

AMOCO PRODUCTION COMPANY
DENVER REGION

DESORBED GAS ANALYSES
CAHN GAS COM. NO. 1

<u>Sample</u>	<u>Interval</u>	<u>Helium</u>	<u>Nitrogen</u>	<u>Carbon Dioxide</u>	<u>Methane</u>	<u>Ethane +</u>	<u>BTU</u>
"A"	2798-2801	0.00	0.00	10.35	89.10	0.55	910
"B"	2809-2810	0.00	0.00	9.43	90.04	0.55	919

Note: Numbers are volume %

AMOCO PRODUCTION COMPANY
DENVER REGION

GAS ANALYSES - MAIN BASAL COAL

STATE GAS COM "BW" NO. 1
790' FNL X 1,480' FEL
SECTION 32-T32N-R10W
SAN JUAN COUNTY, NEW MEXICO

Date Tested	Helium	Nitrogen	Carbon Dioxide	Methane	Ethane	Propane	Isobutane	Normal Butane	Pentane	Hexane +	BTU	Gr
12/81	0.18	0.01	5.82	93.68	0.21	0.02	0.00	0.00	0.00	0.00	955	0.6128
12/81	0.20	0.00	5.82	93.75	0.20	0.03	0.00	0.00	0.00	0.00	951	0.6104
8/82	0.00	0.02	5.84	93.95	0.18	0.01	0.00	0.00	0.00	0.00	952	0.6113
8/82	0.00	0.00	5.87	93.91	0.22	0.00	0.00	0.00	0.00	0.00	952	0.6116
9/82	0.00	0.50	3.78	92.68	1.85	0.69	0.12	0.15	0.10	0.13	1,010	0.6190
11/82	0.00	0.00	6.09	93.71	0.15	0.05	0.00	0.00	0.00	0.00	950	0.6138
11/82	0.00	0.00	6.11	93.68	0.18	0.03	0.00	0.00	0.00	0.00	950	0.6140
11/82	0.06	0.36	5.96	93.55	0.00	0.07	0.00	0.00	0.00	0.00	947	0.6133

Note: Numbers are volume %

TAB748

AMOCO PRODUCTION COMPANY
DENVER REGION

GAS ANALYSES

SAN JUAN COUNTY, NEW MEXICO

<u>Fruitland Wells</u>		<u>Date Tested</u>	<u>Helium</u>	<u>Nitrogen</u>	<u>Carbon Dioxide</u>	<u>Methane</u>	<u>Ethane</u>	<u>Propane</u>	<u>Isobutane</u>	<u>Normal Butane</u>	<u>Pentane</u>	<u>Hexane +</u>	<u>BTU</u>	<u>GR</u>
Keys Gas Com E1		3/77	0.00	0.09	1.09	95.06	1.54	0.82	0.23	0.46	0.48	0.23	1,066	0.6070
SE NW NW 27-32N-10W		12/81	0.13	0.03	0.77	93.63	1.51	0.97	0.25	0.63	0.86	1.22	1,125	0.6413
		12/81	0.00	0.00	0.80	93.36	1.57	0.90	0.08	0.68	0.99	1.62	1,143	0.6531
		6/82	0.00	0.03	1.15	94.66	1.81	0.93	0.24	0.46	0.55	0.17	1,070	0.6090
Holmberg Gas Com A1		12/81	0.00	0.00	0.18	92.85	2.11	1.49	0.16	0.76	0.69	1.76	1,162	0.6555
SE NW NE 28-32N-10W		12/81	0.17	0.03	0.14	93.23	2.09	1.65	0.44	0.73	0.60	0.92	1,131	0.6352
		9/82	0.00	0.03	0.19	94.48	2.11	1.62	0.45	0.54	0.39	0.19	1,096	0.6100

Note: Numbers are volume %

TAB749

AMOCO PRODUCTION COMPANY
DENVER REGION

GAS ANALYSES

SAN JUAN COUNTY, NEW MEXICO

Pictured Cliff Wells	Date Tested	Helium	Nitrogen	Carbon Dioxide	Methane	Ethane	Propane	Isobutane	Normal Butane	Pentane	Hexane +	BTU	GR
Martinez Gas Com A1	9/77	0.00	0.15	1.37	89.07	5.83	2.12	0.34	0.54	0.32	0.26	1,115	0.6440
NW SE SW 32-32N-10W	12/81	0.09	0.17	1.52	86.10	6.57	2.53	0.32	0.63	0.35	1.72	1,184	0.6930
	11/82	0.00	0.33	1.70	87.99	5.74	2.20	0.32	0.57	0.30	0.85	1,130	0.6625
Gardner Gas Com No: 1	12/81	0.30	0.21	1.74	89.44	4.75	1.60	0.11	0.48	0.27	1.10	1,114	0.6524
SW NE SE 33-32N-10W	9/82	0.00	0.22	1.78	90.02	4.86	1.89	0.30	0.44	0.24	0.25	1,095	0.6370
*Valentine Gas Com B1	9/79	0.17	0.12	5.91	93.70	0.00	0.07	0.00	0.00	0.00	0.03	950	0.6122
SW NE NE 32-32N-10W	12/81	0.00	0.25	5.77	93.26	0.42	0.09	0.03	0.04	0.04	0.10	964	0.6190
	9/82	0.00	0.20	5.56	93.21	0.54	0.28	0.05	0.07	0.04	0.05	971	0.6190
Leeper Gas Com C1	10/80	0.00	0.15	1.49	90.16	5.09	1.93	0.33	0.42	0.25	0.18	1,098	0.6340
NE SE SW 34-32N-10W													

Note: Numbers are volume %
SIS:jal

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TAB749

*Believed to be in communication with Fruitland Coal.

Exhibit 19

NEW MEXICO O.C.D.: 4-24-85:

Amoco's EXHIBITS TO
 QUALIFY CERTAIN GAS
 AS "COAL SEAM" GAS

WOOD GAS Com "A" #1 (CASE No. 8471)		LEEPER GAS Com "D" #1R (CASE No. 8566)	
EXH. #	EXHIBIT NAME	EXH. #	EXHIBIT NAME
1A	8-30-84 Cover Letter	1B	3-18-85 Cover Letter
2A	FORM C-132	2B	FORM C-132
3A	FEAC FORM 121	3B	FERC FORM 121
4A	FORM C-101	4B	FORM C-101
5A	FORM C-102	5B	FORM C-102
6A	FORM C-105	6B	FORM C-105
7A	NGPA Location Plat	7B	NGPA Location Plat
8A	NMOCD ORDER R-7588	8B	NMOCD ORDER R-7588
9A	LOG: Compensated Neutron	9B	LOG: Compensated Density
10A	AREA PLAT		
11A	Certificate of mailing	11B	Certificate of mailing
12A	Sworn Statement	12B	SWORN STATEMENT
13A	Field Map	13B	Field Map
14A	Stratigraphic Cross Section	14B	Stratigraphic Cross Section
15A	Produced Gas Analysis	15B	Produced Gas Analysis
16A	Cahn Desorbed Gas Analysis	16B	Cahn Desorbed Gas Analysis
17A	State "BW" Gas Analysis	17B	State "BW" Gas Analysis
18A	Fruitland Gas Analysis	18B	Fruitland Gas Analysis
19A	Pictured Cliffs Gas Analysis	19B	Pictured Cliffs Gas Analysis
20A	Revised NGPA Location Plat		