

APPLICATION FOR AUTHORIZATION TO INJECT

OIL CONSERVATION DIVISION  
RECEIVED  
SEP 29 1990  
SEP 19 1990

- 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 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 ☒ 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: Paul Ragsdale

Title: Petroleum Engineer

Signature: Paul Ragsdale

Date: September 24, 1990

- \* 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.

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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  
South Dallas #2  
B 2-10S-26E  
Chaves County, New Mexico

- I. The purpose of recompleting this well is to make a disposal well for Foor Ranch-Ordovician waters (re-injected produced waters) into the Ordovician formation.

Yates Petroleum plans to convert this well to a disposal well in the Ordovician formation.

- 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. No wells within the area of review penetrate the proposed Ordovician injection zone. The nearest Ordovician well is the Energy AFY State #2 located about 1 mile Northeast of the South Dallas in Unit K of Section 36, Township 9 South, Range 26 East.

- VII. 1. Proposed average daily injection volume approxi-  
1000 BWPd.  
Maximum daily injection volume approximately 2000  
BWPd.
2. This will be a closed system.
3. Proposed average injection pressure-unknown.  
Proposed maximum injection pressure--1211 psi.
4. The Foor Ranch-Ordovician waters are re-injected  
produced waters.
5. See Attachment C.
- VIII. 1. The proposed injection interval is the portion of  
the Ordovician formation consisting of porous  
dolomite from 6058-6092'.

South Dallas #2

-2-

2. Fresh water zones overlies the Ordovician formation at depths to approximately 300 feet. There are no fresh water zones underlying the formation.
- IX. The proposed disposal interval will be acidized with 10,000 gallons of 15% HCL acid.
- X. Logs were filed at your office when the South Dallas well was drilled and completed in March, 1990.
- XI. No windmills exist within the 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  
South Dallas #2  
B 2-10S-26E

Attachment A  
Page 1

III. Well Data

- A. 1. Lease Name/Location:  
South Dallas #2  
B 2-10S-26E  
660' FNL & 1400' FEL
2. Casing Strings:  
a. Present Well Condition  
8-5/8" 24# & 32# j-55 @ 1156' with 580  
sacks .  
5-1/2" @ 6200' w/450 sacks  
2-3/8" tubing @ 5964'
- Present TD: 6200', PBSD  
SI - Ordovician perforations 6058-6092'
3. Tubing:  
Propose to replace present tubing with 2-7/8"  
6.5# J-55 plastic-coated tubing set at 5964'.
4. Packer:  
Propose to use Guiberson Uni VI or Baker  
plastic-coated or nickel-plated packer set at  
5964.
- B. 1. Injection Formation: Foor Ranch - Ordovician
2. Injection Interval will be through perfora-  
tions from approximately 6058-6092'.
3. Well was originally drilled as an exploratory  
gas well.
4. Perforations: 6058-6092'
5. Next higher (shallower) oil or gas zone within  
1/2 mile--NONE: within 2 miles--San Andres.  
Next lower (deeper) oil or gas zone within 1/2  
mile--NONE: within 2 miles--none.

