

Exhibits 1 through 14  
Complete Set



Stephen D. Ring  
Attorney

**Amoco Production Company**

Denver Region  
1670 Broadway  
P.O. Box 800  
Denver, Colorado 80201  
303-830-4040

June 17, 1985

Re: Sammons Gas Com. "I" No. 1  
Application for Natural Gas  
Category Determination, NGPA of  
1978 Section 107

Department of Energy and Minerals  
Oil Conservation Division  
P.O. Box 2088  
Santa Fe, NM 87501

Dear Sir:

Amoco Production Company (Amoco) submits herewith for filing its Application for Natural Gas Category Determination under the Natural Gas Policy Act of 1978 for the above referenced well.

Assuming that an examiner hearing is necessary to the approval of this Application, the undersigned will contact your office shortly to fix a date for such a hearing.

Amoco requests that all inquiries and correspondence regarding this filing be addressed to J.E. Ford, Amoco Production Company, Amoco Building, P.O. Box 800, Denver, Colorado 80201.

Please accept this Application for filing and acknowledge its receipt by stamping the enclosed copy of this letter and returning it in the envelope provided. Thank you.

Yours very truly,

*Stephen D. Ring*  
Stephen D. Ring

SDR/gmm

Enclosure

cc w/att: El Paso Natural Gas Company (Purchaser)  
Moore, Wayne and Jo Ann  
Paul Umbach Estate

SANTA FE, NEW MEXICO 87501

APPLICATION FOR WELLHEAD  
PRICE CEILING CATEGORY DETERMINATION

**1. FOR DIVISION USE ONLY:**

DATE COMPLETE APPLICATION FILED \_\_\_\_\_

DATE DETERMINATION MADE \_\_\_\_\_

WAS APPLICATION CONTESTED? YES \_\_\_\_\_ NO \_\_\_\_\_

NAME(S) OF INTERVENOR(S), IF ANY: \_\_\_\_\_

3A. Indicate Type of Lease  
state  FCC

3. State Oil & Gas Lease No. \_\_\_\_\_

7. Unit Agreement Name \_\_\_\_\_

8. Form or Lease Name  
Sammons Gas Com. "I"

9. Well No. 1

10. Field and Pool, or Wildcat  
Cedar Hill Basal Coal

12. County  
San Juan

2. Name of Operator  
Amoco Production Company

3. Address of Operator  
P. O. Box 800, Denver, CO 80201

4. Location of Well  
UNIT LETTER B LOCATED 945 FEET FROM THE North LINE  
AND 1580 FEET FROM THE East LINE OF SEC. 6 TWP. 31N RGE. 10W

11. Name and Address of Purchaser(s)  
El Paso Natural Gas Company, P. O. Box 1492, El Paso, TX 79978

WELL CATEGORY INFORMATION

Check appropriate box for category sought and information submitted.

1. Category(ies) Sought (By NGPA Section No.) 107 (Coal Seami)
2. All Applications must contain:
- a. C-101 APPLICATION FOR PERMIT TO DRILL, DEEPEN OR PLUG BACK
  - b. C-105 WELL COMPLETION OR RECOMPLETION REPORT
  - c. DIRECTIONAL DRILLING SURVEY, IF REQUIRED UNDER RULE 111
  - d. AFFIDAVITS OF MAILING OR DELIVERY
3. In addition to the above, all applications must contain the items required by the applicable rule of the Division's "Special Rules for Applications For Wellhead Price Ceiling Category Determinations" as follows:
- A. NEW NATURAL GAS UNDER SEC. 102(c)(1)(B) (using 2.5 Mile or 1000 Feet Deeper Test)
    - All items required by Rule 14(1) and/or Rule 14(2)
  - B. NEW NATURAL GAS UNDER SEC. 102(c)(1)(C) (new onshore reservoir)
    - All items required by Rule 15
  - C. NEW ONSHORE PRODUCTION WELL
    - All items required by Rule 16A or Rule 16B
  - D. DEEP, HIGH-COST NATURAL GAS and TIGHT FORMATION NATURAL GAS
    - All items required by Rule 17(1) or Rule 17(2)
  - E. STRIPPER WELL NATURAL GAS
    - All items required by Rule 18

I HEREBY CERTIFY THAT THE INFORMATION CONTAINED  
HEREIN IS TRUE AND COMPLETE TO THE BEST OF MY  
KNOWLEDGE AND BELIEF.

J. H. Goble

NAME OF APPLICANT (Type or Print)

SIGNATURE OF APPLICANT

Title Regional Natural Gas Marketing Manager

Date 6-7-85

**FOR DIVISION USE ONLY**

Approved

Disapproved

The information contained herein includes all of the information required to be filed by the applicant under Subpart 5 of Part 276 of the FERC regulations.

EXAMINER \_\_\_\_\_

APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL  
PRICE UNDER THE NATURAL GAS POLICY ACT (NGPA)  
(Sections 102, 103, 107 and 108)

GENERAL INSTRUCTIONS

Complete this form if you are applying for price classification under sections 102, 103, 107 or 108 of the NGPA.

Complete each appropriate item on the reverse side of this page. The code numbers used in items 4 and 6 can be obtained from the Buyer/Seller Code Book. If there is more than one purchaser or contract, identify the additional information in the space below. Also enter any additional remarks in the space below. The data reported on this form are not considered to be confidential and will not be treated as such.

Submit the completed application to the appropriate Jurisdictional Agency as listed in title 18 of the CFR, part 274.501. If there are any questions, call (202) 357-8585.

SPECIFIC INSTRUCTIONS

Use the codes in the table below for type of determination in item 2.

Section of NGPA (a)	Category Code (b)	Description (c)
102	1	New OCS lease
102	2	New onshore well (2.5 mile test)
102	3	New onshore well (1000 feet deeper test)
102	4	New onshore reservoir
102	5	New reservoir on old OCS lease
103	-	New onshore production well
107	0	Deep (more than 15,000 feet) high-cost gas
107	1	Gas produced from geopressured brine
107	2	Gas produced from coal seams
107	3	Gas produced from Devonian shale
107	5	Production enhancement gas
107	5	New tight formation gas
107	7	Recompletion tight formation gas
108	0	Stripper well
108	1	Stripper well - seasonally affected
108	2	Stripper well - enhanced recovery
108	3	Stripper well - temporary pressure buildup
108	4	Stripper well - protest procedure

Enter the appropriate information regarding other Purchasers/Contracts.

Line No.	Contract Date (Mo, Da, Yr) (a)	Purchaser (b)	Buyer Code (c)
1			
2			
3			
4			
5			
6			

Remarks: The natural gas was ( X ) was not ( ) committed and dedicated to interstate commerce on November 8, 1978. The maximum lawful price applicable to such gas on November 8, 1978 was \$ 1.51 (\$/MMBtu). Rate Schedules (s) 768.

