State of New Mexico ENERGY AND MINERALS DEPARTMENT 12205. St. Francisco FOR DIVISION LOS ONLY Santa Fe, NM 87505 - 5472	Form C-132 Revised 10/1/86
APPLICATION FOR WELLHEAD PRICE CEILING CATEGORY DETERMINATION         APPROPIATE FILING FEE(S) ENCLOSED? YES NO         DATE COMPLETE APPLICATION FILED	STATE FEE X 5. State Oil & Gas Lease No. 7. Unit Agreement Name 8. Farm or Lease Name Schneider Gas Com C
2. Name of Operator     BP America Production Company     3. Address of Operator     P.O. Box 3092 Houston. TX 77253     4. Location of Well     UNIT LETTER M LOCATED 790 FEET FROM THE South LINE     AND 1190 FEET FROM THE West LINE OF SEC. 28 TWS. 32N RGE. 10W NMPM     11. Name and Address of Purchaser(s)     El Paso Field Services	9. Well No. 1 10. Field and Pool, or Wildcat Basin Dakota 12. County San Juan

Check appropriate box for category sought and information submitted. Enter required information on lines 1 and 2, below.

- 1. Category(ies) sought (By NGPA Section No.)
- 2. Filing Fee(s) Amount Enclosed: \$\_ 25.00
- 3. All applications must contain:

APJ No. 30-045- 25883

- 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

4. In addition to the above, all applications must contain the items required by the applicable rule of the Division's "Special Reules of 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 UNDER SEC. 103

All items required by Rule 16a OR Rule 16B

D. SEC. 107 HIGH COST NATURAL GAS (TIGHT FORMATION, DEEP, COAL SEAM, AND PRODUCTION ENHANCEMENT) UNDER SEC. 103

All items required by Rule 17 (1), Rule 17 (2), Rule 17 (4), or Rule 17 (5)

E. STRIPPER WELL NATURAL GAS UNDER SEC. 108

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.	FOR DIVISION USE ONLY Approved
Mary Corley	Disapproved
NAME OF APPLICANT (TYPE OR PRINT)	The information contained herein includes all of the information required to be filed by the zep) carry index Subpart 8 of Part 274 of the FERC
SIGNATURE OF APPLICANT Title Senior Regulatory Analyst	regulation
Date February 17, 2003	EXAMINER

# A. THE NGPA WELL CATEGORY DETERMINATION IS BEING SOUGHT FOR A WELL PRODUCING:

- A1 \_\_\_\_\_ occluded natural gas from coal seams.
- A2 \_\_\_\_\_ natural gas from Devonian shale.

A3  $\mathbf{X}$  natural gas from a designated tight formation.

# **B. FOR ALL APPLICATIONS FOR DETERMINATION PROVIDE THE FOLLOWING:**

1.	Well Name	and No.*	Schneider	Gas Com #1	
2.	Completed	in (Name of R	leservoir) *	Dakota	
3.	Field *	Basin Dako	ota		
4.	County *	San Juan			
5.	State *	New Mexic	:0		
6.	API Well N	lo. (14 digits r	<u>naximum. If n</u>	not assigned, leave	blank.) 30-045-25883
9.	Measured I TOP 739	Depth of the Co	ompleted Inter	rval (in feet) BASE	7560'
. Al <u>ESP</u> 1.	ONSIBLE F Applicant's	S MAILING OR APPLIC. Name * B	ADDRESS A ATION: P America Pro	ND THE IDENT	ITY OF THE PERSON WHO IS
2.	Street *	5	01 Westlake P	ark BLVD	
3.	City *	ŀ	louston		
4.	State*	т	exas		5. Zip Code 77079
6.	Name of Pe	rson Responsi	ible * Ma	ry Corley	
7.	Title of Suc	h Person *	Se	nior Regulatory An	alyst
8.	Signature	Mary /	lig		and Phone No. ( 281 ) 366 - 4491
*	0		()		

\* SIGNIFIES THAT EINE ENTRY MAY CONTAIN UP TO 35 LETTERS AND/OR NUMBERS.

# APPLICATION FOR WELL CATEGORY DETERMINATION PUSUANT TO SECTION 270 OF THE FEDERAL ENERGY REGULATORY COMMISSION 'S REGULATIONS IMPLEMENTING THE NATURAL GAS POLICY ACT OF 1978 (NGPA)

# AFFIDAVIT TIGHT FORMATION GAS

# STATE OF TEXAS COUNTY OF HARRIS

BEFORE ME, the undersigned authority, duly commissioned and qualified within and for the State and County aforesaid, personally came and appeared Mary Corley, who being by me first duly sworn, deposed and said:

That she is the Senior Regulatory Analyst for BP America Production Company, the applicant for the well hereinafter described, and that capacity, she is requesting the appropriate Authorized Officer to make a determine that this well is producing from a tight formation pursuant to the rules and regulations of the Bureau of Land Management and the Federal Energy Regulatory Commission (FERC), as such rules relate to NGPA.

That production from the Schneider Gas Com C well # 1, API No. 30-045-25883 is natural gas produced from a FERC designated tight formation, assigned State No. NM – 09 through:

- X a well the surface drilling of which began after December 31, 1979, but before January 1, 1993;
- a recompletion commenced after January 1, 1993, the surface drilling of which began after December 31, 1979, but before January 1, 1993; or
- \_\_\_\_\_ a recompletion commenced after December 31, 1979 but before January 1, 1993, where such gas could not have been produced from any completion location in existence in the well bore before January 1, 1980; and

Said applicant has no knowledge of any information not described in the application that is inconsistent with her conclusion.

Mary Corley

Senior Regulatory Adalyst Sybscribed in my presence and duly sworn to before me, this 17 day of February, 2003.

Tatuia Boog DiScena

**Notary Public** 

**BLM Affidavit** 



My Commission Expires:



February 17, 2003

State of New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Application For Well Category Determination NGPA Section 107 - Dakota Schneider Gas Com C Well No. 1 San Juan County, New Mexico San Juan Performance Unit

Mary Corley WL1-19.171 281-366-4491 (direct) 281-366-0700 (FAX) corleyml@bp.com

P. O. Box 3092 Houston, Texas 77253-3092 501 Westlake Park Boulevard Houston, Texas 77079

0

API No. 30-045-25883

BP America Production Company is enclosing, for review and approval by the Oil Conservation Division, the original and one copy of an Application for Well Category Determination for the referenced well. Please hold the information in the filing confidential to the maximum extent allowed by law.

A copy of this letter and the FERC Form 121 has been mailed to each working interest owner entitled to receive Notice of this Application.

Please indicate receipt of this filing by date stamping the attached copy of this letter and returning the copy for our records.

Very truly yours,

Mary Corley (/ Sr. Regulatory Analyst

Enclosures

Cc: Working Interest Owners

- E	•				F	ARMINGT	ON DISTRICT	7			1		,
			7			JUL 2	3 1984			/			(
DISTRIBUT	ON	I	1			DS					Form	1 C-105	
SANTA FE			-			DAS		1		/	Con lease	ILEG IIIIA	· · · · · ·
TILE			wei	NEW	MEXIC	DIDIL C	ONSERVAT	QN I	COMMISSIO	ИС	Su. India		.eane
J.S.G.S.				L COMPL	-F ITON	OR RE	COMPLET	M	REPORT	AND LOG	Sigle		Fee X
AND OFFICE			1			SD:	10				S. State	OII & Gas Le	369 No.
PERATOR						BRS	AS	7-			huu	mm	mmm
TYPE OF WELL								1			$\Delta MM$		
a tire of heee		01					HE	4			7. Unit /	Miscement Nau	he
- TYPE OF COMPLETION			WEL			De brief	- f	PT PT	n_	- L'			
WELL X WORK DEEPEN			PLU		OIFF.	PEC.	2			Schne	ider Gae		
Name of Operator		-									9. Well h	10.	7
Amoco Produ	or	Co.					101	16	5 1984		. 1		
501 Airport	Drive	. Fari	ninet	on. N M	1 8740	01		-	N DIN	1.	10. Field	and Pool, or	Wildcat
Location of Well							OILL		7 4		Basi	n Dakota	
			_					013			11111		
IT LETTER M	LO	CATED	790		-	South	LINE AN	D	1190	FECT FROM	()))))	////////	
West Line	DF SEC.	28	TWP.	32N		K M P	. [[]]]		111X11		12. Count San Ji	uan	<u>illilli</u>
. Date Spudded 4-2-84	16. D	ate T.D. 8-84	Reache	d 17. Date	Compl. (	Ready to	Prod.) 18.	Elev	vations (DF)	RKB, RT, C	R. etc. / 1	9. Elev. Cash	inghead
Total Depth		21. PI	ug Bacl	T.D.	22	. If Multip	ple Compl., H	0/1	KB 23. Interv	als Botar	Tools	5058" GR	
7630		75	28'			Many S	ingle		Drille	d By 0-	TD		0015
Producing Interva	i(s), of th	is comple	tion -	Top, Botton	n, Name							25. Was Dire	ctional Survey
7305' - 7560	o'											Made Yes	,
Type Electric and	Other Lo	ys Fin							-		27.	Was Well Cor	ed
CEL-GR-FDC-S	SNP-GR	Calip	er									No	
				CAS	SING REC	ORD (Re	port all string	s sei	t in well)				
CASING SIZE	WEI	GHT LB.	/FT.	DEPTH	SET	но	LE SIZE		CEME	NTING RECO	RD	AMOU	NT PULLED
1-3/4"	421	₩, H-4	0	345'		14-:	3/4"	420	0 cu. fi	. Class	B w/12	2% Cac12	
8-5/8"	24	<u>&amp; 28</u> #	, 5-	30 32	71'	10-:	3/4"	847	7 cu. f1	- Class	B 50:5	Dopoz &	tailed
								in	w/118 d	u. ft. (	Class H	Neat	
-1/2"	11.6	5# <u>.</u> N−	80	7571'		7-	7/8"		4131	1. It			
		L	INER F	ECORD					30.			CORD	heally
SIZE	тс	0P	80	ттом	SACKS C	EMENT	SCREEN		SIZE	DEE	TH SET		back)
									2-3/8"	7522	INSEI	PAC	KERSET
									-				
Perforation Record	(Interval,	size and 111	numbe	1 720/	1 74	2/1	32.	ACI	D, SHOT, F	RACTURE, C	EMENT S	QUEEZE, ET	ç.
30' 7446'-	4JSPL,	77.65	, 741	2 -1394 01 - 740	+ , 74. 191 774	54 - oct	DEPTH	INT	ERVAL	AMOU	NT AND K	IND MATERI	AL USED
60'-7524'	7440 , 2ienf	28"	-740	, 745	72 -740	oo ,	7394' -	756	50'	100, 700	)∦ + su	rface li	ne volume
tal of 15/	LJSPL,	• 50					1			of cross	linked	gel & 2	0-40
Lai OL 154	nores									sand			
····						PROD	UCTION						
First Production		Produc	tion Me	thod (Flow	ing, gas l	ift. pump	ing - Size un	d typ	e pump)		Well Stat	us (Prod. or S	hut-in]
14-84		Flow	ving										
of Test	Hows T	ested	Che	ske Size	Prod'n.	For	ОП — БЫ.		Gas - MCF	Water	- ны.	Gas - Oll F	
15-84	3 H	rs.		.75	Lest Pe				189				
Tubing Press.	Casing	Fressure	Cal	pulated 24-	OIL - BI	ы.	Gas - h	ICF	We	ter - fibi		L Cravity - A	PL (Curr 1
18 psig	556	psig	Hou	# Hate			151	0				i danny – n	1 (0.07.)
isposition of Gas	Sold. use	d for fuel	, vente	d, etc.)						Test	Vitnessed	Ву	
be sold										J.	Barnet	t =	
ALLACINITALIS													
hereby cent	d d	1 4 33	- III IIA	buth sides	of this fo	rm is true	e and complet	e ta i	the best of	my knowledge	und belie	1	
	Orioi	nal Ci	ined	Die									
SNED		0	UBIT	бу	TIT	LE Adm	. Superv	iso	r	(	DATE 7-	2-84	
	D		KAW										

