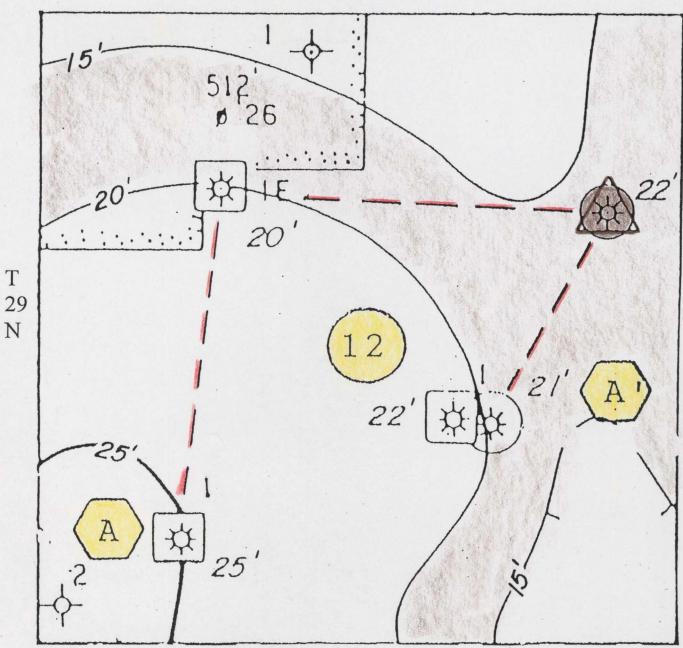
BEFORE THE OIL CONSERVATION DIVISION Case No.11246/11247, Exhibit No.12 Submitted By: Richardson Operating Company Hearing Date: April 6, 1995





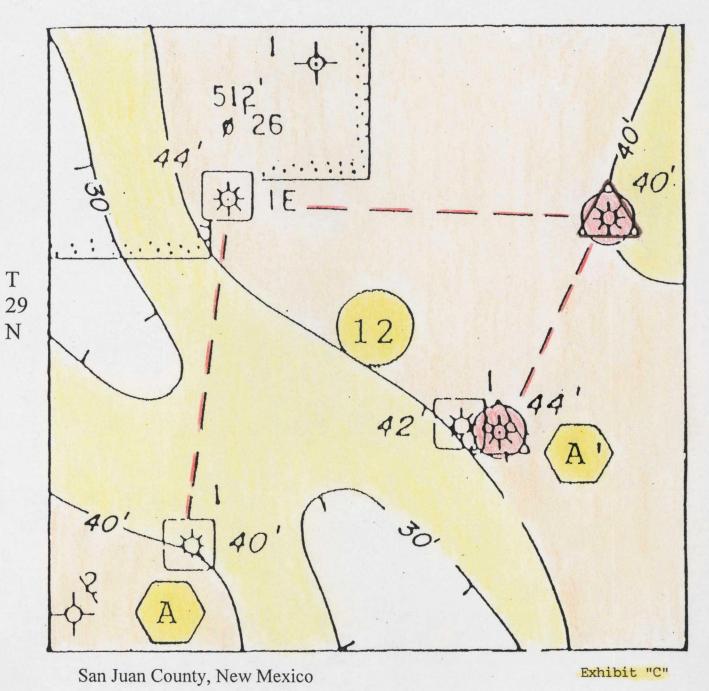
San Juan County, New Mexico

Exhibit "B"

# BASAL FRUITLAND COAL

BEFORE THE<br/>OIL CONSERVATION DIVISION13Case No.11246/11247 Exhibit No.13Submitted By:<br/>Richardson Operating Company<br/>Hearing Date: April \$,1995





UPPER PICTURED CLIFFS SS.

BEFORE THE OIL CONSERVATION DIVISION Case No.11246/11247 Exhibit No.<u>14</u> Submitted By: Richardson Operating Company Hearing Date: April **B**<sup>20</sup>, 1995

# RANDY V. MILLER Certified Petroleum Geologist P.O. Box 5152 Arvada, Colorado 80005 (303) 424-9245

Richardson Operating Company 1700 Lincoln #1700 Denver, Colorado 80302 Attn: Mr. David B. Richardson, President.

RE: W. Gallegos Area Sec. 12, T29N, R13W

Dear Mr. Richardson,

I have completed the geological evaluation of the West Gallegos Area in San Juan County, New Mexico. The specific area of investigation was Section 12, T29N, R13W. The Cretaceous Basal Fruitland Coal Bed and the Upper Pictured Cliffs Sandstone are gas productive in the east-half of Section 12 and will also produce gas in the west-half of the Section. The risk for finding additional gas in this Section is extremely low, and the following is a summary of my findings:

1. Exhibit A. This is a stratigraphic cross-section through Section 12, T29N, R13W. As can be seen, the Basal Fruitland Coal Bed and the Upper Pictured Cliffs Sandstone are both continuous throughout the Section. The Coal averages over 20 feet in thickness, and the Sandstone ranges between 30 feet and 44 feet in thickness. In this area, well log characteristics of gas productivity from the Upper Pictured Cliffs Sandstone are noted by >14% porosity and >5 ohms deep induction resistivity. The Basal Coal is gas productive throughout this part of the San Juan Basin and usually exhibits >25% porosity and >50 ohms deep induction resistivity. These log characteristics are present throughout Section 12.

2. Exhibit B. This is an isopach map of the Basal Fruitland Coal Bed. As can be seen, the Coal ranges between 15 feet and 25 feet in thickness and averages over 20 feet in thickness in Section 12. Wells that are gas productive from the Coal are denoted with triangles.

**3.** Exhibit C. This map is an isopach of porous Upper Pictured Cliffs Sandstone. The Sandstone ranges between 30 feet and 44 feet in thickness in Section 12. Wells that are gas productive from this interval are denoted with circles. p.2, R.V. Miller, W. Gallegos Area, 4/4/95.

E

In summary, the risk for establishing gas production from the Basal Fruitland Coal Bed and the Upper Pictured Cliffs Sandstone in the west-half of Section 12, T29N, R13W, is extremely low. Wells drilled and completed in these zones should be similar to the two Richardson Operating Company wells producing gas in the east-half of the Section.

I hope that this investigation will prove useful in your evaluation of this area, and if additional input is needed, please don't hesitate to call me.

Yours Very Truly, Randy V Miller CPG #2943

#### AFE Comparison 4/6/95

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San Juan County, NM	ļ						
ROPCO Fee 12-4 PC						······································	
vs. Amoco Burnham Gas Com	/A/ PC						
					F. 1 15 15		
	Exhibit 1 Richards	on AEE	Exhibit 2 Richard	son Actual	Exhibit Amoc		
Land	Richarus			Fed 12-1 PC	Ano		ROPCO Fed 12-1 PC located SE/4-Sec 12-T29N-R13W
survey and permits	1	1500.00		2256.00	A	7000.00	
location	AL	1500.00	AL	2230.00		5000.00	
damages	A3	1500.00	12	2500.00	A2	5000.00	
title opinion / Land	A2	1500.00					
restore location	AS	1500.00					
gravel	AG	1000.00					
division order	A7	1000.00					
dirt work	AY	3000.00	A3	1233.00			L
Sub Total	\$	11,000.00	\$	5,989.00	\$	12,000.00	
Drilling							
drilling rig	BI	16000.00	01	16780.00	61	36000.00	
fluids	-101	10000.00	151	10700.0V	62	7000.00	
daywork			f		B3	2160.00	
BOP rental	B2	750.00		1366.00			
pit lining	133	1500.00					
	+	10.000			-		
Sub Total	\$	18,250.00	\$	18,146.00	\$	45,160.00	
Contra			<u>↓</u>				
Casing		1000.00		180-00			
surface string	CI	1200.00		1786.00		8500.00	
casing head cement surface	C2 C3	1500.00		1171.00	<u>C2</u>	1500.00	/
casing crew	C4	1000.00		11/1.00			
production string	C5	6400.00	63	7587.00	†		
cement longstring	C9	4000.00	67	3071.00			
logging	67	4000.00	65	3163.00		······································	
engineering / geo.	68	1500.00	CG	5328.00			
trucking	ca	2000.00	C4	984.00	ļ		
Dub Tatal		22.269.00	+	22.002.00	-	10.000.00	
Sub Total	\$	22,350.00	<u></u>	23,090.00	\$	10,000.00	
Down Hole Comple	tion				<u> </u>		
perforating	D2	1500.00	0	2118.00	<u> </u>		
stimulation	DY	24000.00	יט ב	21192.00		43000.00	)
logs	DI	2000.00	Sec				
tubing	03	2400.00			02	4600.00	
tool rental	DS	2000.00	D3	593.00			
completion fluids	D6	2000.00		111.00			
0.1 m - 1							
Sub Total	\$	33,900.00	\$	24,014.00	\$	47,600.00	
Completing Di	+		<u> </u>		<b> </b>		·····
Completion Rig		7500 00		1001 00	<u> </u>		
rig time daywork	E3	7500.00	E3	4251.00		2100.00	
daywork well head	E2	4000.00	122	6731.00	E2 E1	2100.00	
rig anchors	EL El	600.00	154	475.00		1000.00	1
frac tank rental	E4	1000.00	EY	189.00			
flowback	65	2000.00					
	4						
Sub Total	\$	15,100.00	\$	11,646.00	\$	* 3,100.00	Amoco number unrealistic
Final Completion			ļ				
production facility	<u> </u>	Acce	<u> </u>		FI	*20000.00	Amoco AFE=\$50,000; compression @ \$30,000 is omitte
trucking	EI	3000.00	FI	5680.00		<u> </u>	
El Paso hook-up	ET_	13000.00	F6	13000.00			
battery installation engineering	F2	4000.00 3000.00	F2	2989.00 2695.00	<b>├──</b> ──		
treator	F3 F4	5000.00	1 H 3	4440.00	<u> </u>		+
flowline	ES	5000.00	154 CQ	* 5000.00			ROPCO 12-1 PC actual, as originally produced; does not
tank and fittings	F6 F6	4000.00	FS	4675.00			include subsequent lines to offsite central compression
fence	FB	2000.00		1908.00			
Sub Total	\$	39,000.00	\$	40,387.00	\$	20,000.00	
	+		ļ		ļ		
Contingencies		00.77 0-		<del>_</del>			
drilling	61	3367.00	ļ		62	12000.00	
completion "other"	GZ	9150.00	<u> </u>	······	63	16000.00	
- Ulici				·	61	20400.00	1
Sub Total	\$	12,517.00	\$	-	\$	48,400.00	
······································	<u> </u>						
Total	\$ 152	2,117.00	\$ 12	3,272.00	\$*1	86,260.00	Amoco AFE=\$216,260; compression @ \$30,000 is omit
	1 7 7 7	/		7	<u> </u>	- ,	

BEFORE THE OIL CONSERVATION DIVISION Case No.11246/11247 Exhibit No.15 Submitted By:

#### RICHARDSON OPERATING COMPANY AUTHORITY FOR EXPEDITURES

Well Name: ROPCO Fee 12-4 PC SECTION 12NW/4Location: T29N R13WDeProposed Depth: 1600'O

Date: 3/6/95 Objective Formation: Pictured Cliffs

I.	Drilling Costs (included Run Casing)	Tangible	Infangible	٦	Total	Actual
	Survey and Permils		1,500	AI		
	Title Opinion & Land Costs		1,500	A2	1	
	Damages		1,500	A3	1	
	Drilling (Incl. water and mud) 1600' @ 10.00/(1		16,000			
	BOP Rental		750			
	Dirt Work		3,000	-		
	Pit Uning		1,500			
	Surface Casing 200' @ 6.00/ft	1,200	1 1			
	Casing Head	750		C1 C2		
	Coment Surface	,00	1,500			
	Power Tongs		1,000			
	Casing 1600' @ 4.00/fl.	6,400		C5		
	Trucking	0,400	2,000		ļ	
	Logs				1	
	Englneering		4,000			
	Cement Longstring		1,500 4,000			
		0.050	a statement of the state of the	<u>C9</u>	40,100	
	Total Cost to Run Casing	8,350	· ·	~ .	48,100	
	7% Conlingency		-	GI	3,367	
	Grand Total to Run Casing				51,467	
11.	Completion Costs				,	
	Rlg Anchors		600		}	
	Logs		2,000			
	Perf		1,500	D2		
	Wellhead & Fillings	4,000		E2		
	Tubing 1600' @ 1.50/ft	2,400		D3	1	
	Stimulation		24.000	D4		
	Tool Rental			DS		
	Trucking		3.000			
	Battery Installation		4,000			
	Restore Location		1,500			
	Engineering		3,000	F3		
	Treator	5,000	1	FY		
	FlowIIne	5,000		FS	1	
	Tank & Fittings	4,000		FG		
	Gravel		1,000	A6	[	
	Workover Rlg			E3		
	Completion Fluids		2.000	DG		
	El Paso Hookup		13.000	F7		
	Division Order		1.000			
	Frac Tank Rental		1.000	E4	[	
	Flowback		2,000			
	Fonce Location	2,000		FB		
	Total Completion Costs	22,400	69,100		91,500	
	10% Confingency	•	•	62	9,150	,
	Drilling Costs				51,467	
	Grand Total Well Cosis		-		152,117	

#### ROPCO 12-4 PC, NW/4

10.041% RICHARDSON PRODUCTION COMPANY
83.381% AMOCO PRODUCTION COMPANY
2.077% CHRISTMANN MINERAL COMPANY
1.039% RODERICK ALLEN MARKHAM
1.039% MANON MARKHAM MCMULLEN
1.039% ROSALIND REDFERN
1.384% KERR-MCGEE CORPORATION

APPROVED	DATE
APPROVED	DATE

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Exhibit 2

Co: 90 GALLEGOS DRILLING PROJECT

ccounting Basis:Accrual Closed+UnClosed DRILLING AFE

AFE STATUS REPORT

Well:NM-007-010 ROPCO FED. PC #12-1

	TOTAL AFE # Expenditure To date	AMOUNTS	AMOUNTS Over/under Afe	
rilling Costs:	<b>`</b>			
urvey & Permits	2,256.68 Al	0.00	-2,256.68	
itle Opinion & Land Costs	0.00	0.00	0.00	
ite Damages	2,500.00 AZ	0.00	-2,500.00	
rilling	16,780.19 BI	0.00	-16,780,19	
OP Rental	1,366.59 B2	0.00	-1,366.59	
irt Work	1,233.43 A3	0.00	-1,233.43	,
it Lining	0.00	0.00	0.00	
urface Casing	1,786.15 CI	0.00	-1,786.15	
asing Head	0.00	0.00	0.00	
ement Surface	1,171.98C2	0.00	-1,171,98	
ower. Tongs	0.00	0.00	0.00	
asing	7,587.8503	0.00	-7,587.85	
rucking	984.75 CH	0.00	-984.75	
- Dgs	3,163.04 (5	0.00	-3,163.04	
ngineering	5,213.11 CG	0.00	-5,213.11	
ement Longstring	3,071.90 C7	0.00	-3,071.90	
ravel Expense	0.00	0.00	0.00	
eology	115.74 CG	0.00	-115.74	
oustabouting	0.00	0.00	0.00	
TOTAL DRILLING COSTS	47,231.41	0.00	-47,231.41	
ompletion Costs:				
•				
ig Anchors	475.31 EI	0.00	-475,31	
ogs & Perf	2,118.75 DI	0.00	-2,118.75	
ellhead & Fittings	6,731.80 EZ	0.00	-6,731.80	
Joing	0.00	0.00	0.00	
Limulation	21,192.82 02	0.00	-21,192.82	
ool Rental	593.25 DB	0.00	-593.25	
rucking	5,680.10 FI	0.00	-5,680.10	
attery Installation	90.00 F2	0.00	-90.00	
store Location	0.00	0.00	0.00	
ngineering	21695.55 F3	0.00	-2,695.55	
eator	4,440.93 FU	0.00	-4,440.93	
ovline	5,000 <del>0.00</del> F8	0.00	0.00	Actual prior to central offsite compression
apressor Fittings	0.00	0.00	0.00	to the prior to compression
ink & Fittings	4,675.90 FS	0.00	-4,675.90	
mpressor Installation	0.00 <del>- 376.61</del>	0.00	-376.61	(ampressing amitta) for
aping Unit	0.00	0.00	0.00	Compression omitted from comparison
avel	0.00	0.00	0.00	Υ.
rkover Rig	4,251.17 E3	0.00	-4,251,17	
mpletion Fluids	111.64 D4	0.00	-111.64	
P350	13,000.00 FG	0.00	-13,000.00	
vision Order	0.00	0.00	0.00	
_				
ac Tank Rental	187./4 EQ	0.00	-184.74	
ac Tank Rental ovback nce Location	189.74 E4 0.00	0.00 0.00	-189.74 0.00	

nequested by: ELISA

Page 1

الدوادية لأفاله والمحلفان الدسر فأبيا المالي counting Basis: Accrual Closed+UnClosed DRILLING AFE AFE STATUS REPORT LOF TU GALLEGUS DRILLING PROJECT

#### Page 2 🕔

## Well:NH-007-010 ROPCO FED. PC #12-1

Exhibit 2

	TOTAL EXPENDITURE TO DATE	AFE	AMBUNTS	AMOUNTS OVER/UNDER AFE
ustabouting	2,899.21	F2	0.00	-2,899,21
TOTAL COMPLETION COSTS	71,431.03		0.00	-71,431.03
TOTAL DRILLING COSTS	118,662.44		0.00	-118,662.44
				+ 5,000 - 376 123, 286

# Flowline

Compressor Installation

# Prilling Authorization

•

• •

roperty - Burnham Gas Com N JUAN County, NEW MEXICO perating Field - noco Production Company		erty FLAC - 1895	52		Well FLAC Well Type - Gas
erator: AMOCO PRODUCTION COMPANY I#:	Operations Center: SAN JUAN OC AMOCO's Interest: 0.8338000		LPN#: 687773 Contract#: 000		
rgets - Total Depth: 1581					
Horizon Reg. Fiel	d	Target Depth			
PC		1288			
NW/4					
mplation: Single FNL					
rface Location: 1450' FSL x 1520' FWL	sec. 12 - T29N - R13W				
ttom Hole Location: Same					
st Summary (Development)		Gr	coss Dry Hole	Gross Completion	
Drilling Intangibles		*******			
	•••••		\$36,000	\$36,000	
•	••••••		\$2,160 B3		£2=\$2100
	••••••		\$5,000	\$5,000	
•	• • • • • • • • • • • • • • • • • • • •		\$5,000	\$7,000	
	••••••••••••		\$7,000	\$7,000	
	· · · · · · · · · · · · · · · · · · ·		\$0	\$43,000	
Other:	••••••••••••••••••••••••••••••••••••	• • • • • • • •	\$13,000	\$20,400 (	ŝl
Total Intangible: Well Equipment - Tangibles		••••••	\$68,160	\$122,660	
			69: E00	60 E00 I	<b>~</b> ,
			\$8,500	\$8,500 (	
			\$0	\$4,600	
			\$1,500.CZ \$0	\$2,500 j \$0	EI = \$1000
	•••••••••••••••••••••••••••••••••••••••		şu	şu	
Total Tangible:			\$10,000	\$15,600	
			\$12,000 G2		3= 116,000
				\$50,000 P	1 = 1 20,000
•				\$0	1 20,000
-					
Total This Request:	•••••••••••••••••••••••••••••		\$90,160	\$216,260	
	•••••••••••••••••••••••••••••••••••	• • • • • • •	\$0	\$0	
Total to Date Estimate:	••••••		\$90,160	\$216,260	
		X		- 30,000	
otice to Non-Operator: Cost shown on t				\$ 186, 26	o'
orm are estimates only. Non-Operators		•		·	
ot consider these estimates as establing limit on the monies which will be r				Date:	<u>_</u>

ontacts:

Technical GREG E GROTXE P O BOX 800 DENVER, CO, 80201-0800 303-830-4079 303-830-4777 FAX Business Julia A Jenkins P O BOX 800 DENVER, CO, 80201-0800 (303) 830-4844 (303) 830-4777 FAX

# AFE Comparison 4/6/95

San Juan County, NM				
ROPCO Federal 12-3 (A)	PC, (B) FC			
vs. Amoco Burnham Gas Con	ALAC EC			
Amoco Burnham Gas Con	1/B/ FC, FC			
	Exhibit 1	Exhibit 2	Exhibit 3	
	Richardson AFE	Richardson Actual	Amoco AFE	
Land		ROPCO Fed 12-2 PC,FC		ROPCO Fed 12-2 PC, FC located NE/4-Sec 12-T29N-R13W
	Ai 1500.00	A) 2814.00		······································
location	1500.00	* * 2500.00	AI 5000.00	
	A3 1500.00 A2 1500.00	A3 * 2500.00 A2 1881.00		Used actual for ROPCO 12-1. ROPCO 12-2 actual unrepresentative because well located in upscale residentia
	AS 1500.00	A4 1089.00		neighborhood
gravel	A6 1000.00	A5 1255.00		
	A7 1000.00		<u>`</u>	
dirt work	A43000.00			
Sub -Total	\$ 11,000.00	\$ 9,539.00	\$ 14,000.00	
	• • • • • • • • • • • • • • • • • • • •	•	• 1,000,00	
Drilling				
	BI 16000.00	BI 20334.00		
fluids			83 7000.00	
daywork BOP rental	B2 750.00		B2 2160.00	1
	B2 750.00 B3 1500.00	B2 766.00	, 	
Sub Total	\$ 18,250.00	\$ 21,100.00	\$ 45,160.00	
Casina				
Casing surface string	CI 1200.00	CI 1086.00	) C [ 8500.00	l
casing head	C2 750.00		EZ 1500.00	
cement surface	C3 1500.00	CZ 2229.0		
casing crew	СЧ 1000.00			
production string	CS 8000.00 C9 4000.00	<u>C3</u> 2618.0		
cement longstring logging	C9 4000.00 C7 4000.00	C7 3130.0 C5 3649.0		· · · · · · · · · · · · · · · · · · ·
	CB 1500.00	CG 2732.0		
trucking	CG 2000.00	C4 279.0		
Cub Trul	\$ 23,950.00	\$ 15,723.00	f 10,000,00	
Sub Total	\$ 23,950.00	\$ 13,723.00	\$ 10,000.00	
Down Hole Completi	on			
	D2 4000.00			
	04 48000.00	D3 47401.00		
logs tubing	Di 2000.00 D3 2400.00	D1 3785.00 D2 2003.00		
tool rental	D3 2400.00 D5 2000.00	D4 5368.0		
completion fluids	D6 2000.00	D.5 1097.0		
	to 400.00			
Sub Total	\$ 60,400.00	\$ 59,654.00	\$ 74,600.00	
Completion Rig				
	E3 15000.00	E3 17300.0	)	
daywork			E1 4200.00	
	E2 4000.00	E2 3522.0	EZ 1000.00	
rig anchors frac tank rental	EI 600.00 E4 1000.00	EI 627.00 F-4 1897.00		
	EG 2000.00		í	
	×			
Sub Total	\$ 22,600.00	\$ 23,346.00	\$ \$ 5,200.00	*Amoco number unrealistic
Final Completion				
Final Completion production facility			FI *20000.00	Amoco AFE=\$50,000; compression @ \$30,000 is omittee
	F1 3000.00	FI 5075.0	D	Anoco AL 2-000,000, compression @ \$50,000 is omilied
El Paso hook-up	F7 13000.00	FG *13000.0		*Actual = 0; unrepresentative, so added in expected
	F2 4000.00	FB 2265.0		
	F3 5500.00 도닉 5000.00	FZ 12381.0 F3 4287.0		
	FJ 5000.00 FS 5000.00	F4 *5000.0		Used actual for ROPCO 12-1 well as originally produced
tank and fittings	FG 4000.00	FS 4905.0		ROPCO 12-2 well unrepresentative due to offsite producti
	FB 2000.00	F7 1104.0	)	facilities
Sub Total	\$ 41,500.00	\$ 48,017.00	\$ 20,000.00	
JUD IUKI	φ <u>41,500.00</u>	<u>⊅ 48,017.00</u>	\$ 20,000.00	· · · · · · · · · · · · · · · · · · ·
Contingencies				
drilling	G1 3479.00		G2 12000.00	
completion	G2 12800.00		G3 22000.00	
"other"			GI 27800.00	1
Sub Total	\$ 16,279.00	\$ -	\$ 61,800.00	<u> </u>
			1	
Total	\$ 193,979.00	\$ 177,379.00	\$*230,760.00	*AMOCO AFE=\$260,760; compression @ \$30,000 is omi

