

Application for Compulsory Pooling

Burnham Gas Com 'A' #1 Well, NW/4 Section 12, T29N-R13W Burnham Gas Com 'B' #1 Well, SW/4 Section 12, T29N-R13W Basin Fruitland Coal Pool Undesignated - West Kutz Pictured Cliffs Pool San Juan County, New Mexico





March 9, 1995

Southern Rockies Business Unit

Mr. William J. LeMay, Director New Mexico Oil Conservation Division 2040 S. Pacheco Street P.O. Box 6429 Santa Fe, NM 87505

Application For Compulsory Pooling W/2 Section 12-T29N-R13W Basin Fruitland Coal Pool NW/4 Section 12-T29N-R13W and SW/4 Section 12-T29N-R13W Undesignated-West Kutz Pictured Cliffs Pool San Juan County, New Mexico

Amoco Production Company hereby makes application for compulsory pooling all mineral interests from the surface to the base of the Pictured Cliffs formation underlying the W/2 of Section 12, T29N-R13W in the following manner: the W/2 thereby forming a standard 320 acre gas spacing and proration unit for the Basin Fruitland Coal Pool to be dedicated to the Burnham Gas Com /B/ #1 Well to be drilled at a standard location in the SW/4; the SW/4 thereby forming a standard 160 acre gas spacing and proration unit for the Burnham Gas Com /B/ #1 Well to be dedicated to the Burnham Gas Com /B/ #1 Well to be dedicated to the Burnham Gas Com /B/ #1 Well to be dedicated to the Burnham Gas Com /B/ #1 Well to be dedicated to the Burnham Gas Com /B/ #1 Well to be dedicated to the Burnham Gas Com /B/ #1 Well to be dedicated to the Burnham Gas Com /B/ #1 Well to be dedicated to the Burnham Gas Com /B/ #1 Well to be dedicated to the Burnham Gas Com /B/ #1 Well to be dedicated to the Burnham Gas Com /B/ #1 Well to be dedicated to the Burnham Gas Com /B/ #1 Well to be dedicated to the Burnham Gas Com /B/ #1 Well to be dedicated to the Burnham Gas Com /B/ #1 Well to be dedicated to the Burnham Gas Com /A/ #1 Well to be dedicated to the Burnham Gas Com /A/ #1 Well to be dedicated to the Burnham Gas Com /A/ #1 Well to be dedicated to the Burnham Gas Com /A/ #1 Well to be dedicated to the Burnham Gas Com /A/ #1 Well to be dedicated to the Burnham Gas Com /A/ #1 Well to be dedicated to the Burnham Gas Com /A/ #1 Well to be dedicated to the Burnham Gas Com /A/ #1 Well to be dedicated to the Burnham Gas Com /A/ #1 Well to be dedicated to the Burnham Gas Com /A/ #1 Well to be dedicated to the Burnham Gas Com /A/ #1 Well to be dedicated to the Burnham Gas Com /A/ #1 Well to be dedicated to the Burnham Gas Com /A/ #1 Well to be dedicated to the Burnham Gas Com /A/ #1 Well to be dedicated to the Burnham Gas Com /A/ #1 Well to be dedicated to the Burnham Gas Com /A/ #1 Well to be dedicated to the Burnham Gas Com /A/ #1 Well to be dedicated to

In support of this application, Amoco states that it is the owner of majority of the working interest in the Basin Fruitland Coal and Undesignated-West Kutz Pictured Cliffs Pools in the W/2 of Section 12, T29N-R13W and should be named operator of the above referenced wells. The hearing should also consider cost of drilling and completing said wells and allocation of such costs as well as actual operating costs and charges for supervision and a charge for risk involved in drilling said wells.

A copy of this application will be submitted to the owners of uncommitted leasehold interests by certified mail. Amoco respectfully requests that this application be set for hearing on the April 6, 1995 docket.

Jawhin W. Hawkins

cc: Julie Jenkins

ADDRESSEE LIST Burnham Gas Com /A/ #1

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

The Estate of John J. Redfern, Jr. c/o John J. Redfern III, Independent Executor P. O. Box 50896 Midland, TX 79710-0896

- Kerr-McGee Corporation
 P. O. Box 25861
 Oklahoma City, OK 73125-0861
- Roderick Allen Markham
 1500 Broadway, Suite 1212
 Lubbock, TX 79401-3192
- Manon Markham McMullen
 2200 Berkeley
 Wichita Falls, TX 76308
- Richardson Production Company 1700 Lincoln, Suite 1700 Denver, CO 80203
- Estate of John J. Christmann, deceased c/o Christmann Mineral Company 1500 Broadway, Suite 800 Lubbock, TX 79401-3104

ADDRESSEE LIST Burnham Gas Com /B/ #1

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

The Estate of John J. Redfern, Jr. c/o John J. Redfern III, Independent Executor P. O. Box 50896 Midland, TX 79710-0896

- Kerr-McGee Corporation
 P. O. Box 25861
 Oklahoma City, OK 73125-0861
- Jack Markham
 1500 Broadway, Suite 1212
 Lubbock, TX 79401-3192
- Richardson Production Company 1700 Lincoln, Suite 1700 Denver, CO 80203
- Estate of John J. Christmann, deceased c/o Christmann Mineral Company 1500 Broadway, Suite 800 Lubbock, TX 79401-3104

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District 1 PO Box 1980, Hubbs, NM 88241-1980 District 11 PO Drawer DD, Artenia, NM 88211-0719 District 111 1999 Ris Brazes Rd., Astee, NM 87410 District 1V PO Box 2088, Santa Fe, NM 87504-2088

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State of New Mexico Energy, Minerals & Natural Resources Department

Form <u>C-102</u> Revised February 21, 1994 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

OIL CON	SER	VA1	ION	DIVISION
	PO	Box	2088	
Santa	Fe,	NM	8750	4-2088

	WELL LOCATION AND ACREAGE DEDICATION PLAT									
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Exhibit "A"

Attached to and made a part of that certain Operating Agreement dated January 15, 1995 between Amoco Production Company, as Operator, and Rosalind Redfern, et al, as non-Operators.

