

OWNERSHIP OF SPACING UNIT

Township 29 North, Range 13 West, NMPM
 Section 12: W/2
 Containing 320.00 acres, more or less
 San Juan County, New Mexico

ROPCO Federal 12-3 (B) FC

Spacing Unit Working Interest:

Richardson Production Company	20.124%
Christmann Mineral Company	4.164%
Roderick Allen Markham	2.082%
Manon Markham McMullen	2.082%
Rosalind Redfern	2.082%
Amoco Production Company	66.690%
Kerr-McGee Corporation	2.776%
	100%

Spacing Unit Net Revenue Interest:

Richardson Production Company	15.3149%
Christmann Mineral Company	3.96696%
Roderick Allen Markham	1.98348%
Manon Markham McMullen	1.98348%
Rosalind Redfern	1.98348%
Amoco Production Company	56.71896%
Kerr-McGee Corporation	2.29384%
USA	3.125%
Jeff Callow	0.625%
Genevieve Carle	0.625%
T.E. Duff Trust	0.15625%
Judith Dianne Duff Leach	0.15625%
Fred A. Mossman et ux Trust	0.86719%
Denver & Rio Grande Western Railroad	0.22855%
Bernice A. Burnham Trust	3.00645%
Sammy B. Reiser	1.50322%
Teddy A. Reiser	1.50322%
Hugh J. and Raimonda Mitchell Trust	0.91379%
Weldon C. Julander et ux	0.36077%
Earl A. Rogers	0.36077%
Paula A. Maxwell	0.78125%
Wayne Tarpley	0.78125%
Northern Specialty Company, Inc.	0.05195%
Glenn P. Wycoff	0.16563%
City of Farmington	0.1418%
Ruth Tanner Wheeler	0.07109%
J. J. DeWeerd	0.33047%
	100%

See attached plat for legal descriptions

Tract 1	80.00/320 = 25.00%	SF-078931	Surface location
Tract 2	22.20/320 = 6.9375%	Fee	
Tract 3	4.39/320 = 1.371875%	Fee	
Tract 4	153.93/320 = 48.103125%	Fee	
Tract 5	40.00/320 = 12.50%	Fee	
Tract 6	1.33/320 = 0.415625%	Fee	
Tract 7	4.24/320 = 1.325%	Fee	
Tract 8	3.63/320 = 1.134375%	Fee	
Tract 9	1.82/320 = 0.56875%	Fee	
Tract 10	8.46/320 = 2.64375%	Fee	

Tract 1:

Royalty: USA (12.5% x 25% = 3.125%)
 ORRI: Jeff Callow (2.5% x 25% = 0.625%)
 Genevieve Carle (2.5% x 25% = 0.625%)
 T.E. Duff Trust (1/2 x 1.25% x 25% = 0.15625%)
 Judith Dianne Duff Leach (1/2 x 1.25% x 25% = 0.15625%)
 Christmann Mineral Company (12.5% x 11.25% x 25% = 0.35156%)
 Roderick Allen Markham (6.25% x 11.25% x 25% = 0.17578%)
 Manon Markham McMullen (6.25% x 11.25% x 25% = 0.17578%)
 Rosalind Redfern (6.25% x 11.25% x 25% = 0.17578%)

WI: Richardson Production Company (29.1667% x 81.25% x 25% = 5.92449%)
 Richardson Production Company (31.25% x 70% x 25% = 5.46875%)
 Christmann Mineral Company (12.5% x 81.25% x 25% = 2.53906%)
 Roderick Allen Markham (6.25% x 81.25% x 25% = 1.26953%)
 Manon Markham McMullen (6.25% x 81.25% x 25% = 1.26953%)
 Rosalind Redfern (6.25% x 81.25% x 25% = 1.26953%)
 Kerr-McGee Corporation (8.3333% x 81.25% x 25% = 1.69270%)

Tract 2:

