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



October 19, 1989

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

ARCO OIL & GAS COMPANY APPLICATION TO EXPAND SRQU WATERFLOOD PROJECT SURFACE OWNERS

Opal M. Jones Wells #32 & #38 Styles Route Big Lake, TX 76932

John Dinwiddie (Lessee) Wells #44 & $\#52^*$ P.O. Box 302 Jal, NM 88252

* Note: Surface owner is the State of New Mexico.

3. Article Addressed to: Chevron USA, Inc. P. 0. Box 670 Hobbs, NM 83240 Registered Insured Registered COD Express Mail Registered Re	card from being returned to you. The reto and the date of delivery. For addition for fees and check box(es) for addition. Show to whom delivered, date (Extra charachar)	of and additions a addition. S. C. Usefficied Delivers
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Marathon Oil Company P. O. Box 552 Midland, Texas 79702 Midland,		
Type of Service: Registered Insured Certified COD Express Mail Return Receipt for Merchandise Always obtain signature of addressee or agent and DATE DELIVERED. 8. Addressee's Address (ONLY if requested and fee paid) Code of Delivery 10-13-89		
Midland, Texas 79702	Marathon Oil Company	
Midland, Texas 79702 Control Control Return Receipt for Merchandise	P. O. Box 552	
Express Mail 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) 7. Date of Delivery 10-13-89	Midland, Texas 79702	Cortified COD
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5. Signature — Address X 6. Signature — Agent 7. Date of Delivery 10-13-89 8. Addresse's Address (ONLY if requested and fee paid) 7. Date of Delivery	14.5	Always obtain signature of addressee
8. Signature – Agent 7. Date of Delivery 10-13-89	5 Signatura Addises	<u> </u>
6. Signature - Agent Total of Delivery 10-13-89	1	5. Addressee's Address (ONLY if requested and fee paid)
Date of Delivery 10-13-89		4
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10-13-89	7 Date of Delivery	-
PS Form 3811, Mar. 1988 + 11 9 0 9 0 1000-212-005 DOMESTIC DESCRIPTION	1 /10-13-89	
	PS Form 3811 Mer 1088 + 11 C C D O 4000 040	-865 DOMESTIC RETURN RECEI

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3. Article Addressed to:	4. Article Number
Meridian Oil, Inc.	P 477 984 505
21 Desta Drive	Type of Service:
Midland, Texas 79705	Registered Linsured
,	Cortified COD Express Mail Return Receipt
	Tor Merchandise
	Always obtain signature of addressee or agent and DATE DELIVERED.
5. Signature — Address	8. Addressee's Address (ONLY if
X	requested and fee paid)
6. Signature - Agent	7
× /critelle	4
7. Date of Delivery	
PS Form 3811, Mar. 1988 * U.S.G.P.O. 1988-212	1 BOALESTIA DETILON DESCRIPTION
0.5,G.F.O. 1968-212	-865 DOMESTIC RETURN RECEI
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card from being returned to you. The return receipt fee will a	provide you the name of the person delivere
to and the date of delivery. For additional fees the following for fees and check box(es) for additional service(s) reques	ited.
1. Show to whom delivered, date, and addressee's ac (Extra charge)	idress. 2. Restricted Delivery (Extra charge)
3. Article Addressed to:	4. Article Number
Rasmussen Operating, Inc.	P 046 661 750
6 Desta Drive, Suite 5850	Type of Service:
Midland, Texas 79705	Registered Insured
	X Certified COD
	Express Mail Return Receipt for Merchandise
	Always obtain signature of addressee or agent and DATE DELIVERED.
5. Signature — Address	8. Address (ONLY if
x	requested and fee paid)
6. Signature - Agent	-
x Your Fraken	
7. Date of Delivery	1
10-16-88	
PS Form 3811, Mar. 1988 * U.S.G.P.O. 1988-212	-865 DOMESTIC RETURN RECEI
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3. Article Addressed to:	4. Article Number
Texaco Inc.	P 477 984 508
P. O. Box 3109	Type of Service:
Midland, Texas 79702	Registered Insured
	COD Return Receipt
. •	Express Mail Return Receipt for Merchandise
	Always obtain signature of addresses
	or agent and DATE DELIVERED.
5. Signature — Address	8, Addressee's Address (ONLY if requested and fee paid)
X	
6. Signature – Agent	1
x 2 dy	4
7. Date of Delivery	
1 - 1 - 1 - 1 - 1	1

