Status of Execution of AFE's By Working Interest Percentage As of 4/6/95

SW/4 (PC), W/2 (FC)-Section 12-T29N-R13W San Juan County, NM Pictured Cliffs / Fruitland Coal (Downhole Commingled)

Richardson AFE: \$193,979	PC	FC
Richardson Production Company	30.208%	20.124%
Rosalind Redfern	3.125%	2.082%
Roderick Allen Markham	3.125%	2.082%
Christmann Mineral Company	6.250%	4.164%
Manon Markham McMullen	3.125%	2.082%
	45.833%	30.534%
Amoco AFE: \$260,760	PC	FC
Amoco Production Company	50.000%	66.690%
Uncommitted	PC	FC
Kerr-McGee Corporation	4.167%	2.776%

Richardson Operating Company Hearing Date: April 20, 1995

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AUTHORITY FOR EXPEDITURES

Well Name: ROPCO Fee 12-3 (A) PC, (B) FC SECTION 12 PC SW/4, FC W/2

Location: T29N R13W

Date:

/6/95

Proposed Depth: 1600'

Objective Formation: Commingled Pictured Cliffs and

Frultland Coal

ı.	Drilling Costs (Included Run Casing)	Tangible	Intangible	Total	Actual
	Survey and Permits		1,500		
	Title Opinion & Land Costs	{	1,500		
	Damages		1,500	1	
	Drilling (Incl. water and mud) 1600' @ 10.00/ft		16,000		
	BOP Rental		750	j	
	Dirt Work	Î	3.000		
	Pit Uning	Į	1,500	Į	
	Surface Casing 200' @ 6.00/ft	1,200	.,550		
	Casing Head	750			
	Cement Surface	, ~~	1,500	j	
	Power Tongs		1,000		
	Casing 1600' @ 5.00/ff	8,000	1		
	Trucking	6,000	1		
	Logs		2,000 4,000		
	Engineering		1,500		
	Cement Longstring		4,000		
	Total Cost to Run Casing	9,950		49.700	
	7% Contingency	7,730	1 37,730}	3.479	ı
	Grand Total to Run Casing		_	53.179	
IJ.	Completion Costs			33,179	I
	Rig Anchors		600		
	Logs		2,000		
	Perf		4,000		
	Wellhead & Fittings	4,000	t I		
	Tubing 1600' @ 1.50/ft	2,400			
	Stimulation		48,000		
	Tool Rental		2,000		
	Trucking		3,000		
	Battery installation		4,000		
	Restore Location		1.500		
	Engineering		5,500		
	Treator	5.000			
	Flowline	5.000	1 3		
	Tonk & Fittings	4.000			
	Gravel		1,000		Į
	Workover Rig		15.000		1
	Completion Fluids		2,000		
	El Paso Hookup		13,000		
	Division Order		1,000		
	Frac Tonk Rental		1,000		
	Flowback		2,000		
	Fence Location	2,000			
	Total Completion Costs	22,400	105.600	128.000	
	10% Contingency		·	12,800	
	Drilling Costs		_	53.179) •
	Grand Total Well Costs		_	193,979	•
			-		•
	ROPCO 12-3 (A) PC, SW/4				
	% RICHARDSON PRODUCTION COMPANY	APPROVED		DA	
	% AMOCO PRODUCTION COMPANY	APPROVED			TE
	% CHRISTMANN MINERAL COMPANY	APPROVED			TE
	% RODERICK ALLEN MARKHAM	APPROVED		DA	
	% MANON MARKHAM MCMULEN	APPROVED	NA A	DA	TE
	% ROSAUND REDFERN	APPROVED	Margens	Redeeda	Marchiagy
4.167	% KERR-MOGEE CORPORATION	APPROVED	· · · · · · · · · · · · · · · · · · ·	DA	TE10

