

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

AMOCO'S EXHIBITS TO  
QUALIFY CERTAIN GAS  
AS "COAL SEAM" GAS

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



**Amoco Production Company**

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

Stephen D. Ring  
Attorney

March 25, 1985

Michael Stogner, Esq.  
State of New Mexico  
Oil Conservation Division  
P. O. Box 2088  
State Land Office Building  
Santa Fe, NM 87501

*Case 8566*

Re: NGPA Section 107  
(coal seam) application  
for Leeper Gas Com.  
D #1R

Dear Mike:

By a letter dated March 18, 1985, Amoco submitted an application for a determination that gas from the captioned well qualifies as "coal seam gas" for purposes of Section 107 of the NGPA. Understanding that at the present time the Division prefers not to handle such applications administratively, Amoco requests that you set the application to be heard by an examiner on April 24, 1985. (Amoco's Section 107 "coal seam" application for another well, namely the Woods Gas Com. A No. 1 Well, is already set to be heard on that date.)

By copy of this letter to Mr. Bill Carr I am asking him to enter an appearance on behalf of Amoco in the proceedings concerning the captioned well, and to permit my "association" with him in order that I may conduct the examination of Amoco's witness at the April 24 hearing.

Please acknowledge receipt of this letter by time-stamping the enclosed duplicate and returning it to me in the enclosed envelope. Thanks very much.

Very truly yours,

*Stephen D. Ring*  
Stephen D. Ring

SDR/gmm

cc: Bill Carr

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,  
ORIGINAL SIGNED BY  
STEPHEN D. RING

Stephen D. Ring

SDR/mat  
Encls.

cc w/att: Department of Energy and Minerals - District Office  
El Paso Natural Gas Company (Purchaser)

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bcc: B.A. Colke  
R.T. Taylor

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: \_\_\_\_\_

2. Name of Operator Amoco Production Company		3A. Indicate Type of Lease STATE <input type="checkbox"/> REC <input checked="" type="checkbox"/>
3. Address of Operator Amoco Building, 1670 Broadway, Denver, CO 80201		3. State Oil & Gas Lease No.  
4. Location of Well Survey LETTER <u>B</u> LOCATED <u>1155</u> FEET FROM THE <u>North</u> LINE AND <u>1745</u> FEET FROM THE <u>East</u> LINE OF SEC. <u>4</u> TWP. <u>31N</u> SEC. <u>10W</u> RMPM		7. Unit Agreement Name  
11. Name and Address of Purchaser(s) El Paso Natural Gas Company, P.O. Box 1492, El Paso, TX 79978		8. Form or Lease Name Wood Gas Com. "A"
		9. Well No. 1
		10. Field and Pool, or Wildcat Mt. Nebo Fruitland
		12. County San Juan

**WELL CATEGORY INFORMATION**

Check appropriate box for category sought and information submitted.

- Category(ies) Sought (By NGPA Section No.) 107 (coal seam gas) \*Please note that the information contained in this application is confidential.
- 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
- 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 (Coal Seam 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

Date 8-17-84 Manager

**FOR DIVISION USE ONLY**

- ☐ Approved
- ☐ Disapproved

The information contained herein includes all of the information required to be filed by the applicant under Subpart B of Part 274 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	6	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. 96,176 Spud Date 12-14-83 \*Price to be redetermined.

**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.)	30- 045 - 25820 -																
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	107 Section of NGPA		Category Code														
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	2626 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> City				<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>Mr. Nebo Fruitland</u> Field Name <u>San Juan</u> County																
(b) For OCS wells:	Area Name _____ Block Number _____  Date of Lease: <table style="margin-left: auto; margin-right: auto;"> <tr> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> </tr> <tr> <td align="center">Mo.</td> <td align="center">Day</td> <td align="center">Yr.</td> <td colspan="3"></td> </tr> </table> OCS Lease Number _____											Mo.	Day	Yr.			
Mo.	Day	Yr.															
(c) Name and identification number of this well: (35 letters and digits maximum.)	<u>Wood Gas Com, "A" 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>El Paso Natural Gas Company</u> Name				<u>005708</u> Buyer Code												
(b) Date of the contract:	<u>01 19 78</u> Mo. Day Yr.																
(c) Estimated total annual production from the well:	182 Million Cubic Feet																
		(a) Base Price	(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	_____	_____	_____	_____												
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	S/MMBTU	_____	DEREGULATED	_____	_____												
9.0 Person responsible for this application:	<u>J. H. Goble</u> Name																
Agency Use Only	<u>Regional Natural Gas Marketing Manager</u> Title																
Date Received by Juris. Agency	<u>J. H. Goble</u> Signature																
Date Received by FERC	<u>8-17-84</u> Date Application is Completed																
	<u>(303) 830-4311</u> Phone Number																

