

ARCO Oil and Gas Company
Central District
Post Office Box 1610
Midland, Texas 79702
Telephone 915 688 5200

NEW MEXICO OIL CONSERVATION DIVISION
RECEIVED



OCT 23 AM 9 36

October 19, 1989

Mr. William J. LeMay, Director
New Mexico Oil Conservation Division
P.O. Box 2088
Santa Fe, NM 87501

RE: Expansion of Seven Rivers Queen Unit Waterflood Project
Administrative Approval Request
Eunice, S. and Langlie Mattix Pools
Lea County, New Mexico

Dear Mr. LeMay,

ARCO Oil and Gas Company respectfully requests administrative approval to expand the Seven Rivers Queen Unit Waterflood Project by converting wells #32, 38, 44, and 52 from oil production to water injection. All of these wells are considered to be "stripper" wells; well #32 produces approximately 5 BOPD and 27 MCFGPD, and #38 produces approximately 4 BOPD and 7 MCFGPD. Wells #44 and #52 are currently shut in due to uneconomical production rates.

Water injection in the #32, 38, 44, and 52 will provide waterflood support to six existing and four proposed Seven Rivers Queen Unit producers. This will enable a more complete recovery of waterflood reserves on the Seven Rivers Queen Unit by increasing the areal sweep of the waterflood.

A copy of this application has been furnished by certified mail to the surface owners and the offset operators within one-half mile of the wells which are proposed to be converted to water injection. Copies of the return receipts are attached. In addition, a notice has been published in the Hobbs Daily News Sun newspaper. The affidavit of publication is attached.

Yours Very Truly,

Cindy W. Ellis
Senior Engineer

CWE
Enclosures

CC: New Mexico Oil Conservation Division, District 1 Office
P.O. Box 1980
Hobbs, NM 88240

Surface Owners (List Attached)

Offset Operators (List Attached)

ARCO Oil and Gas Company
Central District
Post Office Box 1610
Midland, Texas 79702
Telephone 915 688 5200



October 12, 1989

~~OFFSET OPERATORS~~

RE: Expansion of Seven Rivers Queen Unit Waterflood Project
Administrative Approval Request
Eunice, S. and Langlie Mattix Pools
Lea County, New Mexico

Dear Sirs:

Attached is a copy of ARCO Oil and Gas Company's application for administrative approval of the expansion of the Seven Rivers Queen Unit Waterflood Project. We propose to convert 4 existing producers to water injection wells to improve waterflood recovery from the SRQU.

If you have any questions pertaining to this application, please contact Cindy W. Ellis, Sr. Engineer at (915) 688-5546 or Jack T. Lowder, Area Engineer at (915) 688-5557.

Any objections or requests for hearing must be made within 15 days from the date of this application to the New Mexico Oil Conservation Division in Santa Fe.

Very Truly Yours,

Cindy W. Ellis
Senior Engineer

CWE
Enclosures

CC: New Mexico Oil Conservation Division, District 1 Office
P.O. Box 2088
Santa Fe, NM 87501

New Mexico Oil Conservation Division
P.O. Box 1980
Hobbs, NM 88240

ARCO OIL & GAS COMPANY
APPLICATION TO EXPAND SRQU WATERFLOOD PROJECT
OFFSET OPERATORS

Meridian Oil, Inc.
21 Desta Drive
Midland, TX 79705

John Hendrix Corporation
223 W. Wall
Midland, TX 79701

Rasmussen Operating, Inc.
6 Desta Drive, Suite 5850
Midland, TX 79705

Chevron USA, Inc.
P.O. Box 670
Hobbs, NM 88240

Texaco, Inc.
P.O. Box 3109
Midland, TX 79702

Conoco Oil Company
P.O. Box 460
Hobbs, NM 88240

Marathon Oil Company
P.O. Box 552
Midland, TX 79702

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.
 Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. Show to whom delivered, date, and addressee's address. (Extra charge) 2. Restricted Delivery (Extra charge)

3. Article Addressed to: Chevron USA, Inc. P. O. Box 670 Hobbs, NM 88240	4. Article Number P 477 984 507
Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise	
Always obtain signature of addressee or agent and DATE DELIVERED.	
5. Signature - Address X <i>Christine Alden</i>	8. Addressee's Address (ONLY if requested and fee paid)
6. Signature - Agent X	
7. Date of Delivery <i>10-13-89</i>	

PS Form 3811, Mar. 1988 * U.S.G.P.O. 1988-212-865 DOMESTIC RETURN RECEIPT

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.
 Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. Show to whom delivered, date, and addressee's address. (Extra charge) 2. Restricted Delivery (Extra charge)

3. Article Addressed to: Conoco Oil Company P. O. Box 460 Hobbs, NM 88240	4. Article Number P 477 984 509
Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise	
Always obtain signature of addressee or agent and DATE DELIVERED.	
5. Signature - Address X <i>Jolene D. Ray</i>	8. Addressee's Address (ONLY if requested and fee paid)
6. Signature - Agent X	
7. Date of Delivery <i>10-13-89</i>	

PS Form 3811, Mar. 1988 * U.S.G.P.O. 1988-212-865 DOMESTIC RETURN RECEIPT

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1. Show to whom delivered, date, and addressee's address. (Extra charge) 2. Restricted Delivery (Extra charge)

3. Article Addressed to: John Dinwiddie (Lessee) P. O. Box 302 Jal, NM 88252	4. Article Number P 046 661 749
Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise	
Always obtain signature of addressee or agent and DATE DELIVERED.	
5. Signature - Address <i>John Dinwiddie</i>	8. Addressee's Address (ONLY if requested and fee paid)
6. Signature - Agent X <i>By Mrs. W. D. Dinwiddie</i>	
7. Date of Delivery <i>10-13-89</i>	

PS Form 3811, Mar. 1988 * U.S.G.P.O. 1988-212-865 DOMESTIC RETURN RECEIPT

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.
 Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. Show to whom delivered, date, and addressee's address. (Extra charge) 2. Restricted Delivery (Extra charge)

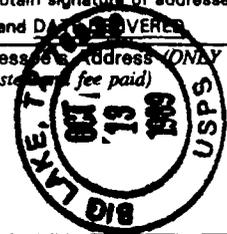
3. Article Addressed to: John Hendrix Corporation 223 W. Wall Midland, Texas 79701 #5	4. Article Number P 477 984 506
	Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise
	Always obtain signature of addressee or agent and DATE DELIVERED.
5. Signature - Address X	8. Addressee's Address (ONLY if requested and fee paid)
6. Signature - Agent X Cathy Price	
7. Date of Delivery 10/13/89	

PS Form 3811, Mar. 1988 * U.S.G.P.O. 1988-212-865 DOMESTIC RETURN RECEIPT

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1. Show to whom delivered, date, and addressee's address. (Extra charge) 2. Restricted Delivery (Extra charge)

3. Article Addressed to: Opal M. Jones Styles Route Big Lake, Texas 76932	4. Article Number P 046 661 748
	Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise
	Always obtain signature of addressee or agent and DATE DELIVERED.
5. Signature - Address X Opal M. Jones	8. Addressee's Address (ONLY if requested and fee paid)
6. Signature - Agent X W. Hester	
7. Date of Delivery 10-13-89	



PS Form 3811, Mar. 1988 * U.S.G.P.O. 1988-212-865 DOMESTIC RETURN RECEIPT

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1. Show to whom delivered, date, and addressee's address. (Extra charge) 2. Restricted Delivery (Extra charge)

3. Article Addressed to: Marathon Oil Company P. O. Box 552 Midland, Texas 79702 #5	4. Article Number P 046 661 747
	Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise
	Always obtain signature of addressee or agent and DATE DELIVERED.
5. Signature - Address X	8. Addressee's Address (ONLY if requested and fee paid)
6. Signature - Agent X Sammy Edwards	
7. Date of Delivery 10-13-89	

PS Form 3811, Mar. 1988 * U.S.G.P.O. 1988-212-865 DOMESTIC RETURN RECEIPT

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1. Show to whom delivered, date, and addressee's address. (Extra charge) 2. Restricted Delivery (Extra charge)

3. Article Addressed to: Meridian Oil, Inc. 21 Desta Drive Midland, Texas 79705	4. Article Number P 477 984 505 Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise
Always obtain signature of addressee or agent and DATE DELIVERED.	
5. Signature - Address X	8. Addressee's Address (ONLY if requested and fee paid)
6. Signature - Agent X	
7. Date of Delivery 10/13	

PS Form 3811, Mar. 1988 * U.S.G.P.O. 1988-212-865 DOMESTIC RETURN RECEIPT

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1. Show to whom delivered, date, and addressee's address. (Extra charge) 2. Restricted Delivery (Extra charge)

3. Article Addressed to: Rasmussen Operating, Inc. 6 Desta Drive, Suite 5850 Midland, Texas 79705	4. Article Number P 046 661 750 Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise
Always obtain signature of addressee or agent and DATE DELIVERED.	
5. Signature - Address X	8. Addressee's Address (ONLY if requested and fee paid)
6. Signature - Agent X <i>Nona Hopkins</i>	
7. Date of Delivery 10-16-88	

PS Form 3811, Mar. 1988 * U.S.G.P.O. 1988-212-865 DOMESTIC RETURN RECEIPT

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1. Show to whom delivered, date, and addressee's address. (Extra charge) 2. Restricted Delivery (Extra charge)

3. Article Addressed to: Texaco Inc. P. O. Box 3109 Midland, Texas 79702	4. Article Number P 477 984 508 Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise
Always obtain signature of addressee or agent and DATE DELIVERED.	
5. Signature - Address X	8. Addressee's Address (ONLY if requested and fee paid)
6. Signature - Agent X <i>[Signature]</i>	
7. Date of Delivery 10-13-89	

PS Form 3811, Mar. 1988 * U.S.G.P.O. 1988-212-865 DOMESTIC RETURN RECEIPT

AFFIDAVIT OF PUBLICATION

State of New Mexico,
County of Lea.