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 , 19 89 and ending with the issue dated
October 8 , 19.89
Publisher.
Sworn and subscribed to before
me thisday of
Delover, 1989 Limela a. Calo
Notary Public.
My Commission expires
July 12 , 19 93
(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.

Notice is hereby given that ARCO Oil and Gas Company has filed an application to inject water with the first in the company has filed an application to inject water with the first in the

OIL CONSERVATION DIVISION

POST OFFICE BOX 2008 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87501 FORM C-108 Revised 7-1-81

211994	ATION FOR AUTHORIZATION TO INJECT
Ι.	Purpose: X Secondary Recovery Pressure Maintenance Disposal Storage Application qualifies for administrative approval? X 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.
ΙV.	Is this an expansion of an existing project? \overline{x} yes \overline{x} no If yes, give the Division order number authorizing the project \underline{x} -4589 .
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. Previously submitted that on new wells is attached. 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.).
III.	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
х.	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.
III.	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 Wellis Date: 10-13-89
submi	ne information required under Sections VI, VIII, X, and XI above has been previously itted, it need not be duplicated and resubmitted. Please show the date and circumstance ne earlier submittal. <u>Initial application to inject in 1973</u> . 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.

- 8. 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

Decretor Dalport Oil Corp. Lease Otis L. Jones "P" 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)				Date 1-24-21					
County, New Mexico. G. L. Elevation 3497.1 Name of Producing Formation Pool Dedicated Acreage (Nate: All distances must be from outer boundaries of Section) Rew with name; Seven Rivers Gruen Unit 3 Any Wills Is this Well a Dual Comp. ? Yes No 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 dedicated acreage? Yes No Date Surveyed 128-57 Registered Polessional Engineer and/or	Operator Dair	ort Oil Corp.	Lease	Otis L	. Jones "B"				
Name of Producing Formation Pool Dedicated Acreage (Note: All distances must be from outer boundaries of Section) Note: All distances must be from outer boundaries of Section	Well No. 1	Section 34	Township	22 S	Range 36	E NMPM			
Name of Producing Formation Pool Dedicated Acreage (Note: All distances must be from outer boundaries of Section) Adw will name; Seven Rivers Guan Unit 3 Airicy Willia 10-5-89 Is this Well a Dual Comp. ? YesNo 1. If the answer to Question 1 is yes, are there any other dualty completed wells within the dedicated acreage? YesNo Nome Pool Dedicated Acreage Adw will Pool Dedicated Acreage No will Pool Dedicated Acreage No will Pool Dedicated Acreage No will Pool Dedicated Acreage Now will Pool Dedicated Acreage No will be acreag	Located 2310	Feet From	South Line,	2310	Feet From_	East Line,			
(Note: All distances must be from outer boundaries of Section) New well name; Seven Rivers Gruen Unit* And Wellia 10.5-89 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 dedicated acreage? Yes No Position Position Registered Polessional Engineer and/or Registered Polessional Engineer and/or	Lea	Cou	nty, New Mexico.	G. L	Elevation 3	497.1			
SCALE: 17-1000° Is this Well a Dual Comp. ? 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 dedicated acreage? Yes No Date Surveyed 128-57 Position Representing Registered Professional Engineer and/or	Name of Producir	ng Formation	Pool		Dedicated	Acreage			
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SCALE: 1-1000' Is this Well a Dual Comp. ? 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 dedicated acreage? Yes No Date Surveyed 1-28-57 Name Position Representing Registered Professional Engineer and/or			1						
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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 dedicated acreage? Yes No . Date Surveyed 1-28-57 Position Page Professional Engineer and/or		ļ.							
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any other dually completed wells within the dedicated acreage? Yes No best of my knowledge and belief. Name Date Surveyed 1-28-57 Position Registered Professional Engineer and/or	1. If the answer	to Question l is ye							
Vame Date Surveyed 1-28-57 Position Registered Professional Engineer and/or	any other dually completed wells within the			at the sam	ne are true and	correct to the			
Position Registered Professional Engineer and/or	dedicated acre	eage ? YesNo_	be.	st of my l	cnowledge and	belief.			
Position Registered Professional Engineer and/or	Name		Da	ate Survey	ed1-28-	57			
					loka le	West			
Land Daireyot	Address			egistered and Survey		Engineer and/or			

