1	STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT								
2	OIL CONSERVATION DIVISION STATE LAND OFFICE BUILDING								
3	SANTA FE, NEW MEXICO 24 April 1985								
4	EXAMINER HEARING								
5									
6									
7	IN THE MATTER OF:								
8	Application of Amoco Production Com- CASE								
9	pany for NGPA Wellhead Price Ceiling 8471 Category Determination, San Juan 8566 County, New Mexico.								
10	councy, New Mexico.								
11									
12	BEFORE: Michael E. Stogner, Examiner								
13									
14	TRANSCRIPT OF HEARING								
15									
16	APPEARANCES								
17									
18									
19	For the Oil Conservation Maryann Lunderman Division: Attorney at Law								
20	Energy and Minerals Department Energy and Minerals Division								
21	Santa Fe, New Mexico 87501								
22	For the Applicant: Stephen D. Ring								
23	Attorney at Law Amoco Production Company								
24	P. O. Box 800 Denver, Colorado 80201								
25									

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MR. STOGNER: We'll call next Case 8471, which is the application of Amoco Production Company for NGPA Wellhead Price Ceiling Category Determination, San Juan County, New Mexico.

Call for appearances.

MR. RING: Stephen Ring, R-I-N-G, for Amoco Production Company in this case and in the following case.

I am associated with Mr. William Carr of the Santa Fe Law Firm Campbell and Black.

Mr. Examiner, Amoco would request consolidation of this case and the following one, 8566.

The exhibits in the two cases are largely identical and the matter to be shown in each case is the same.

MR. STOGNER: Are there any objections to continuing Case 8471 and 8566?

There being none, I will now call for Case 8566, which is the application of Amoco Production Company for NGPA Wellhead Wellhead Price Ceiling Category Determination, San Juan County, New Mexico.

Mr. Ring, do you --

MR. RING: I appear for Amoco

in this case, as well.

MR. STOGNER: Okay. Are there

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any other appearances in either one of these cases?

These cases will be so consoli-

MR. RING: Thank you.

Amoco will offer one witness in these consolidated cases and I ask that he be sworn now.

(Witness sworn.)

MR. RING: Mr. Examiner, in Case No. 8471 Amoco presents an application requesting a determination that gas produced from Amoco's Wood Gas Com "A" No. 1 is occluded natural gas produced from coal seams for purposes of Section 107 of the Natural Gas Policy Act of 1978.

Case No. 8566, Amoco presents an application requesting a determination that gas produced from its Leeper Gas Com "D" No. 1-R Well is occluded natural gas produced from coal seams for purposes of NGPA Section 107.

1 7 CHARLES J. BOYCE, 2 being called as a witness in each of these cases and being 3 duly sworn upon his oath, testified as follows, to-wit: 4 5 DIRECT EXAMINATION 6 BY MR. RING: 7 0 Mr. Boyce, at this time would you state 8 your full name for the record, indicate by whom you are em-9 ployed and in what capacity? My name is Charles Boyce, B-O-Y-C-E, and 10 I'm employed by Amoco Production Company in Denver 11 Senior Petroleum Engineering Associate. 12 Have you previously testified before this 0 13 Commission or its Examiners in applications of Amoco for de-14 terminations that gas qualifies as occluded natural gas pro-15 duced from coal seams? 16 Α Yes, I have. 17 0 All right. Have you reviewed or supervised the preparation of the exhibits which Amoco offers to-18 day? 19 Α Yes. 20 MR. RING: Mr. Examiner. 21 would ask Mr. Boyce's acceptance as a witness in this mat-22 ter. 23 MR. STOGNER: Mr. Boyce is so 24 qualified.

Thank you, sir.

MR. RING:

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At this time I'm going to give you all our exhibits at once.

In making applications under the Natural Gas Policy Act, Amoco is required to mail in an application and we did that for the Wood Well under letter dated August 30, 1984.

Materials submitted with that letter have been identified in this proceeding as Exhibits One-A through Twelve-A. Many of the materials are necessary to meet procedural requirements and do not contain evidence which is necessary to our discussion this morning and therefore many of those Exhibits One-A through Twelve-A will not be discussed.

Under cover of letter dated March 18, 1985, Amoco submitted its application for the Leeper Gas Com "D" No. 1-R.

