately 1.1 miles N-NE of the subject location in the SE/4 NW/4 of Section 3-T2OS-R24E. The depth is not recorded.

The location of this well is indicated on Attachment E. A water analysis is also attached, with the sample collected June 1, 1989.

- XII. Yates Petroleum Corporation has examined available geologic and engineering data and has found that there is no evidence of faulting in the proposed interval.
- XIII. Proof of Notice
 - A. Copies of certified letters sent to the surface owner and offset operators.

 (Attachment F)
 - B. Copy of legal advertisement. (Attachment G)
 - XIV. Certification is signed.

YATES PETROLEUM CORPORATION DONAHUE FEDERAL #1 E 10-20S-24E

ATTACHMENT A Page 1

III. Well Data

- A. 1. Lease Name/Location:
 Donahue Federal #1
 E 10-208-24 E
 1980' FNL & 660' FWL
 - Casing Strings:
 8-5/8" 24# J-55 set at 840' with 650 sxcirculated.

Present TD: 4500'. Propose to deepen to approximately 4664' and run 5-1/2" 14# K-55 casing, cementing back to the surface.

- 3. Tubing:
 Propose to use 3-1/2" 9.3# J-55 Plasticcoated tubing set at approximately 4150'.
- 4. Packer:
 Propose to use Guiberson Uni VI or Baker
 Plastic-coated or Nickel-Plated Packer set
 at 4150'.
- B. 1. Injection Formation: Abo Undesignated
 - Injection interval will be through selective perforations from approximately 4200' to 4664' (These intervals will be determined when the well is logged).
 - 3. Well was originally drilled as a wildcat Abowell.
 - 4. Perforations: none
 - 5. Next higher (shallower) oil or gas zone-none. Next lower (deeper) oil or gas zone is the Canyon at approximately 7490'.