— Submit 5 Copies ' Appropriate District Office <u>DISTRICT I</u> P.O. Box 1980, Hobbs, NM 88240	State of Ne Energy, Minerals and Nati	ew Mexico ural Resources Department TION DIVISION	Form C-104 Revised 1-1-89 See Instructions at Bottom of Page					
DISTRICT II P.O. Drawer DD, Artesia, NM 88210	P.O. Bo Santa Fe, New Ma	OIL CO/ 01L CO/ 01L CO/	ISERVE ON DIVISION Received					
DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 -	REQUEST FOR ALLOWAE		G 22 AM 10 28					
I. Operator AMOCO PRODUCTION COMPA		LAND NATUHAL GAS Well API No. 300452588300						
Address								
P.O. BOX 800, DENVER,	COLORADO 80201	Other (Please explain)						
New Well	Change in Transporter of:							
Recompletion	Oil Dry Gas							
Change in Operator [_]								
and address of previous operator								
II. DESCRIPTION OF WELL Lease Name SCHNEIDER GAS COM C	AND LEASE Well No. Pool Name, Includi I BASIN DAK(	ing Formation Kind ( DTA (PROFACESE GAS) State,	of Lease Lease No. Federal of Fee					
Location M Unit Letter	790 Feet From The	FSL 1190 Fe	et From TheLine					
28	32N 10W	SAN	JUAN					
Section Townshi	pRange	, <u>NMPM</u> ,	County					
III. DESIGNATION OF TRAN	SPORTER OF OIL AND NATU	RAL GAS	anna a fatila farm ia ta ha anni)					
MEDINIAN OIT INC	or Condensate	3535 EAST 30TH STREET.	FARMINGTON, CO 87401					
Name of Authorized Transporter of Casin	ghead Gas or Dry Gas 💢	Address (Give address to which approved	copy of this form is to be sent)					
EL PASO NATURAL GAS CO	MPANY	P.O. BOX 1492, EL PASC	), TX 79978					
give location of tanks.	om sec. twp. rge.	Is gas actually connected?						
If this production is commingled with that IV. COMPLETION DATA	from any other lease or pool, give comming	ling order number:						
Designate Type of Conviletion	Oil Well Gas Well	New Well Workover Deepen	Plug Back Same Res'v Diff Res'v					
Date Soudded	Date Compl. Ready to Prod.	Total Depth	P.B.T.D.					
Elevations (DF, RKB, RT, GR, etc.)	Name of Producing Formation	Top OluGas Pay	Tubing Depth					
Perforations			Depth Casing Shoe					
	TUDING CASING AND	CEMENTING RECORD						
HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT					
V. TEST DATA AND REQUE	ST FOR ALLOWABLE							
OIL WELL (Test must be after	recovery of total volume of load oil and mus	t be equal to or exceed top allowable for the Producing Method (Flow, pump, gas lift,	is depth or be for juil 24 nours.) etc.)					
Date First New OIL Kull TO Talk	Date of Test							
Length of Test	Tubing Pressure	Casing Pressure	CESEVE N					
Actual Prod. During Test	Oil - Bbls.	Water - Bbis.	Gas- MCF					
There is a second second second		J	UL 2 1990					
GAS WELL			CON DIV					
Actual Prod. Test - MCF/D	Length of Test	Bbls. Condensate/MMCF	DIST. 3					
Testing Method (pilot, back pr.)	Tubing Pressure (Shut-in)	Casing Pressure (Shut-in)	Choke Size					
I hereby certify that the rules and regu	ulations of the Oil Conservation	OIL CONSERV	ATION DIVISION					
Division have been complied with and	d that the information given above knowledge and belief.	JUL	x 1930					
IS LUC AIR COMPLEXE TO BE DESI OF MY	maning and	Date Approved	21					
D. H. Uhley		By Bill.	Chang					
Signature Doug W. Whaley, Sta	aff Admin. Supervisor	SUPERVISO	DR DISTRICT #3					
June 25. 1990	303-830-4280							
Date	Telephone No.							

INSTRUCTIONS: This form is to be filed in compliance with Rule 1104

1) Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.

2) All sections of this form must be filled out for allowable on new and recompleted wells.

3) Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.

4) Separate Form C-104 must be filed for each pool in multiply completed wells.

STATE OF NEW MEXICO	JUL SEP 18 1987 11(1)
ENERGY MO MINERALS DEPARTMENT	OIL CO. HOLE . SIO. V Form C. 104
00. pd (00+20.010(1000	Perised 10-01-78 Format 08-01-43
	A TION DIVISION Page 1
SANTA FE. NEV	V MEXICO 87501
LAND OFFICE	
TRANSPORTER GAS RECUEST FOI	RALLOWABLE
OPERATOR A	ND
AUTHORIZATION TO TRANSI	PORT OIL AND NATURAL GAS
Operator	
Amoco Production Company	
501 Airport Drive Farmington, NM 87401	
Reason(s) for filing (Check.proper box)	Other (Please explain)
New Well Change in Transporter of:	
Recompletion Oll Oll Oll Oll Oll Oll Oll Oll Oll Ol	y Gas
If change of ownership give name	
II. DESCRIPTION OF WELL AND LEASE	ormation Kind of Lease Lease No.
Scheider Gas Com C / Basin Dakota	State, Federal or Fee
Location	
Units Leater M : 790 Feet From The South Lin	e and Fees From The
Tavaship 32N Barge /	OW , NMPM, San Juan County
II. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL	GAS
Permian Corp. Permian (Eff. 9 / 1 /87)	P. O. Box 1702 Farmington, NM 87499
Name of Authorized Transporter of Casinghead Gas or Dry Gas Z	Address (Give address to which approved copy of this form is to be sent)
El Paso Natural Gas Company	P. U. Box 990 Farmington, Nr 07401
Il well produces oil or liquide, Unit Sec. Iwp. Hes.	No
If this mediaction is commingled with that from any other lesse or pool,	give commingling order number:
NOTE: Complete Parts IV and V on reverse side if necessary.	
	OIL CONSERVATION DIVISION
VI. CERTIFICATE OF COMPLIANCE	0. JAN 25 1985
I hereby cataly that the rules and regulations of the Oil Conservation Division have	APPROVED
my knownedge and belief.	BY Ranles Sholson
	DEPUTY OIL & GAS INSPECTOR, DIST. #3
	This fam to to be filed to compliance with all \$ 1104
(OD) naw	If this is a request for allowable for a newly drilled or deepened
(Signature)	well, this form must be accompanied by a tabulation of the deviation
Admin. Supervisor	All sections of this form must be fulled out completely for slion-
1-2-85 Dr EP -	able on new and recompleted wells.
(Date) US CIM	well name ar number, or transporter, or other such changes of condition.
JAN I KEN	Senarare Forms C-104 must be filed for each pool in multiply
~ "ND>	Mampiered wells.
$O_{11} = \sqrt[3]{9} = 11$	Pampiaced wells.
OIL COA 1985	Pamolated wells.
OIL CON DIST	Pamaiaced wella.