The materials submitted with that application are identified as Exhibits One-B through Twelve-B.

Amoco bring additional exhibits today and as you can see from the list numbers, Fifteen-A and Twenty-A are concerned with the Wood Gas Com "A" No. 1 Well.

Exhibit Fifteen-B is concerned with the Leeper Well and Exhibits Thirteen, Fourteen, Sixteen, Seventeen, Eighteen, and Nineteen are identical to the proceedings brought on both of these wells. Therefore those

The Wood Gas Com "A" No. 1 in the lower township, 31 North, Range 10 West, is located in a 320 unit

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consisting of the north half of Section 4.

Q All right. Mr. Boyce, you'll notice that on Exhibit Seven-A, which was submitted with the original application for the Wood Gas Com "A" No. 1 Well, Amoco has shown acreage of only 160 acres attributed to that well.

Was that an inadvertent mistake?

A No, at the time the well was completed the well had been issued for the pool. Prior to that time Fruitland-Pictured Cliffs spacing area was 160. The pool that was formed and spaced on 320 for the coal zone was not in effect at that time.

Q All right. Has Amoco submitted a revised plat which shows the present spacing for that well?

A That's right. On that group of files, on Exhibit Twenty-A there is a revised plat showing the dedication of 320 acres for that well, which is the north half of Section 4.

Q All right. Mr. Boyce, has evidence previously been presented to the Oil Conservation Division that the acreage attributed to these two wells is underlain by a gas-bearing coal?

A That's correct.

Q I wonder if you could discuss that more at length, turning to your Exhibits Eight-A and Eight-B.

A Exhibit Eight-A in both cases is a copy of Order R-7588, which was issued in July of 1984. Based on testimony presented in January, 1984, evidence showed that

1 11 within the area outlined on Exhibit Thirteen the lower 2 Fruitland coal zone did exist and it was determined at that 3 time that within that area this would be designated 4 producing pool. 5 All right. Does Order No. 7588 give a Q 6 clear indication of the horizontal limit of the pool? 7 That's correct. A 8 And do those limits include the 320-acre 0 9 units attributed to the two wells that we're discussing here today? 10 A Yes. 11 All right. What are the vertical limits Q 12 of the Cedar Hill Fruitland Basal Coal Pool as designated by 13 Order R-7588? 14 They were determined and shown on the log 15 of the Schneider Gas Com "B" No. 1, which is in Section 28 16 of 32 North, 10 West, and at the hearing it was determined 17 that between the interval of 2795 and 2878 on the type 18 of that well would be the vertical limits of the pool. All right. Is the Wood Gas Com "A" No. 1 19 Well completed within those vertical limits of the pool we 20 are discussing? 21 Yes, it is. Α 22 Is the Leeper Gas Com "D" No. 1-R com-Q 23 pleted within the vertical limits of the pool we are discus-24 sing? 25 A Yes.

All right. Mr. Boyce, what measures did

Amoco take to assure that the completion locations in each

of these two wells, and let's call those the the coal seam

completion locations, what measures did Amoco take to assure

that those completion locations are not in communication

with any zones other than the coal zone?

A In both cases casing was set through the Basal Coal Zone, properly cemented, and only the coal seams were perforated and in both cases very minimal stimulation was utilized, so in my opinion with accepted oil field practices the coal is isolated for production in both these wells.

Q All right. Does the gas which Amoco is producing from the Cedar Hills Fruitland Basal Coal Pool from each of these two wells have any unique characteristic which differentiates it from gas found in the neighboring formations?

A That's correct. In fact, in addition to the mechanical isolation of the coal zone, which is critical to separating that production from the overlying Fruitland and the underlying Pictured Cliffs, the gas-producing coal was rather unique, and I think a look at Exhibits Sixteen, Seventeen, Eighteen, and Nineteen, which were actually a part of the original presentation for the pool designation, show that the gas produced from the coal zone is unique and the analyses that we've presented with the Woods "A" No. 1 and the Leeper Gas Com "D" No. 1 compare with the gas that

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was shown to be produced from the coal zone and cantly different than the gas that has been produced in the past from the overlying Fruitland formation and the underlying Pictured Cliffs formation.