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U.S.G.S.	
LAND OFFICE	
OPERATION	

RECEIVED  
NOV 2 1983

Will file

1. Indicate Type of Lease  
State ☐ Fee ☒

2. Lease Oil &amp; Gas Lease No.

3. Lease Agreement Name

4. Term of Lease Name

Wood Gas Com "A"

5. Well No.

1

10. Field and Pool, or Wildcat

Mt. Nebo Fruitland

12. County

San Juan

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work b. Type of Well OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> c. Name of Operator AMOCO PRODUCTION COMPANY d. Address of Operator 501 Airport Drive, Farmington, N.M. 87401 e. Location of Well UNIT LETTER B LOCATED 1155 FEET FROM THE North LINE 1745 FEET FROM THE East LINE OF SEC. 4 TWP. 31N RGE. 12W NMPM	1b. Proposed Depth 2700' 15a. Formation Fruitland 16. History of C.T. Rotary 17. Elevations (Show whether D.P., K.I., etc.) 5833' 18a. Elms & Status Plug. Bond Statewide 19. Drilling Contractor Unknown 20. Approx. Date Work will start As soon as permitted
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## PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12 1/2"	9 5/8"	32.3# K55	250'	250	surface
8 3/4"	7"	23# K55	2576'	700	surface
8 3/4"	Screen liner		2576'-2630'	Gravel pack	2576'

Amoco proposes to drill the above well to develop the Fruitland Coal gas reserves. 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. A copy of all logs will be filed upon completion. Amoco's standard blowout prevention will be employed; see attached drawing for blowout preventer design.

The gas from this well is dedicated to El Paso Natural Gas under Contract 96176.

CONFIDENTIAL

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW ZONE. 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.

Signed Original Signed By D. D. Lawson Title District Administrative Supervisor Date 10-17-83  
(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>WOOD GAS COM "A"</b>			Well No. <b>1</b>
Unit Letter <b>B</b>	Section <b>4</b>	Township <b>31N</b>	Range <b>10W</b>	County <b>San Juan</b>		
Actual Footage Location of Well: <b>1155</b> feet from the <b>North</b> line and <b>1745</b> feet from the <b>East</b> line						
Ground Level Elev. <b>5833</b>	Producing Formation <b>Fruitland</b>		Pool <b>Mt. Nebo Fruitland</b>		Dedicated Acreage <b>160</b> Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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 \_\_\_\_\_

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.

Sec.		1155'	
		1745'	
4			

CERTIFICATION

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

Original Signed By

D.D. Lawson

Name

Darrell Lawson

Position

District Adm. Supervisor

Company

Amoco Production Co.

Date

10-17-83

I hereby certify that the well location shown on this plat 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 10, 1983

Registered Professional Engineer  
and Land Surveyor

Fred B. Kory Jr. 5A



RSC

OIL CONSERVATION DIVISION

P. O. BOX 2488

SANTA FE, NEW MEXICO 87501

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

NAME OF WELL	
LOCATION	
DATE	
WELL NO.	
WELL TYPE	
OPERATOR	

1. Indicate Type of Lease  
State ☐ Fed ☒

2. Lease Unit & Cont. Lease No.

3. TYPE OF WELL  
Oil ☒ Gas ☐ Dry ☐ Other \_\_\_\_\_

4. TYPE OF COMPLETION  
New Well ☒ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Access ☐ Other \_\_\_\_\_

7. Unit Agreement Name

5. Name of Operator  
AMOCO PRODUCTION COMPANY

8. Term of Lease Name  
Wood Gas Com "A"

6. Address of Operator  
501 Airport Drive, Farmington, NM 87401

9. Well No.  
1

4. Location of Well

10. Field and Pool, or Wildcat  
Mt. Nebo Fruitland

UNIT LETTER B LOCATED 1155 FEET FROM THE North LINE AND 1745 FEET FROM East LINE OF SEC. 4 TWP. 31N REC. 10W

11. County  
San Juan

13. Date Spudded 12/14/83 16. Date T.D. Reached 12/26/83 17. Date Compl. (Ready to Prod.) 4/16/84 18. Elevations (L.F., H.H., K.T., G.K., etc.) 5846' KB 19. Elev. Casinghead 5833' GR

