CASE 5070: Application of AMOCO PRODUCTION FOR APPROVAL OF THE BUBBLING SPRING UNIT AGREEMENT.

### CASE 170. 55070

Application,

Transcripts,

Small Ekhibts

Rug Buell -Bubbling Spring Unich
3078 de
Fed & Foc.
205 26 E Eddy.

amoor Prod. Co.

### EXHIBIT "B" BUBBLING SPRING UNIT AREA EDDY COUNTY, NEW MEXICO

							Revised Effective October 2
FRACT NO.	DESCRIPTION OF LAND	NUMBER OF ACRES	SERIAL NO. AND EXPIRATION DATE OF LEASE	BASIC ROYALTY AND OWNERSHIP PERCENTAGE	LESSEE OF RECORD	OVERRIDING ROYALTY AND OWNERSHIP PERCENTAGE	WORKING INTERE AND OWNERSHIP PERCEN
1	T. 20/3 R. 26 E. Sec. 23: 5/2	320.00	LC-070032-B 1-1-74	All-U.S.A.	Gulf Oil Corporation	Pauline A. Galt 1/10 X \$750/Acre PP out of 5%	Surface to 8900' Gulf Oil Corporation Amoco Production Company
				·		George D. Riggs 9/20 X \$750/Acre PP out of 5%	Yates Petroleum Corporati
		*6				Neil H. Wills 9/20 X \$750/Acre PP out of 5%	From 8900' to Base Penn Gulf Oll Corporation Amoco Production Company
				¥**			Below Base Penn Formation Gulf Oil Corporation
2.	T. 20 S R. 26 E. Sec. 22: N/2 NE/4, SW/4 NE/4	120.00	LC-071847 1-1-74	All-U.S.A.	Cities Service Oil Co. 7.14286% Gulf Oil Corporation 28.57143% Amoco Production Co. 50.00000% Phillips Petroleum Co. 14.28571%	Co.,E.E.Nearburg, Anna A. (Nearburg) Reischman, Tom Ingram, Jimmie Marie Joy, Tr	Surface to 8900' Cities Service 0il Co. Gulf 0il Corporation Amoco Production Company Phillips Petroleum Yates Petroleum Corp.  From 8900' to Base Penn. Cities Service 0il Co. Gulf 0il Corporation Amoco Production Company Phillips Petroleum Co.  Below Base Penn Formation Cities Service 0il Co. Gulf 0il Corporation Amoco Production Company Phillips Petroleum Co.

### EXHIBIT "B" BUBBLING SPRING UNIT AREA EDDY COUNTY, NEW MEXICO

		·		[	Revised Effective October 29	9, 1973
NUMBER OF ACRES	SERIAL NO. AND EXPIRATION DATE OF LEASE	BASIC ROYALTY AND OWNERSHIP PERCENTAGE	LESSEE OF RECORD	OVERRIDING ROYALTY AND OWNERSHIP PERCENTAGE	WORKING INTERE AND OWNERSHIP PERCEN	
320.00	L.C-070032-B 1-1-74	A11-U.S.A.	Gulf Oil Corporation	Pauline A. Galt 1/10 X \$750/Acre PP out of 5%	Surface to 8900' Gulf Oil Corporation Amoco Production Company	74.03350% 25.00000%
				George D. Riggs 9/20 X \$750/Acre PP out of 5%	Yates Petroleum Corporatio	on 0.96650%
•••				Neil H. Wills 9/20 X \$750/Acre PP out of 5%	From 8900' to Base Penn Gulf Oil Corporation Amoco Production Company	50.00000% 50.00000%
					Below Base Penn Formation Gulf Oil Corporation	100.00000%
120.00	LC-071847 1-1-74	A11-U.S.A.	Cities Service Oil Co. 7.14286% Gulf Oil Corporation 28.57143% Amoco Production Co. 50.00000% Phillips Petroleum Co. 14.28571%	Co.,E.E.Nearburg, Anna A. (Nearburg) Reischman, Tom Ingram, Jimmie Marie Joy, Tr., Billie L. Kruse, Tr. \$750/Acre PP out of 5% Edna E. Morrell 1%	Surface to 8900' Cities Service Oil Co. Gulf Oil Corporation Amoco Production Company Phillips Petroleum Yates Petroleum Corp.  From 8900' to Base Penn. Cities Service Oil Co. Gulf Oil Corporation	3.57143% 56.03829% 25.00000% 14.28571% 1.10457% 7.14286% 28.57143%
			es.	First Natl. Bank of Roswell, New Mexico Tr. 1%	Amoco Production Company Phillips Petroleum Co.	50.00000% 14.28571%
				Tracy Clark & Robert Boling 1/4 of 1%	Below Base Penn Formation Cities Service Oil Co. Gulf Oil Corporation Amoco Production Company Phillips Petroleum Co.	3.57143% 14.28571% 75.00000% 7.14286%

XHIBIT "B" - BUBBLING SPRING, EDDY COUNTY, NEW MEXICO

	•						
rract No.	DESCRIPTION OF LAND	NUMBER OF ACRES	SERIAL NO. AND EXPIRATION DATE OF LEASE	D BASIC ROYALTY AND OWNERSHIP PERCENTAGE	LESSEE OF RECORD	OVERRIDING ROYALTY AND OWNERSHIP PERCENTAGE	WORKING INTERE AND OWNERSHIP PERCEN
3	T. 20 S R. 26 E. Sec. 22: SE/4 NE/4	40.00	LC-071847-A 1-1-74	All-U.S.A.	Cities Service Oil Co. 50.0000% Phillips Petroleum Co. 50.0000%	Co., E.E. Nearburg, Anna A. (Nearburg) Reischman, Tom Ingram, Jimmie Marie Joy, Tr., Billie L. Kruse, Tr. \$750/Acre PP out of 5% Edna E. Morrell 1% First Natl. Bank of Roswell, New Mexico, Tr. 1% Tracy Clark & Robert Boling 1/4 of 1%	From 8900' to Base Penn Cities Service Oil Co. Gulf Oil Corporation
4	T. 20 S R. 26 E. Sec. 21: E/2 SE/4 Sec. 28: S/2 NE/4, SE/4, NE/4	SE/4	NM-03215 H.B.P.	A11-U.S.A.	56.03829% Amoco Production Co. 25.00000% Phillips Petroleum Co. 14.28571% Yates Petroleum Co. 1.10457%	Co.,E.E.Nearburg, Anna A.(Nearburg) Reischman, Tom Ingram, Jimmie Marie Joy, Tr., Billie L. Kruse, Tr. \$750/Acre PP out of 5% Edna E. Morrell 1%	Surface to 8900' Cities Service Oil Co. Gulf Oil Corporation Amoco Production Company Phillips Petroleum Co. Yates Petroleum Corp.  From 8900' to Base Penn Cities Service Oil Co. Gulf Oil Corporation Amoco Production Company

First Natl. Bank of Roswell, New Mexico Phillips Petroleum Co.
Tr. 1%
Tracy Clark & Below Base Penn Formation Cities Service Oil Co.
1/4 of 1%

Below Base Penn Formation Cities Service 011 Co.

DDY COUNTY, NEW MEXICO

BER OF CRES	SERIAL NO. AND EXPIRATION DATE OF LEASE	BASIC ROYALTY AND OWNERSHIP PERCENTAGE	LESSEE OF RECORD	OVERRIDING ROYALTY AND OWNERSHIP PERCENTAGE	WORKING INTERES AND OWNERSHIP PERCENT	
0.00	LC-071847-A 1-1-74	All-U.S.A.	Cities Service Oil Co. 50.00000% Phillips Petroleum Co. 50.00000%	Co.,E.E.Nearburg, Anna A.(Nearburg) Reischman, Tom Ingram, Jimmie Marie Joy, Tr., Billie L. Kruse, Tr. \$750/Acre PP out of 5% Edna E. Morrell 1% First Natl. Bank of	Surface to 8900' Cities Service Oil Co. Gulf Oil Corporation Amoco Production Company Phillips Petroleum Co. Yates Petroleum Corp.  From 8900' to Base Penn Cities Service Oil Co. Gulf Oil Corporation Amoco Production Company Phillips Petroleum Co.  Below Base Penn Formation Cities Service Oil Co. Gulf Oil Corporation Amoco Production Company Phillips Petroleum Co.	3.57143% 56.03829% 25.00000% 14.28571% 1.10457%  7.14286% 28.57143% 50.00000% 14.28571%  3.57143% 14.28571% 75.00000% 7.14286%
.00	NM-03215 H.B.P.	All-U.S.A.	Cities Service Oil Co. 3.57143% Gulf Oil Corporation 56.03829% Amoco Production Co. 25.00000% Phillips Petroleum Co. 14.28571% Yates Petroleum Co. 1.10457%	Co., E.E. Nearburg, Anna A. (Nearburg) Reischman, Tom Ingram, Jimmie Marie Joy, Tr., Billie L. Kruse, Tr. \$750/Acre PP out of 5% Edna E. Morrell 1% First Natl. Bank of Roswell, New Mexico Tr. 1% Tracy Clark &	Surface to 8900' Cities Service Oil Co. Gulf Oil Corporation Amoco Production Company Phillips Petroleum Co. Yates Petroleum Corp.  From 8900' to Base Penn Cities Service Oil Co. Gulf Oil Corporation Amoco Production Company Phillips Petroleum Co. Below Base Penn Formation Cities Service Oil Co.	3.57143% 56.03829% 25.00000% 14.28571% 1.10457% 7.14286% 28.57143% 50.00000% 14.28571%

EXHIBIT "B" - BUBBLING SPRING, EDDY COUNTY, NEW MEXICO

RACT	DESCRIPTION OF LAND	NUMBER OF ACRES	SERIAL NO. AND EXPIRATION DATE OF LEASE	BASIC ROYALTY AND OWNERSHIP PERCENTAGE	LESSEE OF RECORD	OVERRIDING ROYALTY AND OWNERSHIP PERCENTAGE	WORKING INTERE AND OWNERSHIP PERCEN
4 Contd.		**************************************					Gulf Oil Corporation Amoco Production Company Phillips Petroleum Co.
5	T. 20 S R. 26 E. Sec. 21: NW/4 SE/4 Sec. 27: E/2 NW/4 Sec. 28: N/2 SE/4, SE/4	240.00 SW/4	NM-03215-A H.B.P.	A11-U.S.A.	Cities Service Oil Co. 50.00000% Phillips Petroleum Co. 50.00000%	Co.,E.E.Nearburg, Anna A.(Nearburg) Reischman, Tom Ingram, Jimmie Marie Joy, Tr., Billie L. Kruse, Tr. \$750/Acre PP out of 5% Edna E. Morrell 1% First Natl. Bank of	Surface to 8900' Cities Service Oil Co. Gulf Oil Corporation Amoco Production Company Phillips Petroleum Co. Yates Petroleum Corp.  From 8900' to Base Penn Cities Service Oil Co. Gulf Oil Corporation Amoco Production Company Phillips Petroleum Co.  Below Base Penn Formation Cities Service Oil Co. Gulf Oil Corporation Amoco Production Company Phillips Petroleum Co.
6	T. 20 S R. 26 E. Sec. 22: SW/4 Sec. 27: NW/4 NW/4	200.00	NM-03217 1-1-74	All-U.S.A.	Cities Service Oil Co. 7.14286% Gulf Oil Corporation 28.57143% Amoco Production Co. 50.00000% Phillips Petroleum Co. 14.28571%	Co., E.E. Nearburg, Anna A. (Nearburg) Reischman, Tom Ingram, Jimmie Marie Joy, Tr., Billie L. Kruse, Tr. \$750/Acre PP out of 5% Edna E. Morrell 1% First Natl. Bank of	Surface to 8900' Cities Service Oil Co. Gulf Oil Corporation Amoco Production Company Phillips Petroleum Co. Yates Petroleum Corp.  From 8900' to Base Penn Cities Service Oil Co. Gulf Oil Corporation Amoco Production Company Phillips Petroleum Co.

, EDDY COUNTY, NEW MEXICO

NUMBER OF ACRES	SERIAL NO. AND EXPIRATION DATE OF LEASE	BASIC ROYALTY AND OWNERSHIP PERCENTAGE	LESSEE OF RECORD	OVERRIDING ROYALTY AND OWNERSHIP PERCENTAGE	WORKING INTERES AND OWNERSHIP PERCENT	
					Gulf Oil Corporation Amoco Production Company Phillips Petroleum Co.	14.28571% 75.00000% 7.14286%
240.00 SW/4	NM-03215-A H.B.P.	All-U.S.A.	Cities Service Oil Co. 50.00000% Phillips Petroleum Co. 50.00000%	Co.,E.E.Nearburg, Anna A.(Nearburg) Reischman, Tom Ingram, Jimmie Marie Joy, Tr., Billie L. Kruse, Tr. \$750/Acre PP out of 5% Edna E. Morrell 1% First Natl. Bank of Roswell, New Mexico, Tr. 1% Tracy Clark & Robert Boling	Surface to 8900' Cities Service Oil Co. Gulf Oil Corporation Amoco Production Company Phillips Petroleum Co. Yates Petroleum Corp.  From 8900' to Base Penn Cities Service Oil Co. Gulf Oil Corporation Amoco Production Company Phillips Petroleum Co.  Below Base Penn Formation Cities Service Oil Co.	3.57143% 56.03829% 25.00000% 14.28571% 1.10457% 7.14286% 28.57143% 50.00000% 14.28571%
				1/4 of 1%	Gulf Oil Corporation Amoco Production Company Phillips Petroleum Co.	14.28571% 75.00000% 7.14286%
200.00	NM-03217 1-1-74	All-U.S.A.	Cities Service Oil Co. 7.14286% Gulf Oil Corporation 28.57143% Amoco Production Co. 50.0000%	Co.,E.E.Nearburg, Anna A.(Nearburg) Reischman, Tom Ingram, Jimmie Marie Joy, Tr.,	Surface to 8900' Cities Service Oil Co. Guif Oil Corporation Amoco Production Company Phillips Petroleum Co. Yates Petroleum Corp.	3.57143% 56.03829% 25.00000% 14.28571% 1.10457%
			Phillips Petroleum Co. 14.28571%	\$750/Acre PP out of 5% Edna E. Morrell 1% First Natl. Bank of	From 8900' to Base Penn Cities Service Oil Co. Gulf Oil Corporation Amoco Production Company Phillips Petroleum Co.	7.14286% 28.57143% 50.00000% 14.28571%

EXHIBIT "B" - BUBBLING SPRING, EDDY COUNTY, NEW MEXICO

TRACT	DESCRIPTION OF LAND	NUMBER OF ACRES	SERIAL NO. AND EXPIRATION DATE OF LEASE	BASIC ROYALTY AND OWNERSHIP PERCENTAGE	LESSEE OF RECORD	OVERRIDING ROYALTY AND UWNERSHIP PERCENTAGE	WORKING INTERE AND OWNERSHIP PERCEN
6 Contd.						Tr. 1% Tracy Clark & Robert Boling 1/4 of 1%	Below Base Penn Formation Cities Service Oil Co. Gulf Oil Corporation Amoco Production Company Phillips Petroleum Co.
<b>7</b>	T. 20 S R. 26 E. Sec. 22: NW/4, SE/4	320,00	NM-03217-A 1-1-74	ALL-U.S.A.	Cities Service Oil Co 50.00000% Phillips Petroleum Co. 50.00000%	Co.,E.E.Nearburg, Anna A.(Nearburg) Reischman, Tom Ingram, Jimmie Marie Joy, Tr., Billie L. Kruse, Tr. \$750/Acre PP out of 5% Edna E. Morrell 1% First Natl Bank of	Surface to 8900' Cities Service Oil Co. Gulf Oil Corporation Amoco Production Company Phillips Petroleum Co. Yates Petroleum Corp.  From 8900' to Base Penn Cities Service Oil Co. Gulf Oil Corporation Amoco Production Company Phillips Petroleum Co.  Below Base Penn Formation Cities Service Oil Co. Gulf Oil Corporation Amoco Producton Company Phillips Petroleum Co.
8	T. 20 S R. 26 E. Sec. 21: W/2 NE/4	80.00	NM-03365 1-1-74	A11-U.S.A.	Cities Service 0il Co. 7.14286% Gulf 0il Corporation 28.57143% Amoco Production Co. 50.00000% Phillips Petroleum Co. 14.28571%	Childress Royalty, E.E. Nearburg, Anna A. (Nearburg) Reischman, Tom Ingram, Jimmie Marie Joy, Tr., Billie L. Kruse, Tr. \$750/Acre PP out of 5% Edna E. Morrell 1%	Surface to 8900' Cities Service Oil Co. Gulf Oil Corporation Amoco Production Company Phillips Petroleum Co. Yates Petroleum Co. From 8900' to Base Penn Cities Service Oil Co. Gulf Oil Corporation

NG, EDDY COUNTY, NEW MEXICO

NUMBER OF ACRES	SERIAL NO. AND EXPIRATION DATE OF LEASE	BASIC ROYALTY AND OWNERSHIP PERCENTAGE	LESSEE OF RECORD	OVERRIDING ROYALTY AND OWNERSHIP PERCENTAGE	WORKING INTERES AND OWNERSHIP PERCENT	
				Tr. 1% Tracy Clark & Robert Boling 1/4 of 1%	Below Base Penn Formation Cities Service Oil Co. Gulf Oil Corporation Amoco Production Company Phillips Petroleum Co.	3.57143% 14.28571% 75.00000% 7.14286%
74 320.00	NM-03217-A 1-1-74	ALL-U.S.A.	Cities Service Oil Co 50.00000% Phillips Petroleum Co. 50.00000%	Co.,E.E.Nearburg, Anna A.(Nearburg) Reischman, Tom Ingram, Jimmie Marie Joy, Tr., Billie L. Kruse, Tr. \$750/Acre PP out of 5% Edna E. Morrell 1% First Natl Bank of	Surface to 8900' Cities Service Oil Co. Gulf Oil Corporation Amoco Production Company Phillips Petroleum Co. Yates Petroleum Corp.  From 8900' to Base Penn Cities Service Oil Co. Gulf Oil Corporation Amoco Production Company Phillips Petroleum Co.  Below Base Penn Formation	3.57143% 56.03829% 25.00000% 14.28571% 1.10457% 7.14286% 28.57143% 50.00000% 14.28571%
* * !				Robert Boling 1/4 of 1%	Cities Service 011 Co. Gulf 011 Corporation Amoco Producton Company Phillips Petroleum Co.	3.57143% 14.28571% 75.00000% 7.14286%
<b>80.00</b>	NM-03365 1-1-74	ATT-U.S.A.	Cities Service 0il Co. 7.14286% Gulf 0il Corporation 28.57143% Amoco Production Co. 50.00000% Phillips Petroleum Co.	Childress Royalty Co., E.E. Nearburg, Anna A. (Nearburg) Reischman, Tom Ingram, Jimmie Marie Joy, Tr., Billie L. Kruse, Tr.	Surface to 8900' Cities Service Dil Co. Gulf Oil Corporation Amoco Production Company Phillips Petroleum Co. Yates Petroleum Co.	3.57143% 56.03829% 25.00000% 14.28571% 1.10457%
			14.28571%	\$750/Acre PP out of 5% Edna E. Morrell 1%	From 8900' to Base Penn Cities Service 011 Co. Gulf Oil Corporation	7.14286% 28.57143%

EXHIBIT "B" - BUBBLING SPRING, EDDY COUNTY, NEW MEXICO

FRACT NO.	DESCRIPTION OF LAND	NUMBER OF ACRES	SERIAL NO. AND EXPIRATION DATE OF LEASE	BASIC ROYALTY AND GWNERSHIP PERCENTAGE	LESSEE OF RECORD	OVERRIDING ROYALTY AND OWNERSHIP PERCENTAGE	WORKING INT AND OWNERSHIP PER
8 Contd.						First Natl. Bank of Roswell, New Mexico, Tr. 1% Tracy Clark & Robert Boling 1/4 of 1%	Amoco Production Compa Phillips Petroleum Co. Below Base Penn Format Cities Service Oil Co. Gulf Oil Corporation Amoco Production Compa Phillips Petroleum Co.
9	T. 20 S 26 E. Sec. 21: E/2 NE/4	80.00	NM-03365-A 1-1-74	A11-U.S.A.	Cities Service 0il Co. 50,00000% Phillips Petroleum Co. 50.00000%	Co., E.E. Nearburg, Anna A. (Nearburg) Reischman, Tom Ingram, Jimmie Marie Joy, Tr., Billie L. Kruse, Tr. \$750/Acre PP out of 5% Edna E. Morrell 1% First Natl. Bank of Roswell, New Mexico	Surface to 8900' Cities Service Oil Co. Gulf Oil Corporation Amoco Production Compa Phillips Petroleum Co. Yates Petroleum Corp.  From 8900' to Base Pen Cities Service Oil Co. Gulf Oil Corporation Amoco Production Compa Phillips Petroleum Co.
						Tr. 1% Tracy Clark & Robert Boling 1/4 of 1%	Below Base Penn Format Cities Service 011 Co. Gulf Oil Corporation Amoco Production Compa Phillips Petroleum Co.
10	T. 20 S R. 26 E. Sec. 27: All of NE/G SW/4 East of Pecos River	of.	NM-038124 1-1-74	A11-U.S.A.	Cities Service Oil Co.	Peter O.Nyce, Jr.	Surface to 8900' Cities Service 0il Co. Gulf 0il Corporation Amoco Production Compa Yates Petroleum Corp.

1

G, EDDY COUNTY, NEW MEXICO

NUMBER OF ACRES	SERIAL NO. AND EXPIRATION DATE OF LEASE	BASIC ROYALTY AND OWNERSHIP PERCENTAGE	LESSEE OF RECORD	OVERRIDING ROYALTY AND OWNERSHIP PERCENTAGE	WORKING INTEREST AND OWNERSHIP PERCENTAGE		
					Amoco Production Company Phillips Petroleum Co.  Below Base Penn Formation Cities Service Oil Co. Gulf Oil Corporation Amoco Production Company Phillips Petroleum Co.	50.00000% 14.28571% 3.57143% 14.28571% 75.00000% 7.14286%	
80.00	NM-03365-A 1-1-74	A11-U.S.A.	Cities Service 0il Co. 50.00000% Phillips Petroleum Co. 50.00000%	Co.,E.E.Nearburg, Anna A.(Nearburg) Reischman, Tom Ingram, Jimmie Marie Joy, Tr., Billie L. Kruse, Tr. \$750/Acre PP out of 5% Edna E. Morrell 1% First Natl. Bank of	Surface to 8900' Citles Service Oil Co. Gulf Oil Corporation Amoco Production Company Phillips Petroleum Co. Yates Petroleum Corp.  From 8900' to Base Penn Citles Service Oil Co. Gulf Oil Corporation Amoco Production Company	3.57143% 56.03829% 25.00000% 14.28571% 1.10457% 7.14286% 28.57143% 50.00000%	
				Roswell, New Mexico Tr. 1% Tracy Clark & Robert Boling 1/4 of 1%	Phillips Petroleum Co.  Below Base Penn Formation Cities Service Oil Co. Gulf Oil Corporation Amoco Production Company Phillips Petroleum Co.	3.57143 <u>%</u> 14.28571 <u>%</u> 14.28571 <u>%</u> 75.00000 <u>%</u> 7.14286 <u>%</u>	
5.20	NM-038124 1-1-74	A11-U.S.A.	Cities Service Oil Co.	Peter O.Nyce, Jr. 1%	Surface to 8900' Cities Service 011 Co. Gulf 011 Corporation Amoco Production Company Yates Petroleum Corp.	25.00000% 48.06700% 25.00000% 1.93300%	

EXHIBIT "B" - BUBBLING SPRING, EDDY COUNTY, NEW MEXICO

FRACT NO.	DESCRIPTION OF LAND	NUMBER OF ACRES	SERIAL NO. AND EXPIRATION DATE OF LEASE	BASIC ROYALTY AND OWNERSHIP PERCENTAGE	LESSEE OF RECORD	OVERRIDING ROYALTY AND OWNERSHIP PERCENTAGE	WORKING INTER AND OWNERSHIP PERCE
10 Contd.							Below 8900' Cities Service Oil Co. Amoco Production Company
11	T. 20 S R. 26 E. Sec. 27: N/2 SE/4 East of Per River	21.00 cos	NM-038124-A 1-1-74	A11-U.S.A	Amoco Production Co.	Peter Q.Nyce, Jr. 1%	Surface to 8900' Gulf Oil Corporation Amoco Production Company Yates Petroleum Corp.
							Below 8960' Amoco Production Company
12	T. 20 S R. 26 E. Sec. 27: E/2 NE/4	80.00	NM-0283953A 1-1-74	A11-U.S.A.	Gulf Oil Corporation	David M. Evans 5%	Surface to 89001 Gulf Oil Corporation Amoco Production Company Yates Petroleum Corp.
							From 8900' to Base Penn Gulf Oil Corporation Amoco Production Company
			•				Below Base Penn Formatio Gulf Oil Corporation
13	T. 20 S R. 26 E. Sec. 26: E/2, NW/4, E/2 SW/4 Sec. 35: E/2, E/2 W/2		NM-0338758 H.B.P.	A11-U.S.A.	Gulf Oil Corporation	Pauline A, Galt \$500/Acre PP out of 1/2 of 1%-George D. Riggs \$500/Acre	Surface to 8900' Gulf Oil Corporation Amoco Production Company Yates Petroleum Corp.
\$ <b>.</b>	Save and except an un surveyed 76.33 acre tract lying along the West side of SE/4 SW/4 of Sec. 26	<b> -</b>			•	PP out of 2.25%- Neil H. Wills \$500/Acre PP out of 2.25%	From 8900' to Base Penn Gulf Oil Corporation Amoco Production Company
	and E/2 W/2 Sec. 35.						Below Base Penn Formation

NG, EDDY COUNTY, NEW MEXICO

NUMBER OF ACRES	SERIAL NO. AND EXPIRATION DATE OF LEASE	BASIC ROYALTY AND OWNERSHIP PERCENTAGE	LESSEE OF RECORD	OVERRIDING ROYALTY AND OWNERSHIP PERCENTAGE	WORKING INTEREST AND OWNERSHIP PERCENTAGE
					Below 8900' Cities Service Oil Co. 50.00000% Amoco Production Company 50.00000%
21.00 ecos	NM-038124-A 1-1-74	ATT-U.S.A	Amoco Production Co.	Peter Q.Nyce, Jr.	Surface to 8900' Gulf Oil Corporation 48.06700% Amoco Production Company 50.00000% Yates Petroleum Corp. 1.93300%
					Below 8900' Amoco Production Company 100.00000%
80.00	NM-0283953A 1-1-74	A11-U.S.A.	Gulf 011 Corporation	David M. Evans 5%	Surface to 8900' Gulf Oil Corporation 74.03350% Amoco Production Company 25.00000% Yates Petroleum Corp. 0.96650%
					From 8900' to Base Penn Gulf Oil Corporation 50.00000% Amoco Production Company 50.00000%
<b>;</b> ·					Below Base Penn Formation Gulf Oil Corporation 100.00000%
963.67 //2	NM-0338758 H.B.P.	A11-U.S.A.	Gulf Oil Corporation	Pauline A. Galt \$500/Acre PP out of 1/2 of 1%-George D. Riggs \$500/Acre	Sirface to 8900' Gulf Oil Corporation 74.03350% Amoco Production Company 25.00000% Yates Petroleum Corp. 0.96650%
un- 6		•	,	PP out of 2.25%- Neil H. Wills \$500/Acre PP out of 2.25%	From 8900' to Base Penn Gulf Oil Corporation 50.00000% Amoco Production Company 50.00000%
•					Below Base Penn Formation Gulf 011 Corporation 100.00000%

"XHIBIT "B" - BUBBLING SPRING, EDDY COUNTY, NEW MEXICO

fract NO.	DESCRIPTION OF LAND	NUMBER OF ACRES	SERIAL NO. AND EXPIRATION DATE OF LEASE	BASIC ROYALTY AND OWNERSHIP PERCENTAGE	LESSEE OF RECORD	OVERRIDING ROYALTY AND OWNERSHIP PERCENTAGE	WORKING INTER AND OWNERSHIP PERCE
14	T. 20 S R. 26 E. Sec. 27: W/2 NE/4	80.00	NM-0426336 1-1-74	A11-U.S.A.	Amoco Production Co.	F. J. Bradshaw 3%	Surface to 8900' Gulf Oil Corporation Amoco Production Company Yates Petroleum Corp.
							Below 8900' Amoco Production Company
15	T. 20 S R. 26 E. Sec. 27: SW/4 NW/4, NW/4 SW/4 lying East of Pecos Riv	14.00 ver	BLM-A-026872 1-1-74	A11-U.S.A.	Cities Service 011 Co.	Peter Q.Nyce, Jr. 1%	Surface to 8900' Cities Service Oil Co. Gulf Oil Corporation Amoco Production Company Yates Petroleum Corp.
**************************************	Sec. 28: NW/4 NE/4 lying East of Pecos Riv	ver					From 8900' to Base Penn Cities Service Oil Co. Gulf Oil Corporation Amoco Production Company
							Below Base Penn Formatic Cities Service Oil Co. Amoco Production Company
16	T. 20 S R. 26 E. Sec. 21: All SW/4 SE/4 lying East of Peco	28.00 os River	BLM-A-026872-A 1-1-74	A11-U.S.A.	Amoco Production Co.	Peter Q.Nyce, Jr. 1%	Surface to 8900' Gulf Oil Corporation Amoco Production Company Yates Petroleum Corp.
			e e				From 8900' to Base Penn Gulf Oil Corporation Amoco Production Compan
			·				Below Base Penn Amoco Production Compan

### EDDY COUNTY, NEW MEXICO

NUMBER OF Acres	SERIAL NO. AND EXPIRATION DATE OF LEASE	BASIC ROYALTY AND OWNERSHIP PERCENTAGE	LESSEE OF RECORD	OVERRIDING ROYALTY AND OWNERSHIP PERCENTAGE	WORKING INTEREST AND OWNERSHIP PERCENTAGE
80.00	NM-0426336 1-1-74	A11-U.S.A.	Amoco Production Co.	F. J. Bradshaw 3%	Surface to 8900' Gulf Oil Corporation 48.06700% Amoco Production Company 50.00000% Yates Petroleum Corp. 1.93300%
					Below 8900' Amoco Production Company 100.00000%
14.00 er	BLM-A-026872 1-1-74	A11-U.S.A.	Cities Service Oil Co.	Peter Q.Nyce, Jr. 1%	Surface to 8900' Cities Service Oil Co. 12.50000% Gulf Oil Corporation 61.05024% Amoco Production Company Yates Petroleum Corp. 1.44976%
er					From 8900' to Base Penn Cities Service Oil Co. 25.00000% Gulf Oil Corporation 25.00000% Amoco Production Company 50.00000%
i.					Below Base Penn Formation Cities Service Oil Co. 50.00000% Amoco Production Company 50.00000%
28,00 s River	BLM-A-026872-A 1-1-74	A11-U.S.A.	Amoco Production Co.	Peter Q.Nyce, Jr. 1%	Surface to 8900' Gulf Oil Corporation 61.05025% Amoco Production Company 37.50000% Yates Petroleum Corp. 1.44975%
					From 8900' to Base Penn Gulf Oil Corporation 25.00000% Amoco Production Company 75.00000%
	<i>Y</i>			·	Below Base Penn Amoco Production Company 100.00000%

EXHIBIT "B" - BUBBLING SPRING, EDDY COUNTY, NEW MEXICO

TRACT NO.	DESCRIPTION OF LAND	NUMBER OF ACRES	SERIAL NO. AND EXPIRATION DATE OF LEASE	BASIC ROYALTY AND OWNERSHIP PERCENTAGE	LESSEE OF RECORD	OVERRIDING ROYALTY AND OWNERSHIP PERCENTAGE	WORKING INT AND OWNERSHIP PER
17	T. 20 S R. 26 E. Sec. 26: NW/4 SW/4 lying East of Pecos River	37.25	BLM-A-032236-B H.B.P.	All-U.S.A.	Gulf Oil Corporation	Elk Oil Company 2%	Gulf Oil Corporation
	17 Tracts	Federal Land	ds	2,869.12 Acres	:	93.21% of Unit Area	
18	T. 20 S R. 26 E. Sec. 27: Fairchild Farm Trs. 785,786, 787,788,789,790,	115.5	Fee Lease 4-17-78	12.5% T. D. Hardes ty	Gulf Oil Corporation	None	Gulf Oil Corporation
	being all of N/2 S/2 SAVE & EXCEPT that acreage lying & being on the left or east bank of the Pecos River & SAVE & EXCEPT Fairchild Farm Tr.						
	784 conveyed to W.M.Truitt by Tax Deed recorded in VOL.D6, Pg.31, Deed Record, Eddy Co., N.M., & being approx. the North 16 acres of NW/4 SW/4						
19	T. 20 S R. 26 E. Sec. 27: Fairchild Farm Tr.784, being approx. the North 16 acres of NW/4 SW/4	16.00	Fee Lease 5-24-78	18.75%-W.M. Truitt	Gulf Oil Corporation	None	Gulf Oil Corporation

٠, ,

### ING, EDDY COUNTY, NEW MEXICO

NUMBER OF ACRES	SERIAL NO. AND EXPIRATION DATE OF LEASE	BASIC ROYALTY AND OWNERSHIP PERCENTAGE	LESSEE OF RECORD	OVERRIDING ROYALTY AND OWNERSHIP PERCENTAGE	WORKING INTE AND OWNERSHIP PERC	•
37.25	BLM-A-032236-B H.B.P.	ÁÌI-U.S.A.	Gulf Oil Corporation	Elk Oll Company 2%	Gulf Oil Corporation	100.0000%
Federal Lai	nds	2,869.12 Acres		93.21% of Unit Area		<u></u>
115.5	Fee Lease 4-17-78	12.5% T. D. Hardesty	Gulf 011 Corporation	None	Gulf Oil Corporation	100.00000%
1			$G_{ij}$			

Fee Lease 5-24-78

18.75%-W.M. Truitt Gulf Oil Corporation

None

Gulf 011 Corporation

100.00000%

ZXHIBIT "B" - BUBBLING SPRING, EDDY COUNTY, NEW MEXICO

TRACT NO.	DESCRIPTION OF LAND	NUMBER OF ACRES	SERIAL NO. AND EXPIRATION DATE OF LEASE	BASIC ROYALTY AND OWNERSHIP PERCENTAGE	LESSEE OF RECORD	OVERRIDING ROYALTY AND OWNERSHIP PERCENTAGE	WORKING IN AND OWNERSHIP PE
20	T. 20 S R. 26 E. Sec. 26: NW/4 SW/4 SAVE & EXCEPT all the part of each of the above described tract lying & being on the left or east bank of Pecos River	ts	Fee Lease H.B.P.	C. L. Thacker 12.5%	Amoco Production Co.	None	Surface to 8900' Gulf Oil Corporation Amoco Production Compa Yates Petroleum Corp  Below 8900' Amoco Production Compa
21	T. 20 S R. 26 E. Sec. 21: SW/4 SE/4 being a part of the Fairchild Farm Tr.781 Sec. 27: SW/4 NW/4 Sec. 28: NW/4 NE/4 be Fairchild Farm Trs. 783 & a part of 781, SAVE & EXCEPT all that part of each of the above described tractlying & being on the left or east bank of the Pecos River	ing '82,	Fee Lease 9-26-77	C. C. Foster 12.5%	Tesoro Petroleum Cor	p. William R. Larsen 3%	Tesoro Petroleum Corp
	4 Tracts	A CANADA AND AND AND AND AND AND AND AND AN	Fee Lands		209 Acres	6.79% of Unit Area	
			FEI	L LANDS 2,8	09.00 ACRES 6	3.21000% UNIT AREA 5.79000% UNIT AREA 0.00000% UNIT AREA	

G, EDDY COUNTY, NEW MEXICO

TOTAL LANDS

3,078.12 ACRES

NUMBER OF ACRES	SERIAL NO. AND EXPIRATION DATE OF LEASE	BASIC ROYALTY AND OWNERSHIP PERCENTAGE	LESSEE OF RECORD		OVERRIDING ROYALTY AND OWNERSHIP PERCENTAGE	WORKING INTERE AND OWNERSHIP PERCEN	4.5
2.75 hat	Fee Lease H.B.P.	C. L. Thacker	Amoco Production	Co.	None	Surface to 8900' Gulf Oil Corporation Amoco Production Company Yates Petroleum Corp	48.06700% 50.00000% 1.93300%
tts e f the	·					Below 8900' Amoco Production Company	100.00000%
7 <b>4.7</b> 5 81	Fee Lease 9-26-77	C. C. Foster 12.5%	Tesoro Petroleum		William R. Larsen 3%	Tesoro Petroleum Corp.	100.00000%
being 782.							
hat cts e f		· · · · · · · · · · · · · · · · · · ·					
	Fee Lands		209 Acres	··	5.79% of Unit Area		
<del></del>	Lee rangs	<u>R</u>	RECAPITULATION				
	FEDERAL FEE	·	9.12 ACRES	93.21 6.79	000% UNIT AREA		

100.00000% UNIT AREA

BEFORE THE

NEW MEXICO OIL CONSERVATION COMMISSION

25

18

19

20

21

23

24

MR. STAMETS: Call next case 5070. MR. DERRYBERRY: Case 5070, Application of Amoco Production Company for a unit agreement, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks 5 approval of the Bubbling Spring Unit Area comprising 3078 acres, б more or less, of Federal and Fee lands in Township 20 South, 7 Range 26 East, Eddy County, New Mexico. 8 MR. STAMETS: Call for appearances in this case. 9 MR. BUELL: For Amoco Production Company, Guy Buell; and we have two witnesses, Mr. Examiner. 10 MR. STAMETS: Are there any other appearances 11 in this case? If the witnesses will stand and be sworn. 12 MR. BUELL: Mr. Examiner, some of our geological 13 exhibits are quite large, and I think it would be better to put 14 15 them on the wall so you and your counselor can both see them. Our first witness is Mr. Anderson. 16 \*\*\*\* 17

### JACK ANDERSON,

was called as a witness, and after being duly sworn, testified as follows:

### DIRECT EXAMINATION

### BY MR. BUELL:

Q Mr. Anderson, would you state your complete name, by whom you are employed and in what capacity and in what location, please, sir?