The main differences are a fairly high level of carbon dioxide in the coal seam gas compared a low CO2 content in the -- in the sand type production. low ethane plus in the coal gas resulting in a fairly BTU content. At the same time relatively higher ethane plus values and BTU's in those other formations.

based on the gas analyses we've sented and the comparison with previous data which supported the coal seam as being unique, the coal is productive of gas in these wells and that is the source of the gas.

> All right. Thank you. Q

In your opinion after your study of and preparation of a number of these exhibits, matter does the gas produced from the Wood Gas Com "A" No. 1 Well qualoccluded natural gas produced from coal seams for ify as purposes of Section 107 of the Natural Gas Policy Act.

> Yes, it does. Α

All right, and in your opinion does gas produced from the Leeper Gas Com "D" No. 1-R qualify as occluded natural gas produced from a coal seam for purposes of Section 107 of the Natural Gas Policy Act?

> Yes, it does also. A

0 All right. Do you have anything further

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1	14
2	to testify?
3	A No. I might point out Exhibit Fourteen
4	just for the record. It it does show the logs of the two
5	wells on a section including the reference well for the
6	pool, the Schneider "B" 1, and does show that the coal seam
	produced in the Leeper and the Wood is within the boundary
7	set in the original order for which the Schneider was the
8	type log.
9	Q All right, thank you.
10	MR. RING: Mr. Examiner, that
11	concludes Amoco's testimony.
12	We would ask at this time that
13	Exhibits Nos. One-A through Twelve-A, One-B through Twelve-
14	B, Number Fifteen-A, Number 20-A and Nos. Thirteen, Four-
15	teen, Sixteen, Seventeen, and Eighteen and Nineteen be
16	admitted into evidence.
	MR. STOGNER: All those exhi-
17	bits that you just mentioned will be admitted into evidence
18	at this time.
19	MR. RING: Thank you.
20	
21	CROSS EXAMINATION
22	BY MR. STOGNER:
23	Q Mr. Boyce, Exhibit Number Thirteen, your
24	plat. A Yes.
	,

Okay, let's refer now to the west half of

25

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I pointed out as being a Pictured Cliffs well?

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Q Uh-huh.

That well in the past year and since this original filing was prepared, has been abandoned and this well was renamed the "D" 1-R, which meant a replacement well.

So that's why it originally was permitted as a Y well, being a lease name, and before it was drilled we abandoned the "D" No. 1 and called this a "D" 1-R, which would be a replacement for that well, since at the time -- time it was drilled we hadn't designated this pool a coal zone.

Q The original lease for "D" Well No. 1, what was its production horizon?

A I would really have to check the records here in the Commission file. It was either the Fruitland or the Pictured Cliffs.

Since this well was designated the 1-R, I would assume it was probably a Fruitland well, but I can't be certain.

Q And you wouldn't know off your head if it was a Fruitland well if it would have been completed through the Basal Coal Seam?

I can be -- I can be really assured that it was not. The Fruitland production in this area has historically been from the upper portion of the Fruitland where the sand zones develop and this lower coal zone, as shown very clearly on Exhibit Number Fourteen, as right at the

base of the Fruitland formation and there really are no sand lenses within perhaps 50 or 100 feet of it up the hole which would be produced, so, no, I'm fairly certain that this well was - that was abandoned never did produce from this coal zone.

Q In the naming of the Leeper "D" 1-R our Aztec District Office has been changing your form reflecting it's the 1-Y. I will be getting in touch with Mr. Chavez and -- and your office about getting the right name on this particular well.

A All right.

Q It's not that big of a deal, but anyway -- okay, let's now refer to the north half of Section 4, which is dedicated to your Wood Gas Com l-A, and you show three well site locations on this, also. Would you please go over those?

A That's correct. In the north half of Section 4 there is an Usselman "D" No. 1, an Usselman "C" No. 1, that are shown as gas wells and I cannot tell you which horizon they produce from.

They are either Pictured Cliffs or Fruit-land wells and in either case, referring again to Exhibit Number Fourteen, neither of those formations in the past have ever been opened in the coal zone, specifically since it was never known to be productive until our pool was formed and quite the contrary, was something that was avoided due to the fact it was coal.