I. LANDS SUBJECT TO OPERATING AGREEMENT

Township 29 North, Range 13 West

Section 12: NW/4

IL RESTRICTIONS AS TO DEPTHS OR FORMATIONS

Limited in depth to the Pictured Cliffs formation.

III. ADDRESSES AND PERCENTAGE INTEREST OF PARTIES TO THIS AGREEMENT:

in further for

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

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

The Estate of John J. Redfern, Jr. c/o John J. Redfern III, Independent Executor P. O. Box 46 Midland, TX 79702

Flag-Redfern Oil Company P. O. Box 11050 Midland, TX 79702

Robert Allen Markham 1500 Broadway, #1212 Lubbock, TX 79401

Manon Markham McMullen 2200 Berkeley Wichita Falls, TX 76308

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

Estate of John J. Christmann, deceased c/o Christmann Mineral Company 1500 Broadway, Suite 800 Lubbock, TX 79407 1.73438%

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District I PO Box 1980, Hobbs, NM 88241-1980 District II PO Drawer DD, Artesia, NM 88211-0719 District III 1000 Rio Branso Rd., Astoc, NM 87410 District IV PO Box 2003, Santa Fe, NM 87504-2003

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State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088 Form C-102 Revised February 21, 1994 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

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1. 1.

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* Property	* Property Code BURN			' Property Name HAM G. C. B				* Well Number # 1			
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Exhibit "A"

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Attached to and made a part of that certain Operating Agreement dated February 1, 1995 between Amoco Production Company, as Operator, and Rosalind Redfern, et al, as non-Operators.

L LANDS SUBJECT TO OPERATING AGREEMENT

. . . .

Township 29 North, Range 13 West

Section 12: W/2 as to Fruitland Coal Section 12: SW/4 as to Pictured Cliffs

....

II. RESTRICTIONS AS TO DEPTHS OR FORMATIONS

Limited in depth to the Pictured Cliffs and Fruitland Coal formations.

III. ADDRESSES AND PERCENTAGE INTEREST OF PARTIES TO THIS AGREEMENT:

	Pictured Cliffs SW/4	Fruitland Coal W/2	
Amoco Production Company P. O. Box 800 Denver, CO 80201	50.000%	66.69062%	>
Rosalind Redfern P. O. Box 2127 Midland, TX 79702	6.250%	3.29648%	
The Estate of John J. Redfern, Jr. c/o John J. Redfern III, Independent Executor P. O. Box 50896 Midland, TX 79702	6.250%	5.60888%	
Kerr-McGee Corp. P. O. Box 25861 Oklahoma City, OK 73125	4.167%	2.19678%	
Jack Markham 1500 Broadway Lubbock, TX 79401	12.500%	6.25000%	
Richardson Production Company 1700 Lincoln, Suite 1700 Denver, CO 80203	8.333%	5.55249%	
Estate of John J. Christmann, deceased c/o Christmann Mineral Company 1500 Broadway, Suite 800 Lubbock, TX 79407	12.500%	8.32737%	
Manon Markham McMullen 2200 Berkeley Wichita Falls, TX 76308	0.000%	1.03869%	
Roderick Allen Markham 1500 Broadway, Suite 1212 Lubbock, TX 79401	0.000%	<u>1.03869%</u>	
	100.00000%	100.00000%	

Burnham Gas Com /A/ #1 NW/4 of Section 12-T29N-R13W San Juan County, New Mexico Timeline

February 14, 1995:

Amoco Production Company mailed via Certified Mail - Return Receipt Requested proposed AFE and Operating Agreement to all record working interest owners in the Pictured Cliffs formation in the NW/4 of Section 12-T29N-R13W, San Juan County, New Mexico.

February 16, 1995:

Date AFE and Operating Agreement received by Richardson Operating Company, per US Postal Service Form 3811, Domestic Return Receipt.

February 23, 1995:

Cathleen Colby, Land Manager of Richardson called Greg Grotke, engineer, of Amoco. Cathleen expressed Richardson's opinion that Amoco's costs were too high, and asked if Amoco would be willing to trade some of our offset acreage for their acreage in this location.

March 6, 1995:

Amoco received, via FAX, a letter from Richardson proposing to drill a Pictured Cliffs well in the NW/4 of Section 12-T29N-R13W, San Juan County, New Mexico, calling it the ROPCO Fee 12-4 PC Well. This proposal included an AFE, but no Operating Agreement.

Greg Grotke called Cathleen Colby of Richardson to say that the AFE was unexpected. Cathleen told Greg that Richardson would prefer to operate a well in this spacing unit.

March 7, 1995:

Julie Jenkins, Land Negotiator with Amoco called Cathleen Colby with Richardson to request a copy of the Operating Agreement that Richardson would propose to use to govern the operations of this well.