AUTHORITY FOR EXPEDITURES

Well Name: ROPCO Fee 12-3 (A) PC, (B) FC SECTION 12 PC SW/4, FC W/2

Location: T29N R13W

Date:

3/6/95

Proposed Depth: 1600'

Objective Formation: Commingled Pictured Cliffs and

Frullland Coal

1.	Drilling Costs (Included Run Casing)	Tangible	Inlangible	Total	Actual
	Survey and Permils		1,500		
	Title Opinion & Land Costs		1,500	1	
	Damages		1,500		
	Drilling (Incl. water and mud) 1600' @ 10.00/ft		16,000	I	
	BOP Rental	:	750	1	
	Dirt Work			1	
			3,000		
	Plf Lining	3.000	1,500	[
	Surface Casing 200' @ 6.00/ft	1,200		Ī	
	Casing Head	750	1	ļ	
	Cement Surface		1,500	- 1	
	Power Tongs		1,000		
	Casing 1600' @ 5.00/ft.	8.000	1 1	ŀ	
	Trucking		2.000	ļ	
	Logs		4,000		
	Engineering		1,500		
	Cement Longstring		4,000		
	Total Cost to Run Casing	9,950	39,750	49,700	,
	7% Contingency			3,479	
	Grand Total to Run Casing			53,179	
II.	Completion Costs			•	
	Rlg Anchors		600	1	
	Logs		2,000	,	
	Perf		4,000		
	Wellhead & Filtings	4,000	1 1		
	Tubing 1600' @ 1.50/II	2,400	1		
	Silmulation	2,-100	48,000		
	Tool Rental		2,000		•
	Trucking		1		
	Battery Installation	•	3,000	ļ	ı
	Restore Location		4,000	1	
	Engineering		1,500		
	Treator	F 000	5,500		
		5.000	1	l	
	Flowline	5.000	1		
	Tank & Fillings	4,000			
	Gravel		1,000		
	Workover Rlg		15,000	l	
	Completion Fluids		2,000		
	El Paso Hookup		13,000		
	Division Order		1,000		
	Frac Tank Rental		1,000		
	Flowback		2,000		
	Fence Location	2,000			
	Total Completion Costs	22,400	105,600	128,000	
	10% Contingency			12,800	
	Drilling Costs			53,179	
	Grand Total Well Costs		-	193,979	•
	ROPCO 12-3 (A) PC, \$W/4				
30 208	% RICHARDSON PRODUCTION COMPANY	APPROVED		DA:	īC
	& AMOCO PRODUCTION COMPANY	APPROVED		DA`	
	& CHRISTMANN MINERAL COMPANY	APPROVED		DA`	
	% RODERICK ALLEN MARKHAM	APPROVED	Ridlall		
	& MANON MARKHAM MCMULLEN	APPROVED	MELLENNEY	DA DA	
	& ROSALIND REDFERN			DA`	
	% ROSALIND REDFERIN % KERR-MCGEE CORPORATION	APPROVED APPROVED		DA`	
4.107	W NEIGHTING GEE CORPORATION	VILLIKOAFA		U/\	IE
	DODGO 12 3 (D) FC W/2				

ROPCO 12-3 (B) FC, W/2

20.124% RICHARDSON PRODUCTION COMPANY

66.690% AMOCO PRODUCTION COMPANY

4.164% CHRISTMANN MINERAL COMPANY

2.082% RODERICK ALLEN MARKHAM

2.082% MANON MARKHAM MCMULLEN

2.082% ROSALIND REDFERN

2.776% KERR-MCGEE CORPORATION

AUTHORITY FOR EXPEDITURES

Well Name: ROPCO Fee 12-3 (A) PC, (B) FC SECTION 12 PC SW/4, FC W/2

Location: T29N R13W

Date:

3/6/95

Proposed Depth: 1600'