I, George W. Moore

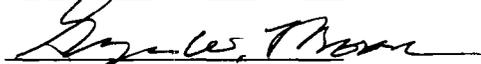
of the Hobbs Daily News-Sun, a daily newspaper published at Hobbs, New Mexico, do solemnly swear that the clipping attached hereto was published once a week in the regular and entire issue of said paper, and not a supplement thereof for a period

of _____

One weeks.
Beginning with the issue dated

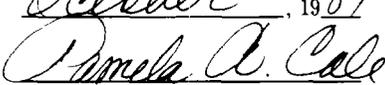
October 8, 1989
and ending with the issue dated

October 8, 1989


Publisher.

Sworn and subscribed to before

me this 17 day of

October, 1989

Notary Public.

My Commission expires _____

July 12, 1993

(Seal)

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937, and payment of fees for said publication has been made.

LEGAL NOTICE
October 8, 1989

Notice is hereby given that ARCO Oil and Gas Company has filed an application to inject water with the New Mexico Oil Conservation Division. The application is for expansion of the Seven Rivers Queen Unit Waterflood Project, and will involve the conversion of wells #32, 38, 44, and 52 to water injection. The purpose of injection is to develop waterflood reserves. Injection will be in the Lower Seven Rivers and Queen formations within the Eunice, S. and Langlie Mattix Oil Pools at an approximate depth of 3652 ft to 3810 ft. The approximate injection rate and maximum pressure are estimated to be 400 BWPD at 730 psig. The well locations are as follows:
#32: 2310'FEL, & 2310' FEL, Sec 34 T22S, R36E;
#38: 660'FSL & 990'FEL, Sec 34, T22S, R36E; #44: 660'FNL & 660'FWL, Sec 2 T23S, R36E; #52: 1980'FNL & 660'FEL, Sec 3, T23S, R36E, ALL IN LEA COUNTY, NEW MEXICO. Refer questions to Cindy Ellis, ARCO Oil and Gas Company, P.O. Box 1610, Midland, TX 79702, PHONE (915) 688-5546 or Jack Lowder 688-5557. Any objections to this application must be presented to the New Mexico Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico, 87501, within 15 days of this notice.

APPLICATION FOR AUTHORIZATION TO INJECT

- I. Purpose: Secondary Recovery Pressure Maintenance Disposal Storage
Application qualifies for administrative approval? yes no
- II. Operator: ARCO Oil & Gas Company
Address: P.O. Box 1610, Midland, TX 79702
Contact party: Cindy Ellis, Sr. Engineer Phone: (915) 688-5546
- 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 R-4589.
- 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. Previously submitted. Data on new wells is attached.
- 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. Previously submitted. No change.
- IX. Describe the proposed stimulation program, if any. Attached
- * X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.) Attached.
- * 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. Previously submitted-No changes.
- 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: Cindy Ellis Title Senior Engineer
Signature: Cindy W. Ellis Date: 10-13-89
- * 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 of the earlier submittal. Initial application to inject in 1973. Case # 5016.

Subsequent applications for SRQU # 64: April 1984 & SRQU #65: November 1984.

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate Division district office.

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.

NEW MEXICO
OIL CONSERVATION COMMISSION

Form C-128

Well Location and/or Gas Proration Plat

Date 1-29-57

Operator Dalport Oil Corp.

Lease Otis L. Jones "B"

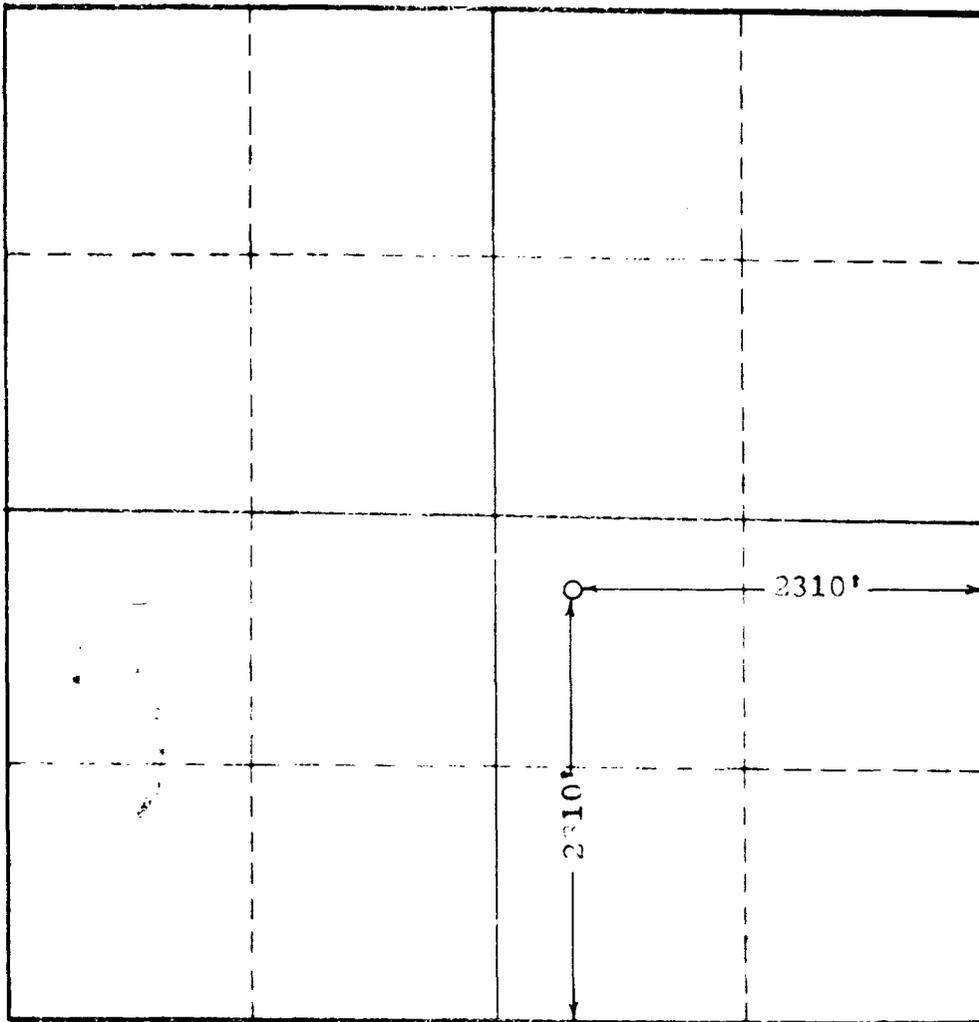
Well No. 1 Section 34 Township 22 S Range 36 E NMPM

Located 2310 Feet From South Line, 2310 Feet From East Line,

Lea County, New Mexico. G. L. Elevation 3497.1

Name of Producing Formation _____ Pool _____ Dedicated Acreage _____

(Note: All distances must be from outer boundaries of Section)



*new well
name:
Seven Rivers
Queen Unit #32
Cindy W. Ellis
10-5-89*

SCALE: 1"=1000'

1. Is this Well a Dual Comp.? Yes ___ No ___

2. If the answer to Question 1 is yes, are there any other dually completed wells within the dedicated acreage? Yes ___ No ___

This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.

Name _____
Position _____
Representing _____
Address _____

Date Surveyed 1-28-57
John W. West
Registered Professional Engineer and/or
Land Surveyor

NEW MEXICO OIL CONSERVATION COMMISSION

Well Location and Acreage Dedication Plat

Section A.