Royalty: Fred A. Mossman et ux Trust ($12.5\% \times 6.9375\% = 0.86719\%$)
ORRI: Christmann Mineral Company ($12.5\% \times 17.5\% \times 6.9375\% = 0.15176\%$)
Roderick Allen Markham ($6.25\% \times 17.5\% \times 6.9375\% = 0.07588\%$)
Manon Markham McMullen ($6.25\% \times 17.5\% \times 6.9375\% = 0.07588\%$)
Rosalind Redfern ($6.25\% \times 17.5\% \times 6.9375\% = 0.07588\%$)
WI: Richardson Production Company ($29.1667\% \times 87.5\% \times 6.9375\% = 1.77051\%$)
Richardson Production Company ($31.25\% \times 70\% \times 6.9375\% = 1.51758\%$)
Christmann Mineral Company ($12.5\% \times 87.5\% \times 6.9375\% = 0.75879\%$)
Roderick Allen Markham ($6.25\% \times 87.5\% \times 6.9375\% = 0.37939\%$)
Manon Markham McMullen ($6.25\% \times 87.5\% \times 6.9375\% = 0.37939\%$)
Rosalind Redfern ($6.25\% \times 87.5\% \times 6.9375\% = 0.37939\%$)
Kerr-McGee Corporation ($8.3333\% \times 87.5\% \times 6.9375\% = 0.50586\%$)

Tract 3:

Royalty: Denver and Rio Grande Western Railroad ($16.66\% \times 1.371875\% = 0.22855\%$)
ORRI: Christmann Mineral Company ($12.5\% \times 13.34\% \times 1.371875\% = 0.02288\%$)
Roderick Allen Markham ($6.25\% \times 13.34\% \times 1.371875\% = 0.01144\%$)
Manon Markham McMullen ($6.25\% \times 13.34\% \times 1.371875\% = 0.01144\%$)
Rosalind Redfern ($6.25\% \times 13.34\% \times 1.371875\% = 0.01144\%$)
WI: Richardson Production Company ($29.1667\% \times 83.34\% \times 1.371875\% = 0.33347\%$)
Richardson Production Company ($31.25\% \times 70\% \times 1.371875\% = 0.3001\%$)
Christmann Mineral Company ($12.5\% \times 83.34\% \times 1.371875\% = 0.14292\%$)
Roderick Allen Markham ($6.25\% \times 83.34\% \times 1.371875\% = 0.07146\%$)
Manon Markham McMullen ($6.25\% \times 83.34\% \times 1.371875\% = 0.07146\%$)
Rosalind Redfern ($6.25\% \times 83.34\% \times 1.371875\% = 0.07146\%$)
Kerr-McGee Corporation ($8.3333\% \times 83.34\% \times 1.371875\% = 0.09528\%$)

Tract 4:

Royalty: Bernice A. Burnham Trust ($1/2 \times 12.5\% \times 48.103125\% = 3.00645\%$)
Sammy B. Reiser ($1/4 \times 12.5\% \times 48.103125\% = 1.50322\%$)
Teddy A. Reiser ($1/4 \times 12.5\% \times 48.103125\% = 1.50322\%$)
ORRI: Hugh J. and Raimonda Mitchell Trust ($1/2 \times 2.5\% \times 48.103125\% = 0.60129\%$)
Weldon C. Julander et ux ($1/2 \times 1.50\% \times 48.103125\% = 0.36077\%$)
Earl A. Rogers ($1/2 \times 1.50\% \times 48.103125\% = 0.36077\%$)
WI: Amoco Production Company ($84.75\% \times 48.103125\% = 40.7674\%$)

Tract 5:

Royalty: Paula A. Maxwell ($1/2 \times 12.5\% \times 12.5\% = 0.78125\%$)
Wayne Tarpley ($1/2 \times 12.5\% \times 12.5\% = 0.78125\%$)
ORRI: Hugh J. and Raimonda Mitchell Trust ($2.5\% \times 12.5\% = 0.3125\%$)
WI: Amoco Production Company ($85\% \times 12.5\% = 10.625\%$)

Tract 6:

Royalty: Northern Specialty Company, Inc. ($12.5\% \times 0.415625\% = 0.05195\%$)
ORRI: None
WI: Amoco Production Company ($87.5\% \times 0.415625\% = 0.36367\%$)

Tract 7:

Royalty: Glenn P. Wycoff ($12.5\% \times 1.325\% = 0.16563\%$)
ORRI: None
WI: Amoco Production Company ($87.5\% \times 1.325\% = 1.15938\%$)

Tract 8:

Royalty: City of Farmington ($12.5\% \times 1.134375\% = 0.1418\%$)
ORRI: None
WI: Amoco Production Company ($87.5\% \times 1.134375\% = 0.99258\%$)