Julie Jenkins of Amoco sent to Cathleen Colby of Richardson a letter, via FAX, stating that Amoco has no interest in any type of sale or exchange of interests.

March 9, 1995:

J. W. Hawkins, proration engineer with Amoco mailed a letter to Mr. William J. LeMay, Director of the NMOCD applying for compulsory pooling of the NW/4 of Section 12-T29N-R13W, San Juan County, New Mexico for the Undesignated-West Kutz Pictured Cliffs Pool. Copies of this letter were sent to all working interest owners in the proposed unit.

March 14, 1995:

Mr. W. Thomas Kellahin hand delivered a letter addressed to Mr. Michael E. Stogner of the NMOCD, applying on behalf of Richardson Operating Company for compulsory pooling, downhole commingling and unorthodox gas well location for the ROPCO Fee 12-4 well. We are unsure of the date we received a copy of this notice.

March 15, 1995:

Date a copy of Amoco's March 9, 1995 letter was received by Richardson Operating Company, per United States Postal Service Form 3811, Domestic Return Receipt.

March 24, 1995:

Amoco Production Company Received signed AFE and Operating Agreement from Manon Markham McMullen, a working interest owner in the well, approving Amoco's proposal.

Redention led

February 14, 1995

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Re: Pictured Cliffs Well Proposal Burnham Gas Com /A/ #1 NW/4 of Section 12-T29N-R13W San Juan County, New Mexico

WORKING INTEREST OWNERS - ADDRESSEE LIST ATTACHED

Gentlemen:

Amoco Production Company is proposing to drill a Pictured Cliffs well on the captioned acreage. Enclosed for your review is an AFE outlining the estimated cost of the project. Also enclosed is an Operating Agreement which we are proposing to use to govern the operations of this well. Exhibit "A" of the Operating Agreement sets forth what our records indicate your interest to be in the Pictured Cliffs formation.

Please indicate your approval to join in this project by signing both the AFE and Operating Agrement and returning both to my attention as soon as possible. Because we must drill this well as a "package" with 5 other PC wells in order for it to be economic, we will proceed to initiate force-pooling measures to ensure the timely consolidation of all interests. If you have any questions, please feel free to contact me at (303) 830-4844.

Yours very truly,

Julie Talbot Jenkins Senior Land Negotiator

JAT/ms encl.

100 te

ADDRESSEE LIST Burnham Gas Com /A/ #1

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

The Estate of John J. Redfern, Jr. c/o John J. Redfern III, Independent Executor P. O. Box 46 Midland, TX 79702

Flag-Redfern Oil Company P. O. Box 11050 Midland, TX 79702

Robert Allen Markham 1500 Broadway, #1212 Lubbock, TX 79401

Manon Markham McMullen 2200 Berkeley Wichita Falls, TX 76308

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

Estate of John J. Christmann, deceased c/o Christmann Mineral Company 1500 Broadway, Suite 800 Lubbock, TX 79407

Burnham Gas Com /B/ #1 SW/4 of Section 12-T29N-R13W San Juan County, New Mexico Timeline

February 14, 1995:

Amoco Production Company mailed via Certified Mail - Return Receipt Requested proposed AFE and Operating Agreement to all record working interest owners in the Pictured Cliffs formation in the SW/4 of Section 12-T29N-R13W, San Juan County, New Mexico.

February 16, 1995:

Date AFE and Operating Agreement received by Richardson Operating Company, per US Postal Service Form 3811, Domestic Return Receipt.

February 23, 1995:

Cathleen Colby, Land Manager of Richardson called Greg Grotke, engineer, of Amoco. Cathleen expressed Richardson's opinion that Amoco's costs were too high, and asked if Amoco would be willing to trade some of our offset acreage for their acreage in this location.

March 6, 1995:

Amoco received, via FAX, a letter from Richardson proposing to drill a Pictured Cliffs/Fruitland Coal well in the SW/4 of Section 12, calling it the ROPCO Fee 12-3 (A) PC, (B) FC Well. This proposal included an AFE, but no Operating Agreement.

Greg Grotke called Cathleen Colby of Richardson to say that the AFE was unexpected. Cathleen told Greg that Richardson would prefer to operate a well in this spacing unit.

March 7, 1995:

Julie Jenkins, Land Negotiator with Amoco called Cathleen Colby with Richardson to request a copy of the Operating Agreement that Richardson would propose to use to govern the operations of this well.

Julie Jenkins of Amoco sent to Cathleen Colby of Richardson a letter, via FAX, stating that Amoco has no interest in any type of sale or exchange of interests.

March 9, 1995:

J. W. Hawkins, proration engineer with Amoco mailed a letter to Mr. William J. LeMay of the NMOCD applying for compulsory pooling of the SW/4 of Section 12-T29N-R13W, San Juan County, New Mexico for the Undesignated-West Kutz Pictured Cliffs Pool and for the W/2 of Section 12-T29N-R13W, San Juan County, New Mexico for the Basin Fruitland Coal Pool. Copies of this letter were sent to all working interest owners in the proposed units.

March 13, 1995:

Amoco mailed via Certified Mail - Return Receipt Requested a proposed AFE and Operating Agreement to all record interest owners in the Fruitland Coal formation and the Pictured Cliffs formation. This letter amended the original proposal to drill a Fruitland Coal/Pictured Cliffs downhole commingled well, rather that just a Pictured Cliffs as outlined in our original proposal.