STANDARD OIL CO. OF TEXAS
DONAHUE FEDERAL #1

SEC. 10 - 20S - 24E

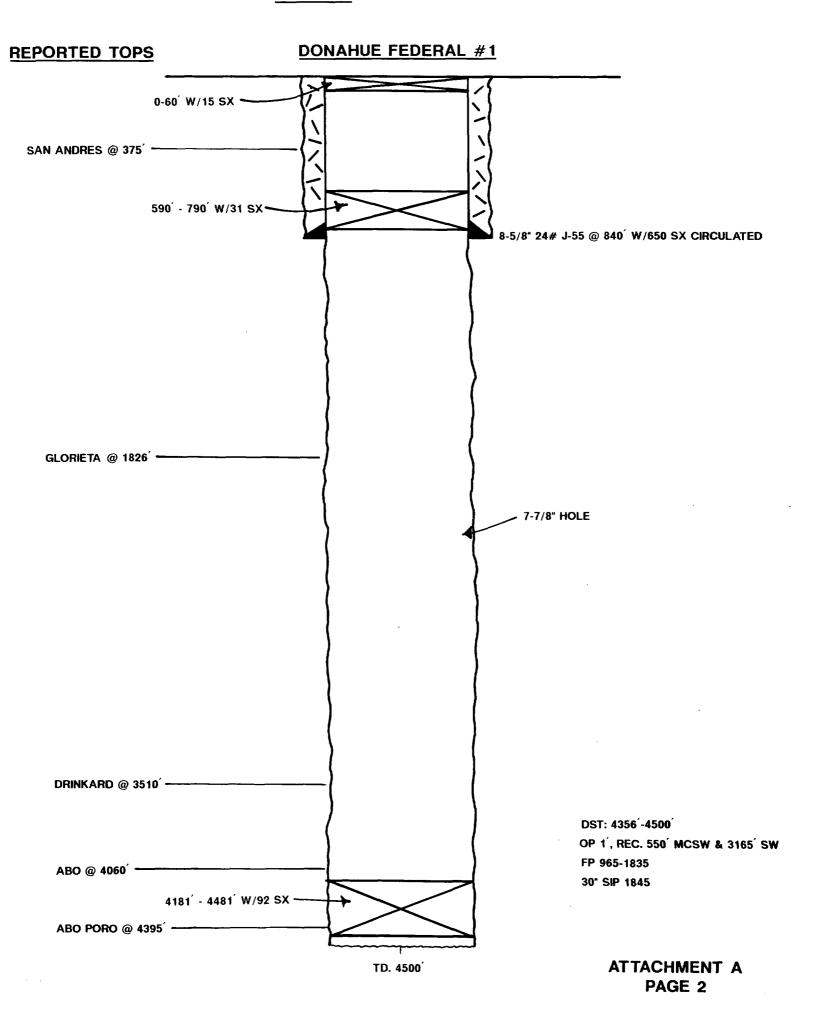
UNIT E

1980' FNL & 660' FWL

SPUD: 8-29-56

P & A: 10-2-56

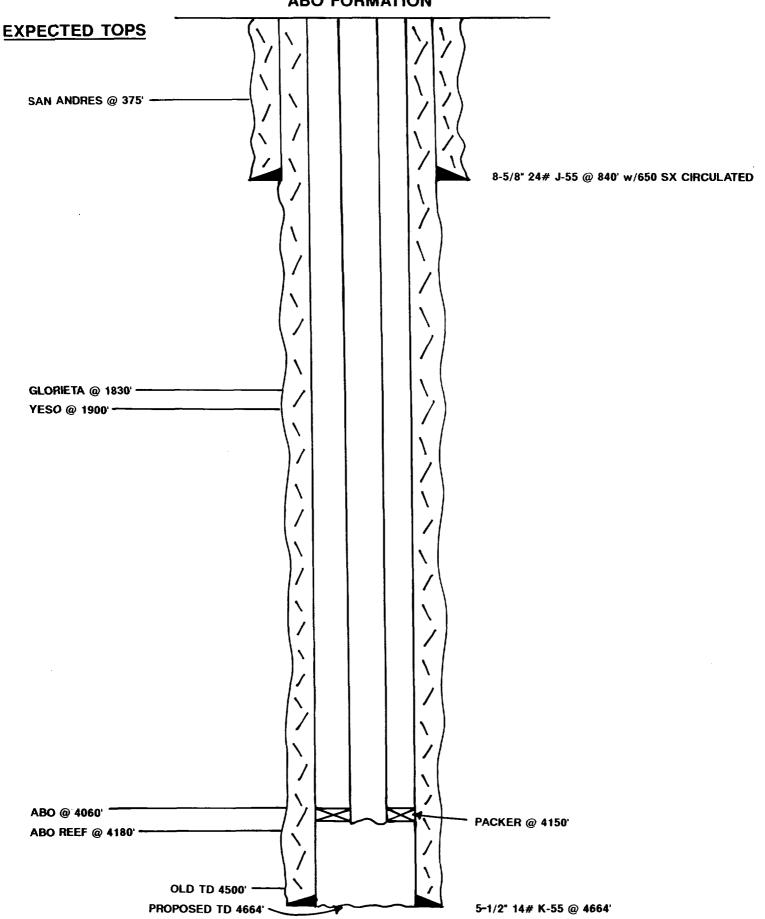
DIAGRAMATIC SKETCH OF PRESENT WELL CONDITION



DONAHUE FEDERAL #1 SEC. 10-20S-24E UNIT E 1980' FNL & 660' FWL EDDY COUNTY, NM

YATES PETROLEUM CORP. DIAGRAMATIC SKETCH PROPOSED SALT WATER DISPOSAL WELL

ABO FORMATION



Propose to open 7-7/8" hole from surface to old TD of 4500' and drill approximately 164' of new hole. Plan to run approximately 4664' of 5-1/2" 14# K-55 casing, circulating cement back to surface. Will complete for Salt Water Disposal with 3-1/2" 9.3# J-55 plastic-coated tubing and Guiberson VI or Baker plastic-coated or nickel-plated packer set @ approximately 4150', with an inert fluid with inhibitors in the annulus.