ł

and a second second second

					ż	A 3			/		0	L L
	VED										Form C	-105
DISTRIBUTION	Constant of the second										Revise	9 <b>d 11-1-16</b>
NTA FE			NEW	NEXICO.		NSERVATIO		OMMISSION	J	5	a. Indicat	e Type of Leane
LE		WELL	COMPL	FTION C	OR REC	OMPLETI	ON F	REPORT	AND L (	lac	State	Fee X
s.g.s.			. COM E							5	, State OI	I & Gas Lease No.
ND OFFICE												
PERATOR						DE	G	EIVI	E M			
TYPE OF WELL						IN			-	-	. Unit Agi	reement Name
	011		GAS	$\boxtimes$		JI	1 1	6 1984	E			
TYPE OF COMPLE	TION		WELL	. 🖂		OTHER	- 1	0 1004		- 8	. Furm or	Lease Name
NEW X WC			PLUG		IFF.	OIL.C	$\mathbf{O}$	N DI		s	chneic	der Gas Com "C"
lame of Operator							DIC	TO	¥.e	9	, Well No.	
maco Produc	tion Co.						213	1. 3			1	
ddress of Operator			• • • • • • • • • • • • • • • • • • •				1.1			1	0. Field a	nd Pool, or Wildcat
01 Airport	Drive, Farm	ingt	on, N M	8740	1 .			• •			Basin	Dakota
ocation of Well										-2	1111	inninnin in the second s
								•			/////	111111111111111111
M		790		BOM THE	South	1.14.6 4.41	1	1190		💫	/////	
	COCATED		/ EC/ /	NOM THE _			$\overline{T}$	111/11	1111	TT)	2. County	<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>
West	28	WB	32N	10W			111	////////	11111	🛛 s	an Jua	an ()))))))//
Date Soudded	16. Date T.D. F	Reached	d 17. Date	Compl. (h	Ready to 1	Prod.) 18.	Elev	ations (DF.	RKB. RT	. GR.	etc. / 19.	Elev. Cashinghead
-2-84	5-8-84		5-3	1-84		60	071	KB			60	058" GR
Total Depth	21. Plu	g Back	T.D.	22.	If Multip	le Compl., Ho	w	23. Intervo	als , Ro	tary T	ools	Cable Tools
630	75	28!			Many Si	ngle		Drilled		0-TD	)	
Producing Interval(	s), of this comple	tion -	Top, Bottor	n, Name				· · · · · · · · ·				25. Was Directional Survey
70-1												Made
305 - 7560												ies .
Type Electric and (	ther Logs Run.										27. Y	Was Well Cored
EL-GR-FDC-SI	NP-GR Calip	er										No
			CA			art all stains		in well)				
	L w FL FL FL FL FL	/==	0597			Con on sing	5 361	in weny			<b>D</b> :	
CASING SIZE	WEIGHT LB.	/ F [ +	2451	ISEI	14-2	LE SIZE	1.20	CEME ) ou ft	Cla	COR	UW/122	Z Cacl2
$\frac{1-3/4}{2-5/9!!}$	42#, 11-4		345	711	10-2	7.**	97.7	$\frac{1}{7}$ out ft			50.50	boz & tailed
8-5/8	24 & 2011	, )-(	<u> 50 52</u>	/1	10-5	<i>)</i> / 4	104/	$\frac{7}{3}$ $\frac{118}{3}$ $\frac{118}{3}$	Ft Ft	- <u></u>	ass R	Neat
						. /	111	w/ 110 0				
-1/2"	11.6#. N-	80	7571		7-7	77.8"	4	3 Cu.	ft	11 11 11 11 11 11 11 11 11 11 11 11 11		2 . Commission
	L	INER I	RECORD					30.		TUE	SING REC	ORD Detek)
SIZE	TOP	B	MOTTO	SACKSC	EMENT	SCREEN	_	SIZE	SIZE DE		HSET	PACKER SET
				ļ			_	2-3/8"	<u>/8" 752</u>			· · ·
Perforation Repord	Interval, size and	I numbe	:r)	11 7/	2/1	32.	ACI	D, SHOT, F	RACTUR	E, CE	MENT SO	WEEZE, ETC.
	HJSPI, HI	, 74	12 - 739	4, 74.	34 - oct	DEPTH	INT	ERVAL	A1	OUNT	TANDKI	ND MATERIAL USED
30', 7446'-	(440', 7465	-/4	50', 74	92 - 74	80',	7394' -	-756	50'	100,	7001	+ sui	rface line volume
60'-7524', 2	jspi, .38"								of cr	ossl	inked	gel & 20-40
tal of 154 H	noles								sand			
<u> </u>												
					PROD	UCTION						
First Production	Produ	ction M	lethod (Floi	cing, gas i	lift, pump	oing - Size ar	id typ	ne pump)		1	Well Statu	is (Prod. or Shut-in)
14-84	Flo	wing										
of Test	Hours Tested	CH	ioke Size	Prod'n.	For	Oll - Bbl.		Gas - MCI	F V	ater -	- Вы.	Gas – Oll Ratio
15-84	3 Hrs.		.75	- Cat Pa	>			189				
Tubing Press.	Casing Pressure	C.	Iculated 24	- OII - B	зы.	Gas - I	MCF	We	iter - Bb	1.	011	Gravity - API (Corr.)
18 psig	556 psig	HC	our nine			151	0					
Isposition of Gas (	Sold, used for fue	l, vent	ed, etc.)	•					T	est W	Itnessed S	Ву
be sold										J. E	Barnet	t
ist of Attachments												
hereby cert		The second second	n both side	s of this fe	orm is tru	e and comple	te to	the best of	my know	edge	and belief	ſ.
1	1745			, <b>p</b>				. 1				
]:	SDON	an	ر		ـ الـ ۸	Curar	10-	or '			7_1	2-84
IGNED				TIT		. Superv	120			D	ATE	

#### INSTRUCTIONS

This form, is to be filted with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled or this form is to be used with the appropriate district others of the commission not fuer than so days differ the completion of any newly-antifed of despended well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

		Southeastern	New Mexico			Northw	estem No	ew Mexico	
					<b>a</b> . 41	1171 (Fe		Dana ((D))	
T. Anhy_		T.	Canyon	T. ·	Ojo Alamo	1204	<u>-/</u> 1. 4 (王S甲)	Penn "C"	
T. Salt_		<u>I</u> .	Strawn	, ł. T	Distant Ch	2878	$(EST)_T$	Penn "D"	
B. Salt_		l.		I.	Cliff House	4694	T	Leadville	
T. Yates.		I.	Miss	I. T	Man fai	4772	. T	Madison	
T. 7 Rive	rs	I.	Devonian	i.	Deint Luch	5127	i. T	Flbert	
T. Queen		T.	Silurian	I.	Point Look	5500	1. T	McCracken	
T. Graybu	irg	T.	Montoya	I.	Alancos	5755	1. T		
T. San Ar	ndres	T.	Simpson	I.	Ganup	7249	I. T	Ignacio Qizie	
T. Glorie	ta	T.	McKee	[sast	e Greennorn Debete	7324	I. T	Granite	_
T. Paddo	ck	I.	Ellenburger	l.	Dakota		1. T		
T. Blineb	ry	T	Gr. Wash	I.	Morrison		1. T	· · · · · · · · · · · · · · · · · · ·	
T. Tubb_		T.	Granite	T.	Louito		1. T		
T. Drinka	rd	T.	Delaware Sand	T.	Entrada		I. T		
T. Abo		T.	Bone Springs	T.	wingate		I. T		
T. Wolfca	mp	T.		T.	Chinie		1. T	,	
T. Penn.		T.		T.	Permian		I. T		-
T Cisco (	Bough C)	T.		T.	Penn. "A"		1.		-
			OIL OR	GAS SA	NDS OR Z	ONES			
No. 1, from			to	No.	4, from				-
N- 0 (				No	5 (mm			10	
No. 2, 110m.					J, 110111			***************************************	
			to	No.	6, from		*************	to	
No. 3, from Include dat	a on rate of w	ater inflow as	IMPOR ad elevation to which wate	RTANT W	ATER SAN ole.	DS			
No. 3, from Include dat No. 1, from	a on rate of w	ater inflow as	IMPOF ad elevation to which wate	RTANT W	ATER SAN	DS			•••••
No. 3, from Include dat No. 1, from No. 2, from	a on rate of w	ater inflow as	IMPOR ad elevation to which wate to	RTANT W	ATER SAN	D S fcet.			•••••
No. 3, from Include dat No. 1, from No. 2, from No. 3, from	a on rate of w	ater inflow as	IMPOR ad elevation to which wate to to	RTANT W	ATER SAN	D S fcet. fcet. fcet.			••••
No. 3, from Include dat No. 1, from No. 2, from No. 3, from	a on rate of w	ater inflow as	IMPOR and elevation to which water to	RTANT W/	ATER SAN	DS feet. feet. feet.			••••
No. 3, from Include dat No. 1, from No. 2, from No. 3, from No. 4, from	a on rate of w	ater inflow as	IMPOR ad elevation to which water to	RTANT W	ATER SAN	DS fcet. fcet. fcet. s if necessor			
No. 3, from Include dat No. 1, from No. 2, from No. 3, from No. 4, from	a on rate of w	ater inflow as	IMPOR ad elevation to which water to	RTANT W/ r rose in he Attach addi	ATER SAN ole. tional sheet	DS feet. feet. feet. s if necessor			
No. 3, from Include dat No. 1, from No. 2, from No. 3, from No. 4, from	a on rate of wards a on rate of wards a on rate of wards a second state of the second	ater inflow as	IMPOR ad elevation to which water to	RTANT W r rose in he Attach addi	ATER SAN olc. tional sheet	DS fcet. fcet. fcet. s if necessor Thickness in Feet		Formation	••••
No. 3, from Include dat No. 1, from No. 2, from No. 3, from No. 4, from	a on rate of wards a on rate of wards a on rate of wards a construct of the construct of th	ater inflow as	IMPOR ad elevation to which water to	RTANT W/	ATER SAN olc. tional sheet	DS feet. feet. feet. s if necessal Thickness in Feet	 	Formation	
No. 3, from Include dat No. 1, from No. 2, from No. 3, from No. 4, from	a on rate of wards a on rate of wards a on rate of wards a construct of the second sec	ater inflow as	IMPOR ad elevation to which water to	RTANT W/	ATER SAN olc. tional sheet	DS fcet. fcet. s if necessar Thickness in Feet		Formation	
No. 3, from Include dat No. 1, from No. 2, from No. 3, from No. 4, from	a on rate of wards a on rate of wards a on rate of wards a construct of the second sec	ater inflow as	IMPOR ad elevation to which water to	RTANT W/	ATER SAN ole. tional sheet	DS fcet. fcet. s if necessor In Feet	 	Formation	• • • • • •
No. 3, from Include dat No. 1, from No. 2, from No. 3, from No. 4, from	a on rate of wards a on rate of wards a on rate of wards a construct of the second sec	ater inflow as	IMPOR ad elevation to which water to	RTANT W	ATER SAN ole. tional sheet	DS fcet. fcet. s if necessar Thickness in Feet		Formation	
No. 3, from Include dat No. 1, from No. 2, from No. 3, from No. 4, from From	a on rate of wards	ater inflow as	IMPOR ad elevation to which water to	RTANT W/	ATER SAN olc. tional sheet	DS feet. feet. feet. s if necessar in Feet		Formation	
No. 3, from Include dat No. 1, from No. 2, from No. 3, from No. 4, from From	a on rate of wards a on rate of wards a on rate of wards a construct of the second sec	ater inflow as	IMPOR ad elevation to which water to	RTANT W/	ATER SAN olc. tional sheet	DS feet. feet. feet. s if necessal Thickness in Feet	 	Formation	
No. 3, from Include dat No. 1, from No. 2, from No. 3, from No. 4, from From	a on rate of war	ater inflow as	IMPOR ad elevation to which water to	RTANT W/	ATER SAN olc. tional sheet	DS feet. feet. feet. s if necessar Thickness in Feet	 	Formation	
No. 3, from Include dat No. 1, from No. 2, from No. 3, from No. 4, from From	a on rate of war	ater inflow as	IMPOR and elevation to which water to	RTANT W/	ATER SAN ole. tional sheet	DS fcet. fcet. s if necessar In Feet		Formation	
No. 3, from Include dat No. 1, from No. 2, from No. 3, from No. 4, from From From	a on rate of war	ater inflow as	IMPOR and elevation to which water to	RTANT W/	ATER SAN ole. tional sheet	DS fcet. fcet. s if necessar In Feet		Formation	
No. 3, from Include dat No. 1, from No. 2, from No. 3, from No. 4, from From From	a on rate of war	ater inflow as	IMPOR ad elevation to which water to	RTANT W/	ATER SAN ole. tional sheet	DS fcet. fcet. s if necessar Thickness in Feet		Formation	
No. 3, from Include dat No. 1, from No. 2, from No. 3, from No. 4, from From From	a on rate of war	ater inflow as	IMPOR ad elevation to which water to	RTANT W/	ATER SAN ole. tional sheet	DS fcet. fcet. s if necessar in Feet	 	Formation	
No. 3, from Include dat No. 1, from No. 2, from No. 3, from No. 4, from From From	a on rate of war	ater inflow as	IMPOR ad elevation to which water to to FORMATION RECORD (A Formation	RTANT W/	ATER SAN ole. tional sheet	DS fcet. fcet. fcet. s if necessar in Feet		Formation	
No. 3, from Include dat No. 1, from No. 2, from No. 3, from No. 4, from From From	a on rate of war	ater inflow as	IMPOR ad elevation to which water to	RTANT W/	ATER SAN olc. tional sheet	DS fcet. fcet. s if necessar Thickness in Feet		Formation	
No. 3, from Include dat No. 1, from No. 2, from No. 3, from No. 4, from From From	a on rate of war	ater inflow as	IMPOR and elevation to which water to	RTANT W/	ATER SAN olc. tional sheet	DS fcet. fcet. s if necessor Thickness in Feet	 	Formation	
No. 3, from Include dat No. 1, from No. 2, from No. 3, from No. 4, from From From	a on rate of war	ater inflow as	IMPOR and elevation to which water to	RTANT W/	ATER SAN ole. tional sheet	DS fcet. fcet. s if necessar In Feet		Formation	