N. .. MEXICO OIL CONSERVATION COMMISSION

Well Location and Acreage Dedication Plat

bection A.	Date 7-12-57
perator <u>Dalport Oil Corp.</u>	Lease_ Otis L. Jones "C"
Operator <u>Dalport Oil Corn.</u> Well No. <u>2</u> Unit Letter P Section	Township 22 South Range 36 East NMPM
ocated 660 Feet From South	Line, 990 Feet From East Line
County <u>Lea</u> G. L. Elevation ame of Producing Formation Quegan	Pool South Eurice Acres
Is the Operator the only owner* in t	he dedicated acreage outlined on the plat below?
Yes NoX	
consolidated by communitization agre	," have the interests of all the owners been ement or otherwise? Yes No If answer is
yes, Type of Consolidation / 22/2	rating of the
If the answer to question two is/"no	," list all the owners and their respective interests
below:	
Cwner	Land Description
Main this Chi	20110 20 301 1pt 1011
dayout lis Corp.	
Citeis	
ection.B	
	This is to certify that the
	information in Section A
	above is true and complete
	to the best of my knowledge
i	and belief.
	(Operator)
	(Representative)
,	
	Address
3	
new t	well name: n Rivers Queen Unit #38 This is to certify that the
Sever	n Rivers Queen Unit #38 This is to certify that the well location shown on the
Cind	well location shown on the plat in Section B was plotted
	q ' I fom field notes of actual
i	surveys made by me or under my supervision and that the
	same is true and correct to
	the best of my knowledge and
	belief.
·	0- 990 Date Surveyed 7-/2-57
	3 John W West
	Registered Professional
110 640 920 1300 1400	Engineer and/or Land Surveyor.
250 950 1329 1640 1980 2310 1640 2dds	
(See instructions for	completing this form on the reverse side)

MANA MEXICO GIL CONSERVATION COMMISSION

Meli Lication and Acreage Dedication Flat HORES OFFICE OFF

Gulf Oil Co	ter D Section 2 Townships North Line, 660	nda NCT-I 23 PH 3:53
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ily Lea		
of reducing formation to	iun Cason Poblionik (Arkir's in the dedicated abreage	Design Xev-1 (1)
Yes A No		COCTAINS OF THE DIAM DEIGN
if the answer to que	stion one is "no," have the interest	
consc.idated by comm "yes," Type of Johso	unitization <mark>agreement</mark> or otherwise? Disation	ies If answer is
If the answer to que	stion two is "no," list all the owner	ers and their respective interest
telow:		
<u>Cwner</u>	<u>Lang J</u>	<u>Jescrittion</u>
ion. B		
Ç-099 - 7	new well name	
99	SEVER Rivers Bugan Unit #	44 Information in Section A
040	1: 40 COA:	stove is true and complete
	Condy Willia 10-4-89	to the best of my knowledge
! :	I	
	- المنظم سيسالك الماد المنشد عداك	Oulf Oil Corporation
		(Cherator)
i		ALF. TAYLOR
	!	siet. Area Production Superintende
1		Box 2167 - Nobbe, Rew Hexies
i 1	·	Address
• • •		
	,	This is to certify that the
· ;	!	well location shown on the
, 		plat in Section B was plott
1		rom 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 an
	1	Date Surveyed 4-26-58
		and white
<u>, </u>		Registered Professional
i		Engineer and/or Land Survey