ATTACHMENT A
PAGE 3

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YATES PETROLEUM CORPORATION

DONAHUE FEDERAL #1

PROPOSED SALT WATER DISPOSAL WELL

SEC. 10-T20S-R24E

1980' FNL & 660' FWL

EDDY COUNTY, NEW MEXICO

HALLIDURTON DIVISION LABORATORY

HALLIBURTON SERVICES

ARTESIA, NEW MEXICO 88210

LABORATORY WATER ANALYSIS

No. W65, W66, & W67-88

To . Yates Petro	leum Corporation	Date_	
105 South F	ourth Street		rty of Halliburton Company and neith nor a capy thereof is to be publish
Artesia, NM	88210	of laboratory managem course of regular busine	it securing the express written appro- nent; it may however, be used in its operations by any person or conc- receiving such report from Hallibur
Submitted by			
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		Source	•
·	Ross EG Fed. #2	Foster AN Com. #1	
Resistivity	.91 @ 60°	.9 @ 60°	.89 @ 60°
	1.005 @ 60°	1.005 @ 60°	1.005 @ 60°
рН		7.3	7.0
Calcium (Ca;	1,000	1,000	1',000 *M
Magnesium (Mg)	600	500	650
Chlorides (CI)	4,000	5,000	5,000
Sulfates (SO ₄)	lleavy	Heavy	lleavy
Bicarbonates (HCO ₃)	1,200	1,000	1,100
Soluble Iron (Fe)	Nil	Nil	Nil
•••••			
Remarks:			*Milligrams per liter
			•
	Respecti	ully submitted,	
Anolyst Art Carrase	co - District Engine	er HALLIBURTO	N COMPANY

NOTICE

ATTACHMENT D (Page 1) HALLIBURTON DIVISION LABORATION

HALLIBURTON SERVICES MIDLAND DIVISION



HOURS, NEW MEXICO 88240	· .	
LABORATORY WATER ANALYSIS	No. 179-117	

To Yates Tetroleum Co	rroration	Date	5-2-79
207 S. Ath Street		It nor any part thereof or disclosed without firs	rty of Halliburton Company and nell nor a copy thereof is to be publish t securing the express written appro- ent; it may however, be used in
Artesia, New Mexic)	course of regular busine	ss operations by any person or concrecelving such report from Hallibur
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ATTACHMENT D (Page 2) HALLIBURTON DIVISION LABORATOR

HALLIBURTON SERVICES MIDLAND DIVISION HOUBS, NEW MEXICO 88240

LABORATORY WATER ANALYSIS

25)	
	No

No. 179-421

To Yaten Fetroleum Co	orroration	Date	5-2-79	- 16 1
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			receiving such report from Hallib	
Submitted by		Date Rec.	5-2-79	
	st. 21 Depth :213			· ·
1141 ** *	Field W.C		DST #2	
	Saurler	Tor of Fluid	Fluid Change	
Resistivity	0.180 @ 7%° F.	0.218 3 74° F.	0.218 @ 74°F.	
Specific Gravity				
pH	7.3			
Calcium (Ca)			*	MPL
Magnesium (Mg)				
Chlorides (Cl)		14,500	14,500	• ;
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	Respectfu	illy submitted,		
Analyst: <u>Prowor</u> cc:			N COMPANY	
		By	MIST the	

ATTACHMENT E (Page 1)

HALLIBURTON DIVISION LABORATORY

HALLIBURTON SERVICES

ARTESIA DISTRICT

LABORATORY REPORT

No	W229-89	
_		
te		_

Yates Petrolo	eum Corporation			Jace
105 South For	arth Street 88210		thereof, nor a copy there the express written appr used in the course of regi	ny of Halliburton Services and neither 4 nor any part of: is to be published or disclosed without first securing royal of laboratory management, if may however, be uter business operations by any person or concern and ying such report from Halliburton Services
Submitted by Padil	l a		Date Rec	
Well No. Windmill n	ear Bates Fed.	Depth		Formation
Field Sec. 3, T 20	S, R 24E	_County		Source
Resistivity	1.77 @ 65°			
Specific Gravity				
рН	6.8			
Calcium		<u> </u>	-	
Magnesium	300			
Chlorides	1,000			
Sulfates	Less than 200			
Bicarbonates	150		· · · · · · · · · · · · · · · · · · ·	
Soluble Iron	Ni1			
	······································			
			·	
Remarks:				
	11/1	7		
	Respec	tfully submi	tted	

Analyst: Art Carrasco - District Engineer

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 F



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

August 11, 1989

CERTIFIED RETURN RECEIPT

Conoco P. D. Box 460 Hobbs, NM 88240

Dear Sirs:

Enclosed please find a copy of form C-108 (Application for Authority to Inject) on Yates' Donahue Federal #1 located in Unit E of Section 10-T20S-R24E.

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

Sincerely,

Theresa Padilla

Petroleum Engineer

Theresa Padilla

TP/mw



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

August 11, 1989

CERTIFIED RETURN RECEIPT

Enron Oil & Gas Company P. O. Box 2267 Midland, TX 79702

Dear Sirs:

Enclosed please find a copy of form C-108 (Application for Authority to Inject) on Yates' Donahue Federal #1 located in Unit E of Section 10-T20S-R24E.