Amoco Contract No. 96176 Spud Date 1-19-85

**APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL  
PRICE UNDER THE NATURAL GAS POLICY ACT (NGPA)**

1.0 API well number: (If not assigned, leave blank. 14 digits.)	<u>30 - 045 - 26087 -</u>				
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	<u>107</u> Section of NGPA		<u>2</u> Category Code		
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	<u>2664</u> feet				
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	<u>Amoco Production Company</u> Name <u>1670 Broadway, P.O. Box 800</u> Street <u>Denver</u> <u>CO</u> <u>80201</u> City State Zip Code			<u>000569</u> Seller Code	
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	<u>Cedar Hill Basal Coal</u> Field Name <u>San Juan</u> <u>NM</u> County State				
(b) For OCS wells:	Area Name _____ Block Number _____  Date of Lease: _____ Mo. Day Yr. OCS Lease Number _____				
(c) Name and identification number of this well: (35 letters and digits maximum.)	<u>Sammons Gas Com. "I" No. 1</u>				
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)	_____				
6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)	<u>EI Paso Natural Gas Company</u> Name			<u>005708</u> Buyer Code	
(b) Date of the contract:	<u>01101617181</u> Mo. Day Yr.				
(c) Estimated total annual production from the well:	<u>200</u> Million Cubic Feet				
		(a) Base Price June '85	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)
7.0 Contract price: (As of filing date. Complete to 3 decimal places.)	S/MMBTU	<u>6.008</u>	<u>.384</u>	_____	<u>6.392</u>
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	S/MMBTU	<u>6.008</u>	<u>.384</u>	_____	<u>6.392</u>
9.0 Person responsible for this application:	<u>J. H. Goble</u> <u>Regional Natural Gas Marketing Manager</u> Name Title Signature <u>G-7-85</u> <u>(303) 830-4311</u> Date Application is Completed Phone Number				
Agency Use Only					
Date Received by Juris. Agency					
Date Received by FERC					

FERC-121 (8-82)

Please direct all inquiries to P. D. Whitlow at (303) 830-4246

111)

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LAND OFFICE	
OPERATOR	

NEW MEXICO OIL CONSERVATION COMMISSION

Form O-101  
Revised 1-1-65

1A. Indicate Type of Lease  
STATE  FEDERAL

5. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1. Type of Work

2. Type of Well  
DRILL  DEEPEN  PLUG BACK

OIL WELL  GAS WELL  OTHER  SINGLE ZONE  MULTIPLE ZONE

Name of Operator  
Amoco Production Company

Address of Operator  
501 Airport Drive, Farmington, New Mexico 87401

Location of Well  
UNIT LETTER B LOCATED 945 FEET FROM THE North LINE

1580 FEET FROM THE East LINE OF SEC. 6 TWP. 31N RGE. 10W NMPM

7. Unit Agreement Name

8. Firm or Lessee Name  
Sammons Gas Com I

9. Well No.  
#1

10. Field and Pool, or Wildcat  
Cedar Hill Basal Coal

12. County  
San Juan

19. Proposed Depth 2685  
19A. Formation Cedar Hill Basal  
20. Rotary or C.T. Rotary

Elevations (Show whether DP, RT, etc.) 5888' GR  
21A. Kind & Status Plug. Bond Statewide  
21B. Drilling Contractor Unknown  
22. Approx. Date Work will start As soon as permitted

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12 - 1/4"	9 - 5/8"	32.3#, K-55	300'	234 Cu. Ft.	Class B - Surface
8 - 3/4"	7"	23#, K-55	2685'	415 Cu. Ft.	Class B - Bubble Cement to Surface

Amoco proposes to drill the above well to further develop the Cedar Hill Basal Coal reservoir. The well will be drilled to the surface casing point using native mud. The well will then be drilled to TD with a low solids nondispersed mud system. Completion design will be based on open hole logs. Copy of all logs will be filed upon completion. Amoco's standard blowout prevention will be employed; see attached drawing for blowout preventer design. Upon completion the well site will be cleaned and the reserve pit filled and leveled. The gas from this well is dedicated to El Paso Natural Gas under contract No. 96,176.

ABOVE SPACE DESCRIBE PROPOSED PROGRAM; IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTION. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

BDS Shaw Title Adm. Supervisor Date 9-14-84

(This space for State Use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

All distances must be from the outer boundaries of the Section.

Operator <b>AMOCO PRODUCTION COMPANY</b>		Lease <b>SAMMONS GAS COM "I"</b>		Well No. <b>1</b>
Unit Letter <b>B</b>	Section <b>6</b>	Township <b>31N</b>	Range <b>10W</b>	County <b>San Juan</b>
Actual Footage Location of Well: <b>945</b> feet from the <b>North</b> line and <b>1580</b> feet from the <b>East</b> line				
Ground Level Elev: <b>5888</b>	Producing Formation <b>Cedar Hill Basal</b>	Pool <b>Cedar Hill Basal Coal</b>	Dedicated Acreage: <b>320</b> Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization; force-pooling, etc?

Yes  No If answer is "yes," type of consolidation Communitized.

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) \_\_\_\_\_

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



Scale: 1"=1000'

CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

*B.D. Shaw*

Name  
**B. D. Shaw**

Position  
**Administrative Supervisor**

Company  
**Amoco Production Company**

Date  
**9/14/84**

I hereby certify that the well location shown on this plot was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed  
**August 31, 1984**

Registered Professional Engineer and Land Surveyor  
*Fred S. Kerr Jr.*  
**Fred S. Kerr Jr.**

Certification No. **1222**

1980

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Form C-103  
Revised 11-4-84

NEW MEXICO OIL CONSERVATION COMMISSION  
WELL-COMPLETION OR RECOMPLETION REPORT AND LOG

5a. Indicate Type of Lease  
State  Lease

5. State Oil & Gas Lease No.

1a. TYPE OF WELL  
OIL WELL  GAS WELL  DRY  OTHER \_\_\_\_\_

1b. TYPE OF COMPLETION  
NEW WELL  WORK OVER  REPERM  PLUS BARR  DIFF. RESVR.  OTHER \_\_\_\_\_

7. Unit Agreement Name

8. Farm or Lease Name  
Sammons Gas Com I

2. Name of Operator  
Amoco Production Co.

9. Well No.  
1

3. Address of Operator  
501 Airport Drive, Farmington, N M 87401

10. Field and Pool, or Wildcat  
Cedar Hill Fruitland Basal Coal

4. Location of Well  
UNIT LETTER B LOCATED 945 FEET FROM THE North LINE AND 1580 FEET FROM THE East LINE OF SEC. 6 TWP. 31N RGE. 10W NMPM

12. County  
San Juan

13. Date Spudded 1/19/85 16. Date T.D. Reached 1/23/85 17. Date Compl. (Ready in Prod.) 4/29/85 18. Elevations (DF. HALL, RT, GR, etc.) 5900' KB 19. Elev. Caselinghead 5888' GR

20. Total Depth 2734' 21. Plug Back T.D. 2691' 22. If Multiple Compl., How Many Single 23. Intervals Drilled By Rotary Tools O-TD Cable Tools \_\_\_\_\_

24. Producing Interval(s), of this completion - Top, Bottom, Name  
2620'2664' Fruitland Basal Coal

25. Was Directional Survey Made  
Yes

26. Type Electric and Other Logs Run  
DIL-SP-GR, FDC-CNL-GR-CAL, BHC-SONIC-GR

27. Was Well Cored  
No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9-5/8"	32.3#, J55	302'	12-1/4"	236 cf CLASS B	
7"	23#, K55	2734'	8-3/4"	413 cf CLASS B Ideal and tailed in with 118 of CLASS B Ideal	

29. LINER RECORD

SIZE	TOP	BOYTON	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2-7/8"	2665'	

30. TUBING RECORD

31. Perforation Record (Interval, size and number)  
2620'-2664', 12 jspf, .50" in diameter, for a total of 528 holes

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
2620'-2664'	234,000 gal 30# and 40# gel and 467,000# 10-20 sand

33. PRODUCTION

Date First Production 5/13/85 Production Method (*Flowing, gas lift, pumping - Size and type pump*) Flowing Well Status (*Prod. or Shut-in*) Shut-in

Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
5/14/85	3 hrs.	.75"			113		

Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API (Corr.)
200 psig	215 psig			903		

