



State of New Mexico
Commissioner of Public Lands

RAY POWELL, M.S., D.V.M.
COMMISSIONER

310 OLD SANTA FE TRAIL P.O. BOX 1148
SANTA FE, NEW MEXICO 87504-1148

(505) 827-5760
FAX (505) 827-5766

December 9, 1994

Phillips Petroleum Company
5525 Highway 64, NBU 3004
Farmington, New Mexico 87401

Attn: Mr. A. J. Kieke

Re: San Juan 29-6 Unit
Commerciality Determinations
Fruitland Formation
Rio Arriba County, New Mexico

Dear Mr. Kieke:

This office is in receipt of your letter of August 19, 1994, together with data that supports your commercial determinations regarding the San Juan 29-6 Unit Well Nos. 247, 262, 226, 227, 259, 263, 260, 211, 248, 244, 251, 243, 230, 234, 249, 235, 229 and 233..

The Bureau of Land Management, by their letters of October 14, and December 2, 1994, has advised this office that they have concurred with your determination that the San Juan 29-6 Unit Well Nos. 262, 226, 259, 260, 211, 249, 235 and 229 are capable of producing unitized substances in paying quantities from the Fruitland formation. In addition, the Unit Well Nos. 247, 227, 263, 248, 244, 251, 243, 230, 234 and 233 have been determined to be non-paying wells in the Fruitland formation.

Please be advised that the Commissioner of Public Lands concurs with Phillips Petroleum Company and the Bureau of Land Management's determinations that the San Juan 29-6 Unit Well Nos. 262, 226, 259, 260, 211, 249, 235, and 229 are commercial in the Fruitland formation and entitled to participate in the Fruitland Participating Area. The Well Nos. 247, 227, 263, 248, 244, 251, 243, 230, 234 and 233 are considered to be non-paying wells and will be produced on a lease basis.

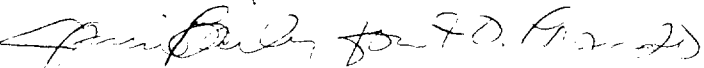
Please submit an application for the appropriate expansion of the Fruitland Participating Area to this office for approval.

Phillips Petroleum Company
Commercial Determinations
San Juan 29-6 Unit
December 9, 1994
Page 2

If you have any questions, or if we may be of further help, please contact Pete Martinez at (505) 827-5791.

Very truly yours,

RAY POWELL, M.S., D.V.M.
COMMISSIONER OF PUBLIC LANDS

BY: 
FLOYD O. PRANDO, Director
Oil/Gas and Minerals Division
(505) 827-5744
RP/FOP/pm

cc: Reader File
OCD-Attn: Mr. Roy Johnson
TRD-Attn: Mr. Mike Holden
BLM Farmington - Attn: Mr. Duane Spencer



PHILLIPS PETROLEUM COMPANY

FARMINGTON, NEW MEXICO 87401
5525 HWY. 64 NBU 3004

November 14, 1994

United States Department of Interior
Bureau of Land Management
Farmington Resource Area
1235 La Plata Highway
Farmington, New Mexico 87401

State of New Mexico
Commissioner of Public Lands
Attn: Mr. Floyd O. Prando
P. O. Box 1148
Santa Fe, New Mexico 87504-1148

State of New Mexico
Oil Conservation Division
Attn: Mr. William J. Lemay
State Land Office Building
P. O. Box 2088
Santa Fe, New Mexico 87504

Re: **SAN JUAN 29-6 UNIT**
#14-08-001-439
FRUITLAND PARTICIPATING AREA APPLICATION
ELEVENTH EXPANSION - EFFECTIVE 05/01/91
TWELFTH EXPANSION - EFFECTIVE 02/01/92
THIRTEENTH EXPANSION - EFFECTIVE 04/01/92
FOURTEENTH EXPANSION - EFFECTIVE 12/01/92
NON-COMMERCIAL WELL
NOTICE OF COMPLETION OF
SAN JUAN 29-6 UNIT WELLS
247, 227, 263, 248, 244, 251, 243, 230, 234 & 233
RIO ARriba COUNTY, NEW MEXICO
GF-5396

Gentlemen:

Pursuant to Section 11(a) of the San Juan 29-6 Unit Agreement, #14-08-001-437, approved December 5, 1952, Phillips Petroleum as Unit Operator, determined on the dates listed below that the wells listed below are capable of producing unitized substances in paying quantities from the Fruitland Formation. Therefore,

San Juan 29-6 Unit
#14-08-001-439
Eleventh - Fourteenth Expansions
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application for the Eleventh Expansion, Twelfth Expansion, Thirteenth Expansion, and Fourteenth Expansion of the Fruitland Formation are submitted for your review as follows:

ELEVENTH EXPANDED PARTICIPATING AREA - EFFECTIVE MAY 1, 1991

<u>Drilling Block</u>	<u>New Acres</u>	<u>Well Number</u>
W/2 Section 16-T29N-R6W	320.00	258

The San Juan 29-6 #258 Well was completed April 12, 1991. The Fruitland Coal formation was tested on April 10, 1991, with cumulative gas production of 1,332,719 MCF through December 1993. The spacing unit for this well is the W/2 Section 16-T29N-R6W containing 320.00 acres.

TWELFTH EXPANDED PARTICIPATING AREA - EFFECTIVE FEBRUARY 1, 1992

<u>Drilling Block</u>	<u>New Acres</u>	<u>Well Number</u>
E/2 Section 21-T29N-R6W	320.00	262
E/2 Section 14-T29N-R6W	320.00	226

The San Juan 29-6 #262 Well was completed January 21, 1992. The Fruitland Coal formation was tested on January 14, 1992, with cumulative gas production of 480,107 MCF through December 1993. The spacing unit for this well is the E/2 Section 21-T29N-R6W, containing 320.00 acres.

The San Juan 29-6 #226 Well was completed January 21, 1992. The Fruitland Coal formation was tested on January 16, 1992, with cumulative gas production of 697,084 MCF through December 1993. The spacing unit for this well is the E/2 Section 14-T29N-R6W, containing 320.00 acres.

THIRTEENTH EXPANDED PARTICIPATING AREA - EFFECTIVE APRIL 1, 1992

<u>Drilling Block</u>	<u>New Acres</u>	<u>Well Number</u>
E/2 Section 9-T29N-R6W	320.00	259
E/2 Section 16-T29N-R6W	320.00	*260

* Intervening Drilling Block

The San Juan 29-6 #259 Well was completed on March 15, 1992. The Fruitland Coal formation was tested on March 12, 1992, with cumulative gas production of 209,161 MCF through December 1993. The spacing unit for this well is the E/2 Section 9-T29N-R6W, containing 320.00 acres.

INTERVENING DRILLING BLOCK
NOTICE OF COMPLETION OF ADDITIONAL WELLS

The San Juan 29-6 #260 Well was completed on October 16, 1992. The Fruitland Coal formation was tested on October 12, 1992, with cumulative gas production of 174,140 MCF through December 1993. The spacing unit for this well is the E/2 Section 16-T29N-R6W, containing 320.00 acres.

San Juan 29-6 Unit
#14-08-001-437
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FOURTEENTH EXPANDED PARTICIPATING AREA - EFFECTIVE DECEMBER 1, 1992

<u>Drilling Block</u>	<u>New Acres</u>	<u>Well Number</u>
E/2 Section 22-T29N-R6W	320.00	249
E/2 Section 34-T29N-R6W	320.00	235
W/2 Section 35-T29N-R6W	320.00	229

The San Juan 29-6 #249 Well was completed on November 19, 1992. The Fruitland Coal formation was tested on November 19, 1992, with cumulative gas production of 56,503 MCF through September 1994. The spacing unit for this well is the E/2 Section 22-T29N-R6W, containing 320.00 acres.

The San Juan 29-6 #235 Well was completed on November 20, 1992. The Fruitland Coal formation was tested on November 20, 1992, with cumulative gas production of 45,856 MCF through September 1994. The spacing unit for this well is the E/2 Section 34-T29N-R6W, containing 320.00 acres.

The San Juan 29-6 #229 Well was completed on November 27, 1992. The Fruitland Coal formation was tested on November 27, 1992, with cumulative gas production of 41,924 MCF through September 1994. The spacing unit for this well is the W/2 Section 35-T29N-R6W, containing 320.00 acres.

NOTICE OF COMPLETION OF NON-COMMERCIAL WELLS

Pursuant to provisions of Section 11(a) of the San Juan 29-6 Unit Agreement, Phillips Petroleum Company has determined that the following wells are not capable of producing unitized substances in paying quantities from the Fruitland formation.

<u>Drilling Block</u>	<u>Net Acres</u>	<u>Well Number</u>
W/2 Section 10-T29N-R6W	320.00	247
W/2 Section 14-T29N-R6W	320.00	227
W/2 Section 22-T29N-R6W	320.00	263
W/2 Section 15-T29N-R6W	320.00	248
W/2 Section 31-T29N-R6W	320.00	244
W/2 Section 23-T29N-R6W	320.00	251
E/2 Section 31-T29N-R6W	320.00	243
E/2 Section 35-T29N-R6W	320.00	230
W/2 Section 34-T29N-R6W	320.00	234
W/2 Section 26-T29N-R6W	320.00	233

San Juan 29-6 Unit
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Page 4

The San Juan 29-6 #247 Well was completed on December 21, 1992. The Fruitland Coal formation was tested on January 4, 1992 with cumulative gas production of 19,959 MCF through December 1993. The spacing unit for this well is the W/2 Section 10-T29N-R6W, containing 320 acres.

The San Juan 29-6 #227 well was completed on January 28, 1992. The Fruitland Coal formation was tested on January 26, 1992 with cumulative gas production of 11,506 MCF through December 1993. The spacing unit for this well is the W/2 Section 14-T29N-R6W, containing 320.00 acres.

The San Juan 29-6 #263 well was completed on September 25, 1992. The Fruitland Coal formation was tested on September 24, 1992 with cumulative gas production of 1043 MCF through December 1993. The spacing unit for this well is the W/2 Section 22-T29N-R6W, containing 320.00 acres.

The San Juan 29-6 #248 well was completed on October 22, 1992. The Fruitland Coal formation was tested on October 20, 1992 with cumulative gas production of 10 MCF through December 1993. The spacing unit for this well is the W/2 Section 15-T29N-R6W, containing 320.00 acres.

The San Juan 29-6 #244 well was completed on October 26, 1992. The Fruitland Coal formation was tested on October 25, 1992, with cumulative gas production of 9408 MCF through December 1993. The spacing unit for this well is the W/2 Section 31-T29N-R6W, containing 320.00 acres.

The San Juan 29-6 #251 well was completed on October 30, 1992. The Fruitland Coal formation was tested on October 29, 1992, with cumulative gas production of 2775 MCF through December 1993. The spacing unit for the well is the W/2 Section 14-T29N-R6W, containing 320.00 acres.

The San Juan 29-6 #243 well was completed on November 14, 1992. The Fruitland Coal formation was tested on November 4, 1992, with cumulative gas production of 14,492 MCF through December 1993. The spacing unit for this well is the E/2 Section 31-T29N-R6W, containing 320.00 acres.

The San Juan 29-6 #230 well was completed on November 12, 1992. The Fruitland Coal formation was tested on November 12, 1992, with cumulative gas production of 18,000 MCF through December 1993. The spacing unit for this well is the E/2 Section 35-T29N-R6W, containing 320.00 acres.

The San Juan 29-6 #234 well was completed on November 13, 1992. The Fruitland Coal formation was tested on November 13, 1992, with cumulative gas production of 15,798 MCF through December 1993. The spacing unit for this well is the W/2 Section 34-T29N-R6W, containing 320.00 acres.

The San Juan 29-6 #235 well was completed on December 21, 1991. The Fruitland Coal formation was tested on December 19, 1991, with cumulative gas production of 3071 MCF through December 1993. The spacing unit for this well is the W/2 Section 35-T29N-R6W, containing 320.00 acres.

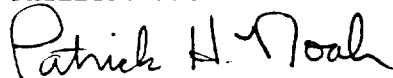
Enclosed herewith are Schedules XII, XIII, XIV and XV for the Eleventh through Fourteenth Expanded Participating Areas for the Fruitland Coal formation of the San Juan 29-6 Unit Area. These schedules describe the Participating Areas and indicate the percentages of unitized substances allocated to the unit tracts according to the Fruitland ownership of such tracts.

San Juan 29-6 Unit
#14-08-001-437
Eleventh - Fourteenth Expansions
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Page 5

Unless this application is disapproved in whole or in part the Eleventh Expanded, Twelfth Expanded, Thirteenth Expanded and Fourteenth Expanded Participating Areas are effective May 1, 1991, February 1, 1992, April 1, 1992 and December 1, 1992, respectively. Copies of this application, with enclosures, are being sent to the working interest owners on the attached sheet.

Very truly yours,

PHILLIPS PETROLEUM COMPANY



Patrick H. Noah
Area Landman
San Juan Basin
(505) 599-3410


The signatory approvals below are for the Eleventh, Twelfth, Thirteenth and Fourteenth expanded participating areas of the Fruitland Formation in the San Juan 29-6 Unit #14-08-001-439.

APPROVED _____
Assistant District Manager, Minerals
Bureau of Land Management
Subject to like approval by the
Commissioner of Public Lands and the
Oil Conservation Division

DATE _____

APPROVED _____
Commissioner of Public Lands
Subject to like approval by the
Area Oil and Gas Supervisor and the
Oil Conservation Division

DATE _____

APPROVED  _____
Oil Conservation Division
Subject to like approval by the
Area Oil and Gas Supervisor and the
Commissioner of Public Lands

DATE 11/16/94

cc: w/o attachments
J. L. Mathis
J. W. Taylor (r) Supervisors

**SAN JUAN 29-6 UNIT
WORKING INTEREST OWNERS**

American West Gas - 1993 L.L.C.
Amoco Production Company
Bolack Minerals Company
Elizabeth Calloway
Central Resources, Inc.
Conoco Inc.
Mrs. Veva Jean Gibbard
First National Bank of Fort Worth
Trustee - Eula M. Johnston
James J. Johnston
V. A. Johnston Family Trust
Koch Exploration Company
James E. McElvain, Executor
Estate of Carl McElvain
T.H. McElvain Oil & Gas
Meridian Oil Production Inc.
Phillips Petroleum Company
Phillips-San Juan Partners, L.P.
Petrox, Inc.
RKC, Inc.
James M. Raymond
Maydell Miller Mast Trust
Corinne Miller Gay Trust
San Juan Basin Partnership
Sable Energy Ltd.
Tipperary Oil & Gas Corporation
Fred E. Turner, Jr.
J. Glen Turner, Jr.
John L. Turner
Mary Francis Turner, Jr.
Unit Drilling & Exploration
Vastar Resouces, Inc.
Vaughan-McElvain Energy
Williams Production Company
The Wiser Oil Company



PHILLIPS PETROLEUM COMPANY

FARMINGTON, NEW MEXICO 87401
5525 HWY 64 NBU 3004

September 26, 1994

United States Department of Interior
Bureau of Land Management
Farmington Resource Area
1235 LaPlata Highway
Farmington, New Mexico 87401

State of New Mexico
Commissioner of Public Lands
Attn: Mr. Floyd O. Prando
P. O. Box 1148
Santa Fe, New Mexico 87504-1148

State of New Mexico
Oil Conservation Division
Attn: Mr. William J. Lemay
State Land Office Building
P. O. Box 2088
Santa Fe, New Mexico 87504

Re: San Juan 29-6 Unit
#14-08-001-439
Fruitland Participating Area
Expansions
Sixth Expansion - eff. 08/01/90
Seventh Expansion - eff. 09/01/90
Eighth Expansion - eff. 01/01/91
Ninth Expansion - eff. 03/01/91
Tenth Expansion - eff. 04/01/91
Rio Arriba County, New Mexico
GF-5396

Gentlemen:

Under date of August 17, 1994, Phillips Petroleum Company submitted the captioned San Juan 29-6 Unit Expansions for your approval. Schedules VII, VII, IX, X and XI were enclosed describing the Participating Areas and indicating the percentages of unitized substances allocated to the unit tracts according to the Fruitland ownership of such tracts.

Enclosed are corrected "Page 2" of Schedule X and Schedule XI. These pages correct Tract 5B wherein Williams Production Company was erroneously credited with Meridian Oil Production Inc.'s interest.

Please insert these corrected pages in the Schedules provided August 17, and discard the incorrect pages. We apologize for any inconvenience this may have caused.

Very truly yours,

PHILLIPS PETROLEUM COMPANY

Kathryn D. Burleson
Sr. Land Aide
Farmington Area

PHILLIPS PETROLEUM COMPANY

SCHEDULE X

THE 009 EXPANDED PARTICIPATING AREA FOR FRUITLAND COAL FORMATION
SAN JUAN 29-6 UNIT AREA

DATE 07/27/94

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PERCENT ACTUAL PARTICIPATION
SF-078426	29N 6W	720.00		TRACT: 005			8.514936
SEC. 18	W/2 SE/4, E/2 E/2, NW/4 NE/4		ORRI: ROYALTY: WORKING INTEREST: MERIDIAN OIL PRODUCTION VASTAR RESOURCES, INC.		4.000000 12.500000 62.625000 20.875000	4.000000 12.500000 62.625000 20.875000	
SEC. 19	NE/4						
SEC. 30	NE/4, W/2 SE/4, NE/4 SE/4						
REMARKS:	SAN JUAN 29-6 UNIT #213 SAN JUAN 29-6 UNIT #236 SAN JUAN 29-6 UNIT #240 SAN JUAN 29-6 UNIT #241						
SF-078426-A	29N 6W	120.00		TRACT: 005A			1.419156
SEC. 17	W/2 SE/4, SE/4 SE/4		ORRI: ROYALTY: WORKING INTEREST: VASTAR RESOURCES, INC.		4.000000 12.500000 83.500000	4.000000 12.500000 83.500000	
REMARKS:	SAN JUAN 29-6 UNIT #209						
SF-078426	29N 6W	280.00		TRACT: 005B			3.311364
SEC. 17	SW/4, S/2 NW/4, NW/4 NW/4		ORRI: ROYALTY: WORKING INTEREST: PHILLIPS PETROLEUM COMPANY MERIDIAN OIL PRODUCTION INC. VASTAR RESOURCES, INC.		4.000000 12.500000 57.471380 5.153620 20.875000	4.000000 12.500000 57.471380 5.153620 20.875000	
REMARKS:	SAN JUAN 29-6 UNIT #208						
TOTAL					100.000000	100.000000	

DATE 07/27/94

PHILLIPS PETROLEUM COMPANY
SCHEDULE XI
THE 010 EXPANDED PARTICIPATING AREA FOR FRUITLAND COAL FORMATION
SAN JUAN 29-6 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PERCENT ACTUAL PARTICIPATION
SF-078426	29N 6W	960.00		TRACT: 005			9.630925
SEC. 18	W/2 SE/4, E/2 E/2, NW/4 NE/4		ROYALTY: WORKING INTEREST: MERIDIAN OIL PRODUCTION VASTAR RESOURCES, INC.		4.000000 12.500000 62.625000 20.875000	4.000000 12.500000 62.625000 20.875000	
SEC. 19	NE/4, W/2 SW/4, SE/4 SW/4						
SEC. 20	E/2 NE/4, SW/4 SE/4						
SEC. 30	NE/4, W/2 SE/4, NE/4 SE/4						
TOTAL					100.000000	100.000000	
REMARKS: SAN JUAN 29-6 UNIT #208 SAN JUAN 29-6 UNIT #211 SAN JUAN 29-6 UNIT #213 SAN JUAN 29-6 UNIT #236 SAN JUAN 29-6 UNIT #240 SAN JUAN 29-6 UNIT #241 SAN JUAN 29-6 UNIT #242							
SF-078426-A	29N 6W	240.00		TRACT: 005A			2.407731
SEC. 17	W/2 SE/4, SE/4 SE/4		ROYALTY: WORKING INTEREST: VASTAR RESOURCES, INC.		4.000000 12.500000 83.500000	4.000000 12.500000 83.500000	
SEC. 20	W/2 NW/4, NW/4 SW/4						
TOTAL					100.000000	100.000000	
REMARKS: SAN JUAN 29-6 UNIT #209 SAN JUAN 29-6 UNIT #210							
SF-078426	29N 6W	280.00		TRACT: 005B			2.809020
SEC. 17	SW/4, S/2 NW/4, NW/4 NW/4		ROYALTY: WORKING INTEREST: PHILLIPS PETROLEUM COMPANY MERIDIAN OIL PRODUCTION INC. VASTAR RESOURCES, INC.		4.000000 12.500000 57.471380 5.153620 20.875000	4.000000 12.500000 57.471380 5.153620 20.875000	
TOTAL					100.000000	100.000000	
REMARKS: SAN JUAN 29-6 UNIT #208							

1994 SEP 21 AM 8 50

San Juan 29-6 (FR PA)
3180 (07327)

SEP 14 1994

CERTIFIED--RETURN RECEIPT REQUESTED
Z-777-608-651

Phillips Petroleum Company
5525 Highway 64, NBU 3004
Farmington, NM 87401

Gentlemen:

We have reviewed your application, dated August 17, 1994, for revision of the Fruitland Participating Area in the San Juan 29-6 Unit. You submitted the following revisions:

Revision	Effect. Date	Well Number	Ded	Sec	T.	R.
6th	8/1/90	222	E½	12	29N	6W
		245*	E½	8	29N	6W
7th	9/1/90	236	W½	18	29N	6W
		240*	E½	18	29N	6W
8th	1/1/91	202	W½	6	29N	6W
		204	E½	7	29N	6W
		203*	W½	7	29N	6W
9th	3/1/91	237	E½	1	29N	6W
		241	E½	19	29N	6W
		238	W½	1	29N	6W
		239*	E½	2	29N	6W
10th	4/1/91	210	W½	20	29N	6W
		242	W½	19	29N	6W
		224	E½	13	29N	6W
		205	W½	21	29N	6W
		211*	E½	20	29N	6W

*Intervening Drilling Block

All wells included in the revisions, except certain wells on the Intervening Drilling Blocks, were determined to be capable of producing in paying quantities per the Bureau of Land Management decisions dated December 7, 1993, and July 12, 1994.

The 6th through 10th revisions of the San Juan 29-6 Unit Fruitland Participating Area are hereby approved. The effective dates of each revision are listed in the above table.

Under provisions of 43 CFR 3165.3, you may request an Administrative Review of the order(s) described above. Such request, including all supporting documents, must be filed in writing within 20 business days of receipt of this notice and must be filed with the State Director, Bureau of Land Management, P. O. Box 27115, Santa Fe, New Mexico 87502-0115. Such request shall not result in a suspension of the order(s) unless the reviewing official so determines. Procedures governing appeals from instructions, orders or decisions are contained in 43 CFR 3165.4 and 43 CFR 4.400 *et seq.*

If you have any questions concerning these decisions, please call Duane Spencer at (505) 599-6350.

Sincerely,

/s/ Duane Spencer

Duane W. Spencer
Chief, Branch of Reservoir Management

5 Enclosures:

- 1 - Exhibit B 6th Rev.
- 2 - Exhibit B 7th Rev.
- 3 - Exhibit B 8th Rev.
- 4 - Exhibit B 9th Rev.
- 5 - Exhibit B 10th Rev.

cc:

MMS, MS-3240, Denver, CO w/enclosures

NMOCD, Santa Fe, NM

Commissioner of Public Lands, Santa Fe, NM



PHILLIPS PETROLEUM COMPANY

FARMINGTON, NEW MEXICO 87401
5525 HWY. 64 NBU 3004

RECEIVED
OIL CONSERVATION DIVISION

SEP 01 - 22 AM 8 5

August 19, 1994

Assistant District Manager, Minerals
Bureau of Land Management
Farmington Resource Area
1235 La Plata Highway
Farmington, New Mexico 87401

State of New Mexico
Commissioner Of Public Lands
Attn: Mr. Floyd O. Prando
P. O. Box 1148
Santa Fe, New Mexico 87504-1148

State of New Mexico
Oil Conservation Division
Attn: Mr. William J. LeMay
310 Old Santa Fe Trail, Room 206
Santa Fe, New Mexico 87503

Re: San Juan 29-6 Unit
#14-08-001-439
Commerciality Determination
Fruitland Formation
Rio Arriba County, NM
GF-5396

Gentlemen:

By letter dated August 23, 1993, and June 20, 1994, respectively, Phillips Petroleum Company, as Operator, submitted determinations of various wells either capable or not capable of producing unitized substances in paying quantities, pursuant to the provisions of Section 11(a) of the San Juan 29-6 Unit Agreement, #14-08-001-439, approved December 5, 1952. Phillips subsequently received confirmation of its determination in the Bureau of Land Management letter dated December 7, 1993 and June 12, 1994.

Phillips' letter stated that as adequate production history was obtained, additional submittals would be provided using the same format. Accordingly, enclosed for your review are eighteen (18) additional Commerciality Determinations. The list submitted with Phillips' June 20, 1994 letter has been updated to reflect the current disposition of all wells. Those previously confirmed paying wells identified below as Paying Well-A have now been incorporated in the Sixth through Tenth Participating Area Expansion Schedules and submitted for approval. Upon receipt of response from the BLM and concurring responses from the Commissioner of Public Lands and New Mexico Oil Conservation Division, the formal Participating Area application with accompanying Lease Schedules with unit tract descriptions and working interest ownerships for each well will be prepared for each expansion of the Participating Area based on those wells for which Commerciality Determinations are included with this letter.

San Juan 29-6 Unit
 #14-08-001-439
 Commerciality Determination
 August 19, 1994
 Page 2

(1)	(2)	(3)	(4)	(5)	(6)*
<u>Test Date</u>	<u>Well Number</u>	<u>T29N-R6W Drill Block</u>	<u>Acres</u>	<u>Date Submitted for Paying Well Determination</u>	<u>Disposition</u>
12-10-89	209	E/2 Section 17	320.00	12-06-91	Initial PA
01-14-90	201	Lots 8,9, S/2 NE/4, SE/4 Section 6	318.95	12-06-91	1st Expansion
01-22-90	208	W/2 Section 17	320.00	12-06-91	1st Expansion
02-02-90	212	W/2 Section 30	320.00	12-06-91	DB
02-06-90	207	Lots 7,8, S/2 NW/4, SW/4 Section 2	319.13	12-06-91	2nd Expansion
02-10-90	213	E/2 Section 30	320.00	12-06-91	2nd Expansion
02-13-90	206	Lots 5, 9, 10, E/2 SE/4, NW/4 SE/4, SW/4 SW/4, Part of Tracts 40 & 41 Section 4	319.91	12-06-91	2nd Expansion
03-08-90	219	Lots 1-4, SE/4, Part of Tract 42 Sec. 10	320.00	12-06-91	3rd Expansion
03-15-90	214	Lots 5,6,11-16, Part of Tracts 38 & 42 Section 3	318.72	12-06-91	3rd Expansion
03-30-90	216	Lots 6-8,11,12, S/2 SW/4, W/2 NW/4, Tracts 40 & 41 Section 4	319.35	12-06-91	3rd Expansion
04-08-90	231	Lots 1-4,W/2 E/2 Section 36	234.16	12-06-91	DB
04-30-90	215-IDB	SW/4,Lots 7-10, Part of Tracts 38 & 40 Section 3	321.47	12-06-91	3rd Expansion
05-05-90	221	Lot 1,SW/4,E/2 NW/4, SW/4 NW/4, Part of Tract 42 Section 11	320.00	12-06-91	4th Expansion
05-10-90	225	W/2 Section 13	320.00	12-06-91	DB
05-23-90	228	E/2 Section 15	320.00	06-20-94	DB
06-05-90	223	Lot 2,W/2 NW/4, SE/4 NW/4, SW/4 Part of Tract 37 Section 12	320.00	12-06-91	5th Expansion
06-14-90	220	E/2 Section 11	320.00	12-06-91	5th Expansion
06-21-90	218	Lots 7,8,S/2 NW/4, SW/4, Section 5	318.60	12-06-91	5th Expansion

San Juan 29-6 Unit
#14-08-001-439
Commerciality Determination
August 19, 1994
Page 3

(1)	(2)	(3)	(4)	(5)	(6)*
<u>Test Date</u>	<u>Well Number</u>	<u>T29N-R6W Drill Block</u>	<u>Acres</u>	<u>Date Submitted for Paying Well Determination</u>	<u>Disposition</u>
07-07-90	222	Lots 1,3,4,5,6, W/2 SE/4, Part of Tr. 37 Section 12	229.85	08-23-93	Paying Well-A
07-16-90	217-IDB	Lots 5,6,SW/4 NE/4, W/2 SE/4,SE/4 SE/4 Sec. 5	318.60	12-06-91	5th Expansion
08-02-90	236	W/2 Section 18	320.00	06-20-94	Paying Well-A
12-04-90	202	Lots 10,11,S/2 NW/4, SW/4 Section 6	319.65	06-20-94	Paying Well-A
12-16-90	204	E/2 Section 7	320.00	06-20-94	Paying Well-A
01-02-91	245	E/2 Section 8	320.00	08-23-93	Paying Well-A
01-10-91	257	W/2 Section 9	320.00	06-20-94	DB
01-21-91	203-IDB	W/2 Section 7	320.00	06-20-94	Paying Well-A
02-07-91	240-IDB	E/2 Section 18	320.00	06-20-94	Paying Well-A
02-14-91	237	Lots 5,6,9,10,11,14, 15, SW/4 NE/4, Part of Tract 37 Sec. 1	232.73	08-23-93	Paying Well-A
02-19-91	241	E/2 Section 19	320.00	06-20-94	Paying Well-A
02-26-91	238	Lots 7,8,12,13, S/2 NW/4, W/2 SW/4, Part of Tract 37 Sec. 1	319.54	08-23-93	Paying Well-A
03-04-91	210	W/2 Section 20	320.00	06-20-94	Paying Well-A
03-08-91	239	Lots 5,6,S/2 NE/4, SE/4	319.23	08-23-93	Paying Well-A
03-17-91	242	W/2 Section 19	320.00	06-20-94	Paying Well-A
03-19-91	224	Lots 1-4, W/2 E/2	232.16	08-23-93	Paying Well-A
03-26-91	205	W/2 Section 21	320.00	06-20-94	Paying Well-A
04-10-91	258	W/2 Section 16	320.00	08-23-93	Paying Well-A
01-04-92	247	W/2 Section 10	320.00	08-18-94	Non-PA
01-14-92	262	E/2 Section 21	320.00	08-18-94	Paying Well
01-16-92	226	E/2 Section 14	320.00	08-18-94	Paying Well
01-26-92	227	W/2 Section 14	320.00	08-18-94	Non-PA
03-12-92	259	E/2 Section 9	320.00	08-18-94	Paying Well
03-26-92	246-IDB	W/2 Section 8	320.00	12-26-91	5th Expansion

San Juan 29-6 Unit
 #14-08-001-439
 Commerciality Determination
 August 19, 1994
 Page 4


(1)	(2)	(3)	(4)	(5)	(6)*
<u>Test Date</u>	<u>Well Number</u>	<u>T29N-R6W Drill Block</u>	<u>Acres</u>	<u>Date Submitted for Paying Well Determination</u>	<u>Disposition</u>
09-24-92	263	W/2 Section 22	320.00	08-18-94	Non-PA
10-12-92	260	E/2 Section 16	320.00	08-18-94	Paying Well
10-18-92	211	E/2 Section 20	320.00	08-18-94	Paying Well
10-20-92	248	W/2 Section 15	320.00	08-18-94	Non-PA
10-25-92	244	W/2 Section 31	320.00	08-18-94	Non-PA
10-29-92	251	W/2 Section 23	320.00	08-18-94	Non-PA
11-04-92	243	E/2 Section 31	320.00	08-18-94	Non-PA
11-12-92	230	E/2 Section 35	320.00	08-18-94	Non-PA
11-13-92	234	W/2 Section 34	320.00	08-18-94	Non-PA
11-19-92	249	E/2 Section 22	320.00	08-18-94	Paying Well
11-20-92	235	E/2 Section 34	320.00	08-18-94	Paying Well
11-27-92	229	W/2 Section 35	320.00	08-18-94	Paying Well
12-19-92	233	W/2 Section 26	320.00	08-18-94	Non-PA

*All previously approved expansions are indicated by expansion number. All wells previously determined by the regulatory agencies as wells not capable of production in paying quantities are labeled Drill Block Well (DB). All wells previously determined by the regulatory agencies as well capable of production in paying quantities but not yet formally approved as part of a participating area are labeled "Paying Well-A". Wells submitted herewith that are determined to be capable of production in paying quantities are labeled "Paying Well". Wells submitted herewith that are determined not to be capable of production in paying quantities are labeled "Non-PA".

Copies of this submittal with enclosures are being sent to the working interest owners on the attached sheet.

Very truly yours,

PHILLIPS PETROLEUM COMPANY


 A. J. Kieke, CPL
 Area Landman
 San Juan Basin
 (505) 599-3410

w/o attachments
 cc: J. W. Taylor
 K. L. Czirr (r) Sean Helton
 w/attachments
 SJ 29-6 Unit Owners

SAN JUAN 29-6 UNIT
WORKING INTEREST OWNERS
American West Gas - 1993 L.L.C.

Amoco Production Company

Bolack Minerals Company

Elizabeth Calloway

Central Resources, Inc.

Conoco Inc.

Mrs. Veva Jean Gibbard

First National Bank of Fort Worth
Trustee - Eula M. Johnston

James J. Johnston

V. A. Johnston Family Trust

Koch Exploration Company

James E. McElvain, Executor
Estate of Carl McElvain

T.H. McElvain Oil & Gas

Meridian Oil Production Inc.

Petrox, Inc.

RKC, Inc.

James M. Raymond
Maydell Miller Mast Trust
Corinne Miller Gay Trust

Tipperary Oil & Gas Corporation

Fred E. Turner, Jr.

J. Glen Turner, Jr.

John L. Turner

Mary Francis Turner, Jr.

Unit Drilling & Exploration

Valero Coal Company

Vastar Resouces, Inc.

Vaughan-McElvain Energy

WHAM, a Partnership

Williams Production Company

The Wiser Oil Company

PHILLIPS PETROLEUM COMPANY
Commerciality Determination

San Juan 29-6 Unit #247
Fruitland Coal
W/2 Section 10-T29N-R6W
Rio Arriba County, New Mexico

Date of First Delivery: 09/10/93

Date of Commerciality Submittal:

Well Cost Data

Total Well Costs:	338,180		
Production Taxes & Royalty:	20.442175%	BLM	12.50
		Severance	3.750000
		School	4.000000
		Conservation	0.180000
		Ad Valorem	0.012175

Average Product Pricing

1994 1.46/ MCF

Estimated Gross Annual Production and Operating Expenses

Year	Gas (MMCF)	* Operating Expenses (\$)
1993 (4 mo)	20 (Actual)	2,722 (Actual)
1994	40	
1995	40	
1996	40	
1997	40	
1998	40	
1999	40	
2000	40	
2001	40	
2002	40	
2003	40	
2004	40	
2005	40	
2006	40	
2007	40	

* Operating Expenses were not escalated for inflation.

SAN JUAN 29-6 UNIT #247

COMMERCIALITY DETERMINATION

The subject well was spudded on 12/02/91 in the west half of Section 10, T29N-R6W. After a total depth of 3400' was reached on 02/26/92, the well was initially completed open hole by means of cavitation. After cavitation, the well did not respond as desired. In fact, the gas pitoted at 28 MCF/D, while the water tested 100 BW/D.

Since the coal appeared not to be cleated, a 5-1/2" linear was set at 3399' with the top of the linear at 3178'. The Fruitland Coal formation was perforated with 4 SPF from 3260' to 3392' for a total of 168 shots. The well was fracture stimulated on 12/17/92 with 37,353 gals of 30 ppg gelled water, 215,000 lbs of 16/30 Brady sand, and 1,501,693 SCF of nitrogen at 70% quality. The fracture treatment produced very limited results on the extremely tight Fruitland Coal formation. In fact, the subject well only tested/pitoted 116 MCF/D with 1 GWPH following the fracture treatment. Currently, the well is producing only 49 MCF/D with a trace of water from the perforated Fruitland Coal interval 3260' to 3392'.

Taking into account the subject well's past history and current rates, the well will obviously not be deemed commercial in the 29-6 Unit Participating Area. As a result, the economic evaluation and operating expenses were not prepared for this commerciality determination report.

MEP81-01

PARPI - WELLZONE PRODUCTION BROWSE

Date: 6/14/94

YEARLY TOTALS

User: #AM3

Wellzone F8B07 01 Yr: 1993 Mth: 01 Property: 650330 SAN JUAN 29-6 UNIT #
 Screen: 1 (1-Prod, 2-Inj, 3-Both) Well No: 000247
 Type: T (T-Total, D-Daily Avg) Field: BASIN
 Period: Y (M-Monthly, Y-Yearly, C-Cumm) Reserv: 20001 FRUITLAND COAL

ADJ	PRODUCED			DAYS		WELL	
FLG DATE	OIL (BBL)	GAS (MCF)	WATER (BBL)	PROD	OP	ST	CL TY
1993	0.00	19,959	0	106.00	106		
1994	0.00	9,010	0	98.00	98		

NO MORE DATA AVAILABLE

PA1=ICE PA2=Exit PF1=Help PF3=End PF11=GRAPH
 Transfer-> PF7=Backward PF8=Forward PF10=GRAND MENU PF12=LOG GRAPH

9/93-4/94

INITIAL PROD / MNTH : 10976.1

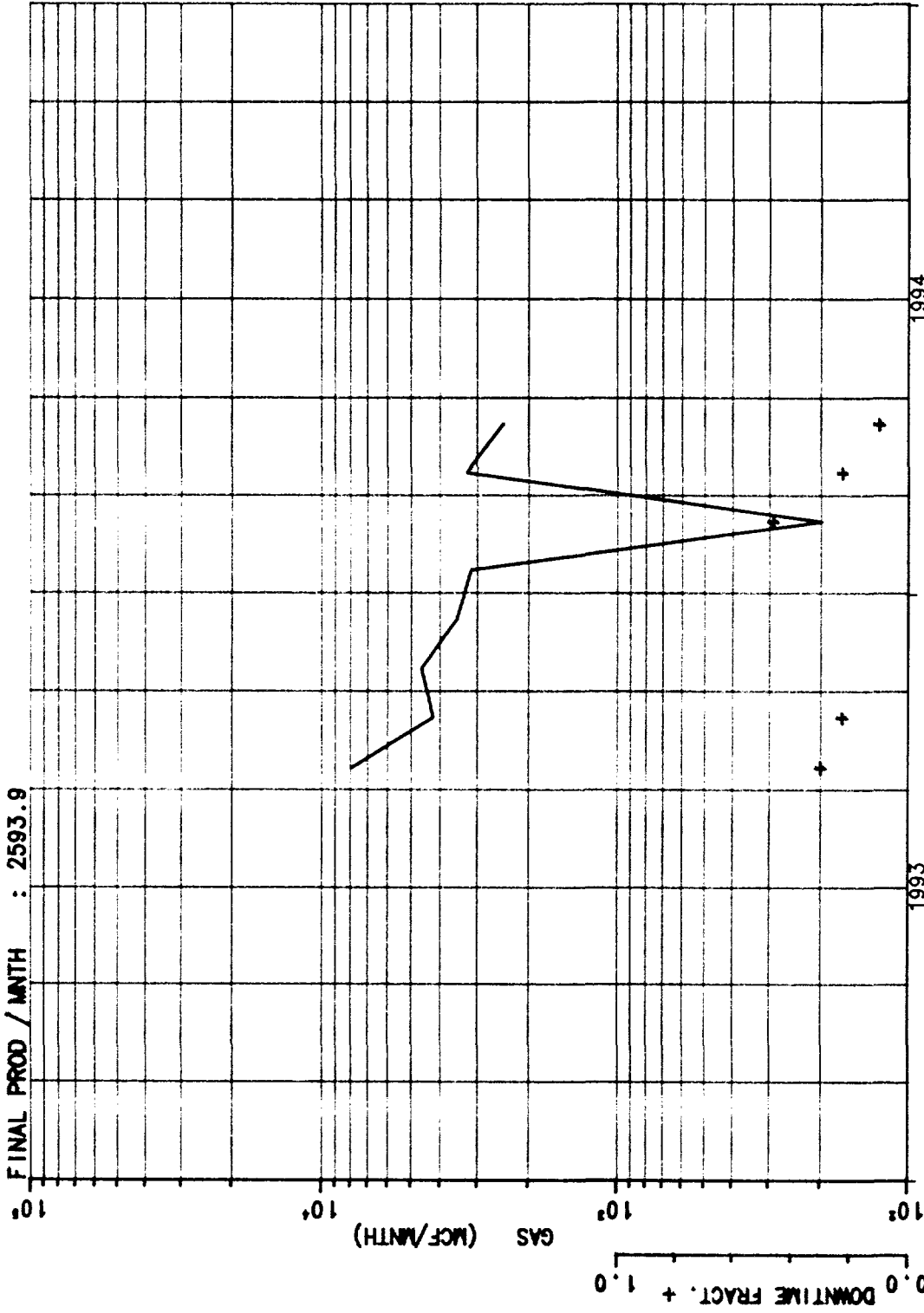
REMAINING LIFE : 0.67

0.00

CUM PRODUCTION : 28969.