March 14, 1995:

Mr. W. Thomas Kellahin hand delivered a letter addressed to Mr. Michael E. Stogner of the NMOCD, applying on behalf of Richardson Operating Company for compulsory pooling, downhole commingling and unorthodox gas well location for the ROPCO Fee 12-3 (A) PC (B) FC well located in the SW/4 of Section 12-T29N-R13W, San Juan County, New Mexico. We are unsure of the date we received this notice from Mr. Kellahin.

March 15, 1995:

Date a copy of Amoco's March 9, 1995 letter was received by Richardson Operating Company, per United States Postal Service Form 3811, Domestic Return Receipt.

March 16, 1995:

Date new PC/FT commingle AFE and Operating Agreement sent under cover letter dated March 13, 1995 was received by Richardson Operating Company, per United States Postal Service Form 3811, Domestic Return Receipt.

February 14, 1995

<u>خ</u> CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Re: Pictured Cliffs Well Proposal Burnham Gas Com /B/ #1 SW/4 of Section 12-T29N-R13W San Juan County, New Mexico

WORKING INTEREST OWNERS - ADDRESSEE LIST ATTACHED

Gentlemen:

Amoco Production Company is proposing to drill a Pictured Cliffs well on the captioned acreage. Enclosed for your review is an AFE outlining the estimated cost of the project. Also enclosed is an Operating Agreement which we are proposing to use to govern the operations of this well. Exhibit "A" of the Operating Agreement sets forth what our records indicate your interest to be in the Pictured Cliffs formation.

Please indicate your approval to join in this project by signing both the AFE and Operating Agreement and returning both to my attention as soon as possible. Because we must drill this well as a "package" with 5 other PC wells in order for it to be economic, we will proceed to initiate force-pooling measures to ensure the timely consolidation of all interests. If you have any questions, please feel free to contact me at (303) 830-4844.

Yours very truly,

Julie Talbot Jenkins Senior Land Negotiator

JAT/ms encl.

ADDRESSEE LIST Burnham Gas Com /B/ #1

÷

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

The Estate of John J. Redfern, Jr. c/o John J. Redfern III, Independent Executor P. O. Box 46 Midland, TX 79702

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

Jack Markham 1500 Broadway Lubbock, TX 79401

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

 / Estate of John J. Christmann, deceased c/o Christmann Mineral Company 1500 Broadway, Suite 800 Lubbock, TX 79407

MY COP1



Southern Rockies Business Unit

March 13, 1995

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Re: Fruitland Coal/Pictured Cliffs Well Proposal Burnham Gas Com /B/ #1 W/2 of Section 12-T29N-R13W San Juan County, New Mexico

WORKING INTEREST OWNERS - ADDRESSEE LIST ATTACHED

Gentlemen:

Reference is made to our previous letter dated February 14, 1995 proposing to drill a Pictured Cliffs well in the SW/4 of Section 12-T29N-R13W, San Juan County, New Mexico. Amoco Production Company now wishes to propose to drill a Fruitland Coal/Pictured Cliffs downhole commingled well on the captioned acreage. The spacing unit for the Fruitland Coal well will be the W/2 of Section 12 and the spacing unit for the Pictured Cliffs formation will be the SW/4 of Section 12. Enclosed for your review are two AFE's outlining the estimated cost of the project. One AFE shows the costs that will be borne by the Fruitland Coal owners and the other shows costs that will be borne by the Pictured Cliffs owners. Also enclosed is a new Operating Agreement which we are proposing to use to govern the operations of this well. Exhibit "A" of the Operating Agreement sets forth what our records indicate your interest to be in the Fruitland Coal and Pictured Cliffs formations.

Please indicate your approval to join in this project by signing both the AFE and Operating Agreement and returning both to my attention as soon as possible. If you have any questions, please feel free to contact me at (303) 830-4844.

Yours very truly,

Julie Talbot Jenkins Senior Land Negotiator

JAT/ms encl.

ADDRESSEE LIST Burnham Gas Com /B/ #1

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

The Estate of John J. Redfern, Jr. c/o John J. Redfern III, Independent Executor P. O. Box 50896 Midland, TX 79710-0896

Kerr-McGee Corporation P. O. Box 25861 Oklahoma City, OK 73125-0861

Jack Markham 1500 Broadway, Suite 1212 Lubbock, TX 79401-3192

Manon Markham McMullen 2200 Berkeley Wichita Falls, TX 76308

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

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

Estate of John J. Christmann, deceased c/o Christmann Mineral Company 1500 Broadway, Suite 800 Lubbock, TX 79401-3104

rilling Authorization

.