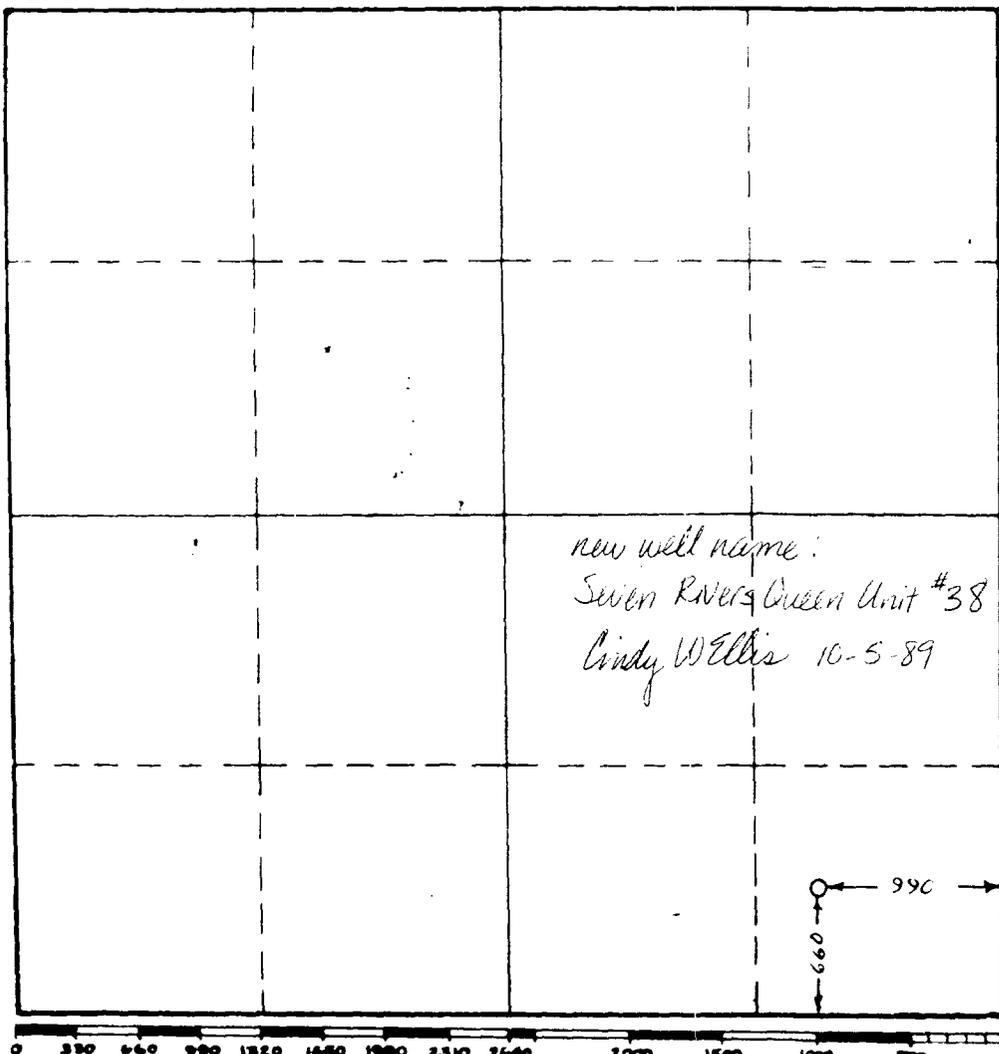
Date 7-12-57

Operator Dalport Oil Corp. Lease Otis L. Jones "C"
 Well No. 2 Unit Letter P Section 34 Township 22 South Range 36 East NMPM
 Located 660 Feet From South Line, 990 Feet From East Line
 County Lea G. L. Elevation 3494.2 Dedicated Acreage _____ Acres
 Name of Producing Formation Queen Pool South Eunice

1. Is the Operator the only owner* in the dedicated acreage outlined on the plat below?
 Yes _____ No X
2. If the answer to question one is "no," have the interests of all the owners been consolidated by communitization agreement or otherwise? Yes X No _____. If answer is "yes," Type of Consolidation Operating Contract
3. If the answer to question two is "no," list all the owners and their respective interests below:

<u>Owner</u>	<u>Land Description</u>
<u>Dalport Oil Corp</u>	
<u>Cities</u>	

Section B



This is to certify that the information in Section A above is true and complete to the best of my knowledge and belief.

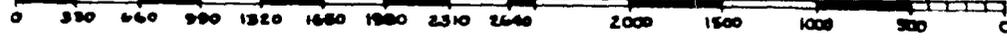
(Operator)

(Representative)

Address

This is to certify that the well location shown on the plat in Section B was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed 7-12-57
John W. West
 Registered Professional
 Engineer and/or Land Surveyor.



(See instructions for completing this form on the reverse side)

Certificate No. 676

NEW MEXICO OIL CONSERVATION COMMISSION
Well Location and Acreage Dedication Plat

HOBBS OFFICE OCC

Section A.

Date: 10-4-28-58

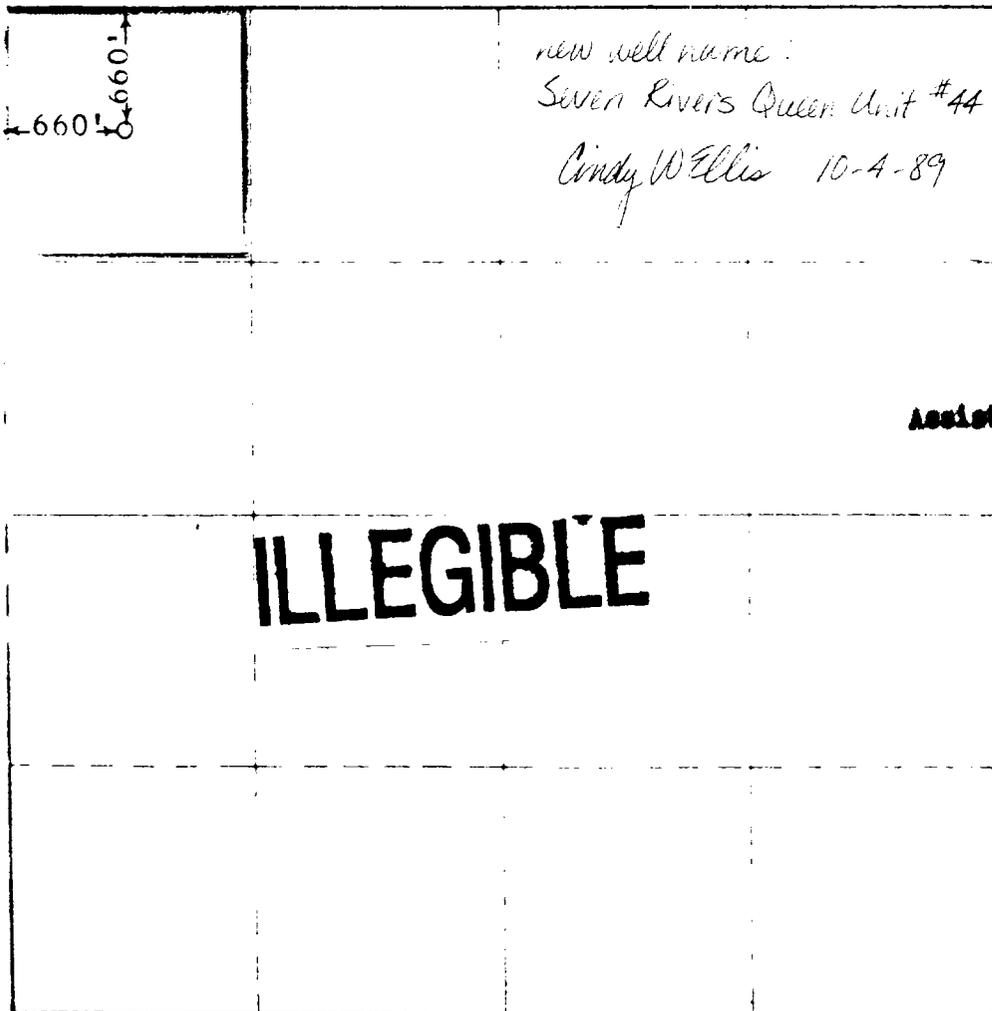
23 PM 3:53

Operator Gulf Oil Corp. Lease J. F. Janda NCT-I
Well No. 3 Unit Letter D Section 2 Township 23 S Range 36 E NMPM
Leased 660 Feet From North Corner, 660 Feet From West Line
County Lea Designation Oil Dedicated Acreage 10 Acres
Name of Producing Formation Queen Pool South Basin King's Ditch

1. Is the Operator the only owner in the dedicated acreage outlined on the plat below? Yes No .
2. If the answer to question one is "no," have the interests of all the owners been consolidated by communitization agreement or otherwise? Yes No . If answer is "yes," Type of Consolidation _____
3. If the answer to question two is "no," list all the owners and their respective interests below:

Owner	Land Description

Section B



This is to certify that the information in Section A above is true and complete to the best of my knowledge and belief.

Gulf Oil Corporation

(Operator)
ORIGINAL SIGNED

BY
J. F. TAYLOR

(Representative)

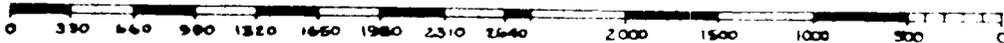
Assist. Area Production Superintendent
Box 2167 - Hobbs, New Mexico

Address

This is to certify that the well location shown on the plat in Section B was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed 4-26-58

John W. West
Registered Professional
Engineer and/or Land Surveyor.