Objective Formation: Commingled Pictured Cliffs and

Fruitland Coal

I.	Drilling Costs (Included Run Casing)	Tangible	Intangible	Total	Actual	
	Survey and Permits		1,500			
	Title Opinion & Land Costs)	1,500	į		
	Damages		1,500	1		
	Drilling (Incl., water and mud) 1600' @ 10.00/ft		16,000	\		•
	BOP Rental	"	750			
	Dirt Work		3,000		- »*	
	Plt Uning		1,500	j		
		1,200	;	}		
	Surface Casing 200' @ 6.00/ftCasing Head	750		j	1	
	Cement Surface	750	1,500			
	Power Tongs		1,000			
	Casing 1600' @ 5.00/ft	8,000			!	
•	Trucking	0,000	1 ! 1			
	Logs		2 000			
	Engineering		4,000 1,500	Ì		
			4,000			
	Cement Longstring	2050		40 700		
	Total Cost to Run Casing	9,950	39,750	49,700		
	7% Contingency		_	3,479		
	Grand Total to Run Casing		;	53,179	1	
n.	Completion Costs				, i	
	Rig Anchors	'	600	j		
	Logs		2.000			
	Perf		4,000			
	Wellhead & Fittings	4.000	[[
	Tubing 1600' @ 1.50/ft	2,400	[[
	Stimulation		48,000			
	Tool Rental		2.000			
	TruckIng		3.000			
	Battery Installation	ļ	4,000	ļ		
	Restore Location		1,500			
	EnglneerIng	1	5,500			
	Treator	5,000		1		
	Flowline	5,000		J		
	Tank & Fittings	4,000	1]		
	Gravel		1,000	į		
	Workover Rig		15,000	1		
	Completion Fluids		2,000			
	El Paso Hookup		13,000			
	Division Order		1,000	i	· ·	
	Frac Tank Rental		1,000]		
	Flowback		2,000			
	Fence Location	2,000		}		1
	Total Completion Costs	22,400	105,600	128,000		•
	10% Contingency	•	•	12.800		
	Drilling Costs			53,179	!	
	Grand Total Well Costs			193,979		
		f				
:	ROPCO 12-3 (A) PC, SW/4	1				
30 208%	RICHARDSON PRODUCTION COMPANY	APPROVED		DAT	E	
	AMOCO PRODUCTION COMPANY	APPROVED		ρ DAT		
	CHRISTMANN MINERAL COMPANY	APPROVED 6	18 CH.		E 3/15/95	_
	RODERICK ALLEN MARKHAM	APPROVED	CICLLET XXXXXX	DAT		-
	MANON MARKHAM MCMULLEN	APPROVED		DAT		
	ROSALIND REDFERN	APPROVED		DAT		-
	KERR-MCGEE CORPORATION	APPROVED		DAT		_
		1			<u></u>	
	ROPCO 12-3 (B) FC W/2	! '				

ROPCO 12-3 (B) FC, W/2

20.124% RICHARDSON PRODUCTION COMPANY

66.690% AMOCO PRODUCTION COMPANY

4.164% CHRISTMANN MINERAL COMPANY

2.082% RODERICK ALLEN MARKHAM

2.082% MANON MARKHAM MCMULLEN

2.082% ROSALIND REDFERN

2.748 VEDD MACCEE CODDODATION

M MCMULLEN

RICHARDSON OPERATING COMPANY AUTHORITY FOR EXPEDITURES

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Well Name: ROPCO Fee 12-3 (A) PC, (B) FC SECTION 12 PC SW/4, FC W/2

Location: T29N R13W

Date:

3/6/95

Proposed Depth: 1600'