20. Total Depth 2694' 21. Plug Back T.D. 2656' 22. If Multiple Compl., How Many Single 23. Intervals Drilled By Rotary Tools 0-TD Cable Tools

24. Producing Interval(s), of this completion - Top, Bottom, Name 2589' - 2626' (Fruitland) 25. Was Directional Survey Made Yes

26. Type Electric and Other Logs Run Density-Neutron - GB, DIL-SP-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
13-3/8"	48#, H-40	275'	17-1/2"	720 cu. ft. Class "B" cement, w/ 2% CaC	
9-5/8"	32.3#, H-40	2363'	12-1/4"	1078 cu. ft. Class "B" 50/50 Poz cement tailed in w/ 118 cu. ft. Class "B" Neat cement.	

29. LINER RECORD 30. TUBING RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
7", 26#, K-55	2144'	2693'	128 cu. ft.		2-7/8"	2645'	None

31. Perforation Record (Interval, size and number)  
2589' - 2626', 12 jsf, .38", for a total of 444 holes.

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

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
	None

33. PRODUCTION

Time First Production 4-25-84 Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing Well Status (Prod. or Shut-in) Shut-in

Date of Test 4-26-84	Hours Tested 3 hours	Choke Size .75	Flowing, For Test (Flowing)	Oil - bbl. 24	Gas - MCF	Water - bbl.	Gas - Oil Ratio
Flow Tubing Press. 4 psig	Casing Pressure 12 psig	Calculated To-Flow Rate	Oil - bbl.	Gas - MCF *190	Water - bbl.	Oil Gravity - API (Corr.)	

34. Disposition of Case (SOL, used for tool, vented, etc.) TO BE SOLD Test Witnessed By J. J. BARNETT

35. List of Attachments  
\* Estimated

Original Signed By

B D Shaw

6A



R10W

T  
30  
N

T  
30  
N

T  
31  
N

T  
31  
N

5

34

3

Wood Gas Com "A" #1

8

9

10

R10W

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

API WELL NO. 30-045-25820 APPLICANT: Amoco Production Company

WELL NAME AND NO.: Wood Gas Com "A" #1

LOCATION OF WELL: Undesign. Fruitland San Juan New Mexico  
Field County State

LEGEND



Area Attributable To Well For  
Which Determination Is Sought

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

7A

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 13, 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.

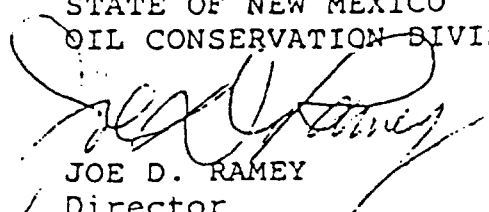


(6) That this case shall be reopened at an examiner hearing in February, 1986, at which time the operators in the subject pool may appear and show cause why the Cedar Hill-Fruitland Basal Coal Pool should not be developed on 160-acre spacing and proration units.