OIL CONSERVATION DIVISION Case No.11246/11247 Exhibit No.10

Submitted By:

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#### RICHARDSON OPERATING COMPANY AUTHORITY FOR EXPEDITURES

Well Name: ROPCO Fee 12-3 (A) PC, (B) FC SECTION 12 PC SW/4, FC W/2 Location: 129N R13W Date: 3/6/95 Proposed Depth: 1600' Objective Formation: Commingled Pictured Cliffs and

Fruitland Coal

,

I. Drilling Costs (Included Ru		Tangible	Inlangible		otal	Aclual
Survey and Permils		-	1,500	AI	T	
Tille Opinion & Land Costs			1,500	A2	[	
Damages			1,500	A3	1	
Drilling (Incl. water and mu			16.000			•
BOP Rental			750			
Dirt Work			3.000			
Pli Uning			1,500			
Surface Casing 200' @ 6.00		1,200	1,000	CI		
Casing Head		750				
		750		C2		
Cement Surface			1,500			
Power Tongs			1,000	C4		
Casing 1600' @ 5.00/(1		8,000		C5		
Trucking			2,000			
Logs			4,000	C7		
EnglneerIng			1,500	62		
Cement Longstring			4.000	62		
Total Cost to Run Casin	g	9,950	39,750	ŀ	49,700	
7% Contingency				้ดเ	3,479	
-	Casing				53,179	
I. Completion Costs	Cosing				00,177	l
Rig Anchors			600	رعا		ł
Logs			2.000			
Perf						
		4 000	4,000			
Wellhead & Fillings		4.000		E2		
Tubing 1600' @ 1.50/ft		2,400	1	03		
Stimulation			48,000			
Tool Rental			2,000			
Trucking			3.000	FI		
Battery Installation			4,000	F2		
Restore Location			1,500	A5		
Engineering			5,500	F3		
Treator		5,000		FY		
Flowline		5,000		F5		
Tank & FIIIIngs		4,000		F6		
Gravel			1,000			
Workover Rig			15,000			
Completion Fluids			2,000	06		
El Paso Hookup			13,000			
Division Order			1.000			
Frac Tank Rental			1.000			
Flowback			2.000			
Fence Location		2,000		F8		l
Total Completion Costs		22,400			120.000	1
10% Conlingency		22,400	ų 105,000		128,000	•
				62	12,800	
-					53,179	
Grand Total Well Cos	15			-	193,979	
						-
ROPCO 12-3 (A) PC, SW/4	ļ					
208% RICHARDSON PRODUCTIC	ON COMPANY	APPROVED			DA	1E
000% AMOCO PRODUCTION C	OMPANY	APPROVED				TE
250% CHRISTMANN MINERAL CO		APPROVED				TE
125% RODERICK ALLEN MARKH		APPROVED				TE
125% MANON MARKHAM MCM		APPROVED		· · ·		TE
125% ROSALIND REDFERN		APPROVED				TE
167% KERR-MCGEE CORPORAT	ION	APPROVED	••••••••••••••••••••••••••••••••••••••		DA	
	· <del>-</del> · ·	,	<u> </u>	•		······································
ROPCO 12-3 (B) FC, W/2						,
124% RICHARDSON PRODUCTIC						
					,	

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

בריקטוורדונק קברביים הרייסיר הייסי ארייסיר איזיייים אייסיר אייסיר אייסיר אייסיר אייסיר אייסיר אייסיר אייסיר אייסי	AFE STATUS			Well:WM-010-002 ROPCO FEDERAL 12-2 PC, FC
	TOTAL AFE AN EXPENDITURE TO DATE	IOUNTS	AMOUNTS OVER/UNDER AFE	Exhibit Z
Drilling Costs:				
Survey & Permits	2.814.68 AI	0.00	-2,814.68	
Title Opinion & Land Costs	1,831.51 A2	0.00	-1,881.51	
Site Damages	2,500° A3	0.00		"Used actual for Ropco 12-1 PC; Ropco 12-2 PC, FC
Drillling	20,334.36 BI	0.00	-20,334.36	actual unrepresentative because well located
BOP Rental	0.00	0.00	0.00	
Dirt Work	0.00	0.00	0.00	in upscale residential neighborhood
Pit Lining	766.42 B2.	0.00	-766.42	
Surface Casing	1,086.73 C1	0.00	-1,086,73	
Casing Head	0.00	0.00	0.00	
Cenent Surface	2,229,1002	0.00	-2,229.10	
Power Tongs	0.00	0.00	0.00	
Casing		0.00	-2,618.57	
irucking	2,618.57 (3			
Logs	279.81 C4	0.00 0.00	-279.81	
-	3,649.57 05		-3,649.57	
Engineering	2,732.80 CG	0.00		
Cement Longstring	3,130.21 C7	0.00		
Travel Expense	0.00	0.00	0.00	
Geology Device the state of the	0.00	0.00		
Roustabouting	0.00	0.00	0.00	
TOTAL DRILLING COSTS		0,00	·	
Completion Costs:			· · · · · · · · · · · · · · · · · · ·	
Rig Anchors	627.41 E1	0.00	-627.41	
Logs & Perf	3,785.67 01	0,00	-3,785.67	
Wellhead & Fittings	3,522.24 EZ	0.00	-3,522.24	
Tubing	2,003.36 D2	0.00	-2,003.36	
Stinutation	47,401.66 D3	0.00	-47,401.66	
Tool Rental	5,368.49 04	0.00	-5,368.49	
Trucking	5,075.57 FI	0.00	-5,075.57	
Battery Installation	0.00	0.00	- 0.00	
Restore Location	1,088.99 AH	0.00	-1,088.99	· · · ·
Engineering	12,380.52 F2	0.00	-12,380.52	
Treator	4,287.32 F3	0.00	-4,287.32	
Flouline	5000 F4	0.00		<sup>2</sup> Used actual for ROPCO 12-1 PC, as originally
Compressor Fittings	0.003	0.00	)	produced; ROPCO 12-2 PC, FC actual unrepresenta-
Tank & Fillings	4,905.23 85	0.00	-4,905,23	tive because production facilities offsite
Compressor Installation	0.00	0.00		
Pumping Unit	398.13 E 3	0.0(	-398.13	<sup>3</sup> Compression amitted from comparison
Gravel	1,255.23 AS	0.00		
Norkover Rig	16,903.52 E3	0.00		
Completion Fluids	1,097.50 05	0.00		
El Paso	13.0004 FG			" Actual = A: unce are sentative an odded in
Division Order	0.00	0.00	0.00	" Actual = 0; unrepresentative, so added in actual for ROPCO 12-1 PC
Frac Tank Rental	1,897.27 E4	0.0		
Flowback	0.00	0.0		
Fence Location	1,104.00 F7	0.0		
Roustabouting .	2,264.81 F8	0.0		
	. 2			
1				

•	AFE	STATUS REPORT		Well:NN-010-002 ROPCO FEDERAL 12-2 PC;FC
	TOTAL Expenditure To date	AFE AMOUNTS	AMOUNTS OVER/UNDER AFE	Exhibit 2
TOTAL COMPLETION COSTS		0.00		
TOTAL DRILLING COSTS	243,862.94	0.00	-243,862.94	
	+ actual is - unreprese + actual is	2-1 site dan Intative flou 1-1 flowlin 1350r fittin	nages wline (of e qs (Omitte	(residential) Site facilities) ed from comparison)
	177,391			

	- , .		Exhibit 3		
illina /	Authorizati	on	······································		
perty - Bi	umham Gas Cor New MEXICO		Property FLAC - 18	39553	Well FLAC - Well Type - Gas
ator: AMOCO P :	PRODUCTION COMPANY	Operations Center: SAN 3 AMOCO's Interest: 0.5000		LPN#: 687774 Contract#: 000000	0
ments to Partn	illing and facili PC/TT commingled	te is revised to include a ties and the PC completi dual. The other portion 1 be allocated to the Fra	ion in the proposed of the drilling a		
gets - Total D Korizon PC	Depth: 1664 n Rog. Fiel	.đ	Target Depth 1381		
letion: Singl	Le				
ace Location:	: 850' FSL x 1230' FWL	sec. 12 - T29N - R13W			
com Hole Locat	tion: Same				
Summary (Dev	velopment) ng Intangibles		G:	ross Dry Hole Gr	oss Completion
	Day Work: Location: Survey: Mud: Stimulation:	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	\$18,000Bi \$1,080 G2 \$2,500 Ai \$2,500 A2 \$3,500 B3 \$0 \$6,500 Gi	\$18,000 \$3,180 E(= \$2,100 \$2,500 \$4,500 A2 = \$2,000 \$3,500 \$32,000 D( \$12,900 G( =\$7,400
	Total Intangible:	:		\$34,080	\$77,580
Well Equip	-	:		\$4,250 \$0	\$4,250 Cl \$2,300 D2
	Wellhead:	:	• • • • • • • • • • • • • • • • • • • •	\$750 \$0	\$1,250 E2 \$0
	Wellhead: Other: Total Tangible: Contingency: ed Production Facility:	·		\$750 \$0 \$5,000 \$6,000 G2	\$1,250 E2 \$0 \$7,800 \$17,000 G3= £ 11,000 \$25,000 F1 ~ \$ 10,000 (\$15,000,
Direc	Wellhead: Other: Total Tangible: Contingency: ed Production Facility: ct Production Facility: Total This Request: Previous Estimate:	·		\$750 \$0 \$5,000 \$6,000 G2	\$1,250 E2 \$0 \$7,800 \$17,000 G3= \$11,000
Direc ice to Non-Op m are estimate	Wellhead: Other: Total Tangible: Contingency: ed Production Facility: at Production Facility: Total This Request: Previous Estimate: Total to Date Istimate: erator: Cost shown on t es only. Non-Operators	this Non should		\$750 \$0 \$5,000 \$6,000 G2  \$45,080 \$0 \$45,080	\$1,250 E2 \$0 \$7,800 \$17,000 G3= \$11,000 \$25,000 F1 ~ \$10,000 (\$15,000 \$0 \$127,380 \$127,380 \$127,380
Direction Non-Op- mare estimation of the second sec	Wellhead: Other: Total Tangible: Contingency: ed Production Facility: ot Production Facility: Total This Request: Previous Estimate: Total to Date Estimate: erator: Cost shown on t es only. Non-Operators se estimates as estable monies which will be o	: : : : : : : : : : : : : :		\$750 \$0 \$5,000 \$6,000 G2  \$45,080 \$0 \$45,080	\$1,250 E2 \$0 \$7,800 \$17,000 G3= \$11,000 \$25,000 F1 ~ \$ 10,000 (\$15,000 Compression omitted \$127,380 \$0
Direction Non-Op- mare estimation of the second sec	Wellhead: Other: Total Tangible: Contingency: ed Production Facility: ot Production Facility: Total This Request: Previous Estimate: Total to Date Estimate: erator: Cost shown on f es only. Non-Operator: se estimates as establi	: : : : : : : : : : : : : :		\$750 \$0 \$5,000 \$6,000 G2  \$45,080 \$0 \$45,080	\$1,250 E2 \$0 \$7,800 \$17,000 G3= \$11,000 \$25,000 F1 ~ \$10,000 (\$15,000 \$0 \$127,380 \$127,380 \$127,380
Direction Non-Op- mare estimate consider the plimit on the	Wellhead: Other: Total Tangible: Contingency: ed Production Facility: ot Production Facility: Total This Request: Previous Estimate: Previous Estimate: erator: Cost shown on t es only. Non-Operators se estimates as established monies which will be a proposed operation. Technical GREG E GROTKE	: : : : : : : : : : : : : :		\$750 \$0 \$5,000 \$6,000 G2  \$45,080 \$0 \$45,080  E	\$1,250 E2 \$0 \$7,800 \$17,000 G3= & 10,000 \$25,000 F(~ \$10,000 (\$15,000) \$0 \$127,380 \$127,380 \$127,380 \$127,380
Direction Non-Op- m are estimate consider the limit on the perform the p	Wellhead: Other: Total Tangible: Contingency: ed Production Facility: at Production Facility: Total This Request: Previous Estimate: Total to Date Estimate: erator: Cost shown on t es only. Non-Operators se estimates as establis monies which will be s roposed operation. Technical	: : : : : : : : : : : : : :		\$750 \$0 \$5,000 \$6,000 G2  \$45,080 \$0 \$45,080  F	\$1,250 E2 \$0 \$7,800 \$17,000 G3= \$11,000 \$25,000 F1 ~ \$10,000 (\$15,000 \$0 \$127,380 \$127,380 \$127,380 \$127,380 \$127,380 PC AFE

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Exhibit 3

# Prilling Authorization

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N JUAN Coun perating Field - noco Productio			FT, Well# 1 Property FLAC - 189553			Well FLAC - Well Type - Gas	
erator: AMOCO	PRODUCTION COMPANY	Operations Center: SA ANOCO's Interest: 0.5		LPN#: 687774 Contract#: 000000			
mments to Par	ngled dual. The		e proposed PC/FT commi drilling and facilitie				
rgets - Total	Depth: 1664						
Horiz	on Reg. Fiel	Ld	Target Dept	ከ			
T			114	0			
apletion: Sin	gle						
rface Locatio	n: 850' FSL x 1230' FWL	sec. 12 - T29N - R13W					
ttom Kole Loo	ation: Same						
st Summary (D	evelopment)			Gross Dry Hole Gross	Completion		
Drill	ing Intangibles			*			
		• • • • • • • • • • • • • • • • • • • •		\$18,000 Bi	\$18,000		
		• • • • • • • • • • • • • • • • • • •		\$1,080 32	\$3,180 E	= \$2,60	
		:		\$2,500 AI	\$2,500		
		:		\$2,500 A2	\$4,500 A2	≈ \$ 2,000	
		• • • • • • • • • • • • • • • • • • • •		\$3,500 B3	\$3,500		
		:		\$0	\$38,000 DI		
	Other			\$6,500G[	\$13,900 6 (	= # 7, 400	
	Total Intangible	:		\$34,080	\$83,580		
Well Eco	ipment - Tangibles			401/000	***/***		
		:		\$4,250	\$4,250 CI		
		:		\$0	\$2,300 57		
	Wellhead	:		\$750	\$1,250 E2	•	
	Other	:	. <i>.</i>	\$0	\$0 5		
•							
	-	• • • • • • • • • • • • • • • • • • • •		\$5,000	\$7,800	<b>A</b> .1.	
• • • • •		:		\$6,00062	\$17,00063	- \$11,000	
	ted Production Facility ect Production Facility				\$25,000 FI	· \$ 10,000 (\$ 15,000	
DII	edt Floduction Facility		· · · · · · · · · · · · · · · · · · ·	• • • • • • • • • • • • • • • • • • • •	\$0	compression omitted	
	Total This Romest			\$45,080	\$133,380		
				\$0	\$133,380		
	Total to Date Estimate			\$45,080	\$133,380		
	perator: Cost shown on t		Non-Operator:			······	
	ites only. Non-Operator: use estimates as establ:		By:	Date			
y limit on th	e monies which will be proposed operation.		-1		۰ ــــ <del>ــــــــــــــــــــــــــــــــ</del>	<u> </u>	
	Technical		<b>•</b>				
ntantd'							
ntaots:	GREG E GROTKE		Business Julie A Jenkins				

Technical GREG E GROTKE P O BOX 800 DENVER, CO, 80201-0800 303-830-4079 303-830-4777 FAX

Julie A Jenkins P O BOX 800 DENVER, CO, 80201-0800 (303) 830-4844 (303) 830-4777 FAX

and the second second

# Economic Comparisons-W/2-Section 12-T29N-R13W San Juan County, NM

The following parameters were held constant, both for ROPCO and Amoco:Working Interest100%Net Revenue Interest80%First day of ProductionJanuary 1, 1996State, Severance and Ad Valorem Tax8.26%Escalation of operating costs3% annually after 12/96Water Injection Costs (\$/bbl)1.25Gas Price (\$/MCF)1.39, escalated 3% annually after 12/96

Performance:	<b>Pictured</b> Cliffs	P. Cliffs & Fruitland C.
Gas initial Rate (MCF/day)	600	850
Gas annual decline rate	10%	10%
Initial water production rate (bbl/day)	60	75
Water annual decline rate	10%	10%

The values that varied between ROPCO and Amoco are:

-	Drilling	and	completion	costs	
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- Operating costs	BEFORE THE		
- Compression	OIL CONSERVATION DIVISION		
A.	Case No.11246/11247 Exhibit No. 🗂		
	Submitted By:		
	Richardson Operating Company		
A: Pictured Cliffs	Hearing Date: April 20, 1995		

The cost to drill and complete a Pictured Cliffs well is \$123,272 for ROPCO and \$186,260 for Amoco, as taken from ROPCO's adjusted actual costs (E/2-12) and Amoco's AFE. See Appendix I for tabulation of monthly lease operating costs.

**Case 1:** Compressors are rented, maintenance free. Monthly rental payment is \$1,646 for ROPCO (bid received) and \$2,500 for Amoco (from AFE).

	ROPCO	AMOCO	Variance
Gas Reserves (MCF)	1,793,491	1,644,490	149,001
Life of Project to Economic Limit (yrs, mos)	19, 1	15, 1	4, 0
Net Cash Flow (Undiscounted)	\$1,122,858	\$752,576	\$370,282
Net Cash Flow (Discounted at 10%)	\$647,115	\$445,488	\$201,627
Profit / Investment Ratio	9.11	4.04	5.07
Total Capital Expenses	\$123,272	\$186,260	(\$62,988)

**Case 2:** Compressors are purchased and financed over 4 years at 9% annually. The purchase prices are \$85,000 for ROPCO (bid received) and \$120,000 for Amoco. For Amoco, an additional run was made with 5 years of financing at 9% annually (from AFE).

	ROPCO	AMOCO	<u>.</u>
	4 year plan	4 year plan	Variance
Gas Reserves (MCF)	1,945,447	1,902,962	42,485
Life of Project to Economic Limit (yrs, mos)	26, 4	23, 8	2, 8
Net Cash Flow (Undiscounted)	\$1,475,492	\$1,221,232	\$254,260
Net Cash Flow (Discounted at 10%)	\$725,403	\$580,123	\$145,280
Profit / Investment Ratio	11.97	6.56	5.41
Total Capital Expenses	\$123,272	\$186,260	(\$62,988)

**Case 3:** Both ROPCO and Amoco buy used compressors for \$65,000 (from Amoco AFE, plus \$35,000 to bring to -0- hours). ROPCO and Amoco differ only in drilling, completing and operating costs. Reliable compressors, for the size anticipated, are not generally available at this price.

	ROPCO	AMOCO	Variance
Gas Reserves (MCF)	1,945,447	1,902,962	42,485
Life of Project to Economic Limit (yrs, mos)	26, 4	23, 8	2, 8
Net Cash Flow (Undiscounted)	\$1,514,127	\$1,302,546	\$211,581
Net Cash Flow (Discounted at 10%)	\$745,739	\$635,380	\$110,359
Profit / Investment Ratio	8.04	5.18	2.86
Total Capital Expenses	\$188,272	\$251,260	(\$62,988)

# **B: Pictured Cliffs and Fruitland Coal Commingled Completion**

The cost to drill and complete a Pictured Cliffs-Fruitland Coal well is \$177,379 for ROPCO and \$230,760 for Amoco, as taken from ROPCO's adjusted actual costs (E/2-12) and Amoco's AFE. See Appendix I for tabulation of monthly lease operating costs.

**Case i:** Compressors are rented, maintenance free. Monthly rental payment is \$1,646 for ROPCO (bid received) and \$2,500 for Amoco (from AFE).

	ROPCO	AMOCO	Variance
Gas Reserves (MCF)	2,664,670	2,518,257	146,413
Life of Project to Economic Limit (yrs, mos)	22, 7	18, 7	4, 0
Net Cash Flow (Undiscounted)	\$1,953,016	\$1,507,601	\$445,415
Net Cash Flow (Discounted at 10%)	\$1,061,496	\$856,272	\$205,224
Profit / Investment Ratio	11.01	6.53	4.48
Total Capital Expenses	\$177,379	\$230,760	(\$53,381)

**Case ii:** Compressors are purchased and financed over 4 years at 9% annually. The purchase prices are \$85,000 for ROPCO (bid received) and \$120,000 for Amoco. For Amoco, an additional run was made with 5 years of financing at 9% annually (from AFE).

	ROPCO 4 year plan	AMOCO 4 year plan	Variance
Gas Reserves (MCF)	2,813,064	2,771,902	41,162
Life of Project to Economic Limit (yrs, mos)	29, 9	27, 2	2, 7
Net Cash Flow (Undiscounted)	\$2,408,177	\$2,131,456	\$276,721
Net Cash Flow (Discounted at 10%)	\$1,149,181	\$1,011,177	\$138,004
Profit / Investment Ratio	13.58	9.24	4.34
Total Capital Expenses	\$177,379	\$230,760	(\$53,381)

**Case iii:** ROPCO and Amoco buy used compressors for \$65,000 each (from Amoco AFE, plus \$35,000 to bring to -0- hours). ROPCO and Amoco differ only in drilling, completing and operating costs. Reliable compressors, for the size anticipated, are not generally available at this price.

	ROPCO	AMOCO	Variance
Gas Reserves (MCF)	2,813,064	2,771,902	41,162
Life of Project to Economic Limit (yrs, mos)	29, 9	27, 2	2, 7
Net Cash Flow (Undiscounted)	\$2,446,812	\$2,212,770	\$234,042
Net Cash Flow (Discounted at 10%)	\$1,169,517	\$1,066,434	\$103,083
Profit / Investment Ratio	10.09	7.48	2.61
Total Capital Expenses	\$242,379	\$295,760	(\$53,381)

# **C: Additional Case Comparisons**

ROPCO purchases \$85,000 compressor and finances over 4 years at 9% annually. Amoco buys new compressor and leases it to all interest owners for \$2,500/mo, maintenance free. The following economic comparison does not reflect Amoco's actual profits (which are considerably more favorable), but is a reflection of economics for all other interest owners under Amoco's operatorship.

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## **Pictured Cliffs Completion**

	ROPCO	AMOCO	Variance
Gas Reserves (MCF)	1,945,447	1,644,490	300,957
Life of Project to Economic Limit (yrs, mos)	26, 4	15, 1	11, 3
Net Cash Flow (Undiscounted)	\$1,475,492	\$752,576	\$722,916
Net Cash Flow (Discounted at 10%)	\$725,403	\$445,488	\$279,915
Profit / Investment Ratio	11.97	4.04	7.93
Total Capital Expenses	\$123,272	\$186,260	(\$62,988)

## Pictured Cliffs-Fruitland Coal Commingled Completion

	ROPCO	AMOCO	Variance
Gas Reserves (MCF)	2,813,064	2,518,257	294,807
Life of Project to Economic Limit (yrs, mos)	29, 9	18, 7	11, 2
Net Cash Flow (Undiscounted)	\$2,408,177	\$1,507,601	\$900,576
Net Cash Flow (Discounted at 10%)	\$1,149,181	\$856,272	\$292,909
Profit / Investment Ratio	13.58	6.53	7.05
Total Capital Expenses	\$177,379	\$230,760	(\$53,381)

**Case 4:** Subject to being named operator of both the Pictured Cliffs well and the Pictured Cliffs/Fruitland Coal well, ROPCO would set centralized compression. See Appendix I for drilling, completing and operating costs:

#### **Pictured Cliffs Completion**

	ROPCO
Gas Reserves (MCF)	1,963,357
Life of Project to Economic Limit (yrs, mos)	27, 8
Net Cash Flow (Undiscounted) \$	51,582,931
Net Cash Flow (Discounted at 10%)	\$775,525
<b>Profit / Investment Ratio</b>	13.27
Total Capital Expenses	\$119,272

#### Pictured Cliffs-Fruitland Coal Commingled Completion

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#### APPENDIX I

# OPERATING COSTS CALCULATIONS

Cases (1) and (i), compressors ar	e rented, maintenance	free.
	ROPCO	AMOCO
Overhead	450	500
Pumper	275	275
Compressor Rental	1,646	2,500
District Office	0	300
TOTAL	2,371	3,575

Cases (2) and (ii), compressors are purchased and financed over a period of years.