Objective Formation: Commingled Pictured Cliffs and

Frullland Coal

1.	Drilling Costs (Included Run Casing)	Tangible	Inlangible	Total	Actual
	Survey and Permils		1,500		
	Title Opinion & Land Costs		1,500		
	Damages)	1,500		
	Drilling (Incl. water and mud) 1600' @ 10.00/fl	į	16,000		
	BOP Rental		750	ł	
	Dirt Work		3.000	1	
				j	
	Pit Uning	1 000	: 1,500	j	
	Surface Casing 200' @ 6.00/11	1,200		1	
	Casing Head	750		ì	
	Cement Surface		1.500		
	Power fongs		1,000		
	Casing 1600' @ 5.00/11	000,8		-	
	Trucking		2,000		
	Logs		4,000		
	Engineering		1,500		
	Cement Longstrling		4,000]	
	Total Cost to Run Casing	9,950	39,750	49,700	
	7% Conlingency	•	,	3,479	
	Grand Total to Run Casing		 Table 	53,179	
II.	Completion Costs			00,1771	
11.	Rig Anchors		600	ı	ı
	Logs			ľ	
			2,000		
	Perf	4.000	4,000	l	
	Wellhead & Fittings	4,000	1 1		
	Tubing 1600' @ 1.50/ft	2,400	1		
	Stlmulation		48,000		
	Tool Rental		2.000		
	Trucking		3,000	•	
	Battery Installation		4,000		
	Restore Location		1,500		
	Engineering		5,500		
	Treator	5.000	1		
	Flowline	5.000	1		
	Tank & Filtings	4,000	1 1		
	Gravel	,,000	1,000		
	Workover Rig		15.000		
	Completion Fluids		2.000		
	El Paso Hookup		13.000		
	Division Order		1		
	Frac Tank Rental		1,000		
			1,000		
	Flowback		2,000		
	Fence Locallon	2,000			
	Total Completion Costs	22,400	105,600	128,000	₹
	10% Contingency			12,800	
	Drilling Costs			53,179	
	Grand Total Well Costs			193,979	
			=		
	POPCO 12-3 (A) PC SW/4				
20.0000	ROPCO 12-3 (A) PC, SW/4	A DODO VED		P. 4	tr
	6 RICHARDSON PRODUCTION COMPANY	APPROVED		DA	
	6 AMOCO PRODUCTION COMPANY	APPROVED		DA	
	6 CHRISTMANN MINERAL COMPANY	APPROVED		DA	
	6 RODERICK ALLEN MARKHAM	APPROVED	,, ,, ,,	DA	
	6 MANON MARKHAM MCMULLEN		Manon Me		TE_3-18-95
	6 ROSALIND REDFERN	APPROVED		DA	
4.1679	6 KERR-MCGEE CORPORATION	APPROVED		D\	TE
	DODGO 10.3 (D) FO W/A				

ROPCO 12-3 (B) FC, W/2

20.124% RICHARDSON PRODUCTION COMPANY

66.690% AMOCO PRODUCTION COMPANY

4.164% CHRISTMANN MINERAL COMPANY

2.082% RODERICK ALLEN MARKHAM

2.082% MANON MARKHAM MCMULLEN

2.082% ROSALIND REDFERN

2.776% KERR-MCGFF CORPORATION

Status of Execution of AFE's By Working Interest Percentage As of 4/6/95

NW/4-Section 12-T29N-R13W San Juan County, NM Pictured Cliffs

Richardson AFE: \$152,117	PC
Richardson Production Company	10.041%
Rosalind Redfern	1.039%
Roderick Allen Markham	1.039%
Christmann Mineral Company	2.077%
Manon Markham McMullen	<u>1.039%</u>
	15.235%
Amoco AFE: \$216,260	PC
Amoco Production Company	83.381%
Uncommitted	PC
Kerr-McGee Corporation	1.384%

BEFORE THE
OIL CONSERVATION DIVISION
Case No.11247 Exhibit No./6

Submitted By:

Richardson Operating Company Hearing Date: April 20, 1995

AUTHORITY FOR EXPEDITURES

Well Name: ROPCO Fee 12-4 PC SECTION 12 NW/4

Location: T29N R13W

Date: 3/6/95

Proposed Depth: 1600'