Farm '23-119 (Rev. 4-73)	
DECENTRATE JUN - 5 1986 JUN - 5 1986 DIL CONSERVATION DIVISION	AL GAS COMPANY ICE BOX 990 N, NEW MEXICO
NOTICE OF GAS CONNECTION	DATE MAY 20, 1986
THIS IS TO NOTIFY THE OIL CONSERVATION	N COMMISSION THAT CONNECTION FOR PURCHASE OF
GAS FROM <u>AMOCO PRODUCTION</u> Operator	SCHNEIDER GAS COM C #1 Well Name
<u>95-758-01</u> 40680-01 Meter Code Site Code	M 28-32-10 Well Unit S-T-R
BASIN DAKOTA	EL PASO NATURAL GAS CO.
Pool	Name of Purchaser
WAS MADE ON <u>APRIL 24, 1986</u> , Date	FIRST DELIVERY MAY 8, 1986 Date
AOF	
СНОКЕ 1510	
	EL PASO NATURAL GAS CO. Purchaser Representative
	Representative
	Title
xc: OPERATOR OIL CONSERVATION COMMISSION - (2) PRODUCTION CONTROL - El Paso LEASE DEVELOPMENT - El Paso CONTRACT ADMINISTRATION - El Paso	RECEIVENT MAY28100
FILE	() · · · · · · · · · · · · · · · · · · ·

Pet

DIST. 3 DIV.

NE	STATE C	OF NEW	MEXICO	D TMENT	s	ANTA	P.	о. вох , NEW	2088 MEXIC	о в7	501				OT 2 FC Re	WWC orm C- vised	122 10-1-78
	*		MULT	POINT	ND	ONE	POIN	T BAC	CK PRE	SSUR	E TE	ST FC	DR 6	S RE	<u>eei</u>	Ŵ	Em
YP	Test Date X Initial Annual X Special 6-15-84							UN	<u>At</u>	<del>1601</del>	1 <u>984</u>	ש					
Company Amoco Production Company Not Dedicated																	
Basin Dakota DIST. 3																	
TE	pletion Date 5-31-	84	Т	otal Depth 7630	DepthPlug Back TDElevationFarm or Lease Name3075646058 GRSchenider Gas Com					Com "C"							
1	. 500	wi. 11/6		4.000	Set	A1 7570	r F	Perloratio "rom	7305	То	73	560	Mar Mar .	Well No	. 1		
	. 375	W1. 4.	7	1.995	Sel	AI 7522	P F	rom 0	pen	To	enc	led		Unit M M	<b>Sec.</b> 28	Twp. 32	Rge. 10
	e Well - Sing	Single	enhead -	- G.C. or G.(	D. Mu	ltiple			Pecker ! None	Set At		na na secondaria. Na secondaria	6.	County San	Juan		
-	ucing Thru		Reservo	ir Temp. *F		Mean An	nual T	emp. *F	Baro, Pr	ess,	Pa			Stote New	Mexico		
-	L	н		Gq	-+	* co 2		% N 2	L	% H <sub>2</sub> S		Provet	I	Meter	Run	Taps	
-			FL	OW DATA				1	TU	BING	DATA		ĊA	SING	DATA	<u></u>	Duration
	Prover Line Size	x	Size	Press. p.s.l.g.		Diff.		Temp. •F	Pres p.s.1	sa. I.g.	· Ten •F	np.	Pres p.s.l	s, .q.	Temp. • F		of Flow
	9 Days 2.375	.750	)						281 118	5 3			2815	<u>)                                     </u>			3 hrs.
					-												
-					1		_										
						RATE	OF	FLOW	CALCU	LATIC	DNS						
	Coellie (24 Ho	cient	-	√ <sup>h</sup> w <sup>p</sup> m	•	Présa P"	ure	Flov	v Temp. actor Ft.		Gravit Factor Fa	Y	S Con Fact	uper npress. or, Fpv		Acte of	Flow
	12.365					130	)	1.0	000	-	.925	8	1.0	15	C	510	)
ļ					-+												
İ	Ŗ	Temp.	*R	Tr		z	Gos L A.P.I.	iquid Hy Gravity	drocarbon of Liquid	Ratio . Hydroc	arbons						_ Mc1/bbl. Deg.
							Specif Specif	lic Gravit	y Separat y Flowin	or Gas_ g Fluid		хx	xxx		XX	XXX	<u> </u>
							Critic	al Pressu						_ P.S.I.	A		
	7877	1	79919	79									-		٦.		
Ī	P <sub>1</sub> <sup>2</sup>	Pe*	8 3	P.2 22624	₽ <sup>2</sup> - 766	- P. <sup>2</sup> 9305	(I) _	$\frac{P_c^2}{R_c^2 - R_w^2}$	· · ·	1.0	421	- (	(2)F	$P_c^2$	=	_1.0	)314
								г	n <sup>2</sup>	٦n	. 4	$\sim$					
ł							AOF =	· <b>o</b>   -	$R_{e}^{2} - R_{e}$	2	_15	57					
İ		1															75
	olute Open F	'low						McId	e 15.025	Angle	of Slo	ope 🕀 💶			Slop	0, n	1.
n	Hear	vy H_0	Did	not fl	are												
н	over By DI	vision		Conducto T R	d by	ett			Colculat J. B	arnet		93		Checked	в уг		
				۵ · ۰	مدلل							V-					

STATE OF NEW MEXICO		Form C-104
	ATION DIVISION	Revised 10-01-78 Format 06-01-83 Paga I
LAND OPPICE	W MEXICO 87501	
COPERATOR CAS REQUEST FO	DR ALLOWABLE	
I. Operation Amoco Production Company		
501 Airport Drive Farmington, NM 87401		
Recompletion Change in Transporter of:	Other (Please explain) Bry Gas Landensare	
If change of ownership give name and address of previous owner		
II. DESCRIPTION OF WELL AND LEASE Lease Name Scheider Gas Con C / Basin Dakota	ormation Kind of Lease State, Federal or Fee	Fee Loase No.
Line of Section 28 Township 32N Range	no and <u>1190</u> Foot From The <u>W</u>	County
II. DESIGNATION OF TRANSPORTER OF OIL AND NATURA	LGAS Address (Give address to which approved copy of P. O. Box 1702 Farmington, N	this form is to be sent) IM 87499
Name of Authorized Transporter of Casinghoad Gas or Dry Gas Z El Paso Natural Gas Company	Address (Give address to which approved copy of P. O. Box 990 Farmington, N	this form is to be sens) IM 87401
If well produces all or liquide. Unit Sec. Twp. Ree.	Is gas actually connected? When No	
If this production is commingled with that from any other lease or pool, NOTE: Complete Parts IV and V on reverse side if necessary.	give Commingling order number:	
VI. CERTIFICATE OF COMPLIANCE	OIL CONSERVATION DIV	ISION
I hereby turnity that the rules and regulations of the Oil Conservation Division have been complied with and that the information given is true and complete to the best of my knowledge and belief.	APPROVED JAN 25 By have the	1985
ANSI	TITLE DEPUTY OIL & GAS INSPECTO	R, DIST. <b>#3</b>
Admin. Supervisor DR	This form is to be filed in compliance if this is a request for allowable for a well, this form must be accompanied by a tests taken on the well in accordance with	with AULE 1104, newly drilled or deepened tabulation of the deviation ARULE 111.
1-2-85 (TUL) MEGETVE	All sections of this form must be filled shie on new and recompleted wells. Fill out only Sections 1. II. III. and	t out completely for allow-
(Dent) JAN 03 1985	veil name or number, or transporter, or other Separate Forms C-104 must be filed completed wella.	such change of condition. for each pool in multiply
USIBIT 33		ال المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع الم المراجع المراجع br>المراجع المراجع