Certificate No. 676

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

FORM C-128
 Revised 5/1/57

SEE INSTRUCTIONS FOR COMPLETING THIS FORM ON THE REVERSE SIDE

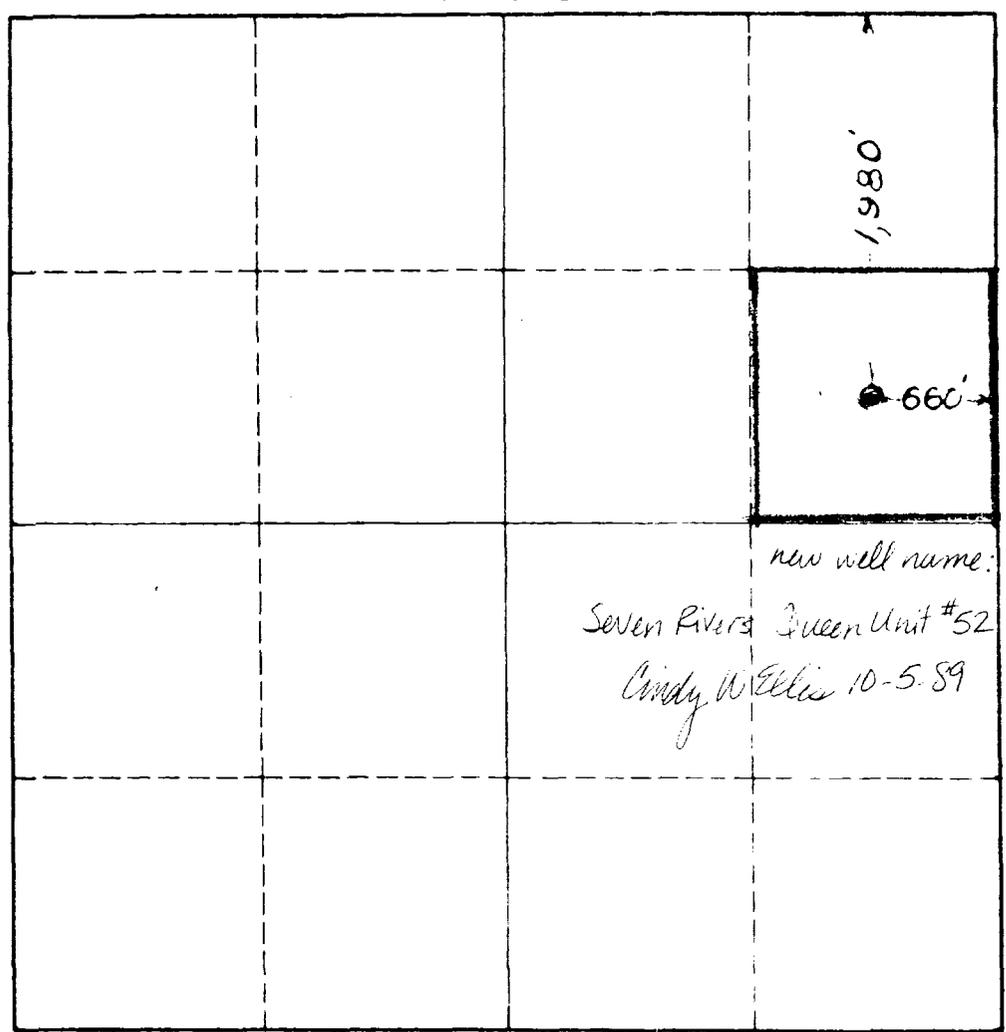
SECTION A

Operator Albert Gackle, Operator		Lease Sinclair State "B"		Well No. 14	Well No. 2 123
Unit Letter H	Section 3	Township 23 South	Range 36 East	County Lea	
Actual Footage Location of Well: 1,980' feet from the North line and 660' feet from the East line					
Ground Level Elev. 3,476'	Producing Formation Queen & L. Seven Rivers		Pool Langlie - Mattix	Dedicated Acreage 40 Acres	

1. Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES NO "Owner" means the person who has the right to drill into and to produce from any pool and to appropriate the production either in transit or for himself and another. (65-3-29 (e) NMSA 1935 Comp.)
2. If the answer to question one is "no," have the interests of all the owners been consolidated by communitization agreement or otherwise? YES NO If answer is "yes," Type of Consolidation _____
3. If the answer to question two is "no," list all the owners and their respective interests below.

Owner	Land Description

SECTION B



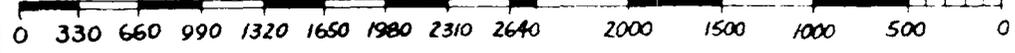
CERTIFICATION

I hereby certify that the information in SECTION A above is true and complete to the best of my knowledge and belief.

By R. F. Matzinger
 Position Agent
 Company A. Gackle, Operator
 Date March 10, 1960

I hereby certify that the well location shown on the plat in SECTION B was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed March 8, 1960
 Registered Professional Engineer and Land Surveyor
[Signature]
 Certificate No. 3069



**ARCO OIL AND GAS COMPANY
SEVEN RIVERS QUEEN UNIT #32
APPLICATION TO INJECT WATER
October, 1989**

III. WELL DATA

- A.1) Location:
2310'FSL & 2310'FEL, Section 34, T22S, R36E
Lea County, New Mexico
- 2) Casing:
8-5/8" @306' w/200 sx cement in 11" hole.
TOC @ surface: circulated.
5-1/2" @3756' w/300 sx cement in 7-7/8" hole.
TOC @2250': calculated top.
- 3) Proposed Tubing:
2-3/8" internally plastic coated @ approximately 3400'.
- 4) Proposed Packer:
Lok-set type (Baker Tool Co.) with on-off tool @ approximately 3400'.
- B.1) Injection formations: Lower Seven Rivers and Queen
Pool Name: Eunice, So. (Seven Rivers/Queen)
- 2) Injection interval: Perfs 3680-3730', Open Hole 3756-3785'.
- 3) Well was drilled 2/57 as a Eunice, So. oil producer.
- 4) Perfs from 3521'-3652' were squeezed in 3/74 w/100 sx cement.
- 5) Next higher productive pool: Jalmat. Base of the Jalmat occurs at 3581'.

VII. PROPOSED OPERATION

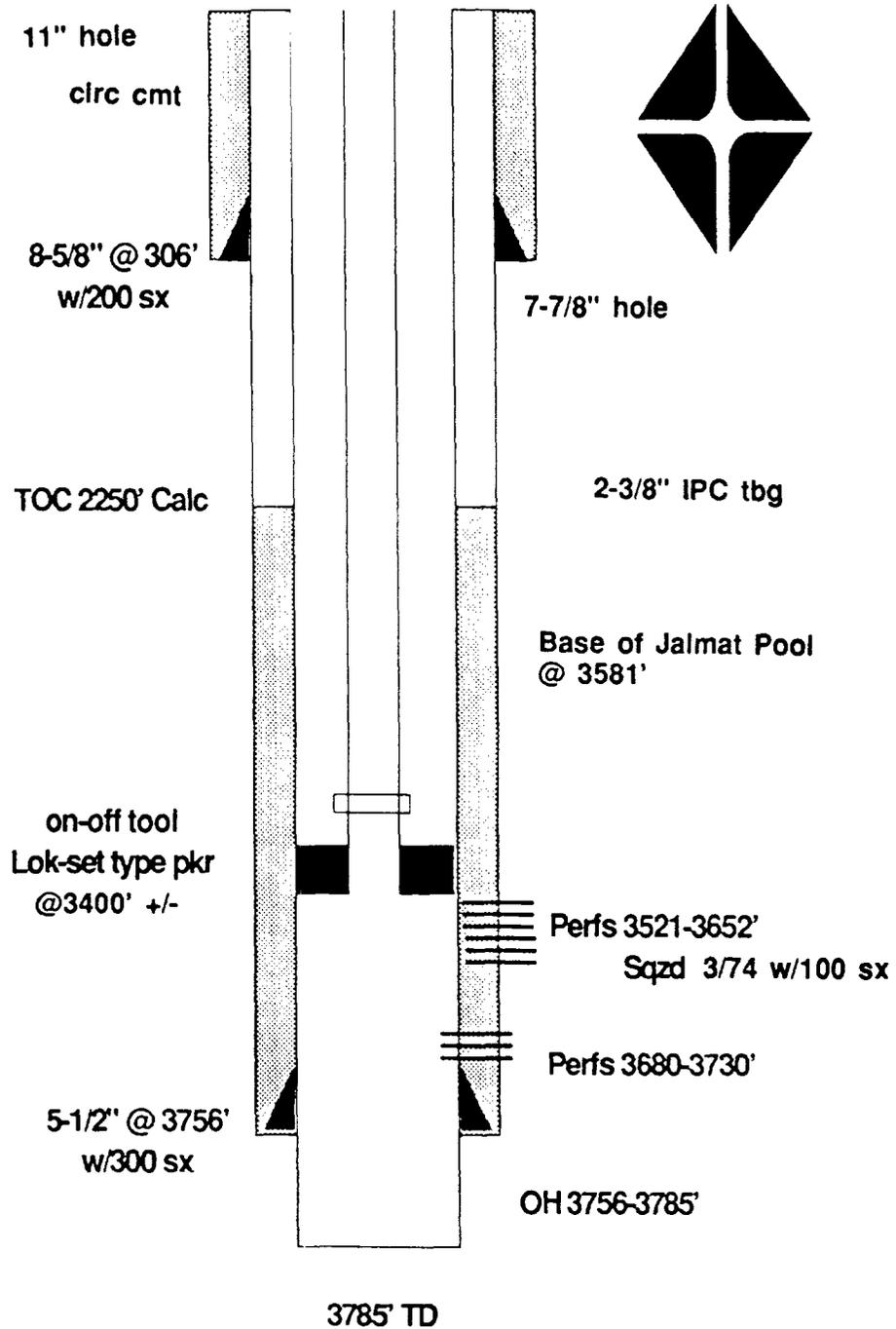
- 1) Average daily rate of fluid to be injected: 400 BWPD.
- 2) The system is closed.
- 3) Average injection pressure: 736 psi.
Maximum injection pressure: 736 psi (0.2 psi/ft).
- 4) Source of injection fluid: Texaco Jal Water System. Analysis attached.