Objective Formation: Pictured Citfs

I. E	orilling Costs (Included Run Casing)	Tangible	Intangible	Total	Actual	
	survey and Pemilis		1,500	1		1
	The Opinion & Land Costs		1,500	(1
	Jamages		1,500	Ì		
	Ortiling (Incl. water and mud) 1600' @ 10.00/ft		16,000			l
			750	1		1
	Off Work		3.000	1		1
	Pit Lining		1,500			1
	Surface Casing 200' @ 6.00/ff	1,200	1 1)		
3	Cosing Head	750		į		
	Cement Surface	700	1,500			1
	Power Tongs		1,000			1
	Casing 1600' @ 4.00/ft.	6.400				
	rucking	4.400	2,000			1
	LOGS		4,000			1
	Engineering		1,500			1
	Cement Longstring		4,000			1
`	Total Cast to Run Casing	8.350		48.100		Ì
	7% Contingency	0.330	1 03,750	3,367		ı
	<u> </u>		-			
	Grand Total to Run Cosing			51,467	i	
	Completion Costs Rig Anchors		600	1	1	ì
	Logs		2,000	j		
	Peri		1.500			ļ
	Wellhead & Fittings	4.000				1
	Tubing 1600' @ 1.50/ft	2.400	3 1			
	Stimulation	2-400	24,000			١
	Tool Rental		2,000			1
	Trucking		3,000			1
	Battery Installation		4.000			-
	Restore Location		1,500			-
	Engineering		3.000			1
	Iredior	5.000	1		}	-
	Flowline	5,000	1 1		Ì	1
	Tank & Fittings	4,000	1 1			1
	Grovel		1,000			1
	Workover Rig		7,500			
	Completion Fluids		2,000			-
	El Paso Hookup		13.000		j	-
	Division Order		1,000			1
	Frac Tank Rental		1,000		1	
	Flowback		2,000		1	1
	Fence Location	2.00	0]	
	Total Completion Costs	22,40	69,100	91.500	1	
	10% Contingency			9,150	1	-
	Drilling Costs		_	51,467	<u>.</u>	
	Grand Total Well Costs		_	152,117	<u> </u>	
			•		•	
	ROPCO 12-4 PC, NW/4					
0.04194	RICHARDSON PRODUCTION COMPANY	APPROVED		_DA	TF.	
	AMOCO PRODUCTION COMPANY	APPROVED		DA		
	CHRISTMANN MINERAL COMPANY	APPROVED	***************************************	DA		
	RODERICK ALLEN MARKHAM	APPROVED		_ DA		
	MANON MARKHAM MCMULLEN	APPROVED		DA	TE .	
	ROSALIND REDFERN	APPROVED	x Rosalini	de Fedde	En 6 march,	91
	KERR-MCGEE CORPORATION	APPROVED		Ø.A		•

RICHARDSON OPERATING COMPANY **AUTHORITY FOR EXPEDITURES**

Well Name: ROPCO Fee 12-4 PC SECTION 12 NW/4

Location: T29N R13W

Dale:

3/6/95

Proposed Depth: 1600'