	ROPCO	AMOCO	AMOCO
	4 year plan	4 year plan	5 year plan
Overhead	450	500	500
Pumper	275	275	275
Compressor Monthly Payment*	2,115	2,986	2,500
<b>Compressor Maintenance</b>	400	400	400
District Office	0	300	300
TOTAL	3,240	4,461	3,975

\* This expense takes effect only for the period over which the purchase is financed.

Cases (3) and (iii), used compres	sors are purchased.	
	ROPCO	AMOCO
Overhead	450	500
Pumper	275	275
Compressor Maintenance	400	400
District Office	0	300
TOTAL	1125	1475

Cases (4) and (iv), ROPCO named Operator of both wells, compression centralized.

ROPCO drilling/completing costs: \$119,272 PC, \$173,379 PC/FC (ROPCO actual adjusted E/2-12, less 1/2 El Paso hookup, plus \$2,500 additional flowline per well)

	ROPCO
Overhead	450
Pumper	275
Compressor Monthly Payment*	1493
Compressor Maintenance	250
District Office	0
TOTAL	2468

\* This expense is split between the two wells, and takes effect only for the period over which the purchase is financed

GCU #536 GCU #537 GALLEGOS ETAL #96-E HANLEY #1 HOOD G #1 FARMINGTON #1 FARMINGTON A #1 FARMINGTON A #1-E WELL ABREVIATION RVIN COM #1 RVIN COM #1-E JG COM-C #1-E JGU C #1 LESLE K BLANCO COM #1 BLANCO #1-E BRIMHALL S W #1 HUTCHINSON HG COM #1-E HGU #1H06 FROELIGH #1 GALLEGOS #77 GALLEGOS #96 GC #102 SCOTT #1-E SHIOTANI #2 SHIOTANI #3 SMITH #1 ROPCO #6-1 ROPCO 7 #1 FEDERAL #15 GCU #108-E G CU #109 GCU #109 GCU #109 GCU #13-1 GSU #383 GCU #385 ROPCO #12-2 SV #1 M. MESA #1 M. MESA #1 RCOM #1 RGC-B #1-E GC #102E G.C. #109E G.C.U #387 G.C.U #502 G.C.U #503 GCU #108 MCILROY #1 DUSTIN #1-E ROPCO #12-1 GCU #500 GCU #501 BGC #1-E **REDFR #1** SCOTT #1 1# NILLSUG 1# NILSUG GCU #535 FCOM #1 FU-A #1 BGU #1 FT #1-E FTU #1 BBA #1 OIL CONSERVATION DIVISION Case No.11247 Exhibit No.18 BEFORE THE GALLEGOS CYN UNIT #108-E GALLEGOS CANYON U #387 GALLEGOS CANYON U #502 GALLEGOS CANYON U #503 JOHNSON GAS COM-C #1-E GALLEGOS CYN UNIT #108 GALLEGOS CYN UNIT #109 GALLEGOS CYN UNIT #500 GALLEGOS CYN UNIT #501 ROBERTS GAS COM-B #1-E FARMINGTON A #1-E FARMINGTON COM #1 FARMINGTON UNIT-A #1 GALLEGOS CANYON #102 GALLEGOS CANYON #102E GALLEGOS CANYON #109E GALLEGOS CYN UNIT #382 GALLEGOS CYN UNIT #13-1 GALLEGOS CYN UNTT #383 GALLEGOS CYN UNTT #386 GALLEGOS CYN UNTT #536 GALLEGOS CYN UNIT #537 GALLEGOS ETAL #96-E BURNHAM GAS COM #1-E GALLEGOS CYN UNIT #535 HUTTON GAS UNIT #1H06 JOHNSON GAS UNIT-C #1 BLANCO 29-12 COM BLANCO 29-12-COM #1-E FARM TOWNSITE #1-E FARM TOWNSITE UNIT #1 HUTTON GAS COM #1-E ROBERTS GAS COM B #1 BRIMHALL S W #1 BURNHAM GAS COM #1 ROPCO FEE 12 PCFC #2 MOONLIGHT MESA #1 MOONLIGHT MESA #1 ROPCO FEE 12 PC #1 BRANDNER B'A #1 FARMINGTON A #1 FC ROPCO FEE 7 #1 FEDERAL #15 FC ROPCO FEE #6-1 Submitted By: **IR VIN COM #1-E** FARMINGTON #1 SCHENKE V #1 SHIOTANI #2 SHIOTANI #3 **IRVIN COM #1** GALLEGOS #77 GALLEGOS #96 HUTCHINSON **DUSTIN #1-E** FROELIGH #1 MCILROY #1 SCOTT #1-E HANLEY #1 HOOD G #1 REDFERN #1 **I# NILSUG** LESLIEK DUSTIN #1 Well Name SCOTT #1 SMITH #1 ROPCO7#1/ROPCO/FC BLANCO #1-E / MERIDIAN / GH HGU #1H06 / AMOCO / DK GALLEGOS #96 / AMOCO / DK . G.C.U #502/BHP/PC. . GALLEGOS ETAL #96-E/AMOCO/GR DUSTIN #1-E / CONOCO / CH ¢₽ . . . . . . . . . . . . GSU #383 / BHP / FC SHIOTANI #3 / MARALEX / FC \$ G.C. U #503 / BHP / PC MCILROY #1 / GILBREATH / PC ROPCO #6-1 / TEXAKOMA / FC HOOD G #1 / DEMP / PC \$ GCU #537 / BHP / 00 \$ D JGU C #1 / PANAM / DK · - 18 - -HG COM #1E / AMOCO / GH DUSTIN #1 / REDF / DK JG COM-C #1E / AMOCO / GR LESUE K / GILBREATH / PC SHIOTANI #2 / HALWOOD / FC -- G.C.U #387 / BHP / FC \$ \$ HANLEY #1 / HARVEY / PC GCU #109 / AMOCO / DK FARMINGTON A #1 / MERIDIAN / GR \$ -, T29N-R13W T29N-R12W \$ -0-T29N-R13W | T29N-R12W #1 / GILBREATH / \* GALLEGOS #77 / BHP / OF G.C. #109E / AMOCO / DK FARMINGTON #1 / SHIPR / ..... GCU #386 / BHP / FC SUTTON #1 / CGM / FROELIGH #1 / TIME / M. MESA TEDERAL #15 / CONOCO / DK -\$-GCU #501 / BHP / PC . . . . . . Сси #3-1 / ВНР / РС 6си #3-1 / ВНР / РС ROPCO #12-2 / ROPCO / PCFC . . . . . 4.2 HUTCHINSON / MCELVAIN / PC ROPCO #12-1 / ROPCO / PC \$ \$ GC #102E / AMOCO / DK SANTH #1 / CONOCO / DK GCU #536 / BHP • • • • • • GCU #108 / AMOCO / DK M812 / 1# MST CO ROPCO #124/ROPCO/PC 8 FARMINGTON A #1-E / MERIDIAN / GR COPCO #12-31 ROPCO / PCFC -ф GC #102 / AMCCO / DK GCU #535 / BHP / \$ 1 - - 13 - -.12 ..... • • • • -8 - - - GCU #108€ / AMOCO / GR BGC #1-E / AMOCO / DK GCU #500 / BHP / PC / SAMIMAS / 1% LS G CU #382 / BHP / FC -0 BGU #1 / AMOCO / DK -BA #1 / SHIPR RCOM #1 / AMOCO / DK IRVIN COM #1 / AMOCO / DK SCOTT #1.E / CONOCO / DK RGC-8 #1-E / AMOCO / DK • • • • SV #1 / AMENDA / \$ FCOM #1 / CONOCO / DK \$ \$ -\$-FTU #1 / FLOYD / DK ¢ • . . . . . . \$ CO/DK 11 -/ CONOCO / GR 14 AMOCO / DK / ROYD / DK ¢ \$

Richardson Operating Company Nearing Date: April 20, 1995

1 · · ·		
FU-A #1 / CONOC		
	ollowing format ation	The Wells on the map appear with the following format Wellname / Operator / Producing Formation
	Location/Status Unknown	0
	Abandoned	÷
	Water Injector	ø
	Gas Producing	\$
	Oil Producing	•
	WELL STATUS	ZYMBOL
	58	FRUITLAND COAL PICTURED CLIFFS
· · · ·	GR CH	GRANEROS CHACRA
	DK GH	DAKOTA GREENHORN
¢	Formation Abbreviation	Producing Formmation
RVIN COM #15	TIME	TIME PET
	ST&W	STEELE & WEST
	SHIPR SHIPR	SHIPROCK OIL
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	MCELVAIN MERIDIAN PANAM	MCELVAIN TH O&G PR MERIDIA OIL INC
	HARVEY MARALEX	HARVEY FRANCIS L MARALEX RESOURCES
	HALL	HALLWOOD PETROLEUM HALLWOOD PETROLEUM
	FLOYD GILBREATH	FLOYD OPERATING CO GILBREATH NORMAN L
SCOT #1	ELPASO FLOYD	EL PASO EXPLORATION CO FLOYD OPERATING CO
	DEMP DUGAN	DEMPSEY ASSOCIATES DUGAN THOMAS A
	CONOCO	CONOCO INC CROSS-GOULD-MORLACK
All and a set	BHP BHP	BHP PETROLEUM BHP PETROLEUM (AMERICAS)
· · · ·	BHP	ANIMAS OIL BHP PET (AMERICAS)
FI#11	AMOCO	AMENDA OLL AMOCO PRODUCTION
	OPERATOR ABREVIATION	Current Operator



# Economic and Engineering Report

# Economic Runs for Application to Commingle, Pictured Cliffs and Fruitland Coal.

The following is a summary of economic scenarios for Pictured Cliffs and Fruitland Coal completions in West Gallegos prospect, Sec 12, 29N, 13W, San Juan County, New Mexico. The purpose of the following economic analysis is to compare profitability and reserves between a commingled Pictured Cliffs and Fruitland Coal well, versus two different wells one completed at Pictured Cliffs and one completed at Fruitland Coal.

For the purpose of comparison, the following parameters were held constant, both for ROPCO and Amoco:

Working Interest	100%
Net Revenue Interest	80%
First day of Production	January 1, 1996
State, Severance and Ad Valorem Tax	8.26%
Escalation of operating costs	3% annually after 12/96
Water Injection Costs (\$/bbl)	1.25
Gas Price (\$/MCF)	1.39, escalated 3% annually after 12/96

			PC & FC
Performance:	Pictured Cliffs	Fruitland Coal	Commingled
Gas initial Rate (MCF/day)	600	250	850
Gas annual decline rate	10%	10%	10%
Initial water production rate (bbl/day	) 60	15	75
Water annual decline rate	10%	10%	10%

In addition to the current analysis, in the appendix of this report are the tabulated list of operating cost calculations and the Summary Reports from the economic runs.

For every well in all cases considered above, a compressor is purchased at \$85,000 and financed over 4 years at 9% annual rate. This results to a \$2115/month payment for the first 4 years.

BEFORE THE OIL CONSERVATION DIVISION Case No.11247 Exhibit No.19 Submitted By: Richardson Operating Company Hearing Date: April 20, 1995



# **Summarized Results**

# A: Pictured Cliffs

The cost to drill and complete a Pictured Cliffs well is \$123,272.

Gas Reserves (MCF)	1,945,447
Life of Project to Economic Limit (yrs, mos)	26, 4
Net Cash Flow (Undiscounted)	\$1,475,492
Net Cash Flow (Discounted at 10%)	\$725,403
<b>Profit / Investment Ratio</b>	11.97
Total Capital Expenses	\$123,272

# **B: Fruitland Coal**

The cost to drill and complete a Fruitland Coal well is \$124,580

Gas Reserves (MCF)	575,073
Life of Project to Economic Limit (yrs, mos)	10, 5
Net Cash Flow (Undiscounted)	\$118,278
Net Cash Flow (Discounted at 10%)	\$47,391
Profit / Investment Ratio	0.96
Total Capital Expenses	\$124,580

# **C: Commingled Pictured Cliffs and Fruitland Coal Well**

The cost to drill and complete a commingled Pictured Cliffs and Fruitland Coal well is \$177,379.

Gas Reserves (MCF)	2,813,064
Life of Project to Economic Limit (yrs, mos)	29, 9
Net Cash Flow (Undiscounted)	\$2,408,159
Net Cash Flow (Discounted at 10%)	\$1,149,163
Profit / Investment Ratio	13.57
Total Capital Expenses	\$177,379

# D: Comparison Between a Commingled PC&FC Completion and a Combination of one PC and one FC Well.

The following is a direct comparison between one commingled Pictured Cliffs and Fruitland Coal well, versus a two wells combined; one completed at Pictured Cliffs and the other completed at Fruitland Coal.

	Commingled	Combined
Gas Reserves (MCF)	2,816,761	2,520,345
Life of Project to Economic Limit (yrs, mos)	30, 0	26, 4
Net Cash Flow (Undiscounted)	\$2,503,544	\$1,593,770
Net Cash Flow (Discounted at 10%)	\$1,192,249	\$772,794
Profit / Investment Ratio	14.11	6.43
Total Capital Expenses	\$177,379	\$247,852

# **D:** Conclusions

According to all the above considerations, the commingling case results to the most favorable economics. The economics as a result of commingling will benefit the State with higher reserves recoverable, higher life of the project, thus conservation of natural resources by waste reduction, higher tax revenues and employment. The working interest owners will benefit by greater return on investment.

Signed:

George D. Vassilellis Production Supervisor April 6, 1995



# APPENDIX I OPERATING COSTS CALCULATIONS

In cases (1) and (i), compressors are rented, maintenance free.

	ROPCO	AMOCO
Overhead	450	500
Pumper	275	275
Compressor Rental	1,646	2,500
District Office	0	300
TOTAL	2,371	3,575

In cases (2) and (ii), compressors are purchased and financed over a period of years.

	ROPCO 4 year plan	AMOCO 4 year plan	AMOCO 5 year plan
Overhead	450	500	500
Pumper	275	275	275
Compressor Monthly Payment*	2,115	2,986	2,500
Compressor Maintenance	400	400	400
District Office	0	300	300
TOTAL	3,240	4,461	3,975

\* This expense takes effect only for the period over which the purchase is financed.

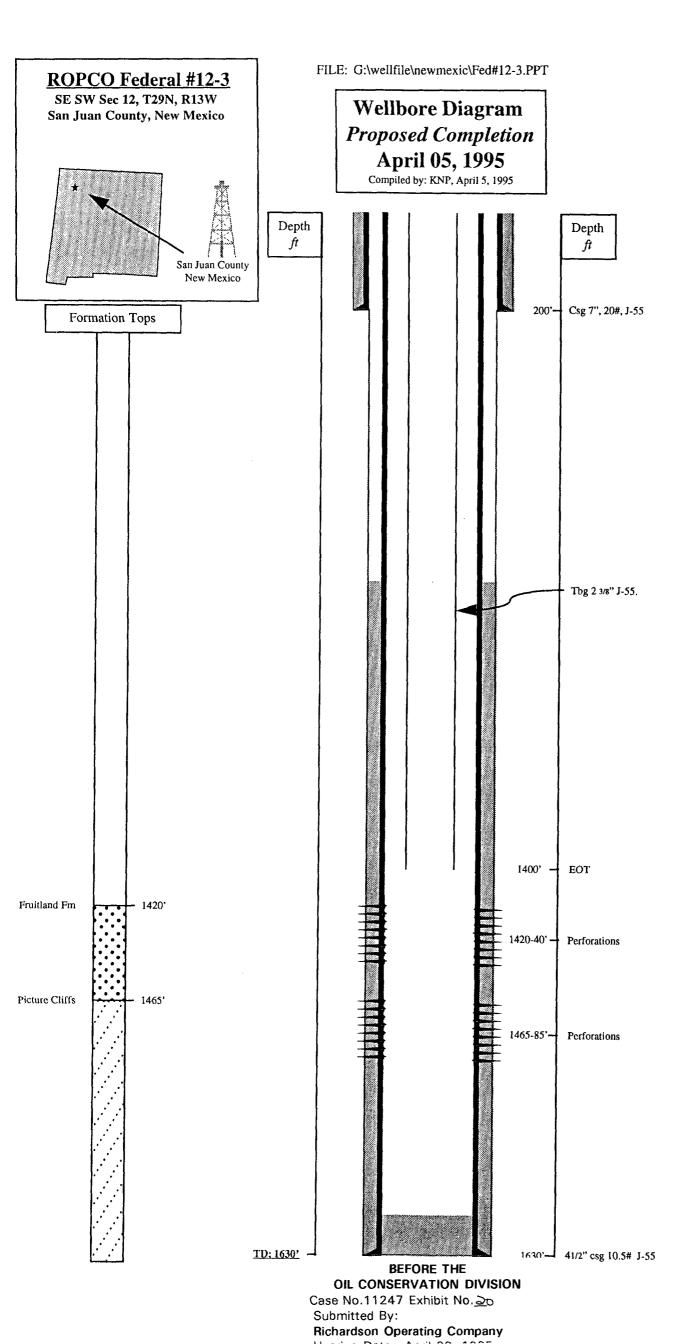
In cases (3) and (iii), used compressors are purchased.

-	ROPCO	AMOCO
Overhead	450	500
Pumper	275	275
Compressor Maintenance	400	400
District Office	0	300
TOTAL	1125	1475



# APPENDIX II ECONOMIC RUN RESULTS

The following are tabulated results of economic runs covering cases 1-3 and i-iii. The economic analysis program utilized is ENPAK.



# ESTIMATED BOTTOMHOLE PRESSURE

(adjusted to 1465')

Fruitland Coal:

ROPCO Fee FC 7 No. 1 7L-29N-12W San Juan Co., NM

BHP=210 psig

**Pictured Cliffs:** 

ROPCO Federal PC 12 No. 1 12J-29N-13W San Juan Co., NM

BHP=241 psig

BEFORE THE OIL CONSERVATION DIVISION Case No.11247 Exhibit No.<u>2</u>( Submitted By: Alchardson Operating Company Hearing Date: April 20, 1995



1115 Far.\_ngton Avenue Farmington, N.M. 87401 (505) 325-6622

Analysis No. ROP40001 Cust. No. 68000-10000

#### WELL/LEASE INFORMATION

Company	: RICHARDSON OPERATING CO.	Source :
Well Name	: ROPCO FED. PC 12 NO. 1	Pressure : 163 PSIG
County	: SAN JUAN	Sample Temp. : 45 DEG.F
State	:	Well Flowing : NO
Location	: 12-29N-13W	Date Sampled : 04/16/94
Fld/Formation	: PICTURED CLIFFS	Sampled By : BRUCE DELVENTHAL
Cust.Stn.No.	:	Foreman/Engr :

Remarks:

	A	NALYSIS		
COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR.*
C02	0.000 97.276 0.316 0.099 0.017 0.026 0.009 0.006	0.0000 0.0000 0.0845 0.0273 0.0056 0.0082 0.0033	2.50 0.55 0.85 0.36 0.24	0.0000 0.5388 0.0033 0.0015 0.0003
TOTAL				0.5672
* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY ** @ 14.730 & 60 DEG. F				
COMPRESSIBILITY FACT BTU/CU.FT. (DRY) CON BTU/CU.FT. (WET) CON REAL SPECIFIC GRAVIT	RRECTED FOR (	1/Z) 1/Z) 1/Z)	1.00 998 981 0.56	.5 .1
ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F				
BEFORE THE OIL CONSERVATION DIA Case No.11247 Exhibit No. Submitted By: Richardson Operating Comp Hearing Date: April 20, 199	any	DATE RUN	: K03 RESSURE : 158 : 04/ UN BY : KAT	PSIG 19/94

ANALYSIS

EL PASO NATURAL GAS COMPANY VOLUME ACCOUNTING DEPARTMENT MEASUREMENT DIVISION POST OFFICE BOX 1492 EL PASO, TEXAS 79978 PHONE:(915) 541-5267 CHROMATOGRAPHIC GAS ANALYSIS REPORT

DATE 6/08/94

#### MAILEE

,

53220 RICHARDSON OPERATING COMPANY 1700 LINCOLN STREET, SUITE 1700 DENVER, CO 80203-4517

# METER NUMBER97422-ROPCO FEE FC 7 #1 FRTOPERATOR0238-RICHARDSON OPERATING COMPANY

ANALYSIS DATE	5/11/94	TYPE CODE	2 -	ACTUAL
SAMPLE DATE EFFECTIVE DATE EFFECTIVE FOR	5/10/94 6/01/94 6 MONTHS	H2S GRAINS LOCATION	0 0 -	DANIELS FM

COMPONENTS	NORMALIZED MOL %	GPM
C02	. 67	. 000
H2S	. 00	. 000
N2	. 39	. 000
METHANE	96.56	. 000
ETHANE	1.38	. 369
PROPANE	. 56	. 154
ISO-BUTANE	. 10	. 033
NORM-BUTANE	. 15	. 047
ISO-PENTANE	. 05	
NORM-PENTANE	. 04	.014
HEXANE PLUS	. 10	. 044
	100.00	0.679

SPECIFIC GRAVITY	. 583
MIXTURE HEATING VALUE (BTU @ 14.73 DRY)	1035
RATIO OF SPECIFIC HEATS	. 000
NO TEST SECURED FOR H2S	CONTENT

# BEFORE THE OIL CONSERVATION DIVISION

,

Case No.11247 Exhibit No.23 Submitted By: Chardson Operating Company Cearing Date: April 20, 1995

#### ROPCO FEDERAL 12 NO. 3 (A) PC (B) FC

#### MONTHLY GAS PRODUCTION ALLOCATION FORMULA

#### **GENERAL EQUATION**

#### Qt = Q ftc + Qpc

Where: Qt = Total Monthly Production (MCF/MO)

**Qftc = Fruitland Coal Monthly Production** 

**Qpc** = Pictured Cliffs Monthly Production

#### **REARRANGING THE EQUATION TO SOLVE FOR Qftc:**

Qftc = Qt - Qpc

۰.

#### ANY PRODUCTION RATE OVER WHAT IS CALCULATED FOR THE PICTURED CLIFFS USING THE APPLIED FORMULA IS FRUITLAND COAL PRODUCTION.

#### **PICTURED CLIFFS FORMATION PRODUCTION FORMULA IS:**

Qpc =	Qpci *	e ^{-(Dpc)*(t	)}
-------	--------	---------------	----

Where: **Open and Provide Active Cliffs monthly flow rate (calculated from flow test)** 

**Dpc** = Pictured Cliffs monthly decline rate calculated from

(Qpci-Qpcabd)/Np

See Determination of Qpci and PC Estimated Ultimate Recovery (EUR) Qpcabd = 300 MCF/mo

Where:	Np = Pictured Cliffs estimated ultimate recovery (EUR)
	P* x 0.84 MMCF/PSI * * x Rf
	P* = initial reservoir pressure ( 7 day SIBHP)
	Rf = recovery factor (field analogy) = 0.85
	**Determined from material balance (field analogy) and
	volumetric reserves (log analysis)

By calculating PC EUR from SIBHP and determining PC initial flow rate, Dpc can then be estimated utilizing the previously described parameters.