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

Sincerely,

Theresa Padilla Petroleum Engineer

TF/mw



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PEYTON YATES
EXECUTIVE VICE PRESIDENT
RANDY G. PATTERSON
SECRETARY
DENNIS G. KINSEY
TREASURER

August 11, 1989

CERTIFIED RETURN RECEIFT

Ralph Nix, Jr. P. O. Box 440 Artesia, NM 88210

Dear Sirs:

Enclosed please find a copy of form C-108 (Application for Authority to Inject) on Yates' Donahue Federal #1 located in Unit E of Section 10-T20S-R24E.

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

Sincerely,

Theresa Fadilla
Theresa Fadilla

Petroleum Engineer

TP/mw



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

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EXECUTIVE VICE PRESIDENT
RANDY G. PATTERSON
SECRETARY
DENNIS G. KINSEY
TREASURER

August 11, 1989

CERTIFIED RETURN RECEIFT

Santa Fe Energy Company 500 West Illinois, Suite 500 Midland, TX 79701

Dear Sirs:

Enclosed please find a copy of form C-108 (Application for Authority to Inject) on Yates' Donahue Federal #1 located in Unit E of Section 10-T20S-R24E.

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

Sincerely,

Theresa Fadilla Petroleum Engineer

Theresa Padilla

TP/mw



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

August 11, 1989

Ms. Lillie M. Yates 207 S. 4th Street Artesia, NM 88210

Dear Mrs. Yates:

Enclosed please find a copy of form C-108 (Application for Authority to Inject) on Yates' Donahue Federal #1 located in Unit E of Section 10-T20S-R24E.

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

Sincerely,

Theresa Padilla Petroleum Engineer

TP/mw

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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

August 11, 1989

Martin Yates III Estate 207 S. 4th Street Artesia, NM 88210

Dear Sirs:

Enclosed please find a copy of form C-108 (Application for Authority to Inject) on Yates' Donahue Federal #1 located in Unit E of Section 10-T20S-R24E.

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

Sincerely,

Theresa Padilla Petroleum Engineer

Theresa fadilla

TF/mw

ATTACHMENT G

LEGAL NOTICE

Yates Fetroleum Corporation, 105 South Fourth Street, Artesia, NM 88210, has filed form C-108 (Application for Authorization to Inject) with the New Mexico Oil Commission seeking administrative approval for an injection well. The proposed well, the "Donahue Federal #1", is located 1980' FNL & 660' FWL of Section 10, Township 20 South, Range 24 East, Eddy County, New Mexico, and will be used for saltwater disposal into the Abo formation at selective perforations in the interval from approximately 4200 feet to 4664 feet with a maximum pressure of 840 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, F.O. Box 2088, Santa Fe, NM 87501, within 15 days. Additional information can be obtained by contacting Theresa Padilla at (505) 748-1471.

Published in the Artesia Daily Press, Artesia, NM, August 13, 1989.

Affidavit of Publication

No12883
TATE OF NEW MEXICO, County of Eddy:
Gary D. Scott being duly
worn, says: That he is thePublisherof The
artesia Daily Press, a daily newspaper of general circulation,
ublished in English at Artesia, said county and state, and that
he hereto attachedLegal Notice
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vas published in a regular and entire issue of the said Artesia
Daily Press, a daily newspaper duly qualified for that purpose
vithin the meaning of Chapter 167 of the 1937 Session Laws of
days he State of New Mexico for1 consecutive weeks on he same day as follows:
he State of New Mexico for1 consecutive weeks on
he State of New Mexico for1 consecutive weeks on he same day as follows:
he State of New Mexico for

My Commission expires September 23, 1991

Copy of Publication

the New Mexico Oil Commission seeking administrative ap proval for an injection well. The proposed well the "Donahue Federal #1", 1876 cated 1980 FNL 20060 FWI of Section 10, Township 20 South, Range 24 East Eddy County, New Mexico and will be used for saltwater disposal into the Abo formation at se lective perforations in the inter val from approximately 4200 feet to 4664 feet with a meximum pressure of 840 psi and a maximum rate; of 10,000 BWPD.

All interested parties opposing the aforementioned sinustifile.

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hearing with the Oil Conservation Division P.O. Box, 2088,
Santa Fe, NM 87501, within
15 days, Additional information can be obtained by contacttion can be obtained by contacting Theresa Padilla att (505)
748-1471,
Published in the Artesia Daily
tesia, NM 88210, has filed
form C-108 (Application for
Authorization to Inject) with
Legal 1288