25

NEW MEXICO 87103	MEXICO 87108
09 SIMMS BLOG. P.O. BOX 1092-PHONE 243-6691-ALBUQUERQUE, NEW MEXICO 87103	1216 FIRST NATIONAL BANK BLDG, EAST+ALBUDUEROUE, NEW MEXICO 87108
3406.9 P.O. BOX 1092 . PHON	R\$T NATIONAL BANK BLDG
OP SIMMS E	1216 F11

1	Α	My name is Jack D. Anderson, employed by Amoco Production
2		Company in Houston, Texas, as a Land Man.
3	Q	All right, sir. And in your capacity with Amoco, have you
		participated in the negotiations that have resulted in the formation
5		of the Bubbling Spring Unit?
,	A	Yes, sir.
	Ω	All right, sir. In connection with your testimony, would you
		direct your attention first to what has been identified as Amoco's
,		Exhibit I and please explain that Exhibit for the record?
	Α	This is an Exhibit which is attached to the Unit Agreement which
		outlines the acreage to be placed within the Bubbling Spring Unit.
		On our Exhibit, you will notice that a portion of the acreage is
		covered in green which represents the fee acreage located within
		the unit boundary. The balance of the acreage is Federal acreage.
	Q	No State acreage in this particular unit?
	Α	That's correct.
	Q	How many acres are in this unit?
	Α	3,078.12 acres.
	Q	Would you describe the area of the unit for the record, please?
	A	All of the acreage is located in Township 20 South, Range 26 East.
		It's the south half of Section 23, all of Section 22, the east half
		of Section 21, the east half of Section 28, the north half of Section 27
		and also the north half of the south half of Section 27, the east half
		of Section 26, the northwest quarter of Section 26, the north half

of the southwest quarter of Section 26, the southeast quarter of the

NEW MEXICO 87103	MEXICO 87108
209 SIMMS BLDG. P.O. BOX 1092+PHONE 243-6691+ALBUQUERQUE, NEW MEXICO 87103	1216 FIRST NATIONAL BANK BLDG. EAST PALBUQUERQUE, NEW MEXICO 87108

25

1		southwest quarter of Section 26. In Section 35, it's the east half
2		and the east half of the west half.
3	Q	All right. Now, Mr. Anderson, this appears to be a rather
4		irregular shaped unit. Will the reason for that be covered in our
5		geological testimony?
6	A	Yes. I might briefly just state that this particular area was in
7		a unit prior to this. It was the Adams Bend Unit which Amoco
8		Production formed. We drilled a well in the north half of Section 23,
9		and it was dry. Then Gulf Oil formed a unit which they called
10		a Springs Unit encompassing the same acreage.
11		The reason for the irregular description is that the
12		south part of the section or the south part of this area is in the
13		Spring Unit participating area. The balance of the acreage has
14		been eliminated from the Spring Unit. That's why it's so irregular.
15	Ω	So the odd shape in the northeast corner is due to a dry hole drilled
16		in that acreage?
17	А	Yes.
18	Ω	And the odd shape on the southwest portion is due to a parking
19		area that you explained?
20	A	Yes.
21	Q	Who are the working interest owners in this area?
22	A	Amoco, Phillips, Gulf, Cities Service, and Tosorro.
23	Q	What is the status of Sign-up or Commitment to the unit with
24		regard to the working interest owners?

We have received Tosorro's commitment, actually an executed

09 SIMMS BLDG. # P.O. BOX 1092 * PAONE 243-6691 * ALBUQUEHQUE, NEW MEXICO 87103	CICO 87108
BUQUERQUE, NEV	1216 FIRST NATIONAL BANK BLDG, EAST HALBUQUERQUE, NEW MEXICO 87108
DNE 243-669: • AL	G. EAST .AL.BUO
3. BOX 1092 - PH	ONAL BANK BLD
SIMMS BLDG P.C	1216 FIRST NATIC
ô	

instrument. The other working interest owners have been
contacted several times and have all agreed to the formation
of this unit. The papers are in their offices now being executed.
We have had no turn-downs on it.

- So you would anticipate that in very short order we will have Q all the working interest owners committed?
- Yes, sir.

2

5

б

7

8

9

10

12

12

13

14

15

16

17

18

19

20

21

22

23

24

25

- Is there any particular time contingency we are concerned with in this particular unit, Mr. Anderson?
  - Yes. When the acreage was eliminated or the Springs Unit, I should say, was contracted, this acreage was climinated and has an expiration date of January 1, 1974. That's the majority of the acreage in our outline.

The acreage in the unit has been extended beyond the primary term as a result of having been in a producing unit. So our understanding is that these Federal leases are now completion-type leases and that we will have to have production established prior to January 1, 1974. For this reason, we feel we must start work by November 1 of this year.

- In other words, just commencing operations will not keep the operation together? We have got to drill and complete a well capable of production by January 1, 1974?
- Yes, sir.
- Let's talk about the royalty owners for a minute. Of course, we have the Federal Government as a royalty owner. What is the

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

status of the Federal Government with regard to this unit? 2 We have requested preliminary approval. It's been processed through the USGS office in Roswell to their Denver office. We 3 were in contact with them this morning by phone and advised 5 that they have designated this as a logical area and put the correspondence in the mail October 1. We have not received 6 it, but it's in the mail. 8 Is that what you Land Men sometimes refer to as preliminary 9 approval? Yes, sir. All right, sir. What about the royalty owners under the fee Q tract? What is their status with regard to sign-up? Α We have had, let's see, there were four royalty owners under the fee tracts. We have received a ratification from one of those parties. The other three, we have not heard from. But none of them have refused to execute the Unit Agreement? Q That's correct. All right, sir. Are there any overriding royalty owners under any of this acreage? Yes. There are 20 overriding royalty owners. Α State for the record what the status of that interest commitment Q is. We have received ratifications from ten of them. It would be Α 50 percent, and we have received no rejections.

Would you also anticipate based on your past experience with

25

		PAGE 8
1		exploratory units in this area that you stand a good chance of
2		getting commitments from the remainder of the overriding
3		royalty interest owners?
4	A	Yes. Looking back on the other unit that we formed, I believe
5		that all of them executed. If not, it was a very, very small
6		percent that did not.
7	Ω	All right, sir. Have you indicated on your Exhibit I the
8		approximate location of the initial test well for this unit?
9	Α	Yes, sir.
10	Q	How have you located that, with that red arrow?
11	Α	Yes,
12	Q	Would you give the feetage location of that?
13	A	1980 feet from the north and west lines of Section 26, Township 20
14		South, Range 26 East.
15	Ω	All right, sir. Would you turn your attention now, Mr. Anderson,
16		to what has been identified as Amoco's Exhibit 2? What is that
17		exhibit?
18	Α	This is the Unit Agreement prepared in accordance with the
19		1968 reprint. It's a form suggested by the Federal Government
20		to be used in the forming of exploratory units.
21	Q	So I guess you could refer to that almost as a standard Federal
22		form?
23	Α	Yes, sir.
24	Q	Have there been any changes in this agreement since we mailed

the Oil Commission a copy some several weeks ago?

NEW MEXICO 87103	MEXICO 87108
SIMMS BLDG.+P.O. BOX 1092+PHONE 243-4691+ALBUQUERQUE. NEW MEXICO 87103	1216 FIRST NATIONAL BANK BLDG. EAST HALBUQUERQJE, NEW MEXICO 87108
30X 1092 • PHONE 243	IL BANK BLDG. EAST
SIMMS BLDG. + P.O. E	1216 FIRST NATIONA

25

1	A	No, sir. I don't believe there has been any changes.	
2	Ω	All right, sir. Do you have anything else you'd care to add	
3		in connection with your phase of this hearing, Mr. Anderson?	
4	A	No, sir.	
5		MR. BUELL: That is all we have by way of	
6		direct examination of Mr. Anderson at this time, Mr. Examiner.	
7			
8		CROSS-EXAMINATION_	
9		BY MR. STAMETS:	
10	Q	Mr. Anderson, these questions may not be properly directed to	
11		you, and if not, I'd be happy to ask your next witness. Do you	
12		know what acreage will be dedicated to the proposed well?	
13	A	I believe with the location that's spotted, I don't think that we	
14		have made the decision; but I would think it would be the north	
15		half of Section 26.	
16	Č.	Are you aware that there could be acreage dedication problems	
17		if you would attempt to dedicate less than 320 acres to a well	
18	to be drilled to the Pennsylvanian? For instance, in the southwest		
19		quarter of Section 26 and the southwest half of 27.	
20	Α	Yes, sir. We do.	
21	Ω	This might take a communitization with non-unit acreage?	
22	A	Yes, sir. That acreage, of course, is in the Springs Unit. That's	
23		what we are referring to.	
24		MR. STAMETS: All right, fine. That's all the	

questions I have of this witness.

5

6

7

8

9

10

11

12

13

14

15

16

17

18

20

21

22

23

24

25

MR. BUELL: All right, sir. We'd like to call next Mr. Gaizutis, G-a-i-z-u-t-i-s. Did I get it right?

THE WITNESS: Yes, sir.

### K. J. GAIZUTIS,

was called as a witness, and after being duly sworn, testified as follows:

### DIRECT EXAMINATION

### BY MR. BUELL:

- O Would you state your complete name for the record, please, by whom you are employed and in what capacity and in what location?
- A My name is K. J. Gaizutis. I'm a geologist with Amoco

  Production Company in Houston, Texas; and I've been with
  them for five and a half years.
- Q Mr. Gaizutis, your qualifications as a geologist are a matter of public record in that you have testified before this Commission before?
- 19 A Yes.
  - O But you might briefly just state the depth of your experience in this particular area of Southeast New Mexico.
  - A I've been involved in this particular area for approximately two years and was involved in the sandstone place in the Gulf zone prior to that.
  - O All right, sir. Now, with regard to your testimony let me direct

16

17

18

19

20

21

22

23

24

25

5

your attention first to what has been identified as Amoco's Exhibit 3. What is that exhibit, Mr. Gaizutis? That is a structure map on top of the middle Morrow or the upper clastic sand. It is also an isopachous map constructed

and colored in orange that has overlaid the structure map. The isopach refers to the middle Morrow horizon which we will refer to in the Sections.

Our designation is based on delineating the Morrow into three sections, the upper section being primarily a carbonate and the two lower zones being primarily clastic. This is what would be considered the uppermost clastic section in the Morrow. So we can orient the Examiner, are there any producing pools shown on the area that you have included in your Exhibit 3? Yes. Let me just briefly state that this is approximately northwest of the City of Carlsbad for reference. To the south, we have Catclaw Draw and Golden Eagle, I believe. I don't know if they have been shown. Since the two fields have merged, I don't know for sure what the designation of the over-all pool is now.

I refer to it as Catclaw Draw. To the north and west of our proposed unit, we have McMillan Morrow; and immediately to the south of our unit is the Springs Unit wells out of the Cisco Canyon.

All right, sir. Have you designated our proposed unit area on Exhibit 3?

The outline of the area is placed with flourescent tape, the orange

б

ii

209 SIMMS BLOG. P.C. BOX 1092 PHONE 243-66910-ALBUQUERQUE, NEW MEXICO 87103	1216 FIRST NATIONAL BANK BLOG. EAST-ALBUQUERQUE, NEW MEXICO 87108	

	flourescent tape.
Q	All right, sir. Mr. Anderson previously touched on this in
	his testimony, but I wish you would emphasize again the reason
	for the shape of this unit.
A	Well, to the immediate east of our proposed unit we have two
	dry holes that penetrated the Morrow section, the Skelly well
	in Section 25 of 20, 26, and the Richfield McMillan well in
	Section 36.
Ω	All right, sir. Why do we have the little notch on the northeast
	corner?
$\mathbf{A}$	We have the Pan American Adams Bend dry hole.
Q	All right, sir. Can we see on this Exhibit the outline of the
	older unit that Mr. Anderson referred to?
A	Yes, sir. The older unit is, well, I guess it's a stamped outline.
Q	In blue?
A	In blue, yes.
Q	Of course, where your original tape overlays that, that portion
. <del>Y</del>	also was in the original old unit?
Ą	Right, and cannot be seen because it's under the tape.
Q	All right, sir. Do you have any other remarks you'd like to make
	about Exhibit 3 before we move on to your cross-section?
<b>A</b> '	Well, let me just briefly touch on the geologic importance of
	this. For one, the structural map, the contour lines are 100-foot
	intervals in blue and indicate a structural nose coming approximately
	through our area of interest and extending down into the Catclaw

S MMS BLDG. • P.O. BOX 1092 • PHONE 243-64916 • ALBUQUERQUE, NEW MEXICO 87103 11:13 FIRST NATIONAL BANK BLDG. EAST • ALBUQUERQUE, NEW MEXICO 87108 Draw field to the south.

I have isopached the middle Morrow clastic section and have shown it as a type example of what we are expecting in the area. We show an isopach central contour line going from 70 to 40 feet. However, I want to make note that the Skelly well in Section 25 had 130 feet of Morrow sand.

Immediately to the north, the Pan American well, the Adams Bend, had 35 feet. This is to highlight the stratigraphic variation in the area, and this is what we will be referring to as the pinch-out that we hope to catch production along here.

I think we can refer to the Section AB which I believe is Exhibit--I believe that's Exhibit 4.

4. The AB cross-section is a stratigraphic section which is hung on the top of the Morrow sand, the same horizon that is used for mapping, for structural configuration of the area.

In it, we can see that the Middle Morrow Section which is delineated by lettering, as well as the orange coloration, changes dramatically from a very thick massive sand. Sample logs describe it as a conglomeratic very coarse sand zone to a very thin-type sand at the Adams Bend.

We are going a distance of about a mile. We have approximately three little zones of ten feet, ten feet and five feet in this middle section. So there is an abrupt change between the Skelly No. D and the Pan American Adams Bend. At the same time, let me point out the structural values that are indicated

immediately under the line connecting the top of the Middle Morrow.

The Adams Bend is at minus 6736, and the Skelly well is at 6903, since we have around 200 feet of structural advantage in the updip pinch-out position we were interpreting as a pinch-out. The other objective in the Morrow which we have not highlighted on our Exhibit map that showed the structure and the isopachous is also depicted in this cross-section.

The Skelly well did not penetrate the basin sand or what we call our lower Morrow sand, but it was penetrated in the Kelly Lake McMillan well. In it, we had a good 80 feet of section, also, apparently quite coarse-grained from sample descriptions.

It was not encountered in the Skelly well, but in our well, the Adams Bend well, it was also very thin and about 10 feet of sand. Both of the, or I should say, that zone and a small zone above it were wire-line tested in 1958 and recovered a slight amount of gas and a slight amount of water. We feel now that the water that it recovered was not formation water and that the Skelly well that was drilled in 1970 has in fact pointed out the stratigraphic implications in the area.

Our feeling is that this should threfore be a productive area and possibly continue the McMillan and Morrow projection which is also out of the middle sand which is delineated on the first Exhibit with the orange coloration, should connect that on production in Catclaw Draw that occurs in the middle Morrow sand.

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

Q

SIMMS BLDG. \*P.O. BOX 1092 \*PHONE 243-6691 \*ALEUQUERQUE, NEW MEXICO 87103 (2:6 FIRST NATIONAL BANK BLDG. EAST \*ALEUQUERQUE NEW MEXICO \*\*\*\*\* In addition, we have the basin sand or lower Morrow sand conjective also present. I have not isopached it because of its random character in this area. The middle Morrow tends to have some continuity and some implicit trendology to it. This is a net clean sand that we are referring to.

- Let me ask you this, Mr. Gaizutis. I'm referring now to the Skelly well on the middle log on the cross-section. Why in your opinion was this well not productive when it does have such a massive sand interval?
- A Well, it encountered quite a bit of water on DST's. On the upper DST that tested 10,225 to 300, it recovered 240 feet of gas-cut mud plus on the lower, I'm sorry, on the lower one it recovered 2,000 feet of salt water.

So we feel that even though the lower one recovered salt water, the producing pressures are quite high. 3967 pounds, that is quite a good reservoir. We are looking at shows of gas wet in this well as well as in the McMillan well where it recovered 1700 feet of heavily oil-cut mud and 3500 feet of salt water.

We are looking at downdip wells that are wet with a show of gas and an updip well that is tight and obviously does not have the porosity that was required to make a producer. Our location is a projection along this section at a position where we feel we will catch a productive porous interval.

In other words, you think you will have porosity and also be high enough to be above the water that the Skelly well we have been

NEW MEXICO 87109	MEXICO 87108	
ANS BLOG. F.O. BOX 1092-PHONE 243-6691-ALBCOUERQUE, NEW MEXICO 87109	TERST NATIONAL BANK BLDG. EAST ALBUQUERQUE NEW MEXICO 87108	
4445 BLDG. + P.O. BOX 1092	IL FIRST NATIONAL BANK	

discussing	encountered?
------------	--------------

Α Yes.

2

б

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

Α

Q All right, sir. Do you have any other comments on Exhibit 4 before we pass on to Exhibit 5?

Α No, sir.

Q All right, sir. Would you briefly describe what has been identified as Amoco's Exhibit 5?

Exhibit 5 is a cross-section A-A' which is spotted on the Exhibit 3 Structure Map, and has been identified as A -A' and shown by red lines. The purpose of this cross-section is to show again our Adams Bend well that was tight which is on this cross-section to the extreme left-hand side and to show the production in McMillan field.

The production in McMillan field as you can see is out of a thicker sequence of sand as we have seen in the Skelly well and completed in the Cities Service CJ #1 for five million and completed in the Sohio 1-19 for 33.2 million.

Again, let me point out on this cross-section the structural values that are indicated on top of the middle Morrow sand section, here again implying to us that we have around 200 feet of structural advantage as we go from the Cities Service well to the east to the Adams Bend well to the west that is just north of our unit.

So that wells to the south and to the east, we are dropping off structurally some 200 feet. In this case, we are dropping off

# dearnley, meier & associates

9 SIMMS BLDG. • P.O. BOX 1092 • PHONE 243-6691 • ALBUQUERQUE, NEW MEXICO 87103 1216 FIRST NATIONAL BANK BLDG. EAST • ALBUQUERQUE, NEW MEXICO 87108 to production. To the south, we are dropping off to water, so that we feel part of the answers here, of course, are stratigraphic variability; but it may also be lack of adequate testing in the Skelly well; but we feel that in any event we are going updip to production to the north and east and updip to a wet test to the southeast,

- Q All right, sir. Do you have any other comments on Exhibit 5?
- A No, that's about it.
- Q All right, sir. Let's put Exhibit 6 up on the wall and I'll ask you to very briefly comment on it since it more or less is a cumulative of the work you have shown.
- Exhibit 6 is a cross-section C-C' and it's included for completeness in the area showing the southern boundaries, showing the Morrow control to the south of our proposed interest. As you can see, none of the wells in the Springs Unit drill deep enough to encounter the Morrow section. So our control lies, I'm sorry, one well did drill deep enough.

Most of the control is outside of the Springs Unit on the south. The reason to show this is that our control to the west of the Unit is the Humble Willow Draw well that tested a small zone and recovered 470 mcf of gas and was not tested further. Apparently from our log calculations, it was tight.

This has so served as a reference to the west why we have excluded the acreage in this direction from our unit and to show the reasoning for the isopach variability, too, in that direction

Q

2

3

5

б

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

lower Morrow production within our proposed Bubbling Springs Unit? Yes, I believe they are excellent. Α Q Do you have anything else you would care to add at this time? No. I think that we are looking at an area between two fields Α that in the past have developed, enlarged the Catclaw Draw field in the south ard in the last two years extended to where it's connected to individual producing wells; and I think we will see the same thing happen to the north. in the area. offer Amoco's Exhibits 1 through 6.

I think it's imperative that we do have a well drilled in there to test this hypothesis and to adequately provide reserves

In your opinion, are the prospects good for middle Morrow or

MR. BUELL: May it please the Examiner, that concludes our direct presentation. I would like to formally

MR. STAMETS: Without objection, these exhibits will be admitted into evidence. Are there questions of the witness?

### CROSS-EXAMINATION

### BY MR. STAMETS:

Mr. Gaizutis, looking at your Exhibit 3 here, it would appear that the unit is designed to take into account both the structure and stratigraphy to try and take into the unit everything that would be reasonably productive of gas from the middle Morrow here?

# dearnley, meier & associates

Α

7

8

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

Yes.

LIGG. FT.O. BOX 1042 FT.O.R. 144-8031 ALBUQUENDO.E. NEW MEXICO 87103 131 NATIONAL BANK BLDG. EAST FALBUQUERQUE, NEW MEXICO 87108 MR. STAMETS: Are there any other questions of this witness? He may be excused. Is there anything further?

MR. BUELL: No, sir, Mr. Examiner.

MR. STAMETS: Are there any other appearances in this case? The case will be taken under advisement. We will take about ten minutes for coffee or fifteen maybe.

(Whereupon, the hearing was recessed for fifteen minutes.)

### CERTIFICATE

I, JANET RUSSELL, a Court Reporter, in and for the County of Bernalillo, State of New Mexico, do hereby certify that the foregoing and attached Transcript of Hearing before the New Mexico Oil Conservation Commission was report ', me; and that the same is a true and correct record of the said proceedings to the best of my k wledge, skill and ability.

PURT REPORTER

· •
نه
4
ပ
=
Ä
$\sim$
7.5
SS
Ä
, co
જ
w
& assoc
a,
· ==
He
_
_
5
<b>a</b>
<b>6</b> 5
8
w
7
_

WITNESS,

	3	Page					
	4 Direc	3					
	5 Cross	Cross-Examination by Mr. Stamets					
	6 WITN						
	7						
1	Direct	10					
\$	Cross	Cross-Examination by Mr. Stamets					
10	<b>!</b>						
11							
12	EXHIBITS						
13	Applicant's		Offered	Admitted			
14	Exhibit 1	Acreage outline	18	18			
15	Exhibit 2	Unit Agreement form	18	18			
16	Exhibit 3	Structure map	18	18			
17	Exhibit 4	Map	18	18			
18	Exhibit 5	Map	18	18			
19	Exhibit 6	Мар	18	18			
20							
21	I do hereb	* *************************************					
22	a complete	record of the proceedings	ng is in				
23	the Examiner hearing of Case No. 5070						
24	New Mexico Oil Conservation Commission						
25			<b>∨</b> u				

INDEX



### **Amoco Production Company**

500 Jefferson Building P.O. Box 3092 Houston, Texas 77001

July 16, 1974

Re: EA 47,155

Bubbling Spring Unit Eddy County, New Mexico

New Mexico Oil Conservation Commission P. O. Box 2088 Santa Fe, NM 87501

### Gentlemen:

Please refer to your Case No. 5070, Order No. R-4643, wherein you approved the Bubbling Spring Unit. We wish to advise that the Bubbling Spring Unit Well No. 1 was drilled to a total depth of 10,400 feet and was plugged and abandoned on January 28, 1974. Amoco Production Company and the other Working Interest Owners elected not to drill any additional tests within the Unit Area and requested that the USGS terminate the unit agreement. For your files, we attached a letter dated July 5, 1974, from the USGS wherein the Bubbling Spring Unit was terminated effective July 1, 1974.

Yours truly,

Jack D. Anderson

JDA/mct 2/4012



Amoco Production Company

500 Jefferson Building P.O. Box 3092 Houston, Texas 77001

5070

November 29, 1973

Re: EA 47,155 Bubbling Spring Unit Eddy County, New Mexico

New Mexico Oil and Gas Conservation Commission P. O. Box 3088Santa Fe, New Mexico 87501

Gentlemen:

For your files we enclose one copy of Exhibit "B" to the Bubbling Spring Unit, which was revised effective October 29, 1973. By your Order No. R-4643, you approved the Bubbling Spring Unit effective October 11, 1973.

Yours truly

ack D. Anderson Land Department

JDA/mct 4/991

Enclosure



## United States Department of the Interior

GEOLOGICAL SURVEY

Drawer 1857 Roswell, New Mexico 88201 OIL CONSERVATION COMM

October 31, 1973

Amoco Production Company Attention: Mr. C. N. Henninger P. O. Box 3092 Houston, Texas 77001

Gentlemen:

The Bubbling Spring unit agreement, Eddy County, New Mexico, was approved on October 31, 1973. The agreement has been designated No. 14-08-0001-13805 and is effective as of the date of approval.

Enclosed are two copies of the approved agreement. We request that you furnish the New Mexico Oil Conservation Commission and any other interested principals with appropriate evidence of this approval.

Sincerely yours,

(CRIG. SGD.) CAT

CARL C. TRAYWICK Acting Area Oil and Gas Supervisor

cc:

Area Geologist (ltr. only)
N.M.O.C.C., Santa Fe (ltr. only)
Artesia (w/cy approved agr.)

REShook: 1h



# **Amoco Production Company**

500 Jefferson Building P.O. Box 3092 Houston, Texas 77001

November 2, 1973

Re: EA 47155

Bubbling Spring Unit Eddy County, New Mexico

The Oil Conservation Commission State of New Mexico P. O. Box 2088 Santa Fe, New Mexico 87501

Gentlemen:

By your Order No. R-4643, you approved the Bubbling Spring Unit Agreement on October 11, 1973. Enclosed for your file is one copy of the Unit Agreement executed by Amoco Production Company the Other working interest owners. Also enclosed is copy of letter dated October 31, 1973, from the U.S. Geological Survey October 31, 1973.

Thank you very much for your cooperation in the formation of this exploratory unit.

Yours truly,

Jack D. Anderson Land Department

JDA/rl 5/827

Enclosures

### CERTIFICATION--DETERMINATION

Pursuant to the authority vested in the Secretary of Interior, under the act approved February 25, 1920, 41 Stat. 437, as amended, 30 U. S. C. secs. 181, et seq., and delegated to the Area Oil and Gas Supervisors of the Geological Survey, I do hereby:

- A. Approve the attached agreement for the development and operation of the Bubbling Spring Unit Area, State of New Mexico.
- B. Certify and determine that the unit plan of development and operation contemplated in the attached agreement is necessary and advisable in the public interest for the purpose of more properly conserving the natural resources.
- C. Certify and determine that the drilling, producing, rental, minimum royalty, and royalty requirements of all Federal leases committed to said agreement are hereby established, altered, changed, or revoked to conform with the terms and conditions of this agreement.

	Dated		 •
$\mathcal{I}_{1}=\mathcal{I}_{2}$			
		•	Area Oil and Gas Supervisor
			United States Geological Survey
:			
ntract N	lumher		

# UNIT AGREEMENT FOR THE DEVELOPMENT AND OPERATION OF THE BUBBLING SPRING UNIT AREA COUNTY OF EDDY, STATE OF NEW MEXICO

## INDEX

Section	Title	Page
_	Preliminary Recitals	1 ·
1	ENABLING ACT AND REGULATIONS	2
2 3	UNIT AREA	2 2 5 5 6
3 4	UNITIZED LAND AND UNITIZED SUBSTANCES UNIT OPERATOR	5
,5	RESIGNATION OF REMOVAL OF UNIT OPERATOR	6
6	SUCCESSOR UNIT OPERATOR	7
ž	ACCOUNTING PROVISIONS AND UNIT OPERATING AGREEMENT	8
8	RIGHTS AND OBLIGATIONS OF UNIT OPERATOR	8
9	DRILLING TO DISCOVERY	9
10	PLAN OF FURTHER DEVELOPMENT AND OPERATION	10
11	PARTICIPATION AFTER DISCOVERY	11
12	ALLOCATION OF PRODUCTION.	13
13	DEVELOPMENT OR OPERATION OF NON-PARTICIPATING	3.4
1.4	LAND OR FORMATIONS	14 15
14 15	ROYALTY SETTLEMENT RENTAL SETTLEMENT	16
16	CONSERVATION	17
17	DRAINAGE	17
18	LEASES AND CONTRACTS CONFORMED AND EXTENDED	17
19	COVENANTS RUN WITH LAND	20
20	EFFECTIVE DATE AND TERM	21
21	RATE OF PROSPECTING, DEVELOPMENT AND PRODUCTION	22
22	APPEARANCES .	22
23	NOTICES	23
24	NO WAIVER OF CERTAIN RIGHTS	. 23
25	UNAVOIDABLE DELAY	23
26	NONDISCRIMINATION	24 24
27 28	LOSS OF TITLE NON-JOINDER AND SUBSEQUENT JOINDER	24 24
28 29	COUNTERPARTS	25
30	SURRENDER	26
31	TAXES	27
32	NO PARTNERSHIP	28
33	SURFACE MANAGEMENT STIPULATION	28
34	RECLAMATION LANDS	28
		•
•	Exhibit "A" (Map)	

Exhibit "B" (Description of interests subject to agreement)

į	UNIT AGREEMENT
2	FOR THE DEVELOPMENT AND OPERATION
3	OF THE
4	BUBBLING SPRING UNIT AREA
5	COUNTY OF EDDY
6	STATE OF NEW MEXICO
7	NO
8	THIS AGREEMENT, entered into as of the <u>lst</u> day of
9	August , 19 73 , by and between the parties subscribing.
10	ratifying, or consenting hereto, and herein referred to as the "parties
11	hereto,"
12	WITNESSETH:
13	WHEREAS the parties hereto are the owners of working, royalty,
14	or other oil and gas interests in the unit area subject to this agree-
15	ment; and
16	WHEREAS the Mineral Leasing Act of February 25, 1920, 41 Stat.
17	437, as amended, 30 U.S.C. Secs. 181 et seq., authorizes Federal lessees
18	and their representatives to unite with each other, or jointly or separately
19	with others, in collectively adopting and operating a cooperative or unit
20	plan of development or operation of any oil or gas pool, field, or like
21	area, or any part thereof for the purpose of more properly conserving
22	the natural resources thereof whenever determined and certified by the
23	Secretary of the Interior to be necessary or advisable in the public
24	interest; and
25	WHEREAS the Oil Conservation Commission of the State of New
26	Mexico is authorized by an Act of the Legislature (Chapter 72, Laws of
27	1935, as amended by Chapter 193, Laws of 1937; Chapter 166, Laws of
.28	1941; and Chapter 168, Laws of 1949) to approve this agreement and the
29	conservation provisions hereof; and
30	WHEREAS the parties hereto hold sufficient interests in the
31	Bubbling Spring Unit Area covering the land hereinafter described
32	to give reasonably effective control of operations therein; and

WHEREAS, it is the purpose of the parties hereto to conserve natural resources, prevent waste, and secure other benefits obtainable through development and operation of the area subject to this agreement under the terms, conditions, and limitations herein set forth;

. 30

NOW, THEREFORE, in consideration of the premises and the promises herein contained, the parties hereto commit to this agreement their respective interests in the below-defined unit area, and agree severally among themselves as follows:

- 1. ENABLING ACT AND REGULATIONS. The Mineral Leasing Act of February 25, 1920, as amended, supra, and all valid pertinent regulations, including operating and unit plan regulations, heretofore issued thereunder or valid, pertinent, and reasonable regulations hereafter issued thereunder are accepted and made a part of this agreement as to Federal lands, provided such regulations are not inconsistent with the terms of this agreement; and as to non-Federal lands, the oil and gas operating regulations in effect as of the effective date hereof governing drilling and producing operations, not inconsistent with the terms hereof or the laws of the State in which the non-Federal land is located, are hereby accepted and made a part of this agreement.
- 2. UNIT AREA. The area specified on the map attached hereto marked Exhibit "A" is hereby designated and recognized as constituting the unit area, containing 3,078.12 acres, more or less.