NEW MEXICO OIL CONSERVATION COMMISSION

FORM C-128 Revised 5/1/57

WELL LOCATION AND ACREAGE DEDICATION PLAT

	SEE IN	TRUCTIONS FOR COM			THE REV	ERSE SIDE		220
0			SECTION	Α		1		
Operator Albant /	0001-1-	Onometas	Lease	nolair	9+0+0	uBu	14 14 2	1-0
		Operator		HOTAIL		ъ.		453
Unit Letter Secti	∞ 3	Township 23 South	Range	36 East	County	Lea		
Actual Footage Location 1,980 feet		North line and	660	l fee	t from the	East	line	
Ground Level Elev.	Producing Fo	ormation Queen &	Pool				Dedicate LAcre	are
3,476'	L. Sev	en Rivers]	Langlie	- Matt	ix	40	Acres
uho has the right to another. (65-3-29 2. If the answer to ques wise? YESN	drill into and (e) NMSA 19 stion one is '	the dedicated acreage of to produce from any poods Comp.) 'no,'' have the interests fanswer is "yes," Type 'no,'' list all the owners	of all the over of Consolid	ropriate the p wners been co	production e onsolidated	ither for hi	med to be too brins	elf and
Owner			1	and Descript	ioc			
						-		
	 	SECTION B				٦	CERTIFICATION	n N
				,086/-	-660′→	in (1)	The hear of makes	perator
		Ser	len Rivers Gindy W	new well	l name: Init #52 -5-89	Date Su Registe	rveyed 8, 19 red Professional	factual factual factual factual factual factual factual factual factor f
	<u> </u>			<u>i.</u>		1	17 No. 3069	2 /
	1770 1160	1040 2240 2740 27	200 4600	(000	500	Cert	No.	
0 330 660 990	1320 1650 1		000 1500		500		/ / 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
- 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'.

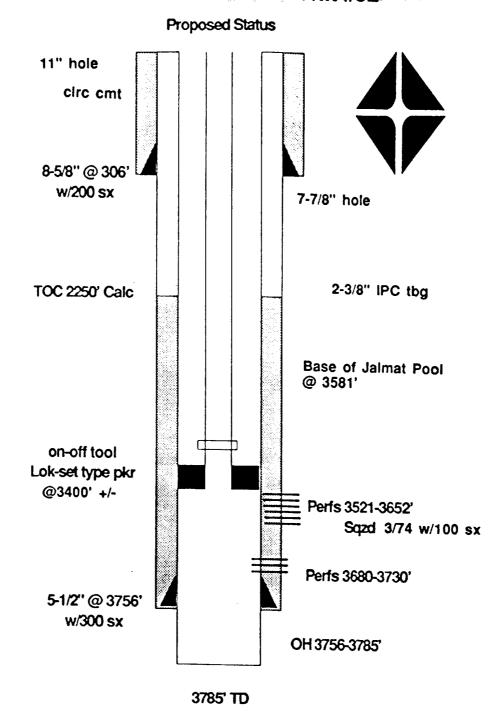
VII. PROPOSED OPERATION

- 1) Average daily rate of fluid to be injected: 400 BWPD.
- 2) The system is closed.
- 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



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
- 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'.

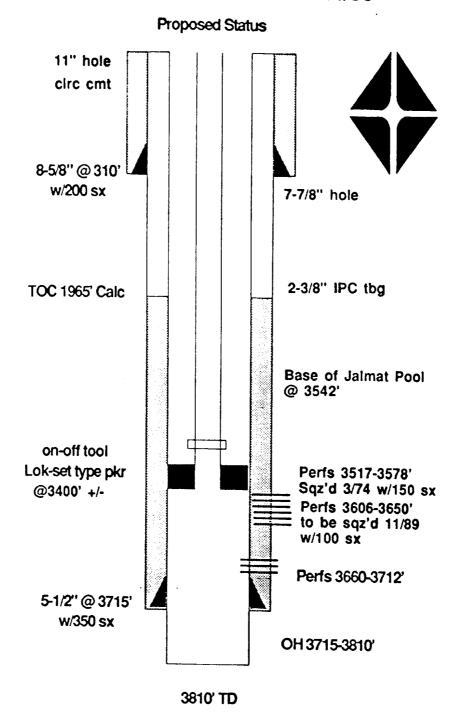
VII. PROPOSED OPERATION

- 1) Average daily rate of fluid to be injected: 400 BWPD.
- 2) The system is closed.
- 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



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

- 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'.