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

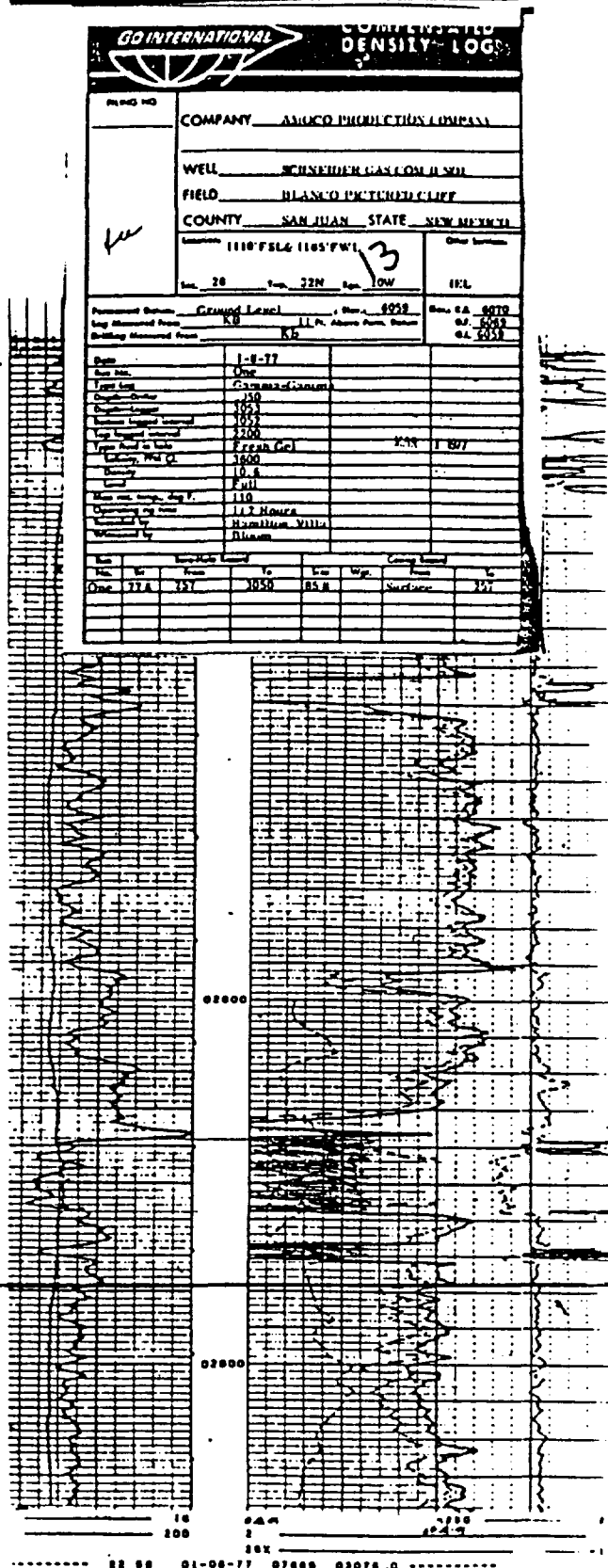
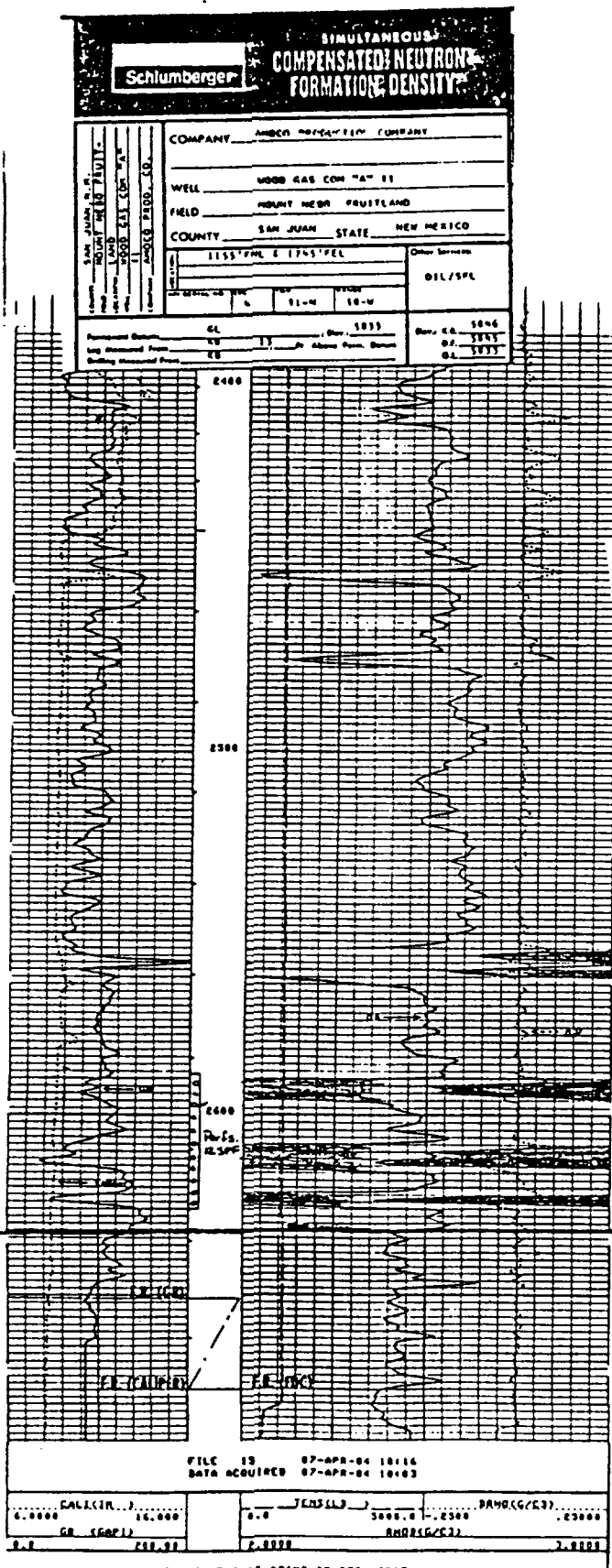
DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO  
OIL CONSERVATION DIVISION