34. Disposition of Gas (*Sold, used for fuel, vented, etc.*) To be acid Test Witnessed By J.J. Barnett

35. List of Attachments  
None

36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

SIGNED B.D. Shaw TITLE Adm. Supervisor DATE 6/6/85

EXH. B  
P-1



INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission not later than 30 days after the completion of any newly-drilled or completed well. It shall be completed by the owner of all oil-bearing and gas-bearing wells and a summary of all special tests conducted, including well logs, shall be attached thereto. All test reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, zones 1 through 34 shall be reported for each zone. The form is to be filed in quadruplicate except on state land, where no copies are required. See Rule 110.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Anhy _____	T. Canyon _____	T. Ojo Alamo <u>1455</u>	T. Penn. "B" _____
T. Salt _____	T. Strawn _____	T. Kirland-Fruitland <u>2058</u>	T. Penn. "C" _____
P. Salt _____	T. Atoka _____	T. Pictured Cliffs <u>2670</u>	T. Penn. "D" _____
T. Yates _____	T. Miss _____	T. Cliff House _____	T. Leadville _____
T. 7 Rivers _____	T. Devonian _____	T. Menafee _____	T. Madison _____
T. Queen _____	T. Silurian _____	T. Point Lookout _____	T. Elbert _____
T. Grayburg _____	T. Montoya _____	T. Mancos _____	T. McCracken _____
T. San Andres _____	T. Simpson _____	T. Gallup _____	T. Ignacio Quartz _____
T. Glorieta _____	T. McKee _____	Pack Greenhorn _____	T. Granite _____
T. Paddock _____	T. Ellenburger _____	T. Dakota _____	T. _____
T. Minebry _____	T. Gr. Wash _____	T. Morrison _____	T. _____
T. Tubb _____	T. Granite _____	T. Todillo _____	T. _____
T. Drinkard _____	T. Delaware Sand _____	T. Entrada _____	T. _____
T. Abo _____	T. Bone Springs _____	T. Wingate _____	T. _____
T. Wolfcamp _____	T. _____	T. Chinle _____	T. _____
T. Penn. _____	T. _____	T. Permian _____	T. _____
T. Cisco (Bough C) _____	T. _____	T. Penn. "A" _____	T. _____

OIL OR GAS SANDS OR ZONES

No. 1, from _____ to _____	No. 4, from _____ to _____
No. 2, from _____ to _____	No. 5, from _____ to _____
No. 3, from _____ to _____	No. 6, from _____ to _____

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from _____ to _____	_____ feet
No. 2, from _____ to _____	_____ feet
No. 3, from _____ to _____	_____ feet
No. 4, from _____ to _____	_____ feet

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	1455	1455	Nacimiento				
1455	2058	603	OJO Alamo				
2058	2670	612	Kirland-Fruitland				
2670	TD	---	Pictured Cliffs				

L11W

R10W

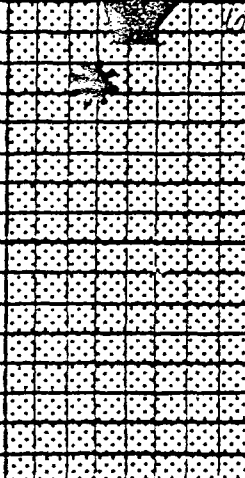
30

31

32

T  
32  
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Sammons Gas Com. "I" No. 1



T  
31  
N

12

7

15

LOCATION PLAT IDENTIFYING WELL FOR WHICH DETERMINATION IS SOUGHT UNDER THE NGPA, AS FOLLOWS:

API WELL NO.: 30-045-26027 APPLICANT: Amoco Production Company

WELL NAME AND NO.: Sammons Gas Com I #1

LOCATION OF WELL: Cedar Hill Fld, San Juan, NM  
Field County State

LEGEND



Area Attributable To Well For  
Which Determination Is Sought

Amoco Contract No.: 96,176  
Rate Schedule No.: 768

EXH-7

ENERGY AND MINERALS DEPARTMENT  
OIL CONSERVATION DIVISION

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

CASE NO. 8014  
Order No. R-7588

APPLICATION OF AMOCO PRODUCTION  
COMPANY FOR POOL CREATION AND  
SPECIAL POOL RULES, SAN JUAN  
COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 8 a.m. on January 18,  
1984, at Santa Fe, New Mexico, before Examiner Michael E.  
Stogner.

NOW, on this 9th day of July, 1984, the Division  
Director, having considered the testimony, the record, and  
the recommendations of the Examiner, and being fully advised  
in the premises,

FINDS:

(1) That due public notice having been given as required  
by law, the Division has jurisdiction of this cause and the  
subject matter thereof.

(2) That the applicant, Amoco Production Company, seeks  
an order creating a new gas pool, the vertical limits to be  
the Basal Coal Zone of the Fruitland formation, with special  
pool rules including a provision for well location and a  
provision for 320-acre spacing, San Juan County, New Mexico.

(3) That the applicant is the owner and operator of the  
Cahn Gas Com Well No. 1, located 1030 feet from the North  
line and 1600 feet from the West line of Section 33, Township  
32 North, Range 10 West, NMPM, San Juan County, New Mexico.

(4) That although said Cahn Gas Com Well No. 1 is  
located within the Mount Nebo-Fruitland Pool (created by  
Division Order No. R-4690, dated December 6, 1973, as  
amended by Division Order Nos. R-5843 and R-7046, dated  
November 2, 1978, and August 6, 1982, respectively), the

geological evidence presented at the hearing demonstrates that said well, which is producing from an open hole interval from 2795 feet to 2812 feet, has discovered a separate common source of supply within the Basal Coal member of the Fruitland formation and should be designated the Cedar Hill-Fruitland Basal Coal Pool.

(5) That the well log for the discovery well, as described above, does not fully penetrate the Basal Coal member of the Fruitland formation and as such should not be used as the type log for the proposed pool.

(6) That the vertical limits of said proposed pool should then be based upon the Basal Coal member of the Fruitland formation from approximately 2838 feet to 2878 feet as found on the type log from the applicant's Schneider Gas Com "B" Well No. 1 located 1110 feet from the South line and 1185 feet from the West line of Section 28, Township 32 North, Range 10 West, NMPM, San Juan County, New Mexico.

(7) That the well log from said Schneider Gas Com "B" Well No. 1 penetrates the entire Basal Coal member of the Fruitland formation and said well is approximately 2200 feet north of the discovery well, as described in Finding Paragraph No. (3) above.

(8) That the horizontal limits of said proposed pool should be as follows:

TOWNSHIP 31 NORTH, RANGE 10 WEST, NMPM  
Sections 3 through 6: All

TOWNSHIP 32 NORTH, RANGE 10 WEST, NMPM  
Sections 19 through 22: All  
Sections 27 through 34: All

comprising 10,240 acres, more or less, all in San Juan County; New Mexico.

(9) That the currently available information indicates that one well in the proposed pool should be capable of effectively and efficiently draining 320 acres.

(10) That in order to prevent the economic loss caused by the drilling of unnecessary wells, to encourage the orderly development of the proposed pool, and to otherwise prevent waste and protect correlative rights, the Cedar Hill-Fruitland Basal Coal Pool should be created with Temporary Special Rules

and Regulations providing for 320-acre spacing units comprising any two contiguous quarter sections of a single governmental section, being a legal subdivision of the United States Public Land Surveys.

(11) That the Temporary Special Rules and Regulations should provide for limited well locations in order to assure orderly development of the pool and to protect correlative rights.

(12) That said Temporary Special Rules and Regulations should be effective February 1, 1984, and should also be established for a two-year period in order to allow the operators in the Cedar Hill-Fruitland Basal Coal Pool to gather reservoir information to establish whether the temporary rules should be made permanent.

(13) That special provisions for a non-standard gas well location should be made for any well drilling to or completed in the Basal Coal member of the Fruitland formation within the proposed Cedar Hill-Fruitland Basal Coal Pool or within one mile of said pool on or before February 1, 1984, that does not comply with any special well location requirements promulgated in this order.

(14) That the vertical limits of the Mount Nebo-Fruitland Pool should be redefined to include the Fruitland formation with the exception of the Basal Coal member as designated on the type log of said Amoco Production Company's Schneider Gas Com "B" Well No. 1, as described in Finding Paragraph No. (6) above.

(15) That this case should be reopened at an examiner hearing in February, 1986, at which time the operators in the subject pool should be prepared to appear and show cause why the Cedar Hill-Fruitland Basal Coal Pool should not be developed on 160-acre spacing units.

