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

## OIL CONSERVATION DIVISION RECEIVED



'89 OCT 25 AM 9 27

October 19, 1989

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

RF.

Administrative Approval of Non-Standard Oil Well Locations

Seven Rivers Queen Unit #76, 77, & 78

South Eunice Oil Pool Lea County, New Mexico

Dear Mr. LeMay,

ARCO Oil and Gas Company respectfully requests administrative approval to drill the Seven Rivers Queen Unit No. 76, 77, and 78, proposed producing wells in an active waterflood unit, at non-standard locations. The proposed locations are as follows:

#76:

2575' FNL & 1590' FEL

Unit Letter G

#77:

1570' FSL & 1650' FEL

Unit Letter J

#78:

160' FSL & 315' FEL

Unit Letter P

ALL IN SECTION 34, Township 22 South, Range 36 East Lea County, New Mexico

The wells are proposed to a total depth of 3850 ft to test the Seven Rivers and Queen formations within the vertical limits of the South Eunice (Seven Rivers/ Queen) Oil Pool.

In ARCO's opinion, completion of the wells at the proposed locations will provide an efficient production and injection pattern within the secondary recovery project. These wells are expected to recover unswept oil by increasing the amount of floodable pay and by increasing the injection efficiency due to increased continuity.

The proration units which offset these proposed wells are all within the Seven Rivers Queen Unit, and therefore, no offset operators are to be notified of this request. Wells # 77 & 78 lie on the same 40 acre tract as Meridian's Otis Jones #2 and #1, respectively. Therefore, they are being notified of this application by certified mail. A copy of the return receipt will be forwarded when received. Attached are plats showing the SRQU and the proposed wells' locations.

If you need any further information regarding this request, please call me at (915) 688-5546.

Thank you for your consideration.

Very truly yours,

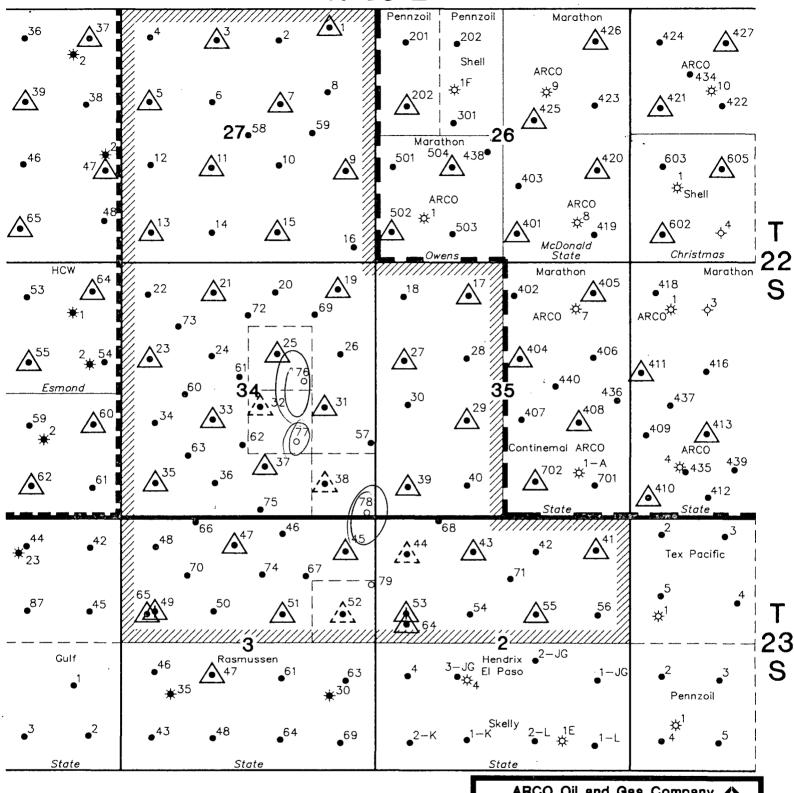
Cindy W. Ellis Senior Engineer

CC: NMOCD District 1 Office

P.O. Box 1980

Hobbs, New Mexico 88240

Meridian Oil Inc. 21 Desta Drive Midland, TX 79705





Submit to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

## State of New Mexico Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

Form C-102 Revised 1-1-89

DISTRICT I P.O. Box 1980, Hobbs, NM 88240

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P.O. Box 2088 Santa Fe, New Mexico 87504-2088