IX. PROPOSED STIMULATION

Acidize perfs 3680-3730 & open hole 3756-3785' w/5000 gals 15% NEFE HCl w/5% micellar solvent @ 2-3 bpm @ 2000 psi in 2 stages using graded rock salt as a diverting agent between stages.

Seven Rivers Queen Unit #32

Proposed Status



ARCO OIL & GAS COMPANY
 APPLICATION TO EXPAND SRQU WATERFLOOD PROJECT
 WELL #32: EUNICE, SO.(SR/QN) POOL
 LOC: 2310'FSL & 2310'FEL SEC 34, T22S, R36E, LEA CO.
 COMPLETED 2/57 AS AN OIL PRODUCER.

**ARCO OIL AND GAS COMPANY
SEVEN RIVERS QUEEN UNIT #38
APPLICATION TO INJECT WATER
October, 1989**

III. WELL DATA

- A.1) Location:
660'FSL & 990'FEL, Section 34, T22S, R36E
Lea County, New Mexico
- 2) Casing:
8-5/8" @310' w/200 sx cement in 11" hole.
TOC @ surface: circulated.
5-1/2" @3715' w/350 sx cement in 7-7/8" hole.
TOC @1965': calculated top.
- 3) Proposed Tubing:
2-3/8" internally plastic coated @ approximately 3400'.
- 4) Proposed Packer:
Lok-set type (Baker Tool Co.) with on-off tool @ approximately 3400'.
- B.1) Injection formations: Lower Seven Rivers and Queen
Pool Name: Eunice, So. (Seven Rivers/Queen)
- 2) Injection interval: Perfs 3660-3712', Open Hole 3715-3810'.
- 3) Well was drilled 8/57 as a Eunice, So. oil producer.
- 4) Perfs from 3517'-3578' were squeezed in 3/74 w/150 sx cement. Perfs from 3606'-3650' to be squeezed upon conversion to injection w/approximately 100 sx.
- 5) Next higher productive pool: Jalmat. Base of the Jalmat occurs at 3542'.

VII. PROPOSED OPERATION

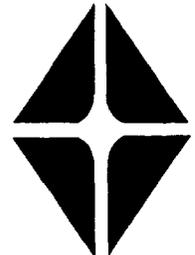
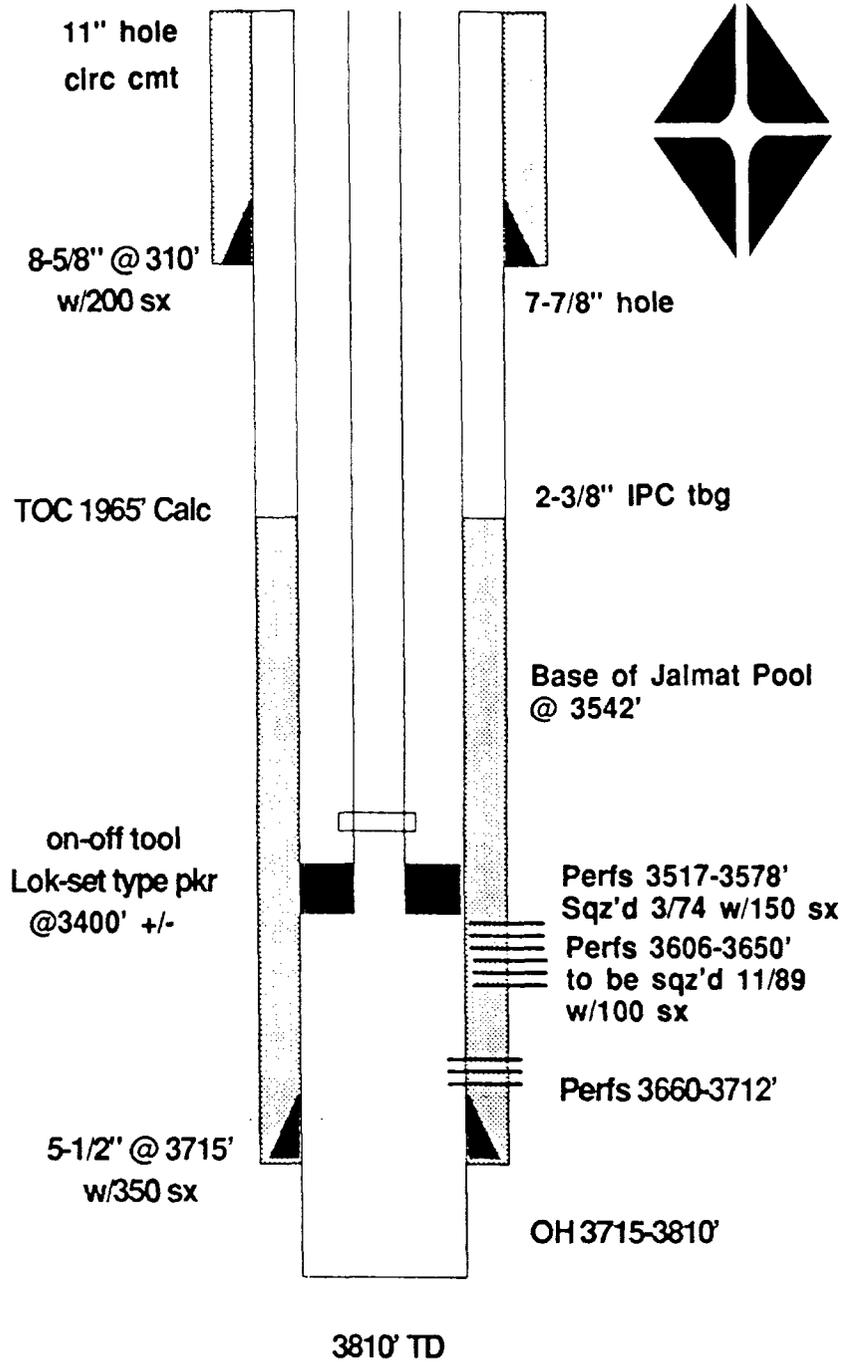
- 1) Average daily rate of fluid to be injected: 400 BWPD.
- 2) The system is closed.
- 3) Average injection pressure: 732 psi.
Maximum injection pressure: 732 psi (0.2 psi/ft).
- 4) Source of injection fluid: Texaco Jal Water System.

IX. PROPOSED STIMULATION

Acidize perfs 3660-3712 & open hole 3715-3810' w/6000 gals 15% NEFE HCl w/5% micellar solvent @ 2-3 bpm @ 2000 psi in 3 stages using graded rock salt as a diverting agent between stages.

Seven Rivers Queen Unit #38

Proposed Status



ARCO OIL & GAS COMPANY
 APPLICATION TO EXPAND SRQU WATERFLOOD PROJECT
 WELL #38: EUNICE, SO.(SR/QN) POOL
 LOC: 660'FSL & 990'FEL, SEC 34, T22S, R36E, LEA CO.
 COMPLETED 8/57 AS AN OIL PRODUCER.

**ARCO OIL AND GAS COMPANY
SEVEN RIVERS QUEEN UNIT #44
APPLICATION TO INJECT WATER
October, 1989**

III. WELL DATA

- A.1) Location:
660'FNL & 660'FWL, Section 2, T23S, R36E
Lea County, New Mexico
- 2) Casing:
8-5/8" @394' w/300 sx cement in 12-1/4" hole.
TOC @ surface: circulated.
5-1/2" @3799' w/1100 sx cement in 7-7/8" hole.
TOC @ surface: circulated.
- 3) Proposed Tubing:
2-3/8" internally plastic coated @ approximately 3400'.
- 4) Proposed Packer:
Lok-set type (Baker Tool Co.) with on-off tool @ approximately 3400'.
- B.1) Injection formations: Lower Seven Rivers and Queen
Pool Name: Langlie Mattix (Seven Rivers/Queen)
- 2) Injection interval: Perfs 3652-3757'.
- 3) Well was drilled 5/58 as a Langlie Mattix oil producer.
- 4) There are no abandoned perforations.
- 5) Next higher productive pool: Jalmat. Base of the Jalmat occurs at 3496'.