Exhibit "A" shows, in addition to the boundary of the unit area, the boundaries and identity of tracts and leases in said area to the extent known to the Unit Operator. Exhibit "B" attached hereto is a schedule showing to the extent known to the Unit Operator the acreage, percentage, and kind of ownership of oil and gas interests in all land in the unit area. However, nothing herein or in said schedule or map shall be construed as a representation by any party hereto as to the ownership of any interest other than such interest or interests as are shown in said map or schedule as owned by such party. Exhibits "A"

and "B" shall be revised by the Unit Operator whenever changes in the unit area render such revision necessary, or when requested by the Oil and Gas Supervisor, hereinafter referred to as "Supervisor" and not less than five copies of the revised exhibits shall be filed with the Supervisor and one copy with the Mexico Oil Conservation Commission, hereinafter referred to as "State Commission".

-10

The above-described unit area shall when practicable be expanded to include therein any additional lands or shall be contracted to exclude lands whenever such expansion or contraction is deemed to be necessary or advisable to conform with the purposes of this agreement. Such expansion or contraction shall be effected in the following manner:

- (a) Unit Operator, on its own motion or on demand of the Director of the Geological Survey, hereinafter referred to as "Director", after preliminary concurrence by the Director, shall prepare a notice of proposed expansion or contraction describing the contemplated changes in the boundaries of the unit area, the reasons therefor, and the proposed effective date thereof, preferably the first day of a month subsequent to the date of notice.
- (b) Said notice shall be delivered to the Supervisor, and the State Commission and copies thereof mailed to the last known address of each working interest owner, lessee, and lessor whose interests are affected, advising that 30 days will be allowed for submission to the Unit Operator of any objections.
- (c) Upon expiration of the 30-day period provided in the preceding item (b) hereof, Unit Operator shall file with the Supervisor and the State Commission evidence of mailing of the notice of expansion or contraction and a copy of any objections thereto which have been filed with the Unit Operator, together with an application in sufficient number, for approval of such expansion or contraction and with appropriate joinders.
- (d) After due consideration of all pertinent information, the

(e) All legal subdivisions of lands (i.e., 40 acres by Government survey or its nearest lot or tract equivalent; in instances of irregular surveys unusually large lets or tracts shall be considered in multiples of 40 acres or the nearest aliquot equivalent thereof), no parts of which are entitled to be in a participating area on or before the fifth anniversary of the effective date of the first initial participating area established under this unit agreement, shall be eliminated automatically from this agreement, effective as of said fifth anniversary, and such lands shall no longer be a part of the unit area and shall no longer be subject to this agreement, unless diligent drilling operations are in progress on unitized lands not entitled to participation on said fifth anniversary, in which event all such lands shall remain subject hereto for so long as such drilling operations are continued diligently, with not more than 90 days' time elapsing between the completion of one such well and the commencement of the next such well. All legal subdivisions of lands not entitled to be in a participating area within 10 years after the effective date of the first initial participating area approved under this agreement shall be automatically eliminated from this agreement as of said tenth anniversary. All lands proved productive by diligent drilling operations after the aforesaid 5-year period shall become participating in the same manner as during said 5-year period. However, when such diligent drilling operations cease, all nonparticipating lands shall be automatically eliminated effective as of the 91st day thereafter. The unit operator shall within 90 days after the effective date of any elimination hereunder, describe the area so eliminated

-4.

2

3

5

6

7

9

10

11

12

13

14

15

16

17 18

19

20

21

22

23

24

25 -

26

27. 28

29

30

.31

. 27

to the satisfaction of the Supervisor and promptly notify all parties in interest.

If conditions warrant extension of the 10-year period specified in this subsection 2(e), a single extension of not to exceed 2 years may be accomplished by consent of the owners of 90% of the working interests in the current non-participating unitized lands and the owners of 60% of the basic royalty interests (exclusive of the basic royalty interests of the United States) in nonparticipating unitized lands with approval of the Director, provided such extension application is submitted to the Director not later than 60 days prior to the expiration of said 10-year period.

Any expansion of the unit area pursuant to this section which embraces lands theretofore eliminated pursuant to this subsection 2(e) shall not be considered automatic commitment or recommitment of such lands.

- 3. UNITIZED LAND AND UNITIZED SUBSTANCES. All land committed to this agreement shall constitute land referred to herein as "unitized land" or "land subject to this agreement." All oil and gas in any and all formations of the unitized land are unitized under the terms of this agreement and herein are called "unitized substances."
- 4. UNIT OPERATOR. Amoco Production Company is hereby designated as Unit Operator and by signature hereto as Unit Operator agrees and consents to accept the duties and obligations of Unit Operator for the discovery, development, and production of unitized substances as herein provided. Whenever reference is made herein to the Unit Operator, such reference means the Unit Operator acting in that capacity and not as an owner of interest in unitized substances, and the term "working"

interest owner" when used herein shall include or refer to Unit Operator as the owner of a working interest when such an interest is owned by it.

19 .

5. RESIGNATION OR REMOVAL OF UNIT OPERATOR. Unit Operator shall have the right to resign at any time prior to the establishment of a participating area or areas hereunder, but such resignation shall not become effective so as to release Unit Operator from the duties and obligations of Unit Operator and terminate Unit Operator's rights as such for a period of 6 months after notice of intention to resign has been served by Unit Operator on all working interest owners and the Supervisor, and until all wells then drilled hereunder are placed in a satisfactory condition for suspension or abandonment whichever is required by the Supervisor, unless a new Unit Operator shall have been selected and approved and shall have taken over and assumed the duties and obligations of Unit Operator prior to the expiration of said period.

Unit Operator shall have the right to resign in like manner and subject to like limitations as above provided at any time a participating area established hereunder is in existence, but, in all instances of resignation or removal, until a successor unit operator is selected and approved as hereinafter provided, the working interest owners shall be jointly responsible for performance of the duties of unit operator, and shall not later than 30 days before such resignation or removal becomes affective appoint a common agent to represent them in any action to be taken hereunder.

The resignation of Unit Operator shall not release Unit Operator from any liability for any default by it hereunder occurring prior to the effective date of its resignation.

The Unit Operator may, upon default or failure in the performance of its duties or obligations hereunder, be subject to removal by the same percentage vote of the owners of working interests as herein provided for the selection of a new Unit Operator. Such removal shall be effective upon notice thereof to the Supervisor.

The resignation or removal of Unit Operator under this agreement shall not terminate its right, title, or interest as the owner of a working interest or other interest in unitized substances, but upon the resignation or removal of Unit Operator becoming effective, such Unit Operator shall deliver possession of all wells, equipment, materials, and appurtenances used in conducting the unit operations to the new duly qualified successor Unit Operator or to the common agent, if no such new Unit Operator is elected, to be used for the purpose of conducting unit operations hereunder. Nothing herein shall be construed as authorizing removal of any material, equipment and appurtenances needed for the preservation of any wells.

19.

25.

tender his or its resignation as Unit Operator or shall be removed as hereinabove provided, or a change of Unit Operator is negotiated by working interest owners, the owners of the working interests in the participating area or areas according to their respective acreage interests in such participating area or areas, or, until a participating area shall have been established, the owners of the working interest according to their respective acreage interests in all unitized land, shall by majority vote select a successor Unit Operator: Provided, That, if a majority but less than 75 percent of the working interests qualified to vote are owned by one party to this agreement, a concurring vote of one or more additional working interest owners shall be required to select a new operator. Such selection shall not become effective until:

- (a) A Unit Operator so selected shall accept in writing the duties and responsibilities of Unit Operator, and
- (b) The selection shall have been approved :/ the Supervisor.

If no successor Unit Operator is selected and qualified as herein provided, the Director at his election may declare this unit agreement terminated.

7. ACCOUNTING PROVISIONS AND UNIT OPERATING AGREEMENT. If the Unit Operator is not the sole owner of working interests, costs and expenses incurred by Unit Operator in conducting unit operations hereunder shall be paid and apportioned among and horne by the owners of working interests, all in accordance with the agreement or agreements entered into by and between the Unit Operator and the owners of working interests, whether one or more, separately or collectively. Any agreement or agreements entered into between the working interest owners and the Unit Operator as provided in this section, whether one or more, are herein referred to as the "unit operating agreement." Such unit operating agreement shall also provide the manner in which the working interest owners shall be entitled to receive their respective proportionate and allocated share of the benefits accruing hereto in conformity with their underlying operating agreements, leases, or other independent contracts, and such other rights and obligations as between Unit Operator and the working interest owners as may be agreed upon by Unit Operator and the working interest owners; however, no such unit operating agreement shall be deemed either to modify any of the terms and conditions of this unit agreement or to relieve the Unit Operator of any right or obligation established under this unit agreement, and in case of any inconsistency or conflict between this unit agreement and the unit operating agreement, this unit agreement shall govern. Three true copies of any unit operating agreement executed pursuant to this section should be filed with the Supervisor, prior to approval of this unit agreement.

26 27

28

29

30

3

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

8. RIGHTS AND OBLIGATIONS OF UNIT OPERATOR. Except as otherwise specifically provided herein, the exclusive right, privilege, and duty of exercising any and all rights of the parties hereto which are necessary or convenient for prospecting for, producing, storing, allocating, and distributing the unitized substances are hereby deligated to and shall

be exercised by the Unit Operator as herein provided. Acceptable evidence of title to said rights shall be deposited with said Unit Operator and, together with this agreement, shall constitute and define the rights, privileges, and obligations of Unit Operator. Nothing herein, however, shall be construed to transfer title to any land or to any lease or operating agreement, it being understood that under this agreement the Unit Operator, in its capacity as Unit Operator, shall exercise the rights of possession and use vested in the parties hereto only for the purposes herein specified.

2

3

4.

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

9. DRILLING TO DISCOVERY. Within 6 months after the effective date hereof, the Unit Operator shall begin to drill an adequate test well at a location approved by the Supervisor, if on Federal land, unless on such effective date a well is being drilled conformably with the terms hereof, and thereafter continue such drilling diligently until all of the formations of Pennsylvanian Age have been tested or until at a lessor depth unitized substances shall be discovered which can be produced in paying quantities (to wit: quantities sufficient to repay the costs of drilling, completing, and producing operations, with a reasonable profit) or the Unit Operator shall at any time establish to the satisfaction of the Supervisor, if on Federal land, that further drilling of said well would be unwarranted or impracticable, provided, however, that Unit Operator shall not in any event be required to drill said well to a depth in excess of 10,400 feet. Until the discovery of a deposit of unitized substances capable of being produced in paying quantities, the Unit Operator shall continue drilling diligently one well at a time, allowing not more than 6 months between the completion of one well and the beginning of the next well, until a well capable of producing unitized substances in paying quantities is completed to the satisfaction of said Supervisor, if it be on Federal land, or until it is reasonably proved that the unitized land is incapable of producing unitized substances in paying quantities in the formations drilled hereunder. Nothing in this

section shall be deemed to limit the right of the Unit Operator to resign as provided in Section 5, hereof, or as requiring Unit Operator to commence or continue any drilling during the period pending such resignation becoming effective in order to comply with the requirements of this section. The Supervisor may modify the drilling requirements of this section by granting reasonable extensions of time when, in his opinion, such action is warranted.

Upon failure to commence any well provided for in this section within the time allowed, including any extension of time granted by the Supervisor, this agreement will automatically terminate; upon failure to continue drilling diligently any well commenced hereunder, the Supervisor may, after 15-days' notice to the Unit Operator, declare this unit agreement terminated.

after completion of a well capable of producing unitized substances in paying quantities, the Unit Operator shall submit for the approval of the Supervisor an acceptable plan of development and operation for the unitized land which, when approved by the Supervisor, shall constitute the further drilling and operating obligations of the Unit Operator under this agreement for the period specified therein. Thereafter, from time to time before the expiration of any existing plan, the Unit Operator shall submit for the approval of the Supervisor a plan for an additional specified period for the development and operation of the unitized land.

Any plan submitted pursuant to this section shall provide for the exploration of the unitized area and for the diligent drilling necessary for determination of the area or areas thereof capable of producing unitized substances in paying quantities in each and every productive formation and shall be as complete and adequate as the Supervisor may determine to be necessary for timely development and proper conservation of the oil and gas resources of the unitized area and shall:

- (a) specify the number and locations of any wells to be drilled and the proposed order and time for such drilling; and
- (b) to the extent practicable specify the operating practices regarded as necessary and advisable for proper conservation of natural resources.

Separate plans may be submitted for separate productive zones, subject to the approval of the Supervisor.

25.

Plans shall be modified or supplemented when necessary to meet changed conditions or to protect the interests of all parties to this agreement. Reasonable diligence shall be exercised in complying with the obligations of the approved plan of development. The Supervisor is authorized to grant a reasonable extension of the 6-month period herein prescribed for submission of an initial plan of development where such action is justified because of unusual conditions or circumstances. After completion hereunder of a well capable of producing any unitized substance in paying quantities, no further wells, except such as may be necessary to afford protection against operations not under this agreement and such as may be specifically approved by the Supervisor, shall be drilled except in accordance with a plan of development approved as herein provided.

11. PARTICIPATION AFTER DISCOVERY. Upon completion of a well capable of producing unitized substances in paying quantities or as soon thereafter as required by the Supervisor, the Unit Operator shall submit for approval by the Supervisor a schedule, based on subdivisions of the public-land survey or aliquot parts thereof, of all land then regarded as reasonably proved to be productive in paying quantities; all lands in said schedule on approval of the Supervisor to constitute a participating area, effective as of the date of completion of such well or the effective date of this unit agreement, whichever is later. The acreages of both Federal and non-Federal lands shall be based upon appropriate computations from the courses and distances shown on the last approved public-land

survey as of the effective date of each initial participating area. Said schedule shall also set forth the percentage of unitized substances to be allocated as herein provided to each tract in the participating area so established, and shall govern the allocation of production commencing with the effective date of the participating area. A separate participating area shall be established for each separate pool or deposit of unitized substances or for any group thereof which is produced as a single pool or zone, and any two/or more participating areas so established may be combined into one, on approval of the Supervisor. When production from two or more participating areas, so established, is subsequently found to be from a common pool or deposit said participating areas shall be combined into one effective as of such appropriate date as may be approved or prescribed by the Supervisor. The participating area or areas so established shall be revised from time to time, subject to like approval, to include additional land then regarded as reasonably proved to be productive in paying quantities or necessary for unit operations, or to exclude land then regarded as reasonably proved not to be productive in paying quantities and the schedule of allocation percentages shall be revised accordingly. The effective date of any revision shall be the first of the month in which is obtained the knowledge or information on which such revision is predicated, provided, however, that a more appropriate effective date may be used if justified by the Unit Operator and approved by the Supervisor. No land shall be excluded from a participating area on account of depletion of the unitized substances, except that any participating area established under the provisions of the Junit agreement shall terminate automatically whenever all completions in the formation on which the participating area is based are abandoned.

2

3

5

6 .

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26.

27

28

29

30

31

It is the intent of this section that a participating area shall represent the area known or reasonably estimated to be productive in paying quantities; but, regardless of any revision of the participating area, nothing herein contained shall be construed as requiring any retroactive

adjustment for production obtained prior to the effective date of the revision of the participating area.

In the absence of agreement at any time between the Unit Operator and the Supervisor as to the proper definition or redefinition of a participating area, or until a participating area has, or areas have, teen established as provided herein, the portion of all payments affected thereby shall be impounded in a manner mutually acceptable to the owners of working interests and the Supervisor. Royalties due the United States shall be determined by the Supervisor and the amount thereof shall be deposited, as directed by the Supervisor, to be held as unearned money until a participating area is finally approved and then applied as earned or returned in accordance with a determination of the sum due as Federal royalty on the basis of such approved participating area.

Whenever it is determined, subject to the approval of the Supervisor, that a well drilled under this agreement is not capable of production in paying quantities and inclusion of the land on which it is situated in a participating area is unwarranted, production from such well shall, for the purposes of settlement among all parties other than working interest owners, be allocated to the land on which the well is located unless such land is already within the participating area established for the pool or deposit from which such production is obtained. Settlement for working interest benefits from such a well shall be made as provided in the unit operating agreement.

12. ALLOCATION OF PRODUCTION. All unitized substances produced from each participating area established under this agreement, except any part thereof used in conformity with good operating practices within the unitized area for drilling, operating, camp and other production or development purposes, for repressuring or recycling in accordance with a plan of development approved by the Supervisor, or unavoidably lost, shall be deemed to be produced equally on an acreage basis from the several tracts of unitized land of the participating area established

for such production and, for the purpose of determining any benefits accruing under this agreement, each such tract of unitized land shall have allocated to it such percentage of said production as the number of acres of such tract included in said participating area bears to the total acres of unitized land in said participating area, except that allocation of production hereunder for purposes other than for settlement of the royalty, overriding royalty, or payment out of production obligations of the respective working interest owners, shall be on the basis prescribed in the unit operating agreement whether in conformity with the basis of allocation herein set forth or otherwise. It is hereby agreed that production of unitized substances from a participating area shall be allocated as provided herein regardless of whether any wells are drilled on any particular part or tract of said participating area. If any gas produced from one participating area is used for repressuring or recycling purposes in another participating area, the first gas withdrawn from such last-mentioned participating area for sale during the life of this agreement shall be considered to be the gas so transferred until an amount equal to that transferred shall be so produced for sale and such gas shall be allocated to the participating area from which initially produced as such area was last defined at the time of such final production.

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

. 30

31

13. DEVELOPMENT OR OPERATION OF NON-PARTICIPATING LAND OR FORMATIONS. Any party hereto owning or controlling the working interest in any unitized land having thereon a regular well location may with the approval of the Supervisor, at such party's sole risk, costs, and expense, drill a well to test any formation for which a participating area has not been established or to test any formation for which a participating area has been established if such location is not within said participating area, unless within 90 days of receipt of notice from said party of his intention to drill the well the Unit Operator elects and commences to drill such a well in like manner as other wells are drilled by the Unit Operator under this agreement.

If any well drilled as aforesaid by a working interest owner results in production such that the land upon which it is situated may properly be included in a participating area, such participating area shall be established or enlarged as provided in this agreement and the well shall thereafter be operated by the Unit Operator in accordance with the terms of this agreement and the unit operating agreement.

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

. 27

28

29

30

31

If any well drilled as aforesaid by a working interest owner obtains production in quantities insufficient to justify the inclusion of the land upon which such well is situated in a participating area, such well may be operated and produced by the party drilling the same subject to the conservation requirements of this agreement. The royalties in amount or value of production from any such well shall be paid as specified in the underlying lease and agreements affected.

14. ROYALTY SETTLEMENT. The United States and any State and any royalty owner who, is entitled to take in kind a share of the substances now unitized hereunder shall hereafter be entitled to the right to take in kind its share of the unitized substances, and Unit Operator, or the working interest owner in case of the operation of a well by a working interest owner as herein provided for in special cases, shall make deliveries of such royalty share taken in kind in conformity with the applicable contracts, laws, and regulations. Settlement for royalty interest not taken in kind shall be made by working interest owners responsible therefor under existing contracts, laws and regulations, or by the Unit Operator on or before the last day of each month for unitized substances produced during the preceding calendar month; provided, however, that nothing herein contained shall operate to relieve the lessees of any land from their respective lease obligations for the payment of any royalties due under their leases.

If gas obtained from lands not subject to this agreement is introduced into any participating area hereunder, for use in repressuring, stimulation of production, or increasing ultimate recovery, in

conformity with a plan of operations approved by the Supervisor, a like amount of gas, after settlement as herein provided for any gas transferred from any other participating area and with appropriate deduction for loss from any cause, may be withdrawn from the formation into which the gas is introduced, royalty free as to dry gas, but not as to any products which may be extracted therefrom; provided that such withdrawal shall be at such time as may be provided in the approved plan of operations or as may otherwise be consented to by the Supervisor as conforming to good petroleum engineering practice; and provided further, that such right of withdrawal shall terminate on the termination of this unit agreement.

6.

Royalty due the United States shall be computed as provided in the operating regulations and paid in value or delivered in kind as to all unitized substances on the basis of the amounts thereof allocated to unitized Federal land as provided herein at the rates specified in the respective Federal leases, or at such lower rate or rates as may be authorized by law or regulation; provided, that for leases on which the royalty rate depends on the daily average production per well, said average production shall be determined in accordance with the operating regulations as though each participating area were a single consolidated lease.

Royalty due as to non-Federal lands under the respective leases shall be computed and paid on the basis of all unitized substances allocated to such lands hereunder.

15. RENTAL SETTLEMENT. Rental or minimum royalties due on leases committed hereto shall be paid by working interest owners responsible therefor under existing contracts, laws, and regulations, provided that nothing herein contained shall operate to relieve the lessees of any land from their respective lease obligations for the payment of any rental or minimum royalty due under their leases. Rental or minimum royalty for lands of the United States subject to this agreement shall be paid at the rate specified in the respective leases from the United

States unless such rental or minimum royalty is waived, suspended, or reduced by law or by approval of the Secretary or his duly authorized representative.

1.9

With respect to any lease on non-Federal land containing provisions which would terminate such lease unless drilling operations are commenced upon the land covered thereby within the time therein specified or rentals are paid for the privilege of deferring such drilling operations, the rentals required thereby shall, notwithstanding any other provision of this agreement, be deemed to accrue and become payable during the term thereof as extended by this agreement and until the required drilling operations are commenced upon the land covered thereby or until some portion of such land is included within a participating area.

- 16. CONSERVATION. Operations hereunder and production of unitized substances shall be conducted to provide for the most economical and efficient recovery of said substances without waste, as defined by or pursuant to State or Federal law or regulation.
- 17. DRAINAGE, The Unit Operator shall take such measures as the Supervisor deems appropriate and adequate to prevent drainage of unitized substances from unitized land by wells on land not subject to this agreement.
- 18. LEASES AND CONTRACTS CONFORMED AND EXTENDED. The terms, conditions, and provisions of all leases, subleases, and other contracts relating to exploration, drilling, development, or operation for oil or gas on lands committed to this agreement are hereby expressly modified and amended to the extent necessary to make the same conform to the provisions hereof, but otherwise to remain in full force and effect; and the parties hereto hereby consent that the Secretary or to Federal leases

shall and by his approval hereof, or by the approval hereof by his duly authorized representative, does hereby establish, alter, change, or revoke the drilling, producing, rental, minimum royalty, and royalty requirements of Federal leases committed hereto and the regulations in respect thereto to conform said requirements to the provisions of this agreement, and, without limiting the generality of the foregoing, all leases, subleases, and contracts are particularly modified in accordance with the following:

- (a) The development and operation of lands subject to this agreement under the terms hereof shall be deemed full performance of all obligations for development and operation with respect to each and every separately owned tract subject to this agreement, regardless of whether there is any development of any particular tract of the unit area.
- (b) Drilling and producing operations performed hereunder upon any tract of unitized lands will be accepted and deemed to be performed upon and for the benefit of each and every tract of unitized land, and no lease shall be deemed to expire by reason of failure to drill or produce wells situated on the land therein embraced.
- (c) Suspension of drilling or producing operations on all unitized lands pursuant to direction or consent of the Secretary or his duly authorized representative shall be deemed to constitute such suspension pursuant to such direction or consent as to each and every tract of unitized land. A suspension of drilling or producing operations limited to specified lands shall be applicable only to such lands.
- (d) Each lease, sublease or contract relating to the exploration, drilling, development or operation for oil or gas of lands other than those of the United States committed to this agreement, which, by its terms might expire prior to the

termination of this agreement, is hereby extended beyond any such terms so provided therein so that it shall be continued in full force and effect for and during the term of this agreement.

6

7

8

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

- (e) Any Federal lease for a fixed term of twenty (20) years or any renewal thereof or any part of such lease which is made subject to this agreement shall continue in force beyond the term provided therein until the termination hereof. Any other Federal lease committed hereto shall continue in force beyond the term so provided therein or by law as to the land committed so long as such lease remains subject hereto, provided that production is had in paying quantities under this unit agreement prior to the expiration date of the term of such lease, or in the event actual drilling operations are commenced on unitized land, in accordance with the provisions of this agreement, prior to the end of the primary term of such lease and are being diligently prosecuted at that time, such lease shall be extended for two years and so long thereafter as oil or gas is produced in paying quantities in accordance with the provisions of the Mineral Leasing Act Revision of 1960.
- (f) Each sublease or contract relating to the operation and development of unitized substances from lands of the United States committed to this agreement, which by its terms would expire prior to the time at which the underlying lease, as extended by the immediately preceding paragraph, will expire, is hereby extended beyond any such term so provided therein so that it shall be continued in full force and effect for and during the term of the underlying lease as such term is herein extended.

(g) The segregation of any Federal lease committed to this 2 agreement is governed by the following provision in the 3 fourth paragraph of Sec. 17(j) of the Mineral Leasing Act, as amended by the Act of September 2, 1960 (74 Stat. 781-784): "Any [rederal] lease heretofore or hereafter committed to any such [unit] plan embracing lands that are in part within and in part outside of the area covered by any 8 such plan shall be segregated into separate leases as to 9 the lands committed and the lands not committed as of the 10 effective date of unitization: Provided, however, That 11 any such lease as to the nonunitized portion shall continue 12 in force and effect for the term thereof but for not 13 less than two years from the date of such segregation and 14 so long thereafter as oil or gas is produced in paying 15 quantities." 16

17

18

19

20

21

22

23

24

25

26

- (h) Any lease, other than a Federal lease, having only a portion of its lands committed hereto shall be segregated as to the portion committed and the portion not committed, and the provisions of such lease shall apply separately to such segregated portions commencing as of the effective date hereof. In the event any such lease provides for a lump-sum rental payment, such payment shall be prorated between the portions so segregated in proportion to the acreage of the respective tracts.
- 19. COVENANTS RUN WITH LAND. The covenants herein shall be construed to be covenants running with the land with respect to the interest of the parties hereto and their successors in interest until this agreement terminates, and any grant, transfer, or conveyance, of interest in

land or leases subject hereto shall be and hereby is conditioned upon the assumption of all privileges and obligations hereunder by the grantee, transferree, or other successor in interest. No assignment or transfer of any working interest, royalty, or other interest subject hereto shall be binding upon Unit Operator until the first day of the calendar month after Unit Operator is furnished with the original, photostatic, or certified copy of the instrument of transfer.

- 20. EFFECTIVE DATE AND TERM. This agreement shall become effective upon approval by the Secretary or his duly authorized representative and shall terminate five (5) years from said effective date unless:
  - (a) such date of expiration is extended by the Director, or
  - (b) it is reasonably determined prior to the expiration of the fixed term or any extension thereof that the unitized land is incapable of production of unitized substances in paying quantities in the formations tested hereunder and after notice of intention to terminate the agreement on such ground is given by the Unit Operator to all parties in interest at their last known addresses, the agreement is terminated with the approval of the Supervisor, or
  - (c) a valuable discovery of unitized substances has been made or accepted on unitized land during said initial term or any extension thereof, in which event the agreement shall remain in effect for such term and so long as unitized substances can be produced in quantities sufficient to pay for the cost of producing same from wells on unitized land within any participating area established hereunder and, should production cease, so long thereafter as liligent operations are in progress for the restoration of production or discovery of new production and so long thereafter as unitized substances so discovered can be produced as aforesaid, or
  - it is terminated as heretofore provided in this agreement.

3

5

6

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

This agreement may be terminated at any time by not less than 75 percentum, on an acreage basis, of the working interest owners signatory hereto, with the approval of the Supervisor; notice of any such approval to be given by the Unit Operator to all parties hereto.

3

5.

6

7

8

`9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

21. RATE OF PROSPECTING, DEVELOPMENT, AND PRODUCTION. The Director is hereby vested with authority to alter or modify from time to time in his discretion the quantity and rate of production under this agreement when such quantity and rate is not fixed pursuant to Federal or State law or does not conform to any state-wide voluntary conservation or allocation program, which is established, recognized, and generally adhered to by the majority of operators in such State, such authority being hereby limited to alteration or modification in the public interest, the purpose thereof and the public interest to be served thereby to be stated in the order of alteration or modification. Without regard to the foregoing, the Director is also hereby vested with authority to alter or modify from time to time in his discretion the rate of prospecting and development and the quantity and rate of production under this agreement when such alteration or modification is in the interest of attaining the conservation objectives stated in this agreement and is not in violation of any applicable Federal or State law.

Powers in this section vested in the Director shall only be exercised after notice to Unit Operator and opportunity for hearing to be held not less than 15 days from notice.

22. APPEARANCES. Unit Operator shall, after notice to other parties affected, have the right to appear for and on behalf of any and all interests affected hereby before the Department of the Interior and to appeal from orders issued under the regulations of said Department or to apply for relief from any of said regulations or in any proceedings relative to operations before the Department of the Interior or any other legally constituted authority; provided, however, that any other interested party

shall also have the right at his own expense to be heard in any such proceeding.

9.

- 23. NOTICES. All notices, demands or statements required hereunder to be given or rendered to the parties hereto shall be deemed fully given if given in writing and personally delivered to the party or sent by postpaid registered or certified mail, addressed to such party or parties at their respective addresses set forth in connection with the signatures hereto or to the ratification or consent hereof or to such other address as any such party may have furnished in writing to party sending the notice, demand or statement.
- 24. NO WAIVER OF CERTAIN RIGHTS. Nothing in this agreement contained shall be construed as a waiver by any party hereto of the right to assert any legal or constitutional right or defense as to the validity or invalidity of any law of the State wherein said unitized lands are located, or of the United States, or regulations issued thereunder in any way affecting such party, or as a waiver by any such party of any right beyond his or its authority to waive.
- 25. UNAVOIDABLE DELAY. All obligations under this agreement requiring the Unit Operator to commence or continue drilling or to operate on or produce unitized substances from any of the lands covered by this agreement shall be suspended while the Unit Operator, despite the exercise of due care and diligence, is prevented from complying with such obligations, in whole or in part, by strikes, acts of God, Federal, State, or municipal law or agencies, unavoidable accidents, uncontrollable delays in transportation, inability to obtain necessary materials in open market, or other matters beyond the reasonable control of the Unit Operator whether similar to matters herein enumerated or not. No unit obligation which is suspended under this section shall become due less than thirty (30) days after it

has been determined that the suspension is no longer applicable. Determination of creditable "Unavoidable Delay" time shall be made by the unit operator subject to approval of the Supervisor.

- 26. NONDISCRIMINATION. In connection with the performance of work under this agreement, the operator agrees to comply with all the provisions of section 202 (1) to (7) inclusive of Executive Order 11246 (30 F.R. 12319), which are hereby incorporated by reference in this agreement.
- 27. LOSS OF TITLE. In the event title to any tract of unitized land shall fail and the true owner cannot be induced to join in this unit agreement, such tract shall be automatically regarded as not committed hereto and there shall be such readjustment of future costs and benefits as may be required on account of the loss of such title. In the event of a dispute as to title as to any royalty, working interest, or other interests subject thereto, payment or delivery on account thereof may be withheld without liability for interest until the dispute is finally settled; provided, that, as to Federal land or leases, no payments of funds due the United States should be withheld, but such funds shall be deposited as directed by the Supervisor to be held as unearned money pending final settlement of the title dispute, and then applied as earned or returned in accordance with such final settlement.

Unit Operator as such is relieved from any responsibility for any defect or failure of any title hereunder.

28. NON-JOINDER AND SUBSEQUENT JOINDER. If the owner of any substantial interest in a tract within the unit area fails or refuses to subscribe or consent to this agreement, the owner of the working interest in that tract may withdraw said tract from this agreement by written notice delivered to the Supervisor and the Unit Operator prior to the approval of this agreement by the Supervisor. Any vil or gas interests in lands within the unit area not committed hereto prior to submission

of this agreement for final approval may therafter be committed hereto by the owner or owners thereof subscribing or consenting to this agreement, and, if the interest is a working interest, by the owner of such interest also subscribing to the unit operating agreement. After operations are commenced hereunder, the right of subsequent joinder, as provided in this section, by a working interest owner is subject to such requirements or approvals, if any, pertaining to such joinder, as may be provided for in the unit operating agreement. After final approval hereof, joinder by a non-working interest owner must be consented to in writing by the working interest owner committed hereto and responsible for the payment of any benefits that may accrue hereunder in behalf of such non-working interest. A non-working interest may not be committed to this unit agreement unless the corresponding working interest is committed hereto. Joinder to the unit agreement by a working-interest owner, at any time, must be accompanied by appropriate joinder to the unit operating agreement, if more than one committed working-interest owner is involved, in order for the interest to be regarded as committed to this unit agreement. Except as may otherwise herein be provided, subsequent joinders to this agreement shall be effective as of the first day of the month following the filing with the Supervisor of duly executed counterparts of all or any papers necessary to establish effective commitment of any tract to this agreement unless objection to such joinder is duly made within 60 days by the Supervisor.

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25.

26

27

28

29

30

31

32

29. COUNTERPARTS. This agreement may be executed in any number of counterparts no one of which needs to be executed by all parties or may be ratified or consented to by separate instrument in writing specifically referring hereto and shall be binding upon all those parties who have executed such a counterpart, ratification, or consent hereto with the same force and effect as if all such parties had signed the same document and regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands within the above-described unit area.