IT IS THEREFORE ORDERED:

(1) That effective February 1, 1984, a new pool in San Juan County, New Mexico, classified as a gas pool for production from the Basal Coal member of the Fruitland formation, is hereby created and designated the Cedar Hill-Fruitland Basal Coal Pool, with the vertical limits comprising the Basal Coal member of the Fruitland formation as found from approximately 2795 feet to 2878 feet on the type log of the Amoco Production Company Schneider Gas Com "B" Well No. 1,

located 1110 feet from the South line and 1185 feet from the West line of Section 28, Township 32 North, Range 10 West, NMPM, San Juan County, New Mexico; and horizontal limits consisting of the following described area:

TOWNSHIP 31 NORTH, RANGE 10 WEST, NMPM  
Sections 3 through 6: All

TOWNSHIP 32 NORTH, RANGE 10 WEST, NMPM  
Sections 19 through 22: All  
Sections 27 through 34: All

comprised of 10,240 acres, more or less, all in San Juan County, New Mexico.

(2) That Temporary Special Rules and Regulations for the Cedar Hill-Fruitland Basal Coal Pool are hereby promulgated as follows:

SPECIAL RULES AND REGULATIONS FOR THE  
CEDAR HILL-FRUITLAND BASAL COAL POOL  
SAN JUAN COUNTY, NEW MEXICO

RULE 1. Each well completed or recompleted in the Cedar Hill-Fruitland Basal Coal Pool or in the Basal Coal member of the Fruitland formation within one mile of the Cedar Hill-Fruitland Basal Coal Pool, and not nearer to or within the limits of another designated Fruitland Basal Coal Pool shall be spaced, drilled, operated, and prorated in accordance with the Special Rules and Regulations hereinafter set forth.

RULE 2. Each well shall be located on a standard unit containing 320 acres, more or less, comprising any two contiguous quarter sections of a single governmental section, being a legal subdivision of the United States Public Land Surveys.

RULE 3. Non-standard spacing or proration units shall be authorized only after notice and hearing.

RULE 4. The first well drilled or recompleted on every standard or non-standard unit in the Cedar Hill-Fruitland Basal Coal Pool shall be located in the NE/4 or SW/4 of a single governmental section and shall be located not closer than 790 feet to any outer boundary of the tract nor closer than 130 feet to any quarter-quarter section or subdivision inner boundary.

RULE 5. The Division Director may grant an exception to the requirements of Rule 4 without notice and hearing when an application has been filed for an unorthodox location necessitated by topographical conditions or the recompletion of a well previously drilled to another horizon. All operators offsetting the proration unit shall be notified of the application by registered or certified mail, and the application shall state that such notice has been furnished. The Director may approve the application upon receipt of written waivers from all operators offsetting the proration unit or if no objection to the unorthodox location has been entered within 20 days after the Director has received the application.

RULE 6. That any subsequent well drilled or recompleted in an existing Cedar Hill-Fruitland Basal Coal standard or non-standard unit shall be authorized only after notice and hearing.

IT IS FURTHER ORDERED:

(3) That an exception is hereby granted to the Special Rules and Regulations for the Cedar Hill-Fruitland Basal Coal Pool to permit Amoco Production Company to locate its Cahn Gas Com Well No. 1, located 1030 feet from the North line and 1600 feet from the West line of Section 33, Township 32 North, Range 10 West, NMPM, San Juan County, New Mexico, at an unorthodox gas well location in the NW/4 of said Section 33.

(4) That any well drilling to or completed in the Basal Coal member of the Fruitland formation within the Cedar Hill-Fruitland Basal Coal Pool or within one mile of said pool either on or before August 1, 1984, that will not comply with the well location requirements of Rule 4 is hereby granted an exception to the requirements of said rule. The operator of any such well shall notify the Aztec District Office of the Division, in writing, of the name and location of any such well on or before November 1, 1984.

(5) That the vertical limits of the Mount Nebo-Fruitland Pool (created by Division Order No. R-4690, dated December 6, 1973, as amended by Division Order Nos. R-5843 and R-7046, dated November 2, 1978, and August 6, 1982, respectively) are hereby redefined to include the Fruitland formation with the exception of the Basal Coal member as designated on the type log of the Amoco Production Company Schneider Gas Com "B" Well No. 1, as described in Ordering Paragraph No. (1) above.

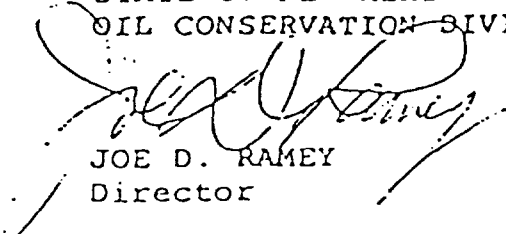
Order No. R-7588

(6) That this case shall be reopened at an examiner hearing in February, 1986, at which time the operators in the subject pool may appear and show cause why the Cedar Hill-Fruitland Basal Coal Pool should not be developed on 160-acre spacing and proration units.

(7) That jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

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

STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION



JOE D. RAMEY  
Director

S E A L

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1111111111

Dresser Atlas



DRESSER

COMPENSATED DENSILOG®  
COMPENSATED NEUTRON  
GAMMA RAY

FILE NO.

Company AMOCO PRODUCTION COMPANY  
Well SAMMONS GAS COM I NO. 1

API NO.  
3004526087

Field CEDAR HILL FRUITLAND  
County SAN JUAN State N.M.

Location:  
945' FNL & 1580' FEL  
NE NE  
Sec 6 Twp 31N R9e 10W

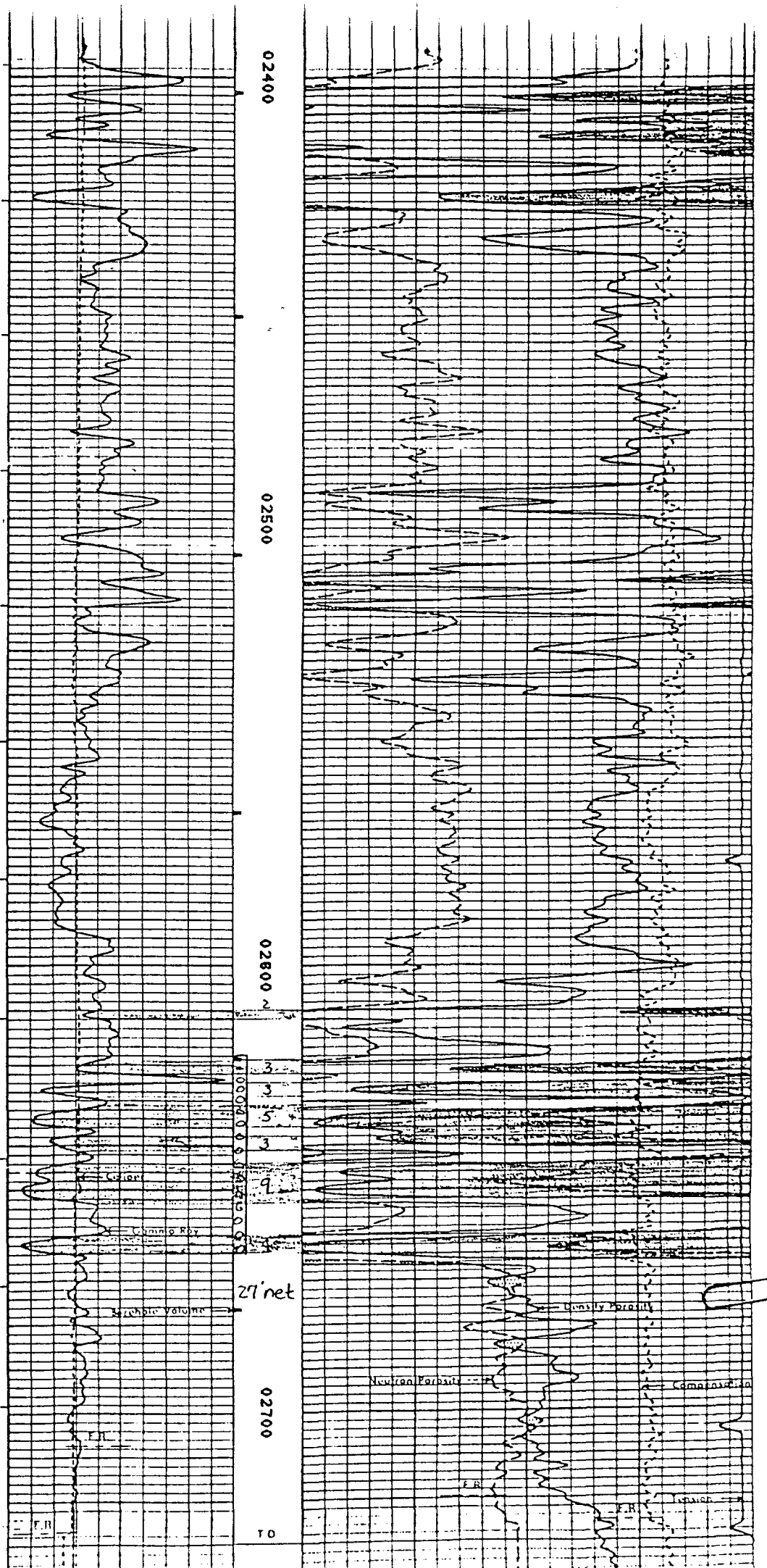
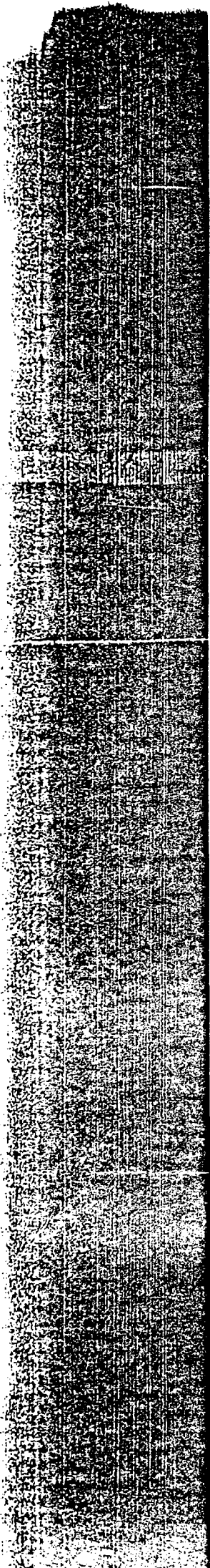
OTHER SERVICES  
DIFL-GR  
BHC-AC-GR