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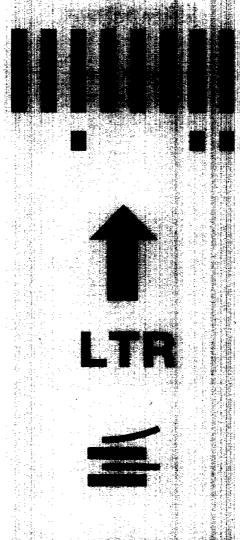
1 18 How about the Usselman No. 1? 2 Q That is a location which to my knowledge 3 has not yet been developed. Since we are on 320-acre spac-4 ing (not understood). 5 MR STOGNER: I have no further 6 questions of Mr. Boyce. 7 Does anybody else have any 8 questions of this witness? 9 If not, he may be excused. Anything further in either 10 one of these cases this morning? 11 MR. RING: We have nothing fur-12 ther. 13 MR. STOGNER: There being no-14 thing further in these two cases, Cases 8477 and 8566 will 15 be taken under advisement. 16 17 (Hearing concluded.) 18 19 20 21 22 23 24 25

CERTIFICATE

I, SALLY W. BOYD, C.S.R., DO HEREBY CERTIFY that the foregoing Transcript of Hearing before the Oil Conservation Division was reported by me; that the said transcript is a full, true, and correct record of the hearing, prepared by me to the best of my ability.

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case os. 847/and 856/ heard by me or 14 fam. 1985.

Oil Conservation Division



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NEW MEXICO OCD: 4-24-85:

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

illoo	D GAS COM A #1 (CASE No	. 8471)	LEEPER GAS COM"D" + 1R (CASE NO.	8566)
EXH.			# EXHIBIT NAME	
1 A 2 A 3 A 4 A 5 A 7 A 8 A 9 A 10 A	FORM C-132 FORM C-132 FORM C-101 FORM C-102 FORM C-105 NOPA LOCATION Plat NIMOLD ORDER R-7588 LOG: Compensated Newton AREA PLAT		1 B 3-18-85 Cover Letter 2 B FORM C-132 3 B FERC FORM 121 4 B FORM C-101 5 B FORM C-102 6 B FORM C-105 17 B NGPA LOCATION Plat 8 B NMOLD ORDER R-7588 9 B LOG: Compensated Density	
18	Sworn Statement Field Map Stratigraphic Cross Section Produced Low Analysis Cahn Desortal Gas Analysis State Bu Gas Analysis Fruitland Cas Analysis Pictural Cliffs Gas Analysis Revised NGPA Location Plat		SWORN STATEMENT FINIS MAP STRATIGNAPIC Cross Soction 15B Produced Gas Analysis Cahn Desorbed Gas Analysis State "BW" Gas Analysis Fruitland Gas Analysis Pictured Cliffs Gar Analysis	



Stephen D. Ring Attorney

Amoco Production Company

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

March 18, 1985

Re: Leeper Gas Com. "D" No. 1R 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.

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

SDR/mat Encls.

cc w/att: El Paso Natural Gas Company (Purchaser)

W. P. Carr

STATE OF NEW MEXICO	P. Q. BOX 2088	0.0750.	form C-13Z Revised 7-15-20
EMERGY LO MINERALS DEPARTMENT			SA. Indicate Type of Leuse
PRICE	APPLICATION FOR WELL CEILING CATEGORY DE		STATE TEE X
		7	.S. Store Ott 6 Gas Lease No.
FOR DIVISION USE ONLY:			
DATE COMPLETE APPLICATION	FILED	•	
DATE DETERMINATION HADE			7. Unit Agreement Frame
WAS APPLICATION CONTESTED	3 YES NO		to and advant trous
MAHE(S) OF INTERVENOR(S).	IF ANY:		8. Farm or Lesse Name
]	Leeper Gas Com "D"
Z. Naza di Optrator			9. Weil No.
Amoco Production Company	·		1R
Amoco Building, 1670 Bro	adway, Denver, CO 80201	•	Mt. Nebo Fruitland
4. Location of Well	1500	South	12. County
WHIT CETTER	LOCATED PEE	TI PRODUCTION THE	
840 PEET PROMITHE Wes		. 32N .ee. 10W	San Cuan
11. Mane and Address of Purchaser(s) El Paso Natural Gas Comp		Paso, TX 79978	
	WELL CATEGORY INF	ORMATION	
Check appropriate bo	x for category sought and inf	ormation submitted.	
 Category(ies) So 	ought (By NGPA Section No.)	107	•
2. All Applications	must contain:		
XX 4. C-101 APPLIC	ATION FOR PERHIT TO DRILL. DE	EPEN OR PLUG BACK	
	OMPLETION OR RECOMPLETION REPO		
	ORILLING SURVEY. IF REQUIRED (
	F MAILING OR DELIVERY	THE THE THE	
	he above, all applications mus	t contain the items possificat	hu tha
applicable rule	of the Division's "Special Rul tegory Determinations" as foll	es for Applications For Well	
A. NEW NATURAL	GAS UNDER SEC. 102(c)(1)(8) (u	sing 2.5 Mile or 1000 Feet 0	eeper Test)
All item	s required by Rule 14(1) and/o	or Rule 14(2)	
8. NEW NATURAL	GAS UNDER SEC. 102(c)(1)(C) (n	ew onshore reservoir)	
All item	s required by Rule 15		•