30. SURRENDER. Nothing in this agreement shall prohibit the exercise by any working interest owner of the right to surrender vested in such party by any lease, sublease, or operating agreement as to all or any part of the lands covered thereby, provided that each party who will or might acquire such working interest by such surrender or by forfeiture as hereafter set forth, is bound by the terms of this agreement.

20 .

26 ·

If as a result of any such surrender the working interest rights as to such lands become vested in any party other than the fee owner of the unitized substances, said party may forfeit such rights and further benefits from operation hereunder as to said land to the party next in the chain of title who shall be and become the owner of such working interest.

If as the result of any such surrender or forfeiture working interest rights become vested in the fee owner of the unitized substances, such owner may:

- (1) Accept those working interest rights subject to this agreement and the unit operating agreement; or
- (2) Lease the portion of such land as is included in a participating area established hereunder subject to this agreement and the unit operating agreement.
- (3) Provide for the independent operation of any part of such land that are not then included within a participating area established hereunder.

the working interest rights subject to this agreement and the unit operating agreement or lease such lands as above provided within six (6) months after the surrendered or forfeited working interest rights become vested in the fee owner, the benefits and obligations of operations accruing to such lands under this agreement and the unit operating agreement shall be shared by the remaining owners of unitized working interests in accordance with their respective working interest ownerships,

and such owners of working interests shall compensate the fee owner of unitized substances in such lands by paying sums equal to the rentals, minimum royalties, and royalties applicable to such lands under the lease in effect when the lands were unitized.

6.

An appropriate accounting and settlement shall be made for all benefits accruing to or payments and expenditures made or incurred on behalf of such surrendered or forfeited working interest subsequent to the date of surrender or forfeiture, and payment of any monies found to be owing by such an accounting shall be made as between the parties within thirty (30) days. In the event no unit operating agreement is in existence and a mutually acceptable agreement between the proper parties thereto cannot be consummated, the Supervisor may prescribe such reasonable and equitable agreement as he deems warranted under the circumstances.

The exercise of any right vested in a working interest owner to reassign such working interest to the party from whom obtained shall be subject to the same conditions as set forth in this section in regard to the exercise of a right to surrender.

31. TAXES. The working interest owners shall render and pay for their account and the account of the royalty owners all valid taxes on or measured by the unitized substances in and under or that may be produced, gathered and sold from the land subject to this contract after the effective date of this agreement, or upon the proceeds or net proceeds a rivelative date of this agreement, or upon the proceeds or net proceeds a rivelative therefrom. The working interest owners on each tract shall and may charge the proper proportion of said taxes to the regalty owners having interests in said tract, and may currently retain and deduct sufficient of the unitized substances or derivative products, or let proceeds thereof from the allocated share of each royalty owner to secure reimbursement for the taxes so paid. No such taxes shall be charged to the United States or the State of New Mexico or to any lessor who has a contract with his lessee which requires the lessee to pay such taxes.

1	32. NO PARTNERSHIP. It is expressly agreed that the re-
2	lation of the parties hereto is that of independent contractors
3	and nothing in this agreement contained, expressed or implied,
4	nor any operations conducted hereunder, shall create or be deemed
5	to have created a partnership or association between the parties
6	hereto or any of them.
7	33. SURFACE MANAGEMENT STIPULATION. Nothing in this agree-
8	ment shall modify any special Federal-lease stipulations relating
9	to surface management, attached to and made a part of Oil and Gas
10	Leases covering lands within the Unit Area.
11	34. RECLAMATION LANDS. Nothing in this agreement shall
12	modify the special, Federal-lease stipulations applicable to
13	lands under the jurisdiction of the Bureau of Reclamation.
14	IN WITNESS WHEREOF, the parties hereto have caused
15	this agreement to be executed as of the date first above written.
16	
17	
18 19	UNIT OPERATOR AND WORKING INTEREST OWNER
20 .	Amoco Production Company
21	By Menning Arthroxed Attorney-in-Fact
22 23	Address: P. O. Box 3092 Houston, Texas 77001
24	WORKING INTEREST OWNERS
25 26 27	Gulf Oil Corporation P. O. Drawer 1150 Midland, Texas 79701
28 29 30 31	Phillips Petroleum Company Exploration Office Phillips Building Odessa, Texas 79760
32 33 34	Cities Service Oil Company 800 Vaughn Building Midland, Texas 79701
35 36 37	Tesoro Petroleum Corporation 8520 Crownhill San Antonio, Texas 78209
38 39 10	Yates Petroleum Corporation Yates Building Artesia, New Mexico 88201

STATE OF TEXAS	Ĭ
COUNTY OF HARRIS	Y .
The foregoing ins	trument was acknowledged before me this $ze^{-Q}$
day of Stolemken	, 1973, by C. N. MENNINGER
.0	1f of AMOCO PRODUCTION COMPANY.
My Commission Expires:	0,0
6-1-75	Notary Public in and for Harris County, Texas
	IRENE HALDAS  Notary Public in and for Figure's County, Texas

#### EXHIBIT "B" BUBBLING SPRING EDDY COUNTY, NEW MEXICO

TRACT	DESCRIPTION OF LAND	NUMBER OF ACRES	SERIAL NO. AND EXPIRATION DATE OF LEASE	BASIC ROYALTY AND OWNERSHIP PERCENTAGE	LESSEE OF RECORD	OVERRIDING ROYALTY AND OWNERSHIP PERCENTAGE	WORKING INT AND OWNERSHIP PER
1	T. 20 S R. 26 E. Sec. 23: S/2	320,00	LC-070032-B 1-1-74	A11-U.S.A.	Gulf Oil Corporation	Pauline A. Galt \$750/Acre PP out of 5%	Surface to 8900' Gulf Oil Corporatio Pan American Petrol
							Yates Petroleum Cor
	N*						From 8900' to Base Gulf Oil Corporatio Pan American Petrol
							Below Base Penn For Gulf Oil Corporatio
2	T. 20 S R. 26 E. Sec. 22: N/2 NE/4, SW/4 NE/4	120.00	LC-071847 1-1-74	All-U.S.A.	Gulf Oil Corporation	Co.,E.E.Nearburg, Anna A.(Nearburg) Reischman, Tom	Surface to 8900' Cities Service Oil Gulf Oil Corporatio Pan American Petrol
	<i>3</i>				Corp. 50.00000% Phillips Petroleum Co.	Tr. \$750/Acre PP out of 5%	Phillips Petroleum Yates Petroleum Cor
					14.285/1%	Foster Morrell 2% Tracy Clark & Robert Boling 1/4 of 1%	From 8900' to Base Cities Service Oil Gulf Oil Corporation Pan American Petrol
							Phillips Petroleum
							Below Base Penn Form Cittes Service Off T Gulf Oil Corporation Pan American Petrol

Base Penn Form S Service Oil ( Oil Corporation Pan American Petrol

Phillips Petroleum

### EXHIBIT "B" BUBBLING SPRING EDDY COUNTY, NEW MEXICO

,	NUMBER OF ACRES	SERIAL NO. AND EXPIRATION DATE OF LEASE	BASIC ROYALTY AND OWNERSHIP PERCENTAGE	LESSEE OF RECORD	OVERRIDING ROYALTY AND OWNERSHIP PERCENTAGE	WORKING INTEREST AND OWNERSHIP PERCENTAGE
E.	320.00	LC-070032-B 1-1-74	All-U.S.A.	Gulf Oil Corporation	Pauline A. Galt \$750/Acre PP out of 5%	Surface to 8900' Gulf Oil Corporation 74.03350% Pan American Petroleum Corporation 25.00000% Yates Petroleum Corporation 0.96650% From 8900' to Base Penn Gulf Oil Corporation 50.00000% Pan American Petroleum Corporation 50.00000% Below Base Penn Formation Gulf Oil Corporation 100.00000%
E. 4,	120.00	LC-071847 1-1-74	All-U.S.A.	Gulf Oil Corporation 28.57143% Pan American Petroleum Corp. 50.0000% Phillips Petroleum Co.	Co.,E.E.Nearburg, Anna A.(Nearburg) Reischman, Tom Ingram,E.H. Nard- Tr. \$750/Acre PP	Surface to 8900' Cities Service Oil Co. 3.57143% Gulf Oil Corporation 56.03829% Pan American Petroleum Corporation 25.00000% Phillips Petroleum 14.28571% Yates Petroleum Corp. 1.10457%  From 8900' to Base Penn. Cities Service Oil Co. 7.14286% Gulf Oil Corporation 28.57143% Pan American Petroleum Corporation 50.00000% Phillips Petroleum Co. 14.28571% Below Base Penn Formation Cities Service Oil Co. 3.57143% Gulf Oil Corporation 14.28571% Pan American Petroleum Corporation 75.00000% Phillips Petroleum Co. 7.14286%

EXHIBIT	"B" - BUBBLING SPRING,	EDDY COUNT	TY, NEW MEXICO				
TRACT		BER OF CRES	SERIAL NO. AND EXPIRATION DATE OF LEASE	BASIC ROYALTY AND OWNERSHIP PERCENTAGE	LESSEE OF RECORD	OVERRIDING ROYALTY AND OWNERSHIP PERCENTAGE	WORKING INTERES AND OWNERSHIP PERCENT
3	T. 20 S R. 26 E. Sec. 22: SE/4 NE/4	40.00	LC-071847-A 1-1-74	All-U.S.A.	Cities Service Oil Co. 50.00000% Pnillips Petroleum Co. 50.00000%	Anna A. (Nearburg)	Surface to 8900' Cities Service Oil Co. Gulf Oil Corporation Pan American Petroleum Phillips Petroleum Co. Yates Petroleum Corp.  From 8900' to Base Peni Cities Service Oil Co. Gulf Oil Corporation Pan American Petroleum Phillips Petroleum Co. Below Base Penn Formation
							Cities Service Oil Co. Gulf Oil Corporation Pan American Petroleum
							Phillips Petroleum Co.
4	T. 20 S R. 26 E. Sec. 21: E/2 SE/4 Sec. 28: S/2 NE/4, SE/4 SE/4, NE/4 NE/		NM-03215 H.B.P.	A11-U.S.A.	Cities Service Oil Co. 3.57143% Gulf Oil Corporation 56.03829%	Childress Royalty Co.,E.E.Nearburg, Anna A.(Nearburg) Reischman, Tom	Surface to 8900' Cities Service Oil Co. Gulf Oil Corporation Pan American Petroleum
					Pan American Petroleum Corp. 25.00000%	Ingram,E.H. Ward- Tr. \$750/Acre PP	Phillips Petroleum Co.

Phillips Petroleum Co.

Yates Petroleum Corp.

14.28571%

1.10457%

out of 5%

1/4 of 1%

Foster Morrell 2%

Tracy Clark &

Robert Boling

Phillips Petroleum Co. Yates Petroleum Corp.

From 8900' to Base Penn Cities Service Oil Co. Gulf Oil Corporation Pan American Petroleum

Phillips Petroleum Co. Below Base Penn Formati Cities Service Oil Co.

PRING, EDDY COUN	ITY, NEW MEXICO				
NUMBER OF ACRES	SERIAL NO. AND EXPIRATION DATE OF LEASE	BASIC ROYALTY AND OWNERSHIP PERCENTAGE	LESSEE OF RECORD	OVERRIDING ROYALTY AND OWNERSHIP PERCENTAGE	WORKING INTEREST AND OWNERSHIP PERCENTAGE
E. E/4 40.00	LC-071847-A 1-1-74	All-U.S.A.	Cities Service Oil Co. 50.00000% Phillips Petroleum Co. 50.00000%	Anna A. (!learburg)	Surface to 8900' Cities Service Oil Co. 3.57143% Gulf Oil Corporation 56.03829% Pan American Petroleum Corporation 25.00000% Phillips Petroleum Cc. 14.28571% Yates Petroleum Corp. 1.10457%  From 8900' to Base Penn Cities Service Oil Co. 7.14286% Gulf Oil Corporation 28.57143% Pan American Petroleum Corporation 50.00000% Phillips Petroleum Co. 14.28571%  Below Base Penn Formation Cities Service Oil Co. 3.57143% Gulf Oil Corporation 14.28571% Pan American Petroleum Corporation 75.00000% Phillips Petroleum Co. 7.14286%
E. 240.00 , SE/4 -/4 NE/4	NM-03215 H.B.P.	A11-U.S.A.	Cities Service Oil Co. 3.57143% Gulf Oil Corporation 56.03829% Pan American Petroleum Corp. 25.00000% Phillips Petroleum Co. 14.28571% Yates Petroleum Corp. 1.10457%	Childress Royalty Co.,E.E.Nearburg, Anna A.(Nearburg), Reischman, Tom  Ingram,E.H. Ward- Tr. \$750/Acre PP out of 5% Foster Morrell 2% Tracy Clark & Robert Boling 1/4 of 1%	Surface to 8900' Cities Service Oil Co. 3.57143% Gulf Oil Corporation 56.03829% Pan American Petroleum Corporation 25.00000%  Phillips Petroleum Co. 14.28571% Yates Petroleum Corp. 1.10457%  From 8900' to Base Penn Cities Service Oil Co. 7.14286% Gulf Oil Corporation 28.57143% Pan American Petroleum Corporation 50.00000% Phillips Petroleum Co. 14.28571%

EXHIBI	T'"B" - BUBBLING	SPRING, EDDY CO	DUNTY, NEW MEXICO				
TRACT NO.	DESCRIPTION OF LAND	NUMBER OF ACRES	SERIAL NO. AND EXPIRATION DATE OF LEASE	BASIC ROYALTY AND OWNERSHIP PERCENTAGE	LESSEE OF RECORD	OVERRIDING ROYALTY AND OWNERSHIP PERCENTAGE	
4 Contd.							
5	T. 20 S R. 26 E Sec. 21: NW/4 SE/4 Sec. 27: E/2 NW/4 Sec. 28: N/2 SE/4, SE/4	240.00	NM-03215-A H.B.P.	All-U.S.A.	Cities Service Oil Co. 50.00000% Phillips Petroleum Co. 50.00000%	Childress Royalty Co.,E.E.Nearburg, Anna A.(Nearburg) Reischman, Tom Ingram,E.H. Ward- Tr. \$750/Acre PP out of 5% Foster Morrell 2% Tracy Clark & Robert Boling 1/4 of 1%	
							[]
				₩.			í
6	T. 20 S R. 26 E Sec. 22: SW/4 SEc. 27: NW/4 NW/4	200.00	NM-03217 1-1-74	A11-U.S.A.	Cities Service Oil Co. 7.14286% Gulf Oil Corporation 28.57143%	Childress Royalty Co.,E.E.Nearburg, Anna A.(Nearburg) Reischman, Tom	900
				· ·	Pan American Petroleum	Ingram, E.H. Ward-	

Corp.

50.00000%

14.28571%

Phillips Petroleum Co.

Tr. \$750/Acre PP

Foster Morrell 2% Tracy Clark &

Robert Boling 1/4 of 1%

out of 5%

OWNERSHIP PERC

NORKING INTE

Gulf Oil Corporation Pan American Petrol

Phillips Petroleum

Surface to 8900' Cities Service Oil of Gulf Oil Corporation Pan American Petrole

Phillips Petroleum (Yates Petroleum Corr

From 8900' to Base F Cities Service 011 C Gulf Oil Corporation Pan American Petrole

Phillips Petroleum (

Below Base Penn Form Cities Service Oil C Gulf Oil Corporation Pan American Petrole

Phillips Petroleum C

Surface to 8900' Cities Service Oil C Gulf Oil Corporation Pan American Petrole

Phillips Petroleum C Yates Petroleum Corp

From 8900' to Base Po Cities Service Oil Co Gulf Oil Corporation Pan American Petroleu

Phillips Petroleum Co

SPRING, EDDY COUNTY, NEW MEXICO

A NING, LDDT CO	ONTE, MEN MEXICO	*			
NUMBER OF ACRES	SERIAL NO. AND EXPIRATION DATE OF LEASE	BASIC ROYALTY AND OWNERSHIP PERCENTAGE	LESSEE OF RECORD	OVERRIDING ROYALTY AND OWNERSHIP PERCENTAGE	WORKING INTEREST AND OWNERSHIP PERCENTAGE
240.00 SW/4	NM-03215-A H.B.P.	All-U.S.A.	Cities Service Oil Co. 50.00000% Phillips Petroleum Co. 50.00000%	Childress Royalty Co.,E.E.Nearburg, Anna A.(Nearburg) Reischman, Tom Ingram,E.H. Ward- Tr. \$750/Acre PP out of 5% Foster Morrell 2% Tracy Clark & Robert Boling 1/4 of 1%	Gulf Oil Corporation 14.28571% Pan American Petroleum Corporation 75.00000% Phillips Petroleum Co. 7.14286%  Surface to 8900' Cities Service Oil Co. 3.57143% Gulf Oil Corporation 56.03829% Pan American Petroleum Corporation 25.00000% Phillips Petroleum Co. 14.28571% Yates Petroleum Corp. 1.10457%  From 8900' to Base Penn Cities Service Oil Co. 7.14286% Gulf Oil Corporation 28.57143% Pan American Petroleum Corporation 50.00000% Phillips Petroleum Co. 14.28571%
					Below Base Penn Formation Cities Service Oil Co. 3.57143% Gulf Oil Corporation 14.28571% Pan American Petroleum Corporation 75.00000% Phillips Petroleum Co. 7.14286%
200.00	NM-03217 1-1-74	A11-U.S.A.	Cities Service 0il Co. 7.14286% Gulf Oil Corporation 28.57143% Pan American Petroleum Corp. 50.00000% Phillips Petroleum Co. 14.28571%	Childress Royalty Co.,E.E.Nearburg, Anna A.(Nearburg) Reischman, Tom Ingram,E.H. Ward- Tr. \$750/Acre PP out of 5% Foster Morrell 2% Tracy Clark & Robert Boling 1/4 of 1%	Surface to 8900' Cities Service Oil Co. 3.57143% Gulf Oil Corporation 56.03829% Pan American Petroleum Corporation 25.00000% Phillips Petroleum Co. 14.28571% Yates Petroleum Corp. 1.10457%  From 8900' to Base Penn Cities Service Oil Co. 7.14286% Gulf Oil Corporation 28.57143% Pan American Petroleum Corporation 50.00000% Phillips Petroleum Co. 14.28571%

TRACT NO.	DESCRIPTION OF LAND	NUMBER OF ACRES	SERIAL NO. AND EXPIRATION DATE OF LEASE	BASIC ROYALTY AND OWNERSHIP PERCENTAGE	LESSEE OF RECORD	OVERRIDING ROYALTY AND OWNERSHIP PERCENTAGE	WORKING A OWNERSHIP
6 Contd.			÷				Below Base Pe Cities Servic Gulf Oil Corp Pan American
							Phillips Petr
7	T. 20 S R. 26 E. Sec. 22: NW/4,SE/4	320.00	NM-03217-A 1-1-74	All-U.S.A.	Cities Service 0il Co. 50.00000% Phillips Petroleum Co. 50.00000%	Childress Royalty Co.,E.E.Nearburg, Anna A.(Nearburg) Reischman, Tom Ingram,E.H.Ward- Tr. \$750/Acre PP out of 5% Foster Morrell 2% Tracy Clark & Robert Boling 1/4 of 1%	Surface to 89 Cities Servic Gulf Oil Corp Pan American Phillips Petr Yates Petrole From 8900' to Cities Service Gulf Oil Corp
						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Pan American
							Phillips Petro
							Below Base Per Cities Service Gulf Oil Corpo Pan American P
. •			. i				Phillips Petro
8	T. 20 S R. 26 E. Sec. 21: W/2 NE/4	80.00	NI4-03365 1-1-74	A11-U.S.A.	Cities Service Oil Co. 7.14286% Gulf Oil Corporation 28.57143% Pan American Petroleum	Childress Royalty Co.,E.E.Nearburg, Anna A.(Nearburg) Reischman, Tom Ingram,E.H.Ward-	Surface to 890 Cities Service Gulf Oil Corpo Pan American F
			*		Corp. 50.00000% Phillips Petroleum Co. 14.28571%	Tr. \$750/Acre PP out of 5%	Phillips Petro Yates Petroleu
					14.603/1%	Foster Morrell 2% Tracy Clark & Robert Boling 1/4 of 1%	From 8900' to Cities Service Gulf Oil Corpo

EXHIBIT "B" - BUBBLING SPRING, EDDY COUNTY, NEW MEXICO

NG INTERES AND IP PERCEN

Penn Forma ice Oil Co poration n Petroleu

troleum Co

3900' ce Oil Co rporation Petrole

roleum Co eum Corp

o Base P ce Oil C poration Petrole

roleum C

enn Form ce Oil C poration Petrole

roleum C

9001 ce Oil C poration Petrole

roleum d eum Co.

From 8900' to Base P Cities Service Oil C Gulf Oil Corporation

PRING, EDDY COUNTY, NEW MEXICO

 NUMBER OF ACRES	SERIAL NO. AND EXPIRATION DATE OF LEASE	BASIC ROYALTY AND OWNERSHIP PERCENTAGE	LESSEE OF RECORD	OVERRIDING ROYALTY AND OWNERSHIP PERCENTAGE	WORKING INTEREST AND OWNERSHIP PERCENTAGE
					Below Base Penn Formation Cities Service Oil Co. 3.57143% Gulf Oil Corporation 14.28571% Pan American Petroleum Corporation 75.00000% Phillips Petroleum Co. 7.14285%
320.00	NM-03217-A 1-1-74	A11-U.S.A.	Cities Service Oil Co. 50.00000% Phillips Petroleum Co. 50.00000%	Anna A. (Nearburg)	Surface to 8900' Cities Service Oil Co. 3.57143% Gulf Oil Corporation 56.03829% Pan American Petroleum Corporation 25.00000% Phillips Petroleum Co. 14.28571% Yates Petroleum Corp. 1.10457%  From 8900' to Base Penn Cities Service Oil Co. 7.14286% Gulf Oil Corporation 28.57143% Pan American Petroleum Corporation 50.00000% Phillips Petroleum Co. 14.28571%
					Below Base Penn Formation Cities Service Oil Co. 3.57143% Gulf Oil Corporation 14.28571% Pan American Petroleum Corporation 75.00000% Phillips Petroleum Co. 7.14286%
80.00	NM-03365 1-1-74	Λ11-U.S.Λ.	Cities Service Oil Co. 7.14286% Gulf Oil Corporation 28.57143% Pan American Petroleum Corp. 50.00000% Phillips Petroleum Co. 14.28571%	Childress Royalty Co.,E.E.Nearburg, Anna A.(Nearburg) Reischman, Tom Ingram,E.H.Ward- Tr. \$750/Acre PP out of 5% Foster Morrell 2% Tracy Clark & Robert Boling 1/4 of 1%	Surface to 8900' Cities Service Oil Co. 3.57143% Gulf Oil Corporation 56.03829% Pan American Petroleum Corporation 25.00000% Phillips Petroleum Co. 14.28571% Yates Petroleum Co. 1.10457%  From 8900' to Base Penn Cities Service Oil Co. 7.14286% Gulf Oil Corporation 28.57143%

TRACT NO.	DESCRIPTION OF LAND	NUMBER OF ACRES	SERIAL NO. AND EXPIRATION DATE OF LEASE	BASIC ROYALTY AND OWNERSHIP PERCENTAGE	LESSEE OF RECORD	OVERRIDING ROYALTY AND OWNERSHIP PERCENTAGE
8 Contd.				4		
		·				
9	T. 20 S R. 26 E. Sec. 21: E/2 NE/4	80.00	NM-03365-A 1-1-74	All-U.S.A.	Cities Service 0il Co. 50,00000% Phillips Petroleum Co. 50,00000%	Childress Royalty Co.,E.E.Nearburg, Anna A.(Nearburg) Reischman, Tom Ingram,E.H. Ward- Tr. \$750/Acre PP out of 5% Foster Morrell 2% Tracy Clark &
						Robert Boling 1/4 of 1%
					er en	
10	T. 20 S R. 26 E. Sec. 27: All of NE/4 S East of Pecos	ul/4 5.20	NM-038124 1-1-74	A11-U.S.A.	Cities Service Oil Co.	Peter O.Nyce,Jr.& Christine P.Nyce 1%

River

WORKING INTERE AND OWNERSHIP PERCEN

Pan American Petrole

Phillips Petroleum Co Below Base Penn Forma Cities Service 011 Co

Gulf Oil Corporation
Pan American Petrole

Phillips Petroleum C

Surface to 8900' Cities Service Oil C Gulf Oil Corporation Pan American Petrole

Phillips Petroleum C Yates Petroleum Corp

From 8900' to Base P Cities Service Oil C Gulf Oil Corporation Pan American Petrole

Phillips Petroleum C

Below Base Penn Form Cities Service Oil C Gulf Oil Corporation Pan American Petrole

Phillips Petroleum (

Surface to 8900' Citles Service Oil C Gulf Oil Corporation Pan American Petrole

Yates Petroleum Cor

NG, EDDY COUNTY, NEW MEXICO

	NUMBER OF ACRES	SERIAL NO. AND EXPIRATION DATE OF LEASE	BASIC ROYALTY AND OWNERSHIP PERCENTAGE	LESSEE OF RECORD	OVERRIDING ROYALTY AND OWNERSHIP PERCENTAGE	WORKING INTEREST AND OWNERSHIP PERCENTAGE
						Pan American Petroleum Corporation 50.00000%
						Phillips Petroleum Co. 14.28571%
•			e e e e e e e e e e e e e e e e e e e			Below Base Penn Formation Cities Service Oil Co. 3.57143% Gulf Oil Corporation 14.28571% Pan American Petroleum Corporation 75.00000% Phillips Petroleum Co. 7.14286%
	80.00	NM-03365-A 1-1-74	All-U.S.A.	Cities Service Oil Co. 50,00000% Phillips Petroleum Co. 50,00000%	Childress Royalty Co.,E.E.Nearburg, Anna A.(Nearburg) Reischman, Tom Ingram,E.H. Ward- Tr. \$750/Acre PP out of 5%	Surface to 8900' Cities Service Vil Co. 3.57143% Gulf Oil Corporation 56.03829% Pan American Petroleum Corporation 25.00000% Phillips Petroleum Co. 14.28571% Yates Petroleum Corp. 1.10457%
					Foster Morrell 2% Tracy Clark & Robert Boling 1/4 of 1%	From 8900' to Base Penn Cities Service Oil Co. 7.14286% Gulf Oil Corporation 28.57143% Pan American Petroleum Corporation 50.00000% Phillips Petroleum Co. 14.28571%
						Below Base Penn Formation Cities Service Oil Co. 3.57143% Gulf Oil Corporation 14.28571% Pan American Petroleum Corporation 75.00000%
			A Committee of the Comm	d		Phillips Petroleum Co. 7.14286%
l S cos	W/4 5.20	NM-038124 1-1-74	A11-U.S.A.	Cities Service Oil Co.	Peter O.Nyce,Jr.& Christine P.Nyce 1%	Surface to 8900' Cities Service Oil Co. 25.00000% Gulf Oil Corporation 48.06700% Pan American Petroleum Corporation 25.00000%
						Yates Petroleum Corp. 1.93300%

EXHIBIT "B" -	BUBBLING	SPRING,	EDDY	COUNTY,	NEW MEXICO
---------------	----------	---------	------	---------	------------

FYHIRI	1 "B" - BUBBLING SPRING,	FODA CORN.	IY, NEW MEXICO		i	,	
TRACT NO.	DESCRIPTION OF LAND	NUMBER OF ACRES	SERIAL NO. AND EXPIRATION DATE OF LEASE	BASIC ROYALTY AND OWNERSHIP PERCENTAGE	LESSEE OF RECORD	OVERRIDING ROYALTY AND OWNERSHIP PERCENTAGE	NORKING INTERE AND OWNERSHIP PERCEN
10 Contd.							Below 8900' Cities Service Oil C Pan American Petrole
11	T. 20 S R. 26 E. Sec. 27: N/2 SE/4 East of Pecos River		NM-038124-Λ 1-1-74	A11-U.S.A.	Pan American Petroleum Corporation	Peter Q.Nyce,Jr.& Christine P.Nyce 1%	Surface to 8900' Gulf Oil Corporation Pan American Petrole
							Yates Petroleum Corp Below 8900' Pan American Petrole
12 .	I. 20 S R. 26 E. Sec. 27: E/2 NE/4	80.00	NM-0283953A 1-1-74	All-U.S.A.	Gulf Gil Corporation	David M. Evans 5%	Surface to 8900' Gulf Oil Corporation Pan American Petrole
		-					Yates Petroleum Corp
							From 8900' to Base P Gulf Oil Corporation Pan American Petrole
							Below Base Penn Form Gulf Oil Corporation
13	T. 20 S R. 26 E. Sec. 26: E/2, NW/4, E/2 SW/4 Sec. 35: E/2, E/2 W/2	963.67	NM-0338758 H.B.P.	A11-U.S.A.	Gulf Oil Corporation	Pauline A. Galt \$500/Acre PP out of 1/2 of 1%-George	Surface to 8900' Gulf Oil Corporation Pan American Petrole
	Save and except an unsurveyed 76.33 acre					D.Riggs \$500/Acre PP out of 2.25%-Neil H. Wills \$500/Acre	Yates Petroleum Corp
	tract lying along the West side of SE/4 SN/4 of Sec.26					PP out of 2.25%	From 8900' to Base Po Gulf Oil Corporation Pan American Petrole
	and E/2 W/2 Sec. 35,						

7110	COOK	COLLECTIV	SIFILE	MENTAA
ung.	LUUY	COUNTY.	NEW	MEXICO

	NUMBER OF ACRES	SERIAL NO. AND EXPIRATION DATE OF LEASE	BASIC ROYALTY AND OWNERSHIP PERCENTAGE	LESSEE OF RECORD	OVERRIDING ROYALTY AND OWNERSHIP PERCENTAGE	WORKING INTEREST AND OWNERSHIP PERCENTAGE
	,					Below 8900' Cities Service Oil Co. 50.00000% Pan American Petroleum Corporation 50.00000%
East River	21.00	NM-038124-A 1-1-74	A11-U.S.A.	Pan American Petroleum Corporation	Peter Q.Nyce,Jr.& Christine P.Nyce 1%	Surface to 8900' Gulf Oil Corporation 48.06700% Pan American Petroleum Corporation 50.00000% Yates Petroleum Corp. 1.93300% Below 8900' Pan American Petroleum Corporation 100.00000%
	80.00	NM-0283953A 1-1-74	A11-U.S.A.	Gulf Oil Corporation	David M. Evans 5%	Surface to 8900' Gulf Oil Corporation 74.03350% Pan American Petroleum Corporation 25.00000% Yates Petroleum Corp. 0.96650%
						From 8900' to Base Penn Gulf Oil Corporation 50.00000% Pan American Petroleum Corporation 50.00000% Below Base Penn Formation
						Gulf Oil Corporation 100,00000%
: ; E/2	963.67	NM-0338758 H.B.P.	All-U.S.A.	Gulf Oil Corporation	Pauline A. Galt \$500/Acre PP out of 1/2 of 1%-George	Surface to 8900' Gulf Oil Corporation 74.03350% Pan American Petroleum Corporation
V/2 un-					D.Riggs \$500/Acre PP out of 2.25%-Neil H. Wills \$500/Acre PP out of 2.25%	25.00000% Yates Petroleum Corp. 0.96650%  From 8900' to Base Penn Gulf Oil Corporation 50.00000% Pan American Petroleum Corporation 50.00000%

TRACT NO.	DESCRIPTION OF LAND	NUMBER OF ACRES	SERIAL NO. AND EXPIRATION DATE OF LEASE	BASIC ROYALTY AND OWNERSHIP PERCENTAGE	LESSEE OF RECORD	OVERRIDING ROYALTY AND OWNERSHIP PERCENTAGE	WORKING INTER AND OWNERSHIP PERCE
13 Contd.		in in Williams (1), Williams (1), with and other color coloring.		and the state of t	rangan sanang ang pagnagnyah sanang sanan sanan sa rangan banah basah basah sanah sa basah sanah sa		Below Base Penn For Gulf Oil Corporatio
14	T. 20 S R. 26 E. Sec. 27: W/2 NE/4	80.00	NM-0426336 1-1-74	A11-U.S.A.	Pan American Petroleum Corporation	F. J. Bradshaw 3%	
							Yates Petroleum Corp
							Below 8900' Pan American Petrole
15	T. 20 S R. 26 E. Sec. 27: SW/4 NW/4, NW/4 SW/4 lying East	14.00	BLM-A-026872 1-1-74	A11-U.S.A.	Cities Service Oil Co.	Peter O.Nyce, Jr. & Christine P. Nyce 1%	Surface to 8900' Cities Service Oil ( Gulf Oil Corporation Pan American Petrolo
	of Pecos River Sec. 28: NW/4 NE/4			et in the second of the second			Yates Petroleum Com
	lying East of Pecos River				\$ 5 3.		From 8900' to Base P Cities Service Oil C Gulf Oil Corporation Pan American Petrole
							Below Base Penn Form Cities Service Oil C Pan American Petrole
16	T. 20 S R. 26 E. Sec. 21: A11 SW/4 SE/4 lying East of Pecos River		BLM-A-026872-A 1-1-74	A11-U.S.A.	Pan American Petroleum Corporation	Peter O.Nyce, Jr. & Christine P. Nyce 1%	Surface to 8900' Gulf Oil Corporation Pan American Petrole
	. 6002 (1461						Yates Petroleum Corp