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator							Lease					Well No.
ARCO Oil & Gas Company				S.R.Q.U.				76				
Unit Letter	Secti	on	T	ownship			Range				County	
G		34		22	South		36 I	East		NMPM	L	ea
Actual Footage Loca	tion o	f Well:		-							•	
2575	feet 1		Nor		line a	and	159	90	fe	et from	the Ea	ast line
Ground level Elev.		Produci	ng Fo	ormation			Pool					Dedicated Acreage:
3510.0		Seven I	Riv	ers/Qu	een		Eunice	, South	ı			40 Acres
1. Outline	the a				well by colored	d pend	il or hachure	marks on the	plat below.			
2. If more	2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).											
3. If more	than	one lease of di	iffere	nt ownersh	ip is dedicated t	to the	well, have th	e interest of a	il owners bee	n consoli	idated by con	nmunitization,
		orce-pooling, e		_				** .				
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			to th	e well unti	all interests ha	ve be	en consolidat	ed (by comm	unitization, u	nitization	, forced-pool	ing, or otherwise)
or until a	non-st	andard unit, el	imin	ting such i	nterest, has bee	n appi	roved by the	Division.			·	
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Submit to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

## State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

#### OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT II P.O. Drawer DD, Artesia, NM 88210

DISTRICT I P.O. Box 1980, Hobbs, NM 88240

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator				Lease				Weil No.
ARCO	Oil & Gas	Company		S.R.	0.11.			77
		Township		Range			County	<u> </u>
Unit Letter	Section			•	F1 .		1 -	
J	34	22 Sout	: h	36	East	NMPM	Le	a
Actual Footage Loca	ation of Well:			-				
1570	feet from the	South	line and	1650		feet from t	he East	line
Ground level Elev.		g Formation		Pool				Dedicated Acreage:
	1	_		Funice	、 c			40
3513.9	the acreage dedicate	Rivers/Que		Eunice		N -1		Acres Acres
2. If more 3. If more unitizat  If answer	than one lease is ded than one lease of dif- tion, force-pooling, etc Yes	ferent ownership is 17 No If ans	outline each and dedicated to the	identify the ow well, have the	nership thereof () interest of all ow onUnit	both as to workin ners been consoli ization		
No allows	if neccessary.					ation, unitization,	forced-pooling	g, or otherwise)
or until a i	non-standard unit, eli	mnating such intere	est, nas been app	proved by the Di	IVISION.			<del></del>
	Part	of Seven	Rivers Q	ueen Uni		Pr Pc	I hereby ontained herei est of my known gnature Cind Cind Destion Senic company ARCO	OR CERTIFICATION  certify that the information in true and complete to the ledge and belief.  Ly W. Ellis  Or Engineer  OR CERTIFICATION
			SRQU #	· · · · · · · · · · · · · · · · · · ·	2310' n-Otis Jo Pool 17	nes #2	hereby certify n this plat w ctual surveys upervison, and orrect to the	y that the well location show as plotted from field notes made by me or under n d that the same is true as best of my knowledge as
			2310	77	1650			ober 10, 1989
			1650'	.029.		S		NO SUR STORY 67
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Submit to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

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DISTRICT III 1000 Rio Brazos Rd., Azzec, NM 87410