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HEREIN IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.		Аррго
J. H. Goble		Disap
NAME OF APPLICANT (Type or Print)		The fof th
SIGNATURE OF APPLICANT		appli FERC
Title Regional Natural Gas Mktg. Mgr.		
7 17 6/	İ	

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.

U.S. DEPARTMENT OF ENERGY Federal Energy Regulatory Commission Washington, D.C. 20426

Form Approved OMB No. 1902-0038 (Expires 12/31/84)

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

Section of NGPA	Category Code	Description
(0)	(6)	(c)
102	1	New OCS lease
102	2	New onshore well (2.5 mile test)
102	33	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	ŋ	Stripper well
108	1	Stripper well - seasonally affected
108	2	Stripper well - enhanced recovery
108	3	Stripper well - temporary pressure buildup

E	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 8-8-84

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

1.0 API well number:	Ī	30 - 045 - 26013 -				
(If not assigned, leave blank. 14 digits.)		1 20 070 20013				
2.0 Type of determination being sought:	i	1				
(Use the codes found on the front	İ		107			
of this form.)		Sect	ion of NGPA C	stagory Code		
3.0 Depth of the deepest completion	1		2640			
location: (Only needed if sections 103	i		2640	feet		
or 107 in 2.0 above.)	-i		······································			
4.0 Name, address and code number of	l Am	oco Production	Company		000560	
applicant: (35 letters per line	:	oco Produccion	company	*	000569	
meximum. If code number not	Name	70 Recaduay D	0 Pay 900		Seiler Code	
available, leave blank.)		70 Broadway, P	.U. BUX BUU	 		
	Street					
		iiver				
5.0 Location of this well: [Complete (a)	City		State	Zip Code		
or (b).]	i Mt.	Nebo Fruitlan	nd			
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name.)	County		State			
(b) For OCS wells:	1 3001117			···		
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·	Area N	ame	***************************************	Block Numb	er	
	i					
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	i	Mo.	Day Yr.	OCS Lease Number		