JUAN County, NEW MEXICO ating Field - o Production Company		/A/, Well# 1 Property FLAC - 189552				
COT: AMOCO PRODUCTION COMPANY	Operations Center: AMOCO's Interest: 0		LPN#: 687773 Contract#: 0			
ts - Total Depth: 1581 Norison Reg. Fiel FC	đ	Target	Depth 1288			
letion: Single N						
ce Location: 1450, FeL x 1520, FWL	sec. 12 - T29N - R1	3₩				
m Hole Location: Same Summary (Development)			Gross Dry Hole	Gross Completion		
Drilling Tobardhlas		coiled tobing bare	Gross Dry Hole			
Drilling Cost:		••••••	\$36,000			
Day Work:			\$2,160	\$4,260		
			• •	\$5,000		
•				\$7,000		
			• • • • • • • •	\$7,000		
				\$43,000		
Other:	• • • • • • • • • • • • • • • • • • • •		\$13,000	\$20,400		
Total Intangible:			\$68,160	\$122,660		
Well Equipment - Tangibles						
			• •	\$8,500		
				\$4,600		
	•••••		• •	\$2,500		
Other:	• • • • • • • • • • • • • • • • • • • •		\$0	\$0		
Total Tangible:			\$10,000	\$15,600		
Contingency:			\$12,000	\$28,000		
Associated Production Facility:				\$50,000		
Direct Production Facility:	•••••		• • • • • • • • • • • • • • • • • • • •	\$0		
Total This Request:			\$90,160	\$216,260		
Previous Estimate:			\$0	\$0		
Total to Date Estimate:	••••••		\$90,160	\$216,260		
e to Non-Operator: Cost shown on t	bis	Non-Operator:				
are estimates only. Non-Operators	should					
onsider these estimates as establi		Ву:		_ Date:		
imit on the monies which will be r	a mul mad					

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

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

uling Authorization

erty - Burnham Gas Com /B/, Well# 1

AN County, NEW MEXICO

aung Field -

co Production Company_

Property FLAC - 189553

Well FLAC -Well Type - Gas

IT: ANOCO PRODUCTION COMPANY	Operations Center: SAN JUAN OC AMOCO's Interest: 0.5000000	LPN#: 687774 Contract#: 0	
ts - Total Depth: 1664			
Borizon Reg. Fi	eld Ta	rget Depth	
PC		1381	
tion: Single			
+ Location: 850' FSL x 1230' FW	L soc. 12 - T29N - R13W		
a Hole Location: Same			
(Development)		Gross Dry Hole	Gross Completion
Drilling Intangibles			
-	t:	• •	\$36,000
-	k:		\$4,260
Location	A;	\$5,000	\$5,000
Survey	¥1	\$5,000	\$7,000
) the	d:	\$7,000	\$7,000
	B 1	•••••	\$43,000
Othe	F1	\$13,000	\$20,400
Total Intangibl	61	\$68,160	\$122,660
Well Equipment - Tangibles			
Casing	g1	\$8,500	\$8,500
Tubin	- g:	\$0	\$4,600
Wellhes	- d:	\$1,500	\$2,500
Othe	E1	****	\$0
Total Tangible	6:	\$10,000	\$15,600
	¥1		\$28,000
•	Y1		\$50,000
	¥1		\$0

\$90,160	\$216,260
\$0	\$0
\$90,160	\$216,260
	\$90,160 \$0

By:__

to Non-Operator: Cost shown on this are estimates only. Non-Operators should consider these estimates as establishing mit on the monies which will be required form the proposed operation.

Technical ints: GREG E GROTER P O BOX 800 DENVER, CO, \$0201-0800 303-830-4079 303-830-4777 FAX

Non-Operator:____

_____ Date:____

Business Julie & Jenkins P O BOX SOO DENVER, CO, \$0201-0800 (303) 830-4844 (303) 830-4777 FAX

e						
Drilling Auth	noriza	tion				
Property - Burnha	m Gas C	om /B/, Well# 1				
SAN JUAN County, NEW MEXICO Property FLAC - 189553					Well FLAC -	
Operating Field -						Well Type - Gas
Amoco Production Company	IY					
Operator: AMOCO PRODUCTIO	a condyna	Operations Center: SAN JUAN OC AMOCO's Interest: 0.5000000		LPN#: 687774 Contract#: 000		
XPI#:		ALCO'S INCLUSE: 0.500000		CONTINUES: UN	1000	
comments to Partners: Thi	s Cost estim	ate is revised to include a portion	of the dr			
		lities and the PC completion in th				
	the second s	d_dual. The other portion of the d				
		ill be allocated to the Fruitland C	oal workin			
gı	nterest owne	28 .				
argets - Total Depth: 16	64					
Norizon	Reg. Fi	eld	Target Depth			
2C	-		1381			
completion: Single						
surface Location: 850' FS	L x 1230' FM	L sec. 12 - 729H - R13W				
Notton Hole Location: Sam	•					
ost Summary (Development	•		0-	oss Dry Hole	Gross Completion	
Drilling Intang			10	OPP DIA WOIA	Gross compretion	
		t:		\$18,000	\$18,000	
		k:		\$1,080	\$3,180	
	Locatio	n :		\$2,500	\$2,500	
	Surve	¥:		\$2,500	\$4,500	
		d:		\$3,500	\$3,500	÷
		0 :		\$0	\$32,000	
	Othe	::	• • • • • • • • • • • • • • • • • • • •	\$6,500	\$13,900	
Tat	al Interrible	•:		\$34,080	\$77,580	
Well Equipment - T	-			40.,		
		g:		\$4,250	\$4,250	
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	stal Wanaibl	•:		\$5,000	\$7,800	
1		••••••••••••••••••••••••••••••••••••••		35,000	\$17,000	
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		r :			\$0	
		b :		\$45,080	\$127,380	
		•		\$0 •••	\$0	
TOTAL TO I	ALS SULIDE (•• ••••••••••••••••••••••••••••••••••••	• • • • • • • • •	\$45,080	\$127,380	

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_____ Date:__

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Notice to Non-Operator: Cost shown on this form are estimates only. Non-Operators should not consider these estimates as establishing wy limit on the monies which will be required o perform the proposed operation.