From 8900' to Base Pe Gulf Oil Corporation NG, EDDY COUNTY, NEW MEXICO

NG,	EDDY COOK	IY, NEW MEXICO			*	
	NUMBER OF ACRES	SERIAL NO. AND EXPIRATION DATE OF LEASE	BASIC ROYALTY AND OWNERSHIP PERCENTAGE	LESSEE OF RECORD	OVERRIDING ROYALTY AND OWNERSHIP PERCENTAGE	WORKING INTEREST AND OWNERSHIP PERCENTAGE
						Below Base Penn Formation Gulf Oil Corporation 100.00000%
	80.00	NM-0426336 1-1-74	A11-U.S.A.	Pan American Petroleum Corporation	F. J. Bradshaw 3%	Gulf Oil Corporation 48.06700% Pan American Petroleum Corporation
						50.0000% Yates Petroleum Corp. 1.93300%
						Below 8900' Pan American Petroleum Corporation 100.00000%
	14.00	BLM-A-026872 1-1-74	All-U.S.A.	Cities Service Oil Co.	Peter O.Nyce, Jr. & Christine P. Nyce 1%	Surface to 8900' Cities Service Oil Co. 12.50000% Gulf Oil Corporation 61.05024% Pan American Petroleum Corporation
ver					•	25.00000% Yates Petroleum Corp. 1.44976%
ver	•					From 8900' to Base Penn Cities Service Oil Co. 25.00000% Gulf Oil Corporation 25.00000% Pan American Petroleum Corporation 50.00000%
						Below Base Penn Formation Cities Service Oil Co. 50,00000% Pan American Petroleum Corporation 50.00000%
/4 of	28.00	BLM-A-026872-A 1-1-74	A11-U.S.A.	Pan American Petroleum Corporation	Peter O.Nyce, Jr. & Christine P. Nyce 1%	Surface to 8900' Gulf Oil Corporation 61.05025% Pan American Petroleum Corporation 37.50000% Yates Petroleum Corp. 1.44975%
						From 8900' to Base Penn Gulf Oil Corporation 25.00000%

•						Control of the second of the s	منتان والتاريخ
TRACT NO.	DESCRIPTION OF LAND	NUMBER OF ACRES	SERIAL NO. AND EXPIRATION DATE OF LEASE	BASIC ROYALTY AND OWNERSHIP PERCENTAGE	LESSEE OF RECORD	OVERRIDING ROYALTY AND OWNERSHIP PERCENTAGE	WORKING INTER AND OWNERSHIP PERCEI
16 Contd.							Pan American Petrol
N.							Below Base Penn Pan American Petrole
17	T. 20 S R. 26 E. Sec. 26: NW/4 SW/4 lying East of Pecos River	37.25	BLM-A-032236-B H.B.P.	A11-U.S.A.	Gulf Oil Corporation	Elk Oil Co. 2%	Gulf Oil Corporation
	17 Tracts	Federal L	ands	2,869.12 Acres		93.21% of Unit Area	
18	T. 20 S R. 26 E.  Sec. 27: Farmchild Farm Trs. 785,786,787,788, 789,790,being all of N/ S/2 & SE/4 SE/4 SAVE & EXCEPT that acreage lying & being on the left or east bank of the Pecos River & SAVE & EXCEPT Fairchild Farm Tr.784 conveyed to W.M.Truitt by Tax Deed recorded in Vol.D6,Pg.3	/2	Fee Lease	12.5% T. D. Hardesty	Gulf Oil Corporation	None	Gulf Oil Corporation

18.75%-W.M. Truitt

Gulf Oil Corporation

None

Gulf Oil Corporation

Fee Lease

T. 20 S. - R. 26 E. Sec. 27: Fairchild Farm 16.00 Tr.784, being approx.

the North 16 acres of NW/4 SW/4

19

ING,	EDDY COUNT	TY, NEW MEXICO					
	NUMBER OF ACRES	SERIAL NO. AND EXPIRATION DATE OF LEASE	BASIC ROYALTY AND OWNERSHIP PERCENTAGE	LESSEE OF RECORD	OVERRIDING ROYALTY AND OWNERSHIP PERCENTAGE	WORKING INTEREST AND OWNERSHIP PERCENTA	
						Pan American Petroleum	Corporation 75.00000%
						Below Base Penn Pan American Petroleum	Corporation 100.0000%
÷ Ł	37.25	BLM-A-032236-B H.B.P.	A11-U.S.A.	Gulf Oil Corporation	Elk Oil Co. 2%	Gulf Oil Corporation	100.00000%
							<b>X</b>
	Federal L	ands	2,869.12 Acres		93.21% of Unit Area		
Farm	115.5	Fee Lease	12.5% T. D. Hardesty	Gulf Oil Corporation	None	Gulf Oil Corporation	100.00000%
88, of N/3 VE &	<b>2</b>					,	
e he of		4. <del>4</del>	en e	ź	No.		
cnild ed <b>to</b> De <b>ed</b>							
Pg.31 .,N.N North 1/4	1.,						
Farm	16.00	う <sub>人</sub> Fee Lease	18.75%-W.M. Truitt	Gulf Oil Corporation	None	Gulf Oil Corporation	100.00000%
of							

EXHIBI	T "B" - GUBBLING SPRING,	EDDY COUNT	Y, NEW MEXICO				
TRACT	DESCRIPTION OF LAND	NUMBER OF ACRES	SERIAL NO. AND EXPIRATION DATE OF LEASE	BASIC ROYALTY AND OWNERSHIP PERCENTAGE	LESSEE OF RECORD	OVERRIDING ROYALTY AND OWNERSHIP PERCENTAGE	WORKING INTERES AND OWNERSHIP PERCENT
20	T. 20 S R. 26 E. Sec. 26: NW/4 SW/4 SAVE & EXCEPT all that part of each of the above described tracts lying & being on the left or east bank of the	2.75	Fee Lease H.B.P.	C.L. Thacker	Pan American Petroleum Corporation	None	Surface to 8900' Gulf Oil Corporation Pan American Petroleu Yates Petroleum Corp. Below 8900'
	Pecos River	ie					Pan American Petroleu
21	T. 20 S R. 26 E. Sec. 21: SW/4 SE/4	74.75	Fee Lease	All-C.C. Foster	Tesoro Petroleum Corp	William R. Lawson 3%	Tesoro Petroleum Corp

3,078.12

**ACRES** 

100.00000%

UNIT AREA

TOTAL LANDS

being a part of the Fairchild Farm Tr.781

Sec. 27: SW/4 NW/4 Sec. 28: HW/4 NE/4 being

Fairchild Farm Trs. 782, 783 & a part of 781, SAVE & EXCEPT all that

of the above described tracts lying & being on the left or east bank

of the Pecos River

part of each

(1)

ING, EDDY COUNTY, NEW MEXICO SERIAL NO. AND BASIC ROYALTY LESSEE OVERRIDING ROYALTY WORKING INTEREST NUMBER OF AND OWNERSHIP EXPIRATION AND OWNERSHIP 0F AND **ACRES** DATE OF LEASE PERCENTAGE RECORD **PERCENTAGE** OWNERSHIP PERCENTAGE Surface to 8900' Gulf Oil Corporation Fee Lease C.L. Thacker Pan American Petroleum None 2.75 H.B.P. Corporation 48.06700% Pan American Petroleum Corporation 50.00000% Yates Petroleum Corp. acts 1.93300% Below 8900' Pan American Petroleum Corporation 100.00000% Fee Lease A11-C.C. Tesoro Petroleum Corp William R. Lawson 3% Tesoro Petroleum Corp. 100.00000% 74.75 Foster 81 being 782, that bed lg **on** ink 209 Acres Fee Lands 6.79% of Unit Area

93.21000%

6.79000%

100.00000%

UNIT AREA

UNIT AREA

UNIT AREA

RECAPITULATION

**ACRES** 

**ACRES** 

ACRES

2,869.12

209.00

3,078.12

FEDERAL LANDS

FEE LANDS

TOTAL LANDS



#### United States Department of the Interior

GEOLOGICAL SURVEY

Drawer 1857 Roswell, New Mexico 88201

October 31, 1973

Amoco Production Company Attention: Mr. C. N. Menninger P. O. Box 3092 Houston, Texas 77001

Gentlemen:

The Bubbling Spring unit agreement, Eddy County, New Mexico, was approved on October 31, 1973. The agreement has been designated No. 14-08-0001-13805 and is effective as of the date of approval.

Enclosed are two copies of the approved agreement. We request that you furnish the New Mexico Oil Conservation Commission and any other interested principals with appropriate evidence of this approval.

Sincerely yours,

CARL C. TRAYWICK /

Acting Area Oil and Gas Supervisor

## RATIFICATION AND JOINDER OF AGREEMENTS ENTITLED "UNIT AGREEMENT" AND "UNIT OPERATING AGREEMENT" BUBBLING SPRING UNIT AREA EDDY COUNTY, NEW MEXICO

KNOW ALL MEN BY THESE PRESENTS:

THAT, WHEREAS, the undersigned owner (whether one or more) of royalty, overriding royalty, or production payment interests hereby acknowledges receipt of a true copy of the "Unit Agreement for the Development and Operation of the Bubbling Spring Unit Area, County of Eddy, State of New Mexico", dated August 1, 1973, hereinafter referred to as the "Unit Agreement", and the undersigned owner (whether one or more) of working interests hereby acknowledges receipt of a true copy of said Unit Agreement and a true copy of the "Unit Operating Agreement, Bubbling Spring Unit Area, County of Eddy, State of New Mexico", dated August 1, 1973, hereinafter referred to as the "Unit Operating Agreement"; and

WHEREAS, Exhibits "A" and "B" attached to said Unit Agreement identify the tracts which may become a part of the Bubbling Spring Unit Area; and

WHEREAS, the undersigned represents that it is the owner of a royalty, overriding royalty or production payment interest, or of a working interest, or both, in one or more of the tracts identified by said Exhibits.

NOW, THEREFORE, the undersigned owner of royalty, overriding royalty or production payment interests only desires to and does hereby ratify, confirm and become a party to said Unit Agreement, and the undersigned owner of working interests only, or the owner of both working interests and royalty, overriding royalty or production payment interests desires to and does hereby ratify, confirm and become a party to said Unit Agreement and said Unit Operating Agreement with respect to all of its interests in all of the tracts identified by said exhibits.

IN WITNESS WHEREOF, each of the undersigned parties has executed this instrument on the date set forth in its acknowledgement. CITIES ŠERVICE OIL COMPANY Villey C. Hill Attorney-In-Fact STATE OF COUNTY OF The foregoing instrument was acknowledged before me this day of , 1973, by My Commission expires: Notary Public in and for County, Oklahoma STATE OF COUNTY OF The foregoing instrument was acknowledged before me this 25 day of , 1973, by Wiloy C. Hill

My Commission expires:

MY COMMISSION EXPLIES OCTOBER 20, 1975

NORA LIPPERT And for Notary Public in and for

\_\_\_\_\_County,

## RATIFICATION AND JOINDER OF AGREEMENTS ENTITLED "UNIT AGREEMENT" AND "UNIT OPERATING AGREEMENT" BUBBLING SPRING UNIT AREA EDDY COUNTY, NEW MEXICO

KNOW ALL MEN BY THESE PRESENTS:

THAT, WHEREAS, the undersigned owner (whether one or more) of royalty, overriding royalty, or production payment interests hereby acknowledges receipt of a true copy of the "Unit Agreement for the Development and Operation of the Bubbling Spring Unit Area, County of Eddy, State of New Mexico", dated August 1, 1973, hereinafter referred to as the "Unit Agreement", and the undersigned owner (whether one or more) of working interests hereby acknowledges receipt of a true copy of said Unit Agreement and a true copy of the "Unit Operating Agreement, Bubbling Spring Unit Area, County of Eddy, State of New Mexico", dated August 1, 1973, hereinafter referred to as the "Unit Operating Agreement"; and

WHEREAS, Exhibits "A" and "B" attached to said Unit Agreement identify the tracts which may become a part of the Bubbling Spring Unit Area; and

WHEREAS, the undersigned represents that it is the owner of a royalty, overriding royalty or production payment interest, or of a working interest, or both, in one or more of the tracts identified by said Exhibits.

NOW, THEREFORE, the undersigned owner of royalty, overriding royalty or production payment interests only desires to and does hereby ratify, confirm and become a party to said Unit Agreement, and the undersigned owner of working interests only, or the owner of both working interests and royalty, overriding royalty or production payment interests desires to and does hereby ratify, confirm and become a party to said Unit Agreement and said Unit Operating Agreement with respect to all of its interests in all of the tracts identified by said exhibits.

IN WITNESS WHEREOF, each of th instrument on the date set forth in its	e undersigned parties has execute	d this
- 111001 William	PHILLIPS PETROLEUM COMPANY	Garage 1
	and teman	N.Ke
	FRED FORWARD, Attorney-in-Fact	
STATE OF TEXAS		
COUNTY OF ECTOR		
		•
The foregoing instrument was a October , 1973, by FRED	cknowledged before me this <u>26th</u> of FORWARD, Attorney-in-Fact	day of
OF PHILLIPS PETROLEUM COMPANY	•	
My Commission expires:		•
June 1, 1975	June H. Delman (Jun	ne H. Dolmar
, <del></del>	√Notary Public in and for	
	Ector County,	
	Texas	
		•
STATE OF		
COUNTY OF		
The fengaging instrument was as	knowledged before me thisd	24 of
The foregoing instrument was ac, 1973, byof	cknowledged before me thisd	ay UI
of		•
My Commission expires:		• • •
TO COMMISSION ON THE COMMISSION OF THE COMMISSIO		
	Notary Public in and for	•
	County	

## RATIFICATION AND JOINDER OF AGREEMENTS ENTITLED "UNIT AGREEMENT" AND "UNIT OPERATING AGREEMENT" BUBBLING SPRING UNIT AREA EDDY COUNTY, NEW MEXICO

#### KNOW ALL MEN BY THESE PRESENTS:

THAT, WHEREAS, the undersigned owner (whether one or more) of royalty, overriding royalty, or production payment interests hereby acknowledges receipt of a true copy of the "Unit Agreement for the Development and Operation of the Bubbling Spring Unit Area, County of Eddy, State of New Mexico", dated August 1, 1973, hereinafter referred to as the "Unit Agreement", and the undersigned owner (whether one or more) of working interests hereby acknowledges receipt of a true copy of said Unit Agreement and a true copy of the "Unit Operating Agreement, Bubbling Spring Unit Area, County of Eddy, State of New Mexico", dated August 1, 1973, hereinafter referred to as the "Unit Operating Agreement"; and

WHEREAS, Exhibits "A" and "B" attached to said Unit Agreement identify the tracts which may become a part of the Bubbling Spring Unit Area; and

WHEREAS, the undersigned represents that it is the owner of a royalty, overriding royalty or production payment interest, or of a working interest, or both, in one or more of the tracts identified by said Exhibits.

NOW, THEREFORE, the undersigned owner of royalty, overriding royalty or production payment interests only desires to and does hereby ratify, confirm and become a party to said Unit Agreement, and the undersigned owner of working interests only, or the owner of both working interests and royalty, overriding royalty or production payment interests desires to and does hereby ratify, confirm and become a party to said Unit Agreement and said Unit Operating Agreement with respect to all of its interests in all of the tracts identified by said exhibits.

IN WITNESS WHEREOF, each of the undersigned parties has executed this ATTEST: instrument on the date set forth in its acknowledgement. Oak MAZ STATE OF \_\_\_\_ COUNTY OF The foregoing instrument was acknowledged before me this , 1973, by My Commission expires: Notary Public in and for County. STATE OF COUNTY OF MEDIANO The foregoing instrument was acknowledged before me this 😩 🤦 day of GULF OIL COMPONING TOU My Commission expires: 6-1-75 in and County,

## RATIFICATION AND JOINDER OF AGREEMENTS ENTITLED "UNIT AGREEMENT" AND "UNIT OPERATING AGREEMENT" BUBBLING SPRING UNIT AREA EDDY COUNTY, NEW MEXICO

#### KNOW ALL MEN BY THESE PRESENTS:

THAT, WHEREAS, the undersigned owner (whether one or more) of royalty, overriding royalty, or production payment interests hereby acknowledges receipt of a true copy of the "Unit Agreement for the Development and Operation of the Bubbling Spring Unit Area, County of Eddy, State of New Mexico", dated August 1, 1973, hereinafter referred to as the "Unit Agreement", and the undersigned owner (whether one or more) of working interests hereby acknowledges receipt of a true copy of said Unit Agreement and a true copy of the "Unit Operating Agreement, Bubbling Spring Unit Area, County of Eddy, State of New Mexico", dated August 1, 1973, hereinafter referred to as the "Unit Operating Agreement"; and

WHEREAS, Exhibits "A" and "B" attached to said Unit Agreement identify the tracts which may become a part of the Bubbling Spring Unit Area; and

WHEREAS, the undersigned represents that it is the owner of a royalty, overriding royalty or production payment interest, or of a working interest, or both, in one or more of the tracts identified by said Exhibits.

NOW, THEREFORE, the undersigned owner of royalty, overriding royalty or production payment interests only desires to and does hereby ratify, confirm and become a party to said Unit Agreement, and the undersigned owner of working interests only, or the owner of both working interests and royalty, overriding royalty or production payment interests desires to and does hereby ratify, confirm and become a party to said Unit Agreement and said Unit Operating Agreement with respect to all of its interests in all of the tracts identified by said exhibits.

IN WITNESS WHEREOF, each of the undersigned parties has executed this instrument on the date set forth in its acknowledgement. ATTEST: TESORO PETROLEUM CORPORATION Assistant Vice President STATE OF TEXAS COUNTY OF The foregoing instrument was acknowledged before me this 25th day of online, 1973, by Charles of Probets
FORO PETROLEUM CORPORATION My Commission expires: Bexar County, Texas. STATE OF COUNTY OF The foregoing instrument was acknowledged before me this \_, 1973, by \_ My Commission expires:

Notary Public in and for

County,

## RATIFICATION AND JOINDER OF AGREEMENTS ENTITLED "UNIT AGREEMENT" AND "UNIT OPERATING AGREEMENT" BUBBLING SPRING UNIT AREA EDDY COUNTY, NEW MEXICO

#### KNOW ALL MEN BY THESE PRESENTS:

My Commission expires:

THAT, WHEREAS, the undersigned owner (whether one or more) of royalty, overriding royalty, or production payment interests hereby acknowledges receipt of a true copy of the "Unit Agreement for the Development and Operation of the Bubbling Spring Unit Area, County of Eddy, State of New Mexico", dated August 1, 1973, hereinafter referred to as the "Unit Agreement", and the undersigned owner (whether one or more) of working interests hereby acknowledges receipt of a true copy of said Unit Agreement and a true copy of the "Unit Operating Agreement, Bubbling Spring Unit Area, County of Eddy, State of New Mexico", dated August 1, 1973, hereinafter referred to as the "Unit Operating Agreement"; and

WHEREAS, Exhibits "A" and "B" attached to said Unit Agreement identify the tracts which may become a part of the Bubbling Spring Unit Area; and

WHEREAS, the undersigned represents that it is the owner of a royalty, overriding royalty or production payment interest, or of a working interest, or both, in one or more of the tracts identified by said Exhibits.

NOW, THEREFORE, the undersigned owner of royalty, overriding royalty or production payment interests only desires to and does hereby ratify, confirm and become a party to said Unit Agreement, and the undersigned owner of working interests only, or the owner of both working interests and royalty, overriding royalty or production payment interests desires to and does hereby ratify, confirm and become a party to said Unit Agreement and said Unit Operating Agreement with respect to all of its interests in all of the tracts identified by said exhibits.

#### NOTICE THE SECRET PRODUCT AND THE SECRET SHOULD OF THE SECRET SEC

IN THE MATTER OF THE HETOTAL CALLED BY THE OIL CONSERVATION COMMISSION OF NEW MEXICO FOR THE PURPOSE OF CONSIDERING:

> CASE NO. 5070 Order No. R-4643

APPLICATION OF AMOCO PRODUCTION COMPANY FOR APPROVAL OF THE BUBBLING SPRING UNIT AGREEMENT, EDDY COUNTY, NEW MEXICO.

#### ORDER OF THE COMMISSION

#### BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on October 3, 1973, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this 11th day of October, 1973, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

#### FINDS:

- (1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, Amoco Production Company, seeks approval of the Bubbling Spring Unit Agreement covering 3078.12 acres, more or less, of Federal and Fee lands described as follows:

## EDDY COUNTY, NEW MEXICO TOWNSHIP 20 SOUTH, RANGE 26 EAST, NMPM Section 21: E/2 Section 22: All Section 23: S/2 Section 26: N/2, SE/4, E/2 SW/4 and NW/4 SW/4 Coction 27: N/2 and N/2 S/2 Section 28: E/2 Section 35: E/2 and E/2 W/2

(3) That approval of the proposed unit agreement should promote the prevention of waste and the protection of correlative rights within the unit area.

Case No. 3970 Order No. 384643

#### IT IS THEREFORE ORDERED:

- (1) That the Bubbling Spring thit Agreement is notely approved.
- (2) That the plan contained in said unit agreement for the development and operation of the unit area is hereby approved in principle as a proper conservation measure; provided however, that notwithstanding any of the provisions contained in said unit agreement, this approval shall not be considered as waiving or relinguishing, in any manner, any right, duty, or obligation which is now, or may hereafter be, vested in the Commission to supervise and control operations for the exploration and development of any lands committed to the unit and production of oil or gas therefrom.
- (3) That the unit operator shall file with the Commission an executed original or executed counterpart of the unit agreement within 30 days after the effective date thereof; that in the event of subsequent joinder by any party or expansion or contraction of the unit area, the unit operator shall file with the Commission within 30 days thereafter counterparts of the unit agreement reflecting the subscription of those interests having joined or ratified.
- (4) That this order shall become effective upon the approval of said unit agreement by the Director of the United States Geological Survey; that this order shall terminate ipso facto upon the termination of said unit agreement; and that the last unit operator shall notify the Commission immediately in writing of such termination.
- (5) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

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

STATE OF NEW MEXICO OIL CONSERVATION COMMISSION

Y. R. TRUJIII.O, Chairman

Cley to famo

tek J. ARMIJO, Member

A. L. PORTER, Jr., Membar

M. L. PORLER,

Socretary

SEAL

dr/

#### ATWOOD, MALONE, MANN & COOTER LAWYERS

JEFF D. ATWOOD [1883-1960]

OIL CONSERVATION COMMERT A. JOHNSON
Santa Fo JOHN W. BASSETT ROBERT E. SABIN RUFUS E. THOMPSON

P. O. DRAWER 700 SECURITY NATIONAL BANK BUILDING ROSWELL, NEW MEXICO 88201 [505] 622-6221

September 25, 1973

Mr. A. L. Porter, Jr. Oil Conservation Commission State Land Office Building Santa Fe, New Mexico 87501

RE: No. 5070

Examiner Hearing for October 3, 1973

Dear Mr. Porter:

Would you please file the enclosed Entry of Appearance in the captioned case. The presentation will be handled by Guy Buell of Amoco Production Company's Houston office.

Appreciating your courtesy, and with our kind regards, I am,

Very truly your

Paul Cooter

PC:sas

cc: Guy Buell, Esquire



#### BEFORE THE OIL CONSERVATION COMMISSION

#### STATE OF NEW MEXICO

IN THE MATTER OF THE APPLICATION )
OF AMOCO PRODUCTION COMPANY FOR )
APPROVAL OF THE BUBBLING SPRING )
UNIT AREA, IN EDDY COUNTY, NEW )
MEXICO. ) No. 5070

#### ENTRY OF APPEARANCE

The undersigned Atwood, Malone, Mann & Cooter of Roswell, New Mexico, hereby enter their appearance herein for Amoco Production Company, with Guy Buell, Esquire, of Houston, Texas.

ATWOOD, MALONE, MANN & COOTER

P. O. Drawer 700

Roswell, New Mexico 88201

Attorneys for Amoco Production Company

#### DOCKET: E AMINER HEARING - WEDNESDAY - OCTOBER 3, 1973

9 A.M. - OIL CONSERVATION COMMISSION CONFERENCE ROOM, STATE LAND OFFICE BUILDING - SANTA FE, NEW MEXICO

The following cases will be heard before Richard L. Stamets, Examiner, or Daniel S. Nutter, Alternate Examiner:

- ALLOWABLE: (1) Consideration of the allowable production of gas for November, 1973, from seventeen prorated pools in Lea, Eddy, Roosevelt and Chaves Counties, New Mexico;
  - Consideration of the allowable production of gas from nine prorated pools in San Juan, Rio Arriba, and Sandoval Counties, New Mexico, for November, 1973.

#### CASE 5044: (Continued from the August 9, 1973, Examiner Hearing)

In the matter of the hearing called by the Oil Conservation Commission on its own motion to permit Sycor Newton, Peru Milling Company, R. E. Deming and Aetna Life and Casualty Company and all other interested parties to appear and show cause why the State L 6350 Well No. 1 located in Unit M of Section 10, Township 23 South, Range 11 West, Luna County, New Mexico, should not be plugged and abandoned in accordance with a Commission-approved plugging program.

Application of Sun Oil Company for a dual completion, Lea County, New CASE 5069: Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion of its Annie Christmas Well No. 1 located in Unit N of Section 1, Township 22 South, Range 37 East, Lea County, New Mexico, to produce gas from an undesignated Abo gas pool and oil from the Wantz-Granite Wash Pool through parallel strings of tubing.

> Application of Amoco Production Company for a unit agreement, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Bubbling Spring Unit Area comprising 3078 acres, more or less, of Federal and Fee lands in Township 20 South, Range 26 East, Eddy County, New Mexico.

Application of Texas West Oil & Gas Corporation for a dual completion, CASE 5071: Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion of its State "2" Well No. 2 located in Unit K of Section 2, Township 24 South, Range 34 East, Antelope Ridge Field Area, Lea County, New Mexico, to produce gas from the Atoka and Morrow formations through parallel strings of tubing.

Application of Northern Minerals, Inc. for a waterflood project, McKinley CASE 5072: County, New Mexico. Applicant, in the above-styled cause, seeks

CASE 5070:

#### (Case 5072 continued from Page 1)

authority to institute a pilot waterflood project by the injection of water into the Hospah sand of the Gallup formation in the open-hole interval from 734 feet to 744 feet in its Santa Fe Pacific Well No. 6-Y located 2013 feet from the North line and 2003 feet from the East line of Section 29, Township 16 North, Range 6 West, undesignated Gallup Pool, McKinley County, New Mexico.

#### CASE 5055: (Continued and Readvertised)

Application of Merrion & Bayless for downhole commingling, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Gallup, Greenhorn, and Dakota oil and gas production within the wellbore of the Canada Mesa Well No. 3 located in Unit A of Section 14, Township 24 North, Range 6 West, Devils Fork Field, Rio Arriba County, New Mexico.

CASE 5073: Application of Belco Petroleum Corporation for a non-standard gas proration unit, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for a 320-acre non-standard gas proration unit comprising the E/2 SW/4 and SE/4 of Section 30 and the N/2 NE/4 of Section 31, all in Township 20 South, Range 33 East, South Salt Lake Field, Lea County, New Mexico, to be dedicated to a well to be drilled either in the center of Unit 0 of said Section 30, or at an unorthodox location in the center of Unit P of said Section 30.

б

8

9

10

ĺĺ

12

13

14

15

16

17

18

19

20

21

23

24

MR. DERRYBERRY: Case 5070, Application of Amoco Production Company for a unit agreement, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Bubbling Spring Unit Area comprising 3078 acres, more or less, of Federal and Fee lands in Township 20 South, Range 26 East, Eddy County, New Mexico.

MR. STAMETS: Call next case 5070.

MR. STAMETS: Call for appearances in this case.

MR. BUELL: For Amoco Production Company, Guy Buell; and we have two witnesses, Mr. Examiner.

MR. STAMETS: Are there any other appearances in this case? If the witnesses will stand and be sworn.

MR. BUELL: Mr. Examiner, some of our geological exhibits are quite large, and I think it would be better to put them on the wall so you and your counselor can both see them. Our first witness is Mr. Anderson.

#### \*\*\*\*\*\*\*\*\*

#### JACK ANDERSON,

was called as a witness, and after being duly sworn, testified as follows:

#### DIRECT EXAMINATION

#### BY MR. BUELL:

Mr. Anderson, would you state your complete name, by whom you are employed and in what capacity and in what location, please,

# dearnley, meier & associates

2

3 0

	i	
4		participated in the negotiations that have resulted in the formation
5		of the Bubbling Spring Unit?
6	A	Yes, sir.
7	۵	All right, sir. In connection with your testimony, would you
8		direct your attention first to what has been identified as Amoco's
9		Exhibit 1 and please explain that Exhibit for the record?
iô	A	This is an Exhibit which is attached to the Unit Agreement which
11		outlines the acreage to be placed within the Bubbling Spring Unit.
12		On our Exhibit, you will notice that a portion of the acreage is
3		covered in green which represents the fee acreage located within
4		the unit boundary. The balance of the acreage is Federal acreage.
5	Ŭ	No State acreage in this particular unit?
6	A	That's correct.
7	Q	How many acres are in this unit?
8	A	3,078.12 acres.
9	Q	Would you describe the area of the unit for the record, please?
iû	A	All of the acreage is located in Township 20 South, Range 26 East.
1		It's the south half of Section 23, all of Section 22, the east half
2		of Section 21, the east half of Section 28, the north half of Section 27,
3		and also the north half of the south half of Section 27, the east half
4		of Section 26, the northwest quarter of Section 26, the north half
25		of the southwest quarter of Section 26, the southeast quarter of the

My name is Jack D. Anderson, employed by Amoco Production

All right, sir. And in your capacity with Amoco, have you

Company in Houston, Texas, as a Land Man.

1		southwest quarter of Section 26. In Section 35, it's the east half
2		and the east half of the west half.
3	Q	All right. Now, Mr. Anderson, this appears to be a rather
4		irregular shaped unit. Will the reason for that be covered in our
5		geological testimony?
6	A	Yes. I might briefly just state that this particular area was in
7		a unit prior to this. It was the Adams Bend Unit which Amoco
8		Production formed. We drilled a well in the north half of Section 23,
9		and it was dry. Then Gulf Oil formed a unit which they called
10		a Springs Unit encompassing the same acreage.
11		The reason for the irregular description is that the
12		south part of the section or the south part of this area is in the
13	ŧ	Spring Unit participating area. The balance of the acreage has
14		been eliminated from the Spring Unit. That's why it's so irregular.
15	Ω	So the odd shape in the northeast corner is due to a dry hole drilled
16		in that acreage?
17	A	Yes.
18	Ω	And the odd shape on the southwest portion is due to a parking
19		area that you explained?
20	A	Yes.
21	Ω	Who are the working interest owners in this area?
22	A	Amoco, Phillips, Gulf, Cities Service, and Tosorro.
23	D D	What is the status of Sign-up or Commitment to the unit with
24	+	regard to the working interest owners?
25	A	We have received Tosorro's commitment, actually an executed

18

19

20

21

22

24

25

-		PAGE 6
1		instrument. The other working interest owners have been
2		contacted several times and have all agreed to the formation
3		of this unit. The papers are in their offices now being executed.
4		We have had no turn-downs on it.
5	ည	So you would anticipate that in very short order we will have
6		all the working interest owners committed?
7	A	Yes, sir.
8	Q	Is there any particular time contingency we are concerned with
9		in this particular unit, Mr. Anderson?
10	A	Yes. When the acreage was eliminated or the Springs Unit, I should
11		say, was contracted, this acreage was eliminated and has an
12		expiration date of January 1, 1974. That's the majority of the
13		acreage in our outline.
14		The acreage in the unit has been extended beyond the
15		primary term as a result of having been in a producing unit. So
16		our understanding is that these Federal leases are now
17		completion-type leases and that we will have to have production

established prior to January 1, 1974. For this reason, we feel we must start work by November 1 of this year. In other words, just commencing operations will not keep the

- operation together? We have got to drill and complete a well capable of production by January 1, 1974?
- 23 Yes, sir.
  - Let's talk about the royalty owners for a minute. Of course, we Q have the Federal Government as a royalty owner. What is the

2

5

б

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

Q

status of the Federal Government with regard to this unit?
We have requested preliminary approval. It's been processed
through the USGS office in Roswell to their Denver office. We
were in contact with them this morning by phone and advised
that they have designated this as a logical area and put the
correspondence in the mail October 1. We have not received
it, but it's in the mail.
Is that what you Land Men sometimes refer to as preliminary
approval?
Yes, sir.
All might gir. What shout the royalty owners under the for

All right, sir. What about the royalty owners under the fee tract? What is their status with regard to sign-up?

We have had, let's see, there were four royalty owners under the fee tracts. We have received a ratification from one of those parties. The other three, we have not heard from.

But none of them have refused to execute the Unit Agreement?

That's correct.

Q All right, sir. Are there any overriding royalty owners under any of this acreage?

Yes. There are 20 overriding royalty owners.

Ω State for the record what the status of that interest commitment

We have received ratifications from ten of them. It would be 50 percent, and we have received no rejections.

Would you also anticipate based on your past experience with

exploratory units in this area that you stand a good chance of

Yes. Looking back on the other unit that we formed, I believe

that all of them executed. If not, it was a very, very small

getting commitments from the remainder of the overriding

## dearnley, meier & associates

5

6

29 SIMMS BLDG. # P.D. BOX 1092 # PHONE 243-8681 # ALBUQUERQUE, NEW MEXICO 87103 1216 FIRST NATIONAL BANK BLDG. EAST # ALBUQUERQUE, NEW MEXICO 87108

25

7 All right, sir. Have you indicated on your Exhibit 1 the Q 8 approximate location of the initial test well for this unit? 9 Α Yes, sir. 10 Q How have you located that, with that red arrow? 11 Α Yes. 12 Would you give the feetage location of that? Q 1980 feet from the north and west lines of Section 26, Township 20 13 A 14 South, Range 26 East. 15 All right, sir. Would you turn your attention now, Mr. Anderson, Ω 16 to what has been identified as Amoco's Exhibit 2? What is that 17 exhibit? 18 This is the Unit Agreement prepared in accordance with the 19 1968 reprint. It's a form suggested by the Federal Government 20 to be used in the forming of exploratory units. 21 So I guess you could refer to that almost as a standard Federal 0 22 form? Yes, sir. 23 A Have there been any changes in this agreement since we mailed 24 Q

the Oil Commission a copy some several weeks ago?

royalty interest owners?

percent that did not.

NEW MEXICO 87103

25

questions I have of this witness.

