

PKRV0315428651

SWD 6/11/03

gjk

ARC

## Shackelford Oil Company

P. O. Box 10665  
Midland, Texas 79702

Phone (915) 682-9784  
Fax (915) 684-5026

May 19, 2003

RECEIVED

MAY 27 2003

OIL CONSERVATION  
DIVISION

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, N.M. 87505

Certified Mail # 70000520002038978069

Attn: David R. Catanach

Re: Application for Saltwater Disposal  
ROG Federal #1  
Yates


(30-015-30351)

Dear Mr. Catanach:

Enclosed is Shackelford Oil Company's Application For Authorization to Inject (Form C-108) and required supporting data, for salt water disposal in the referred well bore. I trust this will fulfill the data needed for the administrative approval of Shackelford Oil Company's application.

Should you need additional data or have any questions, please contact me.

Sincerely yours,

  
Don G. Shackelford

DGS/llh

**APPLICATION FOR AUTHORIZATION TO INJECT**

- I. PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage  
Application qualifies for administrative approval? Yes No
- II. OPERATOR: SHACKELFORD OIL COMPANY  
ADDRESS: P O BOX 10665 MIDLAND, TX 79702  
CONTACT PARTY: DON G. SHACKELFORD PHONE: (432) 682-9784
- 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 X 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. ATTACHED
- 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. ATTACHED
- VII. Attach data on the proposed operation, including: ATTACHED
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 geologic data on the injection zone including appropriate lithologic detail, geologic 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 sources known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any. NONE
- \*X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).  
LOGS PREVIOUSLY FILED
- \*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. ONE WITHIN ONE MILE.
- 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 sources 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: DON G. SHACKELFORD TITLE: OWNER  
SIGNATURE: Don G. Shackelford DATE: May 20, 2003
- \* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: \_\_\_\_\_

Side 2

### 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 the 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, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

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

# Shackelford Oil Company

## III.

- A.
  - 1. Lease Name : ROG Federal #1  
Lease No. : NM 0556290  
API No. : 30-015-30351  
Location : 660' FSL and 810' FEL  
Sec. 9 T20S R29E  
Eddy County, N.M.
  - 2. CASING DATA  
8 5/8" 24# 349' Hole Size - 12 1/4", 530 sx Class C (circulated)  
5 1/2" 14# 1350' Hole Size - 7 7/8", 220 sx 50/50 POZ  
(270' from surface)
  - 3. TUBING DATA:  
2 3/8" plastic coated at 1100'.
  - 4. PACKER:  
5 1/2" Tension Packer.
- B.
  - 1. Injection Formation - Yates and Seven Rivers
  - 2. Perforated Interval - 1162' - 1174'.
  - 3. Original purpose of well: To test Yates and Seven Rivers formation for production of oil and gas in commercial quantities.
  - 4. Plugged back Perfs
  - 5. Next high productive zone: Rustler Zone.  
Next lower productive zone: Seven Rivers

05/20/2003 07:40

5053352586

SHACKELFORD

PAGE 01

ID 11,000  
IN 20-00...Cobb  
1-Fed  
TD 1198  
8-8-73TD 12,000  
6-16-85

ID 1391

1-Hono Fed  
TD 156003615  
TD 1865

TD 5

03829  
Pat  
1-A Rebel  
TD 1515  
7-19-5703628  
Gerty  
1-Malone  
TD 140123975  
Pat  
3-Superior  
TD 11,870

22385

Cobb  
1-Fed  
TD 1300  
8-10-7325488  
Sld Roy  
1-Burton  
TD 11,744  
12-30-8828708  
Meridian  
1-Pile  
TD 580921226  
Pat  
3-Superior Fed  
TD 11,710  
5-18-77  
(8-8-74)PARKWAY S, 75  
(BONE SPRING, WOLFCAMP, STRAWN)21009  
TXO  
1-Williamson  
TD 11,780  
1-7-7403877  
Campbell  
1-Lambie  
TD 1830  
8-30-8021110  
Williamson  
(Tex 525)  
2-0-82  
TD 11,850  
2-25-83FROM  
ROG FED.  
At 110089  
Haskins  
Lambie  
TD 1320  
1-1-8326128  
Williamson  
3-Center  
TD 5200  
12-1-93Williamson  
(Avance)  
1(2)-Center  
TD 13,020  
10-1-88BURTON FLAT E, 76  
(BONE SPRING, WOLFCAMP, STRAWN, ATO A. MORROW)30351  
TD 135020418  
Slate  
1-Gila  
TD 810025148  
Westall  
(Williamson)  
1-Center  
TD 11,845  
11-5-90