Tract 9:

Royalty: Ruth Tanner Wheeler ($12.5\% \times 0.56875\% = 0.07109\%$)
ORRI: None
WI: Amoco Production Company ($87.5\% \times 0.56875\% = 0.49766\%$)

Tract 10:

Royalty: J. J. DeWeerd ($12.5\% \times 2.64375\% = 0.33047\%$)
ORRI: None
WI: Amoco Production Company ($87.5\% \times 2.64375\% = 2.31328\%$)

OWNER LIST - ROPCO Federal 12-3 (A) PC, (B) FC

Royalty Owners and Overriding Royalty Owners:

Bernice A. Burnham Revocable Living Trust
c/o Burnham Realty
3300 Burnham Road
Farmington, NM 87401

Sammy B. Reiser
P.O. Box 190
Windsor, CO 80550

Teddy A. Reiser
9914 Lawndale
Kansas City, MO 64137

Hugh J. Mitchell, Trustee of the Hugh J.
Mitchell and Raimonda Mitchell Revocable Trust
4240 N. Buena Vista Avenue
Farmington, NM 87401

Weldon C. Julander and Ila Mae Julander
P.O. Box 2773
Littleton, CO 80161

Earl A. Rogers
P.O. Box 5195
Abeline, TX 79608-5915

Paula A. Maxwell
300 Lila Lane #10
Athens, TX 75751

Wayne Tarpley
P.O. Box 337
Aztec, NM 87410

Northern Specialty Company, Incorporated
c/o J.C. Patterson
308 S. Ivie Avenue
Farmington, NM 87401

Glenn P. Wycoff
11206 County Road 213
Durango, CO 81301

City of Farmington
800 Municipal Drive
Farmington, NM 87401

Ruth Tanner Wheeler
2655 N. Olympic Circle
Mesa, Arizona 85205

J. J. DeWeerd
730 Country Club Drive
Silver City, NM 88061

The Denver and Rio Grande Western Railroad
c/o Mr. Bill Miller
555 17th Street, Suite 2400
Denver, CO 80202-3987

Fred A. Mossman and Mary K. Mossman Trust
c/o Edward Gladden, Co-Trustee
2700 San Mateo NE
Albuquerque, NM 87110

Glenn C. Callow
c/o Jeff Callow
626 Craig Street
Walla Walla, WA 99362-3349

OWNER LIST - ROPCO Federal 12-3 (A) PC, (B) FC

Arnold E. Carle
c/o Genevieve Carle
P.O. Box 4325
Vancouver, WA 98662-0325

United States of America
Bureau of Land Management
c/o Mr. Duane Spencer
1235 La Plata Highway
Farmington, NM 87401

Ted Edward Duff
T. E. Duff Trust
P.O. Box 9908
Midland, TX 79708

Judith Dianne Duff Leach
4000 Shenandoah NE
Albuquerque, NM 87111

Working Interest Owners:

Christmann Mineral Company
1500 Broadway, Suite 800
Lubbock, TX 79401

Roderick Allen Markham
1500 Broadway, Suite 1212
Lubbock, TX 79401

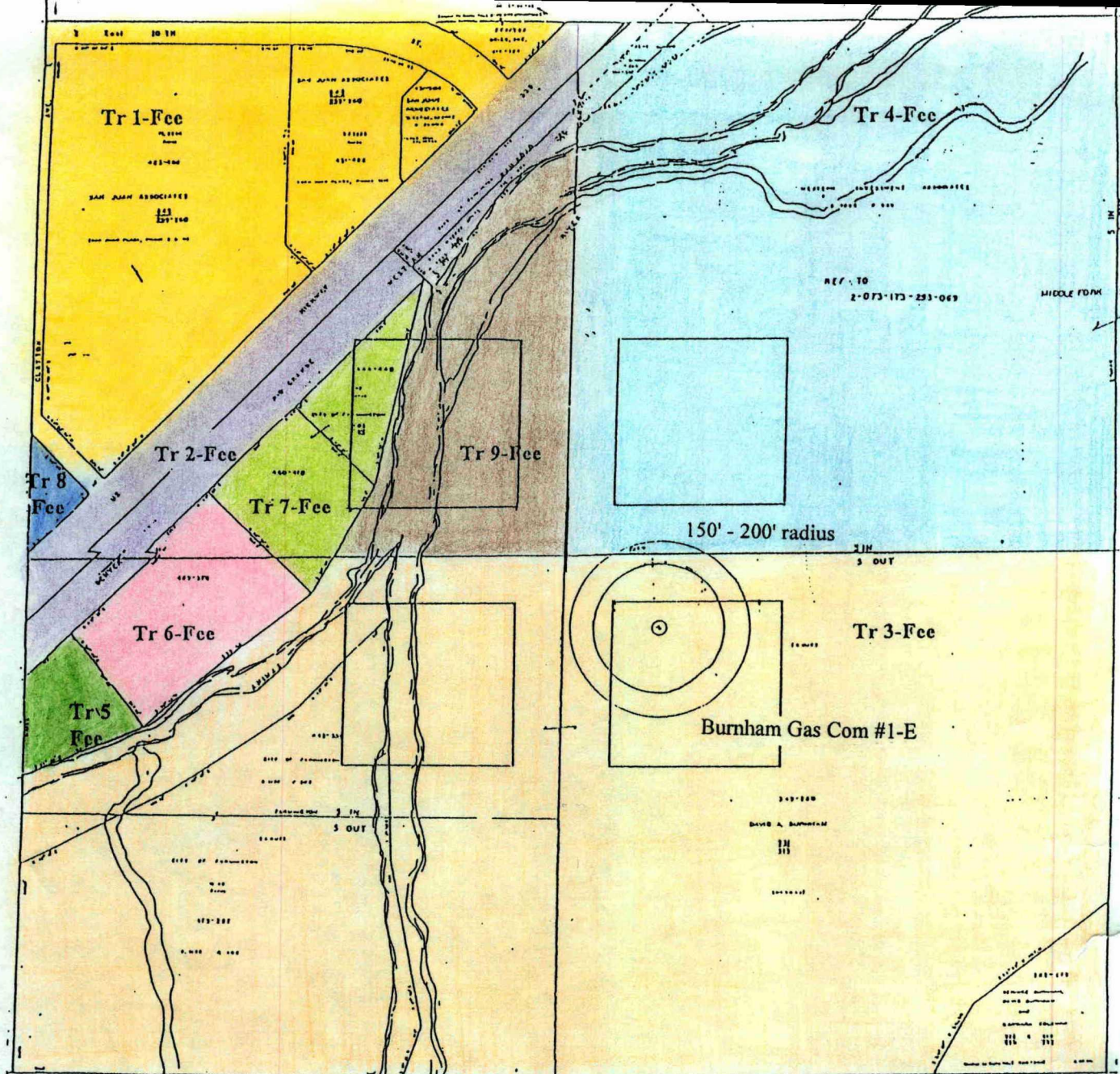
Manon Markham McMullen
2200 Berkley
Wichita Falls, TX 76308