No, sir. I don't believe there has been any changes. Α 2 Q All right, sir. Do you have anything else you'd care to add 3 in connection with your phase of this hearing, Mr. Anderson? Α No, sir. 5 MR. BUELL: That is all we have by way of б direct examination of Mr. Anderson at this time, Mr. Examiner. 7 8 CROSS-EXAMINATION 9 BY MR. STAMETS: 16 Q Mr. Anderson, these questions may not be properly directed to 11 you, and if not, I'd be happy to ask your next witness. Do you 12 know what acreage will be dedicated to the proposed well? 13 I believe with the location that's spotted, I don't think that we 14 have made the decision; but I would think it would be the north 15 half of Section 26. 16 Are you aware that there could be acreage dedication problems 17 If you would attempt to dedicate less than 320 acres to a well 18 to be drilled to the Pennsylvanian? For instance, in the southwest 19 quarter of Section 26 and the southwest half of 27. 20 Yes, sir. We do. 21 This might take a communitization with non-unit acreage? 22 Yes, sir. That acreage, of course, is in the Springs Unit. That's 23 what we are referring to. 24 MR. STAMETS: All right, fine. That's all the

2

3

5

6

7

8

9

Q

A

Q

24

PAGE 10 MR. BUELL: All right, sir. We'd like to call next Mr. Gaizutis, G-a-i-z-u-t-i-s. Did I get it right? THE WITNESS: Yes, sir. \*\*\*\*\*\*\* K. J. GAIZUTIS, was called as a witness, and after being duly sworn, testified as follows: DIRECT EXAMINATION BY MR. BUELL: Would you state your complete name for the record, please, by whom you are employed and in what capacity and in what location? My name is K. J. Gaizutis. I'm a geologist with Amoco Production Company in Houston, Texas; and I've been with them for five and a half years. Mr. Gaizutis, your qualifications as a geologist are a matter of public record in that you have testified before this Commission before? Yes. But you might briefly just state the depth of your experience in this particular area of Southeast New Mexico. I've been involved in this particular area for approximately two years and was involved in the sandstone place in the Gulf zone prior to that.

All right, sir. Now, with regard to your testimony let me direct

Q

Α

SIMMS BLOG. \* 9.0. BOX 1092 \* PHONE 243-66914 ALBUQUERQUE, NEW MEXICO 87103 1216 First national bank blog. East \* Albuquerque, New Mexico #1.08 your attention first to what has been identified as Amoco's Exhibit 3. What is that exhibit, Mr. Gaizutis?

That is a structure map on top of the middle Morrow or the upper clastic sand. It is also an isopachous map constructed and colored in orange that has overlaid the structure map.

The isopach refers to the middle Morrow horizon which we will refer to in the Sections.

Our designation is based on delineating the Morrow into three sections, the upper section being primarily a carbonate and the two lower zones being primarily clastic. This is what would be considered the uppermost clastic section in the Morrow. So we can orient the Examiner, are there any producing pools shown on the area that you have included in your Exhibit 3? Yes. Let me just briefly state that this is approximately northwest of the City of Carlsbad for reference. To the south, we have Catclaw Draw and Golden Eagle, I believe. I don't know if they have been shown. Since the two fields have merged, I don't know for sure what the designation of the over-all pool is now.

I refer to it as Catclaw Draw. To the north and west of our proposed unit, we have McMillan Morrow; and immediately to the south of our unit is the Springs Unit wells out of the Cisco Canyon.

All right, sir. Have you designated our proposed unit area on Exhibit 3?

The outline of the area is placed with flourescent tape, the orange

209 SIMMS BLDG. P.J. BOX 1092 PHONE 241-6691 ALBUQUERQUE. NEW MEXICO 87103	1216 FIRST NATIONAL BANK BLDG. EAST GALBUQUERQUE, NEW MEXICO 87108	
209 50	2	

		PAGE 12
1		flourescent tape.
2	0	All right, sir. Mr. Anderson previously touched on this in
3		his testimony, but I wish you would emphasize again the reason
4		for the shape of this unit.
. 5	A	Well, to the immediate east of our proposed unit we have two
6		dry holes that penetrated the Morrow section, the Skelly well
7		in Section 25 of 20, 26, and the Richfield McMillan well in
8		Section 36.
9	۵	All right, sir. Why do we have the little notch on the northeast
10		corner?
11	A	We have the Pan American Adams Bend dry hole.
12	Ω	All right, sir. Can we see on this Exhibit the outline of the
13		older unit that Mr. Anderson referred to?
14	A	Yes, sir. The older unit is, well, I guess it's a stamped outline.
15	Ω	In blue?
16	A	In blue, yes.
17	Ω	Of course, where your original tape overlays that, that portion
18		also was in the original old unit?
19	A	Right, and cannot be seen because it's under the tape.
20	Ω	All right, sir. Do you have any other remarks you'd like to make
21		about Exhibit 3 before we move on to your cross-section?
22	A	Well, let me just briefly touch on the geologic importance of
23		this. For one, the structural map, the contour lines are 100-foot
24		intervals in blue and indicate a structural nose coming approximately
25		through our area of interest and extending down into the Catclew

2

3

5

б

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

Q

209 SIMMS BLDG.-P.O. BOX 1092-PHONE 243-5601-ALBUQUERQUE, NEW MEXICO 87103 1216 FIRST NATIONAL BANK BLDG. EAST-ALBUQUERQUE, NEW MEXICO 87108

Draw field to the south.

I have isopached the middle Morrow clastic section and have shown it as a type example of what we are expecting in the area. We show an isopach central contour line going from 70 to 40 feet. However, I want to make note that the Skelly well in Section 25 had 130 feet of Morrow sand.

Immediately to the north, the Pan American well, the Adams Bend, had 35 feet. This is to highlight the stratigraphic variation in the area, and this is what we will be referring to as the pinch-out that we hope to catch production along here. I think we can refer to the Section AB which I believe is Exhibit --I believe that's Exhibit 4.

4. The AB cross-section is a stratigraphic section which is hung on the top of the Morrow sand, the same horizon that is used for mapping, for structural configuration of the area.

In it, we can see that the Middle Morrow Section which is delineated by lettering, as well as the orange coloration, changes dramatically from a very thick massive sand. Sample logs describe it as a conglomeratic very coarse sand zone to a very thin -type sand at the Adams Bend.

We are going a distance of about a mile. We have approximately three little zones of ten feet, ten feet and five feet in this middle section. So there is an abrupt change between the Skelly No. D and the Pan American Adams Bend. At the same time, let me point out the structural values that are indicated

STREET NATIONAL BANK BLDG. EAST-ALBUQUERQUE, NEW MEXICO 87:08

immediately under the line connecting the top of the Middle Morrow.

The Adams Bend is at minus 6736, and the Skelly well is at 6903, since we have around 200 feet of structural advantage in the updip pinch-out position we were interpreting as a pinch-out. The other objective in the Morrow which we have not highlighted on our Exhibit map that showed the structure and the isopachous is also depicted in this cross-section.

The Skelly well did not penetrate the basin sand or what we call our lower Morrow sand, but it was penetrated in the Kelly Lake McMillan well. In it, we had a good 80 feet of section, also, apparently quite coarse-grained from sample descriptions.

It was not encountered in the Skelly well, but in our well, the Adams Bend well, it was also very thin and about 10 feet of sand. Both of the, or I should say, that zone and a small zone above it were wire-line tested in 1958 and recovered a slight amount of gas and a slight amount of water. We feel now that the water that it recovered was not formation water and that the Skelly well that was drilled in 1970 has in fact pointed out the stratigraphic implications in the area.

Our feeling is that this should therefore be a productive area and possibly continue the McMillan and Morrow projection which is also out of the middle sand which is delineated on the first Exhibit with the orange coloration, should connect that on production in Catclaw Draw that occurs in the middle Morrow sand.

б

Q

Q

In addition, we have the basin sand or lower Morrow sand conjective also present. I have not isopached it because of its random character in this area. The middle Morrow tends to have some continuity and some implicit trendology to it. This is a net clean sand that we are referring to.

- Let me ask you this, Mr. Gaizutis. I'm referring now to the Skelly well on the middle log on the cross-section. Why in your opinion was this well not productive when it does have such a massive sand interval?
- Well, it encountered quite a bit of water on DST's. On the upper DST that tested 10,225 to 300, it recovered 240 feet of gas-cut mud plus on the lower, I'm sorry, on the lower one it recovered 2,000 feet of salt water.

So we feel that even though the lower one recovered salt water, the producing pressures are quite high. 3967 pounds, that is quite a good reservoir. We are looking at shows of gas wet in this well as well as in the McMillan well where it recovered 1700 feet of heavily oil-cut mud and 3500 feet of salt water.

We are looking at downdip wells that are wet with a show of gas and an updip well that is tight and obviously does not have the porosity that was required to make a producer. Our location is a projection along this section at a position where we feel we will catch a productive porous interval.

In other words, you think you will have porosity and also be high enough to be above the water that the Skelly well we have been

discussing encountered?

Yes.

2

3

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

Q All right, sir. Do you have any other comments on Exhibit 4 before we pass on to Exhibit 5?

No, sir.

All right, sir. Would you briefly describe what has been identified as Amoco's Exhibit 5?

A Exhibit 5 is a cross-section A-A' which is spotted on the Exhibit 3 Structure Map, and has been identified as A-A1 and shown by red lines. The purpose of this cross-section is to show again our Adams Bend well that was tight which is on this cross-section to the extreme left-hand side and to show the production in McMillan field.

The production in McMillan field as you can see is out of a thicker sequence of sand as we have seen in the Skelly well and completed in the Cities Service CJ #1 for five million and completed in the Sohio 1-19 for 33.2 million.

Again, let me point out on this cross-section the structural values that are indicated on top of the middle Morrow sand section, here again implying to us that we have around 200 feet of structural advantage as we go from the Cities Service well to the east to the Adams Bend well to the west that is just north of our unit.

So that wells to the south and to the east, we are dropping off structurally some 200 feet. In this case, we are dropping off

to production. To the south, we are dropping off to water, so that we feel part of the answers here, of course, are stratigraphic variability; but it may also be lack of adequate testing in the Skelly well; but we feel that in any event we are going updip to production to the north and east and updip to a wet test to the southeast.

- All right, sir. Do you have any other comments on Exhibit 5? Q A
- No, that's about it.

1

2

3

4

5

6

7

8

9

19

11

12

13

14

15

16

17

23

24

25

- All right, sir. Let's put Exhibit 6 up on the wall and I'll ask Q you to very briefly comment on it since it more or less is a cumulative of the work you have shown.
- Exhibit 6 is a cross-section C-C' and it's included for completeness in the area showing the southern boundaries, showing the Morrow control to the south of our proposed interest. As you can see, none of the wells in the Springs Unit drill deep enough to encounter the Morrow section. So our control lies, I'm sorry, one well did drill deep enough.

Most of the control is outside of the Springs Unit on the south. The reason to show this is that our control to the west of the Unit is the Humble Willow Draw well that tested a small zone and recovered 470 mcf of gas and was not tested further. Apparently from our log calculations, it was tight.

This has so-served as a reference to the west why we have excluded the acreage in this direction from our unit and to show the reasoning for the isopach variability, too, in that direction, б

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

Ω	In your opinion, are the prospects good for middle Morrow or
	lower Morrow production within our proposed Bubbling Springs
	Unit?

- Yes, I believe they are excellent.
- Q Do you have anything else you would care to add at this time?
- A No. I think that we are looking at an area between two fields that in the past have developed, enlarged the Catclaw Draw field in the south and in the last two years extended to where it's connected to individual producing wells; and I think we will see the same thing happen to the north.

I think it's imperative that we do have a well drilled in there to test this hypothesis and to adequately provide reserves in the area.

MR. BUELL: May it please the Examiner, that concludes our direct presentation. I would like to formally offer Amoco's Exhibits 1 through 6.

MR. STAMETS: Without objection, these exhibits will be admitted into evidence. Are there questions of the witness?

### CROSS-EXAMINATION

### BY MR. STAMETS:

Mr. Gaizutis, looking at your Exhibit 3 here, it would appear that the unit is designed to take into account both the structure and stratigraphy to try and take into the unit everything that would be reasonably productive of gas from the middle Morrow here?

A Yes.

б

2i

MR. STAMETS: Are there any other questions of this witness? He may be excused. Is there anything further?

MR. BUELL: No. sir, Mr. Examiner.

MR. STAMETS: Are there any other appearances in this case? The case will be taken under advisement. We will take about ten minutes for coffee or fifteen maybe.

(Whereupon, the hearing was recessed for fifteen minutes.)

\*\*\*\*\*\*\*

### CERTIFICATE

I, JANET RUSSELL, a Court Reporter, in and for the County of Bernalillo, State of New Mexico, do hereby certify that the foregoing and attached Transcript of Hearing before the New Mexico Oil Conservation Commission was reported by me; and that the same is a true and correct record of the said proceedings to the best of my knowledge, skill and ability.

COURT REPORTER

New Mexico Oil Conservation Commission

QUE. NEW MEXICO 87103	; NEW MEXICO 87108	
PHONE 243-6691+ALBUQUER	3LDG. EAST•ALBUQUERQUE	
JOS CILMA BI DG. BO. 1092 BPHONE 243-66916 ALBUQUERQUE. NEW MEXICO 87103	1216 FIRST NATIONAL BANK BLDG. EAST . ALBUQUERQUE, NEW MEXICO 87108	

1	INDEX	
2	WITNESS,	
3	JACK ANDERSON I	Page
4	Direct Examination by Mr. Buell	3
5	Cross-Examination by Mr. Stamets	9
6	WITNESS,	
7	K. J. GAIZUTIS	
8	Direct Examination by Mr. Buell	10
9	Cross-Examination by Mr. Stamets	18
10		
11		٠
12	EXHIBITS	

### EXHIBITS

i				
13	Applicant's		Offered	Admitted
14	Exhibit l	Acreage outline	18	18
15	Exhibit 2	Unit Agreement form	18	18
1¢	Exhibit 3	Structure map	18	18
17	Exhibit 4	Map	18	18
18	Exhibit 5	Map	18	18
19	Exhibit 6	Map	18	18
20		- 		
	-			



### **OIL CONSERVATION COMMISSION**

STATE OF NEW MEXICO P. O. BOX 2088 - SANTA FE 87501

October 15, 1973

I. R. TRUJILLO CHAIRMAN LAND COMMISSIONER

ALEX J. ARMIJO MEMBER STATE GEOLOGIST

A. L. PORTER, JR. SECRETARY - DIRECTOR

Λ.	Re:	CASE NO.	5970
Mr. Guy Buell		ORDER NO.	R-4643
Amoco Production Company Post Office Box 3092		Applicant:	
Houston, Texas 77001		Amoco Pro	duction Co.
•		V- 2	

Dear Sir:

Enclosed herewith are two copies of the above-referenced Commission order recently entered in the subject case.

Very truly yours,

A. L. PORTER, Jr. Secretary-Director

ALP/ir		$\phi = x$		
Copy of order	also se	nt to:		
Hobbs OCCArtesia OCCAztec OCC	x			
Other	Unit	Division		<del></del>



### United States Department of the Interior

### GEOLOGICAL SURVEY

OCT 1 1973

Amoco Production Company
Attention: Nr. C. N. Menninger
P. O. Box 3092
Houston, Texas 77001

Gentlemen:

Your application of August 31, filed with the Area Dil and Gas Supervisor, Roswell, New Mexico, on September 7, requests the designation of the Bubbling Spring unit area embracing 3,078.12 acres, more or less, Eddy County, New Maxico, as logically subject to exploration and development under the unitization provisions of the Mineral Lessing Act as amended.

Pursuant to unit plan regulations of December 20, 1950, 30 CFR 226.3 (1968 reprint), the land requested as outlined on your plat marked "Exhibit A, Bubbling Spring Unit Agreement, Eddy County, New Mexico," is hereby designated as a logical unit area.

The unit agreement submitted for the area designated should provide for the drilling of the initial exploratory well to test all of the formations of Fermsylvanian age or to a depth of 10,400 feet. As proposed by your application, the form of agreement for unproved areas (1968 reprint) should be used and modified to apply to fee ands and Federal lands under the jurisdiction of the Europu of Reclamation.

In the absence of any other type of land requiring special provisions or any objections not have apparent, a duly executed agreement identical to the 1968 reprint, modified only as outlined above, will be approved if submitted in approvable status within a reasonable period of time. However, the right is reserved to dany approval of any executed agreement which, in our opinion, does not have full commitment of sufficient lands to afford effective control of operations in the unit area.

When the executed agreement is transmitted to the Supervisor for approval, include the latest status of all acreage. The format of the sample exhibits attached to the 1968 reprint of the standard form should be followed closely in the preparation of exhibits A and B.

Sincerely yours,

ORIG, SGD. G. H. HUKA

Conservation Manager, Central Region For the Director

W ...

CC:
RIM, Santa Fe (u/cy of Ex. A)
N.M.O.C.C., Santa Fe/
Roswell (2)
Denver Chron. File
Cons. Div; Chron. File
CD Reading File

REShook: 1h:9-14-73

### SERIALS:

Las	Cruces	070032-В 071847	New Mexico	038124 038124-A
		071847-A		<b>Ū</b> 283953~Å
New	Mexi.co	03215		0338758
		03215-A		0426336
		03217	BIM-A	-026872
		03217-A		026872-A
		03365		032236-B
		03365-A		· · • · · · ·



J. C. Burton Division Engineer Chin 5070

**Amoco Production Company** 

500 Jefferson Building P.O. Box 3092 Houston, Texas 77001

September 7, 1973

File: JHP-986.51NM-4740

Re: Bubbling Spring Unit

Eddy County, New Mexico

Mr. A. L. Porter, Jr. (3)
New Mexico Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico 87501

Dear Sir:

Please docket a hearing at the earliest possible date to consider Amoco Production Company's application for approval of the Bubbling Spring Unit. The Unit area comprises 3,078 acres, more or less, of Federal and fee lands all located in T20S, R26E, Eddy County, New Mexico. A copy of the proposed Unit Agreement is attached.

Very truly yours,

2. Bustin m

GTB : as

Attachment



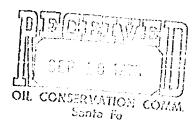
Chr. 5076

### **Amoco Production Company**

500 Jefferson Building P.O. Box 3092 Houston, Texas 77001

J. C. Burton Division Engineer

September 7, 1973



File: JHP-986.51NM-4740

Re:

Bubbling Spring Unit Eddy County, New Mexico

Mr. A. L. Porter, Jr. (3) New Mexico Oil Conservation Commission P. O. Box 2088 Santa Fe, New Mexico 87501

Dear Sir:

Please docket a hearing at the earliest possible date to consider Amoco Production Company's application for approval of the Bubbling Spring Unit. The Unit area comprises 3,078 acres, more or less, of Federal and fee lands all located in T20S, R26E, Eddy County, New Mexico. A copy of the proposed Unit Agreement is attached.

Very truly yours,

Burtin m

GTB:as

Attachment

**DOCKET MAILED** 

Date 9-21-13

### CERTIFICATION--DETERMINATION

Pursuant to the authority vested in the Secretary of Interior, under the act approved February 25, 1920, 41 Stat. 437, as amended, 30 U. S. C. secs. 181, et seq., and delegated to the Area Oil and Gas Supervisors of the Geological Survey, I do hereby:

- A. Approve the attached agreement for the development and operation of the Bubbling Spring Unit Area, State of New Mexico.
- B. Certify and determine that the unit plan of development and operation contemplated in the attached agreement is necessary and advisable in the public interest for the purpose of more properly conserving the natural resources.
- C. Certify and determine that the drilling, producing, rental, minimum royalty, and royalty requirements of all Federal leases committed to said agreement are hereby established, altered, changed, or revoked to conform with the terms and conditions of this agreement.

•	Dated			
		•		
			Area Oil and Gas Supervisor United States Geological Survey	
•	<i>1</i> %)			
ontract	Number	•		

BEFORE DXM SITER STANTAS
OIL CONVENTION 2

CATALLO SO70
Secured A Moe o

Heading Data 10-3-73

### UNIT AGREEMENT FOR THE DEVELOPMENT AND OPERATION OF THE BUBBLING SPRING UNIT AREA COUNTY OF FDRY, STATE OF NEW MEXICO

### INDEX

Section	Title	Page
	Preliminary Recitals	1
]	ENABLING ACT AND REGULATIONS	2
2 3	UNIT AREA UNITIZED LAND AND UNITIZED SUBSTANCES	2 5 5 6
3 4	UNIT OPERATOR	, D
5	RESIGNATION OR REMOVAL OF UNIT OPERATOR	6
6	SUCCESSOR UNIT OPERATOR	7
7	ACCOUNTING PROVISIONS AND UNIT OPERATING AGREEMENT	8
8	RIGHTS AND OBLIGATIONS OF UNIT OPERATOR	8
9	DRILLING TO DISCOVERY	9
ıó	PLAN OF FURTHER DEVELOPMENT AND OPERATION	ıó
ii	PARTICIPATION AFTER DISCOVERY	ii
12	ALLOCATION OF PRODUCTION.	13
13	DEVELOPMENT OR OPERATION OF NON-PARTICIPATING	
	LAND OR FORMATIONS	14
14	ROYALTY SETTLEMENT	15
15	RENTAL SETTLEMENT	16
16	CONSERVATION	17
17	DRAINAGE	17
18	LEASES AND CONTRACTS CONFORMED AND EXTENDED	17
19	COVENANTS RUN WITH LAND	20
20	EFFECTIVE DATE AND TERM	21
21	RATE OF PROSPECTING, DEVELOPMENT AND PRODUCTION	22.
22	APPEARANCES	22
23	NOTICES	23
24	NO WAIVER OF CERTAIN RIGHTS	23
25	UNAVOTDABLE DELAY	23
26	NONDISCRIMINATION	. 24
27	LOSS OF TITLE	24
28	NON-JOINDER AND SUBSEQUENT JOINDER	24
29	COUNTERPARTS	25
30	SURRENDER	26
31	TAXES	27
32	NO PARTNERSHIP	28
33	SURFACE MANAGEMENT STIPULATION	28
34	RECLAMATION LANDS	28
•	Exhib: t "A" (Map)	
	Exhibit "B" (Description of interests subject to agre	ement)

# 1 UNIT AGREEMENT 2 FOR THE DEVELOPMENT AND OPERATION 3 OF THE 4 BUBBLING SPRING UNIT AREA 5 COUNTY OF EDDY 6 STATE OF NEW MEXICO 7 NO.\_\_\_\_\_\_ 8 THIS AGREEMENT, entered into as of the \_lst\_\_ day of 9 August\_\_\_\_\_, 19\_73\_, by and between the parties subscribing,

hereto,"

·

WHEREAS the parties hereto are the owners of working, royalty, or other oil and gas interests in the unit area subject to this agreement; and

ratifying, or consenting hereto, and herein referred to as the "parties

WITNESSETH:

WHEREAS the Mineral Leasing Act of February 25, 1920, 41 Stat.

437, as amended, 30 U.S.C. Secs. 181 et seq., authorizes Federal lessees and their representatives to unite with each other, or jointly or separately with others, in collectively adopting and operating a cooperative or unit plan of development or operation of any oil or gas pool, field, or like area, or any part thereof for the purpose of more properly conserving the natural resources thereof whenever determined and certified by the Secretary of the Interior to be necessary or advisable in the public interest; and

WHEREAS the Oil Conservation Commission of the State of New Mexico is authorized by an Act of the Legislature (Chapter 72, Laws of 1935, as amended by Chapter 193, Laws of 1937; Chapter 166, Laws of 1941; and Chapter 168, Laws of 1949) to approve this agreement and the conservation provisions hereof; and

WHEREAS the parties hereto hold sufficient interests in the Bubbling Spring Unit Area covering the land hereinafter described to give reasonably effective control of operations therein; and

WHEREAS, it is the purpose of the parties hereto to conserve natural resources, prevent waste, and secure other benefits obtainable through development and operation of the area subject to this agreement under the terms, conditions, and limitations herein set forth;

NOW, THEREFORE, in consideration of the premises and the promises herein contained, the parties hereto commit to this agreement their respective interests in the below-defined unit area, and agree severally among themselves as follows:

- 1. ENABLING ACT AND REGULATIONS. The Mineral Leasing Act of February 25, 1920, as amended, supra, and all valid pertinent regulations, including operating and unit plan regulations, heretofore issued thereunder or valid, pertinent, and reasonable regulations hereafter issued thereunder are accepted and made a part of this agreement as to Federal lands, provided such regulations are not inconsistent with the terms of this agreement; and as to non-Federal lands, the oil and gas operating regulations in effect as of the effective date hereof governing drilling and producing operations, not inconsistent with the terms hereof or the laws of the State in which the non-Federal land is located, are hereby accepted and made a part of this agreement.

Exhibit "A" shows, in addition to the boundary of the unit area, the boundaries and identity of tracts and leases in said area to the extent known to the Unit Operator. Exhibit "B" attached hereto is a schedule showing to the extent known to the Unit Operator the acreage, percentage, and kind of ownership of oil and gas interests in all land in the unit area. However, nothing herein or in said schedule or map shall be construed as a representation by any party hereto as to the ownership of any interest other than such interest or interests as are shown in said map or schedule as owned by such party. Exhibits "A"

and "B" shall be revised by the Unit Operator whenever changes in the unit area render such revision necessary, or when requested by the Oil and Gas Supervisor, hereinafter referred to as "Supervisor" and not less than five copies of the revised exhibits shall be filed with the Supervisor and one copy with the New Mexico Oil Conservation Commission, hereinafter referred to as "State Commission".

. 5

28.

The above-described unit area shall when practicable be expanded to include therein any additional lands or shall be contracted to exclude lands whenever such expansion or contraction is deemed to be necessary or advisable to conform with the purposes of this agreement. Such expansion or contraction shall be effected in the following manner:

- (a) Unit Operator, on its own motion or on demand of the Director of the Geological Survey, hereinafter referred to as "Director", after preliminary concurrence by the Director, shall prepare a notice of proposed expansion or contraction describing the contemplated changes in the boundaries of the unit area, the reasons therefor, and the proposed effective date thereof, preferably the first day of a month subsequent to the date of notice.
- (b) Said notice shall be delivered to the Supervisor, and the State Commission and copies thereof mailed to the last known address of each working interest owner, lessee, and lessor whose interests are affected, advising that 30 days will be allowed for submission to the Unit Operator of any objections.
- (c) Upon expiration of the 30-day period provided in the preceding item (b) hereof, Unit Operator shall file with the Supervisor and the State Commission evidence of mailing of the notice of expansion or contraction and a copy of any objections thereto which have been filed with the Unit Operator, together with an application in sufficient number, for approval of such expansion or contraction and with appropriate joinders.
- (d) After due consideration of all pertinent information, the

expansion or contraction shall, upon approval by the Supervisor, become effective as of the date prescribed in the notice thereof.

3

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27.

28

29

30

.31

(e) All legal subdivisions of lands (1.e., 40 acres by Government survey or its nearest lot or tract equivalent; in instances of irregular surveys unusually large lots or tracts shall be considered in multiples of 40 acres or the nearest aliquot equivalent thereof), no parts of which are entitled to be in a participating area on or before the fifth anniversary of the effective date of the first initial participating area established under this unit agreement, shall be eliminated autcmatically from this agreement, effective as of said fifth anniversary, and such lands shall no longer be a part of the unit area and shall no longer be subject to this agreement, unless diligent drilling operations are in progress on unitized lands not entitled to participation on said fifth anniversary, in which event all such lands shall remain subject hereto for so long as such drilling operations are continued diligently, with not more than 90 days' time elapsing between the completion of one such well and the commencement of the next such well. All legal subdivisions of lands not entitled to be in a participating area within 10 years after the effective date of the first initial participating area approved under this agreement shall be automatically eliminated from this agreement as of said tenth anniversary. All lands proved productive by diligent drilling operations after the aforesaid 5-year period shall become participating in the same manner as during said 5-year period. However, when such diligent drilling operations cease, all nonparticipating lands shall be automatically eliminated effective as of the 91st day thereafter. The unit operator shall within 90 days after the effective date of any elimination hereunder, describe the area so eliminated

to the satisfaction of the Supervisor and promptly notify all parties in interest.

If conditions warrant extension of the 10-year period specified in this subsection 2(e), a single extension of not to exceed 2 years may be accomplished by consent of the owners of 90% of the working interests in the current non-participating unitized lands and the owners of 60% of the basic royalty interests (exclusive of the basic royalty interests of the United States) in nonparticipating unitized lands with approval of the Director, provided such extension application is submitted to the Director not later than 60 days prior to the expiration of said 10-year period.

Any expansion of the unit area pursuant to this section which embraces lands theretofore eliminated pursuant to this subsection 2(e) shall not be considered automatic commitment or recommitment of such lands.

- 3. UNITIZED LAND AND UNITIZED SUBSTANCES. All land committed to this agreement shall constitute land referred to herein as "unitized land" or "land subject to this agreement." All oil and gas in any and all formations of the unitized land are unitized under the terms of this agreement and herein are called "unitized substances."
- 4. UNIT OPERATOR. Annoco Production Company is hereby designated as Unit Operator and by signature hereto as Unit Operator agrees and consents to accept the duties and obligations of Unit Operator for the discovery, development, and production of unitized substances as herein provided. Whenever reference is made herein to the Unit Operator, such reference means the Unit Operator acting in that capacity and not as an owner of interest in unitized substances, and the term "working"

interest owner" when used herein shall include or refer to Unit Operator as the owner of a working interest when such an interest is owned by it.

.19 -

5. RESIGNATION OR REMOVAL OF UNIT OPERATOR. Unit Operator shall have the right to resign at any time prior to the establishment of a participating area or areas hereunder, but such resignation shall not become effective so as to release Unit Operator from the duties and obligations of Unit Operator and terminate Unit Operator's rights as such for a period of 6 months after notice of intention to resign has been served by Unit Operator on all working interest owners and the Supervisor, and until all wells then drilled hereunder are placed in a satisfactory condition for suspension or abandonment whichever is required by the Supervisor, unless a new Unit Operator shall have been selected and approved and shall have taken over and assumed the duties and obligations of Unit Operator prior to the expiration of said period.

Unit Operator shall have the right to resign in like manner and subject to like limitations as above provided at any time a participating area established hereunder is in existence, but, in all instances of resignation or removal, until a successor unit operator is selected and approved as hereinafter provided, the working interest owners shall be jointly responsible for performance of the duties of unit operator, and shall not later than 30 days before such resignation or removal becomes effective appoint a common agent to represent them in any action to be taken hereunder.

The resignation of Unit Operator shall not release Unit Operator from any liability for any default by it hereunder occurring prior to the effective date of its resignation.

The Unit Operator may, upon default or failure in the performance of its duties or obligations hereunder, be subject to removal by the same percentage vote of the owners of working interests as herein provided for the selection of a new Unit Operator. Such removal shall be effective upon notice thereof to the Supervisor.

The resignation or removal of Unit Operator under this agreement shall not terminate its right, title, or interest as the owner of a working interest or other interest in unitized substances, but upon the resignation or removal of Unit Operator becoming effective, such Unit Operator shall deliver possession of all wells, equipment, materials, and appurtenances used in conducting the unit operations to the new duly qualified successor Unit Operator or to the common agent, if no such new Unit Operator is elected, to be used for the purpose of conducting unit operations hereunder. Nothing herein shall be construed as authorizing removal of any material, equipment and appurtenances needed for the preservation of any wells.

25.

- 6. SUCCESSOR UNIT OPERATOR. Whenever the Unit Operator shall tender his or its resignation as Unit Operator or shall be removed as hereinabove provided, or a change of Unit Operator is negotiated by working interest owners, the owners of the working interests in the participating area or areas according to their respective acreage interests in such participating area or areas, or, until a participating area shall have been established, the owners of the working interest according to their respective acreage interests in all unitized land, shall by majority vote select a successor Unit Operator: Provided, That, if a majority but less than 75 percent of the working interests qualified to vote are owned by one party to this agreement, a concurring vote of one or more additional working interest owners shall be required to select a new operator. Such selection shall not become effective until:
  - (a) A Unit Operator so selected shall accept in writing the duties and responsibilities of Unit Operator, and
- (b) The selection shall have been approved it the Supervisor.

  If no successor Unit Operator is selected and qualified as herein provided, the Director at his election may declare this unit agreement terminated.

ACCOUNTING PROVISIONS AND UNIT OPERATING AGREEMENT. If the 7. Unit Operator is not the sole owner of working interests, costs and expenses incurred by Unit Operator in conducting unit operations hereunder shall be paid and apportioned among and borne by the owners of working interests, all in accordance with the agreement or agreements entered into by and between the Unit Operator and the owners of working interests, whether one or more, separately or collectively. Any agreement or agreements entered into between the working interest owners and the Unit Operator as provided in this section, whether one or more, are herein referred to as the "unit operating agreement." Such unit operating agreement shall also provide the manner in which the working interest owners shall be entitled to receive their respective proportionate and allocated share of the benefits accruing hereto in conformity with their underlying operating agreements, leases, or other independent contracts, and such other rights and obligations as between Unit Operator and the working interest owners as may be agreed upon by Unit Operator and the working interest owners; however, no such unit operating agreement shall be deemed either to modify any of the terms and conditions of this unit agreement or to relieve the Unit Operator of any right or obligation established under this unit agreement, and in case of any inconsistency or conflict between this unit agreement and the unit operating agreement, this unit agreement shall govern. Three true copies of any unit operating agreement executed pursuant to this section should be filed with the Supervisor, prior to approval of this unit agreement.

3

5

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

8. RIGHTS AND OBLIGATIONS OF UNIT OPERATOR. Except as otherwise specifically provided herein, the exclusive right, privilege, and duty of exercising any and all rights of the parties hereto which are necessary or convenient for prospecting for, producing, storing, allocating, and distributing the unitized substances are hereby deligated to and shall

be exercised by the Unit Operator as herein provided. Acceptable evidence of title to said rights shall be deposited with said Unit Operator and, together with this agreement, shall constitute and define the rights, privileges, and obligations of Unit Operator. Nothing herein, however, shall be construed to transfer title to any land or to any lease or operating agreement, it being understood that under this agreement the Unit Operator, in its capacity as Unit Operator, shall exercise the rights of possession and use vested in the parties hereto only for the purposes herein specified.