VII. PROPOSED OPERATION

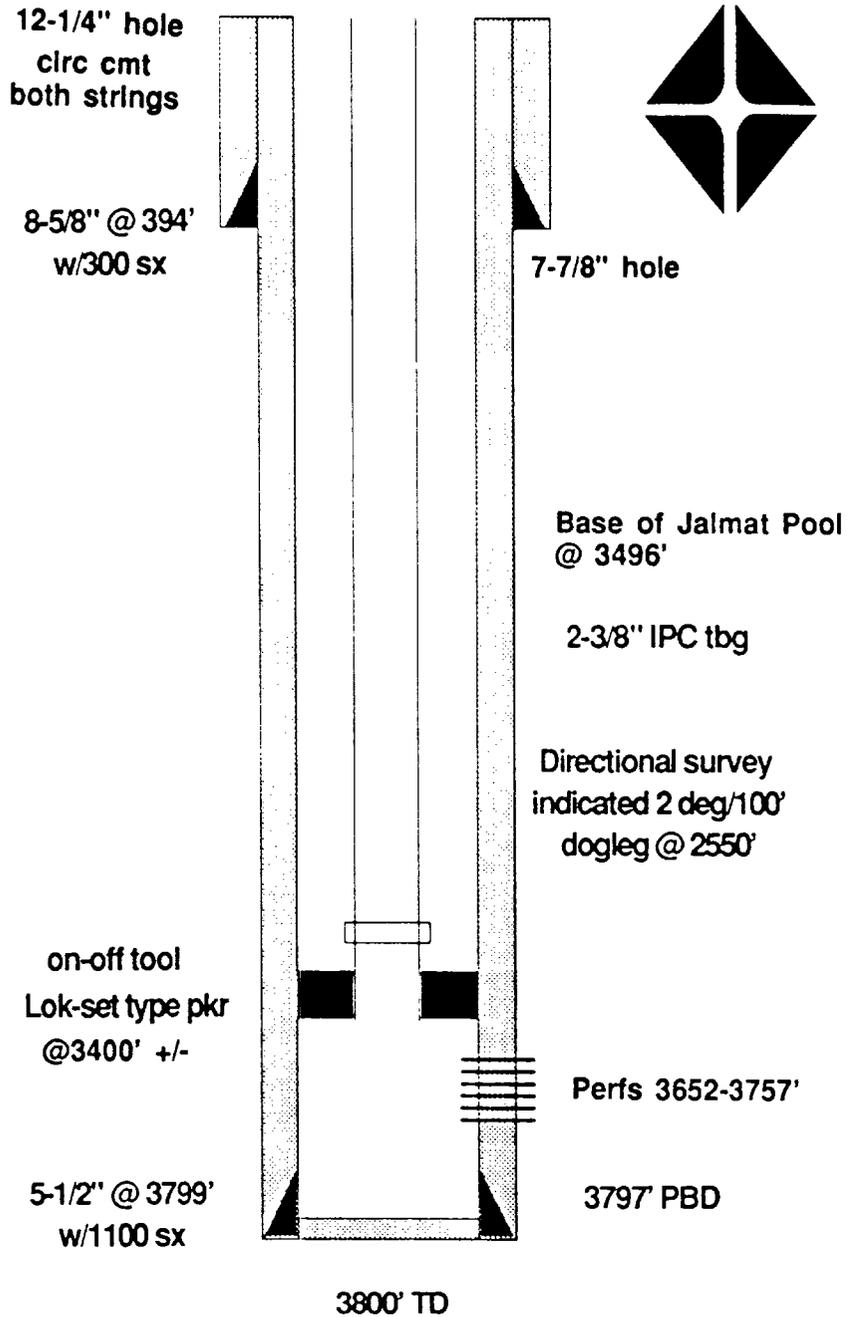
- 1) Average daily rate of fluid to be injected: 400 BWPD.
- 2) The system is closed.
- 3) Average injection pressure: 730 psi.
Maximum injection pressure: 730 psi (0.2 psi/ft).
- 4) Source of injection fluid: Texaco Jal Water System. Analysis attached.

IX. PROPOSED STIMULATION

Acidize perfs 3652-3757 w/5000 gals 15% NEFE HCl w/5% micellar solvent @ 2-3 bpm @ 3000 psi in 2 stages using graded rock salt as a diverting agent between stages.

Seven Rivers Queen Unit #44

Proposed Status



ARCO OIL & GAS COMPANY
 APPLICATION TO EXPAND SRQU WATERFLOOD PROJECT
 WELL #44: LANGLIE MATTIX (SR/QN) POOL
 LOC: 660'FNL & 660'FWL, SEC 2, T23S, R36E, LEA CO.
 COMPLETED 5/58 AS AN OIL PRODUCER.

**ARCO OIL AND GAS COMPANY
SEVEN RIVERS QUEEN UNIT #52
APPLICATION TO INJECT WATER
October, 1989**

III. WELL DATA

- A.1) Location:
1980'FNL & 660'FEL, Section 3, T23S, R36E
Lea County, New Mexico
- 2) Casing:
8-5/8" @270' w/200 sx cement in 11" hole.
TOC @ surface: circulated.
4-1/2" @3866' w/1535 sx cement in 7-7/8" hole.
TOC @ surface: circulated.
- 3) Proposed Tubing:
2-3/8" internally plastic coated @ approximately 3500'.
- 4) Proposed Packer:
Lok-set type (Baker Tool Co.) with on-off tool @ approximately 3500'.
- B.1) Injection formations: Lower Seven Rivers and Queen
Pool Name: Langlie Mattix (Seven Rivers/Queen)
- 2) Injection interval: Perfs 3654-3772'.
- 3) Well was drilled 9/60 as a Langlie Mattix oil producer.
- 4) There are no abandoned perforations.
- 5) Next higher productive pool: Jalmat. Base of the Jalmat occurs at 3500'.

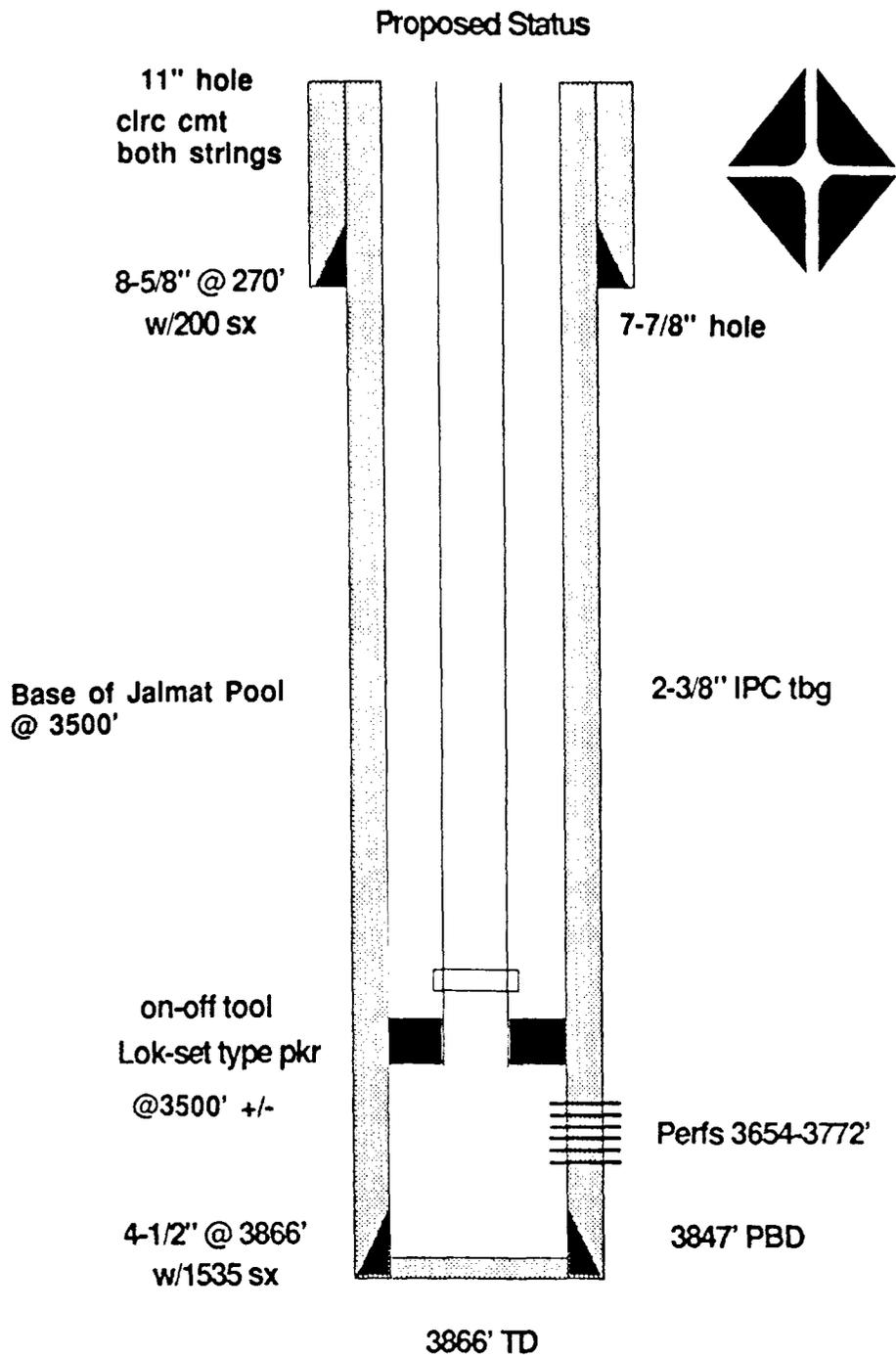
VII. PROPOSED OPERATION

- 1) Average daily rate of fluid to be injected: 400 BWPD.
- 2) The system is closed.
- 3) Average injection pressure: 731 psi.
Maximum injection pressure: 731 psi (0.2 psi/ft).
- 4) Source of injection fluid: Texaco Jal Water System. Analysis attached.