	0+4 NMOCID A Aztec
STATE OF NEW MEXICO NERGY NO MINERALS DEPARTMENT	
Image: State of the section of the	Form C-104 Horsed 10-01-78 Format 08-01-83 P.O. BOX 2088 TE, NEW MEXICO 87 50 IEST FOR ALLOWABLE AND TRANSPORT OIL AND NATURAL GAS
Amoco Production Co.	MEGEL
501 Airport Drive, Farmington, N	M 87401
reson(s) for filing (Check proper box)           New Well         Change in Transporter of:           Recompletion         Oll           Change in Quassity         Castnessed Gas	Dry Gas Other (Please explain) OIL CON. DI Dry Gas DIST. 3
thange of ownership give name	
Chneider Gas Com "C"     1     Basin Dak       Chneider Gas Com "C"     1     Basin Dak       Contine     M     790     Feet From The South       Unit Letter     M     790     Feet From The South       Line of Section 28     Township     32N     Ram       DESIGNATION OF TRANSPORTER OF OIL AND NAT	Investige     Kind of Lease     Lease No.       Kota     State, Federal or Fee     Lease No.
Plateau, Inc.	Address (Give address to which approved copy of this form is to be sent) P.O. Box 489, Bloomfield, NM 87413
El Paso Natural Gas	Address (Give address to which approved copy of this form is to be sent) P.O. Box 990, Farmington, NM 87499
ell produces oil or liquids, Unit Sec. Twp. R location of tanks. M 28 32N 11	OW No
is production is commingled with that from any other lease or TE: Complete Parts IV and V on reverse side if necessary.	pool, give commingling order number:
CERTIFICATE OF COMPLIANCE	OIL CONSERVATION DIVISION
by certify that the rules and regulations of the Oil Conservation Division complied with and that the information given is true and complete to the b lowledge and belief.	APPROVED JUL / 1984 . 19
	TITLE SUPERVISOR DISTRICT # 5
Administrative Supervisor	This form is to be filed in compliance with RULE 1104. If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111. All sections of this form must be dilled
June 29, 1984 (Dece)	able on new and recompleted wells. Fill out only Sections I. II. III, and VI for changes of owner.
	Separate Forms C-104 must be filed for each pool in multiply completed wells.

#### IV. COMPLETION DATA

Designate Type of Completi	OLI Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Resty, 'Diff.
seeignete Type of Compile		X	X	1			t i i i i i i i i i i i i i i i i i i i
<u>4-2-84</u>	Date Compl. Ready to P 5-31-84	tod.	Totel Depth 7630			<b>P.B.T.D.</b> 7528	t
Elevenices (DF, RKB, RT, GR, etc.; 6058' GR	Neme of Producing Form Basin Dakota	otion	Top OLL/Ga	04		Tubing Dept	h
* See below				anda andara andar Anna Anna		Depth Casin 75	<b>7</b> Shoe
	TUBING,	ASING, AN	CEMENTIN	G RECORD			- STATE
HOLE SIZE	CASING & TUBH	IG SIZE		DEPTH SET		SA	CKS CEMENT
14-3/4	11-3/4" 42#	an ago ta	345	1		420 cu.	ft.
10-3/4"	8-5/8" 24#	δ 28 <b>#</b>	3271	1	1	965 cu.	ft.
7-7/8"	4-1/2" 11.	6#	7571	1. 3. 2		cu.	ft 1/10
	2-3/8"		7522	t			~17

V. TEST DATA AND REQUEST FOR ALLOWABLE (Test must be after recovery of social volume of load oil and must be equal to or encession of load oil and oil and must be equal to or encession of load oil and must be equal to or encession of load oil and must be equal to or encession of load oil and must be equal to or encession of load oil and must be equal to or encession of load oil and must be equal to or encession of load oil and must be equal to or encession of load oil and must be equal to or encession of load oil and must be equal to or encession of load oil and must be equal to or encession of load oil and must be equal to or encession of load oil and to of load oil and must be equal to or encession of load oil and must be equal to or encession of load oil and to of load oil and t

Des First New Oil Run To Tanks	Date of Test	Producting Method (Flaw, pump, gas lij	i, air./
Longth of Test	Tubing Pressure	Chaing Pressure	Choke Size
Astual Prod. During Test	Oll-Bbie.	Weise-Bhie.	Cap-MCF
	And the second division of the second divisio		

#### GAS WELL

Actual Prod. Test-MCF/D	Length of Test 3 hrs.	Bble. Condenante/LOACF	Gravity of Condeneate
Testing Listing (piec, beck p.)	Tubing Pressure ( shat-in )	Coming Process (Shut-is)	Choire Size
back pressure	2815 psig	2815 psig	

, 7412'-7394', 7434'-7430', 7446'-7440', 7465'-7460', 7492'-7486', 7560'-7524'

تو ندو ه. جر

STATE OF NEW MEXICO			
RGY AND MINERALS DEPARTME	NT		
	OIL CONSERVA	TION DIVISION	Form C-103
DISTRIBUTION	Р. Ф. ВО	× 2088	Revised 19-1-78
SANTA FE	SANTA FE, NEW	MEXICO 87501	
FILE			5a. Indicate Type of Lease
U.S:G.S:		Research and the second	State Fee X
LAND OFFICE	•	1970	5, State Oll & Gas Lease No.
OPERATOR	J		
SUNDR	Y NOTICES AND REPORTS ON	WELLS	
	OTHER-	OU UN26100 15 11	7. Unit Agreement Name
ITTE C. Cuercior		COA	8. Form or Lease Name -
Amoco Production Con	many	DIA DI	Schneider Gas Com "C"
Hinded I roduceron con	ap car y	ST. 2 UV	9, Well No.
501 Airport Drive 1	Farmington, New Mexico 87	401	1
JOI AILPOIL DEIVE,	dimingeon, non noner		10. Field and Pool, or Wildcat
M	700 South	1190	Basin Dakota
UNIT LETTER	750 FEET FROM THE BOULEN	LINE AND FLET FROM	
THE West LINE, SECTI	ON 28 TOWNSHIP 32N	N	
mmmmm	Flevation (Show whether	DF, RT, GR, etc.)	12. County
	6058' GR		San Juan
Check	Appropriate Box To Indicate N	Nature of Notice, Report or Ut	her Data
NOTICE OF I	NTENTION TO:	SUBSEQUEN	T REPORT OF:
FORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WORK	ALTERING CASING
PORARILY ABANDON		COMMENCE DRILLING OPNS.	PEUG AND ABARDONMENT
L OR ALTER CASING	CHANGE PLANS	CASING TEST AND CEMENT JOB	
		OTHEROMPICEION	
DTHER			
· · ·	(Charlington all partinent de	tails and give pertinent dates, includin	g estimated date of starting any proposed
Describe Proposed or Completed O work) SEE RULE 1103.	perations (Clearly state all periment de		
Moved in and rigged depth is 7528'. Se Set cement retainer cement. Stung out step rate squeeze 1	up service unit on 5-9-8 t a cement plug from 7605 at 7564' and cement thro of retainer. Shot squeez 42 cu. ft. Class "B" Near	84. Total depth of the v 5'-7540' with 26 cu. ft. ough retainer with 59 cu. ze holes with 4 jspf at t cement with .8% Halad 9	vell is 7630' and plugback Class "B" Neat cement. ft. Class "B" Neat 7390'. Attempted to 9 but pressure dropped of
Perforated interval	7306'-7305', 4 jspf, .4	1" in diameter for a sque	eeze. Squeezed at 7305' 1s: 7412'-7394'

with 212 cu. ft. Class "H" and .8% Halad 9 FLA. Perforated intervals: 7412'-7394', 7434'-7430', 7446'-7440', 7465'-7460', 7492'-7486', 7560'-7524', 2 jspf, .38" in diameter.

Fraced down 2-7/8" butt tubing with crosslinked gel and 20-40 sand as follows:

own 2-7/8	butt tubing with crossinked ger and	20 40 Build up 1011010	(BPM)
Stage	Liquid Vol. (gals.)	Sand Conc. (ppg)	Rate
1	14,000	pad (0)	20
2	7,000	. 1	20
3	13,000	2	20
4	32,000	3	20
5	30,000	4	20
6	4700 + surface line vol. (2% KCL)	flush	20

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

NED Do Jamo	Dist. Admin. Supervisor	DATE June 21, 1984
JAGVED BY June 2 Comp	SUPERVISOR DISTRICT # 3	DATE JUN 26 1984

25.2

Land 2-3/8" tubing at 7522' and released rig on May 31, 1984.

à. .