FINAL PROD / MNTH : 2593.9

Current Cumms
28969. MCF GAS



AVERAGE ONTIME = 0.840

LEASE- 650330 : SAN JUAN 29-6 UNIT #247

RESVR- 001 : BASIN

WELL - 000247 PHS WELL PRODUCTION

FRUITLAND COAL

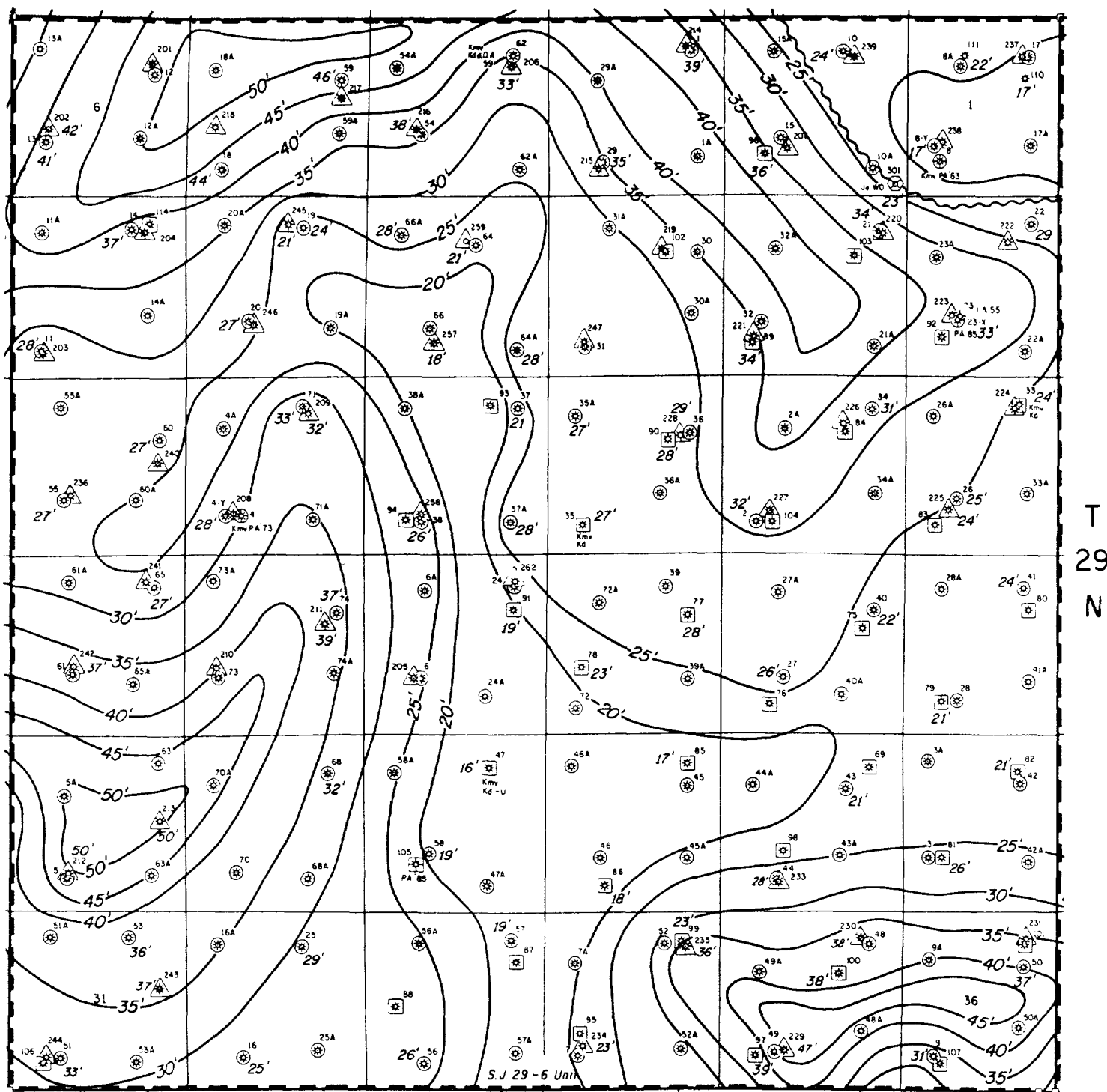
F880701

ZONE-650330001000247 F880701

API-30039248450000

SWD AND GATHERING SYSTEM COST

The SWD facility and gathering system costs were allocated equally back to each well in the unit. The allocated costs were then charged against the well by including them in the operating cost in the fifteen year forecast.



5-1-92

PHILLIPS PETROLEUM COMPANY
Commerciality Determination

San Juan 29-6 Unit #262
 Fruitland Coal
 E/2 Section 21-T29N-R6W
 Rio Arriba County, New Mexico

Date of First Delivery: 05/11/93

Date of Commerciality Submittal: _____

Well Cost Data

Total Well Costs:	<u>358,431</u>		
Production Taxes & Royalty:	<u>20.442175%</u>	BLM	12.50
		Severance	3.750000
		School	4.000000
		Conservation	0.180000
		Ad Valorem	0.012175

Average Product Pricing

1994 1.46/ MCF

Estimated Gross Annual Production and Operating Expenses

<u>Year</u>	<u>Gas (MMCF)</u>	<u>* Operating Expenses (\$)</u>
1993 (8 mo)	480 (Actual)	86,997 (Actual)
1994	1816	112,651
1995	1729	112,651
1996	1291	112,651
1997	1001	112,651
1998	798	112,651
1999	651	112,651
2000	542	112,651
2001	458	112,651
2002	392	112,651
2003	339	112,651
2004	296	112,651
2005	261	112,651
2006	232	112,651
2007	207	112,651

* Operating Expenses were not escalated for inflation.

MEP81-01

PARPI - WELLZONE PRODUCTION BROWSE

Date: 6/14/94

YEARLY TOTALS

User: #AM3

Wellzone F8B08 01 Yr: 1993 Mth: 01 Property: 650331 SAN JUAN 29-6 UNIT #
 Screen: 1 (1-Prod, 2-Inj, 3-Both) Well No: 000262
 Type: T (T-Total, D-Daily Avg) Field: BASIN
 Period: Y (M-Monthly, Y-Yearly, C-Cumm) Reserv: 20001 FRUITLAND COAL

ADJ	PRODUCED	DAYS	WELL					
FLG DATE	OIL (BBL)	GAS (MCF)	WATER (BBL)	PROD	OP	ST	CL	TY
1993	0.00	480,107	10,760	221.00	221			
1994	0.00	420,544	8,790	118.00	118			

NO MORE DATA AVAILABLE

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PF3=End

PF11=GRAPH

Transfer-> _____

PF7=Backward

PF8=Forward

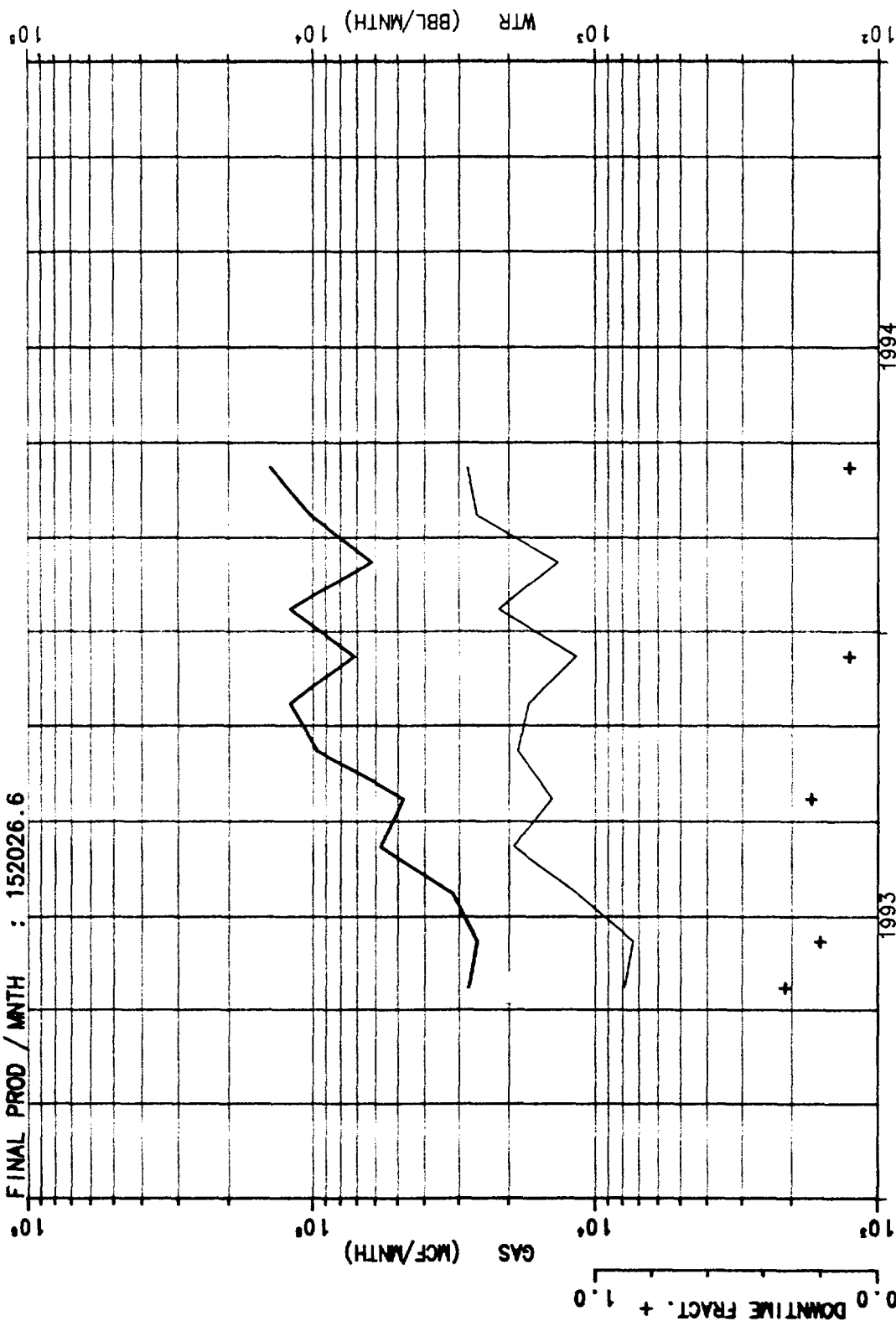
PF10=GRAND MENU

PF12=LOG GRAPH

Current Cums
900650. MCF GAS
19550. BBL WTR

INITIAL PROD / MNTN : 40844.4
REMAINING LIFE : 1.00

CUM PRODUCTION	: 900650.
FINAL PROD / MNTN	: 152026.6



AVERAGE ON TIME -0.929

LEASE- 650331 : SAN JUAN 29-6 UNIT #262
RESRV- 001 : BASIN
WELL - 000262 PHS WELL PRODUCTION

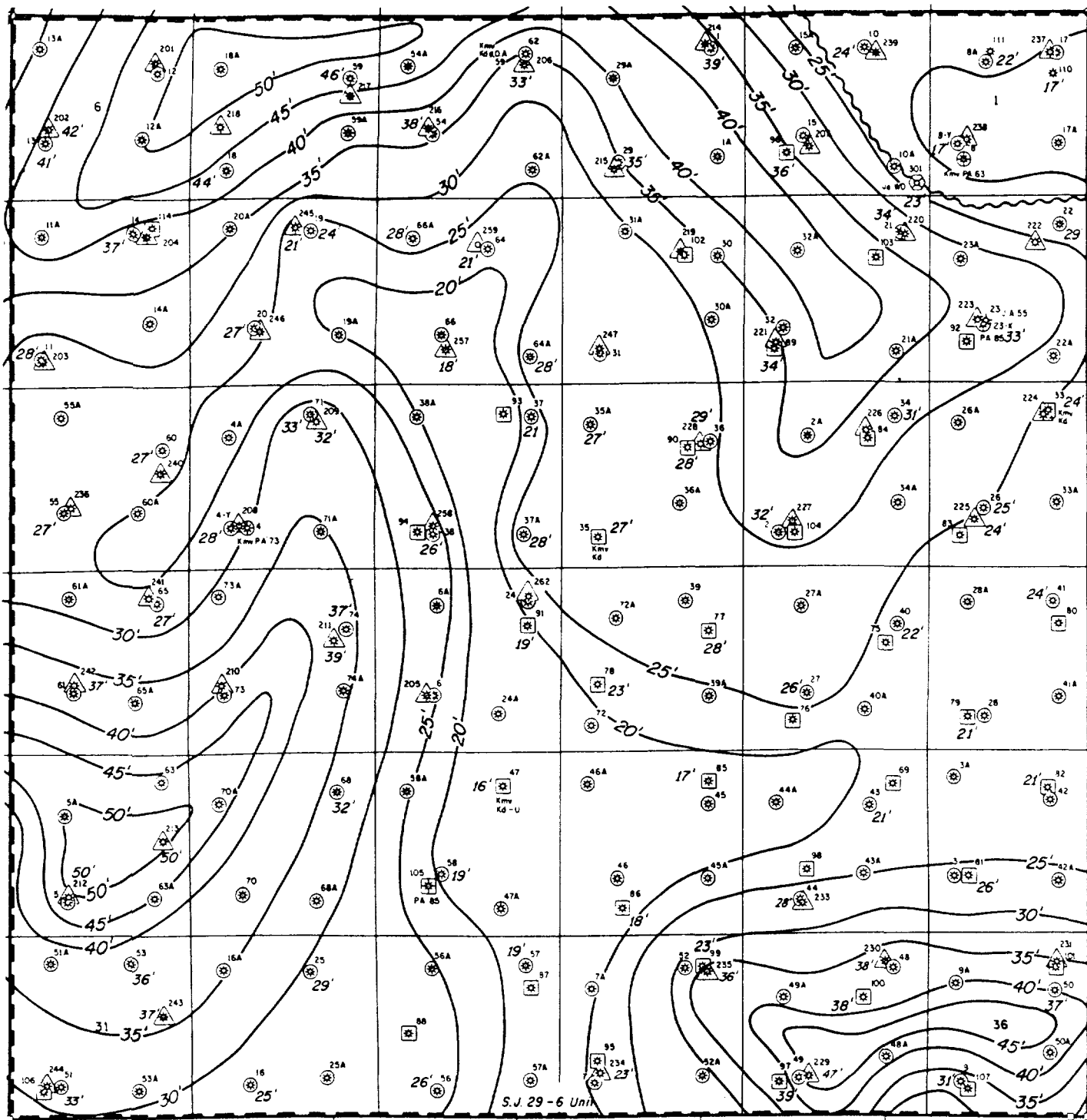
F880801
ZONE-650331001000262 F880801
AP1-30039250900000

CASE : CD 29-6 #262 ** ECONOMICS CASE SUMMARY **
 DESCRIPTION: COMMERCIALITY DETERMINATIONS WORKING INT : 100.000%
 CASE REVENUE INT : 79.558% OIL REV INT : 79.558% GAS REV INT : 79.558%
 CASE LIFE -FIRST MO-YR : 1-1992 PROD MO-YR : 5-1993 LAST YEAR : 2007

MEASURES OF MERIT		NET CASH FLOW SUMMARY(M\$)	
AARR (%)	: 168.5	CAPITAL OUTLAY	: 358.4
BREAKEVEN POINT (YRS.)	: 1.8	TOTAL REVENUE	: 12188.2
PAYOUT (YRS.)	: .5	TOTAL EXPENSES	: 1664.1
NTER	: 29.4	IBRT	: 10524.0
ECONOMIC LIFE (YRS.)	: 14.7	CURRENT INCOME TAX	:
RESERVES SUMMARY		SALVAGE	:
OIL-GROSS MBBLS	:	CASH RETURNED	: 10524.0
NET MBBLS	:	CASH FLOW	: 10165.6
NET REVENUE(M\$)	:	NET PRESENT VALUE (M\$)	P.I.
BBL/DAY TO PAYOUT:	:	@ 13.0 %:	5312.6 15.82
GAS GROSS MMCF	: 10493.1	@ 10.0 %:	6069.6 17.93
NET MMCF	: 8348.0	@ 8.0 %:	6665.0 19.60
NET REVENUE(M\$)	: 12188.2	@ 6.0 %:	7350.4 21.51
MCF/DAY TO PAYOUT:	: 1973.0		
PRESS "ENTER" TO CONTINUE...		GOWEE_CASE_SUM	

SWD AND GATHERING SYSTEM COST

The SWD facility and gathering system costs were allocated equally back to each well in the unit. The allocated costs were then charged against the well by including them in the operating cost in the fifteen year forecast.



T
29
N

R - 6 - W

PRODUCING INTERVAL

Kfm	FARMINGTON	Kfm	
Ks	KIRTLAND	Ks	
△	FRUITLAND	Kf	
☆	PICTURED CLIFFS	Kpc	
⊗	CHACRA	Kc	
⊙	LA VENTANA	Klv	
⊛	MESAVERDE	Kmv	<div> <div>Kch</div> <div>Km</div> <div>Kpi</div> </div> <div> <div>CLIFFHOUSE</div> <div>MENEPEE</div> <div>POINT LOOKOUT</div> </div>
⬠	GALLUP	Kgi	<div> <div>K1</div> <div>Kgn</div> </div> <div> <div>TOCITO</div> <div>GREENHORN</div> </div>
⬡	DAKOTA	Kd	
⊛	ALL PRODUCTION BELOW CRETACEOUS	Je	ENTRADA
		Kp	PARADOX
		Kpc	BARKER CREEK
		W	LEADVILLE



PHILLIPS PETROLEUM COMPANY
FARMINGTON AREA

S.J. 29-6 UNIT
Rio Arriba Co., N.M.

AGGREGATE NET COAL ISOLITH
OF THE FRUITLAND COAL

CL: 5'

5-1-92

PHILLIPS PETROLEUM COMPANY
Commerciality Determination

San Juan 29-6 Unit #226
Fruitland Coal
E/2 Section 14-T29N-R6W
Rio Arriba County, New Mexico

Date of First Delivery: 05/07/93

Date of Commerciality Submittal: _____

Well Cost Data

Total Well Costs:	325,745		
Production Taxes & Royalty:	20.442175%	BLM	12.50
		Severance	3.750000
		School	4.000000
		Conservation	0.180000
		Ad Valorem	0.012175

Average Product Pricing

1994 1.46/ MCF

Estimated Gross Annual Production and Operating Expenses

<u>Year</u>	<u>Gas (MMCF)</u>	<u>* Operating Expenses (\$)</u>
1993 (8 mo)	697 (Actual)	11,256 (Actual)
1994	1686	30,264
1995	1606	30,264
1996	1199	30,264
1997	929	30,264
1998	741	30,264
1999	605	30,264
2000	503	30,264
2001	425	30,264
2002	364	30,264
2003	315	30,264
2004	275	30,264
2005	243	30,264
2006	215	30,264
2007	193	30,264

* Operating Expenses were not escalated for inflation.

MEP81-01

PARPI - WELLZONE PRODUCTION BROWSE

Date: 6/15/94

YEARLY TOTALS

User: #AM3

Wellzone F8923 01 Yr: 1993 Mth: — Property: 650077 SAN JUAN 29-6 UNIT #
 Screen: 1 (1-Prod, 2-Inj, 3-Both) Well No: 000226
 Type: T (T-Total, D-Daily Avg) Field: BASIN
 Period: Y (M-Monthly, Y-Yearly, C-Cumm) Reserv: 20001 FRUITLAND COAL

ADJ		PRODUCED			DAYS		WELL		
FLG	DATE	OIL (BBL)	GAS (MCF)	WATER (BBL)	PROD	OP	ST	CL	TY
	1993	0.00	697,084	2,080	230.04	232			
	1994	0.00	375,841	485	118.00	118			

NO MORE DATA AVAILABLE

PA1=ICE PA2=Exit PF1=Help PF3=End PF11=GRAPH
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5/93-4/94

INITIAL PROD / MNTH : 9471.1

REMAINING LIFE : 1.00

0.00

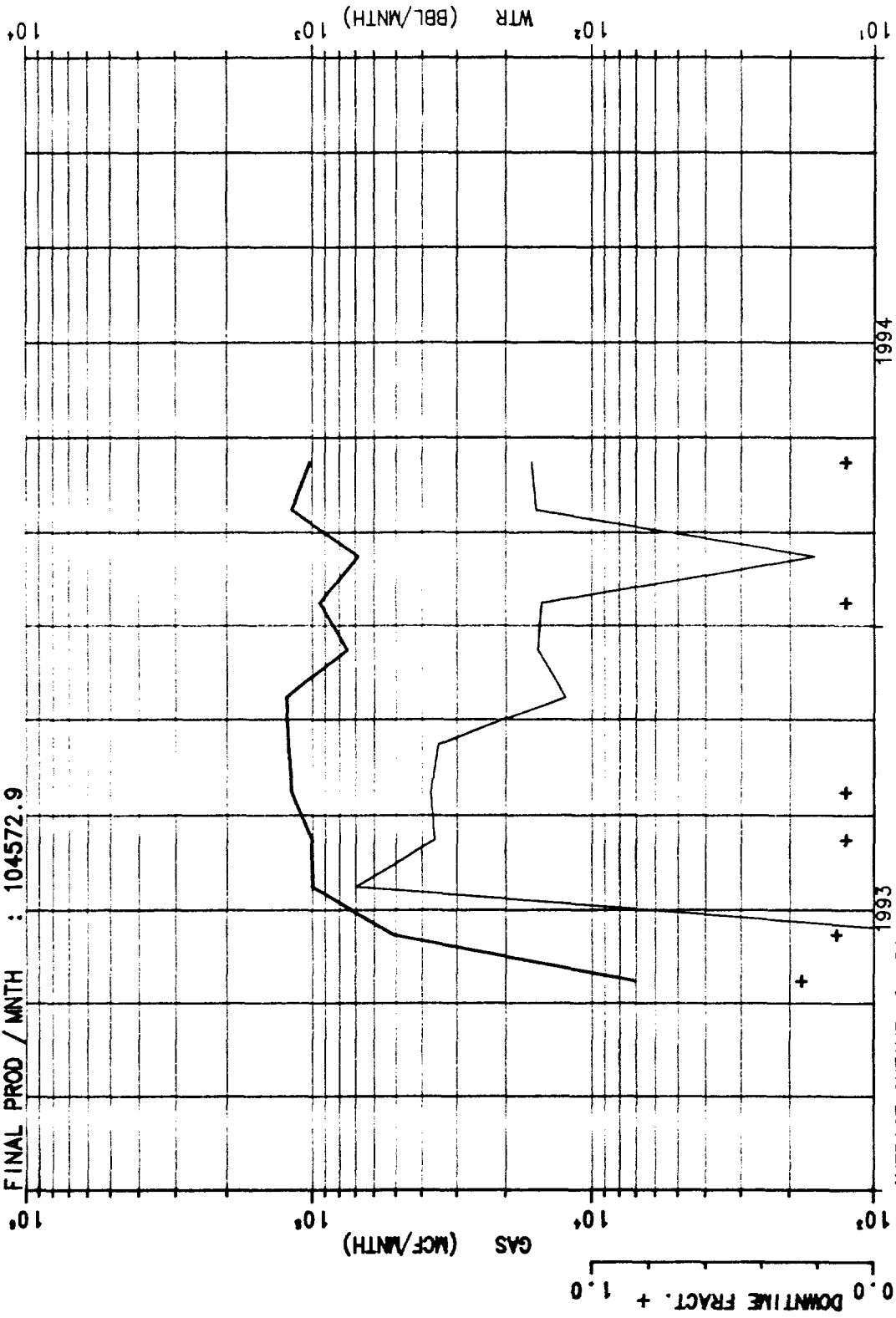
CUM PRODUCTN-MUNITS : 1073.

FINAL PROD / MNTH : 104572.9

Current Cum

1073. MMCF GAS

2565. BBL WTR



AVERAGE ONTIME = 0.954

LEASE- 650077: SAN JUAN 29-6 UNIT #226
RESVR- 001: BASIN
WELL - 000226 PHS WELL PRODUCTION

F892301
ZONE-650077001000226 F892301
API-30039246680000

CASE : CD 29-6 #226 ** ECONOMICS CASE SUMMARY **

DESCRIPTION: COMMERCIALITY DETERMINATIONS

WORKING INT : 100.000%

CASE REVENUE INT : 79.558% OIL REV INT : 79.558%

GAS REV INT : 79.558%

CASE LIFE -FIRST MO-YR : 1-1992

PROD MO-YR : 5-1993

LAST YEAR : 2007

MEASURES OF MERIT

AARR (%) : 201.6
BREAKEVEN POINT (YRS.) : 1.4
PAYOUT (YRS.) : .3
NTER : 34.3
ECONOMIC LIFE (YRS.) : 14.7

RESERVES SUMMARY

OIL-GROSS MBBLS :
NET MBBLS :
NET REVENUE(M\$) :
BBL/DAY TO PAYOUT:
GAS GROSS MMCF : 9996.1
NET MMCF : 7952.6
NET REVENUE(M\$) : 11610.9
MCF/DAY TO PAYOUT: 2864.7

NET CASH FLOW SUMMARY(M\$)

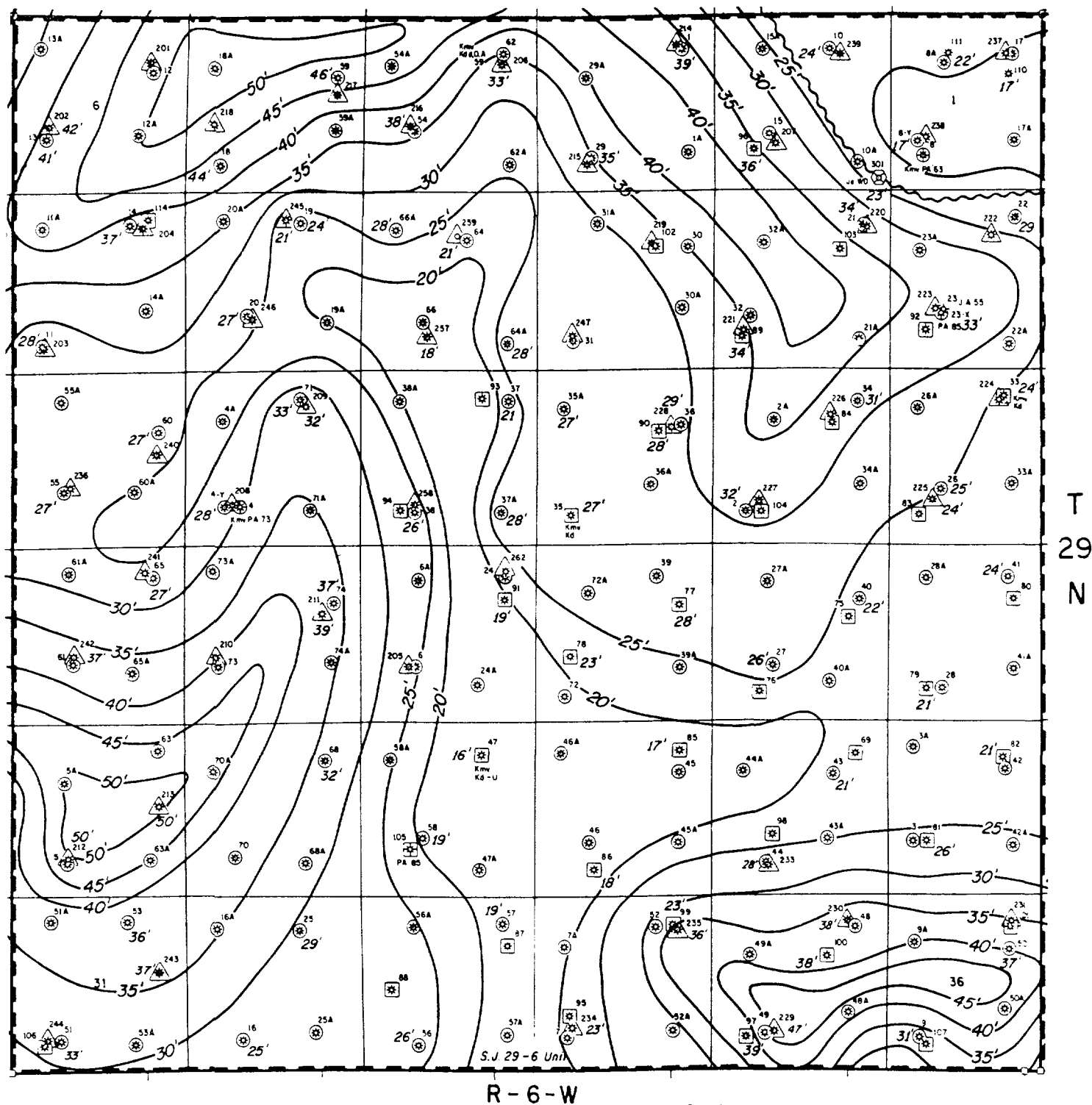
CAPITAL OUTLAY : 325.7
TOTAL REVENUE : 11610.9
TOTAL EXPENSES : 435.0
IBRT : 11175.9
CURRENT INCOME TAX :
SALVAGE :
CASH RETURNED : 11175.9
CASH FLOW : 10850.1
NET PRESENT VALUE (M\$) P.I.
@ 13.0 %: 5631.4 18.29
@ 10.0 %: 6431.4 20.74
@ 8.0 %: 7064.6 22.69
@ 6.0 %: 7797.4 24.94

PRESS "ENTER" TO CONTINUE...

GOWEE_CASE_SUM











SWD AND GATHERING SYSTEM COST

The SWD facility and gathering system costs were allocated equally back to each well in the unit. The allocated costs were then charged against the well by including them in the operating cost in the fifteen year forecast.



R - 6 - W

PRODUCING INTERVAL

Kfm	 FARMINGTON	Kfm	
Kl	 KIRTLAND	Kl	
	 FRUITLAND	Kf	
	 PICTURED CLIFFS	Kdc	
	 CHACRA	Kc	
	 LA VENTANA	Klv	
	 MESAVEGE	Kmv	
	 GALLUP	Kgl	
	 DAKOTA	Kd	
	 ALL PRODUCTION BELOW CRETACEOUS	Jc Kp Pdc M	- ENTRADA - PARADOX - BARKER CREEK - LEADVILLE
		Kt Kgn	TOCITO GREENHORN
		Kch Km Kgl	CLIFFHOUSE MENESEE POINT LOOKOUT



PHILLIPS PETROLEUM COMPANY
FARMINGTON AREA

S. J. 29-6 UNIT

Rio Arriba Co, N.M

AGGREGATE NET COAL ISOLITH
OF THE FRUITLAND COAL

$$C1: 5'$$

5-1-92

PHILLIPS PETROLEUM COMPANY
Commerciality Determination

San Juan 29-6 Unit #227
Fruitland Coal
W/2 Section 14-T29N-R6W
Rio Arriba County, New Mexico

Date of First Delivery: 08/27/93

Date of Commerciality Submittal:

Well Cost Data

Total Well Costs:	335,181		
Production Taxes & Royalty:	20.442175%	BLM	12.50
		Severance	3.750000
		School	4.000000
		Conservation	0.180000
		Ad Valorem	0.012175

Average Product Pricing

1994 1.46/ MCF

Estimated Gross Annual Production and Operating Expenses

<u>Year</u>	<u>Gas (MMCF)</u>	<u>* Operating Expenses (\$)</u>
1993 (5 mo)	12 (Actual)	4,446 (Actual)
1994	15	
1995	15	
1996	15	
1997	15	
1998	15	
1999	15	
2000	15	
2001	15	
2002	15	
2003	15	
2004	15	
2005	15	
2006	15	
2007	15	

* Operating Expenses were not escalated for inflation.

SAN JUAN 29-6 UNIT #227

COMMERCIALITY DETERMINATION

The subject well was spudded on 06/25/90 in the west half of Section 14, T29N-R6W. After a total depth of 3596' was reached on 01/22/92, the well was initially completed open hole by means of cavitation. After cavitation, the well did not respond as desired. On 01/26/92, the gas pitoted at 140 MCF/D, while the water tested slightly.

Since the coal appeared not to be cleated, a fracture stimulation was designed for the subject well. Initially, a 5-1/2" linear was set at 3595' with the top of the linear at 3330'. Secondly, the Fruitland Coal formation was perforated with 4 SPF from 3508' to 3594' for a total of 216 shots. Then, the well was fracture stimulated on 12/18/92 with 32,770 gals of 30 ppg gelled water, 206,800 lbs of 16/30 Brady sand, and 1,479,192 SCF of nitrogen at 70% quality. The fracture treatment produced very limited results on the extremely tight Fruitland Coal formation. In fact, the subject well only tested/pitoted 295 MCF/D with 2 BWPH following the fracture treatment. Currently, the well is producing only 61 MCF/D with a trace of water from the perforated Fruitland Coal interval 3508' to 3594'.

Taking into account the subject well's past history and current rates, the well will obviously not be deemed commercial in the 29-6 Unit Participating Area. As a result, the economic evaluation and operating expenses were not prepared for this commerciality determination report.

MEP81-01

PARPI - WELLZONE PRODUCTION BROWSE

Date: 6/16/94

YEARLY TOTALS

User: #AM3

Wellzone F8924 01 Yr: 1993 Mth: — Property: 650078 SAN JUAN 29-6 UNIT #
 Screen: 1 (1-Prod, 2-Inj, 3-Both) Well No: 000227
 Type: T (T-Total, D-Daily Avg) Field: BASIN
 Period: Y (M-Monthly, Y-Yearly, C-Cumm) Reserv: 20001 FRUITLAND COAL

ADJ	PRODUCED			DAYS		WELL	
FLG DATE	OIL (BBL)	GAS (MCF)	WATER (BBL)	PROD	OP	ST	CL TY
1993	0.00	11,506	0	123.00	123		
1994	0.00	7,760	50	97.00	97		

NO MORE DATA AVAILABLE

PA1=ICE PA2=Exit PF1=Help

PF3=End

PF11=GRAPH

Transfer-> _____

PF7=Backward

PF8=Forward

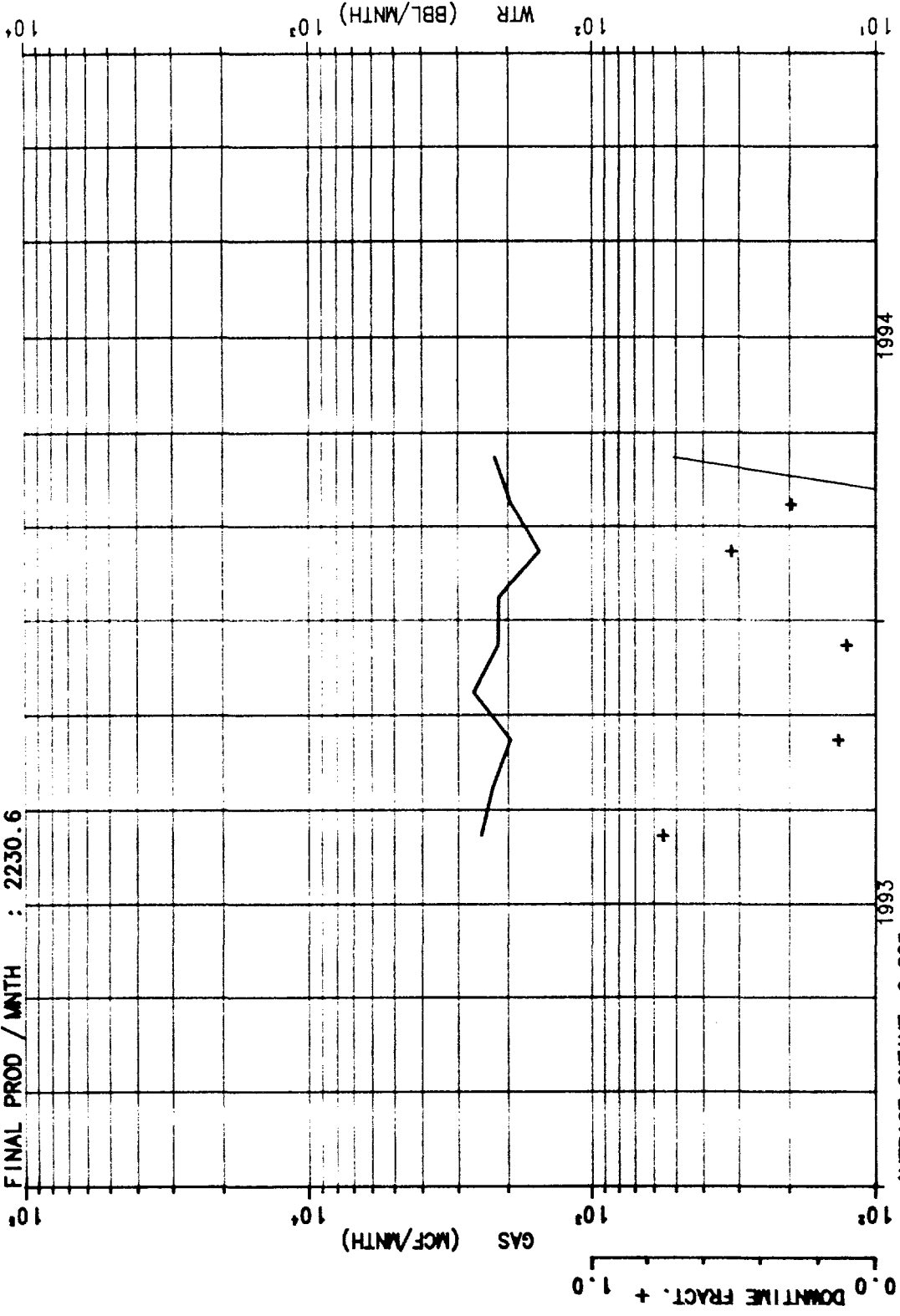
PF10=GRAND MENU

PF12=LOG GRAPH

8/93-4/94

INITIAL PROD / MNTN : 9461.9
REMAINING LIFE : 0.75
CUM PRODUCTION : 19266.
FINAL PROD / MNTN : 2230.6

Current Cum
19266. MCF GAS
50. BBL WTR



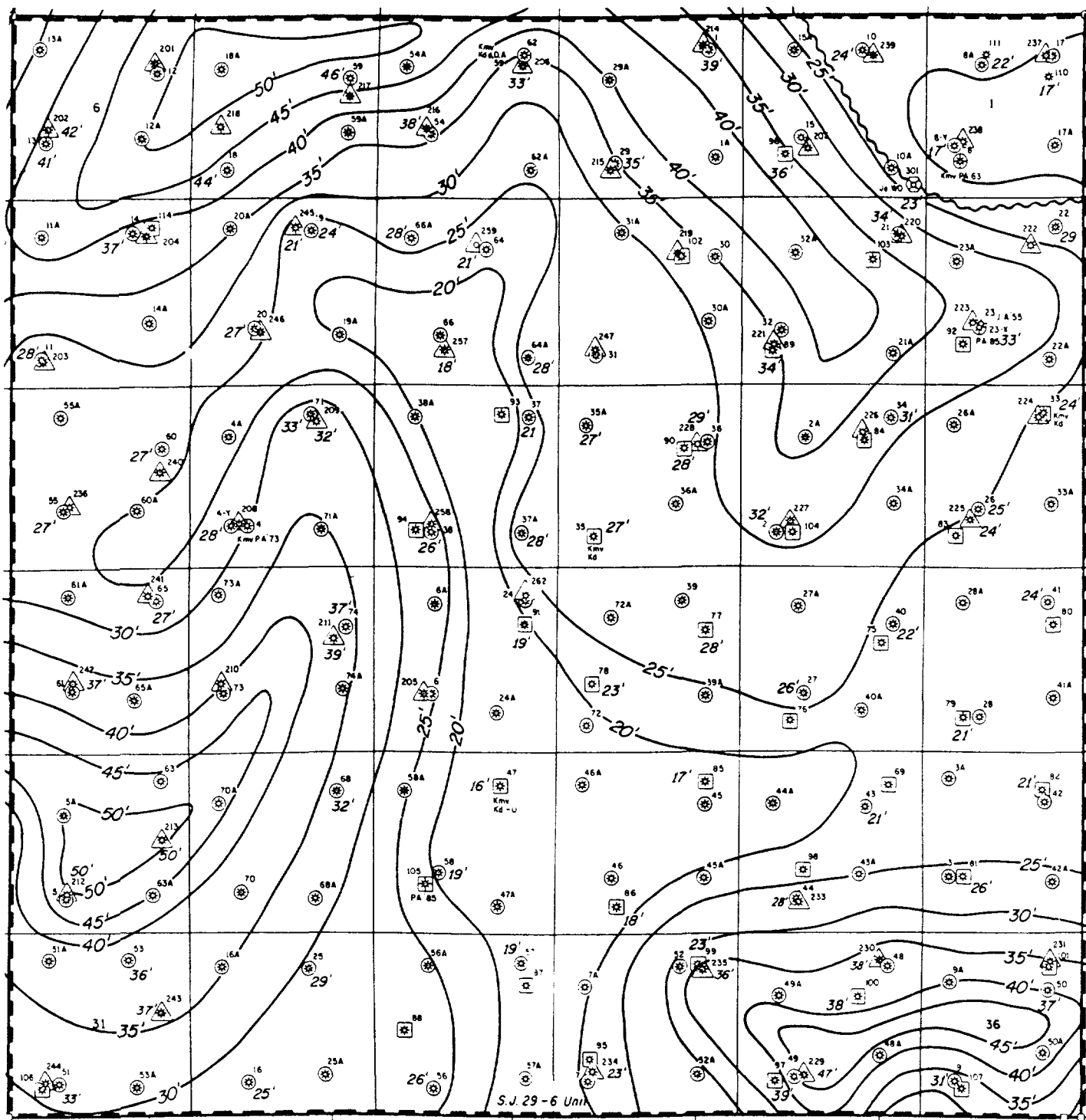
AVERAGE ONTIME = 0.805

LEASE- 650078 : SAN JUAN 29-6 UNIT #227
RESVR- 001 : BASIN FRUITLAND COAL
WELL - 000227 PHS WELL PRODUCTION

F892401
ZONE-650078001000227 F892401
API-30039246690000

SWD AND GATHERING SYSTEM COST

The SWD facility and gathering system costs were allocated equally back to each well in the unit. The allocated costs were then charged against the well by including them in the operating cost in the fifteen year forecast.