(c) Name and identification number	1					
of this well: (35 letters and digits	Lee	per Gas Com. "	D" No. 1R			
meximum.)						
(d) If code 4 or 5 in 2.0 above, name	ī	•				
of the reservoir: (35 letters	!					
maximum.)						
6.0 (a) Name and code number of the	i					
purchaser: (35 letters and digits	i -ı	005700				
maximum. If code number not	<u> </u>	Paso Natural G	as company		005708	
available, leave blank.)	Name		<u></u>		Buyer Code	
(b) Date of the contract:	i		0 1.0 6 7	0		
	!		0 1 0 6 7			
(a) Estimated total angular and union	<u> </u>		Mo. Day	Yr.		
(c) Estimated total annual production from the well:	i		182	Million Cubi	- 6	
West,	!			willon Cubi	C Feet	
<u> </u>	+			(c) All Other	(4) 7	
	i	(a) Base Price	(b) Tax	Prices [Indicate	(d) Total of (a),	
	!	March '85		(+) or (-).]	(b) and (c)	
7.0 Contract price:	1					
(As of filing date. Complete to 3	S/MMBTU	5 9 4 4	382		6.3 26	
decimal places.)	1					
8.0 Maximum lawful rate:	i.					
IAs of filing date. Complete to 3	S/MMBTU	5 9 4 4	382		6.326	
decimal places.)	ļ					
9.0 Person responsible for this application:	1 U Coble					
	J. H. Goble Regional Natural Gas Marketing Manager					
Agency Use Only	Name	11 4 11	•	Title		
Cate Received by Juris, Agency	i	M. Ltelle				
Data Processor by 5.500	Sighatu	12-95		(202) 020	1211	
Date Received by FERC	1	1-11-32			-4311	
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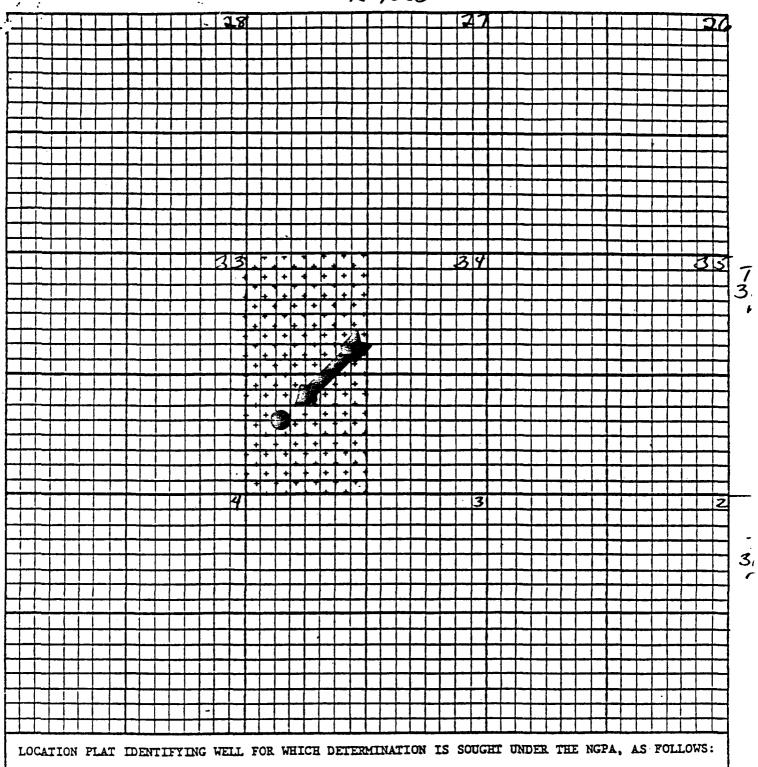
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WELL NAME AND NO.: Leeper Gas Com D# 1R

LOCATION OF WELL: M+ Ocho F-Id. Sanguer, NM

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Area Attributable To Well For Which Determination Is Sought

Amoco Contract No.: 16,176

Rata Schedule No.: 163

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 <u>January 18</u>, 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

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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. I 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 Sasal 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 herein-above designated.