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Contacts:

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

By:__

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

Drilling Authoriza	ation						
Property - Burnham Gas (
SAN JUAN County, NEW MEXICO Property FLAC - 189553							
perating Field -					Well FLAC Well Type - Ga		
Amoco Production Company							
perator: AMOCO PRODUCTION COMPANY PI#:	Operations Center: SAN JUAN OC AMDCO's Interest: 0.5000000		LPN#: 687774 Contract#: 0				
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acilities and ngled dual. T	mate includes a portion of the drilli the FT completion in the proposed PC/ The other portion of the drilling and f cated to theFictured Cliffs working in	FT commi acilitie					
argets - Total Depth: 1664							
Morizon Reg. I	ield T	arget Depth					
n		1140					
caplation: Single							
urface Location: 850' FEL x 1230' F	ML seg. 12 - T29H - R13M						
	WL seg. 12 - 329% - R13W						
ottom Nole Location: Same	WL 843. 12 - 329% - R13W	Gro	ss Dry Hole	Gross Completion			
ottom Hole Location: Same ost Summary (Development) Drilling Intangibles							
ottom Nole Location: Same ost Summary (Development) Drilling Intangibles Drilling Co	st:		\$18,000	\$18,000			
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ottom Nole Location: Same Det Summary (Development) Drilling Intangibles Drilling Co Day Wo Locati	st: zk: on:	 • • • • • • • • • • • • • • •	\$18,000 \$1,080 \$2,500	\$18,000 \$3,180 \$2,500			
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ottom Hole Location: Same Dat Summary (Development) Drilling Intangibles Drilling Co Day Wo Locati Surv M Stimulati Oth Total Intangib Well Equipment - Tangibles Casi Tubi Wellbe Oth Total Tangib Contingen Associated Production Facili	st:		\$18,000 \$1,020 \$2,500 \$3,500 \$3,500 \$0 \$6,500 \$34,020 \$4,250 \$0 \$750 \$0 \$5,000 \$5,000	\$18,000 \$3,180 \$2,500 \$4,500 \$3,500 \$3,500 \$38,000 \$13,900 \$83,580 \$4,250 \$2,300 \$1,250 \$0 \$7,800 \$17,000			
ottom Hole Location: Same ost Summary (Development) Drilling Intangibles Drilling Co Day Wo Locati Surv N Stimulati Oth Total Intangib Well Equipment - Tangibles Casi Tubi Wellbe Oth Total Tangib Contingen Associated Production Facili	st:		\$18,000 \$1,020 \$2,500 \$2,500 \$3,500 \$0 \$6,500 \$34,020 \$34,020 \$44,250 \$0 \$750 \$0 \$5,000 \$5,000	\$18,000 \$3,180 \$2,500 \$4,500 \$3,500 \$38,000 \$13,900 \$83,580 \$4,250 \$2,300 \$1,250 \$0 \$7,800 \$17,000 \$25,000 \$0			
Drilling Co Day Wo Locati Surv M Stimulati Oth Total Intangib Well Equipment - Tangibles Casis Tabis Wellbes Oth Total Tangib Contingen Associated Production Facili Direct Froduction Facili	st:		\$18,000 \$1,020 \$2,500 \$3,500 \$3,500 \$0 \$6,500 \$34,020 \$4,250 \$0 \$750 \$0 \$5,000 \$5,000	\$18,000 \$3,180 \$2,500 \$4,500 \$3,500 \$38,000 \$13,900 \$83,580 \$4,250 \$2,300 \$1,250 \$0 \$7,800 \$17,000 \$25,000			

Notice to Non-Operator: Cost shown on this form are estimates only. Non-Operators should not consider these estimates as establishing any limit on the monies which will be required to parform the proposed operation.

Contacts:

Technical GREG E GROTKE P O BOX 800 DENVER, CC, 80201-0800 303-830-4079 303-830-4777 FAX Non-Operator:__

By:_

Date:__

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

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AFE Comparison

Burnham Gas Com A #1

	Total AFE
Richardson Operating Company	\$152,117
Amoco Corporation	\$216,260
Total Difference =	\$64,143
STIMULATION	
ROPCO	\$24,000
AMOCO	\$43,000
COMPRESSOR	
ROPCO	\$ 0
AMOCO	\$30,000
CONTINGENCY	15% of the Total cont \$12,517 \$28,000
ROPCO	\$12,517
AMOCO	\$28,000
Difference of Major Items =	\$64,483

AFE Comparison

Burnham Gas Com B #1

	Total AFE
Richardson Operating Company	\$193,979
Amoco Corporation	\$260,760
Total Difference =	\$66,781
STIMULATION	
ROPCO	\$48,000
AMOCO	\$70,000
COMPRESSOR	
ROPCO	\$ 0
AMOCO	\$30,000
CONTINGENCY	
ROPCO	\$16,279
AMOCO	\$34,000
Difference of Major Items =	\$69,721

Compulsory Pooling

- Charge for Supervision
 - Drilling \$3582 / month
- Producing \$498 / month
- Charge for Risk
- Fruitland Coal 156%
- Pictured Cliffs 200%

To while a copin excellen July

III. OVERHEAD

- 1. Overhead Drilling and Producing Operations
 - i. As compensation for administrative, supervision, office services and warehousing costs, Operator shall charge drilling and producing operations on either:
 - (X) Fixed Rate Basis, Paragraph 1A, or

() Percentage Basis, Paragraph 1B

Unless otherwise agreed to by the Parties, such charge shall be in lieu of costs and expenses of all offices and salaries or wages plus applicable burdens and expenses of all personnel, except those directly chargeable under Paragraph 3A. Section 11. The cost and expense of services from outside sources in connection with matters of taxation, traffic, accounting or matters before or involving governmental agencies shall be considered as included in the overhead rates provided for in the above selected Paragraph of this Section III unless such cost and expense are agreed to by the Parties as a direct charge to the Joint Account.