T
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R - 6 - W

PRODUCING INTERVAL

Kfm	FARMINGTON	Kfm
Kk	KIRTLAND	Kk
Kf	FRUITLAND	Kf
Kpc	PICTURED CLIFFS	Kpc
Kc	CHACRA	Kc
Kiv	LA VENTANA	Kiv
Kmv	MESAVERDE	Kmv
Kgl	GALLUP	Kgl
Kd	DAKOTA	Kd
Kch	CLIFFHOUSE	Kch
Km	MENEFEE	Km
Kpl	POINT LOOKOUT	Kpl
K1	TOCITO	K1
Kph	GREENHORN	Kph
Je	ENTRADA	Je
Rp	PARADOX	Rp
Pdc	BARKER CREEK	Pdc
MI	LEADVILLE	MI



PHILLIPS PETROLEUM COMPANY
FARMINGTON AREA

S. J. 29-6 UNIT

Rio Arriba Co., N.M.

AGGREGATE NET COAL ISOLITH
OF THE FRUITLAND COAL

C1:5'

5-1-92

PHILLIPS PETROLEUM COMPANY
Commerciality Determination

San Juan 29-6 Unit #259
Fruitland Coal
E/2 Section 09-T29N-R6W
Rio Arriba County, New Mexico

Date of First Delivery: 07/02/93

Date of Commerciality Submittal: _____

Well Cost Data

Total Well Costs:	267,914		
Production Taxes & Royalty:	20.442175%	BLM	12.50
		Severance	3.750000
		School	4.000000
		Conservation	0.180000
		Ad Valorem	0.012175

Average Product Pricing

1994 1.46/ MCF

Estimated Gross Annual Production and Operating Expenses

<u>Year</u>	<u>Gas (MMCF)</u>	<u>* Operating Expenses (\$)</u>
1993 (6 mo)	209 (Actual)	6,170 (Actual)
1994	517	21,888
1995	492	21,888
1996	368	21,888
1997	285	21,888
1998	227	21,888
1999	185	21,888
2000	154	21,888
2001	130	21,888
2002	112	21,888
2003	97	21,888
2004	84	21,888
2005	74	21,888
2006	66	21,888
2007	59	21,888

* Operating Expenses were not escalated for inflation.

MEP81-01

PARPI - WELLZONE PRODUCTION BROWSE
YEARLY TOTALS

Date: 6/20/94

User: #AM3

Wellzone F8A11 01 Yr: 1993 Mth: 07 Property: 650188 SAN JUAN 29-6 UNIT #
 Screen: 1 (1-Prod, 2-Inj, 3-Both) Well No: 000259
 Type: T (T-Total, D-Daily Avg) Field: BASIN
 Period: Y (M-Monthly, Y-Yearly, C-Cumm) Reserv: 20001 FRUITLAND COAL

ADJ		PRODUCED			DAYS		WELL			
FLG	DATE	OIL (BBL)	GAS (MCF)	WATER (BBL)	PROD	OP	ST	CL	TY	
	1993	0.00	209,161	0	183.00	183				
	1994	0.00	142,902	327	120.00	120				

NO MORE DATA AVAILABLE

PA1=ICE PA2=Exit PF1=Help

PF3=End

PF11=GRAPH

Transfer-> _____

PF7=Backward

PF8=Forward

PF10=GRAND MENU

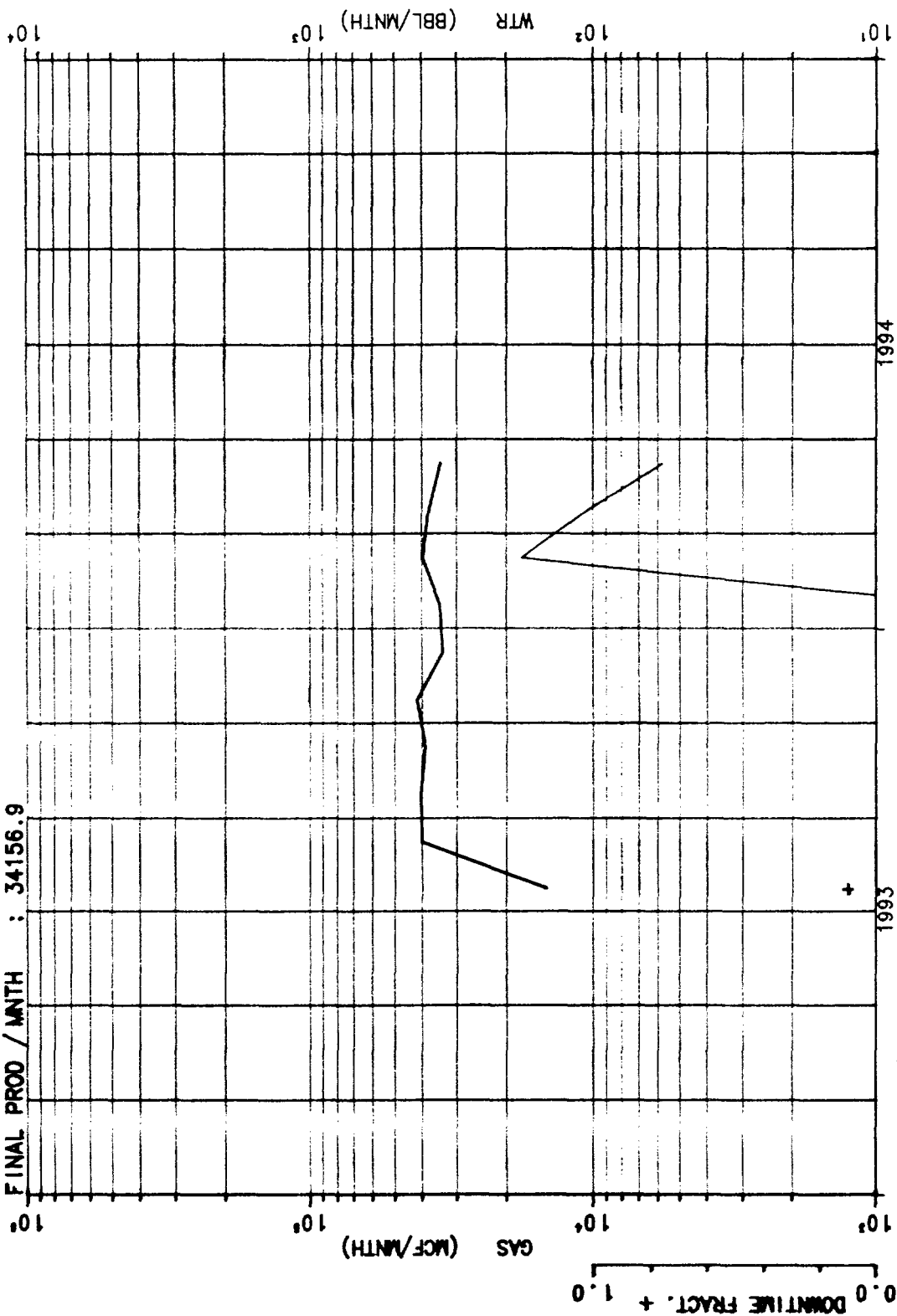
PF12=LOG GRAPH

7/93-4/94

INITIAL PROD / MNTH : 15233.7
REMAINING LIFE : 0.83

CUM PRODUCTION : 352063.
FINAL PROD / MNTH : 34156.9

Current Curve
352063. MCF GAS
327. BBL WTR



AVERAGE ONTIME = 0.997

LEASE- 650188 : SAN JUAN 29-6 UNIT #259
RESVR- 001 : BASIN
WELL - 000259 PHS WELL PRODUCTION

F8A1101
ZONE-650188001000259 F8A1101
API-30039247630000

CASE : CD 29-6 #259 ** ECONOMICS CASE SUMMARY **
 DESCRIPTION: COMMERCIALITY DETERMINATIONS
 CASE REVENUE INT : 79.558% OIL REV INT : 79.558% GAS REV INT : 79.558%
 CASE LIFE -FIRST MO-YR : 3-1992 PROD MO-YR : 7-1993 LAST YEAR : 2007

MEASURES OF MERIT

AARR (%) : 99.7
 BREAKEVEN POINT (YRS.) : 2.0
 PAYOUT (YRS.) : .7
 NTER : 11.8
 ECONOMIC LIFE (YRS.) : 14.5
 RESERVES SUMMARY
 OIL-GROSS MBBLS :
 NET MBBLS :
 NET REVENUE(M\$) :
 BBL/DAY TO PAYOUT:
 GAS GROSS MMCF : 3059.2
 NET MMCF : 2433.8
 NET REVENUE(M\$) : 3553.3
 MCF/DAY TO PAYOUT: 1217.9

NET CASH FLOW SUMMARY(M\$)

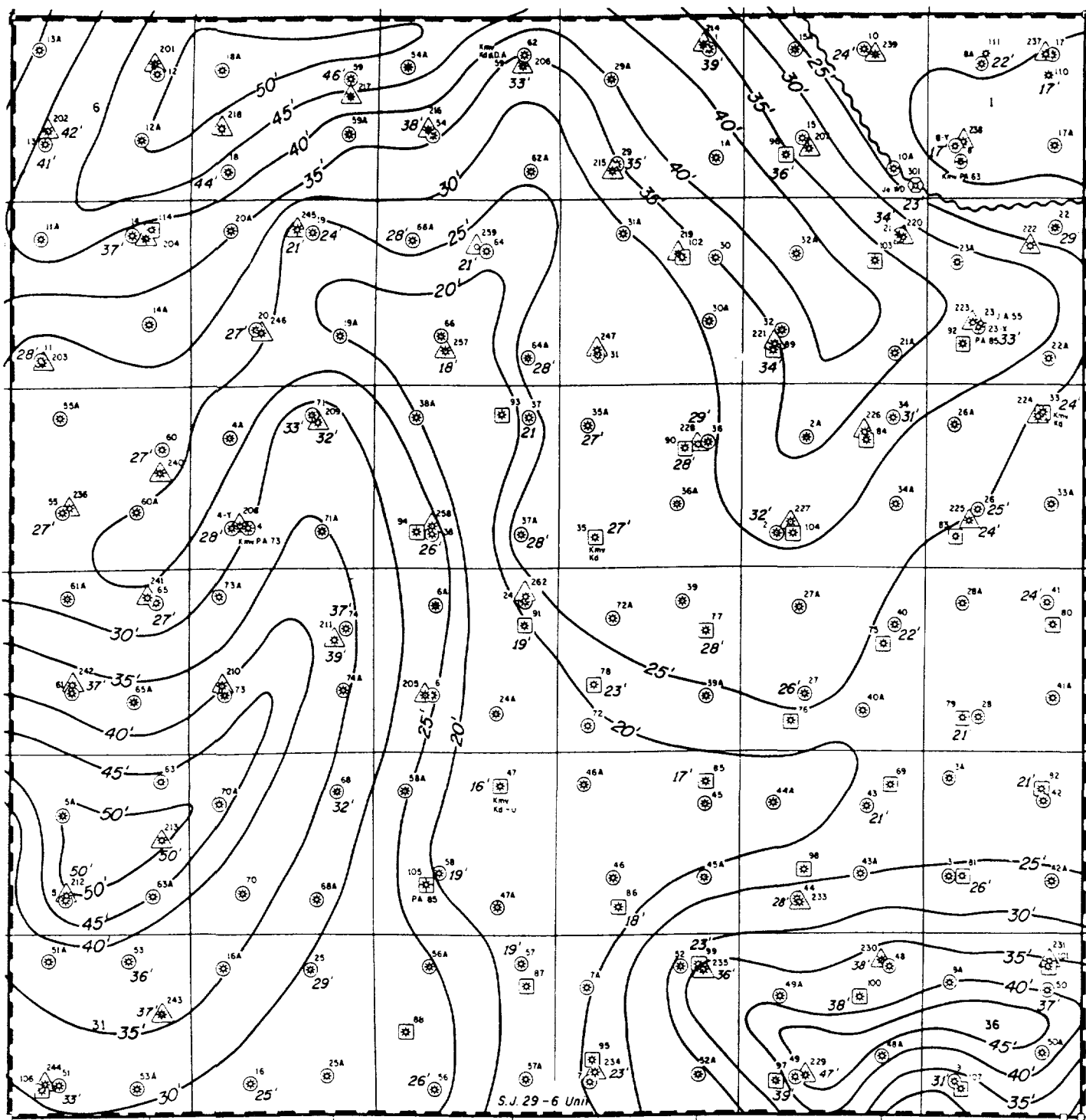
CAPITAL OUTLAY : 267.9
 TOTAL REVENUE : 3553.3
 TOTAL EXPENSES : 312.6
 IBRT : 3240.7
 CURRENT INCOME TAX : 73.4
 SALVAGE :
 CASH RETURNED : 3167.3
 CASH FLOW : 2899.4
 NET PRESENT VALUE (M\$) P.I.
 @ 13.0 %: 1459.0 6.45
 @ 10.0 %: 1683.0 7.28
 @ 8.0 %: 1859.3 7.94
 @ 6.0 %: 2062.5 8.70

PRESS "ENTER" TO CONTINUE...

GOWEE_CASE_SUM






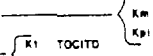



SWD AND GATHERING SYSTEM COST

The SWD facility and gathering system costs were allocated equally back to each well in the unit. The allocated costs were then charged against the well by including them in the operating cost in the fifteen year forecast.



R - 6 - W

PRODUCING INTERVAL

Kfm	FARMINGTON	Kfm	
Kk	KIRTLAND	Kk	
	FRUITLAND	Kf	
	PICTURED CLIFFS	Kdc	
	CHACRA	Kc	
	LA VENTANA	Kiv	
	MESAVERDE	Kmv	
	GALLUP	Kgi	
	DAKOTA	Kd	
	ALL PRODUCTION BELOW CRETACEOUS	Jc - ENTRADA Kp - PARADOX Kbc - BARKER CREEK M - LEADVILLE	



PHILLIPS PETROLEUM COMPANY
FARMINGTON AREA

S. J. 29-6 UNIT

Rio Arriba Co, NM

AGGREGATE NET COAL ISOLITH
OF THE FRUITLAND COAL

$$C1 = 5'$$

5-1-92

PHILLIPS PETROLEUM COMPANY
Commerciality Determination

San Juan 29-6 Unit #263
Fruitland Coal
W/2 Section 22-T29N-R6W
Rio Arriba County, New Mexico

Date of First Delivery: 12/21/93

Date of Commerciality Submittal: _____

Well Cost Data

Total Well Costs:	359,865		
Production Taxes & Royalty:	20.442175%	BLM	12.50
		Severance	3.750000
		School	4.000000
		Conservation	0.180000
		Ad Valorem	0.012175

Average Product Pricing

1994 1.46/ MCF

Estimated Gross Annual Production and Operating Expenses

<u>Year</u>	<u>Gas (MMCF)</u>	<u>* Operating Expenses (\$)</u>
1994	50	20,273
1995	42	20,273
1996	40	20,273
1997	38	20,273
1998	36	20,273
1999	34	20,273
2000	32	20,273
2001	31	20,273
2002	29	20,273
2003	28	20,273
2004	26	20,273
2005	25	20,273
2006	24	20,273
2007	23	20,273
2008	22	20,273

* Operating Expenses were not escalated for inflation.

San Juan 29-6 #263
Commerciality Determination

The subject well was spudded on September 7, 1992, drilled to a TD of 3240' on September 7, 1992 and completed on September 25, 1992. The Pitot Test for this well was 110 MCF/D. Based upon these results the well was shut in, pending engineering evaluation. In October 1993 the well was perforated, acidized and fractured stimulated. The well was flow tested with a $\frac{3}{4}$ " choke with a gas rate of 200 MCF/D. On December 21, 1993 the well was placed in production, averaging 183 MCF/D thus far in 1994.

Results of the fracture stimulation were insignificant, the well has performed at a level that results in it not being deemed commercial. Economics Case Summary enclosed herewith.

MEP81-01

PARPI - WELLZONE PRODUCTION BROWSE
YEARLY TOTALS

Date: 6/21/94

User: #AM3

Wellzone F8B19 01 Yr: 1993 Mth: 01 Property: 650354 SAN JUAN 29-6 UNIT #
 Screen: 1 (1-Prod, 2-Inj, 3-Both) Well No: 000263
 Type: T (T-Total, D-Daily Avg) Field: BASIN
 Period: Y (M-Monthly, Y-Yearly, C-Cumm) Reserv: 20001 FRUITLAND COAL

ADJ	PRODUCED			DAYS		WELL	
FLG DATE	OIL (BBL)	GAS (MCF)	WATER (BBL)	PROD	OP	ST	CL TY
1993	0.00	1,043	0	31.00	31		
1994	0.00	19,786	0	108.00	108		

NO MORE DATA AVAILABLE

PA1=ICE PA2=Exit PF1=Help PF3=End PF11=GRAPH
 Transfer-> PF7=Backward PF8=Forward PF10=GRAND MENU PF12=LOG GRAPH

12/93-4/94

Current Cum
20829. MCF GAS

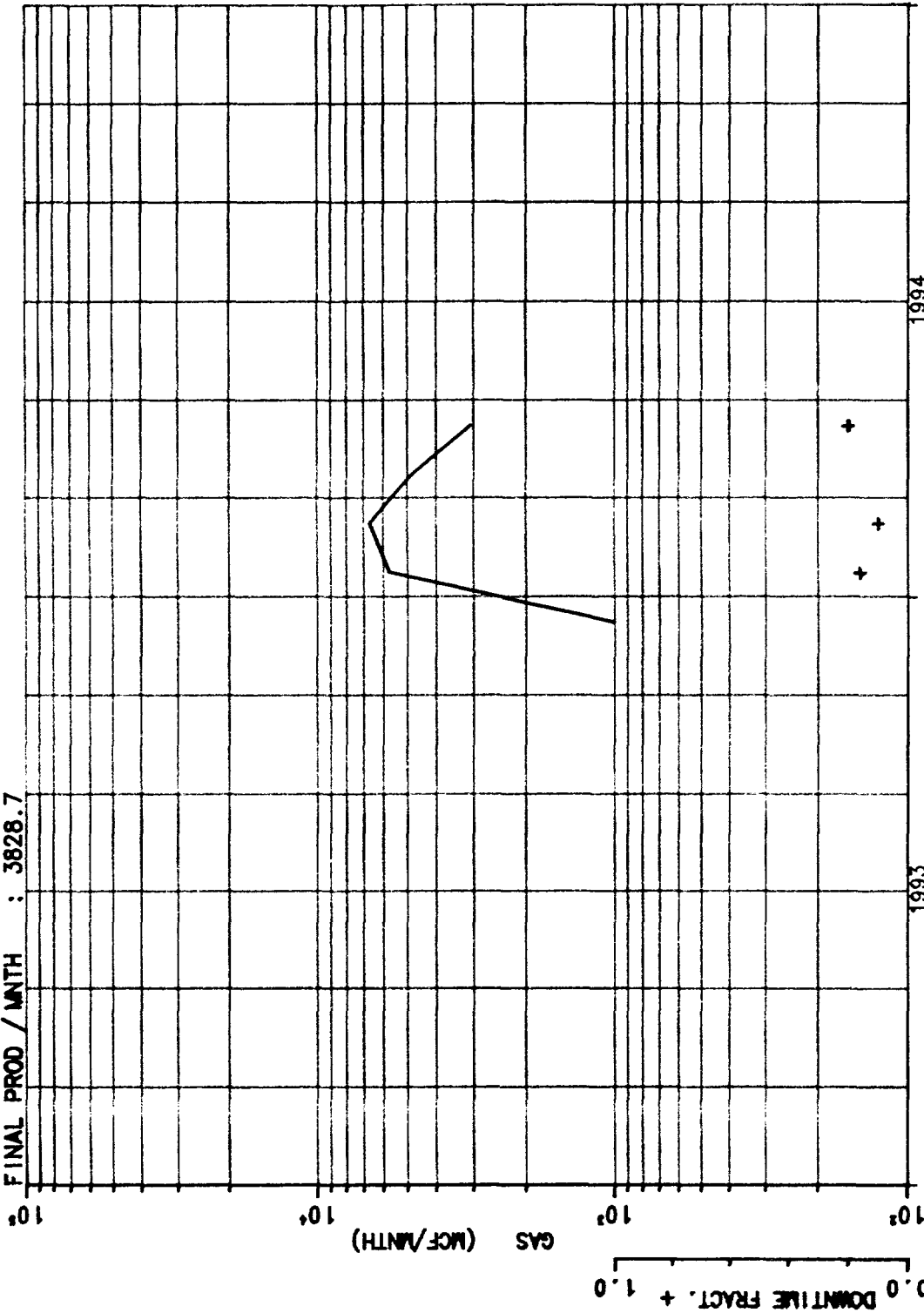
INITIAL PROD / MNTH : 1023.4

REMAINING LIFE : 0.42

0.00

CUM PRODUCTION : 20829.

FINAL PROD / MNTH : 3828.7



AVERAGE ONTIME = 0.920

LEASE- 650354 : SAN JUAN 29-6 UNIT #263

RESVR- 001 : BASIN

WELL - 000263 PHS WELL PRODUCTION

FRUITLAND COAL

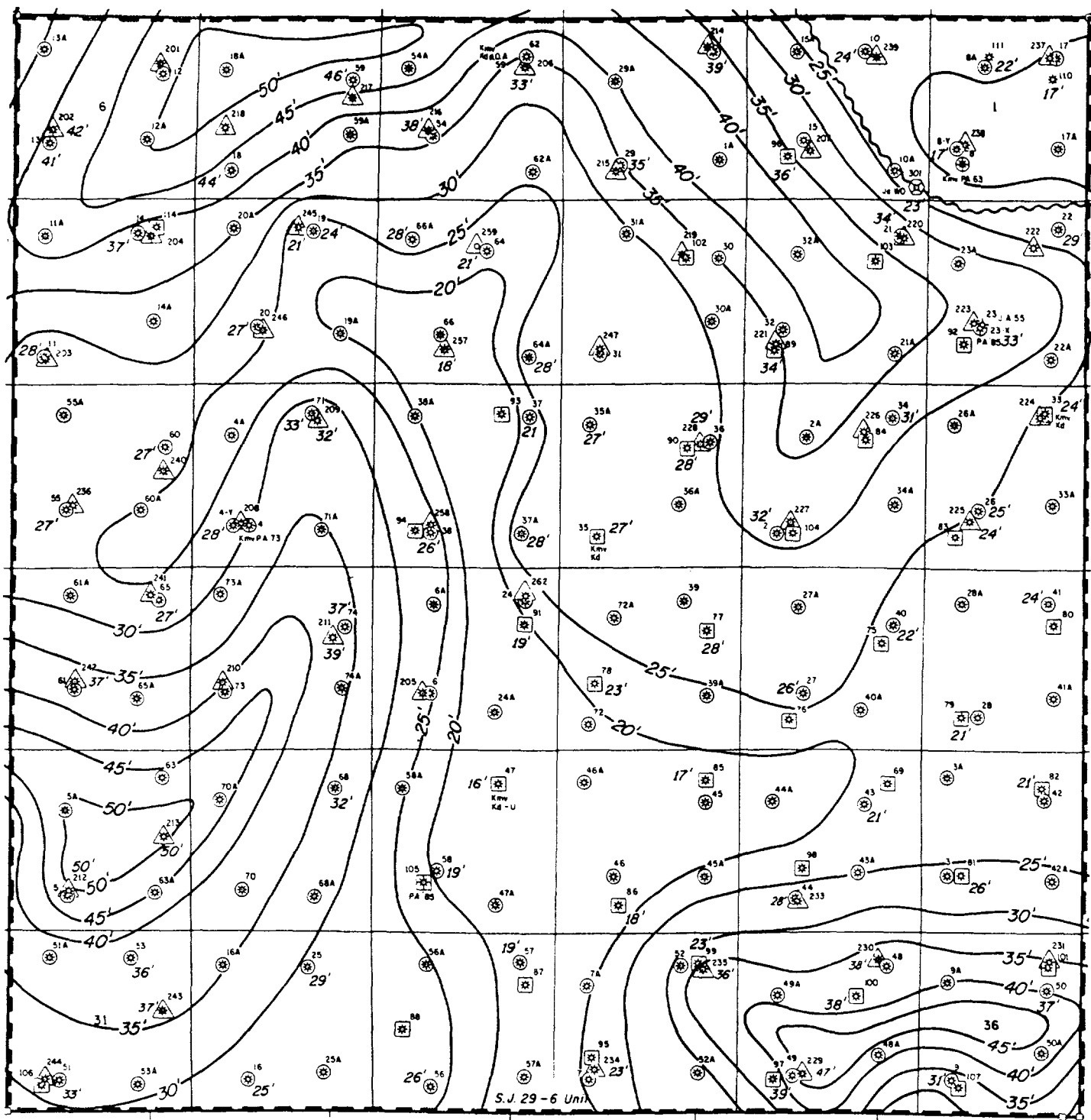
F8B1901
ZONE-650354001000263 F8B1901
API-30039251880000

CASE : CD 29-6 #263 ** ECONOMICS CASE SUMMARY **
 DESCRIPTION: COMMERCIALITY DETERMINATIONS WORKING INT : 100.000%
 CASE REVENUE INT : 79.558% OIL REV INT : 79.558% GAS REV INT : 79.558%
 CASE LIFE -FIRST MO-YR : 9-1992 PROD MO-YR : 1-1994 LAST YEAR : 2008

MEASURES OF MERIT		NET CASH FLOW SUMMARY(M\$)	
AARR (%)	: -4.9	CAPITAL OUTLAY	: 359.9
BREAKEVEN POINT (YRS.)	:	TOTAL REVENUE	: 557.5
PAYOUT (YRS.)	:	TOTAL EXPENSES	: 304.1
NTER	: .7	IBRT	: 253.4
ECONOMIC LIFE (YRS.)	: 15.0	CURRENT INCOME TAX	:
RESERVES SUMMARY		SALVAGE	:
OIL-GROSS MBBLS	:	CASH RETURNED	: 253.4
NET MBBLS	:	CASH FLOW	: -106.4
NET REVENUE(M\$)	:	NET PRESENT VALUE (M\$)	P.I.
BBL/DAY TO PAYOUT:		@ 13.0 %:	-234.5 .35
GAS_GROSS MMCF	: 480.0	@ 10.0 %:	-215.8 .40
NET MMCF	: 381.9	@ 8.0 %:	-200.7 .44
NET REVENUE(M\$)	: 557.5	@ 6.0 %:	-183.0 .49
MCF/DAY TO PAYOUT:			
PRESS "ENTER" TO CONTINUE...		GOWEE_CASE_SUM	

SWD AND GATHERING SYSTEM COST

The SWD facility and gathering system costs were allocated equally back to each well in the unit. The allocated costs were then charged against the well by including them in the operating cost in the fifteen year forecast.



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R - 6 - W

PRODUCING INTERVAL

Kfm	FARMINGTON	Kfm
KL	KIRTLAND	KL
△	FRUITLAND	KF
☆	PICTURED CLIFFS	Kbc
⊙	CHACRA	Kc
⊙	LA VENTANA	Klv
⊙	MESAVERDE	Kmv
⊙	GALLUP	Kgl
⊙	DAKOTA	Kd
⊙	ALL PRODUCTION BELOW CRETACEOUS	

Kch CLIFFHOUSE
 Km MENEFEE
 Kp POINT LOOKOUT
 Kt TODITO
 Kgn GREENHORN



PHILLIPS PETROLEUM COMPANY
FARMINGTON AREA

S.J. 29-6 UNIT

Rio Arriba Co., N.M.

AGGREGATE NET COAL ISOLITH
OF THE FRUITLAND COAL

CI : 5'

5-1-92

PHILLIPS PETROLEUM COMPANY
Commerciality Determination

San Juan 29-6 Unit #260
Fruitland Coal
E/2 Section 16-T29N-R6W
Rio Arriba County, New Mexico

Date of First Delivery: 05/12/93

Date of Commerciality Submittal: _____

Well Cost Data

Total Well Costs:	280,375		
Production Taxes & Royalty:	20.442175%	BLM	12.50
		Severance	3.750000
		School	4.000000
		Conservation	0.180000
		Ad Valorem	0.012175

Average Product Pricing

1994 1.46/ MCF

Estimated Gross Annual Production and Operating Expenses

<u>Year</u>	<u>Gas (MMCF)</u>	<u>* Operating Expenses (\$)</u>
1993 (8 mo)	174 (Actual)	18,245 (Actual)
1994	311	40,453
1995	296	40,453
1996	221	40,453
1997	171	40,453
1998	137	40,453
1999	112	40,453
2000	93	40,453
2001	78	40,453
2002	67	40,453
2003	58	40,453
2004	51	40,453
2005	45	40,453
2006	40	40,453
2007	35	40,453

* Operating Expenses were not escalated for inflation.

MEP81-01

PARPI - WELLZONE PRODUCTION BROWSE

Date: 6/22/94

YEARLY TOTALS

User: #AM3

Wellzone F8B18 01 Yr: 1993 Mth: 01 Property: 650353 SAN JUAN 29-6 UNIT #
 Screen: 1 (1-Prod, 2-Inj, 3-Both) Well No: 000260
 Type: T (T-Total, D-Daily Avg) Field: BASIN
 Period: Y (M-Monthly, Y-Yearly, C-Cumm) Reserv: 20001 FRUITLAND COAL

ADJ	PRODUCED			DAYS		WELL		
FLG DATE	OIL (BBL)	GAS (MCF)	WATER (BBL)	PROD	OP	ST	CL	TY
1993	0.00	174,140	160	230.00	230			
1994	0.00	86,133	95	120.00	120			

NO MORE DATA AVAILABLE

PA1=ICE PA2=Exit PF1=Help PF3=End PF11=GRAPH
 Transfer-> PF7=Backward PF8=Forward PF10=GRAND MENU PF12=LOG GRAPH

5/93-4/94

INITIAL PROD / MONTH : 13131.1

REMAINING LIFE : 1.00

0.00

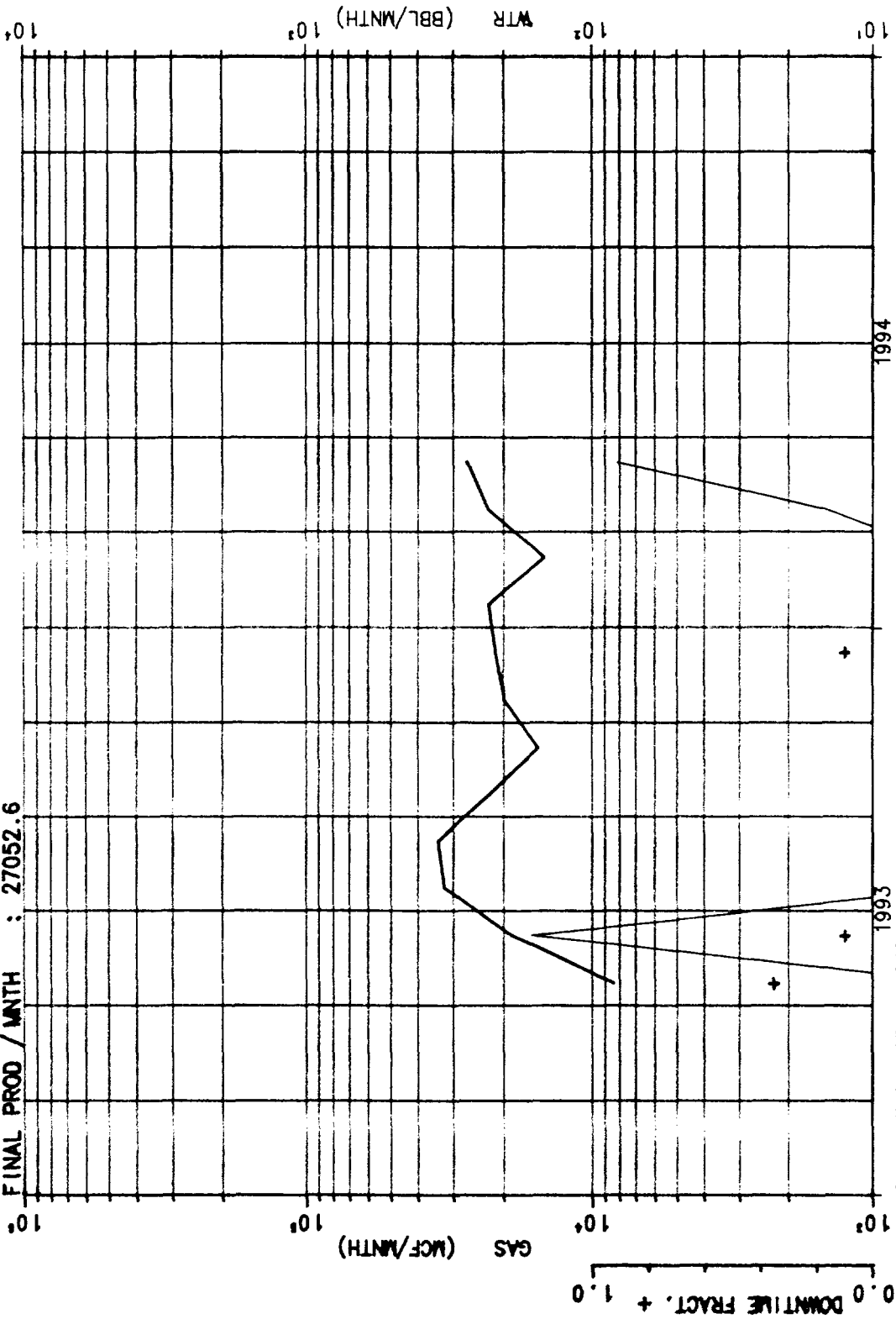
CUM PRODUCTION : 260272.

FINAL PROD / MONTH : 27052.6

Current Cum

260272. MCF GAS

255. BBL WTR



AVERAGE ONTIME = 0.960

LEASE- 650353 : SAN JUAN 29-6 UNIT #260

RESVR- 001 : BASIN

WELL - 000280 PHS WELL PRODUCTION

FRUITLAND COAL

F8B1801

ZONE-650353001000260 F8B1801

API-30039247670000

CASE : CD 29-6 #260 ** ECONOMICS CASE SUMMARY **

DESCRIPTION: COMMERCIALITY DETERMINATIONS

WORKING INT : 100.000%

CASE REVENUE INT : 79.558% OIL REV INT : 79.558%

GAS REV INT : 79.558%

CASE LIFE -FIRST MO-YR : 10-1992 PROD MO-YR : 5-1993

LAST YEAR : 2007

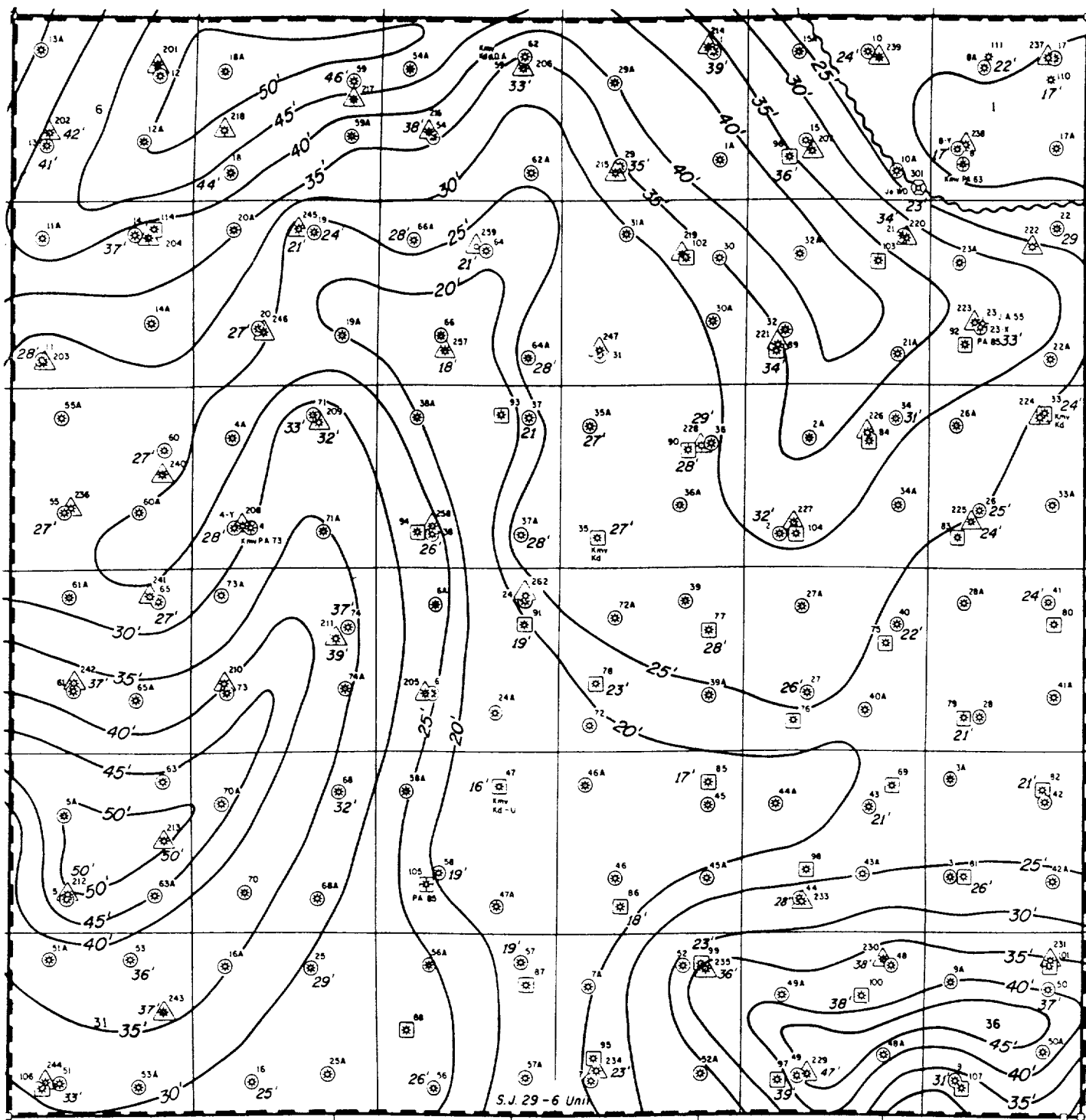
MEASURES OF MERIT		NET CASH FLOW SUMMARY (M\$)	
AARR (%)	: 86.0	CAPITAL OUTLAY	: 280.4
BREAKEVEN POINT (YRS.)	: 1.7	TOTAL REVENUE	: 2194.3
PAYOUT (YRS.)	: 1.1	TOTAL EXPENSES	: 584.6
NTER	: 5.6	IBRT	: 1609.7
ECONOMIC LIFE (YRS.)	: 14.7	CURRENT INCOME TAX	: 53.3
RESERVES SUMMARY		SALVAGE	:
OIL-GROSS MBBLs	:	CASH RETURNED	: 1556.5
NET MBBLs	:	CASH FLOW	: 1276.1
NET REVENUE (M\$)	:	NET PRESENT VALUE (M\$)	P.I.
BBL/DAY TO PAYOUT:	:	@ 13.0 %:	708.1 3.53
GAS GROSS MMCF	: 1889.1	@ 10.0 %:	803.6 3.87
NET MMCF	: 1503.0	@ 8.0 %:	876.6 4.13
NET REVENUE (M\$)	: 2194.3	@ 6.0 %:	958.6 4.42
MCF/DAY TO PAYOUT:	: 771.8		

PRESS "ENTER" TO CONTINUE...

GOWEE_CASE_SUM

SWD AND GATHERING SYSTEM COST

The SWD facility and gathering system costs were allocated equally back to each well in the unit. The allocated costs were then charged against the well by including them in the operating cost in the fifteen year forecast.