17

10402  
Trigg  
1-QY Fed  
TD 137821258  
TD 11,87823888  
TXO  
3-A Williamson  
TD 11,8743297  
TD 800026281  
TD 800021360  
TD 11,95727004  
Williamson  
8-TDQ  
TD 8805  
5-18-86Disc -  
PARKWAY S  
21438  
TXO  
6-A Williamson  
TD 11,850  
3-21-7826450  
TD 5952  
25984  
TD 258703849  
Emo  
1-Fed  
TD 174826354  
Yates  
1-AHQ Gazelle  
TD 12,520  
8-12-90

20

21367  
Yates  
1-A Yates  
TD 12,000  
9-29-85CARLSBAD KNOWN POTASH  
LEASING AREA BOUNDARY

21

GETTY, 27  
(YATES, BONE SPRING, MORROW)

22

T20S R2

23885  
Blues  
1-DB Fed  
TD 1842  
8-8-8103658  
Gerty  
3-Dooley  
TD 1854  
8-28-3003668  
Yates  
(Miss)  
3(1)-Stebbins Fed  
TD 1402  
10-23-82

29

10401  
Trigg  
1-C Fed  
TD 1483  
8-16-8426897  
Yates  
1-AIN Trigg  
TD 12,138  
8-20-81

28

50798  
Yates  
1-Trigg  
TD 1784  
5-31-8831887  
Fasken  
1-Knight Fed  
ODisc -  
SCANLON E  
27839  
Yates  
1-Zinnia  
TD 12,500  
7-14-98  
(3-27-88)

27

SCANLON E, 96  
(DELAWARE)ON, 66  
WOLFCAMP, STRAWN.03668  
Yates  
4-Stebbins  
TD 837

# Shackelford Oil Company

## VI.

### Well Data of Well Review Area

OK

#### 1. a. Texas Oil and Gas - Williamson #2 - Gila 1980' FSL and 1980' FEL - Sec. 9 T20S R29E.

Date Drilled : 4/12/74

Depth: 11,850'

Construction: 13 3/8" 48# 644' 650 sx

8 5/8" 24# & 32# 3210' 1900 sx *dic.*

Plugging Report: P & A 4/28/74

Plugs: 150 sx 11,650'

50 sx 11,300'

100 sx 10,800'

50 sx 9,300'

50 sx 7,800'

50 sx 6,300'

50 sx 4,800'

50 sx 3,200'

10 sx Surface

#### b. J.C. Williamson & D.W. Underwood et al. - Re-entry #1 1980' FSL and 1980' FEL - Sec. 9 T20S R29E

Date Re-entered: 10/14/75

Depth: 11,672'

Construction: 13 3/8" 48# 644' 650 sx

8 5/8" 24# & 32# 3210' 1900 sx

5 1/2" 17# & 20# 11,620' 200 sx

Completion: 11,604' - 11,616' 1500 gallons 4 1/2% acid

11,539' - 11,551' 1650 gallons 4 1/2% acid

11,460' - 11,508' 2000 gallons 4 1/2% acid

12/27/76 10,921' - 10,831' from 12,000 gallons 4 1/2% acid

Plugging Report - 12/2/77

Plugs: #1 50 sx 11,690' - 11,085'

Pulled 5 1/2" casing from 9720'.

#2 9769' - 9547'

#3 9350' - 9128'

#4 6350' - 6128'

#5 4800' - 4578'

#6 3200' - 2970'

#7 20' - 0'

Installed marker

# Shackelford Oil Company

c. Siete Oil & Gas - Re-entry #2 1980' FSL and 1980' FEL - Sec. 9 T20S R29E

Date re-entered: 11/6/90

Construction: 13 3/8" 48# 644'

8 5/8" 3210'

PBTD: 3177'

Completion: 3177' - 3137' Acidized 1000 gallons, Frac

1300 gallons 26,000# sand

12/20/90 - Change operations to J.C. Williamson

Plugging Report - 9/25/93

100' cement on top of old plug at 3177'

100 sx plug 644' 250 tagged.

25 sx plug at surface.

2. Siete Oil and Gas - #1 - Gila 660' FSL and 660' FL - Sec. 10 T20S R29E

Date Drilled: July 19, 1990

Total Depth: 6100' PBTD 5581'

Construction: 20" 94# 247' 570 sx

13 3/8" 48# 1115' 985 sx

8 5/8" 32# & 24# 3000' 1000 sx (1" to surface)

Completion: 5844' - 5866' 1000 gal. Acid 19,000 gal. Gel 21,000# sand

5562' - 5580' 1000 gal. Acid 20,000 gal. Gel 42,000# sand

Re-completion: 5/93 - RBP @ 5200'

5120' - 5130' 50 gal. Acid Frac 5600 gals.