- ii. The salaries, wages and Personal Expenses of Technical Employees and/or the cost of professional consultant services and contract services of technical personnel directly employed on the Joint Property:
 - () shall be covered by the overhead rates, or
 - (X) shall not be covered by the overhead rates.
- iii. The salaries, wages and Personal Expenses of Technical Employees and/or costs of professional consultant services and contract services of technical personnel either temporarily or permanently assigned to and directly employed in the operation of the Joint Property:
 - (X) shall be covered by the overhead rates, or
 - () shall not be covered by the overhead rates.

A. Overhead - Fixed Rate Basis

- (1) Operator shall charge the Joint Account at the following rates per well per month:
 - Drilling Well Rate \$ _3,582.00 (Prorated for less than a full month)

Producing Well Rate \$ 498.00

- (2) Application of Overhead Fixed Rate Basis shall be as follows:
 - (a) Drilling Well Rate
 - (1) Charges for drilling wells shall begin on the date the well is spudded and terminate on the date the drilling rig, completion rig, or other units used in completion of the well is released, whichever is later, except that no charge shall be made during suspension of drilling or completion operations for fifteen (15) or more consecutive calendar days.
 - (2) Charges for wells undergoing any type of workover or recompletion for a period of five (5) consecutive work days or more shall be made at the drilling well rate. Such charges shall be applied for the period from date workover operations, with rig or other units used in workover, commence through date of rig or other unit release, except that no charge shall be made during suspension of operations for fifteen (15) or more consecutive calendar days.
 - (b) Producing Well Rates
 - (1) An active well either produced or injected into for any portion of the month shall be considered as a onewell charge for the entire month.
 - (2) Each active completion in a multi-completed well in which production is not commingled down hole shall be considered as a one-well charge providing each completion is considered a separate well by the governing regulatory authority.
 - (3) An inactive gas well shut in because of overproduction or failure of purchaser to take the production shall be considered as a one-well charge providing the gas well is directly connected to a permanent sales outlet.
 - (4) A one-well charge shall be made for the month in which plugging and abandonment operations are completed on any well. This one-well charge shall be made whether or not the well has produced except when drilling well rate applies.
 - (5) All other inactive wells (including but not limited to inactive wells covered by unit allowable, lease allowable, transferred allowable, etc.) shall not qualify for an overhead charge.

(3) The well rates shall be adjusted as of the first day of April each year following the effective date of the agreement to which this Accounting Procedure is attached. The adjustment shall be computed by multiplying the rate currently in use by the percentage increase or decrease in the average weekly earnings of Crude Petroleum and Gas Production Workers for the last calendar year compared to the calendar year preceding as shown by the index of average weekly earnings of Crude Petroleum and Gas Production Workers as published by Crude Petroleum and Gas Production Workers as published by the United States Department of Labor, Bureau of Labor Statistics, or the equivalent Canadian index as published by Statistics Canada, as applicable. The adjusted rates shall be the rates currently in use, plus or minus the computed adjustment.

(1) Operator shall charge the Joint Account at the following rates:

B. Overhead - Percentage Basis

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1 Deepening, Recompleting or Plugging Back, or a Completion pursuant to Article VI.C.1. Option No. 2, all of such Non-2 Consenting Party's interest in the production obtained from the operation in which the Non-Consenting Party did not elect 3 to participate. Such relinquishment shall be effective until the proceeds of the sale of such share, calculated at the well, or 4 market value thereof if such share is not sold (after deducting applicable ad valorem, production, severance, and excise taxes, 5 royalty, overriding royalty and other interests not excepted by Article III.C. payable out of or measured by the production 6 from such well accruing with respect to such interest until it reverss), shall equal the total of the following:

7 (i) <u>100</u>...% of each such Non-Consenting Party's share of the cost of any newly acquired surface equipment 8 beyond the wellhead connections (including but not limited to stock tanks, separators, treaters, pumping equipment and 9 piping), plus 100% of each such Non-Consenting Party's share of the cost of operation of the well commencing with first 10 production and continuing until each such Non-Consenting Party's relinquished interest shall revert to it under other 11 provisions of this Article, it being agreed that each Non-Consenting Party's share of such costs and equipment will be that 12 interest which would have been chargeable to such Non-Consenting Party had it participated in the well from the beginning 13 of the operations; and

(ii) <u>300</u> % of (a) that portion of the costs and expenses of drilling, Reworking, Sidetracking, Deepening,
 Plugging Back, testing, Completing, and Recompleting, after deducting any cash contributions received under Article VIII.C.,
 and of (b) that portion of the cost of newly acquired equipment in the well (to and including the wellbead connections),
 which would have been chargeable to such Non-Consenting Party if it had participated therein.