1

2

3

5

ĥ

7

8

10

1)

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

9. DRILLING TO DISCOVERY. Within 6 months after the effective date hereof, the Unit Operator shall begin to drill an adequate test well at a location approved by the Supervisor, if on Federal land, unless on such effective date a well is being drilled conformably with the terms hereof, and thereafter continue such drilling diligently until all of the formations of Pennsylvanian Age have been tested or until at a lesser depth unitized substances shall be discovered which can be produced in paying quantities (to wit: quantities sufficient to repay the costs of drilling, completing, and producing operations, with a reasonable profit) or the Unit Operator shall at any time establish to the satisfaction of the Supervisor, if on Federal land, that further drilling of said well would be unwarranted or impracticable, provided, however, that Unit Operator shall not in any event be required to drill said we'll to a depth in excess of 10,400 feet. Until the discovery of a deposit of unitized substances capable of being produced in paying quantities, the Unit Operator shall continue drilling diligently one well at a time, allowing not more than 6 months between the completion of one well and the beginning of the next well, until a well capable of producing unitized substances in paying quantities is completed to the satisfaction of said Supervisor, if it be on Federal land, or until it is reasonably proved that the unitized land is incapable of producing unitized substances in paying quantities in the formations drilled hereunder. Nothing in this

section shall be deemed to limit the right of the Unit Operator to resign as provided in Section 5, hereof, or as requiring Unit Operator to commence or continue any drilling during the period pending such resignation becoming effective in order to comply with the requirements of this section. The Supervisor may modify the drilling requirements of this section by granting reasonable extensions of time when, in his opinion, such action is warranted.

Upon failure to commence any well provided for in this section within the time allowed, including any extension of time granted by the Supervisor, this agreement will automatically terminate; upon failure to continue drilling diligently any well commenced hereunder, the Supervisor may, after 15-days' notice to the Unit Operator, declare this unit agreement terminated.

10. PLAN OF FURTHER DEVELOPMENT AND OPERATION. Within 6 months after completion of a well capable of producing unitized substances in paying quantities, the Unit Operator shall submit for the approval of the Supervisor an acceptable plan of development and operation for the unitized land which, when approved by the Supervisor, shall constitute the further drilling and operating obligations of the Unit Operator under this agreement for the period specified therein. Thereafter, from time to time before the expiration of any existing plan, the Unit Operator shall submit for the approval of the Supervisor a plan for an additional specified period for the development and operation of the unitized land.

Any plan submitted pursuant to this section shall provide for the exploration of the unitized area and for the diligent drilling necessary for determination of the area or areas thereof capable of producing unitized substances in paying quantities in each and every productive formation and shall be as complete and adequate as the Supervisor may determine to be necessary for timely development and proper conservation of the oil and gas resources of the unitized area and shall:

- (a) specify the number and locations of any wells to be drilled and the proposed order and time for such drilling; and
- (b) to the extent practicable specify the operating practices regarded as necessary and advisable for proper conservation of natural resources.

Separate plans may be submitted for separate productive zones, subject to the approval of the Supervisor.

Plans shall be modified or supplemented when necessary to meet changed conditions or to protect the interests of all parties to this agreement. Reasonable diligence shall be exercised in complying with the obligations of the approved plan of development. The Supervisor is authorized to grant a reasonable extension of the 6-month period herein prescribed for submission of an initial plan of development where such action is justified because of unusual conditions or circumstances. After completion hereunder of a well capable of producing any unitized substance in paying quantities, no further wells, except such as may be necessary to afford protection against operations not under this agreement and such as may be specifically approved by the Supervisor, shall be drilled except in accordance with a plan of development approved as herein provided.

11. PARTICIPATION AFTER DISCOVERY. Upon completion of a well capable of producing unitized substances in paying quantities or as soon thereafter as required by the Supervisor, the Unit Operator shall submit for approval by the Supervisor a schedule, based on subdivisions of the public-land survey or aliquot parts thereof, of al' land then regarded as reasonably proved to be productive in paying quantities; all lands in said schedule on approval of the Supervisor to constitute a participating area, effective as of the date of completion of such well or the effective date of this unit agreement, whichever is later. The acreages of both Federal and non-Federal lands shall be based upon appropriate computations from the courses and distances shown on the last approved public-land

survey as of the effective date of each initial participating area. Said schedule shall also set forth the percentage of unitized substances to be allocated as herein provided to each tract in the participating area so established, and shall govern the allocation of production commencing with the effective date of the participating area. A separate participating area shall be established for each separate pool or deposit of unitized substances or for any group thereof which is produced as a single pool or zone, and any two/or more participating areas so established may be combined into one, on approval of the Supervisor. When production from two or more participating areas, so established, is subsequently found to be from a common pool or deposit said participating areas shall be combined into one effective as of such appropriate date as may be approved or prescribed by the Supervisor. The participating area or areas so established shall be revised from time to time, subject to like approval, to include additional land then regarded as reasonably proved to be productive in paying quantities or necessary for unit operations, or to exclude land then regarded as reasonably proved not to be productive in paying quantities and the schedule of allocation percentages shall be revised accordingly. The effective date of any revision shall be the first of the month in which is obtained the knowledge or information on which such revision is predicated, provided, however, that a more appropriate effective date may be used if justified by the Unit Operator and approved by the Supervisor. No land shall be excluded from a participating area on account of depletion of the unitized substances, except that any participating area established under the provisions of this unit agreement shall terminate automatically whenever all completions in the formation on which the participating area is based are abandoned.

2

3

6

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

It is the intent of this section that a participating a ea shall represent the area known or reasonably estimated to be productive in paying quantities; but, regardless of any revision of the participating area, nothing herein contained shall be construed as requiring any retroactive

adjustment for production obtained prior to the effective date of the revision of the participating area.

. 5

In the absence of agreement at any time between the Unit Operator and the Supervisor as to the proper definition or redefinition of a participating area, or until a participating area has, or areas have, been established as provided herein, the portion of all payments affected thereby shall be impounded in a manner mutually acceptable to the owners of working interests and the Supervisor. Royalties due the United States shall be determined by the Supervisor and the amount thereof shall be deposited, as directed by the Supervisor, to be held as unearned money until a participating area is finally approved and then applied as earned or returned in accordance with a determination of the sum due as Federal royalty on the basis of such approved participating area.

Whenever it is determined, subject to the approval of the Supervisor, that a well drilled under this agreement is not capable of production in paying quantities and inclusion of the land on which it is situated in a participating area is unwarranted, production from such well shall, for the purposes of settlement among all parties other than working interest owners, be allocated to the land on which the well is located unless such land is already within the participating area established for the pool or deposit from which such production is obtained. Settlement for working interest benefits from such a well shall be made as provided in the unit operating agreement.

12. ALLOCATION OF PRODUCTION. All unitized substances produced from each participating area established under this agreement, except any part thereof used in conformity with good operating practices within the unitized area for drilling, operating, camp and other production or development purposes, for repressuring or recycling in accordance with a plan of development approved by the Supervisor, or unavoidably lost, shall be deemed to be produced equally on an acreage basis from the several tracts of unitized land of the participating area established

for such production and, for the purpose of determining any benefits accruing under this agreement, each such tract of unitized land shall have allocated to it such percentage of said production as the number of acres of such tract included in said participating area bears to the total acres of unitized land in said participating area, except that allocation of production hereunder for purposes other than for settlement of the royalty, overriding royalty, or payment out of production obligations of the respective working interest owners, shall be on the basis prescribed in the unit operating agreement whether in conformity with the basis of allocation herein set forth or otherwise. It is hereby agreed that production of unitized substances from a participating area shall be allocated as provided herein regardless of whether any wells are drilled on any particular part or tract of said participating area. If any gas produced from one participating area is used for repressuring or recycling purposes in another participating area, the first gas withdrawn from such last-mentioned participating area for sale during the life of this agreement shall be considered to be the gas so transferred until an amount equal to that transferred shall be so produced for sale and such gas shall be allocated to the participating area from which initially produced as such area was last defined at the time of such final production.

2

3

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

. 30

31

Any party hereto owning or controlling the working interest in any unitized land having thereon a regular well location may with the approval of the Supervisor, at such party's sole risk, costs, and expense, drill a well to test any formation for which a participating area has not been established or to test any formation for which a participating area has been established if such location is not within said participating area, unless within 90 days of receipt of notice from said party of his intention to drill the well the Unit Operator elects and commences to drill such a well in like manner as other wells are drilled by the Unit Operator under this agreement.

If any well drilled as aforesaid by a working interest owner results in production such that the land upon which it is situated may properly be included in a participating area, such participating area shall be established or enlarged as provided in this agreement and the well shall thereafter be operated by the Unit Operator in accordance with the terms of this agreement and the unit operating agreement.

2

3

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

. 27

28

29

30

If any well drilled as aforesaid by a working interest owner obtains production in quantities insufficient to justify the inclusion of the land upon which such well is situated in a participating area, such well may be operated and produced by the party drilling the same subject to the conservation requirements of this agreement. The royalties in amount or value of production from any such well shall be paid as specified in the underlying lease and agreements affected.

14. ROYALTY SETTLEMENT. The United States and any State and any royalty owner who, is entitled to take in kind a share of the substances now unitized hereunder shall hereafter be entitled to the right to take in kind its share of the unitized substances, and Unit Operator, or the working interest owner in case of the operation of a well by a working interest owner as herein provided for in special cases, shall make deliveries of such royalty share taken in kind in conformity with the applicable contracts, laws, and regulations. Settlement for royalty interest not taken in kind shall be made by working interest owners responsible therefor under existing contracts, laws and regulations, or by the Unit Operator on or before the last day of each month for unitized substances produced during the preceding calendar month; provided, however, that nothing herein contained shall operate to relieve the lessees of any land from their respective lease obligations for the payment of any royalties due under their leases.

If gas obtained from lands not subject to this agreement is introduced into any participating area hereunder, for use in repressuring, stimulation of production, or increasing ultimate recovery, in

conformity with a plan of operations approved by the Supervisor, a like amount of gas, after settlement as herein provided for any gas transferred from any other participating area and with appropriate deduction for loss from any cause, may be withdrawn from the formation into which the gas is introduced, royalty free as to dry gas, but not as to any products which may be extracted therefrom; provided that such withdrawal shall be at such time as may be provided in the approved plan of operations or as may otherwise be consented to by the Supervisor as conforming to good petroleum engineering practice; and provided further, that such right of withdrawal shall terminate on the termination of this unit agreement.

6 .

8.

Royalty due the United States shall be computed as provided in the operating regulations and paid in value or delivered in kind as to all unitized substances on the basis of the amounts thereof allocated to unitized Federal land as provided herein at the rates specified in the respective Federal leases, or at such lower rate or rates as may be authorized by law or regulation; provided, that for leases on which the royalty rate depends on the daily average production per well, said average production shall be determined in accordance with the operating regulations as though each participating area were a single consolidated lease.

Royalty due as to non-Federal lands under the respective leases shall be computed and paid on the basis of all unitized substances allocated to such lands hereunder.

15. RENTAL SETTLEMENT. Rental or minimum royalties due on leases committed hereto shall be paid by working interest owners responsible therefor under existing contracts, laws, and regulations, provided that nothing herein contained shall operate to relieve the lessees of any land from their respective lease obligations for the payment of any rental or minimum royalty due under their leases. Rental or minimum royalty for lands of the United States subject to this agreement shall be paid at the rate specified in the respective leases from the United

States unless such rental or minimum royalty is waived, suspended, or reduced by law or by approval of the Secretary or his duly authorized representative.

With respect to any lease on non-Federal land containing provisions which would terminate such lease unless drilling operations are commenced upon the land covered thereby within the time therein specified or rentals are paid for the privilege of deferring such drilling operations, the rentals required thereby shall, notwithstanding any other provision of this agreement, be deemed to accrue and become payable during the term thereof as extended by this agreement and until the required drilling operations are commenced upon the land covered thereby or until some portion of such land is included within a participating area.

- 16. CONSERVATION. Operations hereunder and production of unitized substances shall be conducted to provide for the most economical and efficient recovery of said substances without waste, as defined by or pursuant to State or Federal law or regulation.
- 17. DRAINAGE. The Unit Operator shall take such measures as the Supervisor deems appropriate and adequate to prevent drainage of unitized substances from unitized land by wells on land not subject to this agreement.
- 18. LEASES AND CONTRACTS CONFORMED AND EXTENDED. The terms, conditions, and provisions of all leases, subleases, and other contracts relating to exploration, drilling, development, or operation for oil or gas on lands committed to this agreement are hereby expressly modified and amended to the extent necessary to make the same conform to the provisions hereof, but otherwise to remain in full force and effect; and the parties hereto hereby consent that the Secretary are to Federal leases

shall and by his approval hereof, or by the approval hereof by his duly authorized representative, does hereby establish, alter, change, or revoke the drilling, producing, rental, minimum royalty, and royalty requirements of Federal leases committed hereto and the regulations in respect thereto to conform said requirements to the provisions of this agreement, and, without limiting the generality of the foregoing, all leases, subleases, and contracts are particularly modified in accordance with the following:

- (a) The development and operation of lands subject to this agreement under the terms hereof shall be deemed full performance of all obligations for development and operation with respect to each and every separately owned tract subject to this agreement, regardless of whether there is any development of any particular tract of the unit area.
- (b) Drilling and producing operations performed hereunder upon any tract of unitized lands will be accepted and deemed to be performed upon and for the benefit of each and every tract of unitized land, and no lease shall be deemed to expire by reason of failure to drill or produce wells situated on the land therein embraced.
- (c) Suspension of drilling or producing operations on all unitized lands pursuant to direction or consent of the Secretary or his duly authorized representative shall be deemed to constitute such suspension pursuant to such direction or consent as to each and every tract of unitized land. A suspension of drilling or producing operations limited to specified lands shall be applicable only to such lands.
- (d) Each lease, sublease or contract relating to the exploration, drilling, development or operation for oil or gas of lands other than those of the United States committed to this agreement, which, by its terms might expire prior to the

termination of this agreement, is hereby extended beyond any such terms so provided therein so that it shall be continued in full force and effect for and during the term of this agreement.

3

6

7

8

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

- (c) Any Federal lause for a fixed term of twenty (20) years or any renewal thereof or any part of such lease which is made subject to this agreement shall continue in force beyond the term provided therein until the termination hereof. Any other Federal lease committed hereto shall continue in force beyond the term so provided therein or by law as to the land committed so long as such lease remains subject hereto, provided that production is had in paying quantities under this unit agreement prior to the expiration date of the term of such lease, or in the event actual drilling operations are commenced on unitized land, in accordance with the provisions of this agreement, prior to the end of the primary term of such lease and are being diligently prosecuted at that time, such lease shall be extended for two years and so long thereafter as oil or gas is produced in paying quantities in accordance with the provisions of the Mineral Leasing Act Revision of 1960.
- (f) Each sublease or contract relating to the operation and development of unitized substances from lands of the United States committed to this agreement, which by its terms would expire prior to the time at which the underlying lease, as extended by the immediately preceding paragraph, will expire, is hereby extended beyond any such term so provided therein so that it shall be continued in full force and effect for and during the term of the underlying lease as such term is herein extended.

(g) The segregation of any Federal lease committed to this 2 agreement is governed by the following provision in the 3 fourth paragraph of Sec. 17(j) of the Mineral Leasing Act, as amended by the Act of Septembor 2, 1960 (74 Stat. 781-784): "Any [Federal] lease heretofore or hereafter committed to any such [unit] plan embracing lands that are in part within and in part outside of the area covered by any 8 such plan shall be segregated into separate leases as to the lands committed and the lands not committed as of the 10 effective date of unitization: Provided, however, That 11 any such lease as to the nonunitized portion shall continue 12 in force and effect for the term thereof but for not 13 less than two years from the date of such segregation and 14 so long thereafter as oil or gas is produced in paying 15 quantities." 16 17

18

19

20

21

22

23

24

25

26

27

- (h) Any lease, other than a Federal lease, having only a portion of its lands committed hereto shall be segregated as to the portion committed and the portion not committed, and the provisions of such lease shall apply separately to such segregated portions commencing as of the effective date hereof. In the event any such lease provides for a lump-sum rental payment, such payment shall be prorated between the portions so segregated in proportion to the acreage of the respective tracts.
- 19. COVENANTS RUN WITH LAND. The covenants herein shall be construed to be covenants running with the land with respect to the interest of the parties hereto and their successors in interest until this agreement terminates, and any grant, transfer, or conveyance, of interest in

land or leases subject hereto shall be and hereby is conditioned upon the assumption of all privileges and obligations hereunder by the grantee, transferree, or other successor in interest. No assignment or transfer of any working interest, royalty, or other interest subject hereto shall be binding upon Unit Operator until the first day of the calendar month after Unit Operator is furnished with the original, photostatic, or certified copy of the instrument of transfer.

2]

- 20. EFFECTIVE DATE AND TERM. This agreement shall become effective upon approval by the Secretary or his duly authorized representative and shall terminate five (5) years from said effective date unless:
  - (a) such date of expiration is extended by the Director, or
  - (b) it is reasonably determined prior to the expiration of the fixed term or any extension thereof that the unitized land is incapable of production of unitized substances in paying quantities in the formations tested hereunder and after notice of intention to terminate the agreement on such ground is given by the Unit Operator to all parties in interest at their last known addresses, the agreement is terminated with the approval of the Supervisor, or
  - (c) a valuable discovery of unitized substances has been made or accepted on unitized land during said initial term or any extension thereof, in which event the agreement shall remain in effect for such term and so long as unitized substances can be produced in quantities sufficient to pay for the cost of producing same from wells on unitized land within any participating area established hereunder and, should production cease, so long thereafter as liligent operations are in progress for the restoration of production or discovery of new production and so long thereafter as unitized substances so discovered can be produced as aforesaid, or
  - (d) it is terminated as heretofore provided in this agreement.

This agreement may be terminated at any time by not less than 75 percentum, on an acreage basis, of the working interest owners signatory hereto, with the approval of the Supervisor; notice of any such approval to be given by the Unit Operator to all parties hereto.

2

3

4 .

5.

7

8

. 9

10

"

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

21. RATE OF PROSPECTING, DEVELOPMENT, AND PRODUCTION. The Director is hereby vested with authority to alter or modify from time to time in his discretion the quantity and rate of production under this agreement when such quantity and rate is not fixed pursuant to Federal or State law or does not conform to any state-wide voluntary conservation or allocation program, which is established, recognized, and generally adhered to by the majority of operators in such State, such authority being hereby limited to alteration or modification in the public interest, the purpose thereof and the public interest to be served thereby to be stated in the order of alteration or modification. Without regard to the foregoing, the Director is also hereby vested with authority to alter or modify from time to time in his discretion the rate of prospecting and development and the quantity and rate of production under this agreement when such alteration or modification is in the interest of attaining the conservation objectives stated in this agreement and is not in violation of any applicable Federal or State law.

Powers in this section vested in the Director shall only be exercised after notice to Unit Operator and opportunity for hearing to be held not less than 15 days from notice.

22. APPEARANCES. Unit Operator shall, after notice to other parties affected, have the right to appear for and on behalf of any and all interests affected hereby before the Department of the Interior and to appeal from orders issued under the regulations of said Department or to apply for relief from any of said regulations or in any proceedings relative to operations before the Department of the Interior or any other legally constituted authority; provided, however, that any other interested party

shall also have the right at his own expense to be heard in any such proceeding.

9.

- 23. NOTICES. All notices, demands or statements required hereunder to be given or rendered to the parties hereto shall be deemed fully given if given in writing and personally delivered to the party or sent by postpaid registered or certified mail, addressed to such party or parties at their respective addresses set forth in connection with the signatures hereto or to the ratification or consent hereof or to such other address as any such party may have furnished in writing to party sending the notice, demand or statement.
- 24. NO WAIVER OF CERTAIN RIGHTS. Nothing in this agreement contained shall be construed as a waiver by any party hereto of the right to assert any legal or constitutional right or defense as to the validity or invalidity of any law of the State wherein said unitized lands are located, or of the United States, or regulations issued thereunder in any way affecting such party, or as a waiver by any such party of any right beyond his or its authority to waive.
- 25. UNAVOIDABLE DELAY. All obligations under this agreement requiring the Unit Operator to commence or continue drilling or to operate on or produce unitized substances from any of the lands covered by this agreement shall be suspended while the Unit Operator, despite the exercise of due care and diligence, is prevented from complying with such obligations, in whole or in part, by strikes, acts of God, Federal, State, or municipal law or agencies, unavoidable accidents, uncontrollable delays in transportation, inability to obtain necessary materials in open market, or other matters beyond the reasonable control of the Unit Operator whether similar to matters herein enumerated or not. No unit obligation which is suspended under this section shall become due less than thirty (30) days after it

has been determined that the suspension is no longer applicable. Determination of creditable "Unavoidable Delay" time shall be made by the unit operator subject to approval of the Supervisor.

)

- 26. NONDISCRIMINATION. In connection with the performance of work under this agreement, the operator agrees to comply with all the provisions of section 202 (1) to (7) inclusive of Executive Order 11246 (30 F.R. 12319), which are hereby incorporated by reference in this agreement.
- land shall fail and the true owner cannot be induced to join in this unit agreement, such tract shall be automatically regarded as not committed hereto and there shall be such readjustment of future costs and benefits as may be required on account of the loss of such title. In the event of a dispute as to title as to any royalty, working interest, or other interests subject thereto, payment or delivery on account thereof may be withheld without liability for interest until the dispute is finally settled; provided, that, as to Federal land or leases, no payments of funds due the United States should be withheld, but such funds shall be deposited as directed by the Supervisor to be held as unearned money pending final settlement of the title dispute, and then applied as earned or returned in accordance with such final settlement.

Unit Operator as such is relieved from any responsibility for any defect or failure of any title hereunder.

28. NON-JOINDER AND SUBSEQUENT JOINDER. If the owner of any substantial interest in a tract within the unit area fails or refuses to subscribe or consent to this agreement, the owner of the working interest in that tract may withdraw said tract from this agreement by written notice delivered to the Supervisor and the Unit Operator prior to the approval of this agreement by the Supervisor. Any vil or gas interests in lands within the unit area not committed hereto prior to submission

of this agreement for final approval may therafter be committed heroto by the owner or owners thereof subscribing or consenting to this agreement, and, if the interest is a working interest, by the owner of such interest also subscribing to the unit operating agreement. After operations are commended hereunder, the right of subsequent joinder, as provided in this section, by a working interest owner is subject to such requirements or approvals, if any, pertaining to such joinder, as may be provided for in the unit operating agreement. After final approval hereof, joinder by a non-working interest owner must be consented to in writing by the working interest owner committed hereto and responsible for the payment of any benefits that may accrue hereunder in behalf of such non-working interest. A non-working interest may not be committed to this unit agreement unless the corresponding working interest is committed hereto. Joinder to the unit agreement by a working-interest owner, at any time, must be accompanied by appropriate joinder to the unit operating agreement, if more than one committed working-interest owner is involved, in order for the interest to be regarded as committed to this unit agreement. Except as may otherwise herein be provided, subsequent joinders to this agreement shall be effective as of the first day of the month following the filing with the Supervisor of duly executed counterparts of all or any papers necessary to establish effective commitment of any tract to this agreement unless objection to such joinder is duly made within 60 days by the Supervisor.

3

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25.

26

27

28.

29

30

31

32

29. COUNTERPARTS. This agreement may be executed in any number of counterparts no one of which needs to be executed by all parties or may be ratified or consented to by separate instrument in writing specifically referring hereto and shall be binding upon all those parties who have executed such a counterpart, ratification, or consent hereto with the same force and effect as if all such parties had signed the same document and regardless of whether or not it is executed by all other parties owning or claiming an interest in the lands within the above-described unit area.

30. SURRENDER. Nothing in this agreement shall prohibit the exercise by any working interest owner of the right to surrender vested in such party by any lease, sublease, or operating agreement as to all or any part of the lands covered thereby, provided that each party who will or might acquire such working interest by such surrender or by forfeiture as hereafter set forth, is bound by the terms of this agreement.

If as a result of any such surrender the working interest rights as to such lands become vested in any party other than the fee owner of the unitized substances, said party may forfeit such rights and further benefits from operation hereunder as to said land to the party next in the chain of title who shall be and become the owner of such working interest.

If as the result of any such surrender or forfeiture working interest rights become vested in the fee owner of the unitized substances, such owner may:

- (1) Accept those working interest rights subject to this agreement and the unit operating agreement; or
- (2) Lease the portion of such land as is included in a participating area established hereunder subject to this agreement and the unit operating agreement.
- (3) Provide for the independent operation of any part of such land that are not then included within a participating area established hereunder.

If the fee owner of the unitized substances does not accept the working interest rights subject to this agreement and the unit operating agreement or lease such lands as above provided within six (6) months after the surrendered or forfeited working interest rights become vested in the fee owner, the benefits and obligations of operations accruing to such lands under this agreement and the unit operating agreement shall be shared by the remaining owners of unitized working interests in accordance with their respective working interest ownerships,

20 .

and such owners of working interests shall compensate the fee owner of unitized substances in such lands by paying sums equal to the rentals, minimum royalties, and royalties applicable to such lands under the lease in effect when the lands were unitized.

6.

An appropriate accounting and settlement shall be made for all benefits accruing to or payments and expenditures made or incurred on behalf of such surrendered or forfeited working interest subsequent to the date of surrender or forfeiture, and payment of any monies found to be owing by such an accounting shall be made as between the parties within thirty (30) days. In the event no unit operating agreement is in existence and a mutually acceptable agreement between the proper parties thereto cannot be consummated, the Supervisor may prescribe such reasonable and equitable agreement as he deems warranted under the circumstances.

The exercise of any right vested in a working interest owner to reassign such working interest to the party from whom obtained shall be subject to the same conditions as set forth in this section in regard to the exercise of a right to surrender.

31. TAXES. The working interest owners shall render and pay for their account and the account of the royalty owners all valid taxes on or measured by the unitized substances in and under or that may be produced, gathered and sold from the land subject to this contract after the effective date of this agreement, or upon the proceeds or net proceeds derived therefrom. The working interest owners on each tract shall and may charge the proper proportion of said taxes to the regalty owners having interests in said tract, and may currently retain and deduct sufficient of the unitized substances or derivative products, or net proceeds thereof from the allocated share of each royalty owner to secure reimbursement for the taxes so paid. No such taxes shall be charged to the United States or the State of New Mexico or to any lessor who has a contract with his lessee which requires the lessee to pay such taxes.

Ì	32. NO PARTNERSHIP. It is expressly agreed that the re-
2	lation of the parties hereto is that of independent contractors
3	and nothing in this agreement contained, expressed or implied,
4	nor any operations conducted hereunder, shall create or be deemed
<b>5</b> .	to have created a partnership or association between the parties
6	hereto or any of them.
7	33. SURFACE MANAGEMENT STIPULATION. Nothing in this agree-
8	ment shall modify any special Federal-lease stipulations relating
9	to surface management, attached to and made a part of Oil and Gas
10	Leases covering lands within the Unit Area.
11	34. RECLAMATION LANDS. Nothing in this agreement shall
12	modify the special, Federal-lease stipulations applicable to
13	lands under the jurisdiction of the Bureau of Reclamation.
14	IN WITNESS WHEREOF, the parties hereto have caused
15	this agreement to be executed as of the date first above written.
16	
17	
18 19	UNIT OPERATOR AND WORKING INTEREST OWNER
20	Amoco Production Company
21	B <i>y</i>
	Attorney-in-Fact
22 23	Address: P. O. Box 3092 Houston, Texas 77001
24	WORKING INTEREST OWNERS
25 26 27	Gulf Oil Corporation P. O. Drawer 1150 Midland, Texas 79701
28 29 30 31	Phillips Petroleum Company Exploration Office Phillips Building Odessa, Texas 79760
32 33 34	Cities Service Oil Company 800 Vaughn Building Midland, Texas 7970l
35 36 37	Tesoro Petroleum Corporation 8520 Crownhill San Antonio, Texas 78209
88 89 10	Yates Petroleum Corporation Yates Building Artesia, New Mexico 88201

STATE OF TEXAS	ķ		
COUNTY OF HARRIS	1		
The foregoing day of	instrument was	acknowledged before me	this
as Attorney-in-Fact on b	ehalf of AMOCO	PRODUCTION COMPANY.	
My Commission Expires:	• · · · · · · · · · · · · · · · · · · ·	•	
	Nota Hari	ary Public in and for ris County, Texas	

# EXHIBIT "B" BUBBLING SPRING EDDY COUNTY, NEW MEXICO

TRACT	DESCRIPTION OF LAND	NUMBER OF ACRES	SERIAL NO. AND EXPIRATION DATE OF LEASE	BASIC ROYALTY AND OWNERSHIP PERCENTAGE	LESSEE OF RECORD	OVERRIDING ROYALTY AND OWNERSHIP PERCENTAGE	
1	T. 20 S R. 26 E. Sec. 23: S/2	320.00	LC-070032-B 1-1-74	A11-U.S.A.	Gulf Oil Corporation	Pauline A. Galt \$750/Acre PP out of 5%	Sur Gull Pan
							Yate <u>From</u> Gulf Pan
							Belo Gulf
2	T. 20 S R. 26 E. Sec. 22: N/2 NE/4, SW/4 NE/4	120.00	LC-071847 1-1-74	A11-U.S.A.	Gulf Oil Corporation	Co., E.E. Nearburg,	Surf Citi Gulf Pan
					Pan American Petroleum Corp. 50.00000% Phillips Petroleum Co.	Ingram, E.H. Ward- Tr. \$750/Acre PP	Phil Yate
					14.203718	Tracy Clark & Robert Boling 1/4 of 1%	From Citi Gulf Pan
	•						Phi1
	2						Below Citto

Surface to 8900' Gulf Oil Corporatio Pan American Petrol

WORKING INT

OWNERSHIP PER

Yates Petroleum Cor

From 8900' to Base Gulf Oil Corporatio Pan American Petrol

Below Base Penn Form Gulf Oil Corporation

Surface to 8900' Cities Service Oil ( Gulf Oil Corporation Pan American Petrole

Phillips Petroleum Yates Petroleum Corp

From 8900' to Base P Cities Service 011 C Gulf 011 Corporation Pan American Petrole

Phillips Petroleum C

Below Base Penn Form Citles Service OII C Gulf Oil Corporation Pan American Petrole

Phillips Petroleum C

# EXHIBIT "B" BUBBLING SPRING EDDY COUNTY, NEW MEXICO

	JMBER OF ACRES	SERIAL NO. AND EXPIRATION DATE OF LEASE	BASIC ROYALTY AND OWNERSHIP PERCENTAGE	LESSEE OF RECORD	OVERRIDING ROYALTY AND OWNERSHIP PERCENTAGE	WORKING INTEREST AND OWNERSHIP PERCENTAGE
•	320.00	LC-070032-B 1-1-74	A11-U.S.A.	Gulf Oil Corporation	Pauline A. Galt \$750/Acre PP out of 5%	Surface to 8900' Gulf Oil Corporation 74,03350% Pan American Petroleum Corporation 25.00000% Yates Petroleum Corporation
						From 8900' to Base Penn Gulf Oil Corporation 50.00000% Pan American Petroleum Corporation 50.00000% Below Base Penn Formation
						Gulf Oil Corporation 100.00000%
<u>·</u> i	120.00	LC-071847 1-1-74	A11-U.S.A.	Gulf Oil Corporation 28.57143% Pan American Petroleum	Co.,E.E.Nearburg, Anna A.(Nearburg) Reischman, Tom	Surface to 8900' Cities Service Oil Co. 3.57143% Gulf Oil Corporation 56.03829% Pan American Petroleum Corporation 25.00000% Phillips Petroleum 14.28571%
,				Phillips Petroleum Co.	out of 5% Foster Morrell 2%	Yates Petroleum Corp. 1.10457%
					Tracy Clark & Robert Boling 1/4 of 1%	From 8900' to Base Penn. Cities Service Oil Co. 7.14286% Gulf Oil Corporation 28.57143% Pan American Petroleum Corporation
						50.00000% Phillips Petroleum Co. 14.28571%
		A.				Below Base Penn Formation Cities Service UIT Co. 3.57143% Gulf Oil Corporation 14.28571% Pan American Petroleum Corporation
	•					75.00000% Phillips Petroleum Co. 7.14286%

EXH1B1	T "8" - BUBBLING SPRIN	NG, EDDY COUN	NTY, NEW MEXICO				
TRACT NO.	DESCRIPTION OF A	NUMBER OF ACRES	SERIAL NO. AND EXPIRATION DATE OF LEASE	BASIC ROYALTY AND OWNERSHIP PERCENTAGE	LESSEE OF RECORD	OVERRIDING ROYALTY AND OWNERSHIP PERCENTAGE	WORKING II AND OWNERSHIP PE
3	T. 20 S R. 26 E. Sec. 22: SE/4 NE/4	40.00	LC-071847-A 1-1-74	All-U.S.A.	Cities Service Oil Co. 50.00000% Phillips Petroleum Co. 50.00000%	Anna A.(Nearburg)	Surface to 8900' Cities Service Of Gulf Oil Corporat Pan American Petr Phillips Petroleum Of From 8900' to Bas Cities Service Of Gulf Oil Corporat Pan American Petr Phillips Petroleum Below Base Penn F Cities Service Of Gulf Oil Corporat Pan American Petr
							Phillips Petroleu
4	T. 20 S R. 26 E. Sec. 21: E/2 SE/4 Sec. 28: S/2 NE/4, S SE/4, NE/4	240.00 E/4 NE/4	NM-03215 H.B.P.	All-U.S.A.	Cities Service Oil Co. 3.57143% Gulf Oil Corporation 56.03829%	Childress Royalty Co.,E.E.Nearburg, Anna A.(Nearburg) Reischman, Tom	Surface to 8900' Cities Service Oi Gulf Oil Corporat Pan American Petr
					Pan American Petroleum Corp. 25.00000% Phillips Petroleum Co. 14.28571% Yates Petroleum Corp. 1.10457%	Ingram, E.H. Ward- Tr. \$750/Acre PP out of 5% Foster Morrell 2% Tracy Clark & Robert Boling 1/4 of 1%	Phillips Petroleum Carron 8900' to Base Cities Service Oi Gulf Oil Corporate

Gulf Oil Corporati Pan American Petro

Phillips Petroleum Below Base Penn Fo Cities Service Oil

PRING, EDDY COUNTY, NEW MEXICO

PRING,	EDDY COUN	NTY, NEW MEXICO				
	ER OF RES	SERIAL NO. AND EXPIRATION DATE OF LEASE	BASIC ROYALTY AND OWNERSHIP PERCENTAGE	LESSEE OF RECORD	OVERRIDING ROYALTY AND OWNERSHIP PERCENTAGE	WORKING INTEREST AND OWNERSHIP PERCENTAGE
E. E/4	40.00	LC-071847-A 1-1-74	All-U.S.A.	Cities Service Oil Co. 50.00000% Phillips Petroleum Co. 50.00000%	Anna A. (Nearburg)	Surface to 8900' Cities Service Oil Co. 3.57143% Gulf Oil Corporation 56.03829% Pan American Petroleum Corporation 25.00000% Phillips Petroleum Co. 14.28571% Yates Petroleum Corp. 1.10457%  From 8900' to Base Penn Cities Service Oil Co. 7.14286% Gulf Oil Corporation 28.57143% Pan American Petroleum Corporation 50.00000% Phillips Petroleum Co. 14.28571%
,						Below Base Penn Formation Cities Service 011 Co. 3.57143% Gulf Oil Corporation 14.28571% Pan American Petroleum Corporation 75.00000% Phillips Petroleum Co. 7.14286%
E. 4 5, SE/4 E/4 NE/4	240.00	NM-03215 H.B.P.	A11-U.S.A.	Cities Service Oil Co. 3.57143% Gulf Oil Corporation 56.03829%	Childress Royalty Co.,E.E.Nearburg, Anna A.(Nearburg) Reischman, Tom	Surface to 8900' Cities Service Oil Co. 3.57143% Gulf Oil Corporation 56.03829% Pan American Petroleum Corporation 25.00000%
				Pan American Petroleum Corp. 25.00000% Phillips Petroleum Co. 14.28571% Yates Petroleum Corp. 1.10457%	Ingram,E.H. Ward- Tr. \$750/Acre PP out of 5% Foster Morrell 2% Tracy Clark & Robert Boling 1/4 of 1%	Phillips Petroleum Co. 14.28571% Yates Petroleum Corp. 1.10457%  From 8900' to Base Penn Cities Service Oil Co. 7.14286% Gulf Oil Corporation 28.57143% Pan American Petroleum Corporation 50.00000% Phillips Petroleum Co. 14.28571% Below Base Penn Formation Cities Service Oil Co. 3.57143%

TRACT NO.	DESCRIPTION OF LAND	NUMBER OF ACRES	SERIAL NO. AND EXPIRATION DATE OF LEASE	BASIC ROYALTY AND OWNERSHIP PERCENTAGE	LESSEE OF RECORD	OVERRIDING ROYALTY AND OWNERSHIP PERCENTAGE	WORKING INTER AND OWNERSHIP PERCE
4 Contd.				ed alleria estera a la dirette de aprop distanticalmen			Gulf Oil Corporation Pan American Petrole
						a de la companya de	Phillips Petroleum C
5	T. 20 S R. 26 Sec. 21: NW/4 SE, Sec. 27: E/2 NW/4 Sec. 28: N/2 SE/4	74 240.00 4	NM-03215-A H.B.P.	All-U.S.Á.	Cities Service Oil Co. 50.00000% Phillips Petroleum Co. 50.00000%	Childress Royalty Co.,E.E.Nearburg, Anna A. (Nearburg) Reischman, Tom Ingram,E.H. Ward- Tr. \$750/Acre PP	Surface to 8900' Cities Service 017 C Gulf Oil Corporation Pan American Petrole Phillips Petroleum C

Below Base Penn Forma Cities Service Oil Co Gulf Oil Corporation Pan American Petroleu Phillips Petroleum Co

T. 20 S. - R. 26 E. Sec. 22: SW/4 SEc. 27: NW/4 NW/4 NM-03217 Cities Service Oil Co. Childress Royalty A11-U.S.A. 200.00 1-1-74 7.14286% Gulf Oil Corporation 28.57143% Pan American Petroleum Corp. 50.00000% Phillips Petroleum Co. out of 5% 14.28571%

Co., E. E. Nearburg, Anna A. (Nearburg) Reischman, Tom Ingram, E.H. Ward-Tr. \$750/Acre PP Foster Morrell 2% Tracy Clark & Robert Boling 1/4 of 1%

out of 5%

1/4 of 1%

Foster Morrell 2%

Tracy Clark & Robert Boling

Surface to 8900' Cities Service 011 Co Gulf Oil Corporation

Yates Petroleum Corp.