6193' repull RBP

Change of Operator - J.C. Williamson (1/18/96)

Re-completion - (4/1/03) - 4857' - 4897'

4930' - 98'

5000' - 95'

5120' - 90' Acidize 4000 gals. 30,000 gals. 75,000 # sand

3. TOCO LLC - TOG Federal #9 660' FNL and 380' FEL - Sec. 16 T20S R29E, Eddy County, N.M.

Date Drilled: 12/8/96

Total Depth: 1410'

Construction: 13 3/8" 35#

9 5/8" 563' 335 sx (ready mix to top)

7" 23# 1195' 200 sx circ. 20 sx

4 1/2" 10.50# 1410' 126 sx TOC 300'

Completion: 1344' - 1362' Acidize 1000 gals. Acid

Tested water set CIBP at 1332'

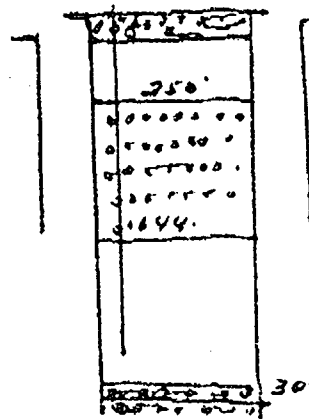
1220' - 1228' Acidize & Frac

Wellbore Schematic of

Williamson #2 Gila

1980 FSL & 1980 FEL Sec. 9 T20S R29E

Plugged 9/93



13 3/8" 48# 644'

8 5/8" 24# + 32# circ. cmt.

3210'

3077' 3177'



# Shackelford Oil Company

## VII.

1. Proposed average daily rate: 250 BWPD  
Proposed maximum daily rate: 1400 BWPD
2. This option will be a closed system.
3. Proposed average injection pressure: 200 PSI  
Proposed maximum injection pressure: 1000 PSI
4. Water to be disposed of in this well will be from the following wells in:  
Sec. 20 T20S R29E  
EDDY IK STATE #1      Unit Letter G  
EDDY IK STATE #2      Unit Letter F

This water is from the Seven Rivers Formation.

# Shackelford Oil Company

## VIII.

1. Formation Name: Yates and Seven Rivers  
Lithology : Dolomite and Sandy Dolomite.  
Thickness: 16'
2. There are no water wells permitted for use in this area.

# Shackelford Oil Company

## XII.

Shackelford Oil Company has made a thorough examination of the available geologic and engineering data and has found no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.

by   
**DON G. SHACKELFORD**

# XIV. Proof of Notice

## Shackelford Oil Company

P. O. Box 10665  
Midland, Texas 79702

Phone (915) 682-9784  
Fax (915) 684-5026

May 16, 2003

Midland, TX 79702

Certified Mail #70000520002038978045

Dear Sirs:

This letter shall constitute official notice that Shackelford Oil Company proposes to convert the ROG Federal #1, located at 660' FSL and 810' FEL, Sec. 9 T20S R29E, Eddy County, New Mexico, into a salt water disposal well with water to be disposed into the Yates Formation from 1162' - 1174'.

Should you have any questions related to this application, please contact the New Mexico Oil Conservation Division within fifteen (15) days of the date of this letter.

Sincerely,

DGS/llh



U.S. Postal Service	
CERTIFIED MAIL RECEIPT	
(Domestic Mail Only; No Insurance Coverage Provided)	
Postage	3 1.37
Certified Fee	2.30
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 2.67
Postmark Here	
Recipient's Name (Please Print Clearly) (To be completed by mailer)	
J. C. Williamson	
Street, Apt. No., or P.O. Box No.	
Box 16	
City, State, ZIP+4	
Midland, TX 79702	

# Shackelford Oil Company

P. O. Box 10665  
Midland, Texas 79702

Phone (915) 682-9784  
Fax (915) 684-5026

May 16, 2003

RAY WESTALL  
Box 4  
Loco Hills, N.M. 88255

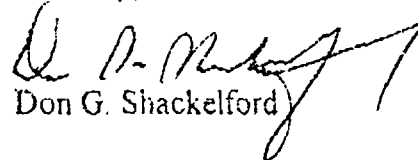
Certified Mail #70000520002038978038

Dear Sirs:

This letter shall constitute official notice that Shackelford Oil Company proposes to convert the ROG Federal #1, located at 660' FSL and 810' FEL, Sec. 9 T20S R29E, Eddy County, New Mexico, into a salt water disposal well with water to be disposed into the Yates Formation from 1162' - 1174'.