Norwithstanding anything to the contrary in this Article VI.B., if the well does not teach the deepest objective Zone 18 19 described in the notice proposing the well for reasons other than the encountering of granite or practically impenetrable 20 substance or other condition in the hole rendering further operations impracticable, Operator shall give notice thereof to each 21 Non-Consenting Party who submitted or voted for an alternative proposal under Article VI.B.6. to drill the well to a 22 shallower Zone than the deepest objective Zone proposed in the notice under which the well was drilled, and each such Non-Consenting Party shall have the option to participate in the initial proposed Completion of the well by paying its share of the 23 cost of drilling the well to its actual depth, calculated in the manner provided in Article VI.B.4. (a). If any such Non-24 25 Consenting Party does not elect to participate in the first Completion proposed for such well, the relinquishment provisions 26 of this Article VLB.2. (b) shall apply to such party's interest.

27 (c) <u>Reworking, Recompleting or Plugging Back.</u> An election not to participate in the drilling, Sidetracking or 28 Deepening of a well shall be deemed an election not to participate in any Reworking or Plugging Back operation proposed in 29,such a well, or portion thereof, to which the initial non-consent election applied that is conducted at any time prior to full -30 recovery by the Consenting Parties of the Non-Consenting Party's recoupment amount. Similarly, an election not to 31 participate in the Completing or Recompleting of a well shall be deemed an election not to participate in any Reworking 32 operation proposed in such a well, or purtion thereof, to which the initial non-consent election applied that is conducted at any time prior to full recovery by the Consenting Parties of the Non-Consenting Party's recoupment amount. Any such 33 34 Reworking, Recompleting or Plugging Back operation conducted during the recoupment period shall be deemed part of the cost of operation of said well and there shall be added to the sums to be recouped by the Consenting Parties _ 35 ___9% of 36 that portion of the costs of the Reworking, Recompleting or Plugging Back operation which would have been chargeable to 37 such Non-Consenting Party had it participated therein. If such a Reworking, Recompleting or Plugging Back operation is proposed during such recoupment period, the provisions of this Article VI.B. shall be applicable as between said Consenting 38 39 Parties in said well.

(d) <u>Recoupment Matters.</u> During the period of time Consenting Parties are entitled to receive Non-Consenting Party's
 shate of production, or the proceeds therefrom, Consenting Parties shall be responsible for the payment of all ad valorem,
 production, severance, excise, gathering and other taxes, and all royalty, overtiding royalty and other burdens applicable to
 Non-Consenting Party's share of production not excepted by Article III.C.

In the case of any Reworking, Sidetracking, Plugging Back, Recompleting or Deepening operation, the Consenting Parties shall be permitted to use, free of cost, all casing, tubing and other equipment in the well, but the ownership of all such equipment shall remain unchanged; and upon abandonment of a well after such Reworking, Sidetracking, Plugging Back, Recompleting or Deepening, the Consenting Parties shall account for all such equipment to the owners thereof, with each party receiving its proportionate part in kind or in value, less cost of salvage.

Within ninety (90) days after the completion of any operation under this Article, the party conducting the operations 49 for the Consenting Parties shall furnish each Non-Consenting Party with an inventory of the equipment in and connected to 50 51 the well, and an itemized statement of the cost of drilling, Sidetracking, Deepening, Plugging Back, testing, Completing, Recompleting, and equipping the well for production; or, at its option, the operating party, in lieu of an itemized statement 52 of such costs of operation, may submit a detailed statement of monthly billings. Each month thereafter, during the time the 53 Consenting Parties are being reimbursed as provided above, the party conducting the operations for the Consenting Parties -54 55 shall furnish the Non-Consenting Parties with an itemized statement of all costs and liabilities incurred in the operation of 56 the well, together with a statement of the quantity of Oil and Gas produced from it and the amount of proceeds realized from the sale of the well's working interest production during the preceding month. In determining the quantity of Oil and Gas 57 58 produced during any month, Consenting Parties shall use industry accepted methods such as but not limited to metering or periodic well tests. Any amount realized from the sale or other disposition of equipment newly acquired in connection with 59 60 any such operation which would have been owned by a Non-Consenting Party had it participated therein shall be credited against the total unreturned costs of the work done and of the equipment purchased in determining when the interest of such 61 Non-Consenting Party shall revert to it as above provided; and if there is a credit balance, it shall be paid to such Non-62 63 Consenting Party. *See page 7a.

64 If and when the Consenting Parties recover from a Non-Consenting Party's relinquished interest the amounts provided for above, the relinquished interests of such Non-Consenting Party shall automatically revert to it as of 7:00 a.m. on the day 65 following the day on which such recoupment occurs, and, from and after such reversion, such Non-Consenting Party shall 66 own the same interest in such well, the material and equipment in or pertaining thereto, and the production therefrom as 67 such Non-Consenting Party would have been entitled to had it participated in the drilling, Sidetracking, Reworking, 68 Deepening, Recompleting or Plugging Back of said well. Thereafter, such Non-Consenting Party shall be charged with and 69 shall pay its proportionate part of the further costs of the operation of said well in accordance with the terms of this 70 agreement and Exhibit "C" attached hereto. 71

72 3. Stand-By Costs: When a well which has been drilled or Deepened has reached its authorized depth and allocats have 73 been completed and the results thereof furnished to the parties, or when operations on the well have been otherwise 74 terminated pursuant to Article VI.F., stand-by costs incurred pending response to a party's notice proposing a Reworking,