PERMANENT DATUM G.L. ELEV. 5888  
LOGGING MEASURED FROM K.B. 12 FT. ABOVE P.O.  
DRILLING MEASURED FROM K.B.

ELEVATIONS  
KB 5900  
DF 5900  
GL 5888

DATE	1-22-85	
RUN	1	
SERVICE ORDER	90809	
DEPTH-DRILLER	2730	
DEPTH-LOGGER	2730	
BOTTOM LOGGED INTERVAL	2728	
TOP LOGGED INTERVAL	1730	
CASING - DRILLER	9 5/8	Ø 300
CASING - LOGGER	302	
BIT SIZE	8 3/4	
TYPE FLUID IN HOLE	L.S.N.D.	
DENSITY AND VISCOSITY	9.0	36
PH AND FLUID LOSS	7.6	11.0
SOURCE OF SAMPLE	FLOWLINE	
RM AT MEAS. TEMP.	.58	Ø 60
RMF AT MEAS. TEMP.	.96	Ø 62
RMC AT MEAS. TEMP.	.754	Ø 62
SOURCE OF RMF / RMC	MEASURED	MEASURED
RM AT BHT	.4	Ø <100
TIME SINCE CIRCULATION	5.0 HRS	
MAX. REC. TEMP. DEG. F	<100	
EQUIP. NO. / LOC.	HL 6361	FARMINGTON
RECORDED BY	HEWITT	
WITNESSED BY	MR. JOHN HATCH	

FIELD PRINT



APPLICANT'S SWORN STATEMENT

STATE OF COLORADO )  
 ) ss  
COUNTY OF DENVER )

R. J. Criswell, having first been duly sworn, states that he is a responsible official of the Applicant, Amoco Production Company, and further states:

1. That the surface drilling of Sammons Gas Com. "I" No. 1 for which Applicant seeks a determination, was commenced on or after July 16, 1979;
2. That the gas is being produced from a Coal Seam.
3. That there is no further information of which Applicant has knowledge inconsistent with the conclusions stated herein.

DATED this 7th day of June, 1985.

AMOCO PRODUCTION COMPANY, Applicant

BY: RJ Criswell

TITLE: Division Production Manager

ADDRESS: Amoco Production Company

Amoco Building

Denver, CO 80202

SUBSCRIBED, SWORN TO, AND ACKNOWLEDGED before me this 7th day of June, 1985.

Mary Ann Rau  
Notary Public

My Commission expires:

8-23-88

**AMOCO BUILDING  
1670 BROADWAY  
DENVER, CO 80202**

CERTIFICATE OF MAILING

I hereby certify that a true and correct copy of the New Mexico Oil Conservation Division's Form C-132 and the Form FERC-121 for the Sammons Gas Com. "I" No. 1 well was mailed, postage prepaid, to each working interest owner and each party to the gas purchase contract, as listed below.

PURCHASER: El Paso Natural Gas Company  
P. O. Box 1492  
El Paso, TX 79978

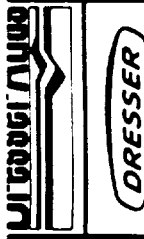
## WORKING INTEREST OWNER:

Moore, Wayne and Jo Ann  
403 North Marienfeld  
Midland, Texas 79701

Paul Umbach Estate  
Box 1648  
Boulder, CO 80306

AMOCO PRODUCTION COMPANY

BY: Stephen D. Ring  
Stephen D. Ring, Attorney  
Amoco Building  
Denver, Colorado 80202