Rosalind Redfern
P.O. Box 2127
Midland, TX 79702

Richardson Production Company
1700 Lincoln, Suite 1700
Denver, CO 80203

Kerr-McGee Corporation
P.O. Box 25861
Oklahoma City, OK 73125

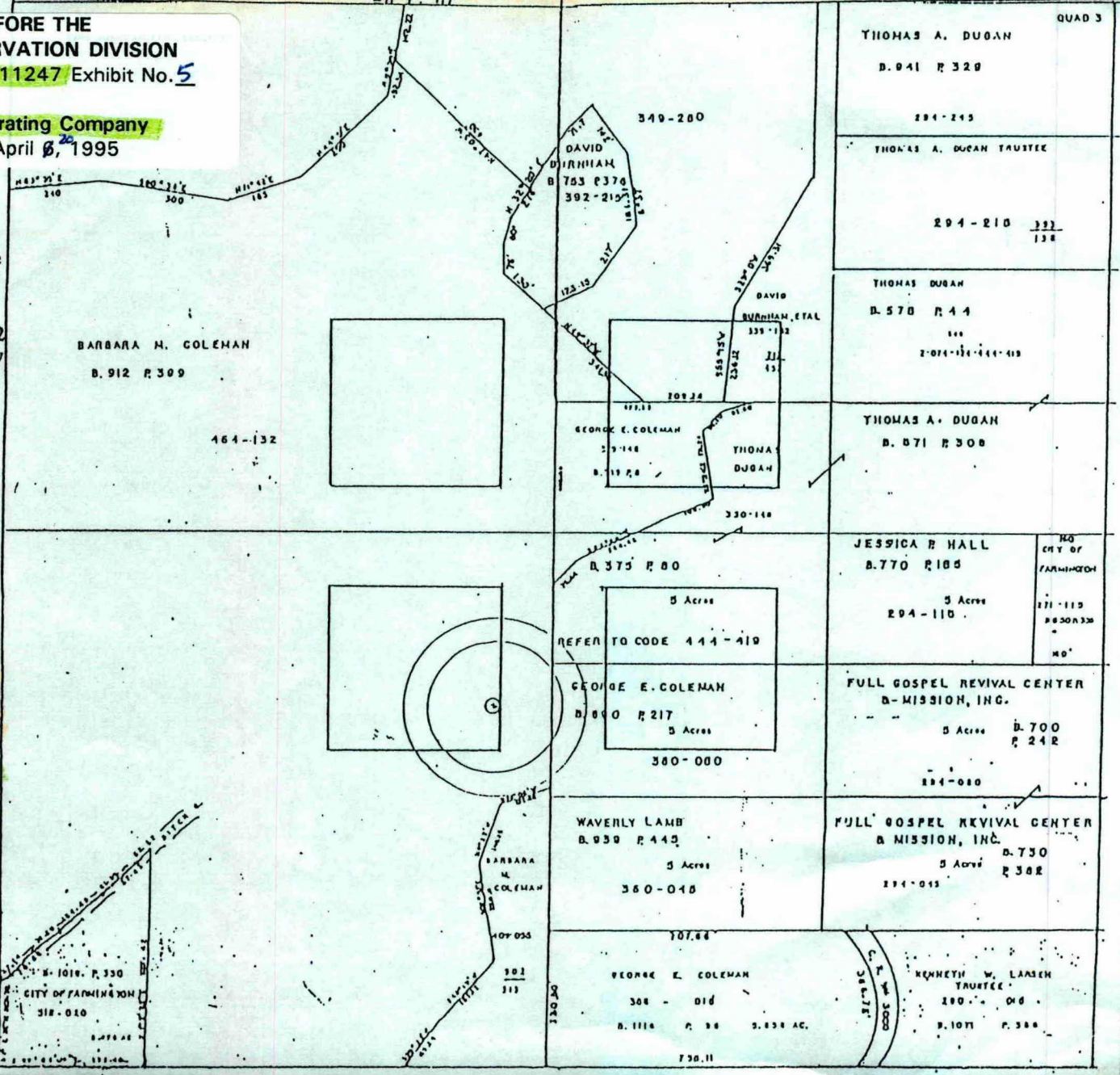
Amoco Production Company
P.O. Box 800
Denver, CO 80201



BEFORE THE
OIL CONSERVATION DIVISION
Case No. 11246/11247 Exhibit No. 5
Submitted By:
Richardson Operating Company
Hearing Date: April 6, 1995

ROPCO Fee
12-4
NW/4-Sec 12
T29N-R13W
San Juan
County,
New Mexico

Tr 1	22.20
Tr 2	4.39
Tr 3	73.93
Tr 4	40.00
Tr 5	1.33
Tr 6	4.24
Tr 7	3.63
Tr 8	1.82
Tr 9	8.46



OWNERSHIP OF SPACING UNIT

Township 29 North, Range 13 West, NMPM
 Section 12: NW/4
 Containing 160.00 acres, more or less
 San Juan County, New Mexico

ROPCO Fee 12-4 PC

Spacing Unit Working Interest:

Richardson Production Company	10.041%
Christmann Mineral Company	2.077%
Roderick Allen Markham	1.039%
Manon Markham McMullen	1.039%
Rosalind Redfern	1.039%
Amoco Production Company	83.381%
Kerr-McGee Corporation	1.384%
	<u>100%</u>

Spacing Unit Net Revenue Interest:

Richardson Production Company	7.8433%
Christmann Mineral Company	2.15268%
Roderick Allen Markham	1.07634%
Manon Markham McMullen	1.07634%
Rosalind Redfern	1.07634%
Amoco Production Company	71.06291%
Kerr-McGee Corporation	1.20227%
Fred A. Mossman et ux Trust	1.73437%
Denver & Rio Grande Western Railroad	0.45711%
Bernice A. Burnham Trust	2.88788%
Sammy B. Reiser	1.44395%
Teddy A. Reiser	1.44395%
Hugh J. and Raimonda Mitchell Trust	1.20258%
Weldon C. Julander et ux	0.34655%
Earl A. Rogers	0.34655%
Paula A. Maxwell	1.5625%
Wayne Tarpley	1.5625%
Northern Specialty Company, Inc.	0.10391%
Glenn P. Wycoff	0.33125%
City of Farmington	0.28359%
Ruth Tanner Wheeler	0.14219%
J. J. DeWeerd	0.66094%
	<u>100%</u>

See attached plat for legal descriptions

Tract 1	22.20/160 = 13.875%	Fee
Tract 2	4.39/160 = 2.74375%	Fee
Tract 3	73.93/160 = 46.20625%	Fee
Tract 4	40.00/160 = 25.00%	Fee
Tract 5	1.33/160 = 0.83125%	Fee
Tract 6	4.24/160 = 2.65%	Fee
Tract 7	3.63/160 = 2.26875%	Fee
Tract 8	1.82/160 = 1.1375%	Fee
Tract 9	8.46/160 = 5.2875%	Fee

Tract 1:

Royalty: Fred A. Mossman et ux Trust (12.5% x 13.875% = 1.73437%)
 ORRI: Christmann Mineral Company (12.5% x 17.5% x 13.875% = 0.30352%)
 Roderick Allen Markham (6.25% x 17.5% x 13.875% = 0.15176%)
 Manon Markham McMullen (6.25% x 17.5% x 13.875% = 0.15176%)
 Rosalind Redfern (6.25% x 17.5% x 13.875% = 0.15176%)

WI: Richardson Production Company (29.1667% x 87.5% x 13.875% = 3.54102%)
 Richardson Production Company (31.25% x 70% x 13.875% = 3.03516%)
 Christmann Mineral Company (12.5% x 87.5% x 13.875% = 1.51758%)
 Roderick Allen Markham (6.25% x 87.5% x 13.875% = 0.75879%)
 Manon Markham McMullen (6.25% x 87.5% x 13.875% = 0.75879%)
 Rosalind Redfern (6.25% x 87.5% x 13.875% = 0.75879%)
 Kerr-McGee Corporation (8.3333% x 87.5% x 13.875% = 1.01171%)

Tract 2:

Royalty: Denver and Rio Grande Western Railroad ($16.66\% \times 2.74375\% = 0.45711\%$)
ORRI: Christmann Mineral Company ($12.5\% \times 13.34\% \times 2.74375\% = 0.04575\%$)
Roderick Allen Markham ($6.25\% \times 13.34\% \times 2.74375\% = 0.02288\%$)
Manon Markham McMullen ($6.25\% \times 13.34\% \times 2.74375\% = 0.02288\%$)
Rosalind Redfern ($6.25\% \times 13.34\% \times 2.74375\% = 0.02288\%$)
WI: Richardson Production Company ($29.1667\% \times 83.34\% \times 2.74375\% = 0.66694\%$)
Richardson Production Company ($31.25\% \times 70\% \times 2.74375\% = 0.6002\%$)
Christmann Mineral Company ($12.5\% \times 83.34\% \times 2.74375\% = 0.28583\%$)
Roderick Allen Markham ($6.25\% \times 83.34\% \times 2.74375\% = 0.14292\%$)
Manon Markham McMullen ($6.25\% \times 83.34\% \times 2.74375\% = 0.14292\%$)
Rosalind Redfern ($6.25\% \times 83.34\% \times 2.74375\% = 0.14292\%$)
Kerr-McGee Corporation ($8.3333\% \times 83.34\% \times 2.74375\% = 0.19055\%$)

Tract 3:

Royalty: Bernice A. Burnham Trust ($1/2 \times 12.5\% \times 46.20625\% = 2.88788\%$)
Sammy B. Reiser ($1/4 \times 12.5\% \times 46.20625\% = 1.44395\%$)
Teddy A. Reiser ($1/4 \times 12.5\% \times 46.20625\% = 1.44395\%$)
ORRI: Hugh J. and Raimonda Mitchell Trust ($1/2 \times 2.5\% \times 46.20625\% = 0.57758\%$)
Weldon C. Julander et ux ($1/2 \times 1.50\% \times 46.20625\% = 0.34655\%$)
Earl A. Rogers ($1/2 \times 1.50\% \times 46.20625\% = 0.34655\%$)
WI: Amoco Production Company ($84.75\% \times 46.20625\% = 39.1598\%$)