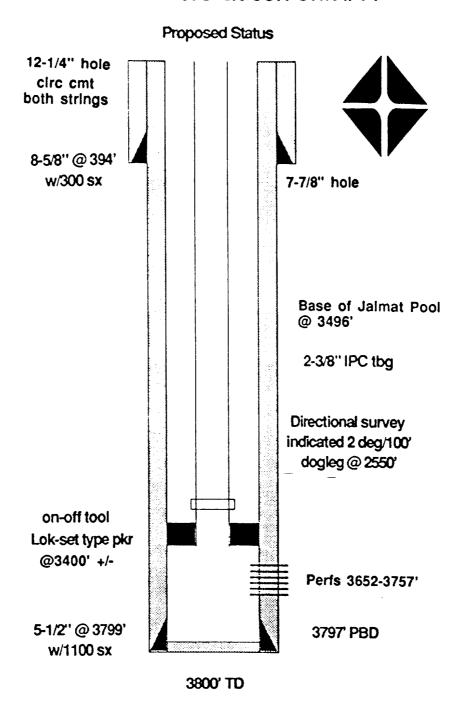
VII. PROPOSED OPERATION

- 1) Average daily rate of fluid to be injected: 400 BWPD.
- 2) The system is closed.
- 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



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

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'.

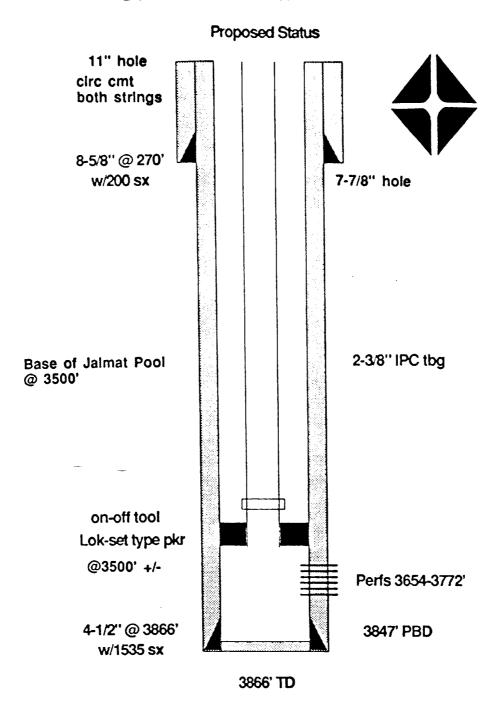
VII. PROPOSED OPERATION

- 1) Average daily rate of fluid to be injected: 400 BWPD.
- 2) The system is closed.
- 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