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator		*****				Lease				······	Weil No.	
ARCO Oil & Gas Company					S.R.Q.U.					78		
Unit Letter	Section		Township			Range			C	cunty		
P	34	}	22	Souti	h	3	6 East	N	иРМ	Le	а	
Actual Footage Loca	tion of W	ell:										
315	feet from	the	East		line and	16	0	feet	from the	South	line	
Ground level Elev.		Producing	Formation			Pool					Dedicated Ac	reage:
3491.3		Seven	Rivers	s/Que	een	Eun	ice, S.				40	Acres
2. If more	than one	lease is dedic	ated to the	well, ou	zline each and	identify the	ownership th	the plat below.  nereof (both as to v  f all owners been c	_			
unitizat  If answer this form i No allowa	ion, force Yes is "no" lis if neccess ible will b	pooling, etc.?  t the owners ary.  assigned to	No and tract de the well un	If ansv	ver is "yes" ty ns which have	pe of consol actually be seen consolid	idation U	nitization ed. (Use reverse si munitization, unitiz	de of			)
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					SR	QU #3 <u>8</u>	Oti Jal	idian s Jones #1 mat Pool 990' 990'	Date Sign Prof	Surveyed Octob ature & Sea	er 11, 1	
0 330 660	990 132	0 1650	1980 2310	2640	200	0 150	0 1000	500 0			CHN M. N	ES

## SOUTH EUNICE POOL LANGLIE MATTIX POOL (Atlantic Seven Rivers-Queen Unit Waterflood) Lea County, New Mexico

Order No. R-4589, Authorizing Atlantic Richfield Company to Institute a Waterflood Project in the Seven Rivers-Queen Unit Area in the South Eunice and Langlie Mattix Pools, Lea County, New Mexico, July 13, 1973.

Application of Atlantic Richfield Company for a Waterflood Project, Lea County, New Mexico.

CASE NO. 5017 Order No. R-4589

#### ORDER OF THE COMMISSION

BY THE COMMISSION: This cause came on for hearing at 9 a.m. on June 27, 1973, at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this 13th day of July, 1973, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

#### FINDS:

- (1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, Atlantic Richfield Company, seeks authority to institute a waterflood project in the Seven Rivers-Queen Unit Area by the injection of water into the Seven Rivers and Queen formations through 28 injection wells in Sections 27, 34, and 35, Township 22 South, Range 36 East, NMPM, South Eunice Pool, and Sections 2 and 3, Township 23 South, Range 36 East, NMPM, Langlie Mattix Pool, Lea County, New Mexico.
- (3) That applicant proposes to inject water through tubing, set in a packer into the Seven Rivers or Queen formation through perforations or the open hole; the annulus to be filled with inert fluid with a pressure gauge at the surface.
- (4) That the wells in the project area are in an advanced state of depletion and should properly be classified as "stripper" wells
- (5) That the proposed waterflood project should result in the recovery of otherwise unrecoverable oil, thereby preventing waste.
- (6) That the subject application should be approved and the project should be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations.

#### IT IS THEREFORE ORDERED:

(1) That the applicant, Atlantic Richfield Company, is hereby authorized to institute a waterflood project in the Seven Rivers-Queen Unit Area, South Eunice and Langlie Mattix Pools, by the injection of water into the Seven Rivers and Queen formations through the following-described wells:

### LEA COUNTY, NEW MEXICO TOWNSHIP 22 SOUTH, RANGE 36 EAST, NMPM

Well Name	Well No.	Location	Section
Gulf A. L. Christm	125		
"A"	6	330' FNL & 990' FE	L 27
ARCO Shipley "A"		660' FNL & 2080' FW	
ARCO Shipley "A"		1980' FNL & 660' FW	
Gulf A. L. Christm			
"A"	4	1980' FNL & 1980' FE	L 27
A. L. Christmas "	A'' 8	1980' FSL & 660' FE	L 27
ARCO Mattie Shipl		1980' FSL & 1980' FW	/L 27
ARCO Mattie Shipl		660' FSL & 660' FW	/L 27
Gulf A. L. Christm	as		
"A"	7	660' FSL & 1980' FE	L 27
ARCO R. M. Jones	3	660' FNL & 1980' FW	/L 35
ARCO C. Jones	6	660' FNL & 660' FE	L 34
ARCO C. Jones	3	660' FNL & 1980' FW	L 34
ARCO C. Jones	9	1980' FNL & 660' FW	
ARCO C. Jones	8	1980' FNL & 1980' FE	L 34
ARCO R. Jones	. 5	1980' FNL & 660' FW	L 35
Gackle R. Jones	3	1980' FSL & 1980' FW	'L 35
ARCO O. L. Jones			
"C"	1	2310' FSL & 990' FE	
ARCO Hale	2	1980' FSL & 1980' FW	
ARCO Hale	5	660' FSL & 660' FW	'L 34
ARCO O. L. Jones			
"B"	2	990' FSL & 2310' FE	
Gackle R. Jones	4	660' FSL & 660' FW	'L 35
TOWNSHIP	23 SOUTH	I, RANGE 36 EAST, NM	РМ
Gulf Janda "I" Sta	te 4	660' FNL & 660' FE	L 2
Gulf Janda ''I'' Sta		660' FNL & 1980' FW	
Gackle Sinclair Sta		000 1112 4 1550 1	., .
"B"	7	660' FNL & 660' FE	L 3
Gackle Sinclair Sta	•	000 1112 4 000 12	
"B"	6	660' FNL & 2310' FW	/L 3
Gackle Sinclair Sta	-	000 1112 @ 2010 1	
"B"	9	1980' FNL & 660' FW	'L 3
Gackle Sinclair Sta	_		
"B"	11	1980' FNL & 1980' FE	L 3
Gulf Janda "I" Sta		1980' FNL & 660' FW	
Janda ''I'' State	8	1980' FNL & 1980' FE	