STATE OF NEW MEXICO	
STATE OF NEW MICHOS	
OIL CONSERVATION DIVISION	
BO BOX 2088	Form C-103
DISTRIBUTION F.O. BOX 2000	KGA1250 13-1-10
SANTA FE, NEW MEXICO 87501	En Indicate Type of Leave
	Su. Indicate Type of Lease
U.S.G.3.	State Fee X
	5. State Oil & Gas Lease No.
OPERATOR	
SUNDRY NOTICES AND REPORTS UN MELLO	
(DO NOT USE THIS FORM PPLICATION FOR PERMIT -" (FORM C-101) FOR SUCE PROPOSALS.)	7. Unit Agreement Name
OIL GAS WELL X OTHER-	
	8. Farm or Lease Name -
CON D.	Schneider Gas Com. "C"
Amoco Production Company	9, Well No.
idress of Operator	1
501 Airport Drive, Farmington, New Mexico 87401	Lin Field and Real or Wildcat
acction of Well	To, Field and Poor, or window
M 790 FEET FROM THE South LINE AND 1190 FEET FRO	Basin Dakota
UNIT LETTER	
100	
THE West LINE, SECTION 28 TOWNSHIP 321 RANGE 100 NMP	<i>«ХШШШШ</i>
	12 County
15. Elevation (Show whether DF, RI, GR, etc.)	
6058' GR	San Juan
Club Appropriate Boy To Indicate Nature of Notice, Report of O	ther Data
Check Appropriate Box To indicate titlate of former, subscores	T REPORT OF:
NOTICE OF INTENTION TO:	
	ALTERING CASING
coloride The plant of the plant	PLUG AND ABANDONMENT
PORAFILY ABANDUN	
	11
	J]
1 OIL CONSERVER Office of pertinent details, and give pertinent date Dippent	he estimated date of starting any proposed.
Describe Proposed or Completed Operations (Clearly state and persisting SANTA FF	N
	10 1 10
Spudded a 14-3/4" hole on 4-2-84. Drilled to 350". Set 11-3/4",	42%, H-40 casing at
345' and cemented with 420 cu. ft. Class B w/2% CACl2. Circulated	cement to surface.
Processing to 1000 psi. Drilled a $10-3/4$ " hole to a T	CD of 3271'. Set
o roll 2/4 c 284 C 90 proint at 3271'. Cemented with 847 cu. ft	. Class "B" 50:50
$8 \pm 5/8^{\circ}$ , $24\%$ ( $20\%$ , $5 \pm 60$ lasting at $52\%$ ). Commenced when the Circula	ated cement to surface.
poz and tailed in with 118 cu. it. Class by Near Cenerce, official	ro lost circulation
A 7-7/8" hole was drilled with mud to a depth of 4750 where sever	E nud the well was
problems were encountered. After losing in excess of 2000 bbis of	I muu the werr was
dried up with air and drilling continued to 7332 feet. Severe hold	Le slougning at that
point caused the drill string to become stuck. A free point was	run and the pipe was
backed off at 6657 leaving 17 drill collars in the hole. A number	r of unsuccessful
fiching attempts were made to recover the collars. When sloughing	g kept fishing tools
finding acting bolow 6000 ft the well was plugged back with a bubb.	le cement slurry.
Provide according to the drill pipe became stuck. Attempts to	o free the pipe by
buring cement operations the differ pipe scale and A Chartfor free point	was run and the
circulating out the cement were unsuccessful, and inter the potted	from 3865'-3271'
drill pipe was cut off at the feet. A kick off plug was spotted	+ 27701_22001 with
with Class H cement w/40% silica flour. Set another cement plug	at 5770 - 5200 WILL
148 cu. ft. Class "H" with 40% silica flour. Drilled plug to 357	y IC. whipstocked
with 2° bent sub, and downhole motor. Drilled 7-7/8" hole to 7630	) It. with air. Kan
casing (4-1/24 11.6#, N-80). Had fill, attempted to circulate or	ut fill. Casing stuck
to TE 71 Cat aling and released rig on 5/8/84.	
all /J/LY Det SILPS and released fig on by browledge and belief.	
I hereby certify that the information above is the and complete to the sector of the	
	Turno 15 109/
7 Amor Dist. Admin. Supervisor	DATE JUILE LJ , 1704

Do Jamon	TITLE Dist. Admin. Supervisor	DATE June 15, 1984
NDITIONS OF APPROVAL, IF ANY:	SUPERVISOR DISTRICT # 3	DATE JUN 25 1984

STATE OF NEW MEALO			AZTEC
	OIL CONSERVA	TION DIVISION	Ferry (-103
DISTRIBUTION	Р. Ф. ВОХ	\$ 2088	Revised 10-1-78
SANTAFE	SANTA FE, NEW	MEXICO 87501	
U.S.G.S.			State Fee X
LAND OFFICE		OL COMPENSION	S. State Otl & Gas Lease No.
OPERATOR		SANTA - DIVI	
	CES AND DEDODTS ON		
DO NOT USE THIS FORM FOR PROPOSALS T	TO DAILL ON TO DEEPEN OF PLUGIE	ST. E. C. E. H. W. E. []	
			7. Unit Agreement Name
	u	MAY 01 1984	
iame of Operator		MALOT 1994	8. Farm or Lease Ivame
Amoco Production Comp	pany	OIL CON. DIV.	Schneider Gas Com"C"
Address of Operator		DIST. 3	3. WEIT 110.
501 Airport Drive H	Farmington, N_M_874	01	10. Fleid and Pool, or Wildcat
_ocation of Well	0	1100	Basin Dakota
UNIT LETTER 790	FEET FROM THE SOUTH	LINE AND 1190 PEET FROM	MINIMUM CONTRACTOR
	32N	10₩	<b>VIIIIIIIIIIIIIII</b>
THE West LINE, SECTION 28	TOWNSHIP	RANGENMPM	AIIIIIIIIIIIIIIII
	N 15. Elevation (Show whether	DF, RT, GR, etc.)	12. County
	N6058' GR		San Juan
Check Approp	riate Box To Indicate N	ature of Notice, Report or Or	her Data
NOTICE OF INTENT	ION TO:	SUBSEQUEN	T REPORT OF:
		_	
AFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WORK	ALTERING CASING
MPORABILY ABANDON	_	COMMENCE DRILLING OPNS.	PLUG AND ABANDONMENT
LL OR ALTER CASING	CHANGE PLANS	CASING TEST AND CEMENT JOB	
Development II I		OTHER	
OTHER DEVIALE HOLE			
Describe Proposed or Completed Operations	s (Clearly state all pertinent dete	ils, and give pertinent dates, includin	g estimated date of starting any proposec
work) SEE RULE 1103.	<b>.</b>		1 to deviate the
Amoco Production Company	requests confirmation	on of the verbal approva	ann of this office.
referenced hole per telec	on between riank on	avez, NHOOD, and Scott I	
011 4-24-04.			
The hole had sloughed in	around our drill co	llars which ultimately c	aused the collars to be
stuck downhole. After un	sucessful attempts	to pull out of the hole	the drill collars were
cut. This left 17 drill	collars, a bit, and	bit sub in the hole at	approximate interval of las the hole was sloughe
6811'-7332'. Attempts to	retrieve the dilli	corrars were unsuccessive	as the hole was stodyno
in.			
Amoco proposes to spot 85	58 cu. ft. Class "B"	cement with 77# B37 bub	bles/sx from interval
4000'-6000'. After waiti	ing 12 hours on ceme	nt the cement will be ta	gged to insure proper
bonding.			
the second second second second second second second second second second second second second second second se	. 1 .1 07	Cacilo and 40% Silica Flo	ur will then he spotted
A 361 cu. ft. Class "H" c	ement plug with 2%	(a012 and 40% billea lie sing) = 4000' then allow	red to set up 24 Hr.
from interval 3271 (base	notor will be trippe	d in the hole and kicked	off to 15-20' from the
wellbore. Trip in the ho	ole with a slick bot	tom-hole assembly then o	ontinue drilling
operations with Gas/Air o	circulating media.		
Copies of this sundry not	tice are being sent	to all offset operators	in compliance with State
. I hereby certify that the information above	is true and complete to the best	of my knowledge and belief.	Rule III.
DNCI		Libertine Companyi com	4-26-84
15DShaw	TITLE	ministrative Supervisor	DATE
T. Sall		SUPERVISOR DISTRICT 署 3	MAY 01 1984
PROVED BY Thick - Elery			DATE NUMBER OF LEVEL