# Dual Induction Focused Log

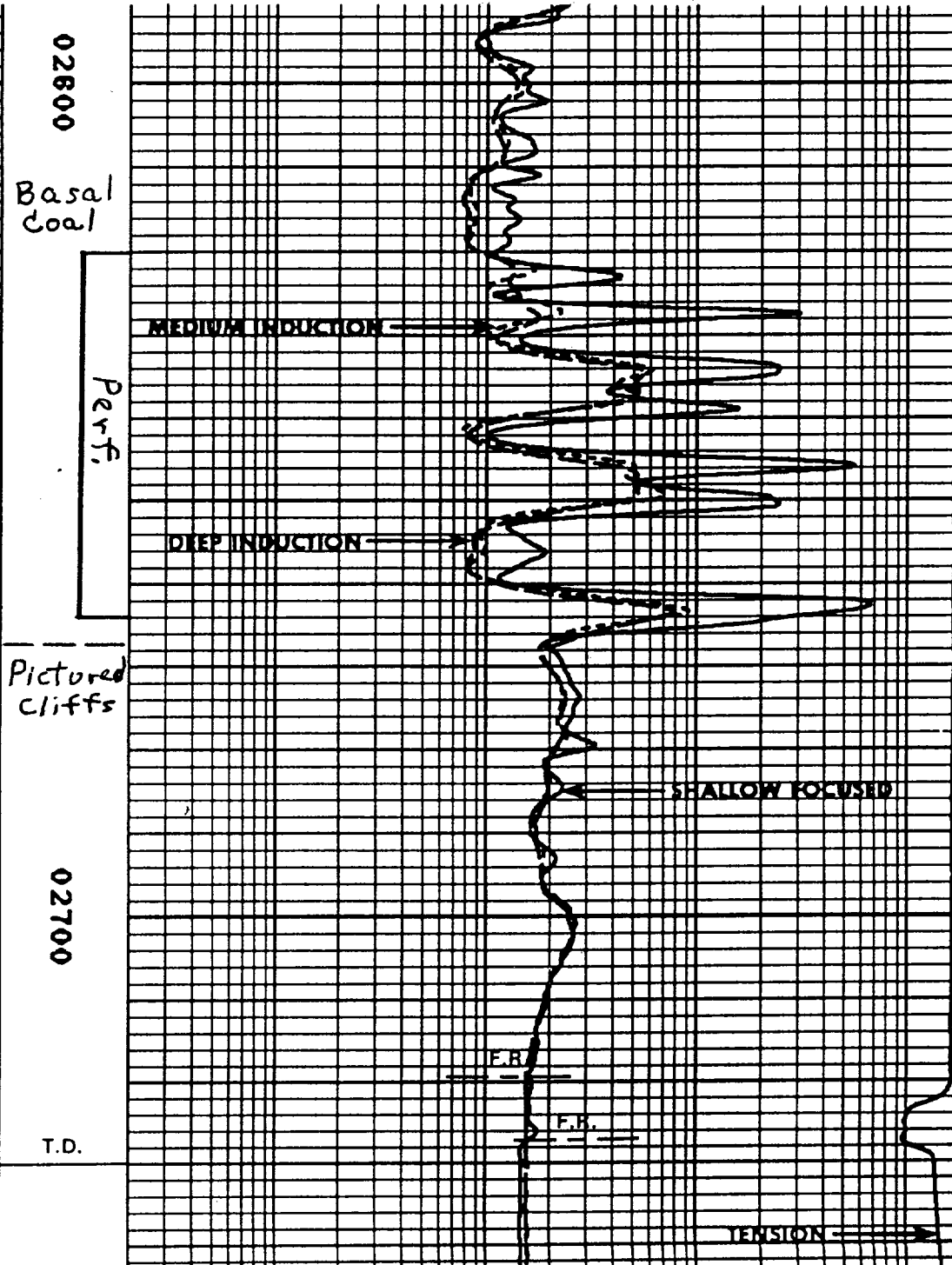
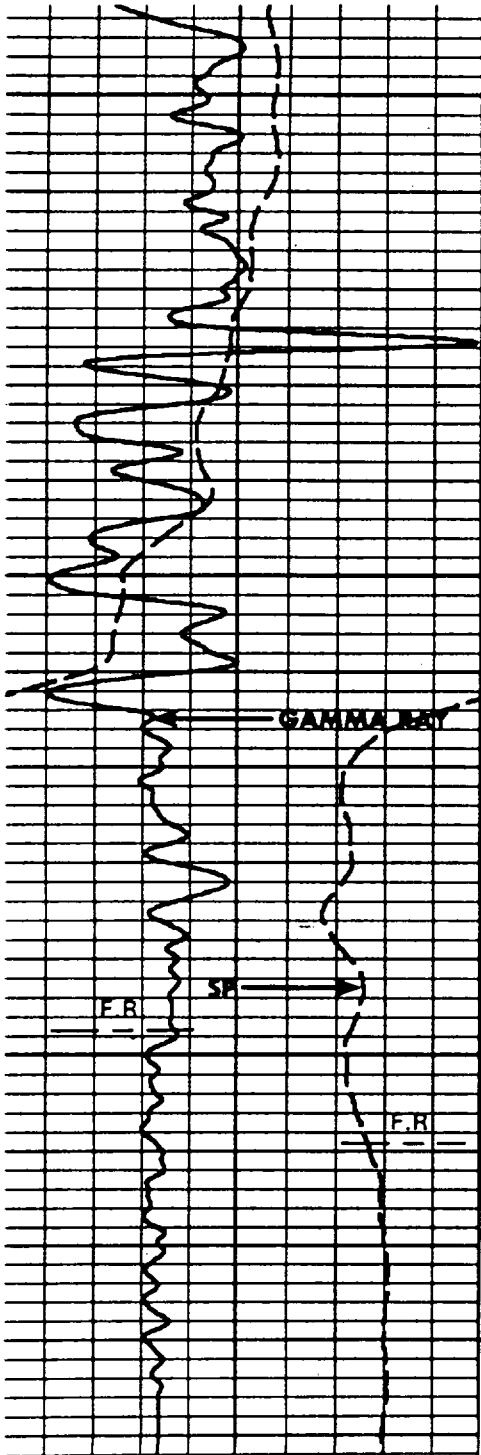
# R

FILE NO. **FM-6909**  
 API NO. **30-045-26087**  
 COMPANY **AMOCO PRODUCTION COMPANY**  
 WELL **SAMMONS GAS COM I NO. 1**  
 FIELD **CEDAR HILL FRUITLAND**  
 COUNTY **SAN JUAN** STATE **NEW MEXICO**  
 LOCATION: **945' FNL, 1580' FEL NE, NE**  
 SEC. **6** TWP **31N** RGE **10W**  
 Other Services: **CDL/CN/GR BHC/AL/GR**

Permanent Datum **G.L.** Elev. **5888**  
 Log Measured from **K.B.** **12** Ft. Above Permanent Datum  
 Drilling Measured from **K.B.**

Date **1-22-85**  
 Run No. **ONE**  
 Service Order **90809**  
 Depth - Driller **2730**  
 Depth - Logger **2730**  
 Bottom Logged Interval **2728**  
 Top Logged Interval **302**  
 Casing - Driller **9 5/8 @ 300**  
 Casing - Logger **302 @ 866 @**  
 Bit Size **8 3/4**

Type Fluid in Hole **L.S.N.D.**  
 Density and Viscosity **9.0 36**  
 pH and Fluid Loss **7.6 11.0c**  
 Source of Sample **FLOWLINE**  
 Rm @ Meas. Temp. **.580 @ 60°F**  
 Rmf @ Meas. Temp. **.960 @ 62°F**  
 Rmc @ Meas. Temp. **.754 @ 62°F**  
 Source of Rmf and Rmc **MEASURED**  
 Rm @ BHT **.4 @ <100F**  
 Time Since Circ. **2.5 HOURS**  
 Max. Rec. Temp. Deg. F. **<100 °F**  
 Equip. No. and Location **6361 FARM**  
 Recorded By **HEWITT**  
 Witnessed By **HATCH**





COMPENSATED DENSILOG® Exhibit  
 COMPENSATED NEUTRON  
 GAMMA RAY 9B

FILE NO.

API NO.

3004526087

Company AMOCO PRODUCTION COMPANY  
 Well SAMMONS GAS COM I NO. 1  
 Field CEDAR HILL FRUITLAND  
 County SAN JUAN State N.M.

Location:

945' FNL & 1580' FEL  
 NE NE

SEC 6 TWP 31N R0010W

OTHER SERVICES

DIFL-GR  
 BHC-AC-GR

PERMANENT DATUM G.L. ELEV. 5888

LOGGING MEASURED FROM K.B. 12 FT. ABOVE P.O.

DRILLING MEASURED FROM K.B.

ELEVATIONS

KB 5888  
 OF 5900  
 (GENERAL) 5888

DATE	1-22-85	BEFORE EXAMINER'S DIVISION
RUN	1	
SERVICE ORDER	90800	OIL COMPANY
DEPTH-DRILLER	2730	EXHIBIT NO. 9B
DEPTH-LOGGER	2730	
BOTTOM LOGGED INTERVAL	2728	CASE NO. 8666
TOP LOGGED INTERVAL	1730	
CASING - DRILLER	9 5/8	
CASING - LOGGER	302	
BIT SIZE	8 3/4	
TYPE FLUID IN HOLE	L.S.N.O.	
DENSITY AND VISCOSITY	9.0	36
PH AND FLUID LOSS	7.6	11.0
SOURCE OF SAMPLE	FLOWLINE	
RM AT MEAS. TEMP.	.58	0 60
RMF AT MEAS. TEMP.	.96	0 62
RMC AT MEAS. TEMP.	.754	0 62
SOURCE OF RMF / RMC	MEASURED	MEASURED
RM AT 8HT	.4	0 <100
TIME SINCE CIRCULATION	5.0 HRS	
MAX. REC. TEMP. DEG. F	<100	
EQUIP. NO. / LOC.	HL 6361	FARMINGTON
RECORDED BY	HEWITT	
WITNESSED BY	MR. JOHN HEWITT	