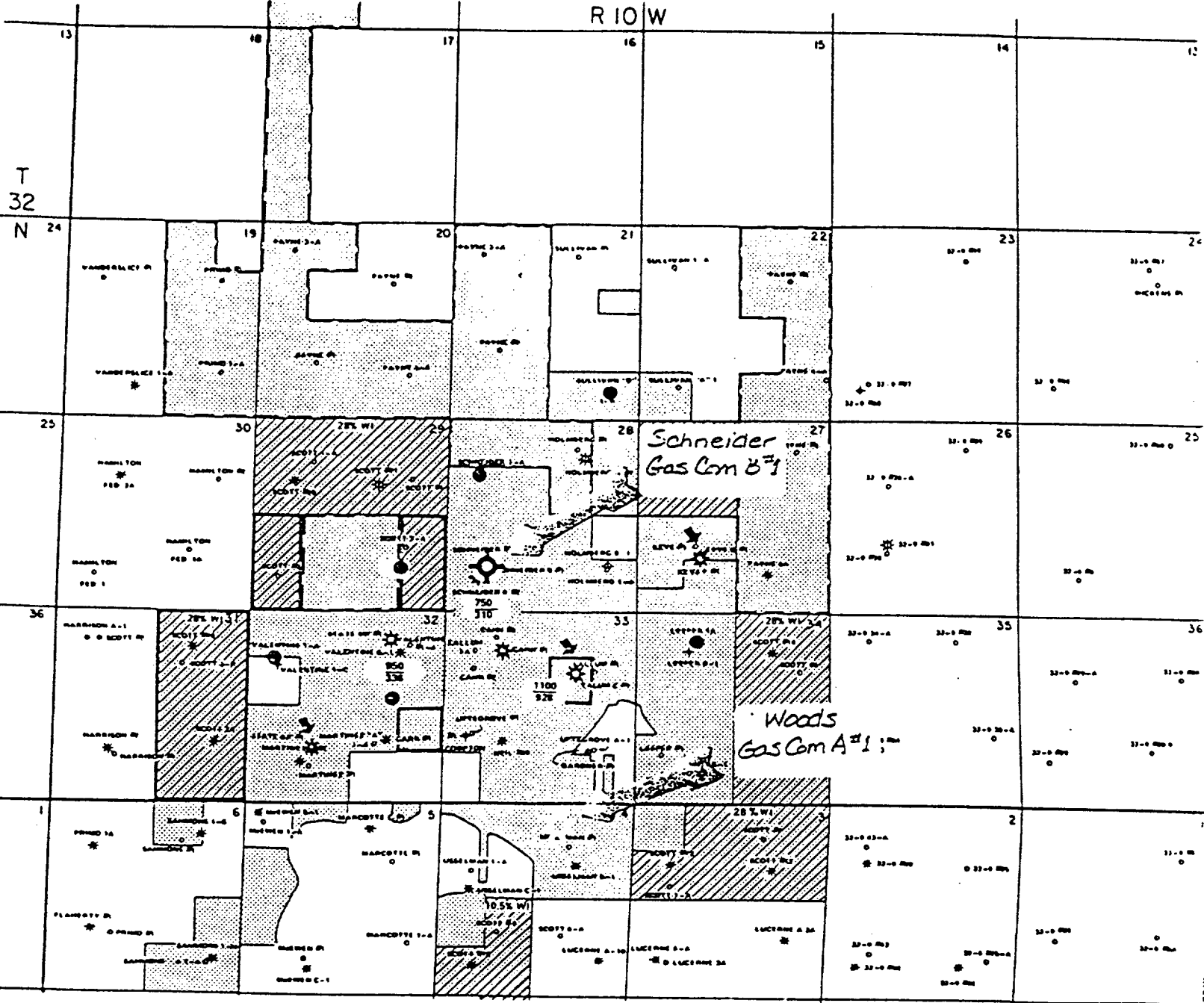
  
JOE D. RAMEY  
Director

S E A L

fd/



R 10 W



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 Wood Gas Com. "A" 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: NONE

AMOCO PRODUCTION COMPANY

ORIGINAL SIGNED BY  
BY: STEPHEN D. RING  
Stephen D. Ring, Attorney  
Amoco Building  
Denver, Colorado 80202

APPLICANT'S SWORN STATEMENT

107(CS)

STATE OF COLORADO )  
 ) SS  
COUNTY OF DENVER )

John C. Burnside, having first been duly sworn,  
states that he is a responsible official of the Applicant, Amoco Production  
Company, and further states:

1. That the gas from the Wood Gas Com. "A" No. 1 is being  
produced from a coal seam.

2. That there is no further information of which Applicant has  
knowledge inconsistent with the conclusions stated herein.

DATED this 11<sup>th</sup> day of August, 1984.

AMOCO PRODUCTION COMPANY, Applicant

BY: John C Burnside

TITLE: Division Production Manager