THUS: WHERE:	BEFORE THE OIL CONSERVATION DIVISION
	Case No.11247 Exhibit No. <u> </u>
	Submitted By:
	Richardson Operating Company
	Hearing Date: April 20, 1995

#### ROPCO FEDERAL 12 NO. 3 (A) PC (B) FC

#### **DETERMINATION OF Qpci:**

# (INITIAL PICTURED CLIFFS MONTHLY PRODUCTION)

 $Qpci = Qt (1) \times Qpc (p) / {Qpc (p) + Qftc (p)}$ 

#### WHERE:

Qt (1) = First month's total production (MCF) Qpc (p) = Final Pictured Cliffs Flow Test (MCFD) Qftc (p) = Final Fruitland Coal Flow Test (MCFD)

#### ROPCO FEDERAL 12 NO. 3 (A) PC (B) FC

**DETERMINATION OF Np (PC):** 

Np (PC) = 0.84 MMCF/PSI x P\* x Rf

 $P^* = 241 PSI$ 

Np (PC) = 0.84 x 241 x 0.85 = 172.1 MMCF

#### **DETERMINATION OF Qpci:**

 $Qpci = Qt(1) x \{Qpc(p)/(Qpc(p) + Qftc(p))\}$ 

Qt (1) = 1st month's total production

Qpc (p) = 398 MCFD

Qftc (p) = 50 MCFD

Qpci = Qt(1) x0.89

#### **DETERMINATION OF Dpc:**

Dpc = (Qpci-Qpcabn)/Npc

Dpc = ((Qt (1) \* 0.89)-300)/172,100 MCF

#### **THUS:**

 $Qftc = Qt (MCF/mo) - Qpci x e^{-(Dpc x (t))}$ 

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

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:

#### CASE NO. 11246

Application of Richardson Operating Company for compulsory pooling, and an unorthodox gas well location, ROPCO Fee "12" Well No. 4, San Juan County, New Mexico. BEFORE THE OIL CONSERVATION DIVISION Case No.11247 Exhibit No.255 Submitted By: Richardson Operating Company Hearing Date: April 20, 1995

#### CERTIFICATE OF MAILING AND COMPLIANCE WITH ORDER R-8054

W. THOMAS KELLAHIN, attorney in fact and authorized representative of Richardson Operating Company, states that the notice provisions of Division Rule 1207 (Order R-8054) have been complied with, that Applicant has caused to be conducted a good faith diligent effort to find the correct addresses of all interested parties entitled to receive notice, that on the 15th day of March, 1995 I caused to be sent, by certified mail return receipt requested, notice of this hearing and a copy of the application for the referenced case along with the cover letter, at least twenty days prior to the hearing set for April 6, 1995, to the parties shown in the application as evidenced by the attached copies of receipt cards, and that pursuant to Division Rule 1207, notice has been given at the correct addresses provided by such rule

W. Thoma's Kellahin

SUBSCRIBED AND SWORN to before me on this 5th day of April, 1995.

Notary Public

My Commission Expires: June 15th, 1998

SENDER:	I also wish to receive the	
<ul> <li>Complete items 1 and/or 2 for additional services.</li> <li>Complete items 3, and 4a &amp; b.</li> </ul>		Z 209 485 144
• Print your name and address on the reverse of this form so t		Receipt for
<sup>return</sup> • Attr Richardson/12-3(04/06/95)	1	Certified Mail
• Writ March 15, 1995 • The	number. 2. Restricted Delivery	No Insurance Coverage Provided Do not use for International Mail
delivers	Consuit postmaster for fee.	(See Reverse)
3. Article Addressed to:	4a. Article Number 209 485144	Sear to
Glenn P. Wycoff	4b. Service Type	Glenn P. Wycoff
11206 County Road 213	Registered Insured	11206 County Road 213
Durango, CO 81301	Certified COD L	Durango, CO 81301
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Complete items 1 and/or 2 for additional services.     Complete items 3, and 4a & b.	1 also wish to receive the	Postal service Do not use for International Ma
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6. Signature (Agent)	and fee is paid)	C à Postage
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Pri Richardson/12-2 (04/06/95)	we can fee):	
<sup>At</sup> March 15, 1995	space 1. 🗌 Addressee's Address 🕉	Hugh J. Mitchell, Trustee:
• W	te number. 2. Restricted Delivery	Hugh J. Mitchell,Raimonda Mitchell Revocable Trust
Phenomena Phenom	d the date Consult postmaster for fee.	4240 N. Buena Vista Ave.
3. Article Addressed to:		Farmington, NM 87401
Hugh J. Mitchell, Trustee:	135 852 479 H	
Hugh J. Mitchell, Raimonda mite		Special Dirister Line
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՝ March 15, 1995 թար	icle number. 2. Restricted Delivery	
<ol> <li>Article Addressed to: Northern Specialty Company, Inc. c/o JC Patterson</li> <li>308 S. Ivie Ave. Farmington, NM 87401</li> <li>5. Signature (Addressee)</li> <li>6. Signature (Agent)</li> </ol>	ZO9485146         4b. Service Type         Registered       Insured         Certified       COD         Express Mail       Return Receipt for Merchandise         7. Date of Delivery       3/16/65         8. Addressee's Address (Only if requested and fee is paid)	Northern Specialty Company, Inc. c/o JC Patterson 308 S. Ivie Ave. Farmington, NM 87401
PS Form <b>3811</b> , December 1991 ±U.S. GPO: 1983-352 <b>SENDER:</b> • Complete items 1 and/or 2 for additional services. • Complete items 3, and 4a & b. • Print your name and address on the complete item 4 • Attac Richardson/12- <b>G</b> (04/06/95) does no March 15, 1995	e can ace 1. Addressee's Address 1. Restricted Delivery	Return Receipt Showing to Whom, Date and Addressee's Address P 1:35 8:52 475 Receipt for Certified Mail No Insurance Coverage Provice Do not use for International Ma (See Reverse)
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3. Article Addressed to: Wayne Tarpley POB 337 Aztec, NM 87410	4a. Article Number       2       4       1       5       8       5       2       4       1       5       8       5       2       4       1       5       8       5       2       4       1       5       8       5       2       4       1       5       8       5       2       4       1       5       8       5       2       4       1       5       8       6	Wayne Tarpley POB 337 Aztec, NM 87410
Wanzer Jan M 5. Signature (Addressee)	7. Date of Delivery 8. Addressee's Address (Only if requested and fee is paid)	Control Control Fing     Control Control Control     Control Control Control     Tention Reliable Services
6. Signature (Agent). PS Form <b>3811</b> , December 1991 #U.S. GPO: 1993-352	2-714 DOMESTIC RETURN RECEIPT	Communication Descend     Communication     Communication     Communication     Communication     Communication     Communication     Communication     Communication     Communication

Richardson/12-9(04/06/95) March 15, 1995

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5. Signature (Addressee)		ressee's Address (Only if requested fee is paid)	Thank
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PS Form 3811, December 1991 #U.S. GPO: 1993-	-352-714 D	OMESTIC RETURN RECEIPT	
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5. Signature (Addressee) 6. Signature (Agent) 8. Addressee's Address (Only if requark and fee is paid)

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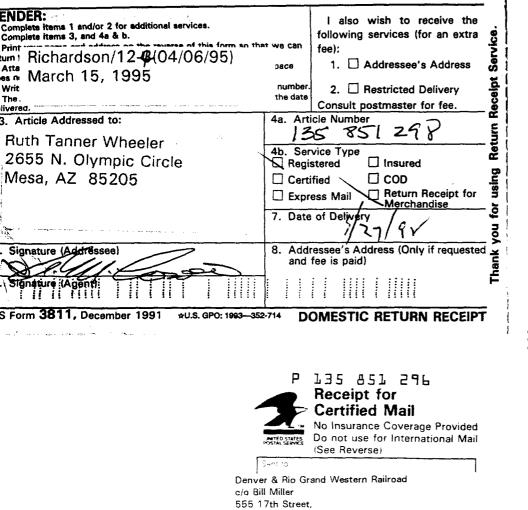
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8 Decimar of Date Richardson/12-**B**(04/06/95) March 15, 1995

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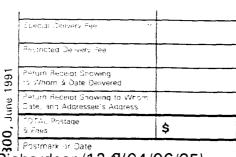
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Denver, CO 80202-3987



Richardson/12-@(04/06/95) March 15, 1995



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

	Specia: Delivery Fee	
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# STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:

# CASE NO. 11247

Application of Richardson Operating Company for compulsory pooling, downhole commingling and an unorthodox gas well location, ROPCO Fed "12" Well No. 3, San Juan County, New Mexico.

OIL CONSERVATION DIVISION Case No.11247 Exhibit No.26 Richardson Operating Company Hearing Date: April 20, 1995 Submitted By:

# CERTIFICATE OF MAILING AND COMPLIANCE WITH ORDER R-8054

W. THOMAS KELLAHIN, attorney in fact and authorized representative of Richardson Operating Company, states that the notice provisions of Division Rule 1207 (Order R-8054) have been complied with, that Applicant has caused to be conducted a good faith diligent effort to find the correct addresses of all interested parties entitled to receive notice, that on the 15th day of March, 1995 I caused to be sent, by certified mail return receipt requested, notice of this hearing and a copy of the application for the referenced case along with the cover letter, at least twenty days prior to the hearing set for April 6, 1995, to the parties shown in the application as evidenced by the attached copies of receipt cards, and that pursuant to Division Rule 1207, notice has been given at the correct addresses provided by such rule

W. Thomas Kellahin

SUBSCRIBED AND SWORN to before me on this 5th day of April, 1995.

**Notary Public** 

My Commission Expires: June 15th, 1998

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

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:

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W. Thomas Kellahin

SUBSCRIBED AND SWORN to before me on this 5th day of April, 1995.

Notary Public

My Commission Expires: June 15th, 1998

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c/o Duane Spencer 1235 La Plata Highway	Certifi	ed COD as Mail Return Receipt for	Isin
Farmington, NM 87401	·	ss Mail Neturn Receipt for Merchandise	or L
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Return Receipt Showing to Whom & Date Delivered Return Receipt Showing to Whom, Date, and Addressee's Address

March 15, 1995

Richardson/12-3(04/06/95)

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**Certified Mail** 

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**Receipt** for

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PS Form 3811, December 1991 #U.S. GPO: 1993-352-714 DOMESTIC RETURN RECEIPT

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3. Article Addressed to: City of Farmington 800 Municipal Drive Farmington, NM 87401	4b. Ser Regi Certi	icle Number 51 364 35 851 364 vice Type stergd Insured ifieds COD ess Mail Return Receipt for Merchandise	vou for using Return R
5. Signature (Addressee 6. Signature (Addressee PS Form <b>3811</b> , December 1991 #U.S. GPO: 1993-352	and	ressee's Address (Only if requested fee is paid) OMESTIC RETURN RECEIPT	Thank y



City of Farmington 800 Municipal Drive Farmington, NM 87401

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Richardson/12-3(04/06/95) March 15, 1995

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Vidland, TX 79708		ress Mail	'E Duff Trust 'OB 9908	
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	1. 000	<u>5-23-95</u>		
5. Signature Addressee		ressee's Address (Only if requested 👱		
Tral hull	and	fee is paid)		1
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PS Form <b>3011</b> , December 1331 #0.5. GPO: 1993—3	52-714 U	OMESTIC RETURN RECEIPT	No Insurance Coverage Pro	
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PS Form 3811, December 1991 *U.S. GPO: 1993-35	2-714 DI	OMESTIC RETURN RECEIPT	Receipt for	
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· Print your name and address on the reverse of this form so the	nat we can	following services (for an extra given fee):	Hugh J. Mitchell, Trustee:	
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* <sup>M</sup> March 15, 1995	le number.		Revocable Trust 4240 N. Buena Vista Ave.	
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PS Form 3811, December 1991 #U.S. GPO: 1993-352-714 DOMESTIC RETURN RECEIPT

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PS Form <b>3811</b> , December 1991 <b>*U.S. GPO: 1993-3</b> <b>ENDER:</b> Complete items 1 and/or 2 for additional services	52-714 DOM	ESTIC RETURN RECEIPT	<u>۲</u>
S Form <b>3811</b> , December 1991 <b>*</b> U.S. GPO: 1993-38 <b>ENDER:</b> Complete items 1 and/or 2 for additional services. Complete items 3, and 4a & b. Print your name and address on the reverse of this form on the	52-714 DOM	also wish to receive the	
PS Form <b>3811</b> , December 1991 &U.S. GPO: 1993-35 <b>ENDER:</b> Complete items 1 and/or 2 for additional services. Complete items 3, and 4a & b. Print your name and address on the reverse of this form so that turn this card to you	52-714 DOM	also wish to receive the	
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PS Form <b>3811</b> , December 1991 &U.S. GPO: 1993-34 <b>ENDER:</b> Complete items 1 and/or 2 for additional services. Complete items 3, and 4a & b. Print your name and address on the reverse of this form so the turn this card to you. Attach this form to the front of the mailpiece, or on the back i Richardson/12-3(04/06/95) .arti March 15, 1995 3. Article Addressed to:	s2-714 DOM at we can f space cle number, nd the date Cor	also wish to receive the owing services (for an extra ): 	
PS Form <b>3811</b> , December 1991 &U.S. GPO: 1993-38 <b>ENDER:</b> Complete items 1 and/or 2 for additional services. Complete items 3, and 4 & b. Print your name and address on the reverse of this form so the turn this card to you. Attach this form to the front of the mailninger or on the back i Richardson/12-3(04/06/95) March 15, 1995 3. Article Addressed to: Paula A. Maxwell	s2-714 DOM	also wish to receive the owing services (for an extra ): Addressee's Address Addressee's Address C. Restricted Delivery isult postmaster for fee.	Keceipt Service. Th
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DOMESTIC RETURN RECEIPT

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1000 Shenandoah I	NE
Albuquerque, NM 8	37111
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Postmark or Date Richardson/12-3(04/06/95) March 15, 1995

**Receipt for** 

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6. Signature (Agent) A (9)			Ę
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5. Signature (Addressee)		essee's Address (Only if requested fee is paid)	[ hank
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	135 451 369
Glenn C. Callow	4b. Service Type
Glenn C. Callow	Registered Insured
c/o Jeff Callow	Certified COD S
626 Craig Street Walla Walla, WA 99362-3349	
Walla Walla, WA	V7. Date of Delivery
A LING CLE	220.95
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Holene	8. Address (Only if requested x and fee is paid)
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POB 25861	4b. Service Type
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Oklahoma City, OK 73125	Certified COD Express Mail Return Receipt for
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hank you tor using Nerurn Necerpt Service.	P 135 851 369 Receipt for Certified Mail No Insurance Coverage Provide Do not use for International M (See Reverse) Sent to Glenn C. Callow
or using He	c/o Jeff Callow 626 Craig Street Walla Walla, WA 99362-3349
Thank you t	Special Delivery Fee Restricted Delivery Fee Return Receipt Showing to Whom & Date Delivered Return Receipt Showing to Moore
Service.	P 135 851 370 Receipt for Certified Mail No Insurance Coverage Provide Do not use for International Ma (See Reverse)
you for using Return Receipt Service	BHP Petroleum(Americas)Inc. 1360 Post Oak blvd. Ste 500 Houston, TX 77056
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NDER: complete items 1 and/or 2 for additional services.	I also wish to receive the	P 135 851 372
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vered. Article Addressed to:	4a. Article Number	Rosalind Redfern
Rosalind Redfern	<u>135 851 372</u>	POB 2127
OB 2127 ~	4b. Service Type	Midland, TX 79702
Aidland, TX 79702	Registered Insured	
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gnature (Agent) 5 - 20/ 11	F	Postmark or Date
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March 15, 1995

SENDER: • Complete items 1 and/or 2 for additional services. • Complete items 3, and 4a & b. • Print your name and address on the reverse of this form so return this card to you. • A doet Richardson/ROPCO(04/06/95) • W March 15, 1995 3 delivered. 3. Article Addressed to:	I also wish to receive the following services (for an extra fee):         if space         icle number, nd the date         2.         Restricted Delivery Consult postmaster for fee.         4a. Article Number
Amoco Production Company POB 800 Denver, CO 80210 Attn: Ms. Julie Talbot Jenkins	4a. Article Number /35 85) 304 4b. Service Type Registered Certified Con Express Mair 7. Deteof Pelivery
5. Signature (Addressee) 6. Signature (Agent) PS Form <b>3811</b> , December 1991 ±U.S. GPO: 1993	8. Addressee's Address (Only if requester and fee is paid) 352-714 DOMESTIC RETURN RECEIP



POB 800 Denver, CO 80210 Attn: Ms. Julie Talbot Jenkins

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March 15, 1995



No Insurance Coverage Provided Do not use for International Mail INITED STATES (See Reverse)

Sent to

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

Return Receipt Showing	
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135 851 356 **Receipt** for **Certified Mail** No Insurance Coverage Provided Do not use for International Mail (See Reverse)

Sent to **Feddy A. Reiser** 3914 Lawndale (ansas City, MO 64137



Sammy B. Reiser POB 190 Windsor, CO 80550

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٦,	TOTAL Postage	\$	
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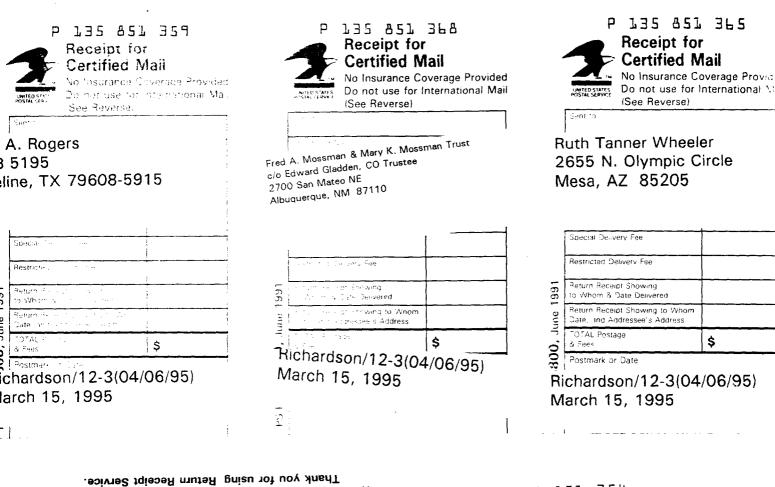
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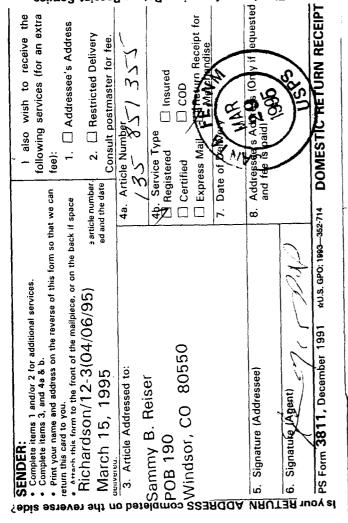
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P UNITED STATES

135 851 354 **Receipt for Certified Mail** No Insurance Coverage Provided Do not use for International Mail (See Reverse)

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

), June 1991	Date, und Addressee's Address TCTAL <sup>p</sup> ostage & Fees	\$
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Richardson/12-3(04/06/95) March 15, 1995

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R 07 '95 03:47PM AMOCO 12TH FLOOR 3030304777 · LATHLEEN COL ULLE JENKINS R O 16-717-0 (6-50) 3: This transmission pages consists of: Telephone Number Confirmation Notes:



March 7, 1995

Southern Rockies Business Unit

VIA FACSIMILE 830-8009

Cathleen Colby Richardson Operating Company 1700 Lincoln, Suite 1700 Denver, Colorado 80203

Re: Pictured Cliffs/Fruitland Well Proposals, W/2 Section 12, T29N,R13W, San Juan County, New Mexico -- Proposed Trade

Dear Cathy:

In further connection with the discussions which you and I have had and that you have had with Greg Grotke regarding Amoco and Richardson entering into some type of exchange of interests involving the above properties, please be advised that Amoco has no interest in any type of sale or exchange of its interests at the present time. If Amoco and Richardson have any discussions in the future regarding any such possible sale or exchange, any offer or acceptance by Amoco will only be effective if set forth in writing in a final definitive contract signed by an attorney-in fact with Amoco who has authority to bind the company (which neither Greg nor I have).

With respect to the parties' respective AFEs, Amoco will also advise Richardson in writing in the near future with regard to Amoco's position.

Sincerely,

Julie Jenkins

cc: Greg Grotke

Amoco Production Company	1670 Broadway	Post Office Box 800	Denver, Colorado 80201
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### DOCKET: EXAMINER HEARING - THURSDAY - APRIL 20, 1995 8:15 A.M. - 2040 South Pacheo Santa Fe, New Mexico

Dockets Nos 13-95 and 14-95 are tentatively set for May 4, 1995 and May 18, 1995. Applicantions for hearing must be filed at least 23 days in advance of hearing date. The following cases will be heard by an Examiner:

CASE 11202: (Continued from February 16, 1995, Examiner Hearing.)

In the matter of the hearing called by the Oil Conservation Division ("Division") on its own motion to permit Billy R. Wilson Robinson Brothers Drilling (Company), Inc., operator, The Travelers Indemnity Company, surety, and all other interested parties to appear and show cause why the State "A" Well No. 1 (API No. 30-015-02331), located 660 feet from the South and West lines (Unit M) of Section 36, Township 19 South, Range 28 East, Eddy County, New Mexico (which is approximately 8 miles southeast by south of the old Illinois Production Camp), should not be plugged and abandoned in accordance with a Division-approved plugging program. Should the operator fail to properly plug said well, the Division should then be authorized to take such action as is deemed necessary to have the well properly plugged and abandoned and to direct the operator to pay the costs of such plugging.

- <u>CASE 11252</u>: In the matter of the hearing called by the Oil Conservation Division ("Division") on its own motion to permit Stevens Operating Corporation, operator, American Employers Insurance, surety, and all other interested parties to appear and show cause why the Marjohn State Well No. 1 (API No. 30-005-00380), located 660 feet from the North and East lines (Unit A) of Section 11, Township 13 South, Range 28 East, Chaves County, New Mexico (which is approximately 15 miles east-northeast of Hagerman, New Mexico), should not be plugged and abandoned in accordance with a Division-approved plugging program. Should the operator fail to properly plug said wells, the Division should then be authorized to take such action as is deemed necessary to have both wells properly plugged and abandoned and to direct the operator to pay the costs of such plugging.
- **CASE 11253:** In the matter of the hearing called by the Oil Conservation Division ("Division") on its own motion to permit Charles W. Harle, operator, American Manufacturers Mutual Insurance Company, surety, and all other interested parties to appear and show cause why the Zimmerman Well No. 1, located 660 feet from the North line and 1980 feet from the West line (Unit C) of Section 35, Township 10 South, Range 25 East, Chaves County, New Mexico (which is approximately 8 miles east of Roswell, New Mexico), should not be plugged and abandoned in accordance with a Division-approved plugging program. Should the operator fail to properly plug said well, the Division should then be authorized to take such action as is deemed necessary to have said well properly plugged and abandoned and to direct the operator to pay the costs of such plugging.
- **CASE 11254:** In the matter of the hearing called by the Oil Conservation Division ("Division") on its own motion to permit Charles W. Harle, operator, American Manufacturers Mutual Insurance Company, surety, and all other interested parties to appear and show cause why the Zimmerman Well No. 2, located 1650 feet from the North line and 1980 feet from the West line (Unit F) of Section 35, Township 10 South, Range 25 East, Chaves County, New Mexico (which is approximately 8 miles east of Roswell, New Mexico), should not be plugged and abandoned in accordance with a Division-approved plugging program. Should the operator fail to properly plug said well, the Division should then be authorized to take such action as is deemed necessary to have said well properly plugged and abandoned and to direct the operator to pay the costs of such plugging.
- <u>CASE 11255</u>: In the matter of the hearing called by the Oil Conservation Division ("Division") on its own motion to permit Charles W. Harle, operator, American Employers' Insurance Company, surety, and all other interested parties to appear and show cause why the Christopher Well No. 1 (API No. 30-005-60591), located 330 feet from the North line and 2310 feet from the East line (Unit B) of Section 32, Township 6 South, Range 26 East, Chaves County, New Mexico (which is approximately 15.5 miles west-northwest of Elkins, New Mexico), should not be plugged and abandoned in accordance with a Division-approved plugging program. Should the operator fail to properly plug said well, the Division should then be authorized to take such action as is deemed necessary to have said well properly plugged and abandoned and to direct the operator to pay the costs of such plugging.
- <u>CASE 11256</u>: In the matter of the hearing called by the Oil Conservation Division ("Division") on its own motion to permit the operator, Otis H. Sanders, and all other interested parties to appear and show cause why the Thigpen, et al Well No. 1-Y (API No. 30-015-22933), located 1800 feet from the North line and 1980 feet from the West line (Unit F) of Section 7, Township 16 South, Range 25 East, Eddy County, New Mexico (which is approximately 7.25 miles northwest by north of the Artesia, New Mexico Municipal Airport), should not be plugged and abandoned in accordance with a Division-approved plugging program. Additionally, should the operator fail to properly plug said well, the Division seeks an order directing the operator to pay the costs of such plugging and if failing to do so, ordering a forfeiture of the plugging bond covering this well and authorizing the Director of the Division to make demand upon Sunwest Bank at Roswell, New Mexico to pay to the Division so much of the funds of the certificate of deposit given as collateral for said bond as is necessary to compensate the costs of plugging said well.