- (2) That the subject waterflood project is hereby designated the Seven Rivers-Queen Unit Waterflood Project and shall be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations.
- (3) That injection into each of the above-authorized water injection wells shall be through internally plastic-coated tubing set in a packer which shall be set as near as is practicable to the uppermost perforation or the casing-shoe, in open-hole completions. The casing-tubing annulus shall be loaded with an inert fluid and equipped with a pressure gauge at the surface.
- (4) That monthly progress reports of the waterflood project herein authorized shall be submitted to the Commission in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.
- (5) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

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



October 30, 1989

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

RE: Administrative Approval of Non-Standard Oil Well Locations

Seven Rivers Queen Unit #76, 77, & 78

South Eunice Oil Pool Lea County, New Mexico

Dear Mr. LeMay,

Attached please find a copy of the return receipt documenting notification of the captioned application to Meridian Oil, Inc. Meridian operates two wells in the Jalmat pool on the same 40 acre spacing unit as the SRQU #77 & 78.

This should complete our application.

If you need any further information, call me at (915) 688-5546.

Very truly yours,

Cindy W Ellis

Cindy W. Ellis Senior Engineer

CC: NMOCD District 1 Office

P.O. Box 1980

Hobbs, New Mexico 88240

Administrative Approval of Non-Standard Oil Well Locations Seven Rivers Queen Unit #76, 77, & 78 South Eunice Oil Pool Lea County, New Mexico

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.  2. Restricted Delivery (Extra charge)						
3. Article Addressed to:	4. Article Number					
Meridian Oil Inc.	P 046 661 754					
21 Desta Drive Midland, TX 79705	Type of Service:  Registered Insured COD Express Mail 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 // /www.						
7. Date of Delivery /2/2-5						
PS Form 3811, Mar. 1988 + U.S.G.P.O. 1988-212	-865 DOMESTIC RETURN RECEIPT					



GARREY CARRUTHERS

GOVERNOR

/ed

# STATE OF NEW MEXICO OIL CONSERVATION DIVISION ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION OCT 26 AM 9 57

10-24-89

POST OFFICE BOX 1980 HOBBS, NEW MEXICO, 88241, 1980. (505) 393-6161

OIL CONSERVATION DIVISION P. O. BOX 2088		
SANTA FE, NEW MEXICO 87501		
RE: Proposed:  MC DHC NSL X NSP SWD WFX PMX		
Gentlemen:	# 26 - G	24-22-36
I have examined the application for the:	# 17-9	34-22-36
Gentlemen:  I have examined the application for the:  Orco Oil J Das Co. Seven Rivers Ousen  Operator Lease & Well No. Unit S.  and my recommendations are as follows:	Unit #78-P	34-22-36
bease a werr no. onre	- 1 - 10	
and my recommendations are as follows:		
OK		
	<del>-</del>	
Yours very truly,		
Jerry Sexton		
Supervisor, District 1		