IX. PROPOSED STIMULATION

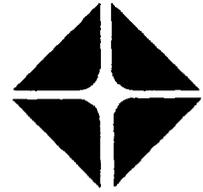
Acidize perfs 3654-3772 w/5000 gals 15% NEFE HCl w/5% micellar solvent @ 2-3 bpm @ 3000 psi in 2 stages using graded rock salt as a diverting agent between stages.

Seven Rivers Queen Unit #52

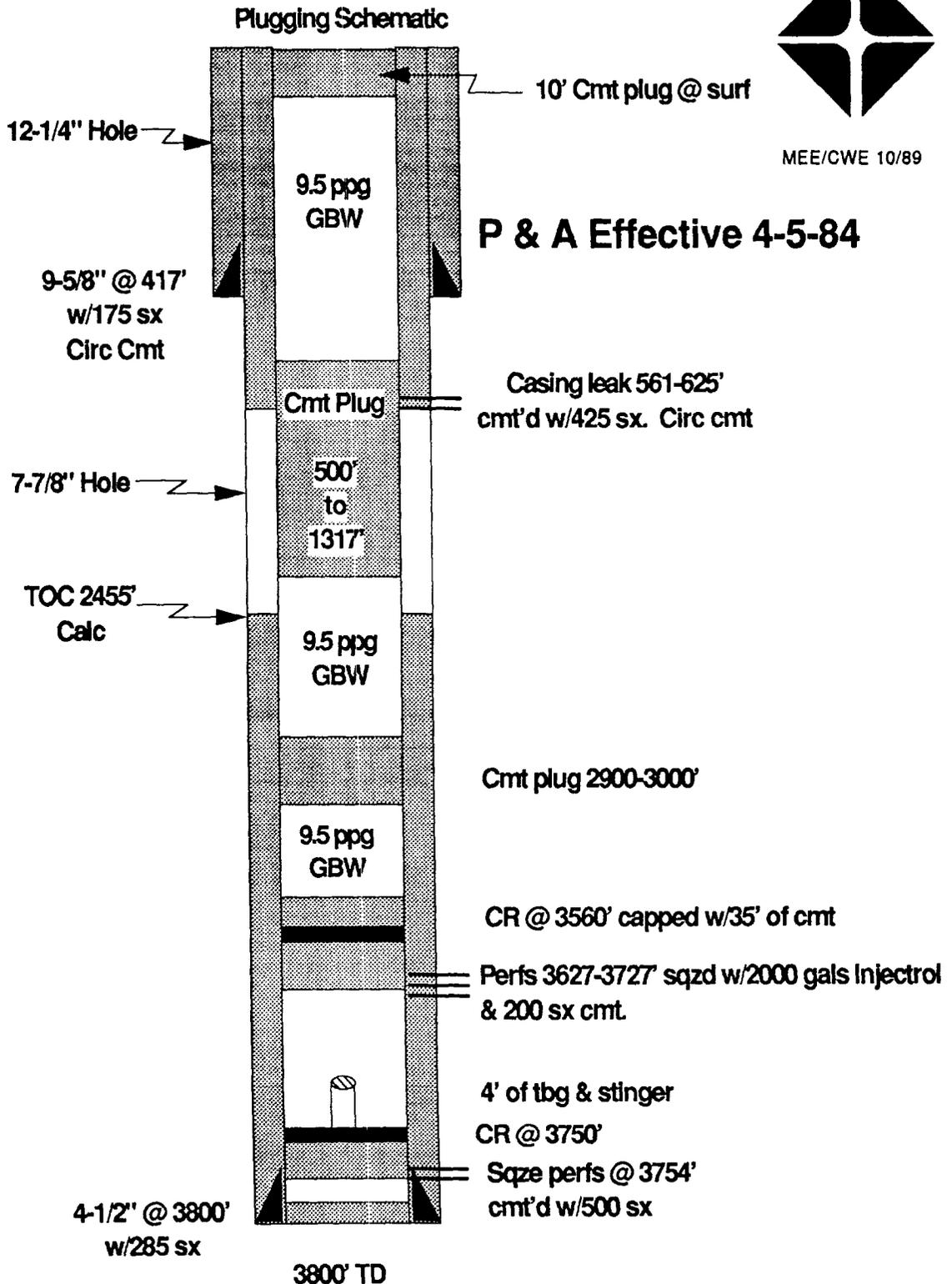


ARCO OIL & GAS COMPANY
APPLICATION TO EXPAND SRQU WATERFLOOD PROJECT
WELL #52: LANGLIE MATTIX (SR/QN) POOL
LOC: 1980'FNL & 660'FEL, SEC 3, T23S, R36E, LEA CO.
COMPLETED 9/60 AS AN OIL PRODUCER.

Seven Rivers Queen Unit #53



MEE/CWE 10/89



ARCO OIL & GAS COMPANY
 APPLICATION TO EXPAND SRQU WATERFLOOD PROJECT
 WELL #53: LANGLIE MATTIX (SR/QN) POOL
 LOC: 1980'FNL & 660'FWL, SEC 2, T23S, R36E, LEA CO.
 COMPLETED 2/61 AS AN OIL PRODUCER.

RESULT OF WATER ANALYSES

TO: Mr. Steve Smith LABORATORY NO. 108927
P.O. Box 1710, Hobbs, NM SAMPLE RECEIVED 10-3-89
 RESULTS REPORTED 10-9-89

COMPANY ARCO Oil & Gas Company LEASE Seven Rivers Queen Unit
 FIELD OR POOL South Eunice
 SECTION BLOCK SURVEY COUNTY Lea STATE NM

SOURCE OF SAMPLE AND DATE TAKEN:
 NO. 1 Produced water - taken from Seven Rivers Queen Unit. 10-2-89
 NO. 2 Supply water - taken @ Texaco. 10-2-89

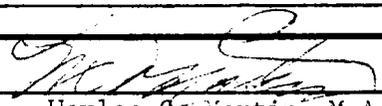
REMARKS: Queen

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	me/l	NO. 2	me/l
Specific Gravity at 60° F.	1.0302		1.0125	
pH When Received	7.41		6.73	
Carbonate as CO ₃	0	0.0	0	0.0
Bicarbonate as HCO ₃	1,507	24.7	988	16.2
Supersaturation as CaCO ₃	130		40	
Undersaturation as CaCO ₃	---		---	
Total Hardness as CaCO ₃	4,850		2,450	
Calcium as Ca	690	34.5	636	31.8
Magnesium as Mg	759	62.5	209	17.2
Sodium and/or Potassium	11,527	501.2	2,307	100.3
Sulfate as SO ₄	1,813	37.7	1,440	30.0
Chloride as Cl	18,998	535.7	3,657	103.1
Iron as Fe	1.1	0.0	0.24	0.0
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	35,294		9,238	
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen, Winkler				
XXX Sulfide - Total	155		410	
Resistivity, ohms/m at 77° F.	0.230		0.700	
Suspended Oil				

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks A comparison of the above results reveals no evidence of any incompatibility between these waters in any proportion. Therefore, these results indicate that the mixing of these waters should result in no precipitation or scaling potential.

Form No. 2
 CC: Mr. Dave Newell, Midland
Mr. Jim Nicholson, Midland
Mr. S.M. Bucaram, Plano
Mr. Mark Wilson, Dallas
Central File System, Midland

By 
 Waylan C. Martin, M.A.

**ARCO OIL & GAS COMPANY
SEVEN RIVERS QUEEN UNIT #32
APPLICATION TO INJECT WATER
TABULATION OF WELL DATA FOR AREA OF REVIEW
October 1989**

#32 INJECTION INTERVAL: 3680-3730 Perfs + 3756-3785' Open Hole.
All wells which have not been previously reported (in original application)
and which penetrate the injection interval are shown.