# YATES PETROLEUM

SOUTH DALLAS #2

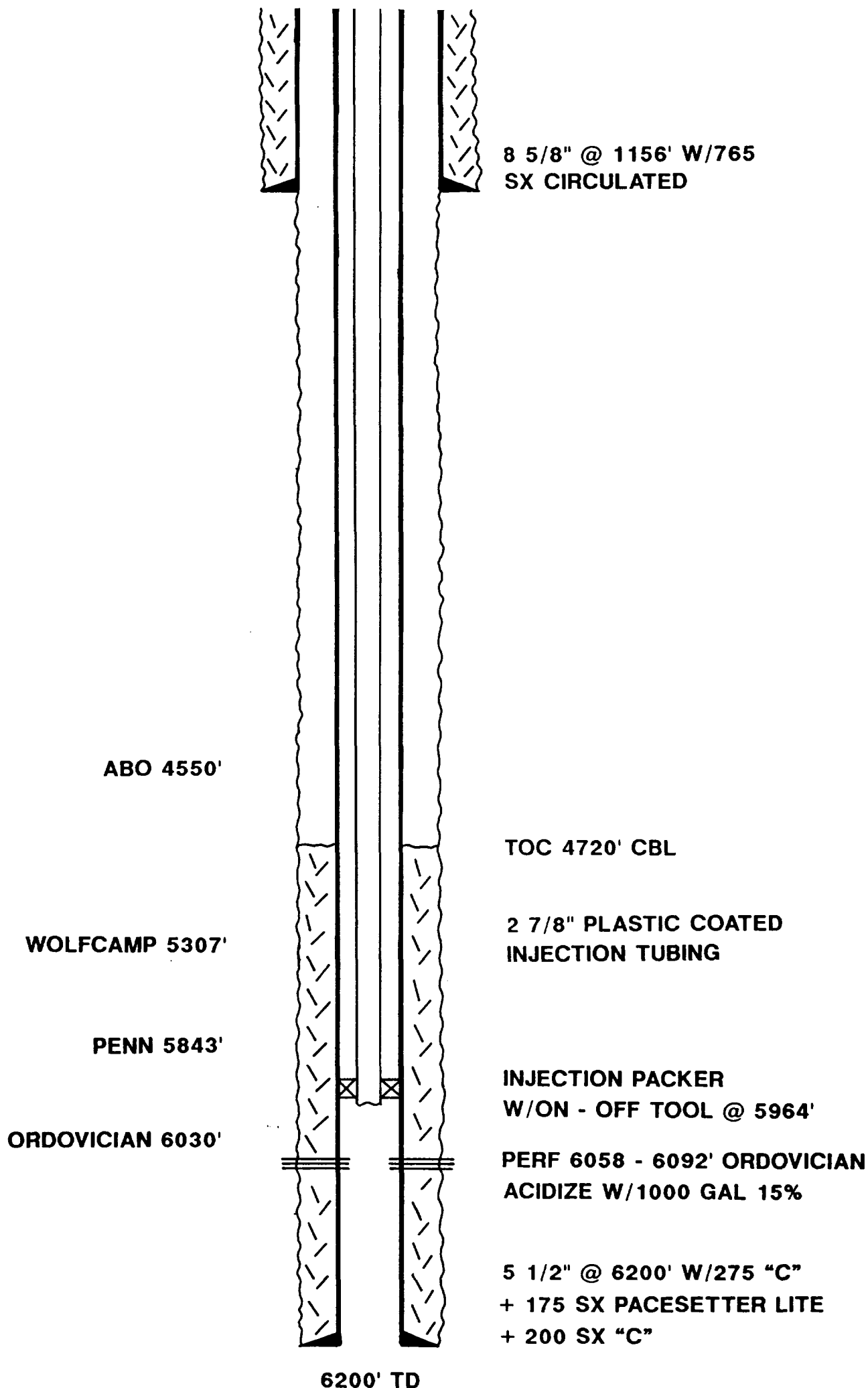
B 2 - 10S - 26E

660' FNL & 1400' FEL

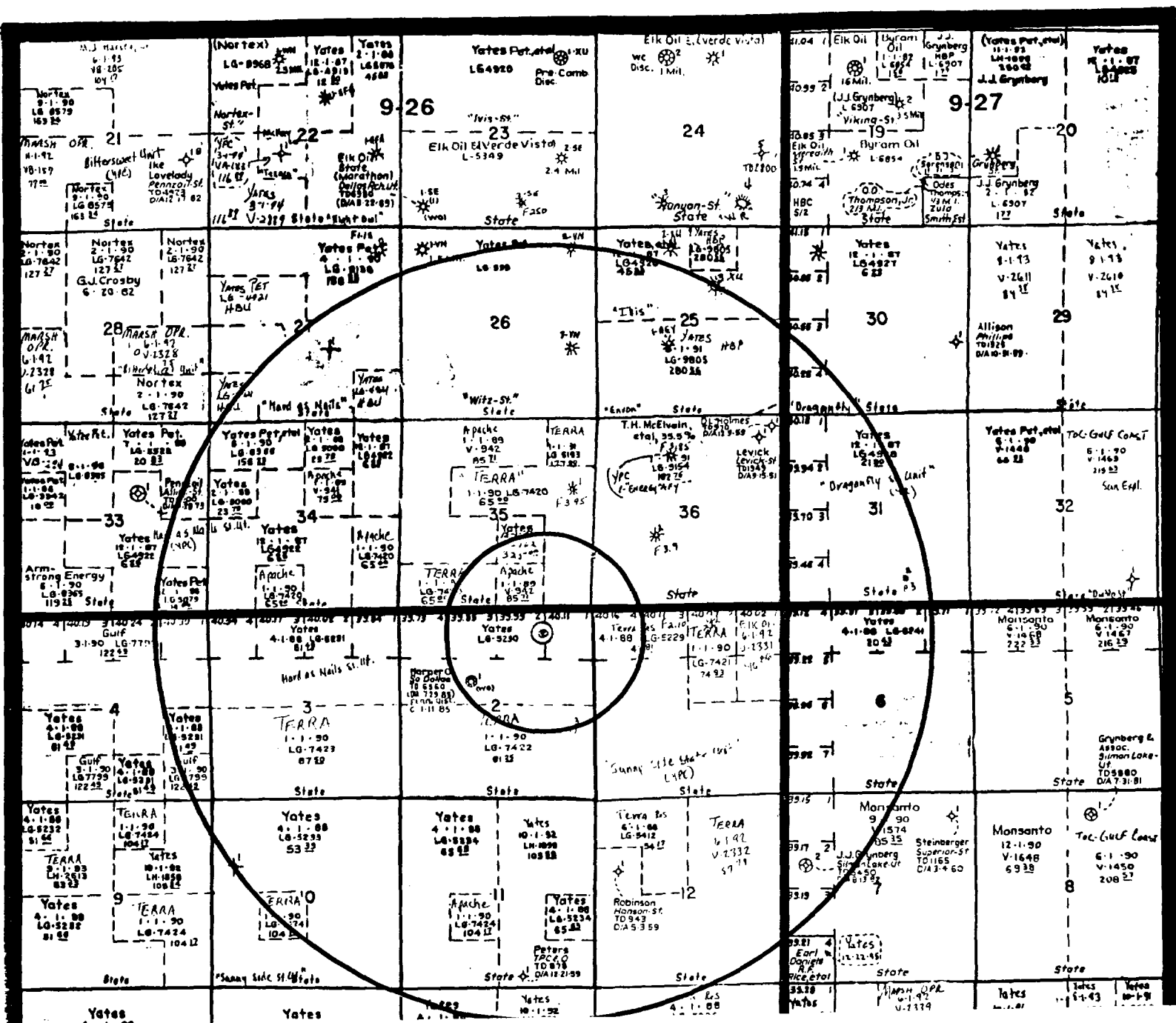
FOOR RANCH ORDOVICIAN

COMPLETION DATE : 3 - 6 - 90

## AFTER CONVERSION



SKETCH NOT TO SCALE



## HALLIBURTON DIVISION LABORATORY

## HALLIBURTON SERVICES

## ARTESIA DISTRICT

## LABORATORY REPORT

No. W240-90TO Mr. Pinson McWhorterDate May 4, 1990Yates 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.

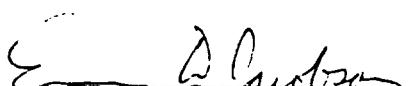
Submitted by \_\_\_\_\_ Date Rec. May 4, 1990Well No. Pathfinder AFT #3 Depth \_\_\_\_\_ Formation \_\_\_\_\_Field \_\_\_\_\_ County \_\_\_\_\_ Source CasingResistivity ..... 0.054 @ 70°Specific Gravity .. 1.1582 @ 70°pH ..... 6.8Calcium ..... 3,904Magnesium ..... 2,368Chlorides ..... 144,000Sulfates ..... HeavyBicarbonates ..... 610Soluble Iron ..... 75

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Remarks:

  
 Respectfully submitted
Analyst: 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 direct, indirect, or consequential damages, arising 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

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

September 24, 1990

CERTIFIED RETURN RECEIPT

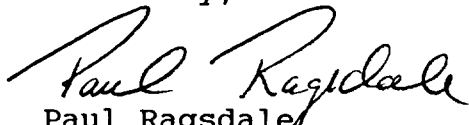
Pacific Enterprises Oil Company  
P. O. Box 3083  
Midland, TX 79702

Dear Sir:

Enclosed please find a copy of form C-108 (Application for Authority to Inject) on Yates' South Dallas #2 located in Unit B of Section 2-T10S-R26E.