Objective Formation: Pictured Cliffs

i.	Drilling Costs (Included Run Casing)	Tangible	Intangible	Total	Actual
	Survey and Permits		1,500		
	Title Opinion & Land Costs		1,500	1	!
	Damages		1,500		
	Drilling (Incl. water and mud) 1600' @ 10.00/ft		16,000	I	
	BOP Rental		750		
	Dirt Work		3,000	1	
	Pit Uning	i	1,500		
	Surface Casing 200' @ 6.00/ft	1,200			
	Casing Head	750	h I		
	Cement Surface	700	1,500		
	Power Tongs		1,000		
	Casing 1600' @ 4.00/ft	6,400			
	Trucking	0,400	2,000		
	Logs		4,000	`	
	Engineering		1,500		
	Cement Longstring		4,000		
		9.250		49 100	
	Total Cost to Run Casing	8,350	39,750	48,100	
	7% Contingency		•	3,367	1
11.	Grand Total to Run Casing Completion Costs			51,467	
	Rig Anchors		600		
	Logs		2.000		
	Perf		1,500		
	Wellhead & Fittings	4,000			
	Tubing 1600' @ 1.50/ft	2,400			
	SIImulation		24,000		•
	Tool Rental		2,000		
	Trucking		3,000		
	Battery Installation		4.000		
	Restore Location		1,500	•	
	Engineering		3,000		
	Treator	5,000	1		
	Flowline	5,000	ol l		
	Tank & Fittings	4,000	1		
	Gravel		1,000		,
	Workover Rlg		7.500		İ
	Completion Fluids		2,000		
	El Paso Hookup		13,000		
	Division Order		1,000		
	Frac Tank Rental		1,000		Ì
	Flowback		2,000		
	Fence Location	2,000	<u> </u>		j
	Total Completion Costs	22,400	69,100	91,500	7
	10% Contingency			9,150	
	Drilling Costs			51,467	•
	Grand Total Well Costs		-	152,117	
					•
	ROPCO 12-4 PC, NW/4				
10.041	% RICHARDSON PRODUCTION COMPANY	APPROVED		DA	TE
83.381	% AMOCO PRODUCTION COMPANY	APPROVED		DA	TE
2.077	% CHRISTMANN MINERAL COMPANY	APPROVED		DA	TE
1.039	% RODERICK ALLEN MARKHAM	APPROVED	Patrille	Mrs. DA	TE 3/14/95
1.039	% MANON MARKHAM MCMULLEN	APPROVED		DA	
1.039	% ROSALIND REDFERN	APPROVED		DA	
1.384	% KERR-MCGEE CORPORATION	APPROVED		DA	TE

RICHARDSON OPERATING COMPANY AUTHORITY FOR EXPEDITURES

	Well Name: ROPCO Fee 12-4 PC SECTION 12 NW	1/4	,			
	Location: T29N R13W	Date:	3/6/95			
	Proposed Depth: 1600'	Objective Fo	rmation: Pictu	red Cliffs		
1.	Drilling Costs (Included Run Casing)	Tangible	Intangible	Total	Actual	
	Survey and Permits	·	1,500			
	Title Opinion & Land Costs		1,500	1		
	Damages		1,500	Ī		
	Drilling (incl. water and mud) 1600' @ 10.00/ft		16,000			
	BOP Rental		750	1		
	Dirt Work		3,000	Į.		
	Pit Lining		1,500	1		
	Surface Casing 200' @ 6.00/ft	1,200		-		
	Casing Head	750		l		
	Cement Surface	t	1,500	Ì		
	Power Tongs		1,000	1		
	Casing 1600' @ 4.00/ft	6,400	1	1		
	Trucking)	2,000	i		
	Logs		4,000	}		
	Engineering	:	1,500 4,000	į.		•
	Cement Longstring	0.050		40.100	• • •	
	Total Cost to Run Casing	8,350	39,750	48,100	•	
	7% Contingency			3,367	r	
	Grand Total to Run Casing			51,467		
И.	Completion Costs Rig Anchors		600	1	1	
	Logs		2,000	Ì		
	Perf		1,500	ì		
	Wellhead & Fittings	4,000		ļ		
	Tubing 1600' @ 1.50/ft	2,400		İ		
	Stimulation	2,400	24,000	ļ		
	Tool Rental		2,000	į		
	Trucking		3,000	}		
	Battery Installation		4,000	ì		
	Restore Location		1,500	Ì		
	Engineering		3,000			
	Treator	5,000	0,000			
	Flowline	5,000		<u> </u>		
	Tank & Fittings	4,000	1 1	Į		
	Gravel	,,,,,	1,000	1		
	Workover Rig		7,500	[
	Completion Fluids		2,000	1		
	El Paso Hookup	Ì	13,000	1		
	Division Order	•	1,000	Ì		
	Frac Tank Rental		1,000	j		
	Flowback	:	2,000	{		
	Fence Location	2,000	[
	Total Completion Costs	22,400	69,100	91,500		
	10% Contingency			9,150		
	Drilling Costs		_	51,467		
	Grand Total Well Costs			152,117		
	ROPCO 12-4 PC, NW/4					
10.041%	RICHARDSON PRODUCTION COMPANY	APPROVED		DAT	E	•
	AMOCO PRODUCTION COMPANY	APPROVED		DAT		
2.077%	CHRISTMANN MINERAL COMPANY	APPROVED@	28 Chrest	MALLY DAT	E 3/15/95	
	RODERICK ALLEN MARKHAM	APPROVED	1	DAT	E	
	MANON MARKHAM MCMULLEN	APPROVED		DAT		
	ROSALIND REDFERN	APPROVED		DAT	E	
1.384%	KERR-MCGEE CORPORATION	APPROVED		DAT	E	