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R-6-W

PRODUCING INTERVAL

Kfm	FARMINGTON	Kfm
Kk	KIRTLAND	Kk
Kf	FRUITLAND	Kf
Kpc	PICTURED CLIFFS	Kpc
Kc	CHACRA	Kc
Kiv	LA VENTANA	Kiv
Kmv	MESAVERDE	Kmv
Kgl	GALLUP	Kgl
Kd	DAKOTA	Kd
Ju	ALL PRODUCTION BELOW CRETACEOUS	Ju
Ep	ENTRADA	Ep
Pp	PARADOX	Pp
Bp	BARKER CREEK	Bp
M	LEADVILLE	M



PHILLIPS PETROLEUM COMPANY
FARMINGTON AREA

S.J. 29-6 UNIT

Rio Arriba Co., N.M.

AGGREGATE NET COAL ISOLITH
OF THE FRUITLAND COAL

CI: 5'

5-1-92

PHILLIPS PETROLEUM COMPANY
Commerciality Determination

San Juan 29-6 Unit #211
 Fruitland Coal
 E/2 Section 20-T29N-R6W
 Rio Arriba County, New Mexico

Date of First Delivery: 05/19/93

Date of Commerciality Submittal: _____

Well Cost Data

Total Well Costs:	320,329		
Production Taxes & Royalty:	20.442175%	BLM	12.50
		Severance	3.750000
		School	4.000000
		Conservation	0.180000
		Ad Valorem	0.012175

Average Product Pricing

1994 1.46/ MCF

Estimated Gross Annual Production and Operating Expenses

<u>Year</u>	<u>Gas (MMCF)</u>	<u>* Operating Expenses (\$)</u>
1993 (7.5 mo)	112 (Actual)	9,407 (Actual)
1994	248	18,896
1995	236	18,896
1996	176	18,896
1997	137	18,896
1998	109	18,896
1999	89	18,896
2000	74	18,896
2001	62	18,896
2002	53	18,896
2003	46	18,896
2004	40	18,896
2005	36	18,896
2006	32	18,896
2007	28	18,896

* Operating Expenses were not escalated for inflation.

MEP81-01

PARPI - WELLZONE PRODUCTION BROWSE

Date: 6/23/94

YEARLY TOTALS

User: #AM3

Wellzone F8976 01 Yr: 1993 Mth: 01 Property: 650166 SAN JUAN 29-6 UNIT #
 Screen: 1 (1-Prod, 2-Inj, 3-Both) Well No: 000211
 Type: T (T-Total, D-Daily Avg) Field: BASIN
 Period: Y (M-Monthly, Y-Yearly, C-Cumm) Reserv: 20001 FRUITLAND COAL

ADJ	PRODUCED	DAYS	WELL					
FLG DATE	OIL (BBL)	GAS (MCF)	WATER (BBL)	PROD	OP	ST	CL	TY
1993	0.00	111,679	3,280	227.00	227			
1994	0.00	79,061	1,400	145.00	145			

NO MORE DATA AVAILABLE

PA1=ICE PA2=Exit PF1=Help PF3=End PF11=GRAPH
 Transfer-> PF7=Backward PF8=Forward PF10=GRAND MENU PF12=LOG GRAPH

5/93-5/94

INITIAL PROD / MNTH : 6081.5

REMAINING LIFE : 1.08

0.00

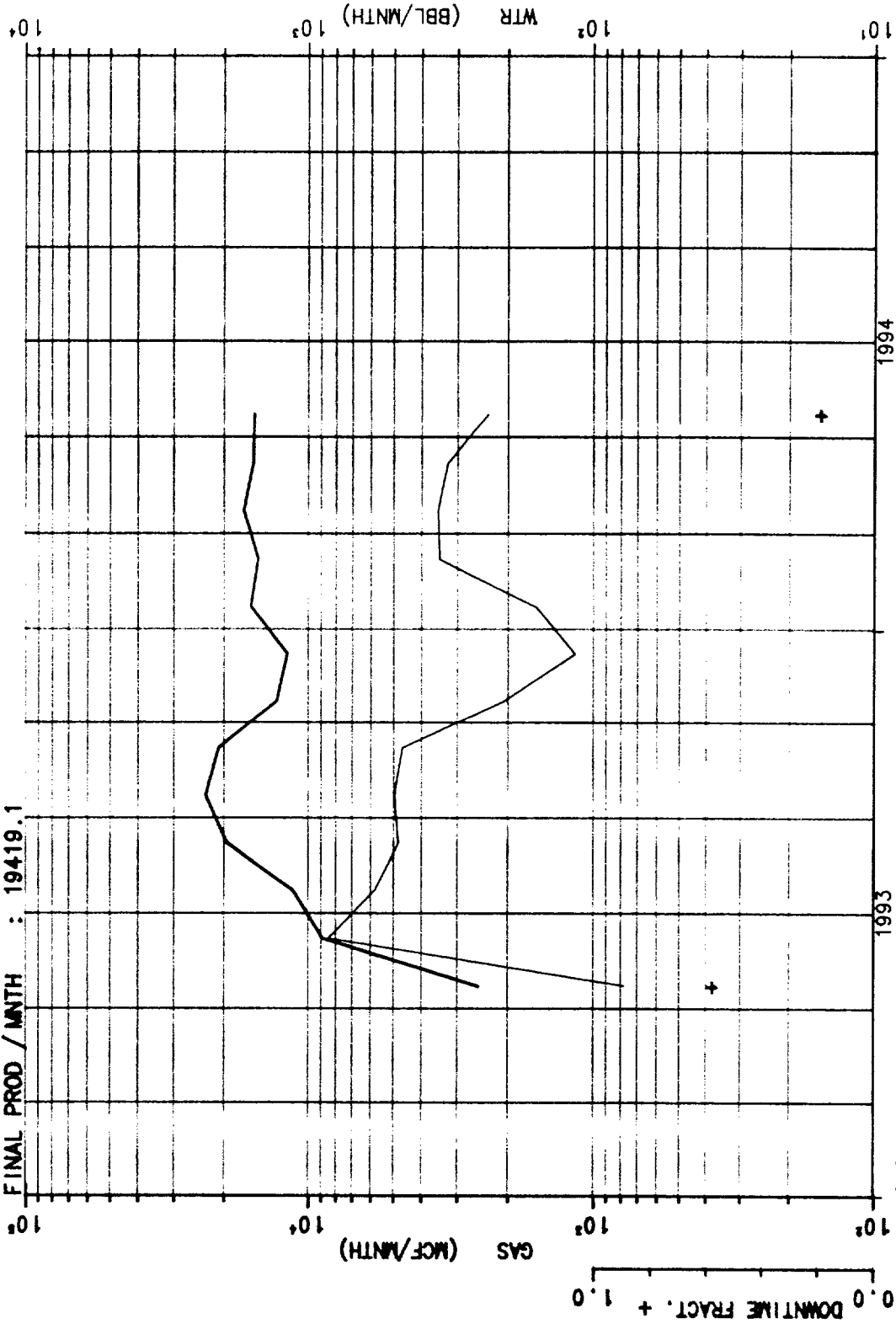
CUM PRODUCTION : 190740.

FINAL PROD / MNTH : 19419.1

Current Cums

190740. MCF GAS

4680. BBL WTR



AVERAGE ONTIME =0.940

LEASE- 650166 : SAN JUAN 29-6 UNIT #211

RESVR- 001 : BASIN

WELL - 000211 PHS WELL PRODUCTION

FRUITLAND COAL

F897601

ZONE-650166001000211 F897601

API-30039247230000

CASE : CD 29-6 #211 ** ECONOMICS CASE SUMMARY **
 DESCRIPTION: COMMERCIALITY DETERMINATIONS WORKING INT : 100.000%
 CASE REVENUE INT : 79.558% OIL REV INT : 79.558% GAS REV INT : 79.558%
 CASE LIFE -FIRST MO-YR : 10-1992 PROD MO-YR : 5-1993 LAST YEAR : 2007

MEASURES OF MERIT

AARR (%) : 58.8
 BREAK-EVEN POINT (YRS.) : 2.1
 PAYOUT (YRS.) : 1.5
 NTER : 4.4
 ECONOMIC LIFE (YRS.) : 14.7

RESERVES SUMMARY

OIL-GROSS MBBLS :
 NET MBBLS :
 NET REVENUE(M\$) :
 BBL/DAY TO PAYOUT:
 GAS GROSS MMCF : 1477.7
 NET MMCF : 1175.6
 NET REVENUE(M\$) : 1716.4
 MCF/DAY TO PAYOUT: 582.2

NET CASH FLOW SUMMARY (M\$)

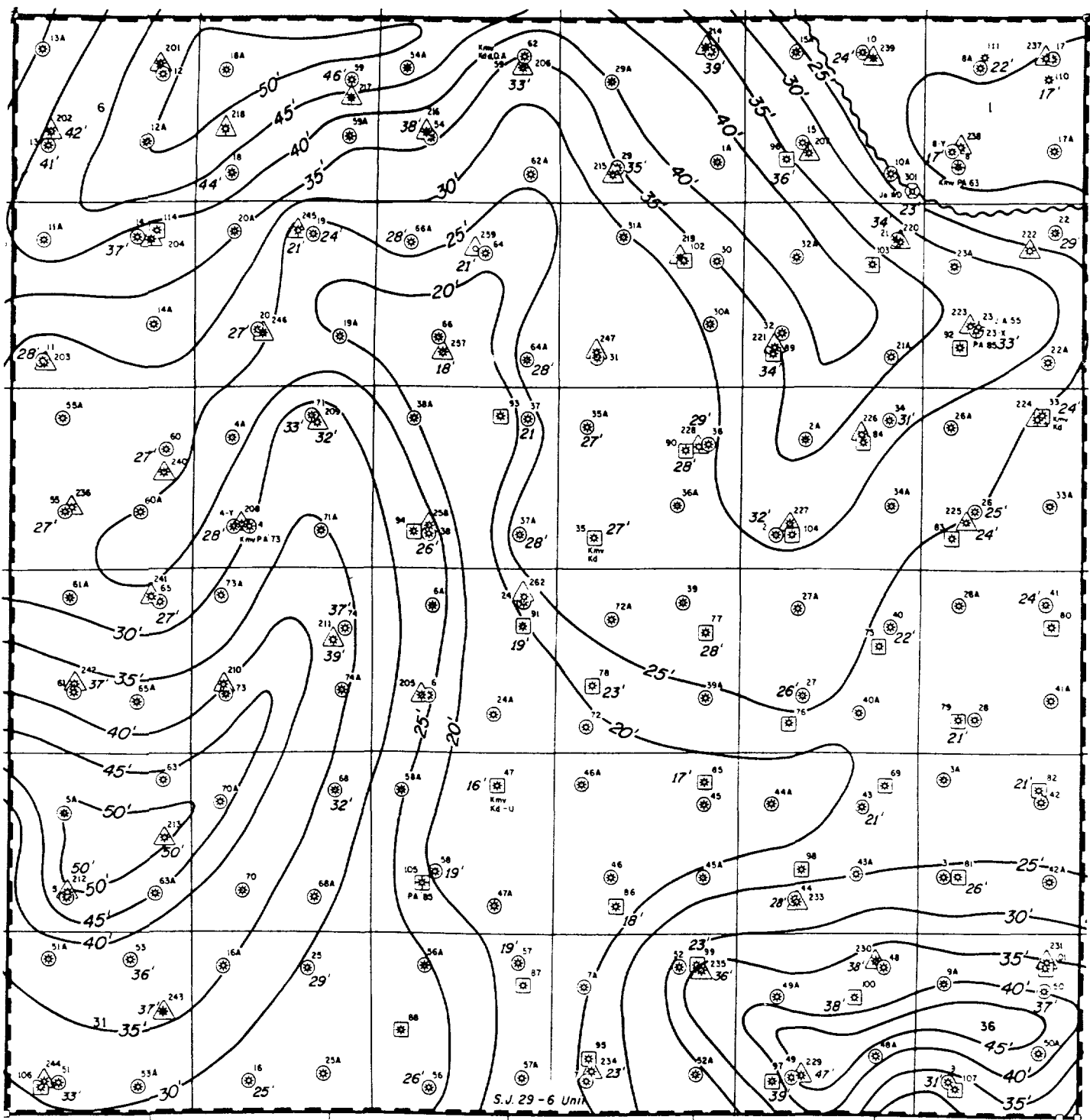
CAPITAL OUTLAY : 320.3
 TOTAL REVENUE : 1716.4
 TOTAL EXPENSES : 274.0
 IBRT : 1442.4
 CURRENT INCOME TAX : 27.6
 SALVAGE :
 CASH RETURNED : 1414.9
 CASH FLOW : 1094.5
 NET PRESENT VALUE (M\$) P.I.
 @ 13.0 %: 533.7 2.67
 @ 10.0 %: 624.2 2.95
 @ 8.0 %: 694.5 3.17
 @ 6.0 %: 774.5 3.42

PRESS "ENTER" TO CONTINUE...

GOWEE_CASE_SUM

SWD AND GATHERING SYSTEM COST

The SWD facility and gathering system costs were allocated equally back to each well in the unit. The allocated costs were then charged against the well by including them in the operating cost in the fifteen year forecast.



T
29
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R - 6 - W

PRODUCING INTERVAL

Kfm	FARMINGTON	Kfm	
Kl	KIRTLAND	Kl	
△	FRUITLAND	Kf	
☆	PICTURED CLIFFS	Kbc	
⊗	CHACRA	Kc	
⊙	LA VENTANA	Klv	
⊛	MESAVERDE	Kmv	<div> <div> Kch</div> <div> Kb</div> <div> Kp</div> </div> <div> CLIFFHOUSE MENEFEE POINT LOOKOUT </div>
⊞	GALLUP	Kgl	<div> K1</div> <div> Kp</div>

TOCITO
GREENHORN


PHILLIPS PETROLEUM COMPANY
FARMINGTON AREA

S.J. 29-6 UNIT

Rio Arriba Co., N.M.

AGGREGATE NET COAL ISOLITH
OF THE FRUITLAND COAL

C1:5'

5-1-92

PHILLIPS PETROLEUM COMPANY
Commerciality Determination

San Juan 29-6 Unit #248
Fruitland Coal
W/2 Section 15-T29N-R6W
Rio Arriba County, New Mexico

Date of First Delivery: 12/21/93

Date of Commerciality Submittal: _____

Well Cost Data

Total Well Costs:	185,026		
Production Taxes & Royalty:	20.442175%	BLM	12.50
		Severance	3.750000
		School	4.000000
		Conservation	0.180000
		Ad Valorem	0.012175

Average Product Pricing

1994 1.46/ MCF

Estimated Gross Annual Production and Operating Expenses

<u>Year</u>	<u>Gas (MMCF)</u>	<u>* Operating Expenses (\$)</u>
1994	20	7,050 (5 mo Actual)
1995	20	
1996	20	
1997	20	
1998	20	
1999	20	
2000	20	
2001	20	
2002	20	
2003	20	
2004	20	
2005	20	
2006	20	
2007	20	
2008	20	

* Operating Expenses were not escalated for inflation.

SAN JUAN 29-6 UNIT #248

COMMERCIALITY DETERMINATION

The subject well was spudded on 09/12/92 in the west half of Section 15, T29N-R6W. After a total depth of 3327' was reached on 10/18/92, the well was completed open hole by means of cavitation. After cavitation, the well did not respond as desired. On 10/20/92, the gas tested at 5 MCF/D with no water, while the build-up test indicated very low pressures. Currently, the well is producing only 5 MCF/D with a trace of water from the Fruitland Coal Formation.

Taking into account the subject well's past history and current rates, the well will obviously not be deemed commercial in the 29-6 Unit Participating Area. As a result, the economic evaluation and operating expenses were not prepared for this commerciality determination report.

MEP81-01

PARPI - WELLZONE PRODUCTION BROWSE
YEARLY TOTALS

Date: 6/28/94

User: #AM3

Wellzone F8B15 01 Yr: 1993 Mth: 01 Property: 650350 SAN JUAN 29-6 UNIT #
 Screen: 1 (1-Prod, 2-Inj, 3-Both) Well No: 000248
 Type: T (T-Total, D-Daily Avg) Field: BASIN
 Period: Y (M-Monthly, Y-Yearly, C-Cumm) Reserv: 20001 FRUITLAND COAL

ADJ	PRODUCED			DAYS		WELL	
FLG DATE	OIL (BBL)	GAS (MCF)	WATER (BBL)	PROD	OP	ST	CL TY
1993	0.00	10	0	31.00	31		
1994	0.00	479	0	49.00	49		

NO MORE DATA AVAILABLE

PA1=ICE PA2=Exit PF1=Help

PF3=End

PF11=GRAPH

Transfer-> _____

PF7=Backward

PF8=Forward

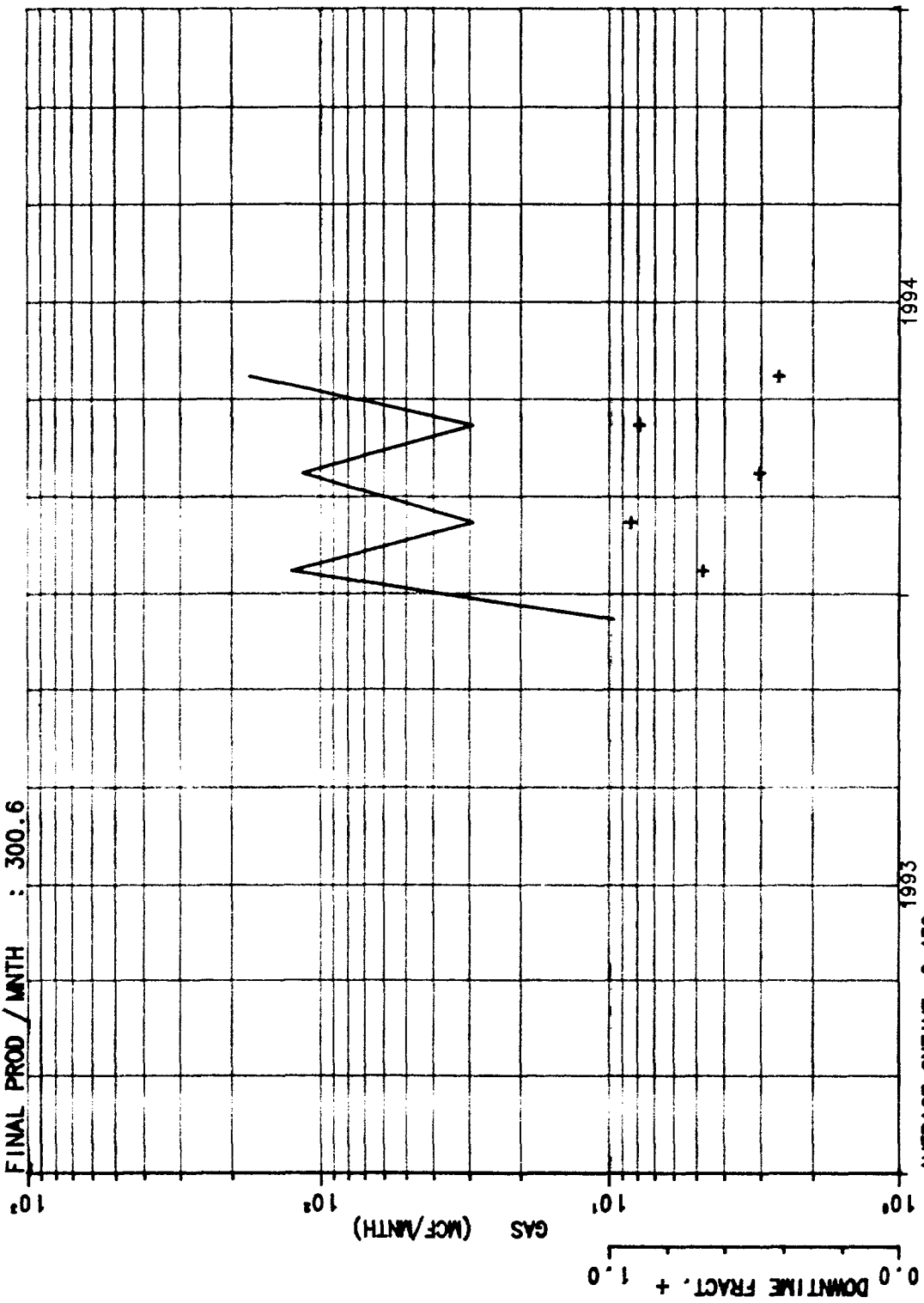
PF10=GRAND MENU

PF12=LOG GRAPH

12/93-5/94

INITIAL PROD / MNTH : 9.8
REMAINING LIFE : 0.50
CUM PRODUCTION : 489.
FINAL PROD / MNTH : 300.6

Current Cums
489. MCF GAS



AVERAGE ONTIME = 0.432

LEASE- 650350 : SAN JUAN 29-6 UNIT #248
RESVR- 001 : BASIN
WELL - 000248 PHS WELL PRODUCTION

F881501
ZONE-650350001000248 F881501
API-30039251610000

SWD AND GATHERING SYSTEM COST

The SWD facility and gathering system costs were allocated equally back to each well in the unit. The allocated costs were then charged against the well by including them in the operating cost in the fifteen year forecast.

PHILLIPS PETROLEUM COMPANY
Commerciality Determination

San Juan 29-6 Unit #244
Fruitland Coal
W/2 Section 31-T29N-R6W
Rio Arriba County, New Mexico

Date of First Delivery: 09/08/93

Date of Commerciality Submittal:

Well Cost Data

Total Well Costs:	361,996		
Production Taxes & Royalty:	20.442175%	BLM	12.50
		Severance	3.750000
		School	4.000000
		Conservation	0.180000
		Ad Valorem	0.012175

Average Product Pricing

1994 1.46/ MCF

Estimated Gross Annual Production and Operating Expenses

<u>Year</u>	<u>Gas (MMCF)</u>	<u>* Operating Expenses (\$)</u>
1993 (4 mo)	9.4 (Actual)	2,974 (Actual)
1994	20	
1995	20	
1996	20	
1997	20	
1998	20	
1999	20	
2000	20	
2001	20	
2002	20	
2003	20	
2004	20	
2005	20	
2006	20	
2007	20	

* Operating Expenses were not escalated for inflation.

SAN JUAN 29-6 UNIT #244

COMMERCIALITY DETERMINATION

The subject well was spudded on 11/14/90 in the west half of Section 31, T29N-R6W. After a total depth of 3637' was reached on 12/28/91, the well was initially completed open hole by means of cavitation. After cavitation, the well did not respond as desired. On 12/31/91, the gas and water flow test was too small to measure.

Since the coal appeared not to be cleated, a fracture stimulation was designed for the subject well. Initially, a 4-1/2" linear was set at 3636' with the top of the linear at 3311'. Secondly, the Fruitland Coal formation was perforated with 2 SPF from 3447' to 3634' for a total of 178 shots. Then, the well was fracture stimulated on 10/24/92 with 791 bbls of 30 ppg linear guar gel, 157,000 lbs of 16/30 Brady sand, and 1,366,000 SCF of nitrogen at 70% quality. The fracture treatment produced very limited results on the extremely tight Fruitland Coal formation. In fact, the subject well only tested/pitoted 288 MCF/D with 20 GWPD following the fracture treatment. Currently, the well is producing only 82 MCF/D with a trace of water from the perforated Fruitland Coal interval 3447' to 3634'.

Taking into account the subject well's past history and current rates, the well will obviously not be deemed commercial in the 29-6 Unit Participating Area. As a result, the economic evaluation and operating expenses were not prepared for this commerciality determination report.

MEP81-01

PARPI - WELLZONE PRODUCTION BROWSE

Date: 6/28/94

YEARLY TOTALS

User: #AM3

Wellzone F8975 01 Yr: 1993 Mth: 01 Property: 650165 SAN JUAN 29-6 UNIT #
 Screen: 1 (1-Prod, 2-Inj, 3-Both) Well No: 000244
 Type: T (T-Total, D-Daily Avg) Field: BASIN
 Period: Y (M-Monthly, Y-Yearly, C-Cumm) Reserv: 20001 FRUITLAND COAL

ADJ	PRODUCED			DAYS		WELL	
FLG DATE	OIL (BBL)	GAS (MCF)	WATER (BBL)	PROD	OP	ST	CL TY
1993	0.00	9,408	0	100.00	100		
1994	0.00	8,264	0	143.00	143		

NO MORE DATA AVAILABLE

PA1=ICE PA2=Exit PF1=Help

PF3=End

PF11=GRAPH

Transfer-> _____

PF7=Backward

PF8=Forward

PF10=GRAND MENU

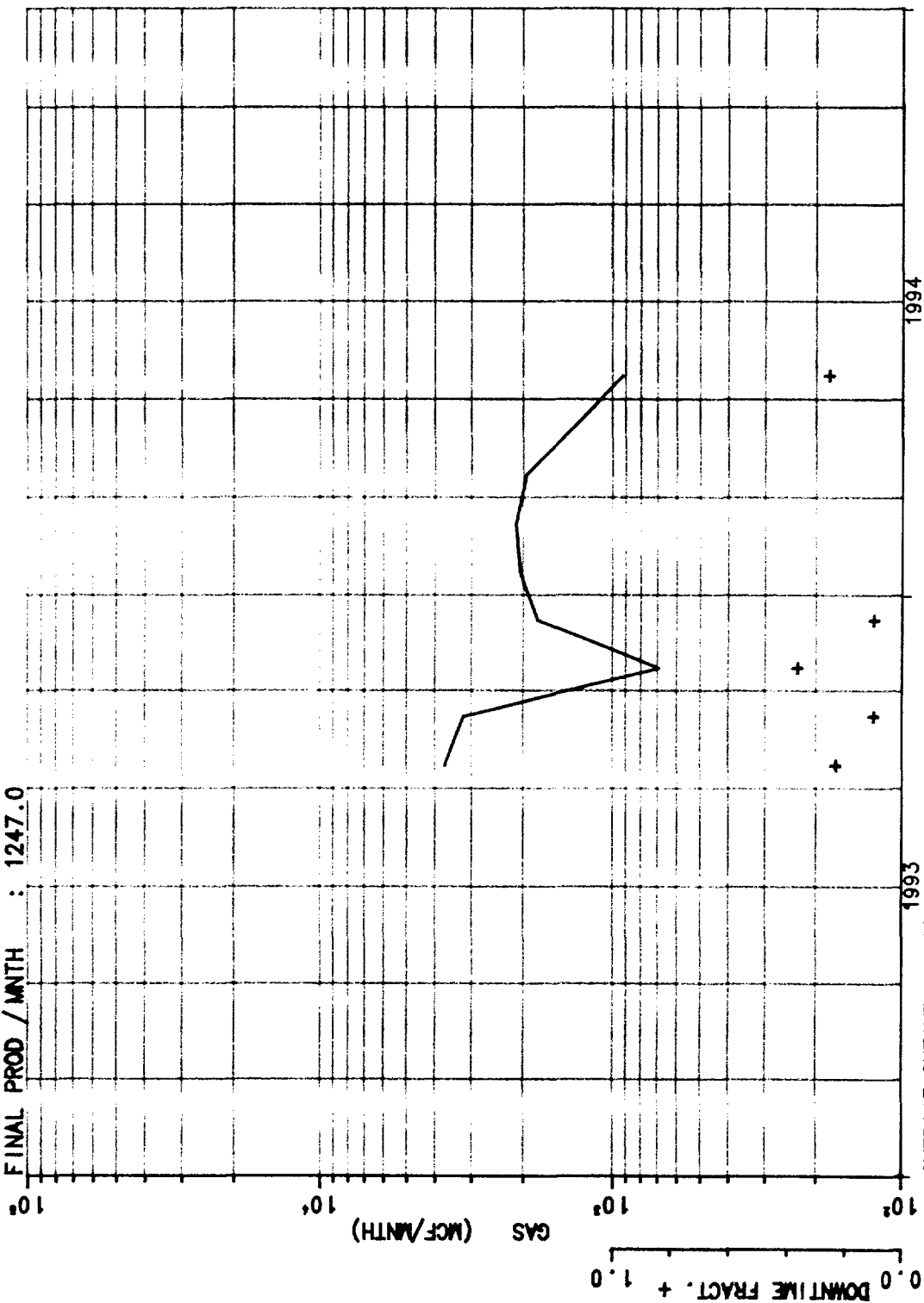
PF12=LOG GRAPH

9/93-5/94

INITIAL PROD / MNTH : 4731.0
REMAINING LIFE : 0.75

CUM PRODUCTION : 17672.
FINAL PROD / MNTH : 1247.0

Current Cums
17672. MCF GAS



AVERAGE ONTIME = 0.890

LEASE- 650165 : SAN JUAN 29-6 UNIT #244
RESVR- 001 : BASIN
WELL - 000244 PHS WELL PRODUCTION

F897501
ZONE-650165001000244 F897501
API-30039249780000

SWD AND GATHERING SYSTEM COST

The SWD facility and gathering system costs were allocated equally back to each well in the unit. The allocated costs were then charged against the well by including them in the operating cost in the fifteen year forecast.

PHILLIPS PETROLEUM COMPANY
Commerciality Determination

San Juan 29-6 Unit #251
Fruitland Coal
W/2 Section 23-T29N-R6W
Rio Arriba County, New Mexico

Date of First Delivery: 12/20/93

Date of Commerciality Submittal:

Well Cost Data

Total Well Costs:	345,048	
Production Taxes & Royalty:	20.442175%	BLM 12.50
		Severance 3.750000
		School 4.000000
		Conservation 0.180000
		Ad Valorem 0.012175

Average Product Pricing

1994 1.46/ MCF

Estimated Gross Annual Production and Operating Expenses

Year	Gas (MMCF)	* Operating Expenses (\$)
1993 (1 mo)	2.8 (Actual)	
1994	20	
1995	20	
1996	20	
1997	20	
1998	20	
1999	20	
2000	20	
2001	20	
2002	20	
2003	20	
2004	20	
2005	20	
2006	20	
2007	20	

* Operating Expenses were not escalated for inflation.

SAN JUAN 29-6 UNIT #251

COMMERCIALITY DETERMINATION

The subject well was spudded on 09/18/92 in the west half of Section 23, T29N-R6W. After a total depth of 3581' was reached on 10/23/92, the well was completed openhole by means of cavitation. After cavitation, the well did not respond as desired. On 10/29/92, the gas tested at 158 MCF/D, while the water tested at 120 BWPD.

Since the coal appeared not to be cleated, a fracture stimulation was designed for the subject well. The Fruitland Coal, openhole interval 3374'-3581' was fracture stimulated on 10/25/93 by treating down the 7" casing with 692 bbls of 30# gelled fluid, 1,298,000 SCF of nitrogen at 60-70% quality foam, and 175,000 lbs 16/30 Brady sand ramped 1 to 6 ppg. The well was flushed with 13 bbls gelled water, and the well screened out with 6 ppg on formation. The fracture treatment produced very limited results on the extremely tight Fruitland Coal formation. In fact, the subject well only tested/pitoted 415 MCF/D with 5 BWPD following the fracture treatment. Currently, the well is on gas lift and is still only producing 38 MCF/D with a trace of water from the openhole Fruitland Coal interval 3374'-3581'.

Taking into account the subject well's past history and current rates, the well will obviously not be deemed commercial in the 29-6 Unit Participating Area. As a result, the economic evaluation and operating expenses were not prepared for this commerciality determination report.

MEP81-01

PARPI - WELLZONE PRODUCTION BROWSE
YEARLY TOTALS

Date: 6/29/94

User: #AM3

Wellzone F8B17 01 Yr: 1993 Mth: 01 Property: 650352 SAN JUAN 29-6 UNIT #
 Screen: 1 (1-Prod, 2-Inj, 3-Both) Well No: 000251
 Type: T (T-Total, D-Daily Avg) Field: BASIN
 Period: Y (M-Monthly, Y-Yearly, C-Cumm) Reserv: 20001 FRUITLAND COAL

ADJ	PRODUCED			DAYS		WELL	
FLG DATE	OIL (BBL)	GAS (MCF)	WATER (BBL)	PROD	OP	ST	CL TY
1993	0.00	2,775	0	12.00	12		
1994	0.00	9,009	0	144.00	144		

NO MORE DATA AVAILABLE

PA1=ICE PA2=Exit PF1=Help

PF3=End

PF11=GRAPH

Transfer-> _____

PF7=Backward

PF8=Forward

PF10=GRAND MENU

PF12=LOG GRAPH

Current Cum
11784. MCF GAS

12/93-5/94

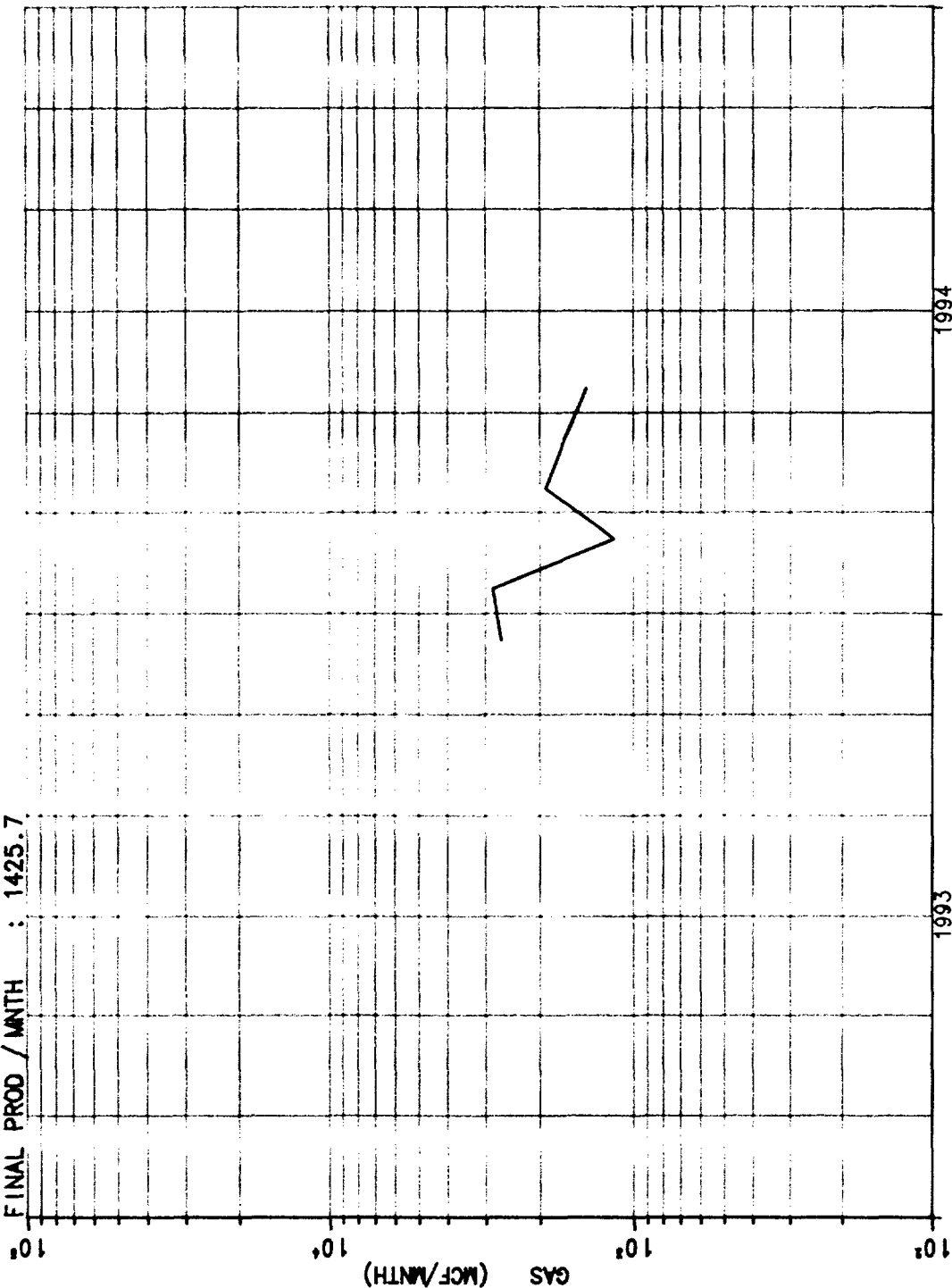
INITIAL PROD / MNTH : 2722.8

REMAINING LIFE : 0.50

0.00

CUM PRODUCTION : 11784.

FINAL PROD / MNTH : 1425.7

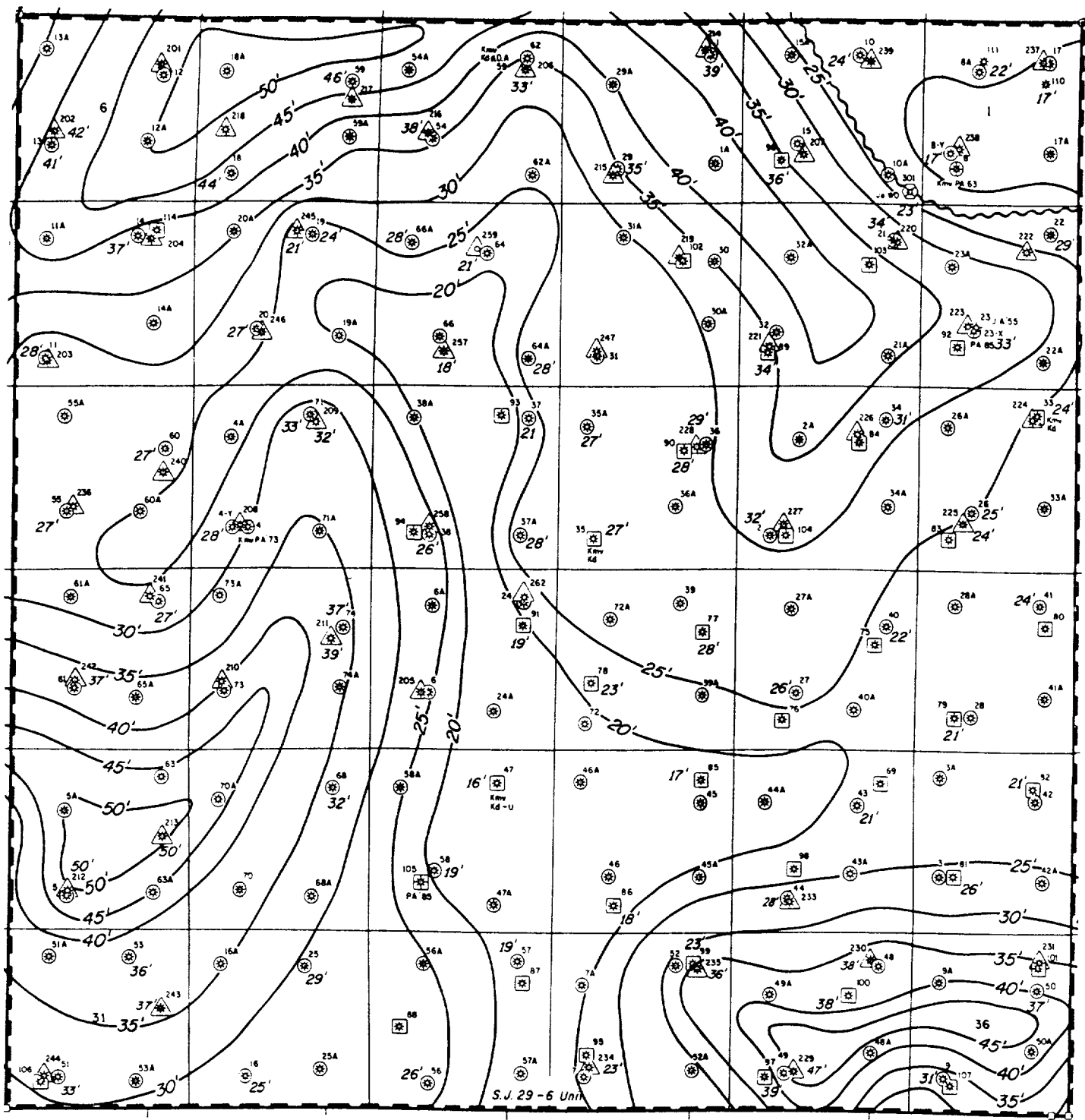


LEASE- 650352 : SAN JUAN 28-6 UNIT #251
RESVR- 001 : BASIN
WELL - 000251 PHS WELL PRODUCTION

F8B1701
ZONE-650352001000251 F8B1701
API-30039251690000

SWD AND GATHERING SYSTEM COST

The SWD facility and gathering system costs were allocated equally back to each well in the unit. The allocated costs were then charged against the well by including them in the operating cost in the fifteen year forecast.