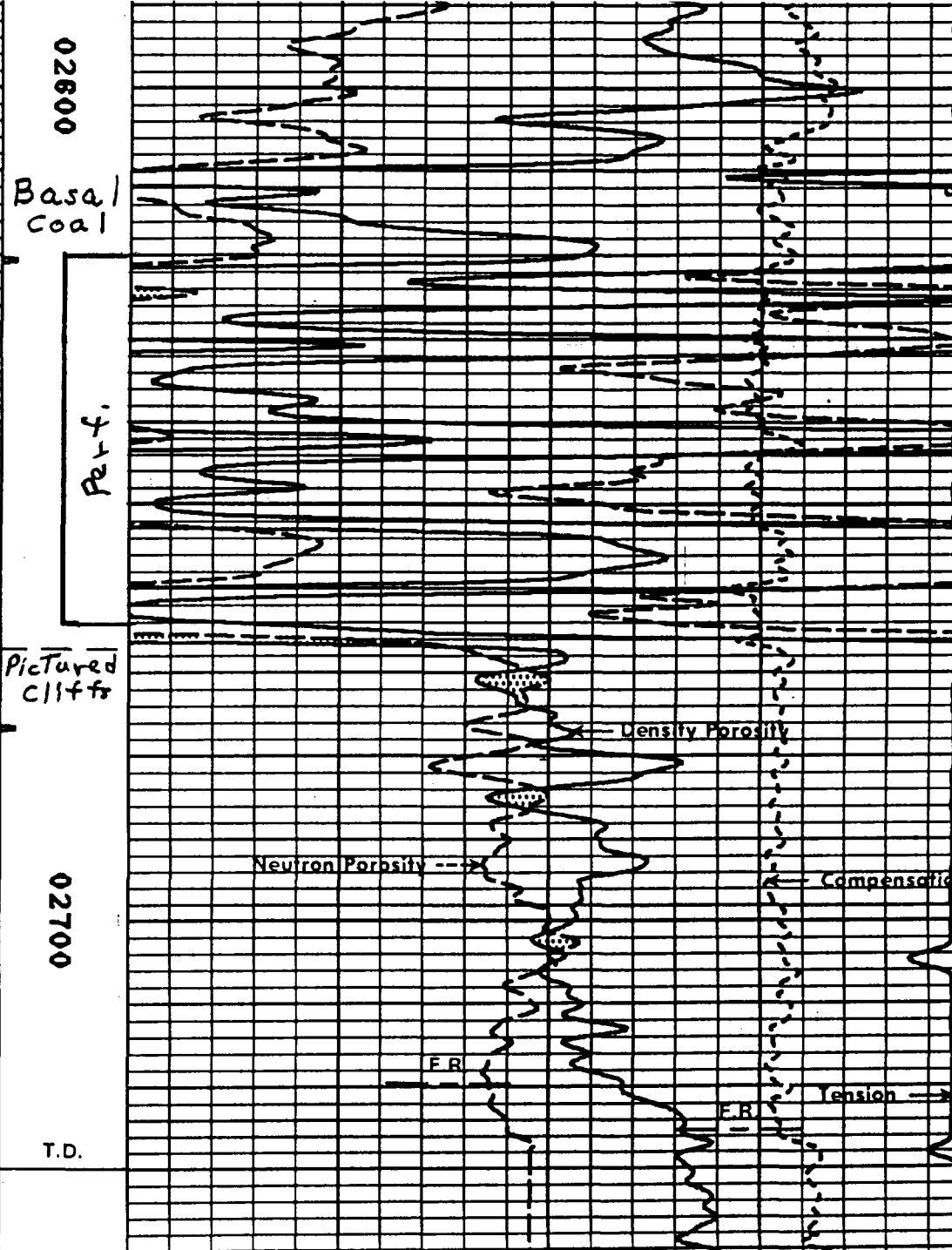
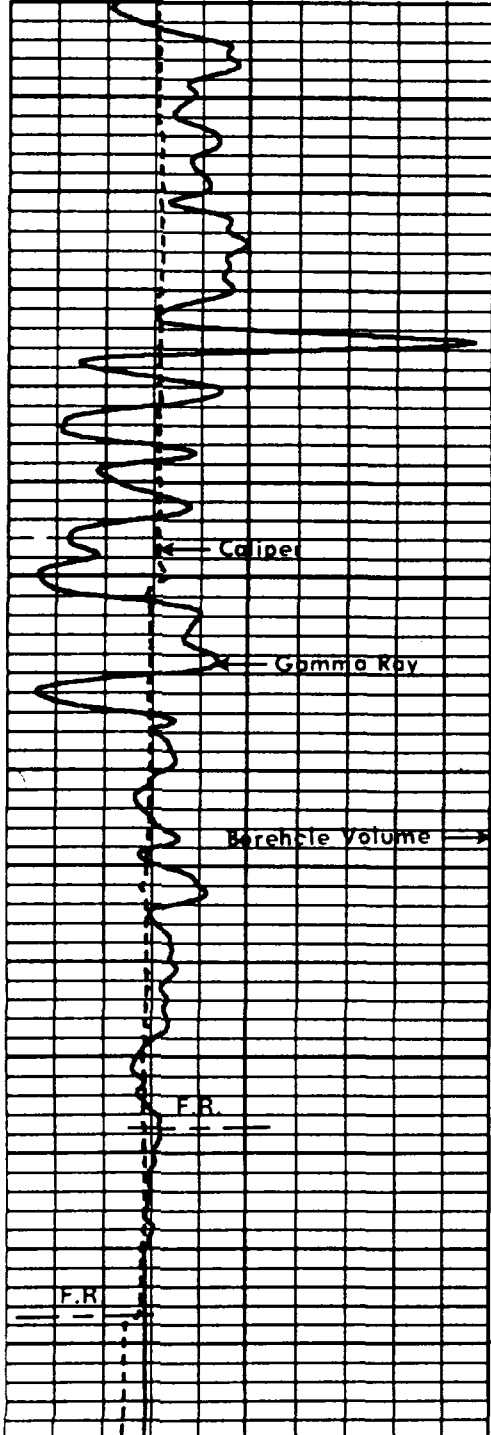


Exhibit 12

AMOCO PRODUCTION COMPANY  
 DENVER REGION  
 NMOCD HEARING  
 January 18, 1984  
 Case 8015  
 GAS ANALYSES - MAIN BASAL COAL  
 MOUNT NEBO FRUITLAND FIELD  
 CAHN GAS COM NO. 1  
 1,030' FNL x 1,600' FWL  
 SECTION 33-T32N-R10W  
 SAN JUAN COUNTY, NEW MEXICO

BEFORE THE HONORABLE  
 OIL COURT  
 CASE NO. 8666

Date Tested	Helium	Nitrogen	Carbon Dioxide	Methane	Ethane	Propane	Isobutane	Normal Butane	Pentane	Hexane +	BTU	Gr
03/77	0.00	0.00	7.33	92.32	0.35	0.00	0.00	0.00	0.00	0.00	939	0.6262
07/79	0.00	1.38	6.39	92.02	0.20	0.00	0.00	0.00	0.00	0.00	934	0.6225
09/80	0.00	0.05	5.68	93.62	0.48	0.12	0.03	0.01	0.00	0.01	963	0.6140
12/81	0.00	0.31	1.89	85.35	7.08	2.83	0.35	0.84	0.51	0.84	1,160	0.6846
12/81	0.00	0.24	1.64	84.98	7.49	3.03	0.41	0.90	0.67	0.64	1,171	0.6863
08/82	0.02	0.00	6.39	93.30	0.29	0.00	0.00	0.00	0.00	0.00	947	0.6168
08/82	0.02	0.00	6.38	93.38	0.22	0.00	0.00	0.00	0.00	0.00	947	0.6164
09/82	0.00	0.43	5.30	93.16	0.67	0.25	0.05	0.05	0.03	0.06	971	0.6170
11/82	0.00	0.00	6.63	93.17	0.16	0.04	0.00	0.00	0.00	0.00	945	0.6190
11/82	0.00	0.14	6.37	93.30	0.16	0.03	0.00	0.00	0.00	0.00	946	0.6170
11/82	0.09	0.00	6.33	93.37	0.18	0.03	0.00	0.00	0.00	0.00	947	0.6157