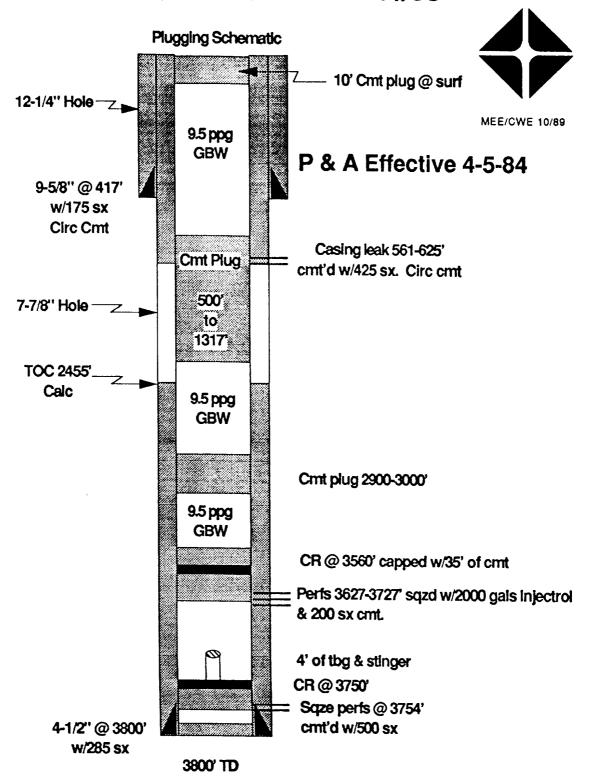
Acidize perfs 3654-3772 w/5000 gals 15% NEFE HCl w/5% micellar solvent @ 2-3 bpm @ 3000 psi in 2 stages using graded rock salt as a diverting agent between stages.

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



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.

P O BOX 1468 MONAHANS TEXAS 79756 PH 843-3234 OR 563-1040

IRC. 709 W INDIANA MIDLAND, TEXAS 79701 PHONE 683-4521

RESULT OF WATER ANALYSES

Mr. Chave C-14h		LABORATORY NO	. 108927				
To: Mr. Steve Smith		SAMPLE RECEIVED 10-3-89					
P.O. Box 1710, Hobbs, NM		RESULTS REPORT	rep 10-9-89				
1700 011 0 0							
COMPANYARCO 011 & Gas Compa	ny LEASE	<u>Seven Rive</u>	rs Queen Unit				
FIELD OR POOL	South Euni	ce					
SECTION BLOCK SURVEY	COUNTY	Lea	STATENM				
SOURCE OF SAMPLE AND DATE TAKEN:							
NO. 1 Produced water - taken f	rom Seven Rivers	Queen Unit.	10-2-89				
							
Supply water taken & T	10 2 90						
NO. 2 Supply water - taken @ T	exaco. 10-2-69						
REMARKS:	Quee						
CHEM	ICAL AND PHYSICAL	PROPERTIES					
	NO. 1	me/I	NO. 2	me/I			
Specific Gravity at 60° F.	1.0302		1.0125				
pH When Received	7.41		6.73				
Carbonate as CO3	0	0.0	0	0.0			
Bicarbonate as HCO3	1,507	24.7	988	16.2			
Supersaturation as CaCO3	130		40				
Undersaturation as CaCO3							
Total Hardness as CaCO3	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 SO4	1,813	37.7	1,440	30.0			
Chloride as Ci	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 Droxide, Calculated							
Dissolved Oxygen, Winkler							
XXXXXXXXXSulfide - Total	155		410				
Resistivity, ohms/m at 77° F.	0.230		0.700				
Suspended Oil							
Additional Davis Add Barris A GO	Results Reported As Milligr	ams Per Liter					
Additional Determinations And Remarks A CO	mparison of the	above results					
any incompatibility between th	ese waters in an	y proportion.	Therefore, th	ese results			
indicate that the mixing of the ing potential.	ese waters shoul	d result in n	o precipitation	or scal-			
THE POSERICIAL.							
							
		···					
			()				