ADDRESS: Amoco Production Company

Amoco Building

Denver, CO 80202

SUBSCRIBED, SWORN TO, AND ACKNOWLEDGED before me this 11<sup>th</sup> day of  
August, 1984.

Mary Ann [Signature]  
Notary Public

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

My Commission expires:

My Commission Expires Sept. 12, 1984

# CORE LABORATORIES, INC. ANALYTICAL REPORT

1-8-85

PAGE 1 OF 1

ANALYSIS #:

AMOCO PRODUCTION CO.

JOB: A50004-1

TECH: RAC

LOCATION: CASPER, WYO.

WELL: WOODS A-1

FIELD:

COUNTY: SAN JUAN

STATE: NEW MEXICO

DATE SAMPLED: 12-28-84

SAMPLING POINT: FRUITLAND FORMATION

SAMPLE TEMP: DEG. F.

SAMPLE PRESSURE: 270 PSIA

REMARKS: #RC3555

## CHROMATOGRAPHIC ANALYSIS

	HOL	
	PERCENT	GPM *
CARBON DIOXIDE	2.82	
NITROGEN	0.13	
METHANE	94.04	
ETHANE	2.09	0.557
PROPANE	0.64	0.176
ISD-BUTANE	0.17	0.055
NORMAL BUTANE	0.11	0.035
ISD-PENTANE	0.00	0.000
NORMAL PENTANE	0.00	0.000
HEXANES	0.00	0.000
HEPTANES PLUS	-0.00	-0.000
TOTAL	100.00	0.823