R - 6 - W

PRODUCING INTERVAL

Kfm	FARMINGTON	Kfm
Kl	KIRTLAND	Kl
△	FRUITLAND	Kf
☆	PICTURED CLIFFS	Kpc
⊙	CHACRA	Kc
⊗	LA VENTANA	Klv
⊕	MESAVERDE	Kmv
⊛	GALLUP	Kgl
⊠	DAKOTA	Kd
⊙	ALL PRODUCTION BELOW CRETACEOUS	
		<div> <div> <div>Kch</div> <div>Km</div> <div>Ksl</div> </div> <div> <div>CLIFFHOUSE</div> <div>MENEPEE</div> <div>POINT LOOKOUT</div> </div> </div>
		<div> <div>K1</div> <div>K2</div> <div>K3</div> </div> <div> <div>TOCITO</div> <div>GREENHORN</div> </div>
		<div> <div>Jc</div> <div>Rp</div> <div>Pbc</div> <div>M</div> </div> <div> <div>ENTRADA</div> <div>PARADOX</div> <div>BARKER CREEK</div> <div>LEADVILLE</div> </div>



PHILLIPS PETROLEUM COMPANY
FARMINGTON AREA

S. J. 29-6 UNIT
Rio Arriba Co., N.M.

AGGREGATE NET COAL ISOLITH
OF THE FRUITLAND COAL

C1:5'

5-1-92

PHILLIPS PETROLEUM COMPANY
Commerciality Determination

San Juan 29-6 Unit #243
Fruitland Coal
E/2 Section 31-T29N-R6W
Rio Arriba County, New Mexico

Date of First Delivery: 09/03/93

Date of Commerciality Submittal: _____

Well Cost Data

Total Well Costs:	302,507		
Production Taxes & Royalty:	20.442175%	BLM	12.50
		Severance	3.750000
		School	4.000000
		Conservation	0.180000
		Ad Valorem	0.012175

Average Product Pricing

1994 1.46/ MCF

Estimated Gross Annual Production and Operating Expenses

<u>Year</u>	<u>Gas (MMCF)</u>	<u>* Operating Expenses (\$)</u>
1993 (4 mo)	14 (Actual)	4,130 (Actual)
1994	45	
1995	45	
1996	45	
1997	45	
1998	45	
1999	45	
2000	45	
2001	45	
2002	45	
2003	45	
2004	45	
2005	45	
2006	45	
2007	45	

* Operating Expenses were not escalated for inflation.

SAN JUAN 29-6 UNIT #243

COMMERCIALITY DETERMINATION

The subject well was spudded on 11/18/90 in the east half of Section 31, T29N-R6W. After a total depth of 3289' was reached on 01/03/92, the well was initially completed open hole by means of cavitation. After cavitation, the well did not respond as desired. On 11/04/92, the gas pitoted at 355 MCF/D, while the water was too small to measure.

Since the coal appeared not to be cleated, a fracture stimulation was designed for the subject well. Initially, a 4-1/2" linear was set at 3287' with the top of the linear at 3022'. Secondly, the Fruitland Coal formation was perforated with 2 SPF from 3206' to 3283' for a total of 154 shots. Then, the well was fracture stimulated on 11/31/92 with 677 bbls of 30 ppg linear guar gel, 126,100 lbs of 16/30 sand, and 872,405 SCF of nitrogen at 70% quality. The fracture treatment produced very limited results on the extremely tight Fruitland Coal formation. In fact, the subject well only tested/pitoted 351 MCF/D with 4 GWPD following the fracture treatment. Currently, the well is producing only 98 MCF/D with a trace of water from the perforated Fruitland Coal interval 3206' to 3287'.

Taking into account the subject well's past history and current rates, the well will obviously not be deemed commercial in the 29-6 Unit Participating Area. As a result, the economic evaluation and operating expenses were not prepared for this commerciality determination report.

MEP81-01

PARPI - WELLZONE PRODUCTION BROWSE
YEARLY TOTALS

Date: 6/30/94

User: #AM3

Wellzone F8974 01 Yr: 1993 Mth: 01 Property: 650164 SAN JUAN 29-6 UNIT #
 Screen: 1 (1-Prod, 2-Inj, 3-Both) Well No: 000243
 Type: T (T-Total, D-Daily Avg) Field: BASIN
 Period: Y (M-Monthly, Y-Yearly, C-Cumm) Reserv: 20001 FRUITLAND COAL

ADJ	PRODUCED			DAYS		WELL	
FLG DATE	OIL (BBL)	GAS (MCF)	WATER (BBL)	PROD	OP	ST	CL TY
1993	0.00	14,492	0	109.00	109		
1994	0.00	9,738	0	124.00	124		

NO MORE DATA AVAILABLE

PA1=ICE PA2=Exit PF1=Help PF3=End PF11=GRAPH
 Transfer-> PF7=Backward PF8=Forward PF10=GRAND MENU PF12=LOG GRAPH

9/93-5/94

INITIAL PROD / MNTH : 4491.5

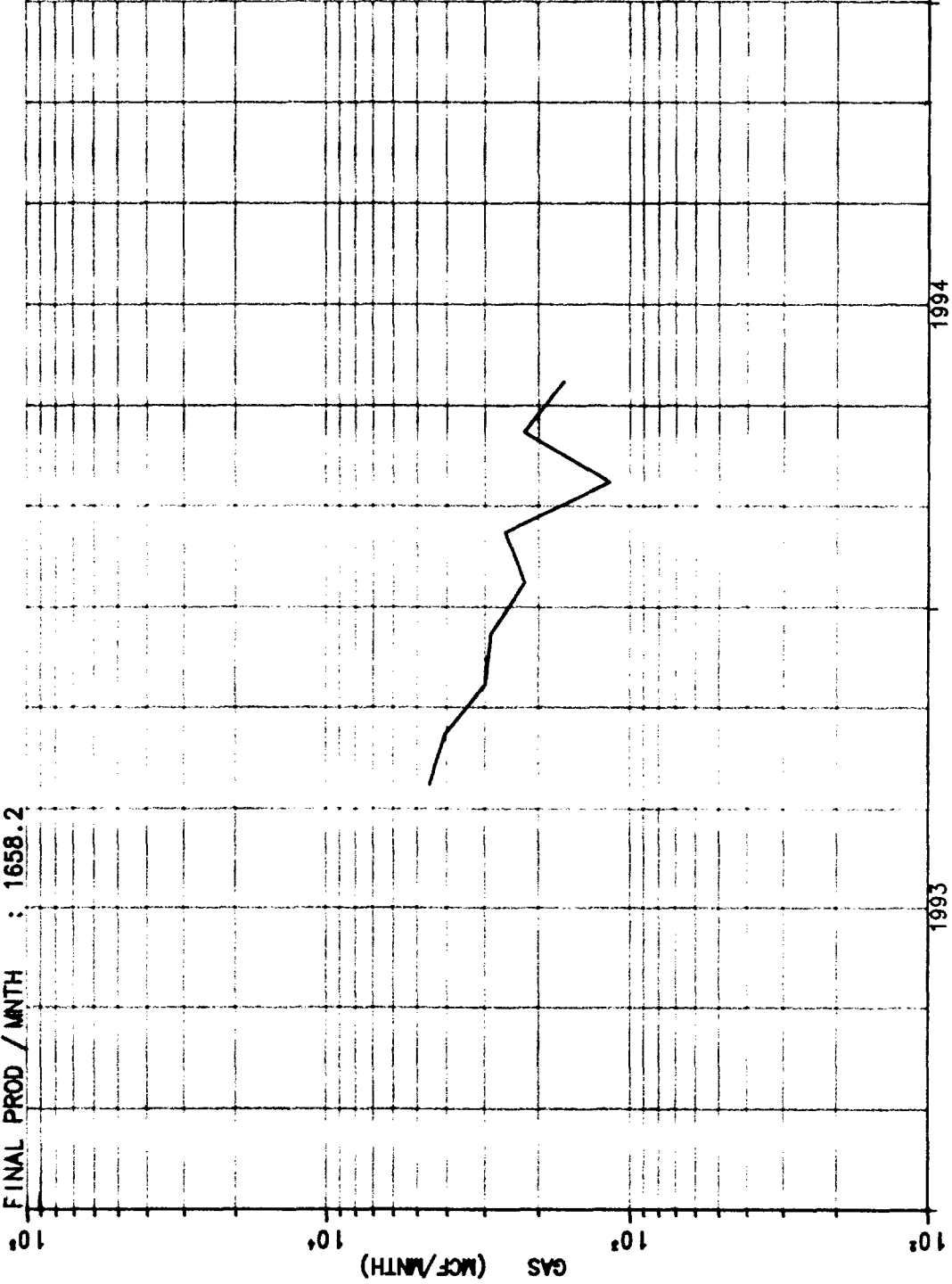
REMAINING LIFE : 0.75

0.00

CUM PRODUCTION : 24230.

FINAL PROD / MNTH : 1658.2

Current Cums
24230. MCF GAS

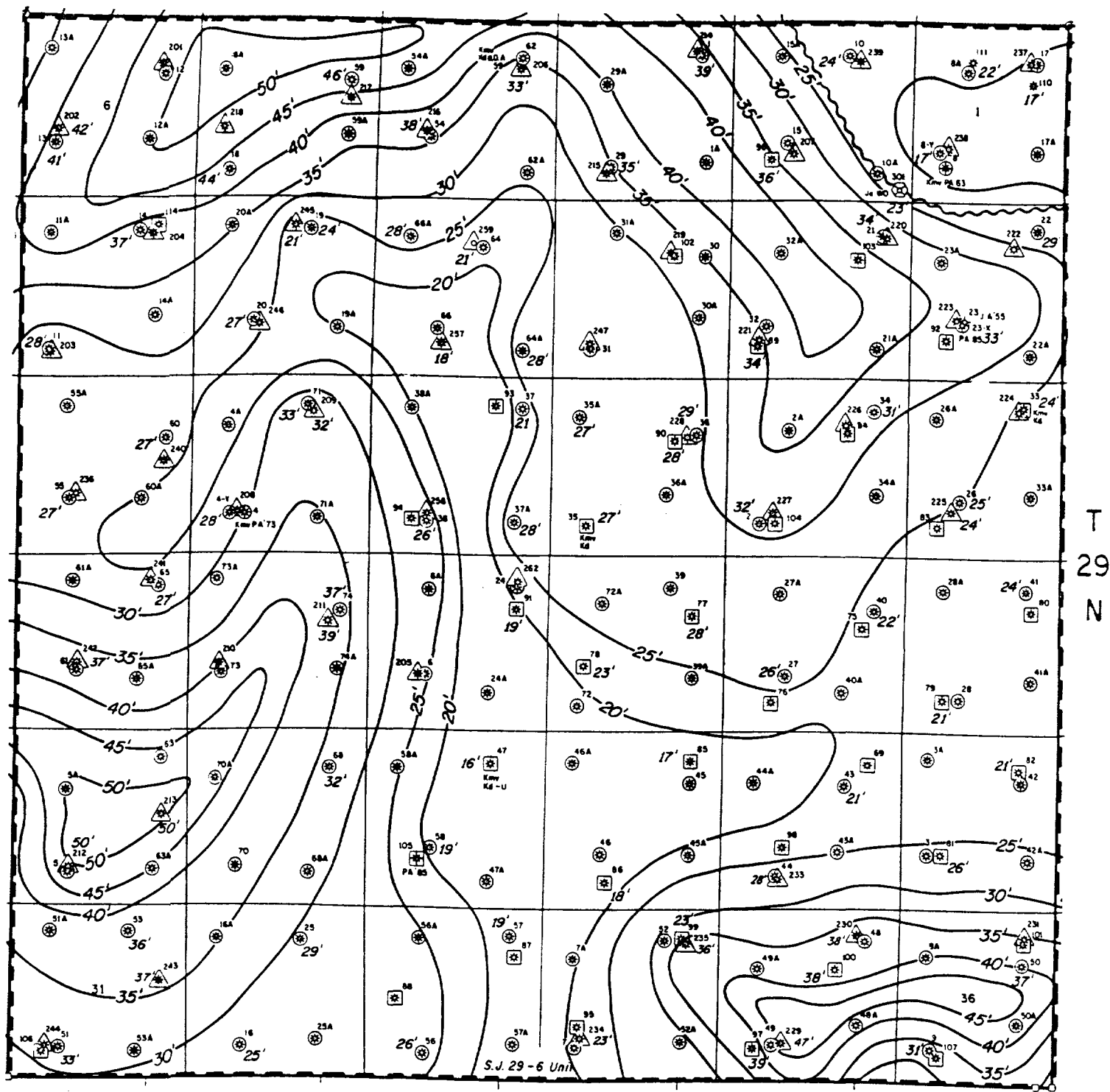


LEASE- 650184 : SAN JUAN 29-6 UNIT #243
RESVR- 001 : BASIN
WELL - 000243 PHS WELL PRODUCTION

F897401
ZONE-650184001000243 F897401
API-30039249430000

SWD AND GATHERING SYSTEM COST

The SWD facility and gathering system costs were allocated equally back to each well in the unit. The allocated costs were then charged against the well by including them in the operating cost in the fifteen year forecast.



5-1-92

PHILLIPS PETROLEUM COMPANY
Commerciality Determination

San Juan 29-6 Unit #230
Fruitland Coal
E/2 Section 35-T29N-R6W
Rio Arriba County, New Mexico

Date of First Delivery: 09/03/93

Date of Commerciality Submittal:

Well Cost Data

Total Well Costs:	329,552		
Production Taxes & Royalty:	20.442175%	BLM	12.50
		Severance	3.750000
		School	4.000000
		Conservation	0.180000
		Ad Valorem	0.012175

Average Product Pricing

1994 1.46/ MCF

Estimated Gross Annual Production and Operating Expenses

Year	Gas (MMCF)	* Operating Expenses (\$)
1993 (4 mo)	18 (Actual)	2,740 (Actual)
1994	60	
1995	60	
1996	60	
1997	60	
1998	60	
1999	60	
2000	60	
2001	60	
2002	60	
2003	60	
2004	60	
2005	60	
2006	60	
2007	60	

* Operating Expenses were not escalated for inflation.

SAN JUAN 29-6 UNIT #230

COMMERCIALITY DETERMINATION

The subject well was spudded on 06/29/90 in the east half of Section 35, T29N-R6W. After a total depth of 3284' was reached on 12/04/92, the well was initially completed openhole by means of cavitation. After cavitation, the well did not respond as desired. On 12/08/91, the gas only measured a trace when the well was unloading, while the water was too small to measure.

Since the coal appeared not to be cleated, a fracture stimulation was designed for the subject well. Initially, a 4-1/2" linear was cemented at 3283' with the top of the linear at 2978'. Secondly, the Fruitland Coal formation was perforated with 2 SPF from 3069' to 3272' for a total of 134 shots. Then, the well was fracture stimulated on 11/10/92 with 25,531 gals of 30 ppg gel fluid, 148,500 lbs of 16/30 Brady sand, and 1,029,651 SCF of nitrogen at 70% quality. The fracture treatment produced very limited results on the extremely tight Fruitland Coal formation. In fact, the subject well only tested/pitoted 86 MCF/D with 72 GWPD following the fracture treatment. Currently, the well is producing only 180 MCF/D with a trace of water from the perforated Fruitland Coal interval 3069' to 3272'.

Taking into account the subject well's past history and current rates, the well will obviously not be deemed commercial in the 29-6 Unit Participating Area. As a result, the economic evaluation and operating expenses were not prepared for this commerciality determination report.

MEP81-01

PARPI - WELLZONE PRODUCTION BROWSE
YEARLY TOTALS

Date: 6/30/94

User: JAM3

Wellzone F8927 01 Yr: 1993 Mth: 01 Property: 650081 SAN JUAN 29-6 UNIT #
 Screen: 1 (1-Prod, 2-Inj, 3-Both) Well No: 000230
 Type: T (T-Total, D-Daily Avg) Field: BASIN
 Period: Y (M-Monthly, Y-Yearly, C-Cum) Reserv: 20001 FRUITLAND COAL

ADJ	PRODUCED	DAYS	- WELL -
PLG DATE	OIL (BBL)	GAS (MCF)	WATER (BBL)
1993	0.00	18,000	0
1994	0.00	23,149	0

NO MORE DATA AVAILABLE

PA1=ICE PA2=Exit PF1=Help

PF3=End

PF11=GRAPH

Transfer-> PF7=Backward PF8=Forward PF10=GRAND MENU PF12=LOG GRAPH

9/93-5/94

INITIAL PROD / MONTH : 7382.1

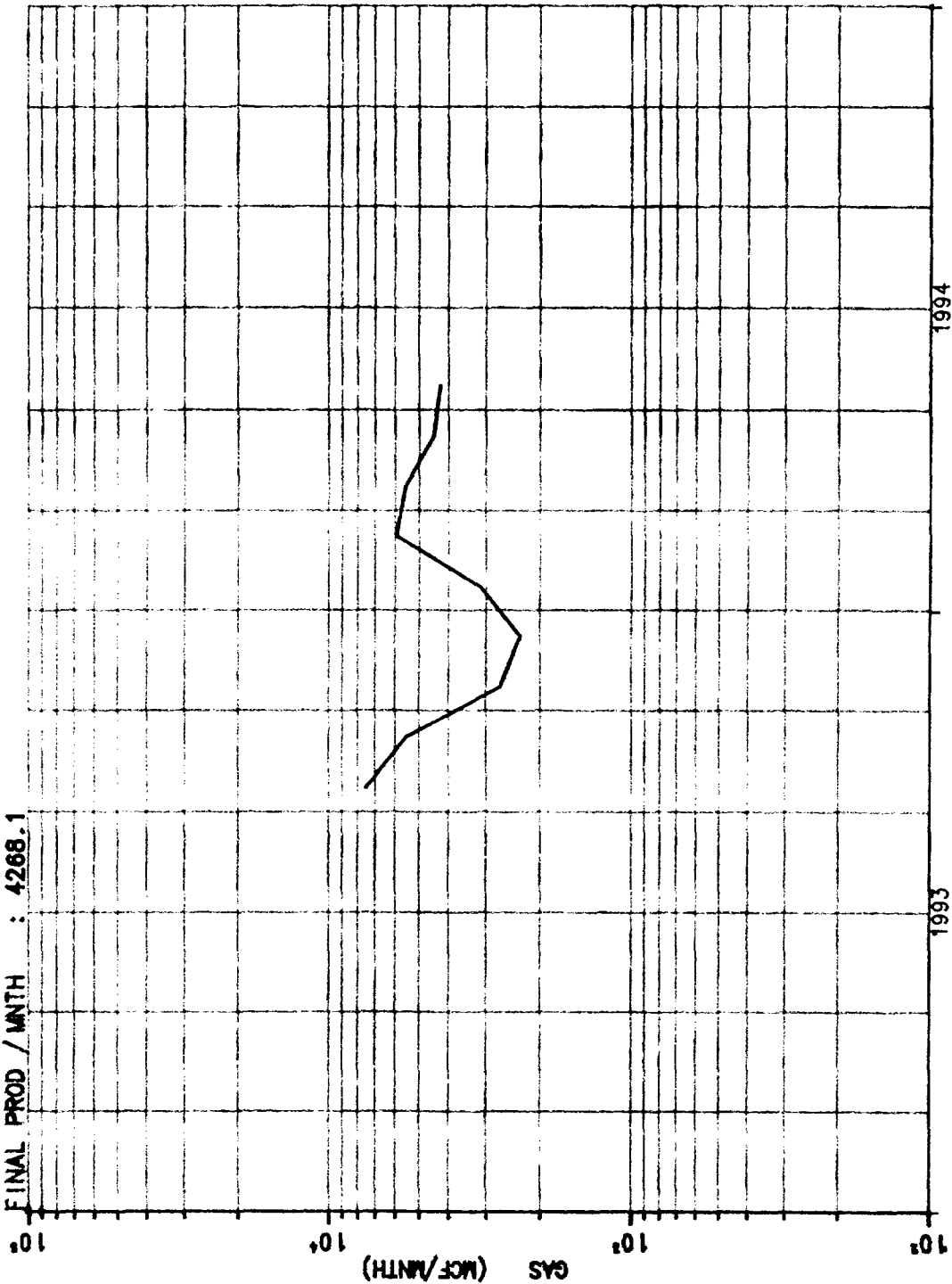
REMAINING LIFE : 0.75

0.00

CUM PRODUCTION : 41149.

FINAL PROD / MONTH : 4268.1

Current Cums
41149. MCF GAS

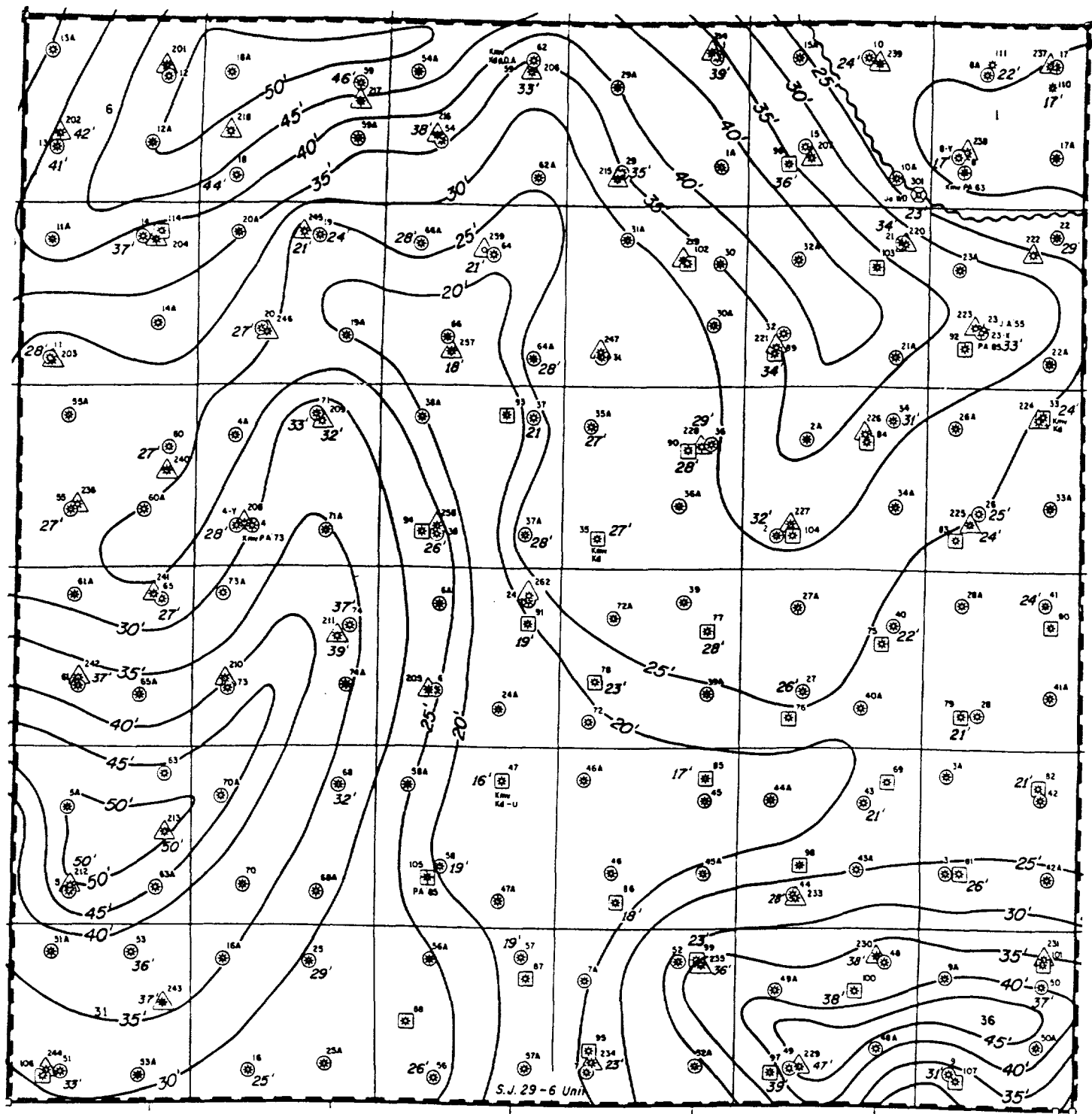


LEASE- 650081 : SAN JUAN 28-6 UNIT #230
RESVR- 001 : BASIN
WELL - 000230 PHS WELL PRODUCTION

F892701
ZONE-650081001000230 F892701
API-30039246090000

SWD AND GATHERING SYSTEM COST

The SWD facility and gathering system costs were allocated equally back to each well in the unit. The allocated costs were then charged against the well by including them in the operating cost in the fifteen year forecast.



R-6-W

PRODUCING INTERVAL

Kfm	FARMINGTON	Kfm
Kk	KIRTLAND	Kk
Kf	FRUITLAND	Kf
Kbc	PICTURED CLIFFS	Kbc
Kc	CHACRA	Kc
Klv	LA VENTANA	Klv
Kmv	MESAVERDE	Kmv
Kgl	GALLUP	Kgl
Kd	DAKOTA	Kd
	ALL PRODUCTION BELOW CRETACEOUS	
	ENTRADA	
	PARADOX	
	BARKER CREEK	
	LEADVILLE	
	CLIFFHOUSE	
	MENEFEE	
	POINT LOOKOUT	
	TOCITO	
	GREENHORN	



PHILLIPS PETROLEUM COMPANY
FARMINGTON AREA

S.J. 29-6 UNIT

Rio Arriba Co., N.M.

AGGREGATE NET COAL ISOLITH
OF THE FRUITLAND COAL

C1:5'

5-1-92

PHILLIPS PETROLEUM COMPANY
Commerciality Determination

San Juan 29-6 Unit #234
Fruitland Coal
W/2 Section 34-T29N-R6W
Rio Arriba County, New Mexico

Date of First Delivery: 08/10/93

Date of Commerciality Submittal:

Well Cost Data

Total Well Costs:	303,258		
Production Taxes & Royalty:	20.442175%	BLM	12.50
		Severance	3.750000
		School	4.000000
		Conservation	0.180000
		Ad Valorem	0.012175

Average Product Pricing

1994 1.46/ MCF

Estimated Gross Annual Production and Operating Expenses

Year	Gas (MMCF)	* Operating Expenses (\$)
1993 (5 mo)	16 (Actual)	2,899 (Actual)
1994	20	
1995	20	
1996	20	
1997	20	
1998	20	
1999	20	
2000	20	
2001	20	
2002	20	
2003	20	
2004	20	
2005	20	
2006	20	
2007	20	

* Operating Expenses were not escalated for inflation.

SAN JUAN 29-6 UNIT #234

COMMERCIALITY DETERMINATION

The subject well was spudded on 09/24/90 in the west half of Section 34, T29N-R6W. After a total depth of 3256' was reached on 03/22/91, the well was initially completed openhole by means of cavitation. After cavitation, the well did not respond as desired. On 03/27/91, the flow test indicated no gas or water.

Since the coal appeared not to be cleated, a fracture stimulation was designed for the subject well. Initially, a 4-1/2" linear was cemented at 3255' with the top of the linear at 3035'. Secondly, the Fruitland Coal formation was perforated with 2 SPF from 3143' to 3247' for a total of 98 shots. Then, the well was fracture stimulated on 11/11/92 with 20,298 gals of 30# gel/1000 gal, 110,000 lbs of 16/30 Brady sand ramped from 1 ppg to 5 ppg, and 751,550 SCF of nitrogen at 70% quality. The fracture treatment produced very limited results on the extremely tight Fruitland Coal formation. In fact, the subject well only tested/pitoted 290 MCF/D with 3 BWPD following the fracture treatment. Currently, the well is producing only 137 MCF/D with a trace of water from the perforated Fruitland Coal interval 3136' to 3247'.

Taking into account the subject well's past history and current rates, the well will obviously not be deemed commercial in the 29-6 Unit Participating Area. As a result, the economic evaluation and operating expenses were not prepared for this commerciality determination report.

MEP81-01

PARPI - WELLZONE PRODUCTION BROWSE

Date: 7/01/94

YEARLY TOTALS

User: #AM3

Wellzone F8996 01 Yr: 1993 Mth: 08 Property: 650149 SAN JUAN 29-6 UNIT #
 Screen: 1 (1-Prod, 2-Inj, 3-Both) Well No: 000234
 Type: T (T-Total, D-Daily Avg) Field: BASIN
 Period: Y (M-Monthly, Y-Yearly, C-Cumm) Reserv: 20001 FRUITLAND COAL

ADJ	PRODUCED			DAYS		WELL		
FLG DATE	OIL (BBL)	GAS (MCF)	WATER (BBL)	PROD	OP	ST	CL	TY
1993	0.00	15,798	0	126.00	126			
1994	0.00	15,222	0	143.00	143			

NO MORE DATA AVAILABLE

PA1=ICE PA2=Exit PF1=Help PF3=End PF11=GRAPH
 Transfer-> PF7=Backward PF8=Forward PF10=GRAND MENU PF12=LOG GRAPH

8/93-5/94

INITIAL PROD / MONTH : 4925.5

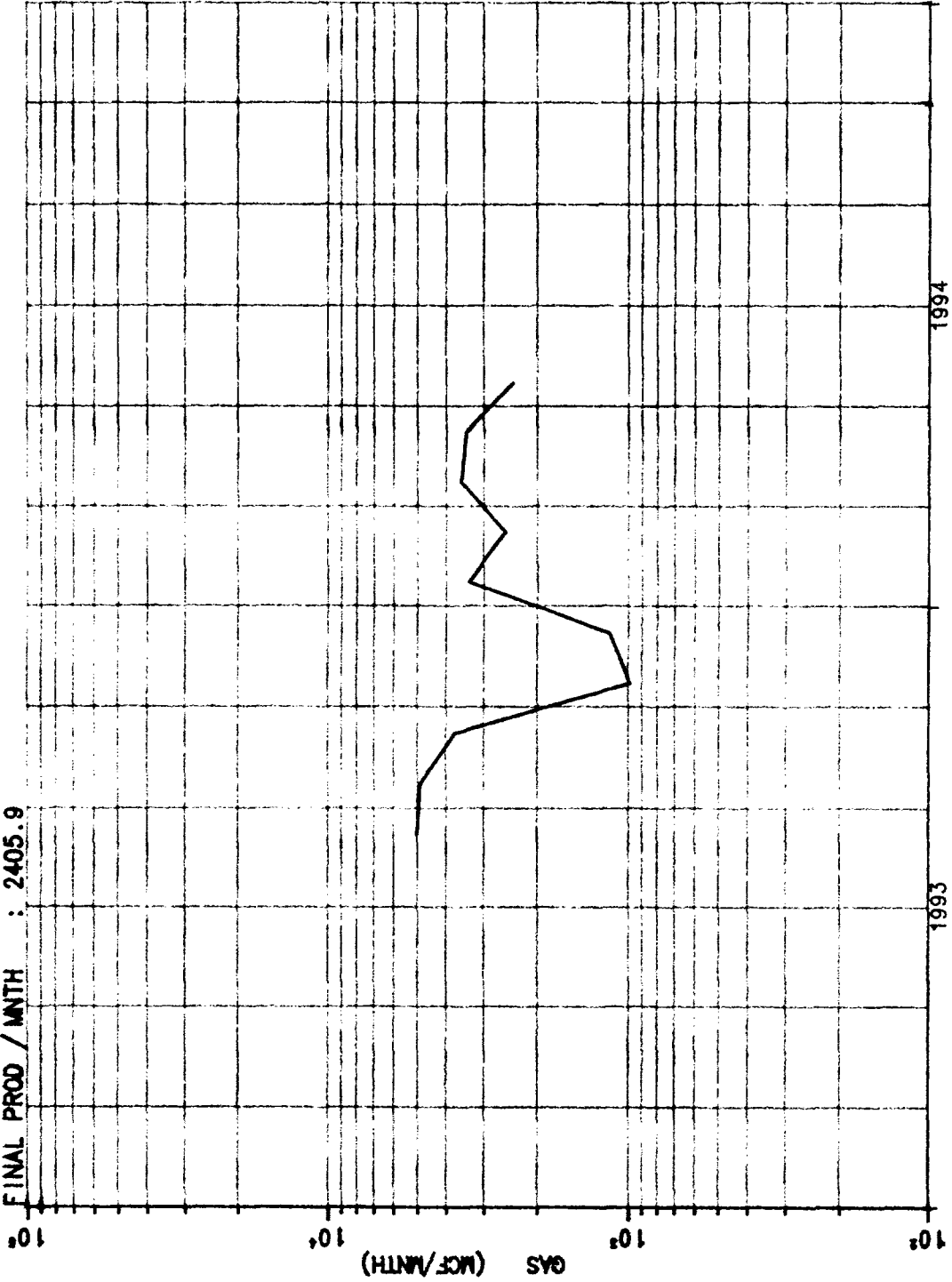
REMAINING LIFE : 0.83

0.00

CUM PRODUCTION : 31020.

FINAL PROD / MONTH : 2405.9

Current Cum
31020. MCF GAS

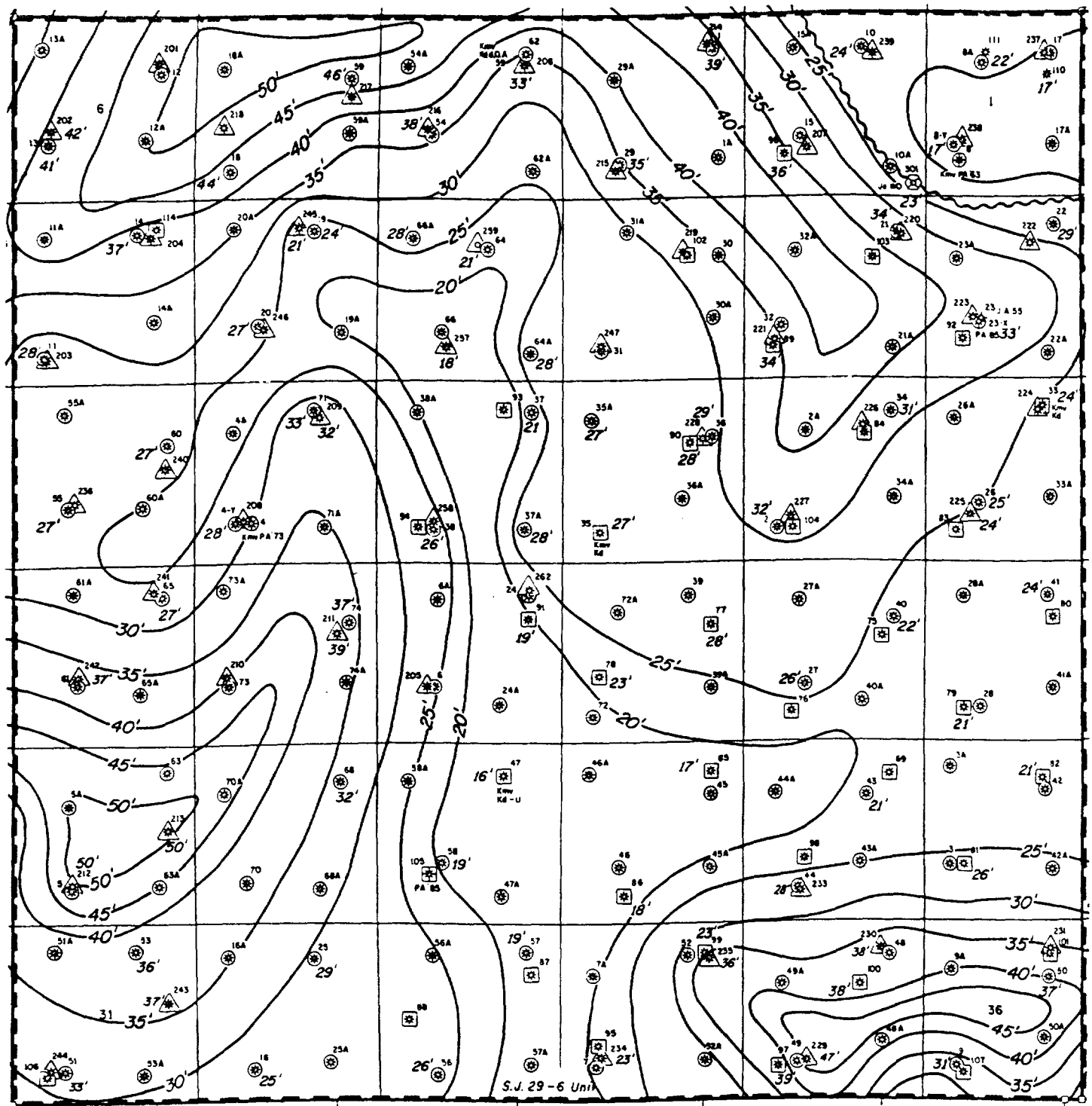


LEASE- 650149 : SAN JUAN 29-6 UNIT #234
RESVR- 001 : BASIN
WELL - 000234 PHS WELL PRODUCTION

F899601
ZONE-650149001000234 F899601
API-30039249000000

SWD AND GATHERING SYSTEM COST

The SWD facility and gathering system costs were allocated equally back to each well in the unit. The allocated costs were then charged against the well by including them in the operating cost in the fifteen year forecast.



5-1-92

PHILLIPS PETROLEUM COMPANY
Commerciality Determination

San Juan 29-6 Unit #249
Fruitland Coal
E/2 Section 22-T29N-R6W
Rio Arriba County, New Mexico

Date of First Delivery: 12/01/93

Date of Commerciality Submittal:

Well Cost Data

Total Well Costs:	287,459		
Production Taxes & Royalty:	20.442175%	BLM	12.50
		Severance	3.750000
		School	4.000000
		Conservation	0.180000
		Ad Valorem	0.012175

Average Product Pricing

1994 1.46/ MCF

Estimated Gross Annual Production and Operating Expenses

Year	Gas (MMCF)	* Operating Expenses (\$)
1993 (1 mo)	5.5 (Actual)	401
1994	102	12,039
1995	97	12,039
1996	76	12,039
1997	61	12,039
1998	50	12,039
1999	42	12,039
2000	36	12,039
2001	31	12,039
2002	27	12,039
2003	23	12,039
2004	21	12,039
2005	19	12,039
2006	17	12,039
2007	15	12,039

* Operating Expenses were not escalated for inflation.

MEP81-01

PARPI - WELLZONE PRODUCTION BROWSE
YEARLY TOTALS

Date: 7/01/94

User: #AM3

Wellzone FSB16 01 Yr: 1993 Mth: 01 Property: 650351 SAN JUAN 29-6 UNIT #
 Screen: 1 (1-Prod, 2-Inj, 3-Both) Well No: 000249
 Type: T (T-Total, D-Daily Avg) Field: BASIN
 Period: Y (M-Monthly, Y-Yearly, C-Cumm) Reserv: 20001 FRUITLAND COAL

ADJ	PRODUCED			DAYS		WELL		
FLG DATE	OIL (BBL)	GAS (MCF)	WATER (BBL)	PROD	OP	ST	CL	TY
1993	0.00	5,521	0	31.00	31			
1994	0.00	30,694	0	144.00	144			

NO MORE DATA AVAILABLE

PA1=ICE PA2=Exit PF1=Help PF3=End PF11=GRAPH
 Transfer-> PF7=Backward PF8=Forward PF10=GRAND MENU PF12=LOG GRAPH

12/93-5/94

INITIAL PROD / MONTH : 5417.1

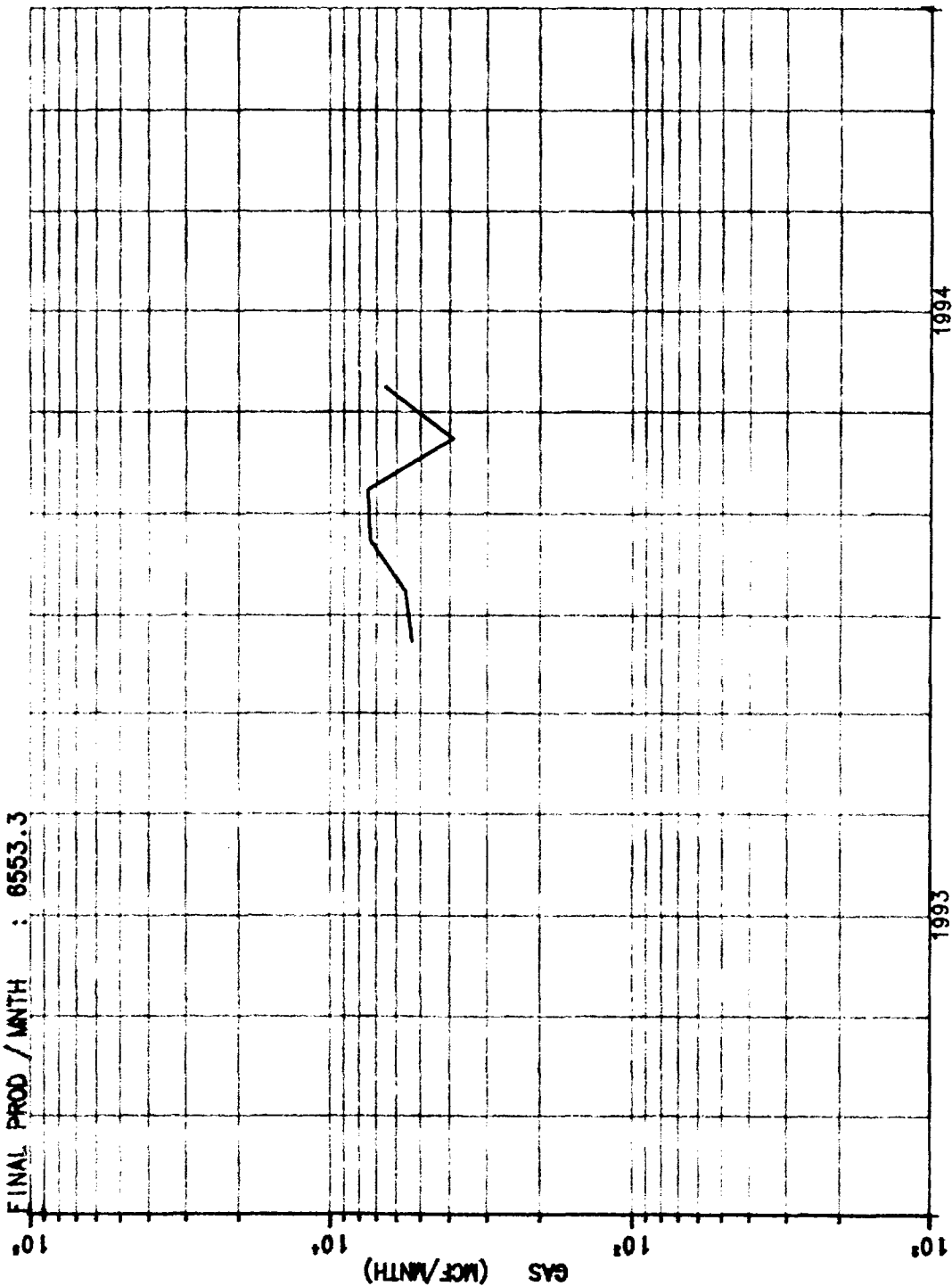
REMAINING LIFE : 0.50

0.00

CUM PRODUCTION : 36215.