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 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 Seven Rivers	#	Well Type	Location 2605'FSL	Date Drilled 4/83	Total Depth	Size	Casing Depth	Cement Sacks/ Top 200/circ	Completion Interval 3689-3828
Alloo	Queen Unit (SRQU)		7.0	1280'FWL 34-22S-36E		3323	5-1/2		950/850	
		61	AC	2440'FNL 2435'FWL 34-22S-36E	3/83	3925	8-5/8 5-1/2		200/circ 950/226	3676-3817
		62	AC	1555'FSL 2480'FWL 34-22S-36E	6/84	3903	8-5/8 5-1/2		200/circ 825/circ	3650-3784
		63	AC	1330'FSL 1310'FWL 34-22S-36E	7/84	3911	8-5/8 5-1/2		200/circ 800/circ	3685-3775
		69	AC	1170'FNL 1140'FEL 34-22S-36E	10/86	3900	8-5/8 5-1/2		300/circ 850/160	3683-3826
		72	AC	1160'FNL 2630'FWL 34-22S-36E	11/86	3900	8-5/8 5-1/2		300/circ 900/circ	3668-3816
		73	AC	1450'FNL 1250'FWL 34-22S-36E	12/87 E	3880	8-5/8 5-1/2		200/circ 900/circ	3676-3850
		75	AC	180'FSL 2620'FEL 34-22S-36E	12/87 <u>=</u>	3886	8-5/8 5-1/2		175/circ 825/circ	3692-3826
PROP	OSED W	ELLS	W	THIN AR	EA O	F RE\	/IEW:			
ARCO	SRQU Proposed Producer	76		2475'FNL 1485'FEL 34-22S-368	11/89 =	3850	8-5/8 4-1/2		300/circ 1100/circ	3655-3805
ANCO	SHQU Proposed Producer			1570°FSL 1650'FEL 34-22S-36I	11/89	3850	8-5/8 4-1/2	300 3850		3655-3805
ARCO	SRQU Proposed Producer	78		10'FSL 165'FEL 34-22S-36	11/89 E	3850	8-5/8 4-1/2	300 3850		3655-3 805

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

Cement

#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.

							^	0:	Certelli Completion
Operator	Lease	Well	Well	Location	Date	Total	_	Casing	
	Name	#	Type		Drilled	Depth	Size	Depth	
ARCO	Seven Rivers	57	AC	1500'FSL	1/82	3900	8-5/8"		750/circ 3674-3740
	Queen Unit			10'FEL			5-1/2"	3900	1300/circ
	(SRQU)			34-22S-36E					
									000/-1 0050 0704
		62	AC	1555'FSL	6/84	3903	8-5/8		200/circ 3650-3784
				2480'FWL			5-1/2	3893	825/circ
				34-22S-36E					
								225	000/sins 0004 0754
		67	AC	1250'FNL	6/85	3872	8-5/8		200/circ 3661-3754
				1415'FEL			5-1/2	3872	1525/circ
				3-23S-36E					
		00	40	160'FNL	9/86	2065	8-5/8	387	285/circ 3654-3797
		00	AC	1310'FWL	3/00	3000	5-1/2		1100/circ
				2-23S-36E			0 1/2	0000	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
				2-200-00L					
		74	AC	1210'FNL	1/88	3880	8-5/8	297	175/circ 3686-3821
				2390'FEL			5-1/2	3880	835/circ
				3-23S-36E					
		75	AC	180'FSL	12/87	3886	8-5/8	_	175/circ 3692-3826
				2620'FEL			5-1/2	3886	825/circ
				34-22S-36E					
								400	075/
Meridian	Otis Jones	2	AC	1650'FSL	1/82	3670	9-5/8	423	375/surf 3223-3561
				1750'FEL	_		7	3670	
				34-22S-36E	:				calc
DDOD	00ED WE		14/171)E\/IE	:\A/-		
	OSED WE							200	300/circ 3655-3805
ARCO	SRQU	7€	į	2475'FNL	11/89	3850	8-5/8	3850	
	Proposed			1485'FEL	_		4-1/2	3030	1 100/Gillo
	Producer			34-22S-36E	•				
ARCO	SRQU	77	,	1570'FSL	11/89	3850	8-5/8	300	300/circ 3655-3805
ANCO	Proposed	,,		1650'FEL	11,00		4-1/2		1100/circ
	Producer			34-22S-36F	=			•	
	Floducei			04 EE0 00.	-				
ARCO	SRQU	78	<u>.</u>	10'FCI	44/90	2050	Q.E/Q	300	300/circ 3655-3805
	Proposed			165'FEL			4-1/2	3850	1100/circ
	Producer			34-22S-36I	Ε				
									00045 0705
ARCO	SRQU	79	•	1400'FNL	11/89	3850	8-5/8		300/circ 3645-3795
	Proposed			10'FWL			4-1/2	3850	1100/circ
	Producer			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.