\* GPM CALCULATED AT 14.696 PSIA

CALCULATED BTU/CU.FT. @ 14.730 PSIA

DRY BASIS: 1014

WET BASIS: 996

CALCULATED BTU/CU.FT. @ 14.696 PSIA

DRY BASIS: 1012

WET BASIS: 994

CALCULATED SPECIFIC GRAVITY: 0.6021

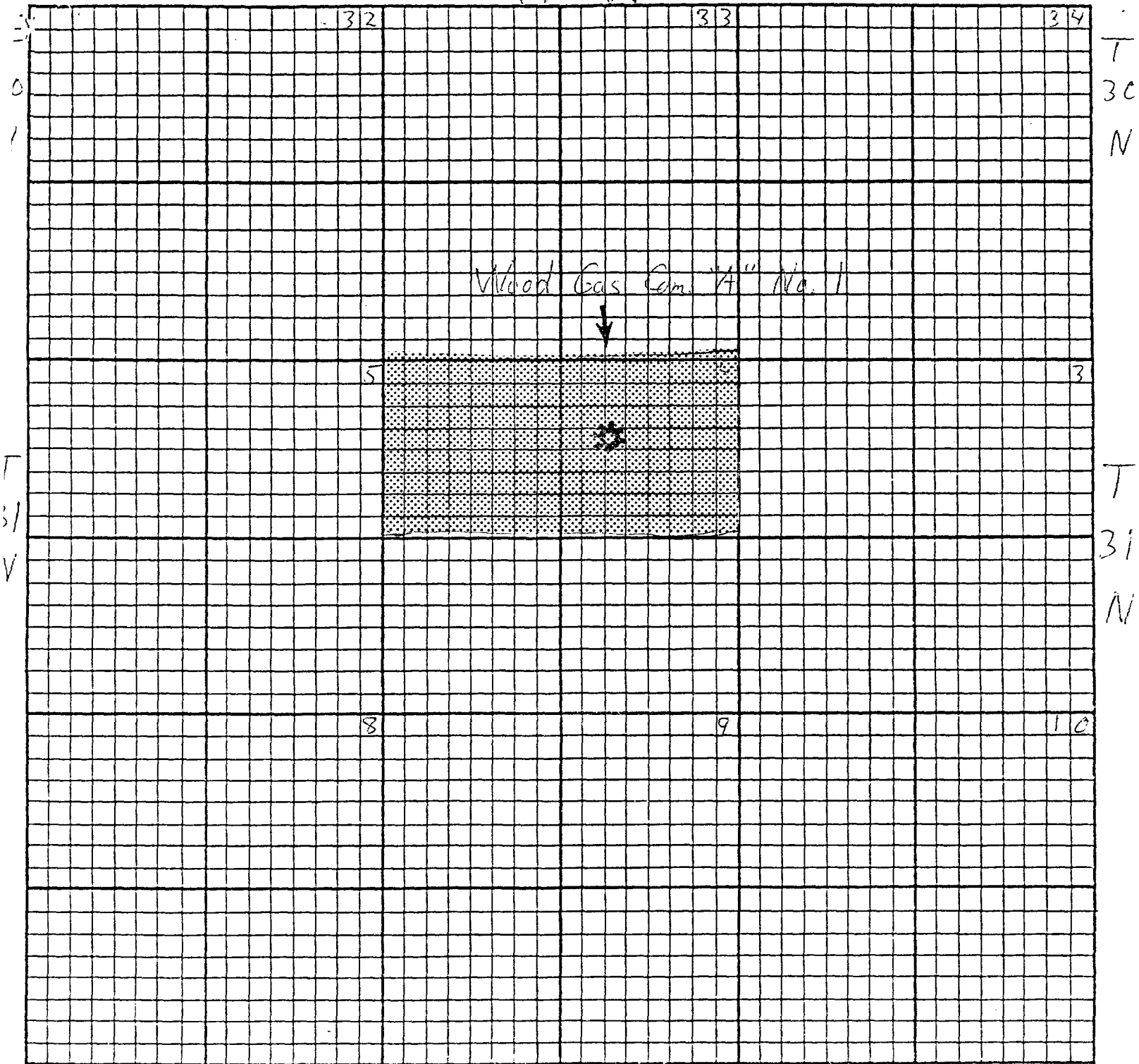
(AIR = 1.00)

COMPRESSIBILITY FACTOR: .997866

These analyses, opinions or interpretations are based on observations and material supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or representations, as to the productivity, proper operations, or profitability of any oil, gas, coal or other mineral, property, well or sand in connection with which such report is used or relied upon.

Exhibit 15A

R 10 W



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

API WELL NO.: 30-045-25820 APPLICANT: Amoco Production Company

WELL NAME AND NO.: Wood Gas Com. "A" No. 1

LOCATION OF WELL: Mt. Neko Fruitland - San Juan New Mexico  
Field County State

LEGEND



Area Attributable To Well For  
Which Determination Is Sought

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