Should you have any questions related to this application, please contact the New Mexico Oil Conservation Division within fifteen (15) days of the date of this letter.

Sincerely,

  
Don G. Shackelford

DGS/lh



U.S. Postal Service	
CERTIFIED MAIL RECEIPT	
(Domestic Mail Only. No Insurance Coverage Provided)	
[Redacted]	
Postage	\$ .37
Certified Fee	2.30
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 2.67
Postmark Here	
Recipient's Name (Please Print Clearly; To be completed by mailer)	
Ray Westall	
Street, Apt. No., or PO Box No.	
Box 4	
City, State, ZIP+4	
Loco Hills, N.M. 88255	

**Shackelford Oil Company**

P. O. Box 10665  
Midland, Texas 79702

Phone (915) 682-9784  
Fax (915) 684-5026

May 16, 2003

BUREAU OF LAND MANAGEMENT  
620 E. Green  
Carlsbad, N.M. 88220

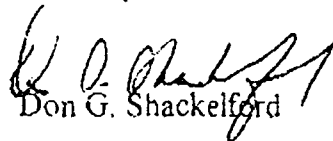
Certified Mail #70000520002038978021

Dear Sirs:

This letter shall constitute official notice that Shackelford Oil Company proposes to convert the ROG Federal #1, located at 660' FSL and 810' FEL, Sec. 9 T20S R29E, Eddy County, New Mexico, into a salt water disposal well with water to be disposed into the Yates Formation from 1162' - 1174'.

Should you have any questions related to this application, please contact the New Mexico Oil Conservation Division within fifteen (15) days of the date of this letter.

Sincerely,

  
Don G. Shackelford

DGS/ljh



1208 2598 3897 8021	Postage	\$ .37	Postmark Here
1208 2488 3847 8021	Certified Fee	2.30	
0200 0200 0200 0255	Return Receipt Fee (Endorsement Required)		
	Restricted Delivery Fee (Endorsement Required)		
	Total Postage & Fees	\$ 2.67	
Recipient's Name (Please Print Clearly) (To be completed by mailer)			

Page : 1 of 1  
 Printed : 05/21/2003 06:03  
 Order Number : 21179574  
 PO Number :  
 Customer : 02000 - LEGALS - ONE TIME ADS  
 Contact :  
 Address1 : CCA  
 Address2 : P O BOX 1029  
 City : CARLSBAD, NM 88221  
 Phone : (505) 887-5501  
 Fax :

Ad Number : 21179575  
 Publication : Current-Argus  
 Category : 999 LEGALS  
 First Pub : 05/23/2003  
 Last Pub : 05/23/2003  
 Days : 1  
 Size : 1 x 3.40, 34 lines  
 Ad Rate : open  
 Ad Price : 5.32  
 Order Price : 5.32  
 Amount Paid : 0.00  
 Amount Due : 5.32

Keywords : May 23, 2003 LEGAL NOTICE: Shackelford Oil Company, P. O. Box 10665, Midland  
 Printed By : Sally Armstrong  
 Entered By : Sally Armstrong

May 23, 2003

## LEGAL NOTICE.

Shackelford Oil Company, P. O. Box 10665, Midland, TX, 79702, has submitted an application to inject salt water, to the New Mexico Oil Conservation Division for the HOG Federal #1, located 030' P8L and 510' FEL of Section 9, T-20-S, R-33E, Eddy County, New Mexico. We propose to inject into the Yates formation at a depth between 1162 - 1174' at a maximum injection rate of 1400 BWPD and maximum pressure of 1000 PSI. Any party interested in filing an objection or request a hearing must contact the New Mexico Oil Conservation Division in writing at 1220 St. Francis, Santa Fe, New Mexico 87504 within 15 days of this notice. For additional information contact Don Shackelford at (505) 882-6781.

## Carlsbad Current-Argus

620 S. Main  
 Carlsbad, New Mexico 88220  
 887-5501

Acct. #

ADN

Name

Address

City

CASH	CHECK	REC. ON	CLASS	CLASS	MISC.	C.R.C.
	186	22	C	CLASS		
ACCOUNT						AMOUNT
A 21179574						
5/23/2003						
Legal						
Application						
Inject Salt						
Water						30.26
109138						
Rec'd. By						
JA						