							Cement			
Operator	Lease	Well	Weil	Location	Date	Total	Casing	Casing	Sacks/	Completion
•	Name	#	Type		Drilled	Depth	Size	Depth	Тор	Interval
ARCO	Seven Rivers	57	AC	1500'FSL	1/82	3900	8-5/8"	1392	750/circ	3674-3740
	Queen Unit			10'FEL			5-1/2"	3900	1300/cir	C
	(SRQU)			34-22S-36E						
		64	wiw	2310'FNL	6/84	3816	8-5/8"			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/cir	c
				3-23S-36E						
		68	AC	160'FNL	9/86	3865	8-5/8			3654-3797
				1310'FWL			5-1/2	3865	1100/cir	c
				2-23\$-36E						
		71	AC	1310'FNL	10/86	3870	8-5/8			3630-3784
				2480'FEL			5-1/2	3870	1200/ci	c
				2-23S-36E						
	Plugging	53	P&A	1980'FNL	2/61	3800	9-5/8	417	175/cird	3627-3727
	Schematic			660'FWL			4-1/2	3800	285/245	55
	Attached			2-23S-36E						
PROPOSED WELLS WITHIN AREA OF REVIEW:										
ARCO	SRQU	78		10'FSL	11/89	3850	8-5/8	300	300/cird	3655-3805
711.00	Proposed	. •		165'FEL	,		4-1/2	3850	1100/ci	rc
	Producer			34-22S-36	Ξ					
ARCO	SRQU	79	,	1400'FNL	11/89	3850	8-5/8	300	300/cir	3645-3795
ANCO	Proposed	78	,	10'FWL	1 1/03		4-1/2		1100/ci	
	Producer			2-23S-36E						

Wells within area of review which data was previously submitted:

John Hend State JG #4 Section 2. Unit 1. Tags. Does

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.

							Cement			
Operator	Lease	Well	Well	Location	Date	Total	Casing	Casing	Sacks/	Completion
	Name	#	Type		Drilled	Depth	Size	Depth	Top	Interval
ARCO	Seven Rivers	64	WIW	2310'FNL	6/84	3816	8-5/8"	335	175/circ	3654-3735
	Queen Unit			660'FWL			5-1/2"	3816	875/circ	
	(SRQU)			2-23S-36E						
		67	AC	1250'FNL	6/85	3872	8-5/8			3661-3754
				1415'FEL			5-1/2	3872	1525/cir	С
				3-23S-36E						
		68	AC	160'FNL	9/86	3865	8-5/8	387	285/circ	3654-3797
				1310'FWL			5-1/2	3865	1100/cir	c
				2-23S-36E						
		74	AC	1210'FNL	1/88	3880	8-5/8	297	175/circ	3686-3821
				2390'FEL			5-1/2	3880	835/circ	
				3-23S-36E						
	Plugging	53	P&A	1980'FNL	2/61	3800	9-5/8	417	175/circ	3627-3727
	Schematic			660'FWL			4-1/2	3800	285/245	55
	Attached			2-23S-36E						
Rasm. Op	. State A/AC-1	119	WIW	1295'FSL	2/84	3780	8-5/8	459	275/sur	f 3637-3742
•				1295'FEL			5-1/2	3780	875/sur	f
				3-23S-36E					calc	
PROPOSED WELLS WITHIN AREA OF REVIEW:										
ARCO	SRQU	78	}	10'FSL	11/89	3850	8-5/8	300		3655-3805
	Proposed			165'FEL			4-1/2	3850	1100/ci	rc
	Producer			34-22S-36E	=					

1400'FNL 11/89 3850 8-5/8 300 300/circ 3645-3795

4-1/2 3850 1100/circ

Wells within area of review which data was previously submitted:

10'FWL

2-23S-36E

79

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

Rasm. Op. Ctate A/AC=7#61, 00, 60.

SRQU

Proposed

Producer

ARCO

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