Operator	Lease Name	Well #	Well Type	Well Location	Date Drilled	Total Depth	Casing Size	Casing Depth	Cement Sacks/Top	Completion Interval	
ARCO	Seven Rivers Queen Unit (SRQU)	60	AC	2605'FSL	4/83	3925	8-5/8	305	200/circ	3689-3828	
				1280'FWL			5-1/2	3925			950/850
				34-22S-36E							
		61	AC	2440'FNL	3/83	3925	8-5/8	304	200/circ	3676-3817	
				2435'FWL			5-1/2	3925			950/226
				34-22S-36E							
		62	AC	1555'FSL	6/84	3903	8-5/8	333	200/circ	3650-3784	
				2480'FWL			5-1/2	3893			825/circ
34-22S-36E											
63	AC	1330'FSL	7/84	3911	8-5/8	319	200/circ	3685-3775			
		1310'FWL			5-1/2	3911			800/circ		
		34-22S-36E									
69	AC	1170'FNL	10/86	3900	8-5/8	310	300/circ	3683-3826			
		1140'FEL			5-1/2	3900			850/160		
		34-22S-36E									
72	AC	1160'FNL	11/86	3900	8-5/8	310	300/circ	3668-3816			
		2630'FWL			5-1/2	3900			900/circ		
		34-22S-36E									
73	AC	1450'FNL	12/87	3880	8-5/8	303	200/circ	3676-3850			
		1250'FWL			5-1/2	3880			900/circ		
		34-22S-36E									
75	AC	180'FSL	12/87	3886	8-5/8	295	175/circ	3692-3826			
		2620'FEL			5-1/2	3886			825/circ		
		34-22S-36E									

PROPOSED WELLS WITHIN AREA OF REVIEW:

ARCO	SRQU Proposed Producer	76	2475'FNL	11/89	3850	8-5/8	300	300/circ	3655-3805	
			1485'FEL			4-1/2	3850			1100/circ
			34-22S-36E							
ARCO	SRQU Proposed Producer	77	1570'FSL	11/89	3850	8-5/8	300	300/circ	3655-3805	
			1650'FEL			4-1/2	3850			1100/circ
			34-22S-36E							
ARCO	SRQU Proposed Producer	78	10'FSL	11/89	3850	8-5/8	300	300/circ	3655-3805	
			165'FEL			4-1/2	3850			1100/circ
			34-22S-36E							

Wells within area of review which data was previously submitted:

ARCO SRQU #20, 21, 23, 24, 25, 26, 31, 33, 34, 36, 37, 38, 46.

**ARCO OIL & GAS COMPANY
SEVEN RIVERS QUEEN UNIT #38
APPLICATION TO INJECT WATER
TABULATION OF WELL DATA FOR AREA OF REVIEW
October 1989**

#38 INJECTION INTERVAL: 3606-3712 Perfs + 3715-3785' Open Hole.
All wells which have not been previously reported (in original application)
and which penetrate the injection interval are shown.

Operator	Lease Name	Well #	Well Type	Location	Date Drilled	Total Depth	Casing Size	Casing Depth	Cement	Completion Interval
									Sacks/Top	
ARCO	Seven Rivers Queen Unit (SRQU)	57	AC	1500'FSL	1/82	3900	8-5/8"	1392	750/circ	3674-3740
				10'FEL			5-1/2"	3900	1300/circ	
		62	AC	1555'FSL	6/84	3903	8-5/8	333	200/circ	3650-3784
				2480'FWL			5-1/2	3893	825/circ	
		67	AC	1250'FNL	6/85	3872	8-5/8	325	200/circ	3661-3754
				1415'FEL			5-1/2	3872	1525/circ	
68	AC	160'FNL	9/86	3865	8-5/8	387	285/circ	3654-3797		
		1310'FWL			5-1/2	3865	1100/circ			
74	AC	1210'FNL	1/88	3880	8-5/8	297	175/circ	3686-3821		
		2390'FEL			5-1/2	3880	835/circ			
75	AC	180'FSL	12/87	3886	8-5/8	295	175/circ	3692-3826		
		2620'FEL			5-1/2	3886	825/circ			
Meridian	Otis Jones	2	AC	1650'FSL	1/82	3670	9-5/8	423	375/surf	3223-3561
				1750'FEL			7	3670	550/1650	
				34-22S-36E					calc	

PROPOSED WELLS WITHIN AREA OF REVIEW:

ARCO	SRQU Proposed Producer	76	2475'FNL	11/89	3850	8-5/8	300	300/circ	3655-3805
			1485'FEL			4-1/2	3850	1100/circ	
ARCO	SRQU Proposed Producer	77	1570'FSL	11/89	3850	8-5/8	300	300/circ	3655-3805
			1650'FEL			4-1/2	3850	1100/circ	
ARCO	SRQU Proposed Producer	78	10'FSL	11/89	3850	8-5/8	300	300/circ	3655-3805
			165'FEL			4-1/2	3850	1100/circ	
ARCO	SRQU Proposed Producer	79	1400'FNL	11/89	3850	8-5/8	300	300/circ	3645-3795
			10'FWL			4-1/2	3850	1100/circ	
			2-23S-36E						

Wells within area of review which data was previously submitted:

ARCO SRQU # 26, 30, 31, 32, 33, 36, 37, 39, 44, 45, 46, 47, 52.

**ARCO OIL & GAS COMPANY
SEVEN RIVERS QUEEN UNIT #44
APPLICATION TO INJECT WATER
TABULATION OF WELL DATA FOR AREA OF REVIEW
October 1989**

#44 INJECTION INTERVAL: 3652-3757 Perfs.

All wells which have not been previously reported (in original application) and which penetrate the injection interval are shown.

Operator	Lease Name	Well #	Well Type	Location	Date Drilled	Total Depth	Casing Size	Casing Depth	Cement Sacks/ Top	Completion Interval
ARCO	Seven Rivers Queen Unit (SRQU)	57	AC	1500'FSL 10'FEL 34-22S-36E	1/82	3900	8-5/8" 5-1/2"	1392 3900	750/circ 1300/circ	3674-3740
		64	WIW	2310'FNL 660'FWL 2-23S-36E	6/84	3816	8-5/8" 5-1/2"	335 3816	175/circ 875/circ	3654-3735
		67	AC	1250'FNL 1415'FEL 3-23S-36E	6/85	3872	8-5/8" 5-1/2"	325 3872	200/circ 1525/circ	3661-3754
		68	AC	160'FNL 1310'FWL 2-23S-36E	9/86	3865	8-5/8" 5-1/2"	387 3865	285/circ 1100/circ	3654-3797
		71	AC	1310'FNL 2480'FEL 2-23S-36E	10/86	3870	8-5/8" 5-1/2"	300 3870	400/circ 1200/circ	3630-3784
	Plugging Schematic Attached	53	P&A	1980'FNL 660'FWL 2-23S-36E	2/61	3800	9-5/8" 4-1/2"	417 3800	175/circ 285/2455	3627-3727

PROPOSED WELLS WITHIN AREA OF REVIEW:

ARCO	SRQU Proposed Producer	78		10'FSL 165'FEL 34-22S-36E	11/89	3850	8-5/8" 4-1/2"	300 3850	300/circ 1100/circ	3655-3805
ARCO	SRQU Proposed Producer	79		1400'FNL 10'FWL 2-23S-36E	11/89	3850	8-5/8" 4-1/2"	300 3850	300/circ 1100/circ	3645-3795

Wells within area of review which data was previously submitted:

John Hend State JG #4 Section 2, Unit L, T23S, R36E.

ARCO SRQU # 38, 39, 40, 42, 43, 45, 46, 52, 54

**ARCO OIL & GAS COMPANY
SEVEN RIVERS QUEEN UNIT #52
APPLICATION TO INJECT WATER
TABULATION OF WELL DATA FOR AREA OF REVIEW
October 1989**

#52 INJECTION INTERVAL: 3654-3772 Perfs.

All wells which have not been previously reported (in original application) and which penetrate the injection interval are shown.

Operator	Lease Name	Well #	Well Type	Location	Date Drilled	Total Depth	Casing Size	Casing Depth	Cement Sacks/Top	Completion Interval
ARCO	Seven Rivers Queen Unit (SRQU)	64	WIW	2310'FNL	6/84	3816	8-5/8"	335	175/circ	3654-3735
				660'FWL			5-1/2"	3816	875/circ	
				2-23S-36E						
		67	AC	1250'FNL	6/85	3872	8-5/8	325	200/circ	3661-3754
				1415'FEL			5-1/2	3872	1525/circ	
		68	AC	160'FNL	9/86	3865	8-5/8	387	285/circ	3654-3797
			1310'FWL	5-1/2			3865	1100/circ		
		74	AC	1210'FNL	1/88	3880	8-5/8	297	175/circ	3686-3821
			2390'FEL	5-1/2			3880	835/circ		
	Plugging Schematic Attached	53	P&A	1980'FNL	2/61	3800	9-5/8	417	175/circ	3627-3727
			660'FWL	4-1/2			3800	285/2455		
Rasm. Op.	State A/AC-1	119	WIW	1295'FSL	2/84	3780	8-5/8	459	275/surf	3637-3742
			1295'FEL	5-1/2			3780	875/surf		
			3-23S-36E					calc		

PROPOSED WELLS WITHIN AREA OF REVIEW:

ARCO	SRQU Proposed Producer	78		10'FSL	11/89	3850	8-5/8	300	300/circ	3655-3805
				165'FEL			4-1/2	3850	1100/circ	
ARCO	SRQU Proposed Producer	79		1400'FNL	11/89	3850	8-5/8	300	300/circ	3645-3795
				10'FWL			4-1/2	3850	1100/circ	
				2-23S-36E						

Wells within area of review which data was previously submitted:

Hendrix State JG #4 Section 2, Unit L, T23S, R36E.

Rasm. Op. State A/AC-1 #61, 63, 69.

ARCO SRQU # 38, 44, 45, 46, 47, 50, 51, 54.

LARGE FORMAT
EXHIBIT HAS
BEEN REMOVED
AND IS LOCATED
IN THE NEXT FILE