			- /
ONDITIONS	OF	APPROVAL.	IF ANY

•						NMC	CD-A	2782
BTATE OF NEW MEXIC NERGY AND MINUTALS DEPAR		OIL (	CONSERVA		DN DIVISION		30-04 Form (-101 Revised 10	5-25883 -1-70
DISTRIGUTION		SAL	P. O. DO NTA FE NEW	x 20 / ME	88 XICO 87501		5%, Indicate	é Type of Leaue
SANTA FE		3/31					STATE	rec X
VILC U.S.G.3.							.5, Sinte Oil	& Gin Lound Ho.
DEPERATOR							XIIIII	<u>IIIIIIIIIIIIII</u>
APPLICATIO	N FOR PE	RIALT TO	DRILL, DEEPE	11, C	OR PLUG BACK		2. Circle Acre	Anneul Kome
Type of Wark			r1					
Type of Well			DEEPEN L		PLUC		8, l'um or l	.cone Nume
WELL CAS WELL	011	5 A			JONE X	JONE	Schneid	er Gas Com "C"
Manie of Operator	ompany						1	
Address of Operator	<u> </u>				· · · · · · · · · · · · · · · · · · ·		10. Field un	nd Pool, or Wildcat
501 Airport Drive,	Farming	ton, New	w Mexico 87	401	) Court	h	Basin D	
Location of Well UNIT LETTE	• <u>M</u>	LOC.	ATED 790	rt	ET FROM THE DULL	<u>11</u> сунс	NER	
ND 1190 FEET FROM	THE West	LIN	t or stc28	TH	vp. 32N .st. 1	OW HIMPM	VIIII	
	IIIII	<u>IIIII</u>		(l)		HHHH	Son Tun	
	<u>11111</u>	<u>HHH</u>		44	HHHHHHH	+++++++	I Jan Jua	
				///				
	tttttt	ttttt	<u> </u>	N To	Froposed Depth	19A. Formatio	on	26. Rotary or C.T.
	IIIII	<u>IIIII</u>	11111111	2	7580	D	akota	Notary
. Lievations (Show whether DF,	RT, etc.)	21A, Kind	6 Status Plug. Bon torrido	d   21	IB. Drilling Confideror Unknown		As soc	on as permitted
6058'GR		Jola	Lewide					
		P	ROPOSED CASING	ANU	CEMENT PROGRAM			EST TOP
SIZE OF HOLE	SIZEOF	CASING	WEIGHT PER F	00T	SETTING DEPT	H SACKSU	0	Circ.to Surface
14-3/4"	<u></u>	3/4" 5/8"	$42\#, \Pi^{-}$	- <u>40</u> -80	3265'	55	0	Circ. to Surfac
7-7/8"	4-	1/2"	11.6#, K-	-55	3065'-7580'	100	0	3200'
	Li	ner	1			•		
ioco proposes to dr illed to the surfac low solids nondisp le logs. Copies of dicated to El Paso	ill the ce casing ersed much f all log Natural	above we g point d system gs will Gas.	ell to develo using native n. Completio be filed upo	op t e mu on w on c	the Basin Dakon nd. The well w will be designe completion. Ga	a reserv vill then ed after as produc	be dril evaluatio	led to TD with on of open this well is
oco's standard blo sign.) Upon compl	wout pre etion, t	vention he well	will be emp site will be	Loye e cl	ed (see attache eaned and the	ed drawin reserve	g for blo pit fillo	owout preventer ed and leveled.
	A 10		0	1 0	- 1	17 2 8	VL	E IN
	AP UN	ILESS DRI	LING IS COMME	NC	T	8 <b>0</b>	0 4 10 4 -	Ľ
	SPL	JD NOTIC	E MUST BE SUBI	MITT	ED	FEE	SU1 1984	
	WI	THIN 10 D	AYS.			OILC	ON D	
ABOVE SPACE DESCRIBE PR E 2046, GIVE SLOWDUT PARVENT	ER PROSED PR	OGRAMI IF	PROPOSAL IS TO DEEP	PEN OR	PLUG BACK, SIVE DATA		4ST. 3	l .
ereby certify that the informati-	on above is t	rue and comp	plets to the best of	my kn	pwiedge and belief.			
	La	when	Tule Distric	t Ac	<u>lm. Supervisor</u>		Dare Jan	uary 30, 1984
(This space for	State Very			SIH	PERVISOR DISTRICT		P" F*	8 63 1004
BRAVED BY Such	Clam	/	TITLE	NUR	LENTERON DISTRICT # 3		DATE FE	B U1 1984
	ANYI							

.

5 ONDITIONS OF APPROVAL, IF ANYI

# STATE OF NEW MEXICO

.....

. 55

# OIL CONSEXVATION DIVISION P. 0. BOX 2088 SANTA FE, NEW MEXICO 87501

Form C-107 kevised 10-1-78

1

·		All distance	s munt be fr	um the cult	e heunderles	d the Section	n.	
erator				Lease		A	P	Well No.
AMOCO PRODUC	TION COMPAN	٧Y		SCHN	EIDER GAS	COM C		1
t Letter Sect	ion	Township		Range		County		
M	28	32N		ŀ	100	San	Juan	
ual Footage Location	of Well:						1.7	
790 fee	t from the Sc	outh	line and	1190	fee	t from the	West	line
ind Lovel Elev:	Producing Form	nation		Pool				Dedicated Acreage:
6058	Basin	Dakota			Dakot	a		3x0 Acres
<ol> <li>Outline the ac</li> <li>If more than interest and re</li> </ol>	one lease is byalty).	dedicated	to the we	ll, outline	each and id	entify the	ownership t	thereof (both as to working
If more than o dated by comm Yes If answer is this form if ne No allowable w forced-pooling	ne lease of d nunitization, u No If ar 'no,' list the cessary.) vill be assigne , or otherwise)	ifferent ow nitization, nswer is "'y owners and ed to the w or until a	nership is force-pool ves,'' type I tract des ell until a non-standa	dedicated ling.etc? of consolicriptions ll interest ard unit, e	dation <u>C</u> which have s have been liminating su	ommuniti actually be consolidat	zed en consolid ted (by con ts, has bee	lated. (Use reverse side of mmunitization, unitization, n approved by the Commis-
				RE	<b>CEIV</b> N 3 0 1984	ED	l hereby tained h best of i	CERTIFICATION certify that the information con- terein is true and complete to the my knowledge and belief.
	   +	° 		OIL	CON. D DIST3_	IV. 	Name Darre Position	11 D. Lawson
	   Se	C .	• <b>9 8</b> 00-0-0				Distri Compony Amoco Date Janua:	ict Adm. Supervisor Production Company ry 23, 1984
			28				l hereb shown c nates o under m is true knowled	y certify that the well location on this plat was plotted from field if actual surveys made by me or a supervision, and that the same and correct to the best of my lge and belief.
11901 						· · · · ·	Date Surv Janz Registere and Fred Certificat	eyed 5014 lerry 11. 1981 d Professional Engineer and Surveyor B. Kerr Jr.
		7 7 10 7	0001				2050	Action and



Mary Corley WL1-19.171 281-366-4491 (direct) 281-366-0700 (FAX) corleyml@bp.com

P. O. Box 3092 Houston, Texas 77253-3092 501 Westlake Park Boulevard Houston, Texas 77079

February 12, 2003

State of New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Application For Well Category Determination NGPA Section 107 San Juan County, New Mexico

Attached please find a check in the amount of \$125.00 payable to the State of New Mexico for NGPA Section 107 Well Category Determinations for the below listed BP America Production Company wells.

Lopez Gas Com 1E	Dakota Pool	NM - 34
Schneider Gas Com C 1	Dakota Pool	NM - 09
Jacquez Gas Com F 1	Dakota Pool	NM - 09
Sullivan Gas Com 1A	Mesaverde	NM - 48
Hubbard A 1E	Mesaverde	NM - 48

Also enclosed, for review and approval by the Oil Conservation Division, are the original and one copy of an Application for Well Category Determination for each of the referenced wells.

Very truly yours,

Mary Corley Sr. Regulatory Analyst

Enclosures





BP America Production Company 509 South Boston Tulsa, OK 74103

PAY TO THE ORDER OF

> STATE OF NEW MEXICO 2040 PACHEO ST Santa FE NM 87505

One Hundred Twenty Five and 00/100 Dollars

TRACE NO .: 2000040613

CITIBANK DELAWARE, A SUBSIDIARY OF CITICORP ONE PENN'S WAY, NEW CASTLE, DE 19720

# #0800552148# #031100209#

39116481

.

No. 0800552148 62-20 311 02/19/03



AUTHORIZED SIGNATURE

### STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION COMMISSION

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION COMMISSION OF NEW MEXICO FOR THE PURPOSE OF CONSIDERING:

> **CASE** NO. 7361 **Order** No. R-6884

APPLICATION OF SOUTHLAND ROYALTY COMPANY FOR DESIGNATION OF A TIGHT FORMATION, SAN JUAN COUNTY, NEW MEXICO.

#### ORDER OF THE COMMISSION

#### BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on September 29, 1981, at Santa Fe, New Mexico, before the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission."

NOW, on this <u>12th</u> day of January, 1982, the Commission, a quorum being present, having considered the testimony presented and the exhibits received at said hearing, and being fully advised in the premises,

#### FINDS:

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

(2) That, pursuant to Section 107 of the Natural Gas Policy Act of 1978, and CFR Section 271.703, applicant Southland Royalty Company requested the designation as a "tight formation" of the Dakota formation underlying the following described lands:

#### SAN JUAN COUNTY, NEW MEXICO

TOWNSHIP 31 NORTH, RANGE 10 WEST, NMPM Sections 1 through 36: All

TOWNSHIP 31 NORTH, RANGE 11 WEST, NMPM Section 1: All Sections 12 and 13: All Sections 22 through 27: All Sections 34 through 36: All

TOWNSHIP 32 NORTH, RANGE 10 WEST, NMPM

Sections 7 through 36: All

Case No. 7361 Order No. R-6884

۵

TOWNSHIP 32 NORTH, RANGE 11 WEST, NMPM Sections 7 through 27: All Sections 34 through 36: All

TOWNSHIP 32 NORTH, RANGE 12 WEST, NMPM Sections 7 through 33: All

TOWNSHIP 32 NORTH, RANGE 13 WEST, NMPM Sections 7 through 33: All

containing a total of 92,871 acres, more or less.

(3) That at the hearing, applicant requested dismissal of that portion of the application pertaining to Sections 25 through 27, inclusive, and Sections 32 and 33, all in Township 32 North, Range 12 West, NMPM, containing some 3,200 acres, more or less, leaving for consideration some 89,671 acres, more or less.

(4) That said request for dismissal should be approved, and no further consideration given herein to said lands.

(5) That while the application was for designation of the Dakota formation as a tight formation, the Dakota formation constitutes but a portion of the "Dakota Producing Interval," which, as defined by the Division, comprises the vertical limits of the Basin-Dakota Gas Pool, being from the base of the Greenhorn Limestone to a point 400 feet below the base of said formation and consisting of the Graneros formation, the Dakota formation, and the productive upper limit of the Morrison formation.

(6) That inasmuch as practically all so-called "Dakota" wells drilled in the subject area are, or potentially are, tested in and/or completed in the entire Dakota Producing Interval, and the well data presented at the hearing of this case involves the entire Dakota Producing Interval, the application should be broadened to cover all of said producing interval throughout the area.

(7) That the Dakota Producing Interval, hereinafter referred to as the "Dakota," consists of a near blanket sandstone (probably an almost continuous series of northwest trending barrier beach sandstones composed of fine-grained quartose sandstones and carbonaceous shales with occasional conglomerates and coals in the basal part).