From 8900' to Base Pe Cities Service 011 Co Gulf Oil Corporation

Pan American Petroles

Phillips Petroleum Co

Pan American Petroleu Phillips Petroleum Co Yates Petroleum Corp.

From 8900' to Base Pe Cities Service 011 Co Gulf Oil Corporation Pan American Petroleu

Phillips Petroleum Co

PRING, EDDY COUNTY, NEW MEXICO

, 2551 0	CONTY, NEW MEXICO				
NUMBER OF ACRES	SERIAL NO. AND EXPIRATION DATE OF LEASE	BASIC ROYALTY AND OWNERSHIP PERCENTAGE	LESSEE OF RECORD	OVERRIDING ROYALTY AND OWNERSHIP PERCENTAGE	WORKING INTEREST AND OWNERSHIP PERCENTAGE
					Gulf Oil Corporation 14.28571% Pan American Petroleum Corporation 75.00000% Phillips Petroleum Co. 7.14286%
240.00 SW/4	NM-03215-A H.B.P.	A11-U.S.A.	Cities Service Oil Co. 50.00000% Phillips Petroleum Co. 50.00000%	Childress Royalty Co.,E.E.Nearburg, Anna A.(Nearburg) Reischman, Tom Ingram,E.H. Ward- Tr. \$750/Acre PP out of 5% Foster Morrell 2% Tracy Clark & Robert Boling 1/4 of 1%	Surface to 8900' Cities Service Oil Co. 3.57143% Gulf Oil Corporation 56.03829% Pan American Petroleum Corporation 25.00000% Phillips Petroleum Co. 14.28571% Yates Petroleum Corp. 1.10457%  From 8900' to Base Penn Cities Service Oil Co. 7.14286% Gulf Oil Corporation 28.57143% Pan American Petroleum Corporation 50.00000% Phillips Petroleum Co. 14.28571%  Below Base Penn Formation
					Cities Service Oil Co. 3.57143% Gulf Oil Corporation 14.28571% Pan American Petroleum Corporation 75.0000% Phillips Petroleum Co. 7.14286%
200.00	NM-03217 1-1-74	All-U.S.A.	Cities Service Oil Co. 7.14286% Gulf Oil Corporation 28.57143% Pan American Petroleum Corp. 50.00000% Phillips Petroleum Co. 14.28571%	Childress Royalty Co.,E.E.Nearburg, Anna A.(Nearburg) Reischman, Tom Ingram,E.H. Ward- Tr. \$750/Acre PP out of 5% Foster Morrell 2% Tracy Clark & Robert Boling 1/4 of 1%	Surface to 8900' Cities Service Oil Co. 3.57143% Gulf Oil Corporation 56.03829% Pan American Petroleum Corporation 25.00000% Phillips Petroleum Co. 14.28571% Yates Petroleum Corp. 1.10457%  From 8900' to Base Penn Cities Service Oil Co. 7.14286% Gulf Oil Corporation 28.57143% Pan American Petroleum Corporation 50.00000% Phillips Petroleum Co. 14.28571%

EXHIBIT "B"	-	BUBBLING	SPRING,	EDDY	COUNTY,	NEW	MEXICO	

TRACT	DESCRIPTION OF LAND	NUMBER OF ACRES	SERIAL NO. AND EXPIRATION DATE OF LEASE	BASIC ROYALTY AND OWNERSHIP PERCENTAGE	LESSEE OF RECORD	OVERRIDING ROYALTY AND OWNERSHIP PERCENTAGE	
6 Contd.		1					8e Ci Gu Pa
	•						Pł
7	T. 20 S R. 26 E. Sec. 22: NW/4,SE/4	320.00	NM-03217-A 1-1-74	All-U.S.A.	Cities Service 0il Co. 50.00000% Phillips Petroleum Co. 50.00000%	Childress Royalty Co.,E.E.Nearburg, Anna A.(Nearburg) Reischman, Tom Ingram,E.H.Ward- Tr. \$750/Acre PP out of 5% Foster Morrell 2% Tracy Clark & Robert Boling 1/4 of 1%	Su Ci Gu Pa Ph Ya Fr Ci Gu Pa
: •							Ph
							Be Ci Gu Pai
•							Ph
8	T. 20 S R. 26 E. Sec. 21: W/2 NE/4	80.00	NH-03365 1-1-74	Λ11-U.S.Λ.	Cities Service Oil Co. 7.14286% Gulf Oil Corporation 28.57143% Pan American Petroleum Corp. 50.0000% Phillips Petroleum Co.	Childress Royalty Co.,E.E.Nearburg, Anna A.(Nearburg) Reischman, Tom Ingram,E.H.Ward- Tr. \$750/Acre PP out of 5%	Sur Cit Gul Par Phi Yat

WORKING INTER AND OWNERSHIP PERCEN

Below Base Penn Form Cities Service 011 C Gulf Oil Corporation Pan American Petrole

Phillips Petroleum C

Surface to 8900' Cities Service Oil C Gulf Oil Corporation Pan American Petrole

Phillips Petroleum G ates Petroleum Corp

rom 8900' to Base P Cities Service Oil C ulf Oil Corporation an American Petrole

Phillips Petroleum C

elow Base Penn Form ities Service Oil C Gulf Oil Corporation an American Petrole

hillips Petroleum C

urface to 8900' Cities Service Dil C Gulf Oil Corporation Pan American Petrole

hillips Petroleum Co Yates Petroleum Co.

Foster Morrell 2% Tracy Clark &

Robert Boling 1/4 of 1%

14.28571%

From 8900' to Base Pe Cities Service Oil Co Gulf Oil Corporation

กอง	COUNTY,	NEU	MEXICO
יוטט	COUNTIE	MEB	REVIO

DUT COUNT	, REW MEXICO				
UMBER OF ACRES	SERIAL NO. AND EXPIRATION DATE OF LEASE	BASIC ROYALTY AND OWNERSHIP PERCENTAGE	LESSEE OF RECORD	OVERRIDING ROYALTY AND OWNERSHIP PERCENTAGE	WORKING INTEREST AND OWNERSHIP PERCENTAGE
					Below Base Penn Formation Cities Service Oil Co. 3.57143% Gulf Oil Corporation 14.28571% Pan American Petroleum Corporation 75.00000% Phillips Petroleum Co. 7.14286%
320.00	NM-03217-A 1-1-74	All-U.S.A.	Cities Service Oil Co. 50.00000% Phillips Petroleum Co. 50.00000%	Childress Royalty Co.,E.E.Nearburg, Anna A.(Nearburg) Reischman, Tom Ingram,E.H.Ward- Tr. \$750/Acre PP out of 5% Föster Morrell 2% Tracy Clark & Robert Boling 1/4 of 1%	Surface to 8900' Cities Service Oil Co. 3.57143% Gulf Oil Corporation 56.03829% Pan American Petroleum Corporation 25.00000% Phillips Petroleum Co. 14.28571% Yates Petroleum Corp. 1.10457%  From 8900' to Base Penn Cities Service Oil Co. 7.14286% Gulf Oil Corporation 28.57143% Pan American Petroleum Corporation 50.00000% Phillips Petroleum Co. 14.28571%
					Below Base Penn Formation Cities Service Oil Co. 3.57143% Gulf Oil Corporation 14.28571% Pan American Petroleum Corporation 75.00000% Phillips Petroleum Co. 7.14286%
80.00	N1-03365 1-1-74	A11-U.S.Λ.	Cities Service Oil Co. 7.14286% Gulf Oil Corporation 28.57143% Pan American Petroleum Corp. 50.00000% Phillips Petroleum Co. 14.28571%	Childress Royalty Co.,E.E.Nearburg, Anna A.(Nearburg) Reischman, Tom Ingram,E.H.Ward- Tr. \$750/Acre PP out of 5% Foster Morrell 2% Tracy Clark & Robert Boling 1/4 of 1%	Surface to 8900' Cities Service Oil Co. 3.57143% Gulf Oil Corporation 56.03829% Pan American Petroleum Corporation 25.00000% Phillips Petroleum Co. 14.28571% Yates Petroleum Co. 1.10457%  From 8900' to Base Penn Cities Service Oil Co. 7.14286% Gulf Oil Corporation 28.57143%

	r "B" - BUBCLING SPRING,					AUCDO FORMA DAVALTU
TRACT NO.	DESCRIPTION OF LAND	NUMBER OF ACRES	SERIAL NO. AND EXPIRATION DATE OF LEASE	BASIC ROYALTY AND OWNERSHIP PERCENTAGE	LESSEE OF RECORD	OVERRIDING ROYALTY AND OWNERSHIP PERCENTAGE
8 Contd.						
	e e e e e e e e e e e e e e e e e e e					
					•••	
		·				
9	T. 20 S R. 26 E. Sec. 21: E/2 NE/4	80.00	NM-03365-A 1-1-74	A11-U.S.A.	Cities Service Oil Co. 50,00000% Phillips Petroleum Co. 50,00000%	Childress Royalty Co.,E.E.Nearburg, Anna A.(Nearburg) Reischman, Tom Ingram,E.H. Ward-
٠						Tr. \$750/Acre PP out of 5% Foster Morrell 2% Tracy Clark & Robert Boling
						1/4 of 1%
10	T. 20 S R. 26 E. Sec. 27: All of NE/4 St East of Pecos River	d/4 5.20	NM-038124 1-1-74	Λ11-U.S.A.	Cities Service Oil Co.	Peter O.Nyce,Jr.& Christine P.Nyce 1%

WORKING INTER AND OWNERSHIP PERCE

Pan American Petrol

Phillips Petroleum

Below Base Penn For Cities Service Oil Gulf Oil Corporatio Pan American Petrol

Phillips Petroleum

Surface to 8900' Cities Service Oil Gulf Oil Corporation

Pan American Petrol
Phillips Petroleum Yates Petroleum Cor

From 8900' to Base Cities Service Oil Gulf Oil Corporatio Pan American Petrol

Phillips Petroleum

Below Base Penn For Cities Service Oil Gulf Oil Corporatio Pan American Petro

Phillips Petroleum

Surface to 8900' Cities Service Oil Gulf Oil Corporati Pan American Petro

Yates Petroleum Co

RING, EDDY COUNTY, NEW MEXICO

	NUMBER OF ACRES	SERIAL NO. AND EXPIRATION DATE OF LEASE	BASIC ROYALTY AND OWNERSHIP PERCENTAGE	LESSEE OF RECORD	OVERRIDING ROYALTY AND OWNERSHIP PERCENTAGE	WORKING INTEREST AND OWNERSHIP PERCENTAGE
		8				Pan American Petroleum Corporation 50.00000% Phillips Petroleum Co. 14.28571%  Below Base Penn Formation Cities Service Oil Co. 3.57143% Gulf Oil Corporation 14.28571% Pan American Petroleum Corporation 75.00000% Phillips Petroleum Co. 7.14286%
	80.00	NM-03365-A 1-1-74	A11-U.S.A.	Cities Service Oil Co. 50,00000% Phillips Petroleum Co. 50,00000%	Childress Royalty Co.,E.E.Nearburg, Anna A.(Nearburg) Reischman, Tom Ingram,E.H. Ward- Tr. \$750/Acre PP out of 5% Foster Morrell 2% Tracy Clark & Robert Boling 1/4 of 1%	Surface to 8900' Cities Service Oil Co. 3.57143% Gulf Oil Corporation 56.03829% Pan American Petroleum Corporation 25.00000% Phillips Petroleum Co. 14.28571% Yates Petroleum Corp. 1.10457%  From 8900' to Base Penn Cities Service Oil Co. 7.14286% Gulf Oil Corporation 28.57143% Pan American Petroleum Corporation 50.00000%
	/4 5.20	NM-038124 1-1-74	A11-U.S.A.	Cities Service Oil Co.	Peter O.Nyce, Jr. & Christine P.Nyce	Phillips Petroleum Cn. 14.28571%  Below Base Penn Formation Cities Service Oil Co. 3.57143% Gulf Oil Corporation 14.28571% Pan American Petroleum Corporation 75.00000% Phillips Petroleum Co. 7.14286%  Surface to 8900' Cities Service Oil Co. 25.00000%
!COS					1%	Gulf Oil Corporation 48.06700% Pan American Petroleum Corporation 25.00000% Yates Petroleum Corp. 1.93300%

...

EXHIBIT "	'B'' -	BUBBLING	SPRING,	EDDY	COUNTY,	NEW MEXICO
-----------	--------	----------	---------	------	---------	------------

TRACT NO.	DESCRIPTION OF LAND	NUMBER OF ACRES	SERIAL NO. AND EXPIRATION DATE OF LEASE	BASIC ROYALTY AND OWNERSHIP PERCENTAGE	LESSEE OF RECORD	OVERRIDING ROYALTY AND OWNERSHIP PERCENTAGE	WORKING INTERES AND OWNERSHIP PERCENT
10 Contd.							Below 8900' Cities Service Oil Co Pan American Petroleu
11	T. 20 S R. 26 E. Sec. 27: N/2 SE/4 East of Pecos River		NM-038124-Λ 1-1-74	A11-U.S.A.	Pan American Petroleum Corporation	Peter Q.Nyce,Jr.& Christine P.Nyce 1%	Surface to 8900' Gulf Oil Corporation Pan American Petroleu
							Yates Petroleum Corp. Below 8900' Pan American Petroleu
12	T. 20 S R. 26 E. Sec. 27: E/2 NE/4	80.00	NM-0283953A 1-1-74	A11-U.S.A.	Gulf Oil Corporation	David M. Evans 5%	Surface to 8900' Gulf Oil Corporation Pan American Petroleu
							Yates Petroleum Corp.
							From 8900' to Base Pe Gulf Oil Corporation Pan American Petroleu
							Below Base Penn Forma Gulf Oil Corporation
13	T. 20 S R. 26 E. Sec. 26: E/2, NW/4, E/2 SW/4 Sec. 35: E/2, E/2 W/2	963.67	NM-0338758 Н.В.Р.	A11-U.S.A.	Gulf Oil Corporation	Pauline A. Galt \$500/Acre PP out of 1/2 of 1%-George	Surface to 8900' Gulf Oil Corporation Pan American Petroleur
	Save and except an unsurveyed 76.33 acre					D.Riggs \$500/Acre PP out of 2.25%-Neil H. Wills \$500/Acre	Yates Petroleum Corp.
	tract lying along the West side of SE/4 SW/4 of Sec.26 and E/2 W/2 Sec. 35.					PP out of 2.25%	From 8900' to Base Per Gulf Oil Corporation Pan American Petroleum

٠.,

FODY	COUNTY.	NEU	MEXI	CO
	0001111	116.11	115/12	v

CODI COURT	I HEW PILATOU				
NUMBER OF ACRES	SERIAL NO. AND EXPIRATION DATE OF LEASE	BASIC ROYALTY AND OWNERSHIP PERCENTAGE	LESSEE OF RECORD	OVERRIDING ROYALTY AND OWNERSHIP PERCENTAGE	WORKING INTEREST AND OWNERSHIP PERCENTAGE
		*4:			Below 8900' Cities Service Oil Co. 50.00000% Pan American Petroleum Corporation 50.00000%
21.00 r	NM-038124-A 1-1-74	All-U.S.A.	Pan American Petroleum Corporation	Peter Q.Nyce,Jr.& Christine P.Nyce 1%	Surface to 8900' Gulf Oil Corporation 48.06700% Pan American Petroleum Corporation 50.00000% Yates Petroleum Corp. 1.93300% Below 8900' Pan American Petroleum Corporation 100.00000%
	NM-0283953A 1-1-74	A11-U.S.A.	Gulf Oil Corporation	David M. Evans 5%	Surface to 8900' Gulf Oil Corporation 74.03350% Pan American Petroleum Corporation 25.00000% Yates Petroleum Corp. 0.96650%
					From 8900' to Base Penn Sulf Oil Corporation 50.00000% Pan American Petroleum Corporation 50.00000%
91 - 12 - 12 - 12 - 12 - 12 - 12 - 12 -	N <sub>A</sub> see			· · · · · · · · · · · · · · · · · · ·	Below Base Penn Formation Gulf Oil Corporation 100.00000%
	NM-0 <b>3</b> 38 <b>7</b> 58 H.B.P.	A11-U.S.A.	Gulf Oil Corporation	Pauline A. Galt \$500/Acre PP out of 1/2 of 1%-George D.Riggs \$500/Acre PP out of 2.25%-Neil H. Wills \$500/Acre	Surface to 8900' Gulf Oil Corporation 74.03350% Pan American Petroleum Corporation 25.00000% Yates Petroleum Corp. 0.96650%
				PP out of 2.25%	From 8900' to Base Penn Gulf Oil Corporation 50.00000% Pan American Petroleum Corporation 50.00000%

...

EXH181	T "B" - BUBBLING SPRING,	, EDDY COUN	TY, NEW MEXICO				
TRACT	DESCRIPTION OF LAND	NUMBER OF ACRES	SERIAL NO. AND EXPIRATION DATE OF LEASE	BASIC ROYALTY AND OWNERSHIP PERCENTAGE	LESSEE OF RECORD	OVERRIDING ROYALTY AND OWNERSHIP PERCENTAGE	WORKING INTERES AND OWNERSHIP PERCENT
13 Contd.							Below Base Penn Forma Gulf Oil Corporation
14	T. 20 S R. 26 E. Sec. 27: W/2 NE/4	80.00	NM-0426336 1-1-74	A11-U.S.A.	Pan American Petroleum Corporation	F. J. Bradshaw 3%	Surface to 8900' Gulf Oil Corporation Pan American Petroleu
,							Yates Petroleum Corp.
							Below 8900' Pan American Petroleum
15	T. 20 S R. 26 E. Sec. 27: SW/4 NW/4, NW/4 SW/4 lying East	14.00	BLM-A-026872 1-1-74	A11-U.S.A.	Cities Service Oil Co.	Peter O.Nyce, Jr. & Christine P. Nyce 1%	Surface to 8900 Cities Service Oil Co Gulf Oil Corporation Pan American Petroleur
	of Pecos River Sec. 28: NW/4 NE/4 lying East						Yates Petroleum Corp. From 8900' to Base Pe
	of Pecos Rive						Cities Service Oil Co Gulf Oil Corporation Pan American Petroleum
			,				Below Base Penn Forma Cities Service Oil Co Pan American Petroleu
16	T. 20 S R. 26 E. Sec. 21: All SW/4 SE/4 lying East of	28.00	BLM-A-026872-A 1-1-74	A11-U.S.A.	Pan American Petroleum Corporation	Peter O.Nyce, Jr. & Christine P. Nyce 1%	Surface to 8900' Gulf Oil Corporation Pan American Petroleu
	Pecos River						Yates Petroleum Corp.
		•				•	From 8900' to Base Pe Gulf Oil Corporation

***	5004	COLLETT		MENTAL
LIND.	EDUY	COUNTY.	NEW	TIEX LUU

NN-0426336   Pan American Petroleum   F. J. Bradshaw   Surface to 8900'   48.06700   4	NUMBER OF ACRES	SERIAL NO. AND EXPIRATION DATE OF LEASE	BASIC ROYALTY AND OWNERSHIP PERCENTAGE	LESSEE OF RECORD	OVERRIDING ROYALTY AND OWNERSHIP PERCENTAGE	WORKING INTEREST AND OWNERSHIP PERCENTAGE
80.00 1-1-74						
Name	80.00		A11-U.S.A.		F. J. Bradshaw 3%	Gulf Oil Corporation 48.06700% Pan American Petroleum Corporation
BLM-A-026872   Cities Service Oil Co.   Peter 0.Nyce, Jr. & Surface to 8900'   Cities Service Oil Co.   Peter 0.Nyce, Jr. & Surface to 8900'   Cities Service Oil Co.   12.50000   Cities Service Oil Co.   Corporation   Cities Service Oil Co.   Cities Service Oil C						
14.00   1-1-74						Below 8900' Pan American Petroleum Corporation 100.00000%
Yates Petroleum Corp. 1.44976  From 8900' to Base Penn Cities Service 0il Co. 25.00000 Gulf 0il Corporation 25.00000 Pan American Petroleum Corporati 50.00000 Below Base Penn Formation Cities Service 0il Co. 50.00000 Pan American Petroleum Corporati 50.00000 Pan American Petroleum Corporatio Cities Service 0il Co. 50.000000 Pan American Petroleum Corporatio Cities Service 0il Co. 50.000000 Pan American Petroleum Corporatio Corporation Christine P. Nyce   1% Gulf 0il Corporation 61.050259 Pan American Petroleum Corporatio 37.500000 Yates Petroleum Corp. 1.449752 From 8900' to Base Penn			A11-U.S.A.	Cities Service Oil Co.		Cities Service Oil Co. 12.50000% Gulf Oil Corporation 61.05024% Pan American Petroleum Corporation
Cities Service 0il Co. 25.00000 Gulf 0il Corporation 25.000000 Pan American Petroleum Corporation 50.000000 Pan American Petroleum Corporation Cities Service 0il Co. 50.000000 Pan American Petroleum Corporation Christine P. Nyce 1% Gulf 0il Corporation 61.05025% Pan American Petroleum Corporation Corporat	/er					
Cities Service Oil Co. 50.0000000000000000000000000000000000	ver					Cities Service Oil Co. 25.00000%
Christine P. Nyce 1% Gulf Oil Corporation 61.050259 Pan American Petroleum Corporatio 37.50000% Yates Petroleum Corp. 1.44975%						Below Base Penn Formation Cities Service Oil Co. 50.00000% Pan American Petroleum Corporation 50.00000%
Yates Petroleum Corp. 1.44975% From 8900' to Base Penn			A11-U.S.A.			Gulf Oil Corporation 61.05025% Pan American Petroleum Corporation
From 8900' to Base Penn Gulf Oil Corporation 25.00000%		a de la companya de			,	
						From 8900' to Base Penn Gulf Oil Corporation 25.00000%
		• • • • • • • • • • • • • • • • • • • •				

...

	"B" → BUBBLING SPRING	, EDDT COUNT	SERIAL NO. AND	DACTO DOVALTY	LESSEE	OVERRIDING ROYALTY	WORKING INTERE
RACT NO.	DESCRIPTION OF LAND	NUMBER OF ACRES	EXPIRATION DATE OF LEASE	BASIC ROYALTY AND OWNERSHIP PERCENTAGE	OF RECORD	AND OWNERSHIP PERCENTAGE	AND OWNERSHIP PERCEN
16 ontd.							Pan American Petrole
	N.						Below Base Penn Pan American Petrole
17	T. 20 S R. 26 E. Sec. 26: NW/4 SW/4 lying East of Pecos River	37.25	BLM-A-032236-B H.B.P.	A11-U.S.A.	Gulf Oil Corporation	Elk Oil Co. 2%	Gulf Oil Corporation
	17 Tracts	Federal L	ands	2,869.12 Acres		93.21% of Unit Area	
8	T. 20 S R. 26 E.  Sec. 27: Farmchild Far Trs. 785,786,787,788, 789,790,being all of N S/2 & SE/4 SE/4 SAVE & EXCEPT that acreage lying & being on the left or east bank of the Pecos River & SAVE & EXCEPT Fairchild Farm Tr.784 conveyed to W.M.Truitt by Tax Deed recorded in Vol.D6,Pg. Deed Record,Eddy Co.,N & being approx.the Nor	/2 d o 31,	Fee Lease	12.5% T. D. Hardesty	Gulf Oil Corporation	None	Gulf Oil Corporation

18.75%-W.M.

Truitt

Gulf Oil Corporation

None

T. 20 S. - R. 26 E. Sec. 27: Fairchild Farm 16.00 Tr.784, being approx.

the North 16 acres of NW/4 SW/4

Fee Lease

: 19

Gulf Oil Corporation

ING.	<b>EDDY</b>	COUNTY.	NEW MEXICO	
,		UNUIT 1 4	1161 1616160	

X. ٥f

ING,	EDDY COUN	TY, NEW MEXICO			×	
	NUMBER OF ACRES	SERIAL NO. AND EXPIRATION DATE OF LEASE	BASIC ROYALTY AND OWNERSHIP PERCENTAGE	LESSEE OF RECORD	OVERRIDING ROYALTY AND OWNERSHIP PERCENTAGE	WORKING INTEREST AND OWNERSHIP PERCENTAGE
						Pan American Petroleum Corporation 75.00000%
	•					Below Base Penn Pan American Petroleum Corporation 100.00000%
-	37.25	BLM-A-032236-B H.B.P.	A11-U.S.A.	Gulf Oil Corporation	Elk 011 Co. 2%	Gulf Oil Corporation 100.00000%
	Federal L	ands.	2,869.12 Acres	Palantin Palandralitas saladanian kalabaka muuga kuuli uu saan uu suoma	93.21% of Unit Area	
	115.5	Fee Lease	12.5% T. D. Hardesty	Gulf Oil Corporation	None	Gulf Oil Corporation 100.00000%
8, f N/ E &	2					
ic if						
hild d to leed						
Pg.3'  N.1  Nort   /4	М.,					
Farm	16.00	Fee Lease	18.75%-W.M. Truitt	Gulf Oil Corporation	None	Gulf Oil Corporation 100.00000%

TRACT	DESCRIPTION OF LAND	NUMBER OF ACRES	SERIAL NO. AND EXPIRATION DATE OF LEASE	BASIC ROYALTY AND OWNERSHIP PERCENTAGE	LESSEE OF RECORD	OVERRIDING ROYALTY AND OWNERSHIP PERCENTAGE	WORKING INTERES AND OWNERSHIP PERCENT
20	T. 20 S R. 26 E. Sec. 26: NW/4 SW/4 SAVE & EXCEPT all that part of each of the above described tracts lying & being on the left or east bank of th Pecos River	2.75 e	Fee Lease H.B.P.	C.L. Thacker	Pan American Petroleum Corporation	None	Surface to 8900' Gulf Oil Corporation Pan American Petroleu Yates Petroleum Corp. Below 8900' Pan American Petroleu
21	T. 20 S R. 26 E. Sec. 21: SW/4 SE/4 being a part of the Fairchild Farm Tr.781 Sec. 27: SW/4 NW/4 Sec. 28: NW/4 NE/4 being Fairchild Farm Trs. 782 783 & a part of 781, SAVE & EXCEPT all that part of each of the above described tracts lying & being on the left or east bank of the Pecos River		Fee Lease	All-C.C. Foster	Tesoro Petroleum Corp	William R. Lawson 3%	Tesoro Petroleum Corp
	w <sup>*</sup>						
	4 Tracts	Fee Lands		209 Acres		6.79% of Unit Area	
	· <u> </u>	RECAPITULATION					
			FEDERAL LANDS	2,869.12	Mariante Mariante ambier principio de ambier albertalista.	000% UNIT AREA	
			FEE LANDS	209.00	ACRES 6.79	1000% UNIT AREA	

3,078.12

ACRES

TOTAL LANDS

11 1 1 1

100.00000%

UNIT AREA

EDDY COUNTY, NEW MEXICO SERIAL NO. AND BASIC ROYALTY LESSEE OVERRIDING ROYALTY WORKING INTEREST EXPIRATION NUMBER OF AND OWNERSHIP OF AND OWNERSHIP AND DATE OF LEASE PERCENTAGE RECORD PERCENTAGE OWNERSHIP PERCENTAGE **ACRES** C.L. Thacker Pan American Petroleum Surface to 8900' Gulf Oil Corporation Fee Lease None 2.75 H.B.P. Corporation 48.06700% Pan American Petroleum Corporation 50.00000% Yates Petroleum Corp. 1.93300% Below 8900' Pan American Petroleum Corporation 100.00000% A11-C.C. Tesoro Petroleum Corp William R. Lawson 3% Tesoro Petroleum Corp. 100.00000% Fee Lease 74.75 Foster eing 782, ed on Fee Lands 209 Acres 6.79% of Unit Area RECAPITULATION FEDERAL LANDS 2,869,12 **ACRES** 93.21000% UNIT AREA FEE LANDS 209,00 ACRES €.79000% UNIT AREA

100.00000%

UNIT AREA

TOTAL LANDS

3,078.12

**ACRES** 

٠.

DRAFT dr/

## BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING CALLED BY THE CIL CONSERVATION COMMISSION OF NEW MEXICO FOR THE PURPOSE OF CONSIDERING:

CASE No. 5070

Order No. R-4/643

AMOCO PRODUCTION COMPANY APPLICATION OF FOR APPROVAL OF THE BUBBLING SPRING UNIT AGREEMENT, EDDY , COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

# BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on October 3 , 1963 , at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

day of October , 1963 , the Commission, NOW, on this\_\_ a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

#### FINDS:

- (1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.
- Amoco Production Company (2) That the applicant, \_ seeks approval of the Bubbling Spring Unit Agreement :Startaxx covering 3078./2 acres, more or less, of Federal lands and Fee described as follows:

COUNTY, NEW MEXICO TOWNSHIP 20 S , RANGE 26 E , NMPM

E/2 Section 21: 1711 Surtion 22: 5/2 Section 23:

Section 26: N/2, SE/4, E/2 SW/4 and NW/4 SW/4

Section 27: N/2 and N/2 5/2

Section 28: E/2

Section 35: E/2 and E/2W/2

(3) That approval of the proposed unit agreement should promote the prevention of waste and the protection of correlative rights within the unit area.

### IT IS THEREFORE ORDERED:

- (1) That the <u>Bubbling Spring</u> Unit Agreement is hereby approved.
- (2) That the plan contained in said unit agreement for the development and operation of the unit area is hereby approved in principle as a proper conservation measure; provided, however, that notwithstanding any of the provisions contained in said unit agreement, this approval shall not be considered as waiving or relinquishing, in any manner, any right, duty, or obligation which is now, or may hereafter be, vested in the Commission to supervise and control operations for the exploration and development of any lands committed to the unit and production of oil or gas therefrom.
- (3) That the unit operator shall file with the Commission an executed original or executed counterpart of the unit agreement within 30 days after the effective date thereof; that in the event of subsequent joinder by any party or expansion or contraction of the unit area, the unit operator shall file with the Commission within 30 days thereafter counterparts of the unit agreement reflecting the subscription of those interests having joined or ratified.
- of said unit agreement by the Commission of the United States Geological Survey; that this order shall terminate ipso facto upon the termination of said unit agreement; and that the last unit operator shall notify the Commission immediately in writing of such termination.
- (5) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year herein-above designated.