RICHARDSON OPERATING COMPANY AUTHORITY FOR EXPEDITURES

Well Name; ROPCO Fee 12-4 PC SECTION 12 NW/4

Location: T29N R13W

Date:

3/6/95

Proposed Depth: 1600'

Objective Formation: Pictured Cliffs

١.	Drilling Costs (Included Run Casing)	Tangible	Intangible	Total	Actual
	Survey and Permits		1,500		
	Title Opinion & Land Costs	Į	1,500	l	
	Damages	-	1,500		
	Drilling (Incl. water and mud) 1600' @ 10.00/ft		16.000]	
	BOP Rental		750	1	
	Dirt Work		3.000	1	
	Pit Lining		1,500		
	Surface Casing 200' @ 6.00/ft	1,200			
	Casing Head	750	į		
	Cement Surface	, 00	1,500		
	Power Tongs		1,000		
	Casing 1600' @ 4.00/ff.	6,400	.,,,,		
	Trucking	0, 100	2.000		
	Logs		4,000		
	Engineering		1,500		
	Cement Longstring		4,000		
	Total Cost to Run Casing	8,350		48,100	
	7% Contingency	0,000	37,730		İ
				3,367	1
	Grand Total to Run Casing			51,467	
II.	Completion Costs		l cool		1
	Rig Anchors		600		
	Logs		2,000		
	Perf		1,500		
	Wellhead & Fillings	4,000			
	Tubing 1600' @ 1.50/ftStimulation	2,400	!		
			24,000		
	Tool Rental		2,000		
	Trucking		3,000		
	Restore Location		4,000		
			1,500		
	Engineering	r 000	3,000		
	Treator	5.000	1		
	Flowline	5.000	i i		
	Tank & Fittings	4,000	i I		
	Gravel		1,000		
	Workover Rig		7,500		
	Completion Fluids		2,000		
	El Paso Hookup		13,000		
	Division Order		1,000		
	Frac Tank Rental		1,000		
	Flowback	0.000	2,000		
	Fence Location	2,000			
	Total Completion Costs	22,400	69,100	91,500	
	10% Contingency			9,150	
	Drilling Costs		_	51,467	X
	Grand Total Well Costs			152,117	<u>'</u>
			-	 	
	ROPCO 12-4 PC, NW/4				
10.041	% RICHARDSON PRODUCTION COMPANY	APPROVED		DA	ATE _
	% AMOCO PRODUCTION COMPANY	APPROVED			NTE
	% CHRISTMANN MINERAL COMPANY	APPROVED			VIE
	% RODERICK ALLEN MARKHAM	APPROVED			VIE
	% MANON MARKHAM MCMULLEN	APPROVED	Manon he		TE 3-18-95
	% ROSALIND REDFERN	APPROVED	-		ATE
	% KERR-MCGEE CORPORATION	APPROVED			ATE

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