STATE OF NEW MEXICO
OIL CONSERVATION—BIVISION

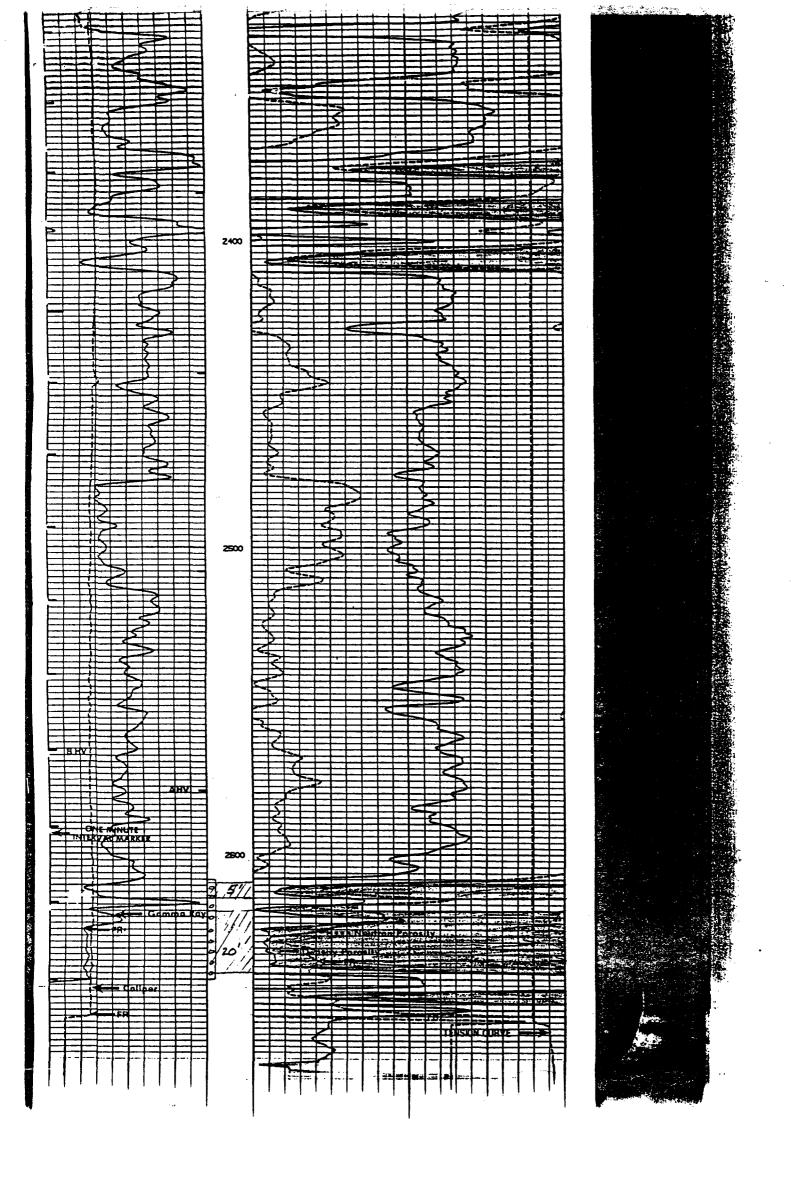
JOE D. RAMEY Director

SEAL



COMPENSATED DENSITY DUAL SPACED NEUTRON: LOG:

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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 Leeper Gas Com. "D" No. 1R 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: W. P. Carr

6700 Forest Lane Dallas, TX 75230

AMOCO PRODUCTION COMPANY

Stephen D. Ring, Attorney

Amoco Building

Denver, Colorado 80202

APPLICANT'S SWORN STATEMENT

STATE OF COLORADO)
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 Leeper Gas Com. "D" No. 1R 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 15th day of Manch, 1985.
AMOCO PRODUCTION COMPANY, Applicant
BY: KT CRISWELL
TITLE: Division Production Manager
ADDRESS: Amoco Production Company
Amoco Building
Denver, CO 80202
SUBSCRIBED, SWORN TO, AND ACKNOWLEDGED before me this day of
March, 1985.
Moco Building
My Commission expires: DENVER, CO 80202

CORE LABORATORIES, INC. ANALYTICAL REPORT

PAGE 1 OF 1

ANALYSIS #:

A40289-6

LOCATION: CASPER, UYO.

ANOCO PRODUCTION CO.

1-2-85

WELL: 1 R FIELD: LEEPER GAS COM. 'I' COUNTY: SAN JUAN

DATE SAMPLED: .1:-30-84 STATE: NEW MEXICO

SAMPLE PRESSURE: 68 PSIA SAMPLE TEMP: DEG. F. REHARKS: #RC1034

SAMPLING POINT: MIN NEBO FRUITLAND

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COMPRESSIBILITY FACTOR: ,997948

CALCULATED SPECIFIC GRAVITY: 0.6201

(AIR = 1.00)

** GPH CALCULATED AT 14,696 FSIA

These analyses, opinions are interpretations are based on observations and material to whom, and for whose exclusive and confidential use, thus report is made the unterpretations to opinious seconds. For contract, inc. and its officers and employment of Core taboratories, for (all errors and amissions excepted); but Core taboratories, inc. and its officers and employment gits property, and its officers and employment of the productivity, proper operations, or prolitableness of any adi, pur such or neutral, property, well or the productivity, proper operations, or prolitableness of any adi, pur such or neutral property, well or the productivity, proper operations, or prolitableness of any adi, pur such or neutral property, well or the productivity, proper operations, or prolitableness of any adi, pur such or relative musural, property and its productivity, proper operations.