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

Sincerely,

  
Paul Ragsdale  
Petroleum Engineer

PR/sj

Enclosure

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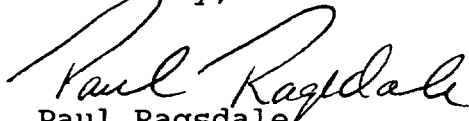
Elk Oil Company  
P. O. Box 310  
Roswell, NM 88201

Dear Sir:

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

Sincerely,

  
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TREASURER

September 24, 1990

CERTIFIED RETURN RECEIPT

Commissioner of Public Lands  
P. O. Box 1148  
Santa Fe, NM 87504-1148

Dear Sir:

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Sincerely,

  
Paul Ragsdale  
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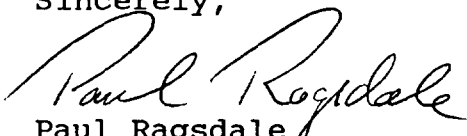
BHP Petroleum Company, Inc.  
6 Desta Drive #3200  
Midland, TX 79705-5505

Dear Sir:

Enclosed please find a copy of form C-108 (Application for Authority to Inject) on Yates' South Dallas #2 located in Unit B of Section 2-T10S-R26E.

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

Sincerely,

  
Paul Ragsdale  
Petroleum Engineer

PR/sj

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 "South Dallas #2" located 660' FNL & 1400' FEL of Section 2, Township 10 South, Range 26 East of Chaves County, New Mexico, will be used for saltwater disposal only. Disposal waters from the Foor Ranch-Ordovician will be re-injected into the Ordovician formation at a depth of 6058-6092 feet with a maximum pressure of 1211 psi and a maximum rate of 2,000 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

County of Chaves

State of New Mexico,

I, Jean M. Pettit  
Manager,

Of the Roswell Daily Record, a daily newspaper published at Roswell, New Mexico, do solemnly swear that the clipping hereto attached 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 time

weeks

beginning with the issue dated 24th

September, 1990

and ending with the issue dated 24th

September 1990

Jean M. Pettit  
Manager

Sworn and subscribed to before me

this 24th day of

September, 1990

Marilyn D. Shipper  
Notary Public

My commission expires

July 21, 1994  
(Seal)

ATTENTION HUNTERS:  
398-278 even  
with soft top for shape.  
Corporation, 105  
Street, Artesia, NM  
88210  
88210  
Application for Authorization to  
(Inject) with the New Mexico Oil  
Conservation Division seeking  
administrative approval for an  
injection well. The proposed well,  
the "South Dallas #2" located 660'  
FNL & 1400' FEL of Section 2,  
Township 10 South, Range 26  
East of Chaves County, New Mex-  
ico, will be used for saltwater dis-  
posal only. Disposal waters from  
the Foor Ranch-Ordovician will be  
re-injected into the Ordovician for-  
mation at a depth of 6058-6092  
feet with a maximum pressure of  
1211 psi and a maximum rate of  
2,000 BWP.

All interested parties opposing the  
aforementioned must file objec-  
tions 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.

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TELEPHONE (505) 748-1471

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SECRETARY  
DENNIS G. KINSEY  
TREASURER

September 20, 1990

Roswell Daily Record  
2301 N. Main  
Roswell, NM 88201

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 Monday, September 24, 1990 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 Ragsdale  
Petroleum Engineer

PR/sj

Enclosure



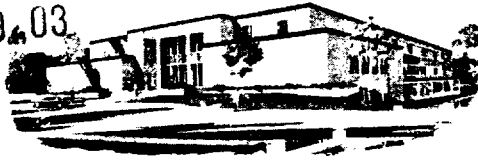


W.R. HUMPHRIES  
COMMISSIONER

Oil Division  
FD

State of New Mexico

80 OCT 4 AM 9:03



Commissioner of Public Lands

P.O. BOX 1148  
SANTA FE, NEW MEXICO 87504-1148

October 1, 1990

SWD - 406

Mr. David Catanach  
Energy, Minerals & Natural Resources Dept.  
Oil Conservation Division  
State Land Office  
P. O. Box 2088  
Santa Fe, New Mexico 87504

Re: Application for a Salt Water Easement


Dear Mr. Catanach:

Application is being made to Oil Conservation Division from Yates Petroleum Corporation for approval of a Salt Water Disposal in Section 2, Township 10 South, Range 26 East, within NW $\frac{1}{4}$ NE $\frac{1}{4}$ , Chaves County.

The Commissioner of Public Lands has no objections at this time for your approval of the above application. However, the Commissioner reserves the right to refuse to grant a salt water easement when it would be detrimental to the Trust. As you know, the applicant has a right under his valid oil and gas lease to dispose of the salt water subject to your approval. However, if he is going to inject salt water from other wells outside of the lease premises he will have to apply for a salt water disposal easement from use.

If you have any questions, call us at 827-5724.

Sincerely,

  
Leo R. Maes  
Commercial Resources

LRM/d1