FINAL PROD / MONTH : 8553.3

Current Cum
36215. MCF GAS



LEASE- 650351 : SAN JUAN 29-6 UNIT #249
RESVR- 001 : BASIN
WELL - 000249 PHS WELL PRODUCTION

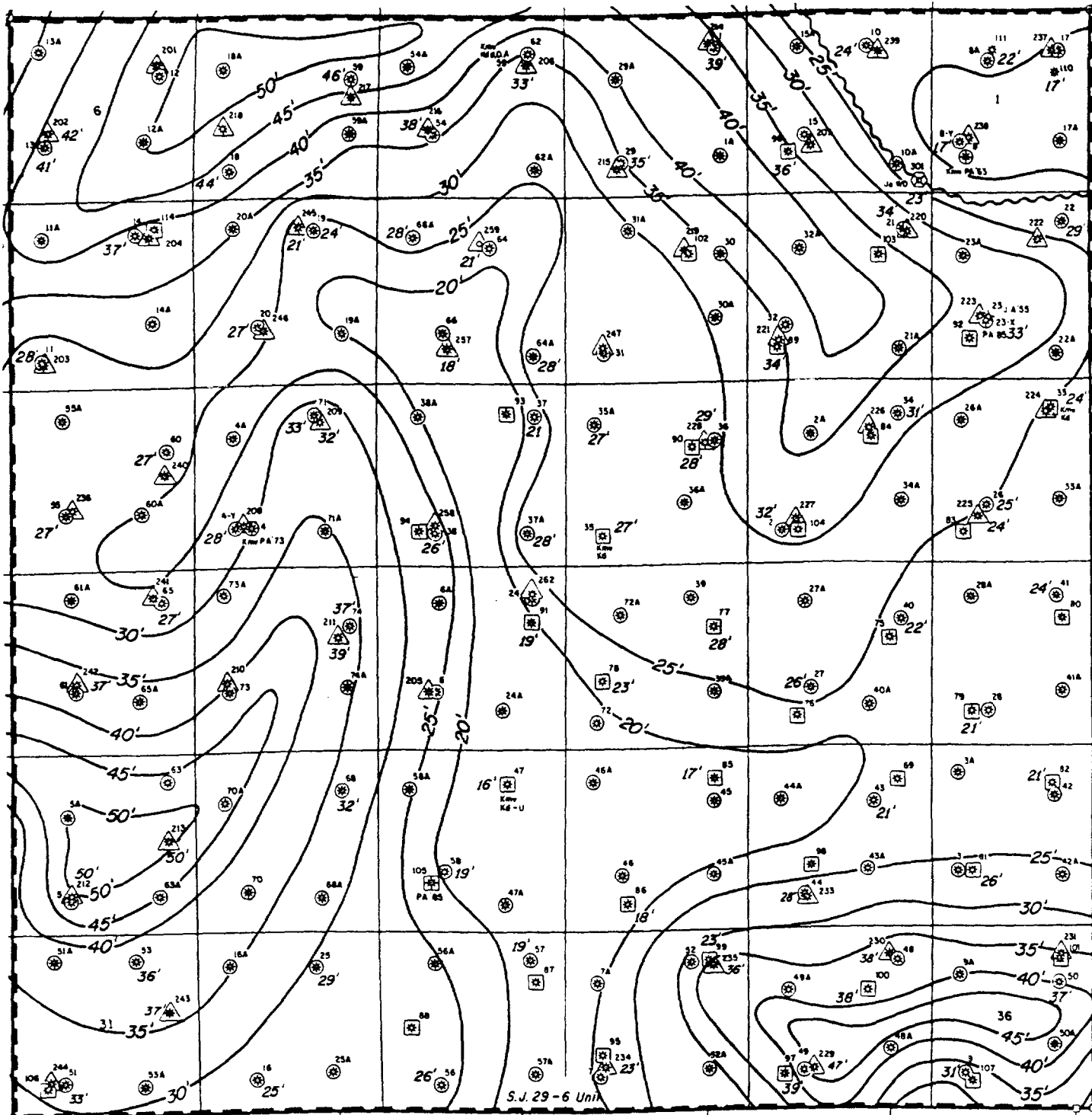
F8B1601
ZONE-650351001000249 F8B1601
API-30039252010000

CASE : CD 29-6 #249 ** ECONOMICS CASE SUMMARY **
 DESCRIPTION: COMMERCIALITY DETERMINATIONS WORKING INT : 100.000%
 CASE REVENUE INT : 79.558% OIL REV INT : 79.558% GAS REV INT : 79.558%
 CASE LIFE -FIRST MO-YR : 11-1992 PROD MO-YR : 12-1993 LAST YEAR : 2007

MEASURES OF MERIT		NET CASH FLOW SUMMARY (M\$)	
AARR (%)	: 16.6	CAPITAL OUTLAY	: 287.5
BREAKEVEN POINT (YRS.)	: 4.1	TOTAL REVENUE	: 723.1
PAYOUT (YRS.)	: 3.1	TOTAL EXPENSES	: 168.9
NTER	: 1.9	IBRT	: 554.1
ECONOMIC LIFE (YRS.)	: 14.1	CURRENT INCOME TAX	:
RESERVES SUMMARY		SALVAGE	:
OIL-GROSS MBBLS	:	CASH RETURNED	: 554.1
NET MBBLS	:	CASH FLOW	: 266.7
NET REVENUE (M\$)	:	NET PRESENT VALUE (M\$)	P.I.
BBL/DAY TO PAYOUT:	:	@ 13.0 %:	36.1 1.13
GAS GROSS MMCF	: 622.5	@ 10.0 %:	73.1 1.25
NET MMCF	: 495.2	@ 8.0 %:	101.8 1.35
NET REVENUE (M\$)	: 723.1	@ 6.0 %:	134.6 1.47
MCF/DAY TO PAYOUT:	: 249.6		
PRESS "ENTER" TO CONTINUE...		GOWEE_CASE_SUM	

SWD AND GATHERING SYSTEM COST

The SWD facility and gathering system costs were allocated equally back to each well in the unit. The allocated costs were then charged against the well by including them in the operating cost in the fifteen year forecast.



T
29
N

R-6-W

PRODUCING INTERVAL

Kfm	FARMINGTON	Kfm	
Kk	KIRTLAND	Kk	
Kf	FRUITLAND	Kf	
Kpc	PICTURED CLIFFS	Kpc	
Kc	CHACRA	Kc	
Klv	LA VENTANA	Klv	
Kmw	MESAVERDE	Kmw	
Kgl	GALLUP	Kgl	
Kd	DAKOTA	Kd	
J4	ENTRADA	J4	
Php	PARADOX	Php	
Phc	BARKER CREEK	Phc	
M1	LEADVILLE	M1	
Kch	CLIFFHOUSE	Kch	
Km	MENEFEE	Km	
Kpl	POINT LOOKOUT	Kpl	
Kt	TOCITO	Kt	
Kgn	GREENMORN	Kgn	



PHILLIPS PETROLEUM COMPANY
FARMINGTON AREA

S. J. 29-6 UNIT

Rio Arriba Co., N.M.

AGGREGATE NET COAL ISOLITH
OF THE FRUITLAND COAL

C1:5'

5-1-92

PHILLIPS PETROLEUM COMPANY
Commerciality Determination

San Juan 29-6 Unit #235
Fruitland Coal
E/2 Section 34-T29N-R6W
Rio Arriba County, New Mexico

Date of First Delivery: 08/10/93

Date of Commerciality Submittal:

Well Cost Data

Total Well Costs:	307,777		
Production Taxes & Royalty:	20.442175%	BLM	12.50
		Severance	3.750000
		School	4.000000
		Conservation	0.180000
		Ad Valorem	0.012175

Average Product Pricing

1994 1.46/ MCF

Estimated Gross Annual Production and Operating Expenses

Year	Gas (MMCF)	* Operating Expenses (\$)
1993 (5 mo)	30 (Actual)	2,932 (Actual)
1994	102	19,896
1995	97	19,896
1996	76	19,896
1997	61	19,896
1998	50	19,896
1999	42	19,896
2000	36	19,896
2001	31	19,896
2002	27	19,896
2003	23	19,896
2004	21	19,896
2005	19	19,896
2006	17	19,896
2007	15	19,896

* Operating Expenses were not escalated for inflation.

MEP81-01

PARPI - WELLZONE PRODUCTION BROWSE

Date: 7/05/94

YEARLY TOTALS

User: #AM3

Wellzone F8997 01 Yr: 1993 Mth: 01 Property: 650150 SAN JUAN 29-6 UNIT #
 Screen: 1 (1-Prod, 2-Inj, 3-Both) Well No: 000235
 Type: T (T-Total, D-Daily Avg) Field: BASIN
 Period: Y (M-Monthly, Y-Yearly, C-Cumm) Reserv: 20001 FRUITLAND COAL

ADJ	PRODUCED			DAYS		WELL	
FLG DATE	OIL (BBL)	GAS (MCF)	WATER (BBL)	PROD	OP	ST	CL TY
1993	0.00	30,203	0	144.00	144		
1994	0.00	26,471	0	151.00	151		

NO MORE DATA AVAILABLE

PA1=ICE PA2=Exit PF1=Help

PF3=End

PF11=GRAPH

Transfer-> _____

PF7=Backward

PF8=Forward

PF10=GRAND MENU

PF12=LOG GRAPH

8/93-5/94

INITIAL PROD / MONTH : 4588.0

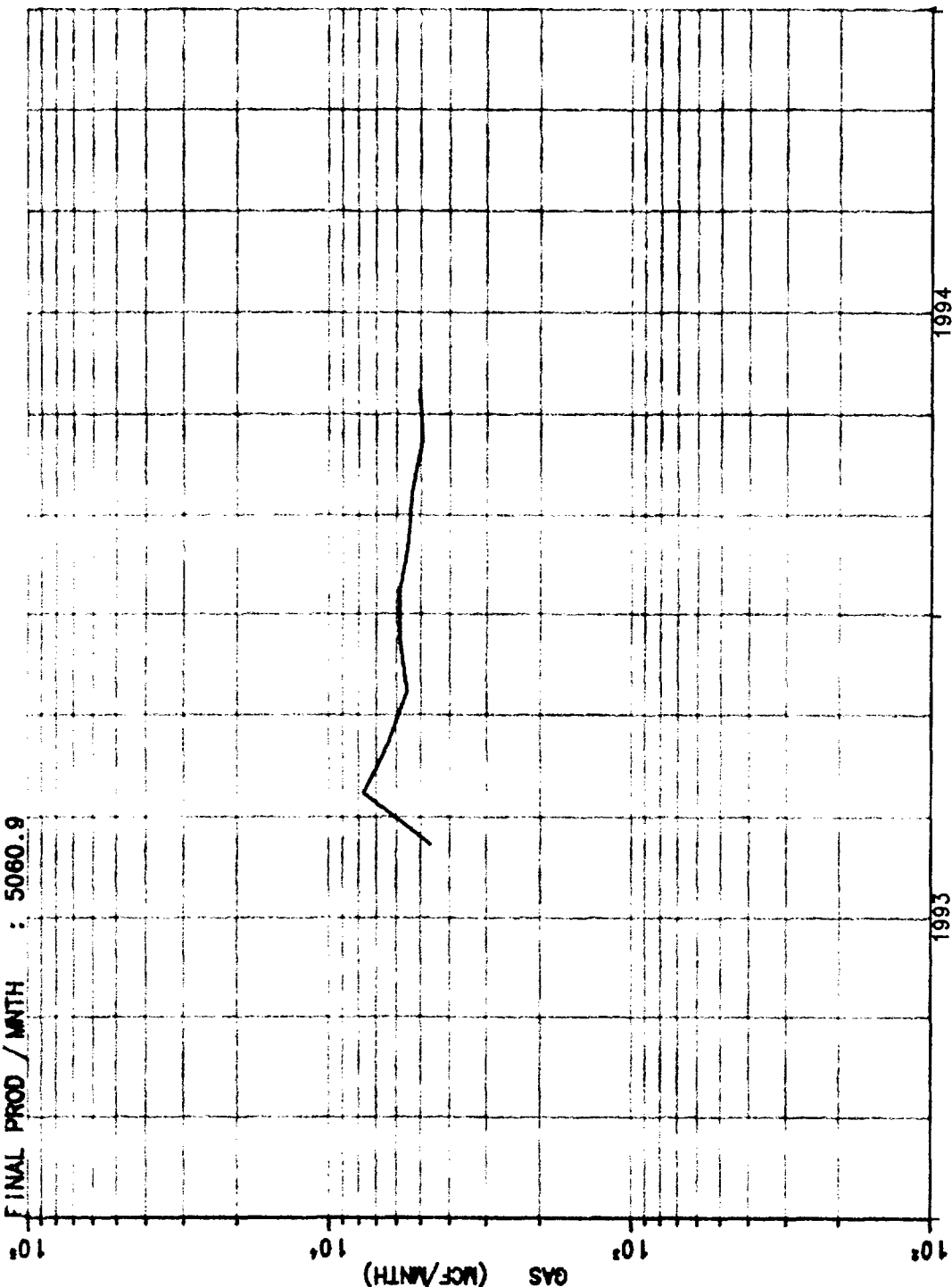
REMAINING LIFE : 0.83

0.00

CUM PRODUCTION : 56674.

FINAL PROD / MONTH : 5060.9

Current Cum
56674. MCF GAS



LEASE- 650150 : SAN JUAN 20-6 UNIT #235
RESVR- 001 : BASIN
WELL - 000236 PHS WELL PRODUCTION

F899701
ZONE-650150001000235 F899701
API-30039248230000

CASE : CD 29-6 #235 ** ECONOMICS CASE SUMMARY **

DESCRIPTION: COMMERCIALITY DETERMINATIONS

WORKING INT : 100.000%

CASE REVENUE INT : 79.558% OIL REV INT : 79.558%

GAS REV INT : 79.558%

CASE LIFE -FIRST MO-YR : 11-1992 PROD MO-YR : 8-1993

LAST YEAR : 2007

MEASURES OF MERIT

AARR (%) : 12.3
BREAKEVEN POINT (YRS.) : 4.5
PAYOUT (YRS.) : 3.7
NTER : 1.5
ECONOMIC LIFE (YRS.) : 12.4

RESERVES SUMMARY

OIL-GROSS MBBLS :
NET MBBLS :
NET REVENUE(M\$) :
BBL/DAY TO PAYOUT:
GAS GROSS MMCF : 647.0
NET MMCF : 514.7
NET REVENUE(M\$) : 751.5
MCF/DAY TO PAYOUT: 238.0

NET CASH FLOW SUMMARY(M\$)

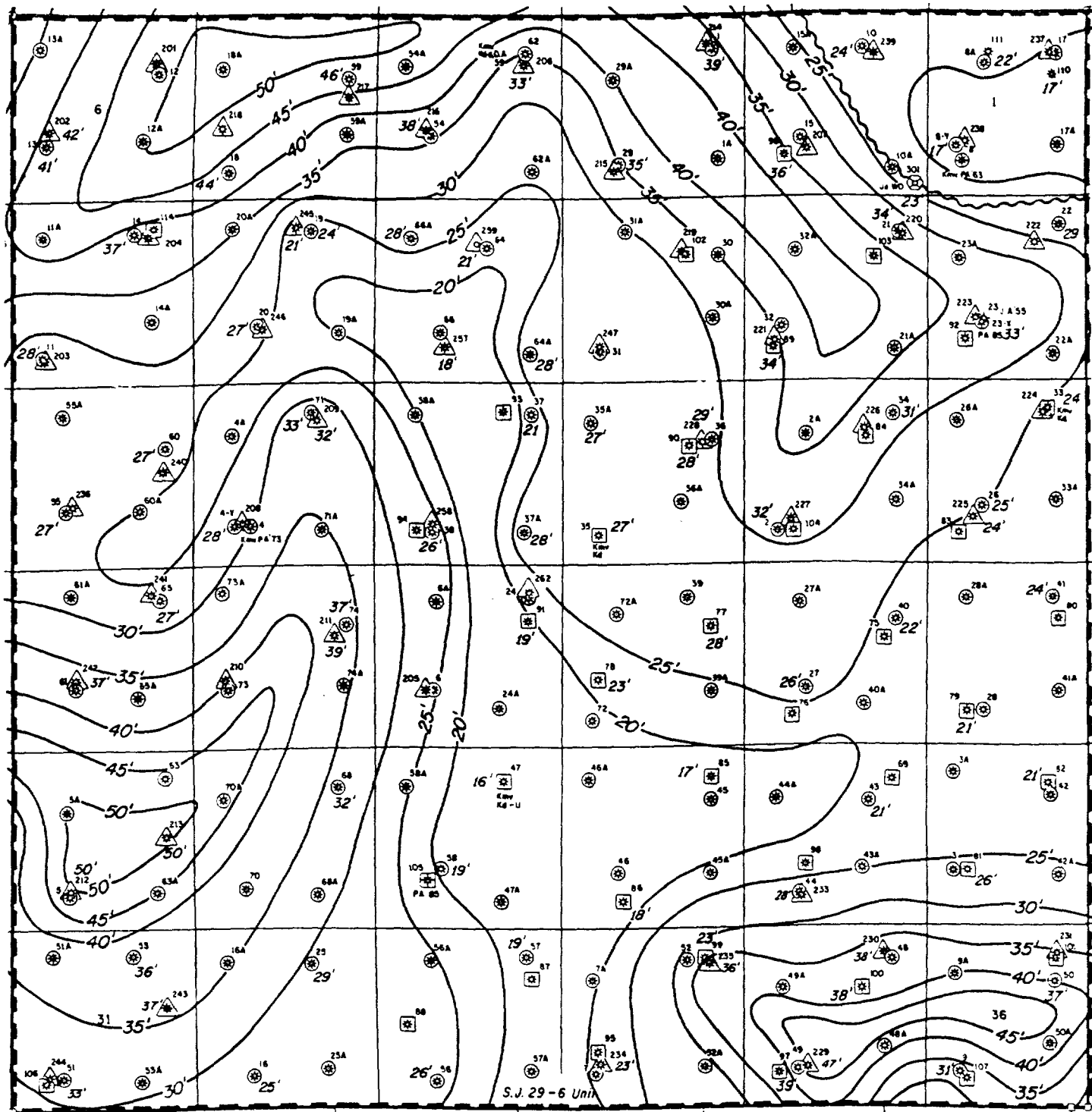
CAPITAL OUTLAY : 307.8
TOTAL REVENUE : 751.5
TOTAL EXPENSES : 281.5
IBRT : 470.0
CURRENT INCOME TAX :
SALVAGE :
CASH RETURNED : 470.0
CASH FLOW : 162.3
NET PRESENT VALUE (M\$) P.I.
@ 13.0 %: -5.9 .98
@ 10.0 %: 22.8 1.07
@ 8.0 %: 44.6 1.14
@ 6.0 %: 69.0 1.22

PRESS "ENTER" TO CONTINUE...

GOWEE_CASE_SUM

SWD AND GATHERING SYSTEM COST

The SWD facility and gathering system costs were allocated equally back to each well in the unit. The allocated costs were then charged against the well by including them in the operating cost in the fifteen year forecast.



T
29
N

R-6-W

PRODUCING INTERVAL

Kfm	FARMINGTON	Kfm	
Ks	KIRTLAND	Ks	
KT	FRUITLAND	KT	
Kpc	PICTURED CLIFFS	Kpc	
Ks	CHACRA	Ks	
Kiv	LA VENTANA	Kiv	
Kmv	MESAVERDE	Kmv	
Ks1	SALLUP	Ks1	
Kd	DAKOTA	Kd	
J4	ENTRADA	J4	
RPB	PARADOX	RPB	
SPC	BARKER CREEK	SPC	
M1	LEADVILLE	M1	
Kch	CLIFFHOUSE	Kch	
Ks	MENEFEE	Ks	
KPI	POINT LOOKOUT	KPI	
K1	TOCITO	K1	
Kgr	GREENHORN	Kgr	



PHILLIPS PETROLEUM COMPANY
FARMINGTON AREA

S.J. 29-6 UNIT

Rio Arriba Co., N.M.

AGGREGATE NET COAL ISOLITH
OF THE FRUITLAND COAL

CI = 5'

5-1-92

PHILLIPS PETROLEUM COMPANY
Commerciality Determination

San Juan 29-6 Unit #229
 Fruitland Coal
 W/2 Section 35-T29N-R6W
 Rio Arriba County, New Mexico

Date of First Delivery: 09/08/93

Date of Commerciality Submittal: _____

Well Cost Data

Total Well Costs:	<u>316,423</u>		
Production Taxes & Royalty:	<u>20.442175%</u>	BLM	<u>12.50</u>
		Severance	3.750000
		School	4.000000
		Conservation	0.180000
		Ad Valorem	0.012175

Average Product Pricing

1994 1.46/ MCF

Estimated Gross Annual Production and Operating Expenses

<u>Year</u>	<u>Gas (MMCF)</u>	<u>* Operating Expenses (\$)</u>
1993 (4 mo)	21 (Actual)	3,307 (Actual)
1994	102	16,709
1995	97	16,709
1996	76	16,709
1997	61	16,709
1998	50	16,709
1999	42	16,709
2000	36	16,709
2001	31	16,709
2002	27	16,709
2003	23	16,709
2004	21	16,709
2005	19	16,709
2006	17	16,709
2007	15	16,709

* Operating Expenses were not escalated for inflation.

MEP81-01

PARPI - WELLZONE PRODUCTION BROWSE
YEARLY TOTALS

Date: 7/06/94

User: #AM3

Wellzone F8926 01 Yr: 1993 Mth: 01 Property: 650080 SAN JUAN 29-6 UNIT #
 Screen: 1 (1-Prod, 2-Inj, 3-Both) Well No: 000229
 Type: T (T-Total, D-Daily Avg) Field: BASIN
 Period: Y (M-Monthly, Y-Yearly, C-Cumm) Reserv: 20001 FRUITLAND COAL

ADJ	PRODUCED			DAYS		WELL	
FLG DATE	OIL (BBL)	GAS (MCF)	WATER (BBL)	PROD	OP	ST	CL TY
1993	0.00	20,720	0	111.00	111		
1994	0.00	23,514	0	129.00	129		

NO MORE DATA AVAILABLE

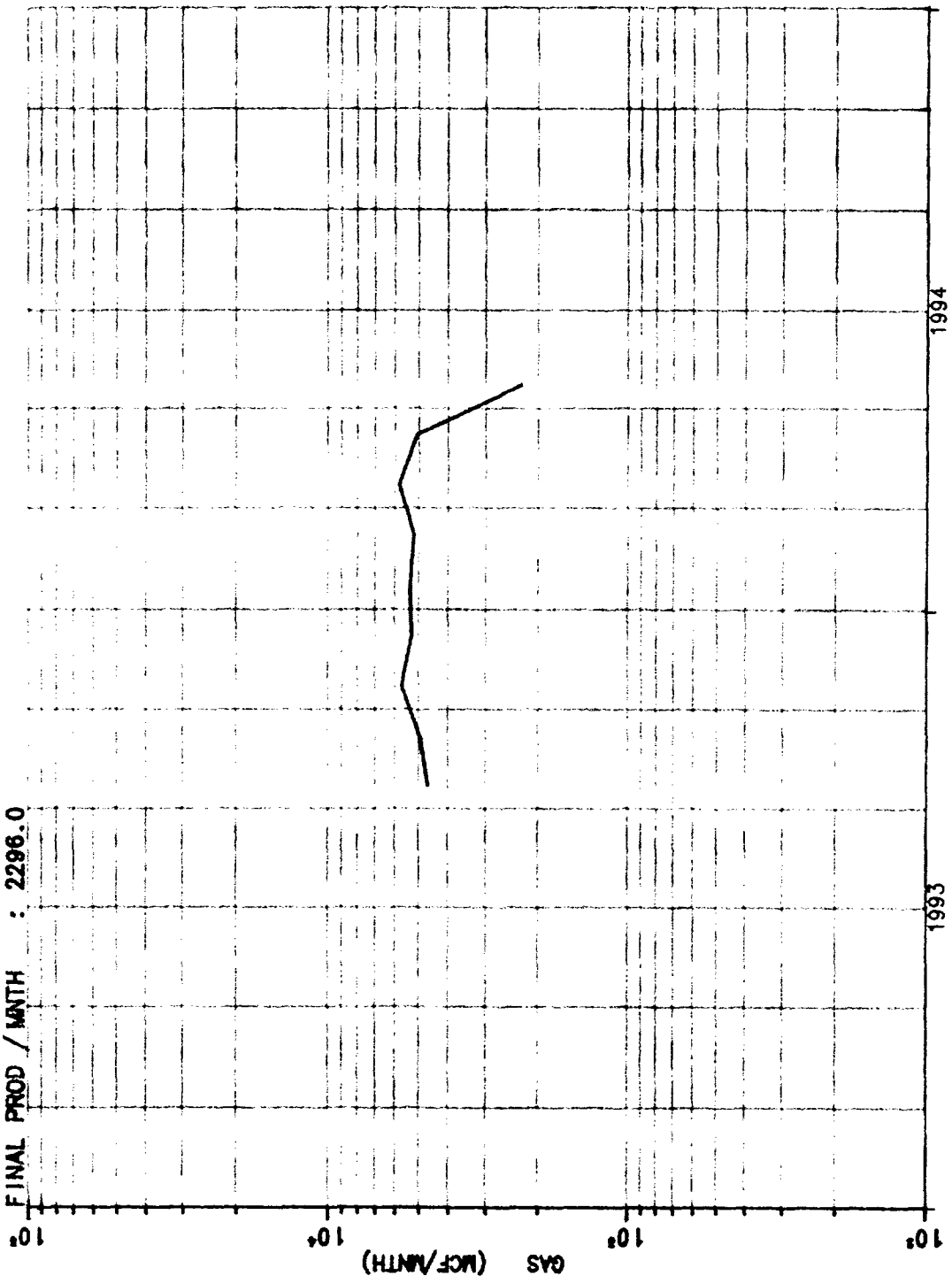
PA1=ICE PA2=Exit PF1=Help PF3=End PF11=GRAPH
 Transfer-> PF7=Backward PF8=Forward PF10=GRAND MENU PF12=LOG GRAPH

9/93-5/94

INITIAL PROD / MONTH : 4586.8
REMAINING LIFE : 0.75

CUM PRODUCTION : 44234.
FINAL PROD / MONTH : 2296.0

Current Cum
44234. MCF GAS



LEASE- 650080 : SAN JUAN 29-6 UNIT #229
RESVR- 001 : BASIN
WELL - 000229 PHS WELL PRODUCTION

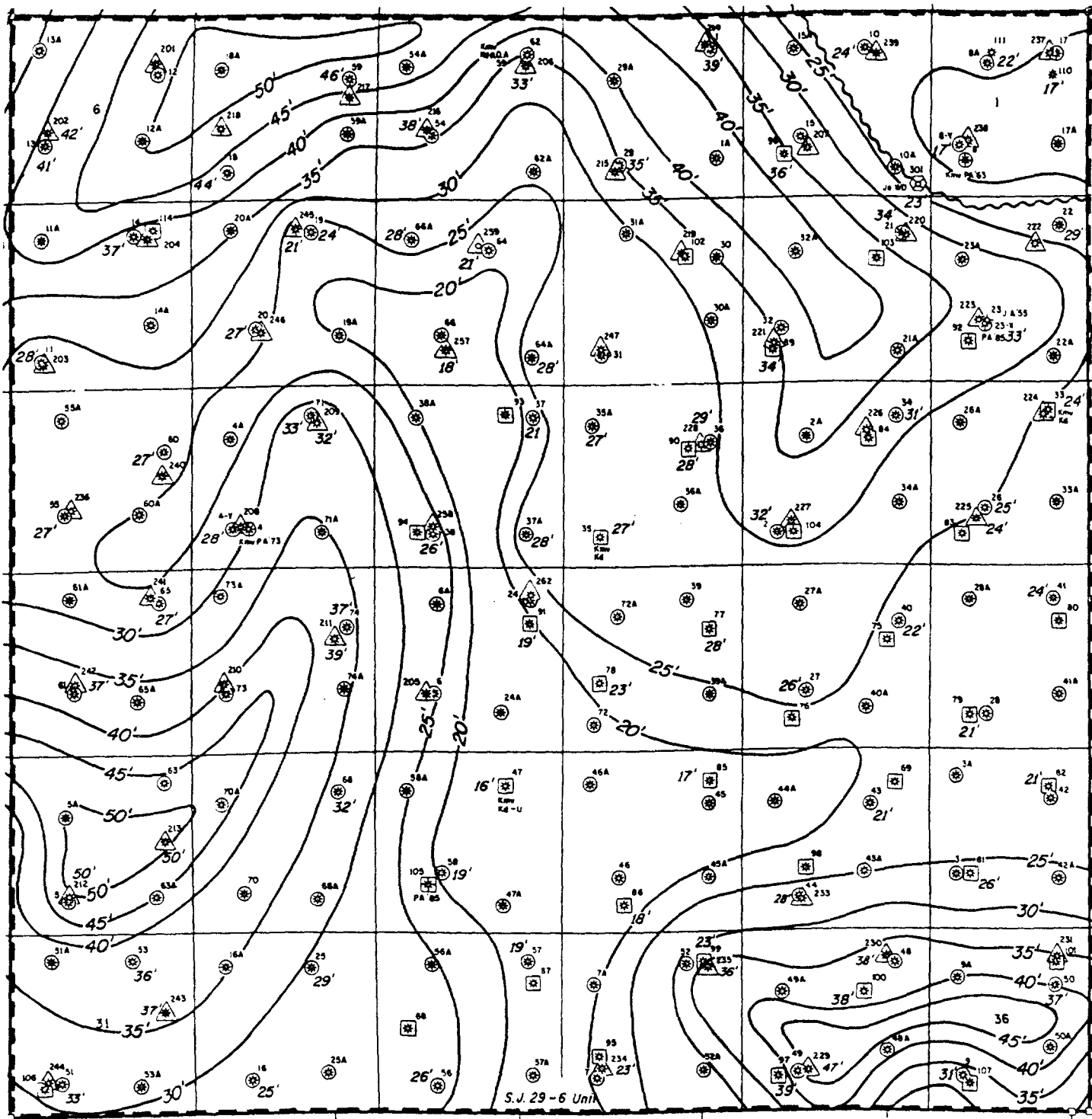
F892601
ZONE-650080001000229 F892601
API-30039246840000

CASE : CD 29-6 #229 ** ECONOMICS CASE SUMMARY **
 DESCRIPTION: COMMERCIALITY DETERMINATIONS WORKING INT : 100.000%
 CASE REVENUE INT : 79.558% OIL REV INT : 79.558% GAS REV INT : 79.558%
 CASE LIFE -FIRST MO-YR : 11-1992 PROD MO-YR : 9-1993 LAST YEAR : 2007

MEASURES OF MERIT		NET CASH FLOW SUMMARY (M\$)	
AARR (%)	: 12.4	CAPITAL OUTLAY	: 316.4
BREAKEVEN POINT (YRS.)	: 4.6	TOTAL REVENUE	: 741.1
PAYOUT (YRS.)	: 3.8	TOTAL EXPENSES	: 237.2
NTER	: 1.6	IBRT	: 503.8
ECONOMIC LIFE (YRS.)	: 14.3	CURRENT INCOME TAX	:
RESERVES SUMMARY		SALVAGE	:
OIL-GROSS MBBLS	:	CASH RETURNED	: 503.8
NET MBBLS	:	CASH FLOW	: 187.4
NET REVENUE (M\$)	:	NET PRESENT VALUE (M\$)	P.I.
BBL/DAY TO PAYOUT:	:	@ 13.0 %:	-6.1 .98
GAS_GROSS MMCF	: 638.0	@ 10.0 %:	26.0 1.08
NET MMCF	: 507.6	@ 8.0 %:	50.6 1.16
NET REVENUE (M\$)	: 741.1	@ 6.0 %:	78.5 1.25
MCF/DAY TO PAYOUT:	: 233.7		
PRESS "ENTER" TO CONTINUE...		GOWEE_CASE_SUM	

SWD AND GATHERING SYSTEM COST

The SWD facility and gathering system costs were allocated equally back to each well in the unit. The allocated costs were then charged against the well by including them in the operating cost in the fifteen year forecast.



R-6-W

PRODUCING INTERVAL

Kfm	FARMINGTON	Kfm
Ka	KIRTLAND	Ka
Kf	FRUITLAND	Kf
Kpc	PICTURED CLIFFS	Kpc
Kc	CHACRA	Kc
Klv	LA VENTANA	Klv
Kmv	MESAVERDE	Kmv
Kgl	GALLUP	Kgl
Kd	DAKOTA	Kd
J4	ENTRADA	J4
Py	PARADOX	Py
Pbc	BARKER CREEK	Pbc
M1	LEADVILLE	M1

Kch
Kln
Kpl

CLIFFHOUSE
MENESEE
POINT LOOKOUT

X1 TOCITO
X2 GREENHORN



PHILLIPS PETROLEUM COMPANY
FARMINGTON AREA

S.J. 29-6 UNIT
Rio Arriba Co., N.M.

AGGREGATE NET COAL ISOLITH
OF THE FRUITLAND COAL

C1:5'

5-1-92

PHILLIPS PETROLEUM COMPANY
Commerciality Determination

San Juan 29-6 Unit #233
Fruitland Coal
W/2 Section 26-T29N-R6W
Rio Arriba County, New Mexico

Date of First Delivery: 11/23/93

Date of Commerciality Submittal: _____

Well Cost Data

Total Well Costs:	224,863		
Production Taxes & Royalty:	20.442175%	BLM	12.50
		Severance	3.750000
		School	4.000000
		Conservation	0.180000
		Ad Valorem	0.012175

Average Product Pricing

1994 1.46/ MCF

Estimated Gross Annual Production and Operating Expenses

<u>Year</u>	<u>Gas (MMCF)</u>	<u>* Operating Expenses (\$)</u>
1993 (1 mo)	3 (Actual)	620 (Actual)
1994	20	
1995	20	
1996	20	
1997	20	
1998	20	
1999	20	
2000	20	
2001	20	
2002	20	
2003	20	
2004	20	
2005	20	
2006	20	
2007	20	

* Operating Expenses were not escalated for inflation.

SAN JUAN 29-6 UNIT #233

COMMERCIALITY DETERMINATION

The subject well was spudded on 12/02/90 in the west half of Section 26, T29N-R6W. After a total depth of 3241' was reached on 12/17/91, the well was completed openhole (3054'-3236') by means of cavitation. After cavitation, the well did not respond as desired. On 12/21/91, the gas tested at 100 MCF/D, while the water was too small to measure. Currently, the well is producing only 67 MCF/D with a trace of water from the openhole Fruitland Coal Formation.

Taking into account the subject well's past history and current rates, the well will obviously not be deemed commercial in the 29-6 Unit Participating Area. As a result, the economic evaluation and operating expenses were not prepared for this commerciality determination report.

MEP81-01

PARP1 - WELLZONE PRODUCTION BROWSE

Date: 7/06/94

YEARLY TOTALS

User: #AM3

Wellzone F8A06 01 Yr: 1993 Mth: 01 Property: 650183 SAN JUAN 29-6 UNIT #
 Screen: 1 (1-Prod, 2-Inj, 3-Both) Well No: 000233
 Type: T (T-Total, D-Daily Avg) Field: BASIN
 Period: Y (M-Monthly, Y-Yearly, C-Cumm) Reserv: 20001 FRUITLAND COAL

ADJ	PRODUCED			DAYS		WELL	
FLG DATE	OIL (BBL)	GAS (MCF)	WATER (BBL)	PROD	OP	ST	CL TY
1993	0.00	3,071	0	39.00	39		
1994	0.00	9,622	0	143.00	143		

NO MORE DATA AVAILABLE

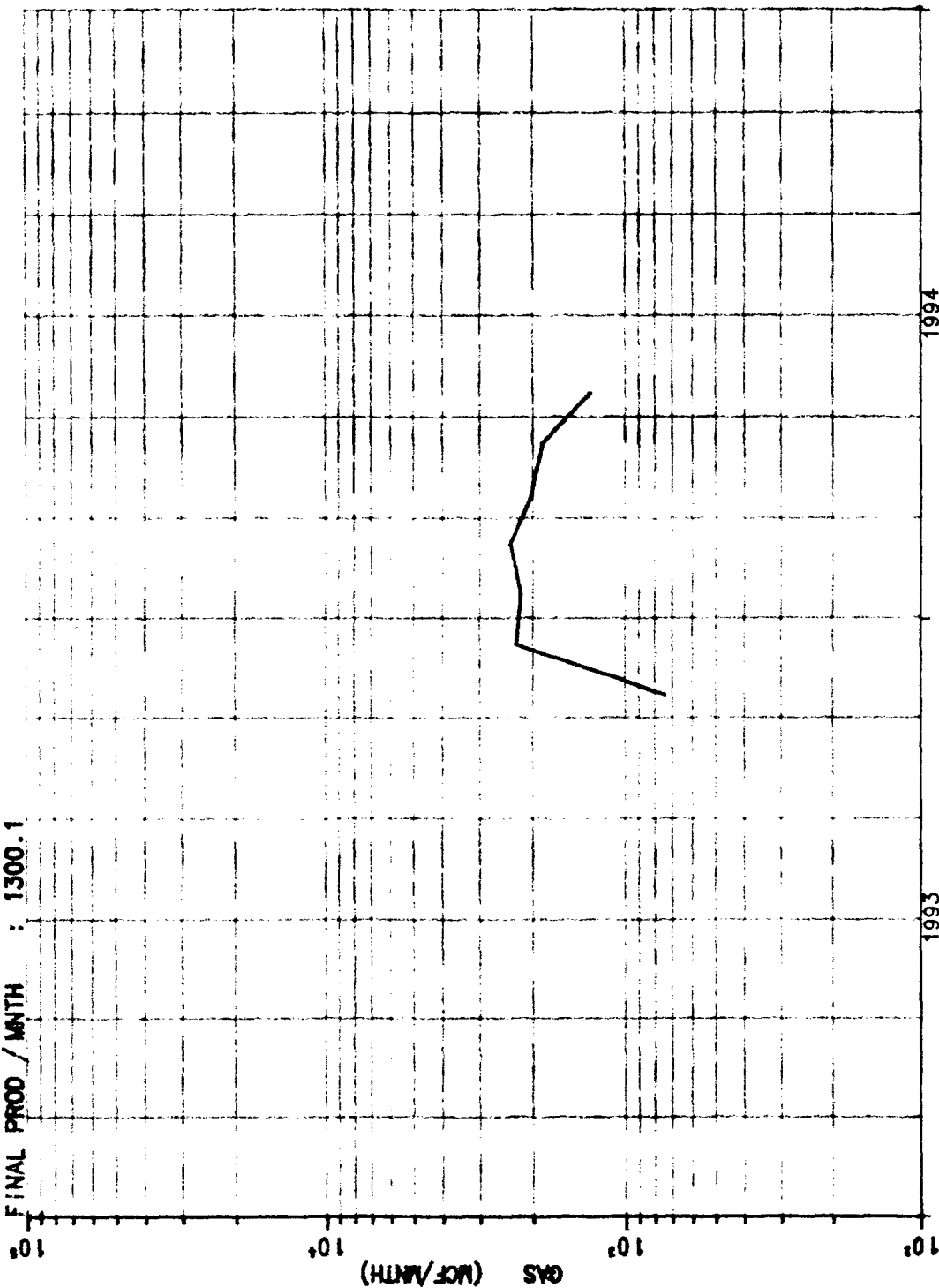
PA1=ICE PA2=Exit PF1=Help PF3=End PF11=GRAPH
 Transfer-> PF7=Backward PF8=Forward PF10=GRAND MENU PF12=LOG GRAPH

11/93-5/94

Current Cum
12693. MCF GAS

INITIAL PROD / MNTH : 727.0
REMAINING LIFE : 0.58

CUM PRODUCTION : 12693.
FINAL PROD / MNTH : 1300.1

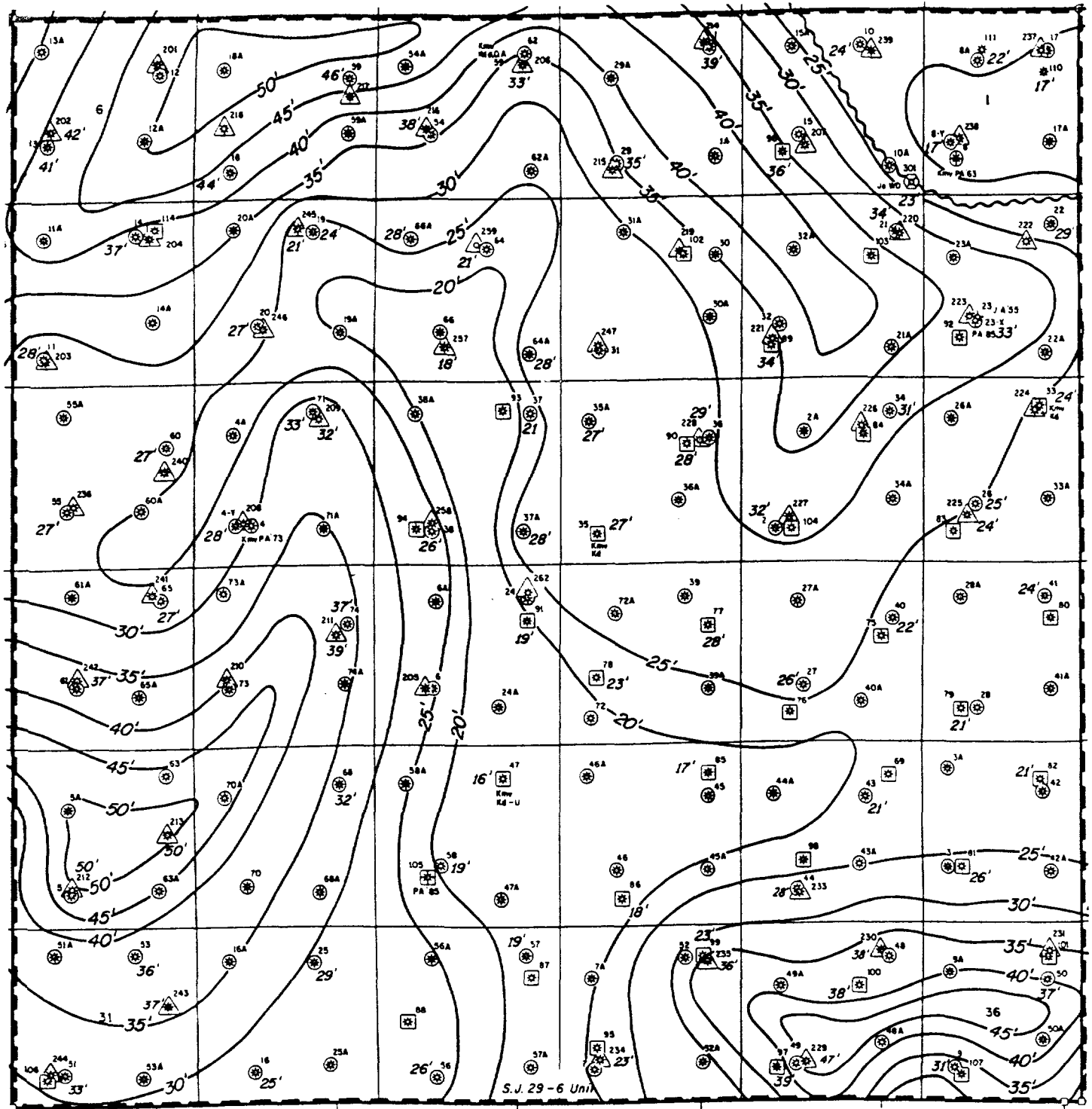


LEASE- 650183 : SAN JUAN 29-6 UNIT #233
RESVR- 001 : BASIN
WELL - 000233 PHS WELL PRODUCTION

F8A0601
ZONE-650183001000233 F8A0601
API-30039247280000

SWD AND GATHERING SYSTEM COST

The SWD facility and gathering system costs were allocated equally back to each well in the unit. The allocated costs were then charged against the well by including them in the operating cost in the fifteen year forecast.