- **CASE 11257:** In the matter of the hearing called by the Oil Conservation Division ("Division") on its own motion to permit the operator, A. L. Dawsey, and all other interested parties to appear and show cause why the El Vado Well No. 1 (**API No. 30-039-24055**), located 610 feet from the South line and 2000 feet from the West line (Unit N) of Section 11, Township 27 North, Range 1 East, as projected into the unsurveyed Tierra Amarilla Land Grant, Rio Arriba County, New Mexico (which is approximately 5.5 miles northwest of El Vado, New Mexico), should not be plugged and abandoned in accordance with a Division-approved plugging program. Additionally, should the operator fail to properly plug said well, the Division seeks an order directing the operator to pay the costs of such plugging and if failing to do so, ordering a forfeiture of the plugging bond covering this well and authorizing the Director of the Division to make demand upon the First Security Bank, formerly First National Bank in Albuquerque, New Mexico to pay to the Division so much of the funds of the certificate of deposit given as collateral for said bond as is necessary to compensate the costs of plugging said well.
- **CASE 11258:** In the matter of the hearing called by the Oil Conservation Division ("Division") on its own motion to permit the operator, A. L. Dawsey, and all other interested parties to appear and show cause why the El Vado Well No. 2 (**API No. 30-039-24053**), located 1770 feet from the South line and 970 feet from the East line (Unit I) of Section 11, Township 27 North, Range 1 East, as projected into the unsurveyed Tierra Amarilla Land Grant, Rio Arriba County, New Mexico (which is approximately 5 miles northwest of El Vado, New Mexico), should not be plugged and abandoned in accordance with a Division-approved plugging program. Additionally, should the operator fail to properly plug said well, the Division seeks an order directing the operator to pay the costs of such plugging and if failing to do so, ordering a forfeiture of the plugging bond covering this well and authorizing the Director of the Division to make demand upon the First Security Bank, formerly First National Bank in Albuquerque, New Mexico to pay to the Division so much of the funds of the certificate of deposit given as collateral for said bond as is necessary to compensate the costs of plugging said well.
- CASE 11259: Application of Chevron U.S.A. Inc. for an unorthodox gas well location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for its W. T. McComack Well No. 18, formerly the Central Drinkard Unit Well No. 428, (API No. 30-025-26447) to be recompleted to the Tubb Oil and Gas Pool at an unorthodox gas well location 210 feet from the North line and 2390 feet from the East line (Unit B) of Section 32, Township 21 South, Range 37 East, the NE/4 of said Section 32 is to be dedicated to said well to form a standard 160-acre gas spacing and proration unit for said pool. Said unit is located approximately one mile west of Eunice, New Mexico. IN THE ABSENCE OF OBJECTION THIS APPLICATION WILL BE TAKEN UNDER ADVISEMENT.
- CASE 11260: Application of Santa Fe Energy Resources, Inc. for a unit agreement, Lea County, New Mexico. Applicant, in the abovestyled cause, seeks approval of the Abe Unit Agreement for an area comprising 3,200 acres, more or less, of State and Fee lands in Sections 21, 22, 27, 28, and 29, Township 21 South, Range 33 East. Said unit area is centered approximately 24 miles West-Northwest of Eunice, New Mexico.
- CASE 11191: (Continued from March 16, 1995, Examiner Hearing.)

Application of Great Western Drilling Company for an unorthodox gas well location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of an unorthodox gas well location for its existing Glenn Cleveland Well No. 1 located 660 feet from the South line and 1980 feet from the East line (Unit O) of Section 7, Township 15 South, Range 35 East, in order to test and recomplete this well in the Morrow formation. The E/2 of said Section 7 to be dedicated to said well to form a standard 320-acre gas spacing and proration unit. Said unit is located approximately 7 miles northwest of Lovington, New Mexico.

- <u>CASE 11261</u>: Application of Marathon Oil Company for an additional high angle/horizontal wellbore and to amend Division Order No. R-10082-A, Lea County, New Mexico. Applicant, in the above-styled cause, seeks to amend Division Order No. R-10082-A to authorize the applicant to utilize the existing J. M. Denton Well No. 5 located in Unit "N" of Section 11, Township 15 South, Range 37 East, by kicking-off from vertical, build angle to approximately 90 degrees with a short-radius curve and continue drilling a horizontal drainhole within its "high angle/horizontal directional drilling project" in the Denton-Devonian Pool, currently comprising the SW/4, N/2 SE/4 and SE/4 SE/4 of said Section 11. Applicant further seeks the designation of a target window for said well such that the horizontal or producing portion of said wellbore shall be no closer than 330 feet to the outer boundary of said project area, the creation and formation of an oversized and irregularly shaped spacing and proration unit to accommodate said wellbore, and the assignment of a special oil allowable for such non-standard oil proration unit. Said project area is located approximately 4.5 miles south-southeast of Prairieview, New Mexico.
- CASE 11262: Application of Texaco Exploration and Production, Inc. for special pool rules, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order promulgating special rules and regulations for the South Sand Dunes-Bone Spring Pool including a provision for a limiting gas-oil ratio of 10,000 cubic feet of gas per barrel of oil. Said pool currently comprises portions of Sections 29, 30, 31, and 32, of Township 23 South, Range 32 East, and is located on the Lea/Eddy County line approximately 2 miles north of State Highway No. 128.

## CASE 11224: Continued from March 16, 1995, Examiner Hearing.

Application of Southeastern Petroleum, Inc. for compulsory pooling, Lea County, New Mexico. Applicant, in the abovestyled cause, seeks an order pooling all mineral interests from the surface to the base of the Strawn formation underlying the following described acreage in Section 28, Township 16 South, Range 37 East, and in the following manner: the W/2 SW/4 thereby forming a standard 80-acre oil spacing and proration unit for any and all pools developed on 80-acre spacing within said vertical extent which presently includes but is not necessarily limited to the Undesignated West Knowles-Drinkard Pool and the Undesignated West Casey-Strawn Pool; and the SW/4 SW/4 to form a standard 40-acre oil spacing and proration unit for any and all formations and/or pools developed on 40-acre spacing within said vertical extent which presently includes but is not necessarily limited to the Lovington-Grayburg San Andres Pool, Undesignated Lovington-Paddock Pool, Lovington-Abo Pool, and the Undesignated East Lovington-Upper Pennsylvanian (Cisco and Canyon formations) Pool. Said units are to be dedicated to the plugged and abandoned Shell Oil Company Home Stake Well No. 1 (T.D. - 12,125 feet), located at a standard oil well location 660 feet from the South and West lines (Unit M) of said Section 28. Also to be considered will be the costs of reentering and the recompletion of said well and the allocation of the costs thereof, as well as actual operating costs and charges for supervision, designation of applicant as operator of the well, and a charge for the risk involved in the re-entry of said well. The location of this wellbore is approximately 7 miles north-northwest of Humble City, New Mexico.

CASE 11263: Application of Yates Petroleum Corporation for compulsory pooling, Eddy County, New Mexico. Applicant, in the abovestyled cause, seeks an order pooling all mineral interests from the surface to the base of the Canyon formation underlying the NE/4 of Section 21, Township 19 South, Range 25 East, forming a standard 160-acre spacing and proration unit for any and all formations and/or pools developed on 160-acre spacing within said vertical extent, which presently includes but is not necessarily limited to the North Dagger Draw Upper-Pennsylvanian Pool. Said unit is to be dedicated to its Ross "EG" Federal Com Well No. 14 to be drilled at a standard location in the NW/4 NE/4 (Unit B) of said Section 21. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as the operator of the well and unit, and a charge for risk involved in drilling and completing said well. Said unit is located approximately 6.25 miles west by north of Lakewood, New Mexico.

## CASE 11232: (Contined from April 6, 1995, Examiner Hearing.)

Application of Nearburg Exploration Company for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests from the surface to the base of the Canyon formation underlying the NE/4 of Section 24, Township 19 South, Range 25 East, forming a standard 160-acre spacing and proration unit for any and all formations and/or pools developed on 160-acre spacing within said vertical extent, which presently includes but is not necessarily limited to the Undesignated North Dagger Draw Upper-Pennsylvanian Pool. Said unit is to be dedicated to its Fairchild "24" Well No. 2 to be drilled at a standard location in the NW/4 NE/4 (Unit B) of said Section 24. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of Nearburg Producing Company as the operator of the well and a charge for risk involved in drilling and completing said unit is located approximately 4 miles west-northwest of Lakewood, New Mexico.

- <u>CASE 11264</u>: Application of Yates Petroleum Corporation for compulsory pooling, Eddy County, New Mexico. Applicant, in the abovestyled cause, seeks an order pooling all mineral interests from the surface to the base of the Canyon formation underlying the NE/4 of Section 24, Township 19 South, Range 25 East, forming a standard 160-acre spacing and proration unit for any and all formations and/or pools developed on 160-acre spacing within said vertical extent, which presently includes but is not necessarily limited to the Undesignated North Dagger Draw Upper-Pennsylvanian Pool. Said unit is to be dedicated to its Fairchild "24" Well No. 2 to be drilled at a standard location in the NW/4 NE/4 (Unit B) of said Section 24. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as the operator of the well and unit, and a charge for risk involved in drilling and completing said well. Said unit is located approximately 4 miles west-northwest of Lakewood, New Mexico.
- <u>ASE 11265</u>: Application of Nearburg Exploration Company for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests from the surface to the base of the Canyon formation underlying the NE/4 of Section 21, Township 19 South, Range 25 East, forming a standard 160-acre spacing and proration unit for any and all formations and/or pools developed on 160-acre spacing within said vertical extent, which presently includes but is not necessarily limited to the North Dagger Draw Upper-Pennsylvanian Pool. Said unit is to be dedicated to its Alto "21" Well No. 1 to be drilled at a standard location in the NW/4 NE/4 (Unit B) of said Section 21. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of Nearburg Producing Company as the operator of the well and a charge for risk involved in drilling and completing said well. Said unit is located approximately 6.25 miles west by north of Lakewood, New Mexico.

- CASE 11266: Application of Nearburg Exploration Company for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests from the surface to the base of the Morrow formation, underlying the following described acreage in Section 32, Township 17 South, Range 27 East, and in the following manner: the N/2 to form a standard 320-acre gas spacing and proration unit for any and all formations and/or pools developed on 320acre spacing within said vertical extent which presently includes but is not necessarily limited to the Undesignated Jennings Spring-Wolfcamp Gas Pool, Undesignated Logan Draw-Cisco/Canyon Gas Pool, Undesignated Red Lake-Pennsylvanian Gas Pool, Undesignated West Logan Draw-Morrow Gas Pool, and Undesignated Logan Draw-Morrow Gas Pool; the NE/4 to form a standard 160-acre gas spacing and proration unit for any and all formations and/or pools developed on 160-acre spacing within said vertical extent; and the NW/4 NE/4 to form a standard 40-acre oil spacing and proration unit for any and all formations and/or pools developed on 40-acre spacing within said vertical extent which presently includes but is not necessarily limited to the Undesignated Red Lake Queen-Grayburg-San Andres Pool, Undesignated Empire-Abo Pool, and Undesignated Chalk Bluff-Wolfcamp Pool. Said units are to be dedicated to a single well to be drilled and completed at a standard location in Unit "B" of said Section 32. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof, as well as actual operating costs and charges for supervision, designation of Nearburg Producing Company as the operator of the well, and a charge for risk involved in drilling said well. Said well location is approximately 2.5 miles south of Riverside, New Mexico.
- CASE 11267: Application of Arch Petroleum Inc. for special pool rules, Lea County, New Mexic. Applicant, in the above-styled cause, seeks an order promulgating special rules and regulations for the Justis-Fusselman Pool including a provision for a limiting gasoil ratio of 10,000 cubic feet of gas per barrel of oil. Said pool currently comprises all or portions of Sections 13, 24, 25, and 36, of Township 25 South, Range 37 East, and portions of Sections 30 and 31, of Township 25 South, Range 38 East and is located approximately 5 miles east of Jal, New Mexico.
- CASE 11268: Application of Mack Energy Corporation for compulsory pooling, Lea County, New Mexico. Applicant, in the abovestyled cause, seeks an order pooling all mineral interests from the surface to the base of the Drinkard formation, underlying the NE/4 NW/4 (Unit C) of Section 27, Township 16 South, Range 38 East, to form a standard 40-acre oil spacing and proration unit for any and all formations and/or pools developed on 40-acre spacing within said vertical extent which presently includes but is not necessarily limited to the Undesignated Garrett-San Andres Pool, Undesignated Garrett-Drinkard Pool, and Undesignated East Garrett-Drinkard Pool. Said unit is to be dedicated to either the plugged and abandoned Texas Oil Company Gotlieb Ertel Well No. 1, located at a standard oil well location 660 feet from the North line and 1980 feet, more or less, from the West line of said Section 27, in which the applicant proposes to re-enter, <u>OR IN THE ALTERNATIVE</u>, to a new well to be drilled at a standard oil well location thereon. Also to be considered will be the costs of re-entering and the recompletion of said plugged well or drilling and completing a new well and the allocation of the costs thereof, as well as actual operating costs and charges for supervision, designation of applicant as operator of the unit and subsequent well, and a charge for the risk involved in the re-entry of said plugged well or in drilling a new well. Said unit is located approximately 4 miles north of Knowles, New Mexico.
- <u>CASE 11269</u>: Application of Amerada Hess Corporation for pool creation, the promulgation of special pool rules, assignment of an appropriate oil allowable, and for an unorthodox oil well location, Lea County, New Mexico. Applicant, in the abovestyled cause, seeks the creation of a new pool for the production of oil from the Ellenburger formation underlying all of Section 5, Township 23 South, Range 34 East (being approximately 20.5 miles west-southwest of Eunice, New Mexico) and for the promulgation of special rules and regulations therefor including provisions for 640-acre oil spacing and proration units, designated well location requirements, and for the assignment of an appropriate poolwide depth bracket oil allowable. Applicant further seeks approval of an unorthodox oil well location in this newly created Ellenburger oil pool for its North Bell Federal Well No. 2 (API No. 30-025-32672), located 1100 feet from the South line and 1500 feet from the West line (Unit N) of said Section 5, all of said Section 5 to be dedicated to said well thereby forming a 640.28-acre oil spacing and proration unit.
- CASE 11270: Application of Maralo, Inc. for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests from the surface to the base of the Morrow formation underlying Lots 3 and 4, the S/2 NW/4, and the SW/4 (W/2 equivalent) of Section 3, Township 19 South, Range 28 East, thereby forming a 320.90-acre gas spacing and proration unit for any and all formations and/or pools developed on 320-acre spacing within said vertical extent, which presently includes but is not necessarily limited to the Undesignated Millman-Wolfcamp Gas Pool, Undesignated Millman-Atoka Gas Pool, Undesignated North Turkey Track-Atoka Gas Pool, and Undesignated Millman-Morrow Gas Pool. Said unit is to be dedicated to a well to be drilled at a standard gas well location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as the operator of the well and unit, and a charge for risk involved in drilling and completing said well. Said unit is located approximately 3 miles east-southeast of the old Illinois Oil Camp.

CASE 11271: Application of Medallion Production Company for compulsory pooling and an unorthodox gas well location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests from the surface to the base of the Atoka formation, underlying the following described acreage in Section 31, Township 16 South, Range 35 East, and in the following manner: the E/2 to form a standard 320-acre gas spacing and proration unit for any and all formations and/or pools developed on 320-acre spacing within said vertical extent which presently includes but is not necessarily limited to the Undesignated North Vacuum Atoka-Morrow Gas Pool and Undesignated Shoe Bar-Atoka Gas Pool; the SE/4 to form a standard 160-acre gas spacing and proration unit for any and all formations and/or pools developed on 160-acre spacing within said vertical extent; the W/2 SE/4 to form a standard 80-acre oil spacing and proration unit for any and all pools developed on 80acre spacing within said vertical extent which presently includes only the Undesignated North Vacuum-Abo Pool; and the SW/4 SE/4 to form a standard 40-acre oil spacing and proration unit for any and all formations and/or pools developed on 40-acre spacing within said vertical extent which presently includes but is not necessarily limited to the Undesignated Vacuum-Grayburg San Andres Pool and Undesignated Northeast Vacuum-Wolfcamp Pool. Said units are to be dedicated to a single well to be drilled 660 feet from the South line and 1980 feet from the East line (Unit O) of said Section 31 being a standard well location for 40, 80, and 160-acre spacing and proration units but an unorthodox gas well location for a 320-acre spacing unit. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof, as well as actual operating costs and charges for supervision, designation of applicant as the operator of the well, and a charge for risk involved in drilling said well. Said well location is approximately 5 miles north of Buckeye, New Mexico.

### CASE 11227: Continued from March 16, 1995, Examiner Hearing.

Application of PermOK Oil, Inc. for a non-standard gas proration unit, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval to establish a non-standard 80-acre gas spacing and proration unit in the Undesignated Rhodes Yates-Seven Rivers Gas Pool comprising the N/2 NW/4 of Section 23, Township 26 South, Range 37 East, being approximately 6.5 miles southeast by south of Jal, New Mexico. Said unit is to be dedicated to its proposed Leonard Brothers "A" Federal Well No. 2 to be drilled at a standard gas well location 660 feet from the North and West lines (Unit D) of said Section 23.

### CASE 11194: (Continued from April 6, 1995, Examiner Hearing.)

Application of Charles B. Gillespie, Jr. for a pressure maintenance project and qualification for the recovered oil tax rate pursuant to the "New Mexico Enhanced Oil Recovery Act", Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval to institute a pressure maintenance project in the designated and Undesignated West Lovington-Strawn Pool within its proposed West Lovington Strawn Unit Area (being the subject of Case No. 11195) located in portions of Townships 15 and 16 South, Ranges 35 and 36 East, by the injection of natural gas through the perforated interval from approximately 11,424 feet to 11,434 feet into its existing Speight Fee Well No. 1 located 660 feet from the North line and 2310 feet from the West line (Lot 3/Unit C) of Section 1, Township 16 South, Range 35 East. Applicant further seeks to qualify this project for the recovered oil tax rate pursuant to the "New Mexico Enhanced Oil Recovery Act" (Law 1992, Chapter 38, Sections 1 through 5). Said project is located approximately 4.5 miles west-northwest of Lovington, New Mexico.

# CASE 11195: (Continued from April 6, 1995, Examiner Hearing.)

Application of Charles B. Gillespie, Jr. for statutory unitization, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order unitizing, for the purpose of establishing a pressure maintenance project, all mineral interests in the designated and Undesignated West Lovington-Strawn Pool underlying its proposed West Lovington Strawn Unit Area encompassing some 1457.05-acres, more or less, of Federal, State, and Fee lands comprising all of Section 33 and the W/2 of Section 34 of Township 15 South, Range 35 East, a portion of Section 1, Township 16 South, Range 35 East, and a portion of Section 6, Township 16 South, Range 36 East. Among the matters to be considered at the hearing, pursuant to the "New Mexico Statutory Unitization Act", Sections 70-7-1 et. seq., NMSA, will be the necessity of unit operations; the designation of a unit operator; the determination of horizontal and vertical limits of the unit area; the determination of the fair, reasonable and equitable allocation of production and costs of production, including capital investments, to each of the various tracts in the unit area; the determination of credits and changes to be made among the various owners in the unit area for their investment in wells and equipment; and such other matters as may be necessary and appropriate for carrying on efficient unit operations, including, but not necessarily limited to unit voting procedures, selection, removal or substitution of the unit operator, and time of commencement and termination of unit operations. Said unit area is centered approximately 4.5 miles West-Northwest of Lovington, New Mexico.

# CASE 11243: (Continued from April 6, 1995, Examiner Hearing.)

Application of Amoco Production Company for compulsory pooling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests from the surface to the base of the Pictured Cliffs formation underlying the following described acreage in Section 12, Township 29 North, Range 13 West, and in the following manner: the W/2 thereby forming a standard 320-acre gas spacing and proration unit for any and all pools developed on 320-acre spacing within said vertical extent which presently includes only the Basin-Fruitland Coal (Gas) Pool; and the SW/4 to form a standard 160-acre gas spacing and prorations and/or pools developed on 160-acre spacing within said vertical extent which presently includes but is not necessarily limited to the Undesignated West Kutz-Fruitland Sand Pool and Undesignated West Kutz-Pictured Cliffs Pool. Said units are to be dedicated to a single well (the proposed Burnham Gas Com "B" Well No. 1) to be drilled at a standard gas well location in the SW/4 of said Section 12. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof, as well as actual operating costs and charges for supervision, designation of applicant as the operator of the well and a charge for risk involved in drilling said well. Said area is located approximately 2.5 miles east-northeast of Farmington, New Mexico.

# CASE 11244: (Continued from April 6, 1995, Examiner Hearing.)

Application of Amoco Production Company for compulsory pooling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests from the surface to the base of the Pictured Cliffs formation underlying the NW/4 of Section 12, Township 29 North, Range 13 West, thereby forming a standard 160-acre gas spacing and proration unit for any and all formations and/or pools developed on 160-acre spacing within said vertical extent which presently includes but is not necessarily limited to the Undesignated West Kutz-Fruitland Sand Pool and Undesignated West Kutz-Pictured Cliffs Pool. Said unit is to be dedicated to a single well (the proposed Burnham Gas Com "A" Well No. 1) to be drilled at a standard gas well location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof, as well as actual operating costs and charges for supervision, designation of applicant as the operator of the well and a charge for risk involved in drilling said well. Said unit is located approximately 2.5 miles east-northeast of Farmington, New Mexico.

## CASE 11247: (Continued from April 6, 1995, Examiner Hearing.)

Application of Richardson Operating Co. for compulsory pooling, downhole commingling and an unorthodox gas well location, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Undesignated West Kutz-Pictured Cliffs Pool underlying the SW/4 of Section 12, Township 29 North, Range 13 West, and all mineral interests in the Basin-Fruitland Coal (Gas) Pool, under- lying the W/2 of said Section 12, thereby forming a standard 160-acre and 320-acre gas spacing and proration unit for both pools, respectively. Said units are to be dedicated to a single well, the proposed ROPCO Federal "12" Well No. 3, which is to be drilled at a potential unorthodox gas well location within 200 feet of a point 870 feet from the South line and 1180 feet from the West line of said Section 12. Applicant further seeks authorization to commingle Undesignated West Kutz-Pictured Cliffs Pool production with gas production from the Basin-Fruitland Coal (Gas) Pool within the wellbore of said well. Also to be considered will be the cost of participa- tion in said well, including but not limited to the costs of drilling, completing and equipping, with the inclusion of a risk factor penalty and the allocation of those costs and income therefor as well as actual operating costs and charges for supervision, designation of applicant as the operator of the well. Said well is located approximately 2.5 miles east-northeast of Farmington, New Mexico.