STATE GAS COM "BX" NO. 1  
 SW NE SW 32-32N-10W

07/83	-	0.11	7.05	92.82	0.17	0.03	0.01	0.00	0.00	0.01	944	0.6250
-------	---	------	------	-------	------	------	------	------	------	------	-----	--------

STATE GAS COM "G" NO. 1  
 SW NE SW 27-32N-10W

08/83	-	0.35	3.76	92.26	2.24	0.80	0.13	0.20	0.12	0.14	1,019	0.6220
-------	---	------	------	-------	------	------	------	------	------	------	-------	--------

Note: Numbers are volume %

SMA/ljp  
 011384  
 TAB851

AMOCO PRODUCTION COMPANY  
DENVER REGION  
NMOCD HEARING  
January 18, 1984  
Case 8015

GAS ANALYSES  
MOUNT NEBO FRUITLAND FIELD  
SAN JUAN COUNTY, NEW MEXICO

Pictured Cliff Wells	Date Tested	Helium	Nitrogen	Carbon Dioxide	Methane	Ethane	Propane	Isobutane	Normal Butane	Pentane	Hexane +	BTU	Gr
Martinez Gas Com A1 NW SE SW 32-32N-10W	09/77 12/81 11/82	0.00 0.09 0.00	0.15 0.17 0.33	1.37 1.52 1.70	89.07 86.10 87.99	5.83 6.57 5.74	2.12 2.53 2.20	0.34 0.32 0.32	0.54 0.63 0.57	0.32 0.35 0.30	0.26 1.72 0.85	1,115 1,184 1,130	0.6440 0.6930 0.6625
Gardner Gas Com No. 1 SW NE SE 33-32N-10W	12/81 09/82	0.30 0.00	0.21 0.22	1.74 1.78	89.44 90.02	4.75 4.86	1.60 1.89	0.11 0.30	0.48 0.44	0.27 0.24	1.10 0.25	1,114 1,095	0.6524 0.6370
*Valentine Gas Com B1 SW NE NE 32-32N-10W	09/79 12/81 09/82	0.17 0.00 0.00	0.12 0.25 0.20	5.91 5.77 5.56	93.70 93.26 93.21	0.00 0.42 0.54	0.07 0.09 0.28	0.00 0.03 0.05	0.00 0.04 0.07	0.00 0.04 0.04	0.03 0.10 0.05	950 964 971	0.6122 0.6190 0.6190
Leeper Gas Com C1 NE SE SW 34-32N-10W	10/80	0.00	0.15	1.49	90.16	5.09	1.93	0.33	0.42	0.25	0.18	1,098	0.6340

Note: Numbers are volume % \*Believed to be in communication with Fruitland Coal.



AMOCO PRODUCTION COMPANY  
DENVER REGION  
NMOCD HEARING  
January 18, 1984  
Case 8015  
GAS ANALYSES  
MOUNT NEBO FRUITLAND FIELD  
SAN JUAN COUNTY, NEW MEXICO

	<u>Date Tested</u>	<u>Helium</u>	<u>Nitrogen</u>	<u>Carbon Dioxide</u>	<u>Methane</u>	<u>Ethane</u>	<u>Propane</u>	<u>Isobutane</u>	<u>Normal Butane</u>	<u>Pentane</u>	<u>Hexane +</u>	<u>BTU</u>	<u>Gr</u>
<u>Fruitland Wells</u>													
Keys Gas Com E1	03/77	0.00	0.09	1.09	95.06	1.54	0.82	0.23	0.46	0.48	0.23	1,066	0.6070
SE NW NW 27-32N-10W	12/81	0.13	0.03	0.77	93.63	1.51	0.97	0.25	0.63	0.86	1.22	1,125	0.6413
	12/81	0.00	0.00	0.80	93.36	1.57	0.90	0.08	0.68	0.99	1.62	1,143	0.6531
	06/82	0.00	0.03	1.15	94.66	1.81	0.93	0.24	0.46	0.55	0.17	1,070	0.6090
Holmberg Gas Com A1	12/81	0.00	0.00	0.18	92.85	2.11	1.49	0.16	0.76	0.69	1.76	1,162	0.6555
SE NW NE 28-32N-10W	12/81	0.17	0.03	0.14	93.23	2.09	1.65	0.44	0.73	0.60	0.92	1,131	0.6352
	09/82	0.00	0.03	0.19	94.48	2.11	1.62	0.45	0.54	0.39	0.19	1,096	0.6100

Note: Numbers are volume %

Exhibit 13

REPORT CYP DIST 40 DATE RUN 85-08-22-15

MEASUREMENT DEPARTMENT  
METER HISTORY

BUS. MO 85-08

PAGE 1

STATION LEVEL

STATION 85-27-10

MASTER	CLASS	SITE	STATE	CNTY	P/L	P/L DIST	P/L M.P. OFF	DIV OFF	DIST MEAS	CHT RUN	PLANT	CUST OPER	INTRA STATE	CRIT MTR	DIV TOT	COMP CDE
AFR	670	A	31	045	0000	0.0	4	03	02	84		0203		2	4	1

AFS NAME LINE 1

~~SANBORN-CAD-CONE-1-#1-ERT~~

BEFORE WORKING ON THIS TOWER  
OIL COCKS MUST BE CLOSED  
DATE 8/22/85  
CASE NO. 8666

AFU	ATMOS PRESS	AMB TEMP	CAL/GRV DIST	HTU CD	STD CALC TEMP	CHT CHG GROUP	LAT	CONT HR	MAOP	BTU/TY	MTR OWN	ETH ANE	HEX ANE+	TOTAL GPM	BTU	SPEC GRAV
	11.90	52	000	1	00	04	37	12	2000	D	1	4.11	.24	1.939	1069	.641

CHROMATOGRAPH

EFF. DATE	TYP	TST LIFE	LOC MOD	H2S GRN	H2S	PRO PANE	ISO BUT	NORM BUT	ISO PEN	NORM PEN	METH ANE	C02	ETH ANE	HEX ANE+	TOTAL GPM	BTU	SPEC GRAV
85-05-28	13	03	M	0000	.00	1.55	.32	.37	.14	.10	89.95	3.03	4.11	.24	1.939	1069	.641

Exhibit 14

EL PASO NATURAL GAS COMPANY

RPT-ASL 292 CHROMATOGRAPHIC GAS ANALYSIS REPORT

RPT DATE 09 28 79

METER STA 90032

ANAL DATE 09 26 79

METER STATION NAME  
SAMMONS GAS COM G #1 PC

OPER 0203

TYPE CODE	SAMPLE DATE	EFF. DATE	USE MOS.	SCALE	H2S GRAINS	LOCATION
00	09 24 79	09 28 79	06	1	0000*	4 F 03

NORMAL  
MOL%

GPM

C O 2

01.53

0.000

H 2 S

00.00\*

0.000

N2

00.52

0.000

METHANE

87.48

0.000

ETHANE

06.41

0.000

PROPANE

02.45

0.000

ISO-BUTANE

00.39

0.000

NORM-BUTANE

00.62

0.195

ISO-PENTANE

00.19

0.079

NORM-PENTANE

00.14

0.051

HEXANE PLUS

00.27

0.118

TOTALS

100.00

2.949

SPECIFIC GRAVITY

0.655

MIXTURE HEATING VALUE

(BTU/CF @ 14.73 PSIA, 60 DEGREES, DRY) 1125

RATIO OF SPECIFIC HEATS

1.293

\* NO TEST SECURED FOR DETERMINATION H2S CONTENT.

BTU 1.713  
 GPM 0.674  
 CASE NO. 0.128  
 14  
 8666