T
29
N

R - 6 - W

PRODUCING INTERVAL

- | | | | |
|-----|---------------------------------|-----|---|
| Kfm | FARMINGTON | Kfm | |
| Ka | KIRTLAND | Ka | |
| △ | FRUITLAND | Kf | |
| ☆ | PICTURED CLIFFS | Koc | |
| ⊙ | CHACRA | Kc | |
| ⊗ | LA VENTANA | Klv | |
| ⊕ | MESAVERDE | Kmv | |
| ⊛ | GALLUP | Kg1 | <div style="display: inline-block; vertical-align: middle;"> <div style="display: flex; align-items: center;"> <div style="margin-right: 5px;">Kch</div> <div>CLIFFHOUSE</div> </div> <div style="display: flex; align-items: center;"> <div style="margin-right: 5px;">Kp</div> <div>POINT LOOKOUT</div> </div> </div> |
| ⊞ | DAKOTA | Kd | |
| ⊟ | ALL PRODUCTION BELOW CRETACEOUS | | |



PHILLIPS PETROLEUM COMPANY
FARMINGTON AREA

S.J. 29-6 UNIT

Rio Arriba Co., N.M.

AGGREGATE NET COAL ISOLITH
OF THE FRUITLAND COAL

C1 = 5'

5-1-92



PHILLIPS PETROLEUM COMPANY

FARMINGTON, NEW MEXICO 87401
5525 HWY. 64 NBU 3004

August 17, 1994

United States Department of Interior
Bureau of Land Management
Farmington Resource Area
1235 Laplata Highway
Farmington, New Mexico 87401
(4 copies enclosed)

State of New Mexico
Commissioner of Public Lands
Attn: Mr. Floyd O. Prando
P. O. Box 1148
Santa Fe, New Mexico 87504-1148
(2 copies enclosed)

State of New Mexico
Oil Conservation Division
Attn: Mr. William J. Lemay
State Land Office Building
P. O. Box 2088
Santa Fe, New Mexico 87504
(2 copies enclosed)

Re: San Juan 29-6 Unit
#14-08-001-439
Fruitland Participating Area
Expansions
Sixth Expansion - eff. 08/01/90
Seventh Expansion - eff. 09/01/90
Eighth Expansion - eff. 01/01/91
Ninth Expansion - eff. 03/01/91
Tenth Expansion - eff. 04/01/91
Non-Commercial Well
Notice of Completion of
SJ 29-6 Unit Wells 228 and 257
Rio Arriba County, New Mexico
GF-5396

Gentlemen:

Pursuant to Section 11 (a) of the San Juan 29-6 Unit Agreement, #14-08-001-439, approved December 5, 1952, Phillips Petroleum Company, as Unit Operator, determined on the dates indicated below that the wells listed below are capable of producing unitized substances in paying quantities from the Fruitland Formation. Therefore, application for the Sixth Expansion, Seventh Expansion, Eighth Expansion, Ninth Expansion and Tenth Expansion of the Participating Area established for the Fruitland formation is submitted for your review as follows:

Sixth Expanded Participating Area - Effective August 1, 1990

<u>Drilling Block</u>	<u>New Areas</u>	<u>Well Number</u>
E/2 Section 12-29N-6W Lots 1, 3, 4, 5, 6, W/2 SE/4, Part of Tr. 37 (E/2)	229.85	222
E/2 Section 8-29N-6W	320.00	*245

*Intervening Drilling Block

San Juan 29-6 Unit
 #14-08-001-439
 Fruitland Participating Area Application
 Sixth Expansion - Effective 08/01/90
 Seventh Expansion - Effective 09/01/90
 Eighth Expansion - Effective 01/01/91
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The San Juan 29-6 Unit #222 well was completed July 7, 1990. The Fruitland Coal formation was tested on July 7, 1990, with cumulative gas production of 1,663,807 mcf through May 31, 1994. The spacing unit for this well is described as Lots 1, 3, 4, 5, 6, W/2 SE/4 (E/2) Section 12-29N-6W, containing 229.85 acres.

Intervening Drilling Block
Notice of Completion of Additional Well

The San Juan 29-6 #245 well is an Intervening Drill Block (IDB) by virtue of the San Juan 29-6 Unit #209 well (E/2 Sec. 17), located directly south, as the Initial Fruitland Participating Area and the San Juan 29-6 #217 (E/2 Sec. 5), located directly north, which was tested during completion operations on July 16, 1990 and included in the Fifth Expansion of the Fruitland Formation as an intervening drilling block. The spacing unit for the #245 well is described as the E/2 Section 8-29N-6W containing 320 acres. This well was completed January 3, 1991 and has cumulative production of 1,493,604 mcf through May 31, 1994.

Seventh Expanded Participating Area - Effective September 1, 1990

<u>Drilling Block</u>	<u>New Areas</u>	<u>Well Number</u>
W/2 Section 18-29N-6W	320.00	236
E/2 Section 18-29N-6W	320.00	*240

*Intervening Drilling Block

The San Juan 29-6 Unit #236 well was completed August 3, 1990. The Fruitland Coal formation tested on August 2, 1990, with cumulative gas production of 613,011 mcf through May 31, 1994. The spacing unit for this well is described as W/2 Section 18-29N-6W, containing 320 acres.

Intervening Drilling Block
Notice of Completion of Additional Well

The San Juan 29-6 Unit #240 well is an Intervening Drill Block under the terms of the San Juan 29-6 Unit Agreement. The spacing unit for this well is described as the E/2 Section 18-29N-6W, containing 320 acres. The #240 well was completed February 9, 1991, with cumulative gas production of 835,225 mcf through May 31, 1994.

Eighth Expanded Participating Area - Effective January 1, 1991

<u>Drilling Block</u>	<u>New Areas</u>	<u>Well Number</u>
Lots 10, 11, S/2 NW/4, SW/4 (W/2) Section 6-29N-6W	319.65	202
E/2 Section 7-29N-6W	320.00	204
W/2 Section 7-29N-6W	320.00	*203

*Intervening Drill Block

San Juan 29-6 Unit
 #14-08-001-439
 Fruitland Participating Area Application
 Sixth Expansion - Effective 08/01/90
 Seventh Expansion - Effective 09/01/90
 Eighth Expansion - Effective 01/01/91
 Ninth Expansion - Effective 03/01/91
 Tenth Expansion - Effective 04/01/91
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The San Juan 29-6 Unit #202 well was completed December 6, 1990. The Fruitland Coal formation was tested on December 4, 1990, with cumulative gas production of 260,519 mcf through May 31, 1994. The spacing unit for this well is described as Lots 10, 11, S/2 NW/4, SW/4 (W/2) Section 6-29N-6W, containing 319.65 acres.

The San Juan 29-6 Unit #204 well was completed December 17, 1990. The Fruitland Coal formation was tested on December 16, 1990, with cumulative gas production of 208,261 mcf through May 31, 1994. The spacing unit for this well is described as E/2 Section 7-29N-6W, containing 320 acres.

Intervening Drilling Block
Notice of Completion of Additional Well

The San Juan 29-6 Unit #203 well is an Intervening Drill Block under the terms of the San Juan 29-6 Unit Agreement. The spacing unit for this well is described as W/2 Section 7-29N-6W, containing 320 acres. The #203 well was completed January 23, 1991. The Fruitland Coal formation was tested January 21, 1991, with cumulative gas production of 896,476 through May 31, 1994.

Ninth Expanded Participating Area - Effective March 1, 1991

<u>Drilling Block</u>	<u>New Acres</u>	<u>Well Number</u>
Lots 5, 6, 9, 10, 11, 14, 15, SW/4 NE/4, Part of Tract 37 (E/2) Section 1-29N-6W	232.73	237
E/2 Section 19-29N-6W	320.00	241
Lots 7, 8, 12, 13, S/2 NW/4 W/2 SW/4 Part of Tract 37 (W/2) Section 1-29N-6W	319.54	238
Lots 5, 6, S/2 NE/4, SE/4 (E/2) Section 2-29N-6W	319.23	*239

*** Intervening Drilling Block**

The San Juan 29-6 Unit #237 well was completed February 2, 1991. The Fruitland Coal formation was tested on February 14, 1991, with cumulative gas production of 1,022,981 mcf through May 31, 1994. The spacing unit for this well is described as Lots 5, 6, 9, 10, 11, 14, 15, SW/4 NE/4, Part of Tract 37 (E/2) Section 1-29N-6W containing 232.73 acres.

The San Juan 29-6 Unit #241 well was completed February 21, 1991. The Fruitland Coal formation tested on February 19, 1991, with cumulative gas production of 439,513 mcf through May 31, 1994. The spacing unit for this well is described as E/2 Section 19-29N-6W, containing 320 acres.

The San Juan 29-6 Unit #238 well was completed February 27, 1991. The Fruitland Coal formation tested on February 26, 1991, with cumulative gas production of 1,039,708 mcf through May 31, 1994. The spacing unit for this well is described as Lots 7, 8, 12, 13, S/2 NW/4, W/2 SW/4, Part of Tract 37 (W/2) Section 1-29N-6W, containing 319.54 acres.

San Juan 29-6 Unit
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Intervening Drilling Block
Notice of Completion of Additional Wells

The San Juan 29-6 Unit #239 well is an Intervening Drilling Block under the terms of the San Juan 29-6 Unit Agreement. The spacing unit for this well is described as Lots 5, 6, S/2 NE/4, SE/4 (E/2) Section 2-29N-6W, containing 319.23 acres. The #239 well was completed March 9, 1991. The Fruitland Coal formation was tested March 8, 1991, with cumulative gas production of 975,913 mcf through May 31, 1994.

Tenth Expanded Participating Area - Effective April 1, 1991

<u>Drilling Block</u>	<u>New Areas</u>	<u>Well Number</u>
W/2 Section 20-29N-6W	320.00	210
W/2 Section 19-29N-6W	320.00	242
Lots 1-4, W/2 E/2 Section 13-29N-6W	232.16	224
W/2 Section 21-29N-6W	320.00	205
E/2 Section 20-29N-6W	320.00	*211

***Intervening Drilling Block**

The San Juan 29-6 Unit #210 well was completed March 5, 1991. The Fruitland Coal formation was tested on March 4, 1991, with cumulative production of 83,619 mcf through May 31, 1994. The spacing unit for this well is described as W/2 Section 20-29N-6W containing 320 acres.

The San Juan 29-6 Unit #242 well was completed March 18, 1991. The Fruitland Coal formation was tested on March 17, 1991 with cumulative gas production of 376,477 mcf through May 31, 1994. The spacing unit for this well is described as W/2 Section 19-29N-6W, containing 320 acres.

The San Juan 29-6 Unit #224 well was completed March 20, 1991. The Fruitland Coal formation was tested on March 19, 1991, with cumulative gas production of 1,470,053 mcf through May 31, 1994. The spacing unit for this well is described as Lots 1-4, W/2 E/2 (E/2) Section 13-29N-6W, containing 232.16 acres.

The San Juan 29-6 Unit #205 well was completed March 28, 1991. The Fruitland Coal formation was tested on March 26, 1991, with cumulative gas production of 260,654 mcf through May 31, 1994. The spacing unit for this well is described as W/2 Section 21-29N-6W, containing 320 acres.

Intervening Drilling Block
Notice of Completion of Additional Wells

The San Juan 29-6 Unit #211 well is an Intervening Drilling Block under the terms of the San Juan 29-6 Unit Agreement. The spacing unit for this well is described as E/2 Section 20-29N-6W, containing 320 acres. The #211 well was completed October 18, 1992. The Fruitland Coal formation was tested on October 18, 1992, with cumulative gas production of 190,741 mcf through May 31, 1994.

San Juan 29-6 Unit
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Sixth Expansion - Effective 08/01/90
Seventh Expansion - Effective 09/01/90
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Ninth Expansion - Effective 03/01/91
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Enclosed herewith are Schedules VII, VIII, IX, X and XI for the Sixth through Tenth Expanded Participating Areas for the Fruitland formation of the San Juan 29-6 Unit area. These schedules describe the Participating Areas and indicate the percentages of unitized substances allocated to the unit tracts according to the Fruitland ownership of such tracts.

Notice of Completion of Non-Commercial Wells

Pursuant to provisions of Section 11(a) of the San Juan 29-6 Unit Agreement, Phillips Petroleum Company has determined that the following wells are not capable of producing unitized substances in paying quantities from the Fruitland formation.

The San Juan 29-6 Unit #228 Well, located 1720' FNL and 1242' FEL of Section 14-T29N-R6W, was spudded April 25, 1990. After a total depth of 3640' was reached on May 16, 1990, the well was initially completed open hole by means of cavitation with no measurable gas production. Since the coalseams were not cleated, the open hole interval 3470' - 3640' was fracture stimulated on May 21, 1990 with 820 barrels of gelled water; 16,600 pounds of 40/70 sand and 105,700 pounds of 12/20 sand; and 1247 MSCF of nitrogen at 60% quality. The fracture treatment produced very limited results in an extremely tight coalseam formation. The well flow tested 214 MCFGPD to TSTM after one hour. A CIBP was set in the 7 inch casing above the Fruitland Coal open hole interval. The well was completed October 29, 1992 and first delivered August 27, 1993 with cumulative gas production of 2,710 MCF through May 31, 1994. The total operating costs during this same period was \$10,049. Based on the well's current performance this well is not capable of producing unitized substances in paying quantities.

The San Juan 29-6 Unit #257 Well, located 981' FSL and 2020' FWL Section 9-T29N-R6W, was spudded December 21, 1990. After reaching a total depth of 3633', the well was initially completed open hole by means of cavitation with flow tested gas production to small to measure with 75 BWPD on January 10, 1991. The Drake #26 rig moved on location December 9, 1992. A 4½ liner was set at 3623' with the top of the liner at 3345'. A bridge plug was set at 3635' and the Fruitland Coal seams were perforated with 2 SPF from 3486' to 3609' for a total of 86 shots. The well was fracture stimulated on December 9, 1992 with 30,156 gallons of 30 ppg gelled water, 163,200 lbs of 16/30 Brady sand, and 1,370,389 SCF of nitrogen at 70% quality. After fracture stimulation the well tested 83 MCFGPD with 12 BWPD. The well was first delivered August 27, 1993 with cumulative gas production of 25,600 MCF through May 31, 1994. The total operating costs for this same period was \$18,332. Based on the well's current performance this well is not capable of producing unitized substances in paying quantities.

Unless this application is disapproved or contested in whole or in part the Sixth Expanded, Seventh Expanded, Eighth Expanded, Ninth Expanded and Tenth Expanded Participating Areas are effective August 1, 1990, September 1, 1990, January 1, 1991, March 1, 1991 and April 1, 1991, respectively. Copies of this application with enclosures are being sent to the working interest owners on the attached sheet. This application completes operator filings for the referenced wells

San Juan 29-6 Unit
#14-08-001-439
Fruitland Participating Area Application
Sixth Expansion - Effective 08/01/90
Seventh Expansion - Effective 09/01/90
Eighth Expansion - Effective 01/01/91
Ninth Expansion - Effective 03/01/91
Tenth Expansion - Effective 04/01/91
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submitted under our August 23, 1993 and June 16, 1994 letters and is consistent with those findings set forth in letters from the Bureau of Land Management to this office dated December 7, 1993 and July 12, 1994.

Very truly yours,

PHILLIPS PETROLEUM COMPANY



A. J. Kieke, CPL
Area Landman
San Juan Basin
(505) 599-3410

cc: Working Interest Owners
J. W. Taylor (r) Supervisors

**SAN JUAN 29-6 UNIT
WORKING INTEREST OWNERS**

American West Gas - 1993 L.L.C.

Amoco Production Company

Bolack Minerals Company

Elizabeth Calloway

Central Resources, Inc.

Conoco Inc.

Mrs. Veva Jean Gibbard

First National Bank of Fort Worth
Trustee - Eula M. Johnston

James J. Johnston

V. A. Johnston Family Trust

Koch Exploration Company

James E. McElvain, Executor
Estate of Carl McElvain

T.H. McElvain Oil & Gas

Meridian Oil Production Inc.

Petrox, Inc.

RKC, Inc.

James M. Raymond
Maydell Miller Mast Trust
Corinne Miller Gay Trust

Tipperary Oil & Gas Corporation

Fred E. Turner, Jr.

J. Glen Turner, Jr.

John L. Turner

Mary Francis Turner, Jr.

Unit Drilling & Exploration

Valero Coal Company

Vaughan-McElvain Energy

WHAM, a Partnership

Williams Production Company

The Wiser Oil Company

PHILLIPS PETROLEUM COMPANY
SCHEDULE VIII
THE 007 EXPANDED PARTICIPATING AREA FOR FRUITLAND COAL FORMATION
SAN JUAN 29-6 UNIT AREA

DATE 07/27/94

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PERCENT ACTUAL PARTICIPATION
E-289-43	29N 6W	239.13		TRACT: 017C			3.792957
	SEC. 2	LOTS 7 & 8 S/2 NW/4, W/2 SW/4	ORRI: ROYALTY: WORKING INTEREST: PHILLIPS-SAN JUAN PARTNERS, L.P. WILLIAMS PRODUCTION COMPANY		5.000000 12.500000 67.650000 14.850000	5.000000 12.500000 67.650000 14.850000	
		TOTAL			100.000000	100.000000	

REMARKS: SAN JUAN 29-6 UNIT #207

E-289-43	29N 6W	80.00		TRACT: 017D			1.268919
	SEC. 2	E/2 SW/4	ORRI: ROYALTY: WORKING INTEREST: PHILLIPS-SAN JUAN PARTNERS, L.P. WILLIAMS PRODUCTION COMPANY		5.000000 12.500000 67.650000 14.850000	5.000000 12.500000 67.650000 14.850000	
		TOTAL			100.000000	100.000000	

REMARKS: SAN JUAN 29-6 UNIT #207

FEE	29N 6W	437.78		TRACT: 019			6.943841
	SEC. 3	13.58 ACRES OF TR 40 IN THE NW/4	ORRI: ROYALTY: WORKING INTEREST: PHILLIPS-SAN JUAN PARTNERS, L.P. WILLIAMS PRODUCTION COMPANY		4.000000 12.500000 68.470000 15.030000	4.000000 12.500000 68.470000 15.030000	
	SEC. 3	67.53 ACRES OF TR 38 IN THE NW/4					
	SEC. 4	100.68 ACRES BEING PART OF TR 40 IN NE/4					
	SEC. 4	16.91 ACRES IN TR 40 IN THE NW/4					
		TOTAL			100.000000	100.000000	

REMARKS: SAN JUAN 29-6 UNIT #206
SAN JUAN 29-6 UNIT #214
SAN JUAN 29-6 UNIT #215
SAN JUAN 29-6 UNIT #216

PHILLIPS PETROLEUM COMPANY
SCHEDULE VIII
THE 007 EXPANDED PARTICIPATING AREA FOR FRUITLAND COAL FORMATION
SAN JUAN 29-6 UNIT AREA

DATE 07/27/94

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PERCENT ACTUAL PARTICIPATION
FEE							
29N 6W	PART OF TR 42 IN THE SE/4	156.25		TRACT: 020			2.478357
SEC. 3	84.13 ACRES BEING		ORRI:		4.000000	4.000000	
SEC. 10	PART OF TR 42 IN THE NE/4		ROYALTY:		12.500000	12.500000	
SEC. 11	9.66 ACRES BEING		WORKING INTEREST:		68.470000	68.470000	
	PART OF TR 42 IN THE NW/4		PHILLIPS-SAN JUAN PARTNERS, L.P.		15.030000	15.030000	
			WILLIAMS PRODUCTION COMPANY				
TOTAL					100.000000	100.000000	
REMARKS:	SAN JUAN 29-6 UNIT #214 SAN JUAN 29-6 UNIT #219 SAN JUAN 29-6 UNIT #221						
FEE							
29N 6W	N/2 NW/4	80.00		TRACT: 022			1.268919
SEC. 18			ORRI:		5.000000	5.000000	
			ROYALTY:		12.500000	12.500000	
			WORKING INTEREST:		82.500000	82.500000	
			SOUTHLAND ROYALTY COMPANY				
TOTAL					100.000000	100.000000	
REMARKS:	SAN JUAN 29-6 UNIT #236						
FEE							
29N 6W	SE/4 SE/4	40.00		TRACT: 023			0.634459
SEC. 30			ORRI:		0.000000	0.000000	
			ROYALTY:		12.500000	12.500000	
			WORKING INTEREST:		87.500000	87.500000	
			WILLIAMS PRODUCTION COMPANY				
TOTAL					100.000000	100.000000	
REMARKS:	SAN JUAN 29-6 UNIT #213						

PHILLIPS PETROLEUM COMPANY
SCHEDULE VIII
THE 007 EXPANDED PARTICIPATING AREA FOR FRUITLAND COAL FORMATION
SAN JUAN 29-6 UNIT AREA

DATE 07/27/94

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRIILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PERCENT ACTUAL PARTICIPATION
FEE							
29N 6W		160.00		TRACT: 025			2.537838
SEC. 4	SW/4 NW/4, NW/4 SW/4 SE/4 NE/4, NE/4 SE/4		ORRI: ROYALTY: WORKING INTEREST: CENTRAL RESOURCES, INC. PETROX CONSULTING, INC. TIPPERARY OIL & GAS CORP. AMERICAN WEST GAS-1993 L.L.C. R.K.C., INC.		5.000000 12.500000 36.029124 5.156250 19.723003 8.250000 13.341623	5.000000 12.500000 36.029124 5.156250 19.723003 8.250000 13.341623	
REMARKS:	SAN JUAN 29-6 UNIT #216 SAN JUAN 29-6 UNIT #217						
FEE							
29N 6W		266.47		TRACT: 026			4.226610
SEC. 4	13.53 ACRES IN NE/4 OF TR 41 SW/4 SE/4 LOTS 6, 7, 11, 12, S/2 SW/4 PLUS 51.7 ACRES BEING PART OF TR 41 IN W/2		ORRI: ROYALTY: WORKING INTEREST: PHILLIPS-SAN JUAN PARTNERS, L.P. WILLIAMS PRODUCTION COMPANY		0.000000 12.500000 71.750000 15.750000	0.000000 12.500000 71.750000 15.750000	
REMARKS:	SAN JUAN 29-6 UNIT #206 SAN JUAN 29-6 UNIT #216						
FEE							
29N 6W		280.00		TRACT: 027			4.441216
SEC. 18	S/2 NW/4, E/2 SW/4, SW/4 NE/4, W/2 SE/4		ORRI: ROYALTY: WORKING INTEREST: PHILLIPS-SAN JUAN PARTNERS, L.P. WILLIAMS PRODUCTION COMPANY T. H. MCELVAIN OIL & GAS JAMES M. RAYMOND MAYDELL MILLER MAST TRUST CORINNE MILLER GAY TRUST		0.000000 12.500000 35.875000 7.875000 21.875000 18.229166 1.822917 1.822917	0.000000 12.500000 35.875000 7.875000 21.875000 18.229166 1.822917 1.822917	
REMARKS:	SAN JUAN 29-6 UNIT #236 SAN JUAN 29-6 UNIT #240						
TOTAL					100.000000	100.000000	

DATE 07/27/94

PHILLIPS PETROLEUM COMPANY
SCHEDULE VIII
RECAPITULATION

DESCRIPTION OF COMMITTED LANDS IN PARTICIPATING AREA:		DESCRIPTION OF NON-COMMITTED LANDS IN PARTICIPATING AREA:	
TOWNSHIP 29N, RANGE 6W			
SECTION 2	: LOTS 7 & 8, S/2 NW/4, SW/4		
SECTION 3	: ALL		
SECTION 4	: ALL		
SECTION 5	: ALL		
SECTION 6	: LOTS 8 & 9, S/2 NE/4, SE/4		
SECTION 8	: ALL		
SECTION 10	: 84.13 ACRES BEING PART OF TR 42 IN NE/4		
SECTION 10	: LOTS 1 - 4, SE/4		
SECTION 11	: ALL		
SECTION 12	: ALL		
SECTION 17	: ALL		
SECTION 18	: ALL		
SECTION 30	: E/2		
TOTAL COMMITTED:	6304.58	TOTAL ACRES NON-COMMITTED:	0.00
TOTAL NUMBER OF ACRES IN PARTICIPATING ARE	6304.58		

DATE 07/27/94

PHILLIPS PETROLEUM COMPANY
SCHEDULE IX
THE 008 EXPANDED PARTICIPATING AREA FOR FRUITLAND COAL FORMATION
SAN JUAN 29-6 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PERCENT ACTUAL PARTICIPATION
NM-012688	29N 6W	1180.19		TRACT: 001			16246595
SEC. 11	LOT 1, SW/4, E/2 NW/4, SW/4 NW/4, E/2		ORRI: ROYALTY: WORKING INTEREST: PHILLIPS-SAN JUAN PARTNERS, L.P. WILLIAMS PRODUCTION COMPANY		4.000000 12.500000 68.470000 15.030000	4.000000 12.500000 68.470000 15.030000	
SEC. 12	LOTS 1 - 6, W/2 SE/4, (E/2), W/2 NW/4, SE/4 NW/4, SW/4, PART OF TR 37 IN NW/4						
	TOTAL				100.000000	100.000000	
REMARKS: SAN JUAN 29-6 UNIT #220 SAN JUAN 29-6 UNIT #221 SAN JUAN 29-6 UNIT #222 SAN JUAN 29-6 UNIT #223							
SF-078278	29N 6W	668.61		TRACT: 002			9204141
SEC. 3	LOTS 13 - 16, SW/4		ORRI: ROYALTY: WORKING INTEREST: PHILLIPS-SAN JUAN PARTNERS, L.P. WILLIAMS PRODUCTION COMPANY		4.000000 12.500000 68.470000 15.030000	4.000000 12.500000 68.470000 15.030000	
SEC. 4	LOTS 5, 8, 9, 10, E/2 SE/4, NW/4 SE/4						
SEC. 10	LOTS 1 - 4, SE/4						
	TOTAL				100.000000	100.000000	
REMARKS: SAN JUAN 29-6 UNIT #206 SAN JUAN 29-6 UNIT #214 SAN JUAN 29-6 UNIT #215 SAN JUAN 29-6 UNIT #216 SAN JUAN 29-6 UNIT #219							
SF-078426	29N 6W	560.00		TRACT: 005			7709007
SEC. 18	W/2 SW/4, E/2 E/2, NW/4 NE/4		ORRI: ROYALTY: WORKING INTEREST: MERIDIAN OIL PRODUCTION VASTAR RESOURCES, INC.		4.000000 12.500000 62.625000 20.875000	4.000000 12.500000 62.625000 20.875000	
SEC. 30	NE/4, W/2 SE/4, NE/4 SE/4						
	TOTAL				100.000000	100.000000	
REMARKS: SAN JUAN 29-6 UNIT #213 SAN JUAN 29-6 UNIT #236 SAN JUAN 29-6 UNIT #240							

DATE 07/27/94

PHILLIPS PETROLEUM COMPANY
SCHEDULE IX
THE 008 EXPANDED PARTICIPATING AREA FOR FRUITLAND COAL FORMATION
SAN JUAN 29-6 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PERCENT ACTUAL PARTICIPATION
SF-078426-A	29N 6W SEC. 17 W/2 SE/4, SE/4 SE/4	120.00	TRACT: 005A				1.651930
	ORRI:				4.000000	4.000000	
	ROYALTY:				12.500000	12.500000	
	WORKING INTEREST:				83.500000	83.500000	
	VASTAR RESOURCES, INC.						
	TOTAL				100.000000	100.000000	
REMARKS: SAN JUAN 29-6 UNIT #209							
SF-078426	29N 6W SEC. 17 SW/4, S/2 NW/4, NW/4 NW/4	280.00	TRACT: 005B				3.854503
	ORRI:				4.000000	4.000000	
	ROYALTY:				12.500000	12.500000	
	WORKING INTEREST:				57.471380	57.471380	
	PHILLIPS PETROLEUM COMPANY				5.153620	5.153620	
	MERIDIAN OIL PRODUCTION INC.				20.875000	20.875000	
	VASTAR RESOURCES, INC.						
	TOTAL				100.000000	100.000000	
REMARKS: SAN JUAN 29-6 UNIT #208							
SF-078960	29N 6W SEC. 17 NE/4 SE/4, NE/4 NW/4	80.00	TRACT: 06				1.101287
	ORRI:				4.000000	4.000000	
	ROYALTY:				12.500000	12.500000	
	WORKING INTEREST:				68.470000	68.470000	
	PHILLIPS-SAN JUAN PARTNERS, L.P.				15.030000	15.030000	
	WILLIAMS PRODUCTION COMPANY						
	TOTAL				100.000000	100.000000	
REMARKS: SAN JUAN 29-6 UNIT #208 SAN JUAN 29-6 UNIT #209							

DATE 07/27/94

PHILLIPS PETROLEUM COMPANY
SCHEDULE IX
THE 008 EXPANDED PARTICIPATING AREA FOR FRUITLAND COAL FORMATION
SAN JUAN 29-6 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PERCENT ACTUAL PARTICIPATION
SF-080377	29N 6W	238.60		TRACT: 010			3.284588
SEC. 5	LOTS 5 & 6, SW/4 NE/4, NW/4 SE/4, S/2 SE/4		ORRI: ROYALTY: WORKING INTEREST: PHILLIPS-SAN JUAN PARTNERS, L.P. WILLIAMS PRODUCTION COMPANY		5.000000 12.500000 67.650000 14.850000	5.000000 12.500000 67.650000 14.850000	
TOTAL					100.000000	100.000000	
REMARKS: SAN JUAN 29-6 UNIT #217							
SF-080379-A	29N 6W	1118.60		TRACT: 011			15.398742
SEC. 5	LOTS 7 & 8, S/2 NW/4, SW/4		ORRI: ROYALTY: WORKING INTEREST: PHILLIPS-SAN JUAN PARTNERS, L.P. WILLIAMS PRODUCTION COMPANY		5.000000 12.500000 67.650000 14.850000	5.000000 12.500000 67.650000 14.850000	
SEC. 8	ALL						
SEC. 17	NE/4						
TOTAL					100.000000	100.000000	
REMARKS: SAN JUAN 29-6 UNIT #209 SAN JUAN 29-6 UNIT #218 SAN JUAN 29-6 UNIT #245 SAN JUAN 29-6 UNIT #246							
SF-080379	29N 6W	1118.60		TRACT: 011A			15.398742
SEC. 6	LOTS 8 - 11, S/2 NE/4, SE/4 S/2 NW/4, SW/4 E/2, E/2 W/2		ORRI: ROYALTY: WORKING INTEREST: EL PASO PRODUCTION CO BOLACK MINERALS COMPANY		5.000000 12.500000 41.250000 41.250000	5.000000 12.500000 41.250000 41.250000	
SEC. 7							
TOTAL					100.000000	100.000000	
REMARKS: SAN JUAN 29-6 UNIT #201 SAN JUAN 29-6 UNIT #202 SAN JUAN 29-6 UNIT #203 SAN JUAN 29-6 UNIT #204							

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PHILLIPS PETROLEUM COMPANY
SCHEDULE IX
THE 008 EXPANDED PARTICIPATING AREA FOR FRUITLAND COAL FORMATION
SAN JUAN 29-6 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PERCENT ACTUAL PARTICIPATION
SF-080662	29N 6W NW/4 NW/4 SEC. 7	40.00	ORRI: ROYALTY: WORKING INTEREST: T. H. MCELVAIN OIL & GAS JAMES M. RAYMOND MAYDELL MILLER MAST TRUST CORINNE MILLER GAY TRUST	TRACT: 013	5.000000 12.500000 41.250000 34.375000 3.437500 3.437500	5.000000 12.500000 41.250000 34.375000 3.437500 3.437500	0.550643
	TOTAL				100.000000	100.000000	
NM-03471	29N 6W NW/4 SW/4 SEC. 7	40.00	ORRI: ROYALTY: WORKING INTEREST: PHILLIPS-SAN JUAN PARTNERS, L.P. WILLIAMS PRODUCTION COMPANY	TRACT: 015A	5.000000 12.500000 67.650000 14.850000	5.000000 12.500000 67.650000 14.850000	0.550643
	TOTAL				100.000000	100.000000	
E-289-45	29N 6W LOTS 7 & 8, S/2 NW/4, W/2 SW/4 SEC. 2	239.13	ORRI: ROYALTY: WORKING INTEREST: PHILLIPS-SAN JUAN PARTNERS, L.P. WILLIAMS PRODUCTION COMPANY	TRACT: 017C	5.000000 12.500000 67.650000 14.850000	5.000000 12.500000 67.650000 14.850000	3.291864
	TOTAL				100.000000	100.000000	

REMARKS: SAN JUAN 29-6 UNIT #207

REMARKS: SAN JUAN 29-6 UNIT #203

REMARKS: SAN JUAN 29-6 UNIT #203

DATE 07/27/94

PHILLIPS PETROLEUM COMPANY
SCHEDULE IX
THE 008 EXPANDED PARTICIPATING AREA FOR FRUITLAND COAL FORMATION
SAN JUAN 29-6 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PERCENT ACTUAL PARTICIPATION
E-289-43							
29N 6W		80.00		TRACT: 017D			1.101287
SEC. 2	E/2 SW/4		ORRI: ROYALTY: WORKING INTEREST: PHILLIPS-SAN JUAN PARTNERS, L.P. WILLIAMS PRODUCTION COMPANY		5.000000 12.500000 67.650000 14.850000	5.000000 12.500000 67.650000 14.850000	
	TOTAL				100.000000	100.000000	

REMARKS: SAN JUAN 29-6 UNIT #207

29N 6W		437.78		TRACT: 019			6.026516
SEC. 3	13.58 ACRES OF TR 40 IN THE NW/4		ORRI: ROYALTY: WORKING INTEREST: PHILLIPS-SAN JUAN PARTNERS, L.P. WILLIAMS PRODUCTION COMPANY		4.000000 12.500000 68.470000 15.030000	4.000000 12.500000 68.470000 15.030000	
SEC. 3	LOTS 5 - 12, & 67.53 ACRES OF TR 38 IN THE NW/4						
SEC. 4	100.68 ACRES BEING PART OF TR 40 IN NE/4						
SEC. 4	16.91 ACRES IN TR 40 IN THE NW/4						
	TOTAL				100.000000	100.000000	

REMARKS: SAN JUAN 29-6 UNIT #206
SAN JUAN 29-6 UNIT #214
SAN JUAN 29-6 UNIT #215
SAN JUAN 29-6 UNIT #216

29N 6W		156.25		TRACT: 020			2.150951
SEC. 3	PART OF TR 42 IN THE SE/4		ORRI: ROYALTY: WORKING INTEREST: PHILLIPS-SAN JUAN PARTNERS, L.P. WILLIAMS PRODUCTION COMPANY		4.000000 12.500000 68.470000 15.030000	4.000000 12.500000 68.470000 15.030000	
SEC. 10	84.13 ACRES BEING PART OF TR 42 IN THE NE/4						
SEC. 11	9.66 ACRES BEING PART OF TR 42 IN THE NW/4						
	TOTAL				100.000000	100.000000	

REMARKS: SAN JUAN 29-6 UNIT #214
SAN JUAN 29-6 UNIT #219
SAN JUAN 29-6 UNIT #221

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PHILLIPS PETROLEUM COMPANY
 SCHEDULE IX
 THE 008 EXPANDED PARTICIPATING AREA FOR FRUITLAND COAL FORMATION
 SAN JUAN 29-6 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PERCENT ACTUAL PARTICIPATION
FEE	29N 6W	80.00		TRACT: 022			1.101287
	SEC. 18 N/2 NW/4		ORRI: ROYALTY: WORKING INTEREST: SOUTHLANDROYALTY COMPANY		5.000000 12.500000 82.500000	5.000000 12.500000 82.500000	
	TOTAL				100.000000	100.000000	
REMARKS:	SAN JUAN 29-6 UNIT #236						
FEE	29N 6W	80.00		TRACT: 022A			1.101287
	SEC. 7 SW/4 NW/4, SW/4 SW/4		ORRI: ROYALTY: WORKING INTEREST: SOUTHLANDROYALTY COMPANY		5.000000 12.500000 82.500000	5.000000 12.500000 82.500000	
	TOTAL				100.000000	100.000000	
REMARKS:	SAN JUAN 29-6 UNIT #203						
FEE	29N 6W	40.00		TRACT: 023			0.550643
	SEC. 30 SE/4 SE/4		ORRI: ROYALTY: WORKING INTEREST: WILLIAMS PRODUCTION COMPANY		0.000000 12.500000 87.500000	0.000000 12.500000 87.500000	
	TOTAL				100.000000	100.000000	
REMARKS:	SAN JUAN 29-6 UNIT #213						