## CASE 11245: (Continued from April 6, 1995, Examiner Hearing.)

Application of Amoco Production Company for compulsory pooling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Undesignated West Kutz-Pictured Cliffs Pool underlying the NE/4 of Section 14, Township 29 North, Range 13 West, thereby forming a standard 160-acre gas spacing and proration unit. Said unit is to be dedicated to the Roberts Well No. 1 to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as the operator of the well and a charge for risk involved in drilling and completing said well. Said area is located approximately 1.5 miles east of Farmington, New Mexico.

## CASE 11248: (Continued from April 6, 1995, Examiner Hearing.)

Application of Bahlburg Exploration, Inc. for directional drilling and unorthodox oil well locations, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to re-enter the plugged and abandoned Manzano Oil Corporation Kim Harris Well No. 2, located 600 feet from the North line and 797 feet from the East line (Unit A) of Section 12, Township 16 South, Range 36 East, wherein the applicant proposes to kick-off from the vertical portion of the wellbore in a northerly direction to within 50 feet of the following targeted locations (both of which are unorthodox):

- in the Northeast Lovington-Wolfcamp Pool, 300 feet from the North line and 797 feet from the East line of said Section 12, the NE/4 NE/4 to be dedicated to this interval to form a standard 40-acre oil proration unit; and,
- in the Undesignated Northeast Lovington-Pennsylvanian Pool, 50 feet from the North line and 797 feet from the East line of said Section 12, the N/2 NE/4 to be dedicated to form a standard 80-acre oil proration unit.

Said well is located approximately 3 miles east of Lovington, New Mexico.

- <u>CASE 11272</u>: In the matter of the hearing called by the Oil Conservation Division upon its own motion for an order creating and extending certain pools in Rio Arriba, Sandoval, and San Juan Counties, New Mexico.
  - (a) CREATE a new pool in Rio Arriba County, New Mexico, classified as an oil pool for Mancos production and designated as the Dike Rock-Mancos Oil Pool. The discovery well is the Enre Corporation Leavry Canyon 18 I Well No. 1 located in Unit I of Section 18, Township 27 North, Range 2 West, NMPM. Said pool would comprise:

TOWNSHIP 27 NORTH, RANGE 2 WEST, NMPM Section 18: NE/4 SE/4

(Paragraph (b) will be dismissed.)

(b) CREATE a new pool in Rio Arriba County, New Mexico, classified as an oil pool for Gallup production and designated as the Ensenada-Gallup Oil Pool. The discovery well is the Meridian Oil Inc. Klein Well No. 28E located in Unit C of Section 33, Township 26 North, Range 6 West, NMPM. Said pool would comprise:

TOWNSHIP 26 NORTH, RANGE 6 WEST, NMPM Section 33: NW/4

(c) CREATE a new pool in San Juan County, New Mexico, classified as an oil pool for Gallup production and designated as the Greek-Gallup Oil Pool. The discovery well is the Dugan Production Corporation Pole's Paradise Well No. 2 located in Unit K of Section 9, Township 30 North, Range 14 West, NMPM. Said pool would comprise:

TOWNSHIP 30 NORTH, RANGE 14 WEST, NMPM Section 9: NW/4 SW/4

(d) EXTEND the BS Mesa-Gallup Pool in Rio Arriba County, New Mexico, to include therein:

TOWNSHIP 26 NORTH, RANGE 5 WEST, NMPM Section 2: SW/4

(e) EXTEND the Ballard-Pictured Cliffs Pool in Rio Arriba, San Juan, and Sandoval Counties, New Mexico, to include therein:

TOWNSHIP 24 NORTH, RANGE 6 WEST, NMPM Section 7: SW/4 Section 18: W/2

(f) EXTEND the Bisti-Chacra Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 22 NORTH, RANGE 9 WEST, NMPM Section 1: N/2 and SW/4

TOWNSHIP 23 NORTH, RANGE 9 WEST, NMPM Section 36: SW/4 (g) EXTEND the Blanco-Mesaverde Pool in Rio Arriba and San Juan Counties, New Mexico, to include therein:

TOWNSHIP 26 NORTH, RANGE 6 WEST, NMPM Section 19: N/2 Section 20: SW/4 Section 29: W/2 Section 32: All

(h) EXTEND the Cha Cha-Gallup Oil Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 29 NORTH, RANGE 14 WEST, NMPM Section 23: N/2 SW/4

(i) EXTEND the Fulcher Kutz-Pictured Cliffs Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 30 NORTH, RANGE 12 WEST, NMPM Section 27: SE/4 Section 35: SE/4

(j) EXTEND the West Kutz-Pictured Cliffs Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 27 NORTH, RANGE 11 WEST, NMPM Section 11: SE/4 Section 14: NE/4

TOWNSHIP 28 NORTH, RANGE 11 WEST, NMPM Section 20: E/2 Section 21: W/2

TOWNSHIP 29 NORTH, RANGE 13 WEST, NMPM Section 12: NE/4

(k) EXTEND the Otero-Chacra Pool in Rio Arriba County, New Mexico, to include therein:

TOWNSHIP 27 NORTH, RANGE 9 WEST, NMPM Section 13: SW/4 Section 24: W/2 Section 25: NW/4

(1) EXTEND the West Puerto Chiquito-Mancos Oil Pool in Rio Arriba County, New Mexico, to include therein:

TOWNSHIP 27 NORTH, RANGE 2 WEST, NMPM Sections 1 and 2: All

(m) EXTEND the Rusty-Chacra Pool in Sandoval County, New Mexico, to include therein:

TOWNSHIP 22 NORTH, RANGE 7 WEST, NMPM Section 5: SW/4 Section 6: S/2 and NE/4 Section 7: NE/4 Section 15: N/2 and SW/4 Section 16: All Section 17: N/2 Section 21: NW/4 Section 22: NW/4 (n) EXTEND the Tapacito-Pictured Cliffs Pool in Rio Arriba County, New Mexico, to include therein:

TOWNSHIP 27 NORTH, RANGE 3 WEST, NMPM Section 19: SE/4

TOWNSHIP 28 NORTH, RANGE 5 WEST, NMPM Section 15: SW/4 Section 22: S/2 and NW/4 Section 23: S/2 Section 26: N/2 Section 27: N/2

**DOCKET NO. 12-95** 

## DOCKET: COMMISSION HEARING - THURSDAY - APRIL 27, 1995 9:00 A.M. - 2040 SOUTH PACHECO SANTA FE, NEW MEXICO

- **CASE 11273:** In the matter of the application of the Oil Conservation Division on its own motion for an order adopting rules to implement the recently passed Production Restoration Incentive and Workover Severance Tax Exemption Act (HB 65). The New Mexico Oil Conservation Division seeks an order adopting rules setting forth the procedures to implement the provisions of this Act providing for the qualification of projects and the certification for the "Production Restoration or Workover Tax Rate". Evidence and testimony will not be taken at this time but a Committee will be appointed to produce a preliminary draft of rules for the Commission to consider at a later date.
- <u>CASE 11274</u>: Application of Meridian Oil Inc. to establish a statewide administrative procedure for approval of high angle/horizontal directional drilling projects in the State of New Mexico. Applicant, in the above-styled cause, seeks the establishment of a new rule or an amended Rule 111 of the Oil Conservation Division Rules and Regulations establishing a statewide administrative procedure for approval of high angle/horizontal directional drilling projects in the State of New Mexico without the necessity of holding a hearing.

#### CASE 10280: De Novo

In the matter of the Case No. 10280 being reopened pursuant to the provisions of Division Order Nos. R-9594 and R-9594-A, which orders promulgated temporary special rules and regulations for the Milnesand-Abo Pool in Lea and Roosevelt Counties, New Mexico, including a provision for 80-acre spacing. Operators in the subject pool may appear and show cause why said special pool rules should not be rescinded and why the Milnesand-Abo Pool should not be developed on other than 40-acre spacing and proration units. Upon the application of Petroleum Production Management, Inc., this case will be heard De Novo pursuant to the provisions of Rule 1220.

# SUPPLEMENT TO DOCKET NO. 11-95 EXAMINER HEARING

# CASE 11213: (Continued from April 6, 1995, Examiner Hearing.)

Application of Maralo, Inc. for compulsory pooling and an unorthodox oil well location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests from the surface to the base of the Devonian formation, underlying the NW/4 NE/4 (Unit B) of Section 20, Township 13 South, Range 38 East, forming a standard 40-acre oil spacing and proration unit. Said unit is to be dedicated to a well to be drilled at an unorthodox oil well location 350 feet from the North line and 1500 feet from the East line of said Section 20. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as the operator of the well and a charge for risk involved in drilling and completing said well. Said unit is located approximately 6.25 miles southeast by south of Gladiola, New Mexico.

# CASE 11246: (Continued from April 6, 1995, Examiner Hearing.)

Application of Richardson Operating Company for compulsory pooling and an unorthodox gas well location, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Undesignated West Kutz-Pictured Cliffs Pool underlying the NW/4 of Section 12, Township 29 North, Range 13 West, thereby forming a ""ndard 160-acre gas spacing and proration unit for said pool. Said "".", is to be dedicated to a single well (the proposed ROPCO Fee "12" Well No. 4) to be drilled at a non-standard gas well location within 200 feet of a point 147 feet from the North line and 1500 feet from the West line of said Section 12. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof, as well as actual operating costs and charges for supervision, designation of applicant as the operator of the well and a charge for risk involved in drilling said well. Said unit is located approximately 2.5 miles east-northeast of Farmington, New Mexico.

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

APR 1 7 1995

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:

Oil Conservation Division

CASE 20. 11247 APPLICATION OF RICHARDSON OPERATING COMPANY FOR COMPULSORY POOLING, DOWNHOLE COMMINGLING AND AN UNORTHODOX GAS WELL LOCATION, SAN JUAN COUNTY, NEW MEXICO.

CASE NO. 11243

APPLICATION OF AMOCO PRODUCTION COMPANY FOR COMPULSORY POOLING, SAN JUAN COUNTY, NEW MEXICO

# CONSOLIDATED PRE-HEARING STATEMENT

This pre-hearing statement is submitted by RICHARDSON OPERATING CO., as required by the Oil Conservation Division.

# **APPEARANCE OF PARTIES**

APPLICANT (Case 11247)

ATTORNEY

Richardson Operating Co. 1700 Lincoln, Suite 1700 Denver, Colorado 80203 (303) 830-8000 attn: Cathy Colby W. Thomas Kellahin KELLAHIN AND KELLAHIN P.O. Box 2265 Santa Fe, New Mexico 87504 (505) 982-4285 NMOCD Cases 11243 & 11247 Richardson Operating Company Page 2.

APPLICANT (Case 11243)

# ATTORNEY

Amoco Production Company

William F. Carr, Esq. P. O. Box 2208 Santa Fe, New Mexico 87501 (505) 988-4421

# STATEMENT OF RICHARDSON OPERATING COMPANY

Richardson has a working interest ownership in the oil and gas minerals underlying the SW/4 and the W/2 of Section 12, T29N, R13W, NMPM, San Juan County, New Mexico.

In order to minimize surface disturbance within the SW/4 of said Section 12, Richardson seeks approval to locate its ROPCO Federal 12 Well No. 3 at a point within 200 feet radius of the Amoco Burnham Gas Com Well No. 1, which is an existing Dakota producing well located 870 feet FSL and 1180 feet FWL of said Section 12.

Richardson has proposed to the other working interest owners that this well be drilled and completed as a "downhole commingled completion" for potential production from the Basin Fruitland Coal Gas Pool with any Pictured Cliffs production to be dedicated respectively to a 320-acre coal-gas spacing and proration unit consisting of the W/2 of Section 12 and to a 160-acre gas spacing and proration unit consisting of the SW/4 of said Section for production from either the Fulcher Kutz-Pictured Cliffs Gas Pool or the West Kutz-Pictured Cliffs Gas Pool.

Despite its good faith efforts, Richardson has been unable to obtain a written voluntary agreement from one of the working interest parties, Amoco Production Company. Therefore, Richardson needs an order of the Division pooling the identified and described mineral interests of Amoco Production Company in order to protect correlative rights and prevent waste. NMOCD CASES 11243 & 11247 Richardson Operating Company Page 3

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# PROPOSED EVIDENCE

# APPLICANT:

WITNESSES EST. TIME EX		IE EXHIBITS
Cathy Colby (landman)	20 min.	@ 8 exhibits
David B. Richardson (geologist)	20 Min.	@ 3 exhibits
Dana Delventhal (petroleum engineer)	30 Min.	@ 6 exhibits
Rod Markham	30 Min.	@ 6 exhibits

# **PROCEDURAL MATTERS**

None anticipated at this time.

**KELLAHIN AND KELLAHIN** By:

W. Thomas Kellahin P.O. Box 2265 Santa Fe, New Mexico 87504 (505) 982-4285

## DOCKET: EXAMINER HEARING - THURSDAY - APRIL 6, 1995 8:15 A.M. - 2040 SOUTH PACHECO SANTA FE, NEW MEXICO

Dockets Nos. 11-95 and 12-95 are tentatively set for April 20, 1995 and May 4, 1995. Applications for hearing must be filed at least 23 days in advance of hearing date. The following cases will be heard by an Examiner:

- CASE 11202: In the matter of the hearing called by the Oil Conservation Division ("Division") on its own motion to permit Billy R. Wilson-Robinson Brothers Drilling (Company), Inc., operator, The Travelers Indemnity Company, surety, and all other interested parties to appear and show cause why the State "A" Well No. 1 (API No. 30-015-02331), located 660 feet from the South and West lines (Unit M) of Section 36, Township 19 South, Range 28 East, Eddy County, New Mexico (which is approximately 8 miles southeast by south of the old Illinois Production Camp), should not be plugged and abandoned in accordance with a Division-approved plugging program. Should the operator fail to properly plug said well, the Division should then be authorized to take such action as is deemed necessary to have the well properly plugged and abandoned and to direct the operator to pay the costs of such plugging.
- **CASE 11228:** In the matter of the hearing called by the Oil Conservation Division ("Division") on its own motion to permit the operator, Rapid Company, Inc., and all other interested parties to appear and show cause why the Copelan State Well No. 1 (API No. 30-005-60372), located 330 feet from the North line and 1650 feet from the West line (Unit C) and the Copelan State Well No. 2, located 660 feet from the North and East lines (Unit A), both in Section 31, Township 10 South, Range 27 East, Chaves County, New Mexico (which is approximately 8 miles northeast of the Bottomless Lake State Park), should not be plugged and abandoned in accordance with a Division-approved plugging program. Should the operator fail to properly plug said wells, the Division should then be authorized to take such action as is deemed necessary to have both wells properly plugged and abandoned and to direct the operator to pay the costs of such plugging.
- **CASE 11229:** In the matter of the hearing called by the Oil Conservation Division ("Division") on its own motion to permit the operator, Phoenix Resources Company, and all other interested parties to appear and show cause why the Powell Well No. 1 (API No. **30-005-60668**), located 660 feet from the North line and 1980 feet from the West line (Unit C) of Section 23, Township 7 South, Range 28 East, Chaves County, New Mexico (which is approximately 1/2 mile west of Elkins, New Mexico), should not be plugged and abandoned in accordance with a Division-approved plugging program. Should the operator fail to properly plug said well, the Division should then be authorized to take such action as is deemed necessary to have the well properly plugged and abandoned and to direct the owner/operator to pay the costs of such plugging.
- **CASE 11230:** In the matter of the hearing called by the Oil Conservation Division ("Division") on its own motion to permit the operator, Leonard Oil Company, and all other interested parties to appear and show cause why the State B-7717 Well No. 1 located approximately 1980 feet from the South line and 660 feet from the East line (Unit H) of Section 2, Township 19 South, Range 29 East, Eddy County, New Mexico (which is approximately 9.5 miles south-southwest of Loco Hills, New Mexico), should not be plugged and abandoned in accordance with a Division-approved plugging program. Should the operator fail to properly plug said well, the Division should then be authorized to take such action as is deemed necessary to have the well properly plugged and abandoned and to direct the owner/operator to pay the costs of such plugging.
- CASE 11226: Continued from March 16, 1995, Examiner Hearing.

Application of Santa Fe Energy Resources, Inc. for compulsory pooling and an unorthodox gas well location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests from the surface to the base of the Devonian formation underlying the following described acreage in Section 29, Township 22 South, Range 34 East, and in the following manner: the entire section to form a standard 640-acre gas spacing and proration unit for any and all pools developed on 640-acre spacing within said vertical extent which presently includes only the Undesignated North Bell Lake-Devonian Gas Pool; and the N/2 to form a standard 320-acre gas spacing and proration unit for any and all formations and/or pools developed on 320-acre spacing within said vertical extent which presently includes but is not necessarily limited to the Undesignated Antelope Ridge-Atoka Gas Pool. Said units are to be dedicated to a single well to be drilled at an unorthodox gas well location 1330 feet from the North and East lines (Unit G) of said Section 29. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof, as well as actual operating costs and charges for supervision, designation of applicant as the operator of the well and a charge for risk involved in drilling said well. Said unit is located approximately 20 miles west by south of Eunice, New Mexico.

<u>CASE 11231</u>: Application of Enron Oil & Gas Company for compulsory pooling, Lea County, New Mexico. Applicant, in the abovestyled cause, seeks an order pooling all mineral interests from the surface to the base of the Bone Spring formation, underlying the NW/4 NW/4 (Unit D) of Section 20, Township 25 South, Range 35 East, to form a standard 40-acre oil spacing and proration unit. The applicant proposes to re-enter the Southland Royalty Company Gulf Federal Well No. 1, located at a standard oil well location 660 feet from the North and West lines of said Section 20. Also to be considered will be the costs of re-entering and the recompletion of said well and the allocation of the costs thereof, as well as actual operating costs and charges for supervision, designation of applicant as operator of the well, and a charge for the risk involved in the re-entry of said well. Said unit is located approximately 12 miles west of Jal, New Mexico.

- CASE 11232: Application of Nearburg Exploration Company for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests from the surface to the base of the Canyon formation unit for any and all formations and/or pools developed on 160-acre spacing within said vertical extent, which presently includes but is not necessarily limited to the Undesignated North Dagger Draw Upper-Pennsylvanian Pool. Said unit is to be dedicated to its Fairchild "24" Well No. 2 to be drilled at a standard location in the NW/4 NE/4 (Unit B) of said Section 24. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of Nearburg Producing Company as the operator of the well and a charge for risk involved in drilling and completing said unit is located approximately 4 miles west-northwest of Lakewood, New Mexico.
- CASE 11233: Application of Nearburg Exploration Company for compalsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests from the surface to the base of the Canyon formation underlying the SW/4 of Section 13, Township 19 South, Range 25 East, forming a standard 160-acre spacing and proration unit for any and all formations and/or pools developed on 160-acre spacing within said vertical extent, which presently includes but is not necessarily limited to the Undesignated North Dagger Draw Upper-Pennsylvanian Pool. Said unit is to be dedicated to its Fairchild "13" Well No. 2 to be drilled at a standard location in the SE/4 SW/4 (Unit N) of said Section 13. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of Nearburg Producing Company as the operator of the well and a charge for risk involved in drilling and completing said well. Said unit is located approximately 4.5 miles west-northwest of Lakewood, New Mexico.

## CASE 11222: Continued from March 16, 1995, Examiner Hearing.

Application of Yates Petroleum Corporation for certification of a positive production response pursuant to New Mexico's "Enhanced Oil Recovery Act", Lea County, New Mexico. Applicant, in the above-styled cause, seeks certification, pursuant to the Rules and Procedures for Qualification of Enhanced Oil Recovery Projects and Certification for the Recovered Oil Tax Rate, as promulgated by Division Order No. R-9708, for a positive production response on its Sanmal Queen Unit Waterflood Project, which qualified for the recovered oil tax rate under New Mexico's "Enhanced Oil Recovery Act" (Laws 1992, Chapter 38, Sections 1 through 5) by Division Order No. R-9961. Said project is located in portions of Sections 1 and 12, Township 17 South, Range 33 East, which is located approximately 3 miles north of Buckeye, New Mexico.

## CASE 11223: Continued from March 16, 1995, Examiner Hearing.

Application of Yates Drilling Company for certification of a positive production response pursuant to New Mexico's "Enhanced Oil Recovery Act", Chaves County, New Mexico. Applicant, in the above-styled cause, seeks certification, pursuant to the Rules and Procedures for Qualification of Enhanced Oil Recovery Projects and Certification for the Recovered Oil Tax Rate, as promulgated by Division Order No. R-9708, for a positive production response on the "expanded area" of the Cactus Queen (Voluntary) Unit Waterflood Project comprising the SW/4 NE/4, S/2 NW/4, SW/4, and NW/4 SE/4 of Section 34, Township 12 South, Range 31 East, which qualified for the recovered oil tax rate under New Mexico's "Enhanced Oil Recovery Act" (Laws 1992, Chapter 38, Sections 1 through 5) by Division Order No. R-9075-B-1. Said area is located approximately 12 miles southwest by west of Caprock, New Mexico.

- CASE 11234: Application of Yates Petroleum Corporation for compulsory pooling, Eddy County, New Mexico. Applicant, in the abovestyled cause, seeks an order pooling all mineral interests from the surface to the base of the Canyon formation underlying the SW/4 of Section 13, Township 19 South, Range 25 East, forming a standard 160-acre spacing and proration unit for any and all formations and/or pools developed on 160-acre spacing within said vertical extent, which presently includes but is not necessarily limited to the Undesignated North Dagger Draw Upper-Pennsylvanian Pool. Said unit is to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as the operator of the well and a charge for risk involved in drilling and completing said well. Said unit is located approximately 4.5 miles west-northwest of Lakewood, New Mexico.
- <u>CASE 11235</u>: Application of Yates Petroleum Corporation for an unorthodox oil well location and simultaneous dedication, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for an unorthodox oil well location in the North Dagger Draw-Upper Pennsylvanian Pool to be drilled 330 feet from the South line and 1980 feet from the West line (Unit N) of Section 29, Township 19 South, Range 25 East. Said well is to be included within the existing standard 160-acre oil spacing and proration unit comprising the SW/4 of said Section 29 and its production to be simultaneously dedicated with the existing Boyd "X" State Com Well No. 4 located in Unit "K", the Boyd "X" State Com Well No. 2 in Unit "L", and the Aspden "AOH" Federal Com Well No. 1 in Unit "M". Said unit is located approximately 8 miles west of Lakewood, New Mexico.

<u>CASE 11236</u>: Application of Yates Petroleum Corporation for a pressure maintenance project, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a pressure maintenance project on a portion of its Quincy "AMQ" State lease underlying the NW/4 of Section 12, Township 8 South, Range 27 East, by the injection of water into the Southeast Acme-San Andres Pool through the perforated interval from approximately 2162 feet to 2182 feet in its Quincy "AMQ" State Well No. 8, located 2310 feet from the North and West lines (Unit F) of said Section 12. This area is located approximately 7 miles southwest by west of Elkins, New Mexico.

## CASE 11198: (Continued from March 2, 1995, Examiner Hearing.)

Application of Yates Petroleum Corporation for compulsory pooling, Eddy County, New Mexico. Applicant, in the abovestyled cause, seeks an order pooling all mineral interests from the surface to the base of the Canyon formation, underlying the NW/4 of Section 21, Township 19 South, Range 25 East, forming a standard 160-acre spacing and proration unit for any and all formations and/or pools developed on 160-acre spacing within said vertical extent, which presently includes only the North Dagger Draw-Upper Pennsylvanian Pool. Said unit is to be dedicated to its Hooper "AMP" Well No. 2, which has been drilled at a standard location 1980 feet from the North line and 660 feet from the West line (Unit E) of said Section 21. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as the operator of the well and a charge for risk involved in drilling and completing said well. Said unit is located approximately 6.5 miles west by north of Lakewood, New Mexico.