Tract 4:

Royalty: Paula A. Maxwell ($1/2 \times 12.5\% \times 25.00\% = 1.5625\%$)
Wayne Tarpley ($1/2 \times 12.5\% \times 25.00\% = 1.5625\%$)
ORRI: Hugh J. and Raimonda Mitchell Trust ($2.5\% \times 25.00\% = 0.625\%$)
WI: Amoco Production Company ($85\% \times 25.00\% = 21.25\%$)

Tract 5:

Royalty: Northern Specialty Company, Inc. ($12.5\% \times 0.83125\% = 0.10391\%$)
ORRI: None
WI: Amoco Production Company ($87.5\% \times 0.415625\% = 0.72734\%$)

Tract 6:

Royalty: Glenn P. Wycoff ($12.5\% \times 2.65\% = 0.33125\%$)
ORRI: None
WI: Amoco Production Company ($87.5\% \times 2.65\% = 2.31875\%$)

Tract 7:

Royalty: City of Farmington ($12.5\% \times 2.26875\% = 0.28359\%$)
ORRI: None
WI: Amoco Production Company ($87.5\% \times 2.26875\% = 1.98516\%$)

Tract 8:

Royalty: Ruth Tanner Wheeler ($12.5\% \times 1.1375\% = 0.14219\%$)
ORRI: None
WI: Amoco Production Company ($87.5\% \times 1.1375\% = 0.99531\%$)

Tract 9:

Royalty: J. J. DeWeerd ($12.5\% \times 5.2875\% = 0.66094\%$)
ORRI: None
WI: Amoco Production Company ($87.5\% \times 5.2875\% = 4.62655\%$)

OWNER LIST - ROPCO Fee 12-4

Royalty Owners and Overriding Royalty Owners:

Bernice A. Burnham Revocable Living Trust
c/o Burnham Realty
3300 Burnham Road
Farmington, NM 87401

Sammy B. Reiser
P.O. Box 190
Windsor, CO 80550

Teddy A. Reiser
9914 Lawndale
Kansas City, MO 64137

Hugh J. Mitchell, Trustee of the Hugh J.
Mitchell and Raimonda Mitchell Revocable Trust
4240 N. Buena Vista Avenue
Farmington, NM 87401

Weldon C. Julander and Ila Mae Julander
P.O. Box 2773
Littleton, CO 80161

Earl A. Rogers
P.O. Box 5195
Abeline, TX 79608-5915

Paula A. Maxwell
300 Lila Lane #10
Athens, TX 75751

Wayne Tarpley
P.O. Box 337
Aztec, NM 87410

Northern Specialty Company, Incorporated
c/o J.C. Patterson
308 S. Ivie Avenue
Farmington, NM 87401

Glenn P. Wycoff
11206 County Road 213
Durango, CO 81301

City of Farmington
800 Municipal Drive
Farmington, NM 87401

Ruth Tanner Wheeler
2655 N. Olympic Circle
Mesa, Arizona 85205

J. J. DeWeerd
730 Country Club Drive
Silver City, NM 88061

The Denver and Rio Grande Western Railroad
c/o Mr. Bill Miller
555 17th Street, Suite 2400
Denver, CO 80202-3987

Fred A. Mossman and Mary K. Mossman Trust
c/o Edward Gladden, Co-Trustee
2700 San Mateo NE
Albuquerque, NM 87110

OWNER LIST - ROPCO Fee 12-4

Working Interest Owners:

Christmann Mineral Company
1500 Broadway, Suite 800
Lubbock, TX 79401

Roderick Allen Markham
1500 Broadway, Suite 1212
Lubbock, TX 79401

Manon Markham McMullen
2200 Berkley
Wichita Falls, TX 76308

Rosalind Redfern
P.O. Box 2127
Midland, TX 79702

Richardson Production Company
1700 Lincoln, Suite 1700
Denver, CO 80203

Kerr-McGee Corporation
P.O. Box 25861
Oklahoma City, OK 73125

Amoco Production Company
P.O. Box 800
Denver, CO 80201