DATE 07/27/94

PHILLIPS PETROLEUM COMPANY
 SCHEDULE IX
 THE 008 EXPANDED PARTICIPATING AREA FOR FRUITLAND COAL FORMATION
 SAN JUAN 29-6 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PERCENT ACTUAL PARTICIPATION
FEE	29N 6W	160.00		TRACT: 025			2.202573
SEC. 4	SW/4 NW/4, NW/4 SW/4		ORRI: ROYALTY: WORKING INTEREST: CENTRAL RESOURCES, INC. PETROX CONSULTING, INC. TIPPERARY OIL & GAS CORP. AMERICAN WEST GAS-1993 L.L.C. R.K.C., INC.		5.000000 12.500000 36.029124 5.156250 19.723003 8.250000 13.341623	5.000000 12.500000 36.029124 5.156250 19.723003 8.250000 13.341623	
SEC. 5	SE/4 NE/4, NE/4 SE/4						
REMARKS:	SAN JUAN 29-6 UNIT #216 SAN JUAN 29-6 UNIT #217						
FEE	29N 6W	266.47		TRACT: 026			3.668248
SEC. 4	13.53 ACRES IN NE/4 OF TR 41 SW/4 SE/4		ORRI: ROYALTY: WORKING INTEREST: PHILLIPS-SAN JUAN PARTNERS, L.P. WILLIAMS PRODUCTION COMPANY		0.000000 12.500000 71.750000 15.750000	0.000000 12.500000 71.750000 15.750000	
SEC. 4	LOTS 6, 7, 11, 12, S/2 SW/4 PLUS 51.7 ACRES BEING PART OF TR 41 IN W/2						
REMARKS:	SAN JUAN 29-6 UNIT #206 SAN JUAN 29-6 UNIT #216						
FEE	29N 6W	280.00		TRACT: 027			3.854503
SEC. 18	S/2 NW/4, E/2 SW/4, SW/4 NE/4, W/2 SE/4		ORRI: ROYALTY: WORKING INTEREST: PHILLIPS-SAN JUAN PARTNERS, L.P. WILLIAMS PRODUCTION COMPANY T. H. MCELVAIN OIL & GAS JAMES M. RAYMOND MAYDELL MILLER MAST TRUST CORINNE MILLER GAY TRUST		0.000000 12.500000 35.875000 7.875000 21.875000 18.229166 1.822917 1.822917	0.000000 12.500000 35.875000 7.875000 21.875000 18.229166 1.822917 1.822917	
REMARKS:	SAN JUAN 29-6 UNIT #236 SAN JUAN 29-6 UNIT #240						
TOTAL					100.000000	100.000000	

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PHILLIPS PETROLEUM COMPANY
SCHEDULE IX
RECAPITULATION

DESCRIPTION OF COMMITTED LANDS IN PARTICIPATING AREA:		DESCRIPTION OF NON-COMMITTED LANDS IN PARTICIPATING AREA:	
TOWNSHIP 29N, RANGE 6W			
SECTION 2	: LOTS 7 & 8, S/2 NW/4, SW/4		
SECTION 3	: ALL		
SECTION 4	: ALL		
SECTION 5	: ALL		
SECTION 6	: LOTS 8 - 11, S/2 NW/4, SW/4		
SECTION 6	: S/2 NE/4, SE/4		
SECTION 7	: ALL		
SECTION 8	: ALL		
SECTION 10	: 84.13 ACRES BEING PART OF TR 42 IN NE/4		
SECTION 10	: LOTS 1 - 4, SE/4		
SECTION 11	: ALL		
SECTION 12	: ALL		
SECTION 17	: ALL		
SECTION 18	: ALL		
SECTION 30	: E/2		
TOTAL COMMITTED :	7264.23	TOTAL ACRES NON-COMMITTED:	0.00
TOTAL NUMBER OF ACRES IN PARTICIPATING ARE	7264.23		

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PHILLIPS PETROLEUM COMPANY
SCHEDULE X
THE 009 EXPANDED PARTICIPATING AREA FOR FRUITLAND COAL FORMATION
SAN JUAN 29-6 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PERCENT ACTUAL PARTICIPATION
NM-012698		1732.46		TRACT: 001			20488592
29N 6W							
SEC. 1	LOTS 5 - 15 SW/4 NE/4, S/2 NW/4, W/2 SW/4, PART OF TR 37		ORRI: ROYALTY: WORKING INTEREST: PHILLIPS - SAN JUAN PARTNERS, L.P. WILLIAMS PRODUCTION COMPANY		4.000000 12.500000 68.470000 15.030000	4.000000 12.500000 68.470000 15.030000	
SEC. 11	LOT 1, SW/4, E/2 NW/4, SW/4 NW/4, E/2						
SEC. 12	LOTS 1 - 6, W/2 SE/4, (E/2), W/2 NW/4, SE/4 NW/4, SW/4, PART OF TR 37 IN NW/4				100.000000	100.000000	
TOTAL							
					100.000000	100.000000	

REMARKS:

SAN JUAN 29-6 UNIT #220
SAN JUAN 29-6 UNIT #221
SAN JUAN 29-6 UNIT #222
SAN JUAN 29-6 UNIT #223
SAN JUAN 29-6 UNIT #237
SAN JUAN 29-6 UNIT #238

SF-078278

29N 6W

668.61

TRACT: 002

7.907183

SEC. 3	LOTS 13 - 16, SW/4	ORRI: ROYALTY: WORKING INTEREST: PHILLIPS - SAN JUAN PARTNERS, L.P. WILLIAMS PRODUCTION COMPANY	4.000000 12.500000 68.470000 15.030000	4.000000 12.500000 68.470000 15.030000
SEC. 4	LOTS 5, 8, 9, 10, E/2 SE/4, NW/4 SE/4			
SEC. 10	LOTS 1 - 4, SE/4			
TOTAL			100.000000	100.000000

REMARKS:

SAN JUAN 29-6 UNIT #206
SAN JUAN 29-6 UNIT #214
SAN JUAN 29-6 UNIT #215
SAN JUAN 29-6 UNIT #216
SAN JUAN 29-6 UNIT #219

DATE 07/27/94

PHILLIPS PETROLEUM COMPANY
SCHEDULE X
THE 009 EXPANDED PARTICIPATING AREA FOR FRUITLAND COAL FORMATION
SAN JUAN 29-6 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PERCENT ACTUAL PARTICIPATION
SF-078426	29N 6W	720.00		TRACT: 005			8.514936
SEC. 18	W/2 SE/4, E/2 E/2, NW/4 NE/4		ORRI: ROYALTY: WORKING INTEREST: MERIDIAN OIL PRODUCTION VASTAR RESOURCES, INC.		4.000000 12.500000 62.625000 20.875000	4.000000 12.500000 62.625000 20.875000	
SEC. 19	NE/4						
SEC. 30	NE/4, W/2 SE/4, NE/4 SE/4						
TOTAL					100.000000	100.000000	
REMARKS: SAN JUAN 29-6 UNIT #213 SAN JUAN 29-6 UNIT #236 SAN JUAN 29-6 UNIT #240 SAN JUAN 29-6 UNIT #241							
SF-078426-A	29N 6W	120.00		TRACT: 005A			1.419156
SEC. 17	W/2 SE/4, SE/4 SE/4		ORRI: ROYALTY: WORKING INTEREST: VASTAR RESOURCES, INC.		4.000000 12.500000 83.500000	4.000000 12.500000 83.500000	
TOTAL					100.000000	100.000000	
REMARKS: SAN JUAN 29-6 UNIT #209							
SF-078426	29N 6W	280.00		TRACT: 005B			3.311364
SEC. 17	SW/4, S/2 NW/4, NW/4 NW/4		ORRI: ROYALTY: WORKING INTEREST: PHILLIPS PETROLEUM COMPANY WILLIAMS PRODUCTION COMPANY VASTAR RESOURCES, INC.		4.000000 12.500000 57.471380 5.153620 20.875000	4.000000 12.500000 57.471380 5.153620 20.875000	
TOTAL					100.000000	100.000000	
REMARKS: SAN JUAN 29-6 UNIT #208							

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PHILLIPS PETROLEUM COMPANY
 SCHEDULE X
 THE 009 EXPANDED PARTICIPATING AREA FOR FRUITLAND COAL FORMATION
 SAN JUAN 29-6 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PERCENT ACTUAL PARTICIPATION
SF-078960	29N 6W NE/4 SE/4, NE/4 NW/4	80.00		TRACT: 006			0.946104
	SEC. 17		ORRI: ROYALTY: WORKING INTEREST: PHILLIPS - SAN JUAN PARTNERS, L.P. WILLIAMS PRODUCTION COMPANY		4.000000 12.500000 68.470000 15.030000	4.000000 12.500000 68.470000 15.030000	
	TOTAL				100.000000	100.000000	
REMARKS: SAN JUAN 29-6 UNIT #208 SAN JUAN 29-6 UNIT #209							
SF-080377	29N 6W LOTS 5 & 6, SW/4 NE/4, NW/4 SE/4, S/2 SE/4	238.60		TRACT: 010			2.821755
	SEC. 5		ORRI: ROYALTY: WORKING INTEREST: PHILLIPS - SAN JUAN PARTNERS, L.P. WILLIAMS PRODUCTION COMPANY		5.000000 12.500000 67.650000 14.850000	5.000000 12.500000 67.650000 14.850000	
	TOTAL				100.000000	100.000000	
REMARKS: SAN JUAN 29-6 UNIT #217							
SF-080379-A	29N 6W LOTS 7, 8, S/2 NW/4, SW/4	1118.60		TRACT: 011			13.228899
	SEC. 5		ORRI: ROYALTY: WORKING INTEREST: PHILLIPS - SAN JUAN PARTNERS, L.P. WILLIAMS PRODUCTION COMPANY		5.000000 12.500000 67.650000 14.850000	5.000000 12.500000 67.650000 14.850000	
	SEC. 8 ALL SEC. 17						
	TOTAL				100.000000	100.000000	
REMARKS: SAN JUAN 29-6 UNIT #209 SAN JUAN 29-6 UNIT #218 SAN JUAN 29-6 UNIT #245 SAN JUAN 29-6 UNIT #246							

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PHILLIPS PETROLEUM COMPANY
SCHEDULE X
THE 009 EXPANDED PARTICIPATING AREA FOR FRUITLAND COAL FORMATION
SAN JUAN 29-6 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PERCENT ACTUAL PARTICIPATION
SF-080379	29N 6W	1118.60		TRACT: 011A			13.22899
SEC. 6	LOTS 8 - 11, S/2 NE/4, SE/4 S/2 NW/4, SW/4		ORRI: ROYALTY: WORKING INTEREST: EL PASO PRODUCTION CO BLACK MINERALS COMPANY		5.000000 12.500000 41.250000 41.250000	5.000000 12.500000 41.250000 41.250000	
SEC. 7	E/2, E/2 W/2				41.250000		
TOTAL					100.000000	100.000000	

REMARKS: SAN JUAN 29-6 UNIT #201
SAN JUAN 29-6 UNIT #202
SAN JUAN 29-6 UNIT #203
SAN JUAN 29-6 UNIT #204

SF-080662	29N 6W	40.00		TRACT: 013			0.473052
SEC. 7	NW/4 NW/4		ORRI: ROYALTY: WORKING INTEREST: T. H. MCELVAIN OIL & GAS JAMES M. RAYMOND MAYDELL MILLER MAST TRUST CORINNE MILLER GAY TRUST		5.000000 12.500000 41.250000 34.375000 3.437500 3.437500	5.000000 12.500000 41.250000 34.375000 3.437500 3.437500	
TOTAL					100.000000	100.000000	

REMARKS: SAN JUAN 29-6 UNIT #203

NM-03471	29N 6W	40.00		TRACT: 015A			0.473052
SEC. 7	NW/4 SW/4		ORRI: ROYALTY: WORKING INTEREST: PHILLIPS - SAN JUAN PARTNERS, L.P. WILLIAMS PRODUCTION COMPANY		5.000000 12.500000 67.650000 14.850000	5.000000 12.500000 67.650000 14.850000	
TOTAL					100.000000	100.000000	

REMARKS: SAN JUAN 29-6 UNIT #203

DATE 07/27/94

PHILLIPS PETROLEUM COMPANY
 SCHEDULE X
 THE 009 EXPANDED PARTICIPATING AREA FOR FRUITLAND COAL FORMATION
 SAN JUAN 29-6 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PERCENT ACTUAL PARTICIPATION
E-289-3	29N 6W SE/4	160.00	ORRI: ROYALTY: WORKING INTEREST: THE WISER OIL COMPANY	TRACT: 017	0.000000 12.500000 87.500000	0.000000 12.500000 87.500000	1.892208
	REMARKS: SAN JUAN 29-6 UNIT #239				100.000000	100.000000	
	TOTAL						
E-289-44	29N 6W LOTS 5 & 6, SE/4 NE/4	119.23	ORRI: ROYALTY: WORKING INTEREST: PHILLIPS-SAN JUAN PARTNER, L.P. WILLIAMS PRODUCTION COMPANY	TRACT: 017A	5.000000 12.500000 67.650000 14.850000	5.000000 12.500000 67.650000 14.850000	1.410050
	REMARKS: SAN JUAN 29-6 UNIT #239				100.000000	100.000000	
	TOTAL						
E-289-45	29N 6W LOTS 7 & 8, S/2 NW/4, W/2 SW/4, SW/4 NE/4	279.13	ORRI: ROYALTY: WORKING INTEREST: PHILLIPS-SAN JUAN PARTNERS, L.P. WILLIAMS PRODUCTION COMPANY	TRACT: 017C	5.000000 12.500000 67.650000 14.850000	5.000000 12.500000 67.650000 14.850000	3.301075
	REMARKS: SAN JUAN 29-6 UNIT #207 SAN JUAN 29-6 UNIT #239				100.000000	100.000000	
	TOTAL						

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PHILLIPS PETROLEUM COMPANY
SCHEDULE X
THE 009 EXPANDED PARTICIPATING AREA FOR FRUITLAND COAL FORMATION
SAN JUAN 29-6 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PERCENT ACTUAL PARTICIPATION
E-289-43	29N 6W	80.00		TRACT: 017D			0.946104
SEC. 2	E/2 SW/4		ORRI: ROYALTY: WORKING INTEREST: PHILLIPS - SAN JUAN PARTNERS, L.P. WILLIAMS PRODUCTION COMPANY		5.000000 12.500000 67.650000 14.850000	5.000000 12.500000 67.650000 14.850000	
	TOTAL				100.000000	100.000000	

REMARKS: SAN JUAN 29-6 UNIT #207

FEE	29N 6W	437.78		TRACT: 019			5.177318
SEC. 3	13.58 ACRES OF TR 40 IN THE NW/4 LOTS 5 - 12, & 67.53 ACRES OF TR 38 IN THE NW/4		ORRI: ROYALTY: WORKING INTEREST: PHILLIPS - SAN JUAN PARTNERS, L.P. WILLIAMS PRODUCTION COMPANY		4.000000 12.500000 68.470000 15.030000	4.000000 12.500000 68.470000 15.030000	
SEC. 4	100.68 ACRES BEING PART OF TR 40 IN NE/4 16.91 ACRES IN TR 40 IN THE NW/4				100.000000	100.000000	
SEC. 4			TOTAL		100.000000	100.000000	

REMARKS: SAN JUAN 29-6 UNIT #206
SAN JUAN 29-6 UNIT #214
SAN JUAN 29-6 UNIT #215
SAN JUAN 29-6 UNIT #216

FEE	29N 6W	156.25		TRACT: 020			1.847859
SEC. 3	PART OF TR 42 IN THE SE/4		ORRI:		4.000000	4.000000	
SEC. 10	84.13 ACRES BEING PART OF TR 40 IN THE NE/4 9.66 ACRES BEING PART OF TR 42 IN THE NW/4		ROYALTY: WORKING INTEREST: PHILLIPS - SAN JUAN PARTNERS, L.P. WILLIAMS PRODUCTION COMPANY		12.500000 68.470000 15.030000	12.500000 68.470000 15.030000	
SEC. 11					100.000000	100.000000	
	TOTAL				100.000000	100.000000	

REMARKS: SAN JUAN 29-6 UNIT #214
SAN JUAN 29-6 UNIT #219
SAN JUAN 29-6 UNIT #221

DATE 07/27/94

PHILLIPS PETROLEUM COMPANY
 SCHEDULE X
 THE 009 EXPANDED PARTICIPATING AREA FOR FRUITLAND COAL FORMATION
 SAN JUAN 29-6 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PERCENT ACTUAL PARTICIPATION
FEE	29N 6W	80.00		TRACTS: 022			0.946104
	SEC. 18 N/2 NW/4		ORRI: ROYALTY: WORKING INTEREST: SOUTHLAND ROYALTY COMPANY		5.000000 12.500000 82.500000	5.000000 12.500000 82.500000	
	TOTAL				100.000000	100.000000	
REMARKS: SAN JUAN 29-6 UNIT #236							
FEE	29N 6W	80.00		TRACT: 022A			0.946104
	SEC. 7 SW/4 NW/4		ORRI: ROYALTY: WORKING INTEREST: SOUTHLAND ROYALTY COMPANY		5.000000 12.500000 82.500000	5.000000 12.500000 82.500000	
	TOTAL				100.000000	100.000000	
REMARKS: SAN JUAN 29-6 UNIT #203							
FEE	29N 6W	40.00		TRACT: 023			0.473052
	SEC. 30 SE/4 SE/4		ORRI: ROYALTY: WORKING INTEREST: WILLIAMS PRODUCTION COMPANY		0.000000 12.500000 87.500000	0.000000 12.500000 87.500000	
	TOTAL				100.000000	100.000000	
REMARKS: SAN JUAN 29-6 UNIT #213							

DATE: 07/27/94

PHILLIPS PETROLEUM COMPANY
 SCHEDULE X
 THE 009 EXPANDED PARTICIPATING AREA FOR FRUITLAND COAL FORMATION
 SAN JUAN 29-6 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PERCENT ACTUAL PARTICIPATION
FEE	29N 6W SE/4	160.00		TRACT: 023A			1.892208
			ORRI:		5.000000	5.000000	
			ROYALTY:		12.500000	12.500000	
			WORKING INTEREST:				
			T. H. MCDEVAIN OIL & GAS		41.250000	41.250000	
			JAMES M. RAYMOND		34.375000	34.375000	
			CORINNE MILLER GAY TRUST		3.437500	3.437500	
			MAYDELL MILLER MAST TRUST		3.437500	3.437500	
			TOTAL		100.000000	100.000000	

REMARKS: SAN JUAN 29-6 UNIT #241

FEE	29N 6W	160.00		TRACT: 025			1.892208
	SEC. 4 SW/4 NW/4, NW/4 SW/4, SE/4 NE/4, NE/4 SE/4		ORRI:		5.000000	5.000000	
			ROYALTY:		12.500000	12.500000	
			WORKING INTEREST:				
			CENTRAL RESOURCES, INC.		36.029124	36.029124	
			PETROX CONSULTING, INC.		5.156250	5.156250	
			TIPPERARY OIL & GAS CORP.		19.723003	19.723003	
			AMERICAN WEST GAS-1993 L.L.C.		8.250000	8.250000	
			R.K.C., INC.		13.341623	13.341623	
			TOTAL		100.000000	100.000000	

REMARKS: SAN JUAN 29-6 UNIT #216
SAN JUAN 29-6 UNIT #217

FEE	29N 6W	266.47		TRACT: 026			3.151354
	SEC. 4 13.33 ACRES IN NE/4 OF TR 41 SW/4 SE/4		ORRI:		0.000000	0.000000	
			ROYALTY:		12.500000	12.500000	
			WORKING INTEREST:				
			PHILLIPS-SAN JUAN PARTNERS, L.P.		71.750000	71.750000	
			WILLIAMS PRODUCTION COMPANY		15.750000	15.750000	
			TOTAL		100.000000	100.000000	

REMARKS: SAN JUAN 29-6 UNIT #206
SAN JUAN 29-6 UNIT #216

DATE 07/27/94

PHILLIPS PETROLEUM COMPANY
SCHEDULE X
THE 009 EXPANDED PARTICIPATING AREA FOR FRUITLAND COAL FORMATION
SAN JUAN 29-6 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PERCENT ACTUAL PARTICIPATION
FEE		280.00		TRACT: 027			3.31364
29N 6W	S/2 NW/4, E/2 SW/4, SW/4 NE/4, W/2 SE/4		ORR: ROYALTY: WORKING INTEREST: PHILLIPS - SAN JUAN PARTNERS, L.P. WILLIAMS PRODUCTION COMPANY T. H. MCELVAIN OIL & GAS JAMES M. RAYMOND MAYDELL MILLER MAST TRUST CORINNE MILLER GAY TRUST		0.000000 12.500000 35.875000 7.875000 21.875000 18.229166 1.822917 1.822917	0.000000 12.500000 35.875000 7.875000 21.875000 18.229166 1.822917 1.822917	
SEC. 18							
TOTAL					100.000000	100.000000	

REMARKS: SAN JUAN 29-6 UNIT #236
SAN JUAN 29-6 UNIT #240

DATE 07/27/94

PHILLIPS PETROLEUM COMPANY
SCHEDULE X
RECAPITULATION

DESCRIPTION OF COMMITTED LANDS IN PARTICIPATING AREA:	DESCRIPTION OF NON-COMMITTED LANDS IN PARTICIPATING AREA:
SECTION 1 : ALL	
SECTION 2 : ALL	
SECTION 3 : ALL	
SECTION 4 : ALL	
SECTION 5 : ALL	
SECTION 6 : LOTS 8 - 11, S/2 NW/4, SW/4	
SECTION 7 : S/2 NE/4, SE/4	
SECTION 8 : ALL	
SECTION 10 : 84.13 ACRES BEING PART OF TR 42 IN NE/4	
SECTION 10 : LOTS 1 - 4, SE/4	
SECTION 11 : ALL	
SECTION 12 : ALL	
SECTION 17 : ALL	
SECTION 18 : ALL	
SECTION 19 : E/2	
SECTION 30 : E/2	
TOTAL COMMITTED :	TOTAL ACRES NON-COMMITTED:
8455.73	0.00
TOTAL NUMBER OF ACRES IN PARTICIPATING AREA:	8455.73

DATE 07/27/94

PHILLIPS PETROLEUM COMPANY
SCHEDULE XI
THE 010 EXPANDED PARTICIPATING AREA FOR FRUITLAND COAL FORMATION
SAN JUAN 29-6 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PERCENT ACTUAL PARTICIPATION
NM-012688	29N 6W	1732.46		TRACT: 001			17380409
SEC. 1	LOTS 5 - 15, SW/4 NE/4, S/2 NW/4, W/2 SW/4, PART OF TR 37		ORRI: ROYALTY: WORKING INTEREST: PHILLIPS - SAN JUAN PARTNERS, L.P. WILLIAMS PRODUCTION COMPANY		4.000000 12.500000 68.470000 15.030000	4.000000 12.500000 68.470000 15.030000	
SEC. 11	LOT 1, SW/4, E/2 NW/4, SW/4 NW/4, E/2						
SEC. 12	LOTS 1 - 6, W/2 SE/4, (E/2), W/2 NW/4, SE/4 NW/4, SW/4, PART OF TR 37 IN NW/4				100.000000	100.000000	
TOTAL							
REMARKS:	SAN JUAN 29-6 UNIT #220 SAN JUAN 29-6 UNIT #221 SAN JUAN 29-6 UNIT #222 SAN JUAN 29-6 UNIT #223 SAN JUAN 29-6 UNIT #237 SAN JUAN 29-6 UNIT #238						
SF-078278	29N 6W	900.77		TRACT: 002			9.036717
SEC. 3	LOTS 13 - 16, SW/4		ORRI: ROYALTY: WORKING INTEREST: PHILLIPS - SAN JUAN PARTNERS, L.P. WILLIAMS PRODUCTION COMPANY		4.000000 12.500000 68.470000 15.030000	4.000000 12.500000 68.470000 15.030000	
SEC. 4	LOTS 5, 8, 9, 10, E/2 SE/4, NW/4 SE/4						
SEC. 10	LOTS 1 - 4, SE/4						
SEC. 13	LOTS 1 - 4, W/2 E/2				100.000000	100.000000	
REMARKS:	SAN JUAN 29-6 UNIT #206 SAN JUAN 29-6 UNIT #214 SAN JUAN 29-6 UNIT #215 SAN JUAN 29-6 UNIT #216 SAN JUAN 29-6 UNIT #219 SAN JUAN 29-6 UNIT #224						
TOTAL							

DATE 07/27/94

PHILLIPS PETROLEUM COMPANY
SCHEDULE XI
THE 010 EXPANDED PARTICIPATING AREA FOR FRUITLAND COAL FORMATION
SAN JUAN 29-6 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PERCENT ACTUAL PARTICIPATION
SF-078426	29N 6W	960.00		TRACT: 005			9.630925
SEC. 18	W/2 SE/4, E/2 E/2,		ORRI:		4.000000	4.000000	
	NW/4 NE/4		ROYALTY:		12.500000	12.500000	
SEC. 19	NE/4, W/2 SW/4,		WORKING INTEREST:				
	SE/4 SW/4		MERIDIAN OIL PRODUCTION		62.625000	62.625000	
SEC. 20	E/2 NE/4, SW/4 SE/4		VASTAR RESOURCES, INC.		20.875000	20.875000	
SEC. 30	NE/4, W/2 SE/4,						
	NE/4 SE/4						
			TOTAL		100.000000	100.000000	

REMARKS: SAN JUAN 29-6 UNIT #208

SAN JUAN 29-6 UNIT #211
SAN JUAN 29-6 UNIT #213
SAN JUAN 29-6 UNIT #236
SAN JUAN 29-6 UNIT #240
SAN JUAN 29-6 UNIT #241
SAN JUAN 29-6 UNIT #242

SF-078426-A	29N 6W	240.00		TRACT: 005A			2.407731
SEC. 17	W/2 SE/4, SE/4 SE/4		ORRI:		4.000000	4.000000	
SEC. 20	W/2 NW/4, NW/4 SW/4		ROYALTY:		12.500000	12.500000	
			WORKING INTEREST:				
			VASTAR RESOURCES, INC.		83.500000	83.500000	
			TOTAL		100.000000	100.000000	

REMARKS: SAN JUAN 29-6 UNIT #209
SAN JUAN 29-6 UNIT #210

SF-078426	29N 6W	240.00		TRACT: 005B			2.809020
SEC. 17	SW/4, S/2 NW/4,		ORRI:		4.000000	4.000000	
	NW/4 NW/4		ROYALTY:		12.500000	12.500000	
			WORKING INTEREST:				
			PHILLIPS PETROLEUM COMPANY		57.471380	57.471380	
			WILLIAMS PRODUCTION COMPANY		5.153620	5.153620	
			VASTAR RESOURCES, INC.		20.875000	20.875000	
			TOTAL		100.000000	100.000000	

REMARKS: SAN JUAN 29-6 UNIT #208

DATE 07/27/94

PHILLIPS PETROLEUM COMPANY
 SCHEDULE XI
 THE 010 EXPANDED PARTICIPATING AREA FOR FRUITLAND COAL FORMATION
 SAN JUAN 29-6 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PERCENT ACTUAL PARTICIPATION
SF-078960	29N 6W NE/4 SE/4, NE/4 NW/4	80.00	TRACT: 006				0.802577
	ORRI:				4.000000	4.000000	
	ROYALTY:				12.500000	12.500000	
	WORKING INTEREST:				68.470000	68.470000	
	PHILLIPS - SAN JUAN PARTNERS, L.P.				15.030000	15.030000	
	WILLIAMS PRODUCTION COMPANY						
	TOTAL				100.000000	100.000000	
REMARKS: SAN JUAN 29-6 UNIT #208 SAN JUAN 29-6 UNIT #209							
SF-080377	29N 6W LOTS 5 & 6, SW/4 NE/4, NW/4 SE/4, S/2 SE/4	238.60	TRACT: 010				2.393686
	ORRI:				5.000000	5.000000	
	ROYALTY:				12.500000	12.500000	
	WORKING INTEREST:				67.650000	67.650000	
	PHILLIPS - SAN JUAN PARTNERS, L.P.				14.850000	14.850000	
	WILLIAMS PRODUCTION COMPANY						
	TOTAL				100.000000	100.000000	
REMARKS: SAN JUAN 29-6 UNIT #217							
SF-080379-A	29N 6W LOTS 7 & 8, S/2 NW/4, SW/4	1118.60	TRACT: 011				11.222034
	ORRI:				5.000000	5.000000	
	ROYALTY:				12.500000	12.500000	
	WORKING INTEREST:				67.650000	67.650000	
	PHILLIPS - SAN JUAN PARTNERS, L.P.				14.850000	14.850000	
	WILLIAMS PRODUCTION COMPANY						
	TOTAL				100.000000	100.000000	
REMARKS: SAN JUAN 29-6 UNIT #209 SAN JUAN 29-6 UNIT #218 SAN JUAN 29-6 UNIT #245 SAN JUAN 29-6 UNIT #246							

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PHILLIPS PETROLEUM COMPANY
SCHEDULE XI
THE 010 EXPANDED PARTICIPATING AREA FOR FRUITLAND COAL FORMATION
SAN JUAN 29-6 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PERCENT ACTUAL PARTICIPATION
SF-080379	29N 6W	1118.60		TRACT: 011A			11.222034
SEC. 6	LOTS 8 - 11, S/2 NE/4, SE/4 S/2 NW/4, SW/4 E/2, E/2W/2		ORRI: ROYALTY: WORKING INTEREST: EL PASO PRODUCTION CO BOLACK MINERALS COMPANY		5.000000 12.500000 41.250000 41.250000	5.000000 12.500000 41.250000 41.250000	
SEC. 7							
TOTAL					100.000000	100.000000	
REMARKS: SAN JUAN 29-6 UNIT #201 SAN JUAN 29-6 UNIT #202 SAN JUAN 29-6 UNIT #203 SAN JUAN 29-6 UNIT #204							
SF-080662	29N 6W	40.00		TRACT: 013			0.401289
SEC. 7	NW/4 NW/4		ORRI: ROYALTY: WORKING INTEREST: T. H. MCELVAIN OIL & GAS JAMES M. RAYMOND MAYDELL MILLER MAST TRUST CORINNE MILLER GAY TRUST		5.000000 12.500000 41.250000 34.375000 3.437500 3.437500	5.000000 12.500000 41.250000 34.375000 3.437500 3.437500	
TOTAL					100.000000	100.000000	
REMARKS: SAN JUAN 29-6 UNIT #203							
NM-03040	29N 6W	320.00		TRACT: 014			3.210308
SEC. 21	W/2		ORRI: ROYALTY: WORKING INTEREST: EL PASO PRODUCTION INC.		21.875000 12.500000 65.625000	21.875000 12.500000 65.625000	
TOTAL					100.000000	100.000000	
REMARKS: SAN JUAN 29-6 UNIT #205							

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PHILLIPS PETROLEUM COMPANY
 SCHEDULE XI
 THE 010 EXPANDED PARTICIPATING AREA FOR FRUITLAND COAL FORMATION
 SAN JUAN 29-6 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PERCENT ACTUAL PARTICIPATION
NM-03471	29N 6W	120.00		TRACT: 015A			1.203866
SEC. 7	NW/4 SW/4		ORRI:		5.000000	5.000000	
SEC. 20	E/2 SE/4		ROYALTY:		12.500000	12.500000	
			WORKING INTEREST:		67.650000	67.650000	
			PHILLIPS-SAN JUAN PARTNERS, L.P.		14.850000	14.850000	
			WILLIAMS PRODUCTION COMPANY				
			TOTAL		100.000000	100.000000	
REMARKS: SAN JUAN 29-6 UNIT #203 SAN JUAN 29-6 UNIT #211							
E-289-3	29N 6W	160.00		TRACT: 017			1.605154
SEC. 2	SE/4		ORRI:		0.000000	0.000000	
			ROYALTY:		12.500000	12.500000	
			WORKING INTEREST:		87.500000	87.500000	
			THE WISER OIL COMPANY				
			TOTAL		100.000000	100.000000	
REMARKS: SAN JUAN 29-6 UNIT #239							
E-289-44	29N 6W	119.23		TRACT: 017A			1.196141
SEC. 2	LOTS 5 & 6, SE/4 NE/4		ORRI:		5.000000	5.000000	
			ROYALTY:		12.500000	12.500000	
			WORKING INTEREST:		67.650000	67.650000	
			PHILLIPS-SAN JUAN PARTNERS, L.P.		14.850000	14.850000	
			WILLIAMS PRODUCTION COMPANY				
			TOTAL		100.000000	100.000000	
REMARKS: SAN JUAN 29-6 UNIT #239							

DATE 07/27/94

PHILLIPS PETROLEUM COMPANY
SCHEDULE XI
THE 010 EXPANDED PARTICIPATING AREA FOR FRUITLAND COAL FORMATION
SAN JUAN 29-6 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DRIILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PERCENT ACTUAL PARTICIPATION
E-289-45	29N 6W	279.13		TRACT: 017C			2.80292
SEC. 2	LOTS 7 & 8, S/2 NW/4, W/2 SW/4, SW/4 NE/4		ORRI: ROYALTY: WORKING INTEREST: PHILLIPS-SAN JUAN PARTNERS, L.P. WILLIAMS PRODUCTION COMPANY		5.000000 12.500000 67.650000 14.850000	5.000000 12.500000 67.650000 14.850000	
TOTAL					100.000000	100.000000	

PERCENT ACTUAL PARTICIPATION
1.567533

REMARKS: SAN JUAN 29-6 UNIT #207

E-289-43	29N 6W	80.00		TRACT: 017D			0.802577
SEC. 2	E/2 SW/4		ORRI: ROYALTY: WORKING INTEREST: PHILLIPS-SAN JUAN PARTNERS, L.P. WILLIAMS PRODUCTION COMPANY		5.000000 12.500000 67.650000 14.850000	5.000000 12.500000 67.650000 14.850000	
TOTAL					100.000000	100.000000	

0.802577

REMARKS: SAN JUAN 29-6 UNIT #207

FEE	29N 6W	437.78		TRACT: 019			4.391902
SEC. 3	13.58 ACRES OF TR. 40 IN THE NW/4		ORRI: ROYALTY: WORKING INTEREST: PHILLIPS-SAN JUAN PARTNERS, L.P. WILLIAMS PRODUCTION COMPANY		4.000000 12.500000 68.470000 15.030000	4.000000 12.500000 68.470000 15.030000	
SEC. 3	LOTS 5 - 12 & 67.53 ACRES OF TR 38 IN THE NW/4						
SEC. 4	100.68 ACRES BEING PART OF TR 40 IN NE/4						
SEC. 4	16.91 ACRES IN TR 40 IN THE NW/4						
TOTAL					100.000000	100.000000	

0.802577

REMARKS:

SAN JUAN 29-6 UNIT #206
SAN JUAN 29-6 UNIT #214
SAN JUAN 29-6 UNIT #215
SAN JUAN 29-6 UNIT #216

DATE 07/27/94

PHILLIPS PETROLEUM COMPANY
 SCHEDULE XI
 THE 010 EXPANDED PARTICIPATING AREA FOR FRUITLAND COAL FORMATION
 SAN JUAN 29-6 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PERCENT ACTUAL PARTICIPATION
FEE	29N 6W	156.25		TRACT: 0220			1.567533
	SEC. 3		ORRI:		4.000000	4.000000	
	SEC. 10		ROYALTY:		12.500000	12.500000	
	SEC. 11		WORKING INTEREST:		68.470000	68.470000	
			PHILLIPS-SAN JUAN PARTNERS, L.P.		15.030000	15.030000	
			WILLIAMS PRODUCTION COMPANY				
			TOTAL		100.000000	100.000000	
REMARKS: SAN JUAN 29-6 UNIT #214 SAN JUAN 29-6 UNIT #219 SAN JUAN 29-6 UNIT #221							
FEE	29N 6W	80.00		TRACT: 0222			0.802577
	SEC. 18		ORRI:		5.000000	5.000000	
			ROYALTY:		12.500000	12.500000	
			WORKING INTEREST:		82.500000	82.500000	
			SOUTHLAND ROYALTY COMPANY				
			TOTAL		100.000000	100.000000	
REMARKS: SAN JUAN 29-6 UNIT #226							
FEE	29N 6W	80.00		TRACT: 022A			0.802577
	SEC. 7		ORRI:		5.000000	5.000000	
			ROYALTY:		12.500000	12.500000	
			WORKING INTEREST:		82.500000	82.500000	
			SOUTHLAND ROYALTY COMPANY				
			TOTAL		100.000000	100.000000	
REMARKS: SAN JUAN 29-6 UNIT #203							

DATE 07/27/94

PHILLIPS PETROLEUM COMPANY
SCHEDULE XI
THE 010 EXPANDED PARTICIPATING AREA FOR FRUITLAND COAL FORMATION
SAN JUAN 29-6 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PERCENT ACTUAL PARTICIPATION
FEE							
29N 6W		360.00		TRACT: 023			3.61397
SEC. 20	E/2 NW/4, E/2 SW/4, SW/4 SW/4, W/2 NE/4, NW/4 SE/4		ORRI: ROYALTY: WORKING INTEREST: WILLIAMS PRODUCTION COMPANY		0.000000 12.500000 87.500000	0.000000 12.500000 87.500000	
SEC. 30	SE/4 SE/4						
TOTAL					100.000000	100.000000	

REMARKS: SAN JUAN 29-6 UNIT #210
SAN JUAN 29-6 UNIT #211
SAN JUAN 29-6 UNIT #213

FEE							
29N 6W		320.00		TRACT: 023A			3.210308
SEC. 19	SE/4, W/2 NW/4, SE/4 NW/4, NE/4 SW/4		ORRI: ROYALTY: WORKING INTEREST: T. H. MCCLVAIN OIL & GAS JAMES M. RAYMOND CORINNE MILLER GAY TRUST MAYDELL MILLER MAST TRUST		5.000000 12.500000 41.250000 34.375000 3.437500 3.437500	5.000000 12.500000 41.250000 34.375000 3.437500 3.437500	
TOTAL					100.000000	100.000000	

REMARKS: SAN JUAN 29-6 UNIT #213
SAN JUAN 29-6 UNIT #242

FEE							
29N 6W		160.00		TRACT: 025			1.605154
SEC. 4	SW/4 NW/4, NW/4 SW/4		ORRI: ROYALTY: WORKING INTEREST: CENTRAL RESOURCES, INC. PETROX CONSULTING, INC. TIPPERARY OIL & GAS CORP. AMERICAN WEST GAS-1993 L.L.C. R.K.C., INC.		5.000000 12.500000 36.029124 5.156250 19.723003 8.250000 13.341623	5.000000 12.500000 36.029124 5.156250 19.723003 8.250000 13.341623	
SEC. 5	SE/4 NE/4, NE/4 SE/4						
TOTAL					100.000000	100.000000	

REMARKS: SAN JUAN 29-6 UNIT #216
SAN JUAN 29-6 UNIT #217

DATE 07/27/94

PHILLIPS PETROLEUM COMPANY
 SCHEDULE XI
 THE 010 EXPANDED PARTICIPATING AREA FOR FRUITLAND COAL FORMATION
 SAN JUAN 29-6 UNIT AREA

SERIAL NUMBER	DESCRIPTION	NUMBER OF ACRES	OWNERSHIP	DILLING BLOCK	PERCENTAGE	PERCENTAGE COMMITTED	PERCENT ACTUAL PARTICIPATION
FEE		266.47		TRACT: 026			2.673284
SEC. 4	13.53 ACRES IN NE/4 OF TR 41 SW/4 SE/4		ORRI: ROYALTY: WORKING INTEREST: PHILLIPS-SAN JUAN PARTNERS, L.P. WILLIAMS PRODUCTION COMPANY		0.000000 12.500000 71.750000 15.750000	0.000000 12.500000 71.750000 15.750000	
SEC. 4	LOTS 6, 7, 11, 12, S/2 SW/4 PLUS 51.7 ACRES BEING PART OF TR 41 IN W/2						
SEC. 4							
TOTAL					100.000000	100.000000	

REMARKS: SAN JUAN 29-6 UNIT #206
 SAN JUAN 29-6 UNIT #216

FEE		320.00		TRACT: 027			3.210308
SEC. 18	S/2 NW/4, E/2 SW/4, SW/4 NE/4, W/2 SE/4		ORRI: ROYALTY: WORKING INTEREST: PHILLIPS-SAN JUAN PARTNERS, L.P. WILLIAMS PRODUCTION COMPANY T. H. MCELVAIN OIL & GAS JAMES M. RAYMOND MAYDELL MILLER MAST TRUST CORINNE MILLER GAY TRUST		0.000000 12.500000 35.875000 7.875000 21.875000 18.229166 1.822917 1.822917	0.000000 12.500000 35.875000 7.875000 21.875000 18.229166 1.822917 1.822917	
SEC. 19	NE/4 NW/4						
TOTAL					100.000000	100.000000	

REMARKS: SAN JUAN 29-6 UNIT #236
 SAN JUAN 29-6 UNIT #240
 SAN JUAN 29-6 UNIT #242