# CASE 11199: (Continued from March 2, 1995, Examiner Hearing.)

Application of Yates Petroleum Corporation for compulsory pooling, Eddy County, New Mexico. Applicant, in the abovestyled cause, seeks an order pooling all mineral interests from the surface to the base of the Canyon formation, underlying the SW/4 of Section 21, Township 19 South, Range 25 East, forming a standard 160-acre spacing and proration unit for any and all formations and/or pools developed on 160-acre spacing within said vertical extent, which presently includes only the North Dagger Draw-Upper Pennsylvanian Pool. Said unit is to be dedicated to its Hooper "AMP" Well No. 1, which has been drilled at a standard location 820 feet from the South line and 660 feet from the West line (Unit M) of said Section 21. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as the operator of the well and a charge for risk involved in drilling and completing said well. Said unit is located approximately 6.5 miles west by north of Lakewood, New Mexico.

# CASE 11200: (Continued from March 2, 1995, Examiner Hearing.)

Application of Yates Petroleum Corporation for compulsory pooling, Eddy County, New Mexico. Applicant, in the abovestyled cause, seeks an order pooling all mineral interests from the surface to the base of the Canyon formation, underlying the SE/4 of Section 21, Township 19 South, Range 25 East, forming a standard 160-acre spacing and proration unit for any and all formations and/or pools developed on 160-acre spacing within said vertical extent, which presently includes only the Undesignated North Dagger Draw-Upper Pennsylvanian Pool. Said unit is to be dedicated to its Patriot "AIZ" Well No. 5, which has been drilled at a standard location 660 feet from the South line and 1980 feet from the East line (Unit O) of said Section 21. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as the operator of the well and a charge for risk involved in drilling and completing said well. Said unit is located approximately 6.25 miles west by north of Lakewood, New Mexico.

- CASE 11237: Application of Bonneville Fuels Corporation for an unorthodox oil well location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for an unorthodox oil well location in the Undesignated South Humble City- Strawn Pool to be drilled 2030 feet from the South line and 2300 feet from the West line (Unit K) of Section 14, Township 17 South, Range 37 East. The E/2 SW/4 of said Section 14 is to be dedicated to said well forming a standard 80-acre oil spacing and proration unit for said pool. Said unit is located approximately 5 miles north of the Hobbs Industrial Air Park.
- **CASE 11238:** Application of Marbob Energy Corporation for an unorthodox oil well location, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks approval of an unorthodox oil well location in the South Lone Wolf-Devonian Pool for its White Fang Federal Well No. 1 to be drilled 1353 feet from the North line and 1914 feet from the West line (Unit F) of Section 33, Township 13 South, Range 29 East. The SE/4 NW/4 of said Section 33 is to be dedicated to said well forming a standard 40-acre oil spacing and proration unit for said pool. Said unit is located approximately 17 miles east by north of Hagerman, New Mexico.

**CASE 11239:** Application of Marbob Energy Corporation for an unorthodox oil well location, Chaves County, New Mexico. Applicant. in the above-styled cause, seeks approval to drill its Havasu Federal Well No. 1 to test the Devonian formation, at an unorthodox oil well location of 2588 feet from the South line and 2309 feet from the East line (Unit J) in Section 11, Township 13 South, Range 27 East. The NW/4 SE/4 of said Section 11 is to be dedicated to said well forming a standard 40-acre oil spacing and proration unit. Said unit is located approximately 9.5 miles east of Dexter, New Mexico.

## CASE 11213: (Continued from March 2, 1995, Examiner Hearing.)

Application of Marale, Inc. for compulsory pooling and an unorthodox oil well location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests from the surface to the base of the Devonian formation, underlying the NW/4 NE/4 (Unit B) of Section 20, Township 13 South, Range 38 East, forming a standard 40-acre oil spacing and proration unit. Said unit is to be dedicated to a well to be drilled at an unorthodox oil well location 350 feet from the North line and 1500 feet from the East line of said Section 20. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as the operator of the well and a charge for risk involved in drilling and completing said well. Said unit is located approximately 6.25 miles southeast by south of Gladiola, New Mexico.

- CASE 11240: Application of Conoco Inc. to reopen Case Nos. 10471 and 10560 to vacate the compulsory pooling provisions of Order No. R-9673-A and for the creation of two non-standard 80-acre spacing and proration units including the assignment of appropriate allowables, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks to reopen Case Nos. 10471 and 1560, pursuant to the provisions of Order No. R-9673-A, to vacate the compulsory pooling provision thereof and to create two non-standard 80-acre spacing and proration units consisting of the N/2 NE/4 and the S/2 NE/4 of Section 17, Township 19 South, Range 25 East, for production from the North Dagger Draw-Upper Pennsylvanian Pool, including the assignment of appropriate allowables, designation of operators and other matters. These units are located 8 miles west by north of Lakewood, New Mexico.
- **CASE 11241:** Application of Conoco, Inc. for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for its Julie Com Well No. 3 to be drilled 660 feet from the North and East lines (Unit A) of Section 17, Township 19 South, Range 25 East, and completed in both the North Dagger Draw-Upper Pennsylvanian Pool and the Undesignated Boyd-Morrow Gas Pool. Said well location is standard for the Upper Pennsylvanian interval and unorthodox for the Morrow formation. Further, the N/2 of said Section 17 is to be dedicated to said well to form a standard 320-acre gas spacing and proration unit in the Boyd-Morrow Gas Pool. Said unit is located approximately 8 miles west by north of Lakewood, New Mexico.
- CASE 11242: Application of Conoco, Inc. for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for its Savannah Well No. 1 to be drilled 660 feet from the North and East lines (Unit A) of Section 32, Township 19 South, Range 25 East, and completed in both the Undesignated North Dagger Draw-Upper Pennsylvanian Pool and the Undesignated Cemetery-Morrow Gas Pool. Said well location is standard for the Upper Pennsylvanian interval and unorthodox for the Morrow formation. Further, the N/2 of said Section 32 is to be dedicated to said well to form a standard 320-acre gas spacing and proration unit in the Cemetery-Morrow Gas Pool. Said unit is located approximately 8 miles west of Lakewood,-New Mexico.

## CASE 11219: Continued from March 16, 1995, Examiner Hearing.

Application of Conoco, Inc. for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for its Preston "35-N" Federal Com Well No. 15 to be drilled 860 feet from the North line and 710 feet from the West line (Unit D) in Section 35, Township 20 South, Range 24 East, and completed in both the South Dagger Draw-Upper Pennsylvanian Associated Pool and Cemetery-Morrow Gas Pool. Said well location is standard for the Upper Pennsylvanian interval and unorthodox for the Morrow formation. Further, said well is to be a replacement gas well in the existing standard 320-acre gas spacing and proration unit in the Cemetery-Morrow Gas Pool currently dedicated to its Preston "35-N" Federal Well No. 6, located in Unit "A" of said Section 35. Said unit is located approximately 9 miles west-southwest of Seven Rivers, New Mexico.

# CASE 11218: Continued from March 16, 1995, Examiner Hearing.

Application of Naumann Oil & Gas, Inc. for compulsory pooling and an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests from the surface to the base of the Morrow formation underlying the following described acreage in Section 34, Township 17 South, Range 29 East, and in the following manner: the S/2 thereby forming a standard 320-acre gas spacing and proration unit for any and all pools developed on 320-acre spacing within said vertical extent which presently includes but is not necessarily limited to the Undesignated Grayburg-Strawn Gas Pool, Undesignated-Atoka Gas Pool, Undesignated South Empire-Morrow Gas Pool and the Undesignated Grayburg-Morrow Gas Pool; and the SW/4 to form a standard 160-acre gas spacing and proration unit for any and all formations and/or pools developed on 160-acre spacing within said vertical extent. Said units are to be dedicated to a single well to be drilled at an unorthodox gas well location 1980 feet from the South line and 1330 feet from the West line (Unit K) of said Section 34. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof, as well as actual operating costs and charges for supervision, designation of applicant as the operator of the well and a charge for risk involved in drilling said well. Said unit is located approximately 5 miles west-southwest of Loco Hills, New Mexico.

## CASE 11209: (Reopened)

Application of Amoco Production Company for surface commingling, San Juan County, New Mexico. In the matter of Case 11209 being reopened by Amoco Production Company for authorization to surface commingle Blanco-Mesaverde Pool gas production with South Blanco-Pictured Cliffs Pool gas production from its Jones "A-LS" Well No. 1A (API No. 30-045-22747), located 1460 feet from the South line and 1750 feet from the East line (Lot 2/Unit J) of irregular Section 10, Township 28 North, Range 8 West. Said well is located approximately 10 miles east-southeast of Blanco, New Mexico. <u>IN THE ABSENCE OF OBJECTION THIS APPLICATION WILL BE TAKEN UNDER ADVISEMENT</u>.

- <u>CASE 11243</u>: Application of Amoco Production Company for compulsory pooling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests from the surface to the base of the Pictured Cliffs formation underlying the following described acreage in Section 12, Township 29 North, Range 13 West, and in the following manner: the W/2 thereby forming a standard 320-acre gas spacing and proration unit for any and all pools developed on 320-acre spacing within said vertical extent which presently includes only the Basin-Fruitland Coal (Gas) Pool; and the SW/4 to form a standard 160-acre gas spacing and proration unit for any and all formations and/or pools developed on 160-acre spacing within said vertical extent which presently includes but is not necessarily limited to the Undesignated West Kutz-Fruitland Sand Pool and Undesignated West Kutz-Pictured Cliffs Pool. Said units are to be dedicated to a single well (the proposed Burnham Gas Com "B" Well No. 1) to be drilled at a standard gas well location in the SW/4 of said Section 12. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof, as well as actual operating costs and charges for supervision, designation of applicant as the operator of the well and a charge for risk involved in drilling said well. Said area is located approximately 2.5 miles east-northeast of Farmington, New Mexico.
- **CASE 11244:** Application of Amoco Production Company for compulsory pooling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests from the surface to the base of the Pictured Cliffs formation underlying the NW/4 of Section 12, Township 29 North, Range 13 West, thereby forming a standard 160-acre gas spacing and proration unit for any and all formations and/or pools developed on 160-acre spacing within said vertical extent which presently includes but is not necessarily limited to the Undesignated West Kutz-Fruitland Sand Pool and Undesignated West Kutz-Pictured Cliffs Pool. Said unit is to be dedicated to a single well (the proposed Burnham Gas Com "A" Well No. 1) to be drilled at a standard gas well location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof, as well as actual operating costs and charges for supervision, designation of applicant as the operator of the well and a charge for risk involved in drilling said well. Said unit is located approximately 2.5 miles east-northeast of Farmington, New Mexico.
- **CASE 11245:** Application of Amoco Production Company for compulsory pooling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Undesignated West Kutz-Pictured Cliffs Pool underlying the NE/4 of Section 14, Township 29 North, Range 13 West, thereby forming a standard 160-acre gas spacing and proration unit. Said unit is to be dedicated to the Roberts Well No. 1 to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as the operator of the well and a charge for risk involved in drilling and completing said well. Said area is located approximately 1.5 miles east of Farmington, New Mexico.

- CASE 11246: Application of Richardson Operating Company for compulsory pooling and an unorthodox gas well location, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Undesignated West Kutz-Pictured Cliffs Pool underlying the NW/4 of Section 12, Township 29 North, Range 13 West, thereby forming a standard 160-acre gas spacing and proration unit for said pool. Said unit is to be dedicated to a single well (the proposed ROPCO Fee "12" Well No. 4) to be drilled at a non-standard gas well location within 200 feet of a point 147 feet from the North line and 1500 feet from the West line of said Section 12. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof, as well as actual operating costs and charges for supervision, designation of applicant as the operator of the well and a charge for risk involved in drilling said well. Said unit is located approximately 2.5 miles east-northeast of Farmington, New Mexico.
- CASE 11247: Application of Richardson Operating Co. for compulsory pooling, downhole commingling and an unorthodox gas well location, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Undesignated West Kutz-Pictured Cliffs Pool underlying the SW/4 of Section 12, Township 29 North, Range 13 West, and all mineral interests in the Basin-Fruitland Coal (Gas) Pool, under-lying the W/2 of said Section 12, thereby forming a standard 160-acre and 320-acre gas spacing and proration unit for both pools, respectively. Said units are to be dedicated to a single well, the proposed ROPCO Federal "12" Well No. 3, which is to be drilled at a potential unorthodox gas well location within 200 feet of a point 870 feet from the South line and 1180 feet from the West line of said Section 12. Applicant further seeks authorization to commingle Undesignated West Kutz-Pictured Cliffs Pool production with gas production from the Basin-Fruitland Coal (Gas) Pool within the wellbore of said well. Also to be considered will be the cost of participa- tion in said well, including but not limited to the costs of drilling, completing and equipping, with the inclusion of a risk factor penalty and the allocation of those costs and income therefor as well as actual operating costs and charges for supervision, designation of applicant as the operator of the well. Said well is located approximately 2.5 miles east-northeast of Farmington, New Mexico.

### CASE 11148: (Reopened and Readvertised)

Application of Meridian Oil Inc. for downhole commingling and a non-standard gas proration unit, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks approval to downhole commingle conventional Aztec-Pictured Cliffs Pool gas production, which is currently dedicated to a non-standard 202.82-acre gas spacing and proration unit comprising Lots 2, 3 and 4, the S/2 SW/4 and the SW/4 SE/4, with gas production from the Basin-Fruitland Coal (Gas) Pool within the wellbore of its existing Zachry Well No. 1 located at a standard gas well location for both intervals 990 feet from the South line and 1650 feet from the West line (Unit N) of Irregular Section 12, Township 28 North, Range 10 West. All of said Section 12 is to be dedicated to the subject well in the Basin-Fruitland Coal Gas Pool forming a non-standard 270.11-acre gas spacing and proration unit. Said well is located approximately 8.5 miles southeast of Bloomfield, New Mexico. In The Absence of Objection, This Application Will Be Taken Under Advisement.

- CASE 11248: Application of Bahlburg Exploration, Inc. for directional drilling and unorthodox oil well locations, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to re-enter the plugged and abandoned Manzano Oil Corporation Kim Harris Well No. 2, located 600 feet from the North line and 797 feet from the East line (Unit A) of Section 12, Township 16 South, Range 36 East, wherein the applicant proposes to kick-off from the vertical portion of the wellbore in a northerly direction to within 50 feet of the following targeted locations (both of which are unorthodox):
  - in the Northeast Lovington-Wolfcamp Pool, 300 feet from the North line and 797 feet from the East line of said Section 12, the NE/4 NE/4 to be dedicated to this interval to form a standard 40-acre oil proration unit; and,
  - in the Undesignated Northeast Lovington-Pennsylvanian Pool, 50 feet from the North line and 797 feet from the East line of said Section 12, the N/2 NE/4 to be dedicated to form a standard 80-acre oil proration unit.

Said well is located approximately 3 miles east of Lovington, New Mexico.

#### CASE 11099: (Continued from March 2, 1995, Examiner Hearing.)

Application of TARA-JON Corporation for compulsory pooling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests from the surface to the base of the Drinkard formation underlying the NE/4 NW/4 (Unit C) of Section 27, Township 16 South, Range 38 East, forming a standard 40-acre oil spacing and proration unit for any and all formations and/or pools developed on 40-acre spacing within said vertical extent, which presently includes but is not necessarily limited to the Undesignated Garrett-San Andres Pool, Undesignated Garrett-Drinkard Pool, and Undesignated East Garrett-Drinkard Pool. Said pooled unit is to be dedicated to <u>either</u> the plugged and abandoned The Texas Company Gotlieb Ertal Well No. 1 (T.D. - 13,310 feet), located at a standard oil well location 660 feet from the North line and 1982 feet from the West line, more or less, of said Section 27 or, if said Gotlieb Ertal Well No. 1 is found not to be mechanically sound, to a new well to be drilled at a standard oil well location thereon. Also to be considered will be the cost of re-entering and recompleting the old plugged and abandoned well and/or the costs of drilling and completing a new well and the allocation of the cost thereof, as well as actual operating costs and charges for supervision, designation of applicant as the operator of the unit and a charge for risk involved in re-entering the old plugged and abandoned well and/or the drilling of a new well. Said unit is located approximately 12 miles north of Hobbs, New Mexico.

#### CASE 11194: (Continued from March 2, 1995, Examiner Hearing.)

Application of Charles B. Gillespie, Jr. for a pressure maintenance project and qualification for the recovered oil tax rate pursuant to the "New Mexico Enhanced Oil Recovery Act", Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval to institute a pressure maintenance project in the designated and Undesignated West Lovington-Strawn Pool within its proposed West Lovington Strawn Unit Area (being the subject of Case No. 11195) located in portions of Townships 15 and 16 South, Ranges 35 and 36 East, by the injection of natural gas through the perforated interval from approximately 11,424 feet to 11,434 feet into its existing Speight Fee Well No. 1 located 660 feet from the North line and 2310 feet from the West line (Lot 3/Unit C) of Section 1, Township 16 South, Range 35 East. Applicant further seeks to qualify this project for the recovered oil tax rate pursuant to the "New Mexico Enhanced Oil Recovery Act" (Law 1992, Chapter 38, Sections 1 through 5). Said project is located approximately 4.5 miles west-northwest of Lovington, New Mexico.

#### CASE 11195: (Continued from March 2, 1995, Examiner Hearing.)

Application of Charles B. Gillespie, Jr. for statutory unitization, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order unitizing, for the purpose of establishing a pressure maintenance project, all mineral interests in the designated and Undesignated West Lovington-Strawn Pool underlying its proposed West Lovington Strawn Unit Area encompassing some 1457.05-acres, more or less, of Federal, State, and Fee lands comprising all of Section 33 and the W/2 of Section 34 of Township 15 South, Range 35 East, a portion of Section 1, Township 16 South, Range 35 East, and a portion of Section 6, Township 16 South, Range 36 East. Among the matters to be considered at the hearing, pursuant to the "New Mexico Statutory Unitization Act", Sections 70-7-1 et. seq., NMSA, will be the necessity of unit operations; the designation of a unit operator; the determination of horizontal and vertical limits of the unit area; the determination of the fair, reasonable and equitable allocation of credits and changes to be made among the various owners in the unit area for their investment in wells and equipment; and such other matters as may be necessary and appropriate for carrying on efficient unit operations, including, but not necessarily limited to unit voting procedures, selection, removal or substitution of the unit operator, and time of commencement and termination of unit operations. Said unit area is centered approximately 4.5 miles West-Northwest of Lovington, New Mexico.

- <u>CASE 11249</u>: In the matter of the hearing called by the Oil Conservation Division upon its own motion for an order creating, contracting vertical limits, and extending horizontal limits of certain pools in Lea County, New Mexico.
  - (a) CREATE a new pool in Lea County, New Mexico, classified as an oil pool for Delaware production and designated as the Cinta Roja-Delaware Pool. The discovery well is the Pogo Producing Company Antelope 5 Federal Well No. 1 located in Unit F of Section 5, Township 24 South, Range 35 East, NMPM. Said pool would comprise:

TOWNSHIP 24 SOUTH, RANGE 35 EAST, NMPM Section 5: NW/4 (b) CREATE a new pool in Lea County. New Mexico, classified as an oil pool for Bone Spring production and designated as the Fairview Mills-Bone Spring Pool, The discovery well is the Enron Oil and Gas Company Fairview 14 Fee Well No. 1 located in Unit G of Section 14, Township 25 South, Range 34 East, NMPM. Said pool would comprise:

TOWNSHIP 25 SOUTH, RANGE 34 EAST, NMPM Section 14: NE/4

(c) CREATE a new pool in Lea County, New Mexico, classified as a gas pool for Atoka production and designated as the Salt Lake-Atoka Gas Pool. The disocvery well is the TOCO LLC Hanson State Well No. 1 located in Unit N of Section 13, Township 20 South, Range 32 East, NMPM. Said pool would comprise:

TOWNSHIP 20 SOUTH, RANGE 32 EAST, NMPM Section 13: S/2

(d) CREATE a new pool in Lea County, New Mexico, classified as an oil pool for Delaware production and designated as the South Salt Lake-Delaware Pool. The discovery well is the Strata Production Company Sam H. Snoddy Federal Well No. 1 located in Unit A of Section 26, Township 20 South, Range 32 East, NMPM. Said pool would comprise:

TOWNSHIP 20 SOUTH, RANGE 32 EAST, NMPM Section 26: NE/4

(e) CREATE a new pool in Lea County, New Mexico, classified as a gas pool for Morrow production and designated as the Salt Lake-Morrow Gas Pool. The discovery well is the TOCO LLC Hanson State Well No. 1 located in Unot N of Section 13, Township 20 South, Range 32 East, NMPM. Said pool would comprise:

TOWNSHIP 20 SOUTH, RANGE 32 EAST, NMPM Section 13: S/2

(f) CREATE a new pool in Lea County, New Mexico, classified as an oil pool for Strawn production and designated as the San Simon-Strawn Pool. The discovery well is the Mitchell Energy Corporation San Simon 5 State Well No. 2 located in Unit G of Section 5, Township 22 South, Range 35 East, NMPM. Said pool would comprise:

TOWNSHIP 22 SOUTH, RANGE 35 EAST, NMPM Section 5: NE/4

(g) CREATE a new pool in Lea County, New Mexico, classified as an oil pool for San Andres production and designated as the Warren-San Andres Pool. The discovery well is the Conoco Inc. Warren Unit Well No. 108 located in Unit J of Section 28, Township 20 South, Range 38 East, NMPM. Said pool would comprise:

TOWNSHIP 20 SOUTH, RANGE 38 EAST, NMPM Section 28: SE/4

- (h) CONTRACT the vertical limits of the Querecho Plains-Pennsylvanian Pool in Lea County, New Mexico, to include only the Strawn formation and redesignate said pool as the Querecho Plains-Strawn Pool.
- (i) EXTEND the Antelope Ridge-Cherry Canyon Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 23 SOUTH, RANGE 34 EAST, NMPM Section 10: NE/4

(j) EXTEND the East Bell Lake-Delaware Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 23 SOUTH, RANGE 34 EAST, NMPM Section 33: NE/4 Section 34: NW/4

(k) EXTEND the DK-Drinkard Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 20 SOUTH, RANGE 39 EAST, NMPM Section 29: W/2 (1) EXTEND the East EK-Queen Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 34 EAST, NMPM Section 15: SW/4 Section 22: N/2 NW/4

(m) EXTEND the Southwest Jabalina-Atoka Gas Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 26 SOUTH, RANGE 35 EAST, NMPM Section 19: SW/4 Section 30: W/2

(n) EXTEND the East Livingston Ridge-Delaware Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 22 SOUTH, RANGE 32 EAST, NMPM Section 3: SW/4 Section 4: SE/4

(o) EXTEND the North Lusk-Morrow Gas Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 32 EAST, NMPM Section 22: W/2

(p) EXTEND the Mesa Verde-Bone Spring Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 24 SOUTH, RANGE 32 EAST, NMPM Section 6: W/2

(q) EXTEND the Monument-Tubb Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 20 SOUTH, RANGE 37 EAST, NMPM Section 3: NE/4

TOWNSHIP 20 SOUTH, RANGE 38 EAST, NMPM Section 7: SW/4

(r) EXTEND the Pearsall-Queen Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 17 SOUTH, RANGE 32 EAST, NMPM Section 28: SW/4

(s) EXTEND the Pitchfork Ranch-Atoka Gas Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 25 SOUTH, RANGE 34 EAST, NMPM Section 3: SE/4

(t) EXTEND the Red Hills-Bone Spring Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 25 SOUTH, RANGE 33 EAST, NMPM Section 1: E/2

TOWNSHIP 25 SOUTH, RANGE 34 EAST, NMPM Section 8: SW/4 Section 17: N/2

(u) EXTEND the Red Tank-Bone Spring Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 22 SOUTH, RANGE 32 EAST, NMPM Section 24: SW/4 (v) EXTEND the West Red Tank-Delaware Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 22 SOUTH, RANGE 32 EAST, NMPM Section 14: NE/4

(w) EXTEND the South Sand Dunes-Bone Spring Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 23 SOUTH, RANGE 32 EAST, NMPM Section 31: NW/4

(x) EXTEND the North Teague Drinkard-Abo Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 23 SOUTH, RANGE 37 EAST, NMPM Section 4: SW/4 Section 5: SE/4 Section 9: S/2 NW/4

(y) EXTEND the North Teague Lower Paddock-Blinebry Associated Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 23 SOUTH, RANGE 37 EAST, NMPM Section 4: SW/4

(z) EXTEND the North Teague-Tubb Associated Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 23 SOUTH, RANGE 37 EAST, NMPM Section 5: SE/4 Section 8: NE/4 Section 9: NE/4 and SW/4

(aa) EXTEND the Northwest Townsend-Abo Pool in Lea County, New Mexico, to include therein:

TOWNSHIP 16 SOUTH, RANGE 35 EAST, NMPM Section 4: S/2 and Lots 11, 12, 13, and 14

- <u>CASE 11250</u>: In the matter of the hearing called by the Oil Conservation Division upon its own motion for an order creating and extending certain pools in Chaves and Eddy Counties, New Mexico.
  - (a) CREATE a new pool in Chaves County, New Mexico, classified as an oil pool for Devonian production and designated as the Northwest Chisum Siluro-Devonian Pool. The discovery well is the Hanagan Petroleum Corporation Gray Wolf Well No. 1 located in Unit J of Section 33, Township 10 South, Range 27 East, NMPM. Said pool would comprise:

TOWNSHIP 10 SOUTH, RANGE 27 EAST, NMPM Section 33: SE/4

(b) CREATE a new pool in Eddy County, New Mexico, classified as an oil pool for Abo production and designated as the North Empire-Abo Pool. The discovery well is the Mack Energy Corporation Big George State Well No. 2 located in Unit J of Section 12, Township 17 South, Range 28 East, NMPM. Said pool would comprise:

TOWNSHIP 17 SOUTH, RANGE 28 EAST, NMPM Section 12: SE/4

(c) CREATE a new pool in Eddy County, New Mexico, classified as a gas pool for Morrow production and designated as the West McKittrick Hills-Morrow Gas Pool. The discovery well is the Yates Petroleum Corporation Anemone "ANE" Federal Well No. 1 located in Unit K of Section 9, Township 22 South, Range 24 East, NMPM. Said pool would comprise:

TOWNSHIP 22 SOUTH, RANGE 24 EAST, NMPM Section 9: S/2 (d) EXTEND the Brushy Draw-Delaware Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 26 SOUTH, RANGE 29 EAST, NMPM Section 10: SW/4

(e) EXTEND the South Burton-Yates Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 20 SOUTH, RANGE 28 EAST, NMPM Section 20: SE/4

(f) EXTEND the East Burton Flat-Strawn Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 20 SOUTH, RANGE 29 EAST, NMPM Section 7: W/2

(g) EXTEND the Cedar Canyon-Bone Spring Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 24 SOUTH, RANGE 29 EAST, NMPM Section 3: NE/4

(h) EXTEND the North Cedar Lake-Strawn Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 17 SOUTH, RANGE 30 EAST, NMPM Section 25: S/2

(i) EXTEND the North Dagger Draw-Upper Pennsylvanian Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 19 SOUTH, RANGE 25 EAST, NMPM Section 32: NW/4

(j) EXTEND the Foster Draw-Delaware Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 21 SOUTH, RANGE 27 EAST, NMPM Section 5: SW/4 Section 6: SE/4

(k) EXTEND the Happy Valley-Delaware Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 22 SOUTH, RANGE 26 EAST, NMPM Section 33: SW/4

(1) EXTEND the East Herradura Bend-Delaware Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 23 SOUTH, RANGE 28 EAST, NMPM Section 1: SE/4

(m) EXTEND the Ingle Wells-Delaware Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 23 SOUTH, RANGE 31 EAST, NMPM Section 34: SW/4

(n) EXTEND the Northeast Livingston Ridge-Atoka Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 22 SOUTH, RANGE 30 EAST, NMPM Section 12: SE/4

TOWNSHIP 22 SOUTH, RANGE 31 EAST, NMPM Section 7: S/2 (o) EXTEND the Los Medanos-Atoka Gas Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 22 SOUTH, RANGE 30 EAST, NMPM Section 24: S/2

(p) EXTEND the Lost Tank-Delaware Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 22 SOUTH, RANGE 31 EAST, NMPM Section 2: SW/4

(q) EXTEND the Nash Draw-Brushy Canyon Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 23 SOUTH, RANGE 29 EAST, NMPM Section 24: NE/4

(r) EXTEND the Northwest Poker Lake-Delaware Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 24 SOUTH, RANGE 30 EAST, NMPM Section 12: SE/4

(s) EXTEND the Southwest Poker Lake-Delaware Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 24 SOUTH, RANGE 30 EAST, NMPM Section 25: SW/4 Section 36: NW/4

(t) EXTEND the West Sand Dunes-Delaware Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 24 SOUTH, RANGE 31 EAST, NMPM Section 3: SW/4 Section 4: SE/4

(u) EXTEND the Santo Nino-Bone Spring Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 18 SOUTH, RANGE 30 EAST, NMPM Section 29: NW/4

(v) EXTEND the Siegrest Draw-Abo Pool in Eddy County, New Mexico, to include therein:

TOWNSHIP 19 SOUTH, RANGE 24 EAST, NMPM Section 31: SE/4 Section 32: SW/4

- <u>CASE 11251</u>: In the matter of the hearing called by the Oil Conservation Division upon its own motion for an order creating and extending certain pools in Rio Arriba and San Juan Counties, New Mexico.
  - (a) CREATE a new pool in San Juan County, New Mexico, classified as an oil pool for Gallup production and designated as the Grassy-Gallup Oil Pool. The discovery well is the Redwolf Production Inc. Kelly Well No. 1 located in Unit P of Section 25, Township 30 North, Range 15 West, NMPM. Said pool would comprise:

TOWNSHIP 30 NORTH, RANGE 15 WEST, NMPM Section 25: SE/4 SE/4

(b) CREATE a new pool in San Juan County, New Mexico, classified as an oil pool for Gallup production and designated as the Greek-Gallup Oil Pool. The discovery well is the Dugan Production Corporation Monte Carlo Well No. 1 located in Unit M of Section 16, Township 30 North, Range 15 West, NMPM. Said pool would comprise:

TOWNSHIP 30 NORTH, RANGE 15 WEST, NMPM Section 16: SW/4 SW/4 (c) CREATE a new pool in Rio Arriba County, New Mexico, classified as a gas pool for Pictured Cliffs production and designated as the La Jara-Pictured Cliffs Pool. The discovery well is the Meridian Oil Inc. San Juan 30-6 Well No. 92A located in Unit I of Section 33, Township 30 North, Range 7 West, NMPM. Said pool would comprise:

TOWNSHIP 30 NORTH, RANGE 7 WEST, NMPM Section 33: SE/4

(d) CREATE a new pool in Rio Arriba County, New Mexico, classified as a gas pool for Pictured Cliffs production and designated as the Navajo City-Pictured Cliffs Pool. The discovery well is the Meridian Oil Inc. San Juan 30-6 Well No. 66 located in Unit K of Section 14, Township 30 North, Range 7 West, NMPM. Said pool would comprise:

TOWNSHIP 30 NORTH, RANGE 7 WEST, NMPM Section 14: SW/4

(e) EXTEND the Angels Peak-Gallup Associated Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 27 NORTH, RANGE 10 WEST, NMPM Section 29: NE/4

(f) EXTEND the Bisti-Chacra Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 22 NORTH, RANGE 8 WEST, NMPM Section 18: W/2 Section 19: N/2 Section 20: NW/4

(g) EXTEND the Bisti-Lower Gallup Oil Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 24 NORTH, RANGE 9 WEST, NMPM Section 33: NW/4

(h) EXTEND the Blanco-Pictured Cliffs Pool in Rio Arriba and San Juan Counties, New Mexico, to include therein:

TOWNSHIP 29 NORTH, RANGE 7 WEST, NMPM Section 5: W/2 Section 6: E/2

TOWNSHIP 30 NORTH, RANGE 7 WEST, NMPM Section 31: E/2 Section 32: W/2

(i) EXTEND the Choza Mesa-Pictured Cliffs Pool in Rio Arriba County, New Mexico, to include therein:

TOWNSHIP 28 NORTH, RANGE 4 WEST, NMPM Section 20: NE/4 Section 21: NW/4

(j) EXTEND the Crouch Mesa-Mesaverde Pool in San Juan County, New Mexico, to include therein:

TOWNSHIP 29 NORTH, RANGE 12 WEST, NMPM Section 1: NE/4

(k) EXTEND the Gavilan-Pictured Cliffs Pool in Rio Arriba County, New Mexico, to include therein:

TOWNSHIP 27 NORTH, RANGE 3 WEST, NMPM Section 36: E/2 (1) EXTEND the Gobernador-Pictured Cliffs Pool in Rio Arriba County, New Mexico, to include therein:

TOWNSHIP 28 NORTH, RANGE 5 WEST, NMPM Section 13: W/2

(m) EXTEND the Rosa-Pictured Cliffs Pool in Rio Arriba County. New Mexico, to include therein:

TOWNSHIP 31 NORTH, RANGE 6 WEST, NMPM Section 8: S/2 Section 16: All Section 17: NW/4 and E/2 Section 21: SE/4 Section 22: NE/4

(n) EXTEND the Tapacito-Pictured Cliffs Pool in Rio Arriba County, New Mexico, to include therein:

TOWNSHIP 27 NORTH, RANGE 3 WEST, NMPM Section 19: W/2 TOWNSHIP 27 NORTH, RANGE 4 WEST, NMPM Section 5: NW/4 Section 6: N/2 and SW/4 Section 7: S.2 and NW/4

Section 18: W/2

TOWNSHIP 27 NORTH, RANGE 5 WEST, NMPM

Sections 1 and 2: All Section 10: SE/4 Section 11: All Section 12: N/2 and SE/4 Section 13: E/2 Section 14: All Section 15: NE/4

TOWNSHIP 28 NORTH, RANGE 5 WEST, NMPM

Section 24: SW/4 Section 25: All Section 26: S/2 Section 27: S/2 Section 28: S/2 Section 31: NE/4 Section 32: N/2 Sections 33 through 36: All

# RECEIVED

# APR 3 1995

STATE OF SHEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:

CASE NO. 11247

### APPLICATION OF RICHARDSON OPERATING COMPANY FOR COMPULSORY POOLING, DOWNHOLE COMMINGLING AND AN UNORTHODOX GAS WELL LOCATION, SAN JUAN COUNTY, NEW MEXICO.

CASE NO. 11243 APPLICATION OF AMOCO PRODUCTION COMPANY FOR COMPULSORY POOLING, SAN JUAN COUNTY, NEW MEXICO

# CONSOLIDATED PRE-HEARING STATEMENT

This pre-hearing statement is submitted by RICHARDSON OPERATING CO., as required by the Oil Conservation Division.

#### **APPEARANCE OF PARTIES**

#### APPLICANT (Case 11247)

#### ATTORNEY

Richardson Operating Co. 1700 Lincoln, Suite 1700 Denver, Colorado 80203 (303) 830-8000 attn: Cathy Colby W. Thomas Kellahin KELLAHIN AND KELLAHIN P.O. Box 2265 Santa Fe, New Mexico 87504 (505) 982-4285 NMOCD Cases 11243 & 11247 Richardson Operating Company Page 2.

APPLICANT (Case 11243)

#### ATTORNEY

Amoco Production Company

William F. Carr, Esq. P. O. Box 2208 Santa Fe, New Mexico 87501 (505) 988-4421

#### STATEMENT OF RICHARDSON OPERATING COMPANY

Richardson has a working interest ownership in the oil and gas minerals underlying the SW/4 and the W/2 of Section 12, T29N, R13W, NMPM, San Juan County, New Mexico.

In order to minimize surface disturbance within the SW/4 of said Section 12, Richardson seeks approval to locate its ROPCO Federal 12 Well No. 3 at a point within 200 feet radius of the Amoco Burnham Gas Com Well No. 1, which is an existing Dakota producing well located 870 feet FSL and 1180 feet FWL of said Section 12.

Richardson has proposed to the other working interest owners that this well be drilled and completed as a "downhole commingled completion" for potential production from the Basin Fruitland Coal Gas Pool with any Pictured Cliffs production to be dedicated respectively to a 320-acre coal-gas spacing and proration unit consisting of the W/2 of Section 12 and to a 160-acre gas spacing and proration unit consisting of the SW/4 of said Section for production from either the Fulcher Kutz-Pictured Cliffs Gas Pool or the West Kutz-Pictured Cliffs Gas Pool.

Despite its good faith efforts, Richardson has been unable to obtain a written voluntary agreement from one of the working interest parties, Amoco Production Company. Therefore, Richardson needs an order of the Division pooling the identified and described mineral interests of Amoco Production Company in order to protect correlative rights and prevent waste. NMOCD CASES 11243 & 11247 Richardson Operating Company Page 3

## PROPOSED EVIDENCE

## APPLICANT:

WITNESSES	EST. TIME EXHIBITS		
Cathy Colby (landman)	20 min.	@ 8 exhibits	
David B. Richardson (geologist)	20 Min.	@ 3 exhibits	
Dana Delventhal (petroleum engineer)	30 Min.	@ 6 exhibits	
Rod Markham	30 Min.	@ 6 exhibits	

# **PROCEDURAL MATTERS**

None anticipated at this time.

KELLAHIN AND KELLAHIN

-,

By:

W. Thomas Kellahin P.O. Box 2265 / Santa Fe, New Mexico 87504 (505) 982-4285

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# BEFORE THE

# NEW MEXICO DEPARTMENT OF ENERGY, MINERALS AND NATURAL RESOURCES

# OIL CONSERVATION DIVISION

IN THE MATTER OF THE APPLICATION OF RICHARDSON OPERATING CO., FOR COMPULSORY POOLING, DOWNHOLE COMMINGLING AND AN UNORTHODOX GAS WELL LOCATION, SAN JUAN COUNTY, NEW MEXICO. CASE NO. 11247

## ENTRY OF APPEARANCE

COMES NOW CAMPBELL, CARR & BERGE, P.A., and hereby enters its

appearance in the above referenced cases on behalf of Amoco Production Company.

Respectfully submitted,

CAMPBELL, CARR & BERGE, P.A.

By: '

WILLIAM F. CARR Post Office Box 2208 Santa Fe, New Mexico 87504 Telephone: (505) 988-4421

ATTORNEYS FOR AMOCO PRODUCTION COMPANY

# **CERTIFICATE OF MAILING**

I hereby certify that on this <u>day</u> of March, 1995, I have caused to be mailed a copy of our Entry of Appearance in the above-captioned cases to the following counsel of record:

W. Thomas Kellahin, Esq. Kellahin & Kellahin Post Office Box 2265 Santa Fe, New Mexico 87504

Sur William F

ENTRY OF APPEARANCE, Page 2

#### KELLAHIN AND KELLAHIN

ATTORNEYS AT LAW EL PATIO BUILDING II7 NORTH GUADALUPE POST OFFICE BOX 2265 SANTA FE, NEW MEXICO 87504-2265

Telephone (505) 982-4285 Telefax (505) 982-2047

W. THOMAS KELLAHIN\*

\*NEW MEXICO BOARD OF LEGAL SPECIALIZATION RECOGNIZED SPECIALIST IN THE AREA OF NATURAL RESOURCES-OIL AND GAS LAW

JASON KELLAHIN (RETIRED 1991)

March 14, 1995

#### HAND DELIVERED

11247

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MAR 1 4 1995

Oil Conservation Division

Mr. Michael E. Stogner Chief Hearing Examiner Oil Conservation Division 2040 South Pacheco Santa Fe, New Mexico 87502

1

Re: ROPCO Federal 12-3 (A) PC (B) FC Well
 W/2 & SW/4 Section 12, T29N, R13W, NMPM
 Application of Richardson Operating Company for
 Compulsory Pooling, Downhole Commingling and
 an Unorthodox Gas Well Location, San Juan County, New Mexico

Dear Mr. Stogner:

On behalf of Richardson Operating Company, please find enclosed our application for compulsory pooling, downhole commingling and a potential unorthodox gas well location which we request be set for hearing on the Examiner's docket now scheduled for April 6, 1995. Also enclosed is our proposed notice of publication for this case.

By copy of this letter, including the application, to all affected parties, we are notifying them by certified mail-return receipt requested, that they have the right to appear at the hearing, to make a statement to the Division, to present evidence and cross-examine witnesses either in support of or in opposition to the application. Oil Conservation Division March 14, 1995 Page 2.

Pursuant to the Division's Memorandum 2-90, all interested parties are hereby informed that if they appear in the case, then they are requested to file a Pre-Hearing Statement with the Division not later than 4:00 pm on Friday, March 31, 1995, with a copy delivered to the undersigned.

Very truly yours W. Thomas Kellahin

Enclosure:

cc: Richardson Operating Company <u>BY CERTIFIED MAIL-RETURN RECEIPT REQUESTED</u> to: all parties listed in application

# 11247

#### PROPOSED ADVERTISEMENT FOR NMOCD DOCKET

: Application of Richardson Operating Company for CASE compulsory pooling, downhole commingling and an unorthodox gas well location, San Juan County, New Mexico. Applicant seeks an order pooling all mineral interests in the Pictured Cliffs formation underlying the SW/4 and all mineral interests in the Basin Fruitland Coal Gas Pool underlying the W/2 of Section 12, T29N, R13W, NMPM, San Juan County, New Mexico, forming standard 160-acre and 320-acre spacing and proration units, respectively. Said units are to be dedicated to Richardson Operating Company's ROPCO Federal 12-3 (A) PC, (B) FC Well which is to be located at a potential unorthodox gas well location within 200 feet of a point 870 feet from the South line and 1180 feet from the West line of said Section 12 for downhole commingled production from the Fulcher Kutz-Pictured Cliffs Gas Pool or the West Kutz-Pictured Cliffs Gas Pool and the Basin-Fruitland Coal Gas Pool. Also to be considered will be the costs of participation in said well, including but not limited to the costs of drilling, completing and equipping, with the inclusion of a risk factor penalty and the allocation of those costs and income therefor as well as actual operating costs and charges for supervision, and the designation of applicant as the operator of the well.

Said well is located approximately 1/2 mile southeast of Farmington, New Mexico.

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**Oil Conservation Division** 

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MAR 1 4 1995

Oil Conservation Division

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

IN THE MATTER OF THE APPLICATION OF RICHARDSON OPERATING COMPANY FOR COMPULSORY POOLING, DOWNHOLE COMMINGLING AND AN UNORTHODOX GAS WELL LOCATION, SAN JUAN COUNTY, NEW MEXICO.

CASE NO. //247

### <u>APPLICATION</u>

Comes now RICHARDSON OPERATING COMPANY, by its attorneys, Kellahin & Kellahin, and in accordance with Section 70-2-17(c) (1978) applies to the New Mexico Oil Conservation Division for an order pooling all mineral interests in the Pictured Cliffs formation underlying the SW/4 and all mineral interests in the Basin Fruitland Coal Gas Pool underlying the W/2 of Section 12, T29N, R13W, NMPM, San Juan County, New Mexico, forming standard 160-acre and 320-acre spacing and proration units, respectively. Said units are to be dedicated to Richardson Operating Company's ROPCO Federal 12-3 (A) PC (B) FC Well which is to be located at a potential unorthodox gas well location within 200 feet of a point 870 feet from the South line and 1180 feet from the West line of said Section 12 for downhole commingled production from the Fulcher Kutz-Pictured Cliffs Gas Pool or the West Kutz-Pictured Cliffs Gas Pool and the Basin-Fruitland Coal Gas Pool. Also to be considered will be the costs of participation in said well, including but not limited to the costs of drilling, completing and equipping, with the inclusion of a risk factor penalty and the allocation of those costs and income therefor as well as actual operating costs and charges for supervision, and the designation of applicant as the operator of the well.

NMOCD Application Richardson Operating Company Page 2

In support of its application, Richardson Operating Company ("Richardson") states:

1. Richardson has a working interest ownership in the oil and gas minerals underlying the SW/4 and the W/2 of Section 12, T29N, R13W, NMPM, San Juan County, New Mexico.

2. In order to minimize surface disturbance within the SW/4 of said Section 12, Richardson seeks approval to locate its ROPCO Federal 12-3 (A) PC (B) FC Well at a point within 200 feet radius of the Amoco Burnham Gas Com Well No. 1, which is an existing Dakota producing well located 870 feet FSL and 1180 feet FWL of said Section 12.

3. Richardson has proposed to the other working interest owners that this well be drilled and completed as a "downhole commingled completion" for potential production from the Basin Fruitland Coal Gas Pool with any Pictured Cliffs production to be dedicated respectively to a 320-acre coalgas spacing and proration unit consisting of the W/2 of Section 12 and to a 160-acre gas spacing and proration unit consisting of the SW/4 of said Section for production from either the Fulcher Kutz-Pictured Cliffs Gas Pool or the West Kutz-Pictured Cliffs Gas Pool.

4. Despite its good faith efforts, Richardson has been unable to obtain a written voluntary agreement from one of the working interest parties, Amoco Production Company.

5. Pursuant to Section 70-2-17(c) NMSA (1978) and in order to obtain its just and equitable share of production from the subject well and these spacing units, Richardson needs an order of the Division pooling the identified and described mineral interests of Amoco Production Company in order to protect correlative rights and prevent waste.

NMOCD Application Richardson Operating Company Page 3

6. In accordance with the Division's notice requirements, a copy of this application has been sent to:

Amoco Production Company P. O. Box 800 Denver, Colorado, 80201 Attn: Ms. Julie Talbot Jenkins

7. In addition, a copy of this application is being sent to all interest owners in each spacing unit and to the appropriate offsetting operators as shown on Exhibit "A" attached.

8. Richardson requests that this matter be set for a hearing before the Division on the next available Examiner's docket now scheduled for April 6, 1995.

WHEREFORE, Richardson, as applicant, requests that this application be set for hearing on April 6, 1995 before the Division's duly appointed examiner, and that after notice and hearing as required by law, the Division enter its order pooling the mineral interest described in this spacing unit for the drilling, completion and operations of the subject well for downhole commingled production at a potential unorthodox gas well location upon terms and conditions which include:

(1) Richardson Operating Company be named operator;

(2) provisions for each working interest owner to participate in any production by reimbursing the applicant for the value of the costs of drilling, completing, equipping and operating said well;

(3) In the event a working interest owner fails to elect to participate, then provisions be made to recover out of production, reimbursement to the applicant for the costs of drilling, completing, equipping and operating the well, including a risk factor penalty of 200%;

NMOCD Application Richardson Operating Company Page 4

> (4) Provision for overhead rates of \$3500 per month drilling and \$450 per month operating and a provision providing for an adjustment method of the overhead rates as provided by COPAS; and

(5) For such other and further relief as may be proper.

**RESPECTFULLY SUBMITTED:** 

W. THOMAS KELLAHIN KELLAHIN & KELLAHIN P. O. Box 2265 Santa Fe, New Mexico 87501 (505) 982-4285

#### Royalty Owners and Overriding Royalty Owners:

Case 11247 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, CQ 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

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

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

A. L. Duff, Jr. (deceased) no address

#### 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

#### Offset Pictured Cliffs/Fruitland Coal Operators:

BHP Petroleum (Americas) Inc. 1360 Post Oak Boulevard, Suite 500 Houston, TX 77056