(8) That from the logs available at the hearing, the top of the Dakota in the area ranges from a depth of 5234 feet to 7220 feet and averages some 6753 feet beneath the surface. -3-. Case No. 7361 Order No. R-6884

(9) That the only test data for flow rates prior to stimulation for wells within the area indicates that the Aztec Pierce Well No. 2 in Section 30, Township 31 North, Range 10 West, NMPM, had a stabilized production rate calculated at atmospheric pressure of 208.1 MCF of gas per day; that other wells in the immediate vicinity of the area but just outside had stabilized production rates calculated at atmospheric pressure prior to stimulation ranging from 21.7 MCF per/day to 224.1 MCF per day.

(10) That none of the stabilized production rates cited above exceeds the maximum stabilized production rate set forth in 18 C.F.R. Section 271.703(c)(2)(i)(B) of 251 MCF per day for wells at the average depth to the top of the formation for this area (6753 feet), and it is not expected that the average well in the area will exceed such rate.

(11) That in situ permeability calculations are available for only two wells in the general area, being the Southland Pierce Well No. 2 and the Southland Patterson "B" Com Well No. 1E; that the in situ permeabilities calculated for said wells are .0609 md and .0877 md, respectively, and average .0743 md.

(12) That the average in situ permeability for all wells in the area is not expected to exceed 0.1 md, the limit set forth in 18 C.F.R. Section 271.703(c)(2)(i)(A).

(13) That prior to stimulation, the average well in the area is expected to produce far less than the maximum five barrels of crude oil per day as set forth in 18 C.F.R. Section 271.703(c)(2)(i)(C).

(14) That 18 C.F.R. Section 271.703(c)(2)(i)(D) provides that "if the formation or any portion thereof was authorized to be developed by infill drilling prior to the date of recommendation and the jurisdictional agency has information which in its judgment indicates that such formation or portion subject to infill drilling can be developed absent the incentive price established in paragraph (a) of this section then the jurisdictional agency shall not include such formation or portion thereof in its recommendation."

(15) That the Division, by its Order No. R-1670-V, dated May 22, 1979, and effective July 1, 1979, approved infill drilling for the Basin-Dakota Gas Pool in San Juan and Rio Arriba Counties, New Mexico, and said pool includes the Dakota Producing Interval in the area under consideration here.

(16) That Southland in this hearing indicated that under current Section 103 prices of the NGPA of 1978, reserves of

-4-Case No. 7361 Order No. R-6884

350,000 MCF of gas are necessary to provide it with the economics necessary to justify drilling a Dakota well at its current drilling costs, while 150,000 MCF of reserves will justify a well at Section 107(c)(5) prices (tight formations).

(17) That the economics as presented by Southland in this case are reasonable, and lands which indicate recoverable reserves of 350,000 MCF or more of gas should be dismissed from further consideration, while lands indicating recoverable reserves of less than 350,000 MCF of gas should be considered for recommendation as a tight formation.

(18) That the Division, in approving infill drilling for the Basin-Dakota Gas Pool, based its approval on the premise that the reservoir was of low permeability and that 320-acre wells were not draining more than the 160-acre tract upon which they were located.

(19) That the remaining reserves under the 160-acre tract upon which the unit well is <u>not</u> located should be similar to, if not equal to, the original reserves under the 160-acre tract upon which the unit well is located.

(20) That cumulative production figures and estimates of ultimate recoverable reserves were presented at the hearing for some of the developed tracts within the area, while cumulative production figures only are available for the remainder of the developed tracts.

(21) That to determine that under certain lands insufficient reserves are available to justify drilling absent the Section 107 incentive price, it is reasonable to make the following assumptions:

- A. No primary drilling, i.e., no drilling on 320-acre spacing, is prima facie evidence that the lands are edge lands to the reservoir and drilling has not occurred because of the probable marginal nature of the reserves.
- B. Primary drilling has occurred but the calculated total ultimate reserves or the cumulative production for long-connected wells indicates low ultimate recovery (less than 350,000 MCF of gas).

(22) That to determine that under certain lands sufficient reserves may reasonably be expected to be recovered to justify drilling without the Section 107 incentive price, it is reasonable to make the following assumptions:

-5-Case No. 7361 Order No. R-6884

- A. Calculated ultimate recoverable reserves are 350,000 MCF or more.
- B. Calculated ultimate recoverable reserves are not available, but cumulative recoveries indicate that 350,000 MCF of gas already has been recovered.

(23) That the assumptions in Findings Nos. (21) B. and (22) A. and B. above may reasonably be based on offsetting wells in a given area.

(24) That the evidence indicates that it is unreasonable to expect that wells drilled in the area described in Finding No. (2) above less the area described in Finding No. (3) above will yield an average of 350,000 MCF or more of gas, but that it is reasonable to expect that such wells will yield an average of 150,000 MCF of gas, and that the incentive Section 107 (c)(5) price is necessary to justify drilling in said area.

(25) That there are fresh water aquifers underlying the lands being considered, and these aquifers extend to a depth of approximately 1200 feet.

(26) That there is a vertical distance of some 5500 feet between the base of the lowermost of said aquifers and the top of the Dakota, and this distance, combined with the required casing and cementing program for wells in the area, will assure that development of the Dakota will not adversely affect the fresh water aquifers (during both hydraulic fracturing and waste disposal operations) that are or are expected to be used as a domestic or agricultural water supply.

(27) That the Dakota Producing Interval underlying the following lands meets all of the guidelines set forth in 18 C.F.R. Section 271.703(c)(2)(i), subsections (A), (B), (C), and (D), and should be recommended for designation as a tight formation:

TOWNSHIP	31 NORTH, RANGE 10 WEST, NMPM
Sections	1 through 36: All
TOWNSHIP	31 NORTH, RANGE 11 WEST, NMPM
Section	1: All
Sections	12 and 13: All
Sections	22 through 27: All
Sections	34 through 36: All
TOWNSHIP	32 NORTH, RANGE 10 WEST, NMPM
Sections	7 through 36: All

-6-Case No. 7361 Order No. R-6884

> TOWNSHIP 32 NORTH, RANGE 11 WEST, NMPM Sections 7 through 27: All Sections 34 through 36: All

> TOWNSHIP 32 NORTH, RANGE 12 WEST, NMPM Sections 7 through 24: All Sections 28 through 31: All

> TOWNSHIP 32 NORTH, RANGE 13 WEST, NMPM Sections 7 through 29: All Sections 32 through 36: All

containing some 89,671 acres, more or less, all in San Juan County, New Mexico.

#### IT IS THEREFORE ORDERED:

(1) That it be and hereby is recommended to the Federal Energy Regulatory Commission pursuant to Section 107 of the Natural Gas Policy Act of 1978, and 18 C.F.R. Section 271.703, that the Dakota Producing Interval, being from the base of the Greenhorn Limestone to a point 400 feet below the base of said formation and consisting of the Graneros formation, the Dakota formation and the productive upper portion of the Morrison formation, underlying the following described lands in San Juan County, New Mexico, be designated as a tight formation:

TOWNSHIP	31	NORTH, RANGE	10 WEST. NMPM
Sections	1	through 36:	All
TOWNSHIP	31	NORTH, RANGE	11 WEST, NMPM
Section	1:	A11	
Sections	12	and 13: All	
Sections	22	through 27:	A11
Sections	34	through 36:	A11
			· · · · ·
TOWNSHIP	32	NORTH, PANGE	10 WEST, NMPM
Sections	7	through 36:	A11
TOWNSHIP	32	NORTH, RANGE	11 WEST, NMPM
Sections	7	through 27:	A11
Sections	34	through 36:	A11
TOWNSHIP	32	NORTH, RANGE	12 WEST. NMPM
TOWNSHIP Sections	<u>32</u> 7	NORTH, RANGE through 24:	12 WEST, NMPM All
TOWNSHIP Sections Sections	<u>32</u> 7 28	NORTH, RANGE through 24: through 31:	12 WEST, NMPM All All
TOWNSHIP Sections Sections	<u>32</u> 7 28	NORTH, RANGE through 24: through 31:	12 WEST, NMPM All All
TOWNSHIP Sections Sections TOWNSHIP	32 7 28 32	NORTH, RANGE through 24: through 31: NORTH, RANGE	12 WEST, NMPM All All 13 WEST, NMPM
TOWNSHIP Sections Sections TOWNSHIP Sections	32 7 28 32 7	NORTH, RANGE through 24: through 31: NORTH, RANGE through 29:	12 WEST, NMPM All All 13 WEST, NMPM All

-7-Case No. 7361 Order No. R-6884

containing approximately 89,671 acres, more or less.

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

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

STATE OF NEW MEXICO OIL CONSERVATION COMMISSION

(5)

ARNOLD / Chairman ERY

ALEX J. ARMIJO Member MUCH JOE D. RAMEY, Member & Secretary

SEAL

٢,



C. Mike Stoopher PP 47114 - 47115 OCD - Federal Register / Vol. 47, No. 194 / Wednesday, October 6, 1982 / Rules and Regulations

(B) *Depth.* The Wattenberg J Sand Formation ranges in depth from 7,600 feet to 8,400 feet. The average depth is 8,000 feet.

(ii) The J Sand Formation.—(A) Delineation of formation. This formation underlies all or portions of Townships 1 and 2 South, Ranges 69 and 70 West; Townships 1 and 2 North, Range 70 West; Townships 3 and 4 North, Ranges 69 and 70 West; Township 5 North, Range 63 West; and Township 6 North, Ranges 63 through 69 West, 6th P. M.

(B) Depth. The J Sand Formation ranges from a depth of 7,600 feet to 8,400 feet. The average depth is approximately 8,000 feet. [FR Doc. 82-27433 Filed 10-5-82: 6:45 am]

BILLING CODE 6717-01-M

#### 18 CFR Part 271

[Docket No. RM79-76-103 (New Mexico-9); Order No. 262]

#### High-Cost Gas Produced From Tight Formations; New Mexico; Final Rule

**AGENCY:** Federal Energy Regulatory Commission, DOE.

#### ACTION: Final rule.

SUMMARY: The Federal Energy Regulatory Commission is authorized by section 107(c)(5) of the Natural Gas Policy Act of 1978 to designate certain types of natural gas as high-cost gas where the Commission determines that the gas is produced under conditions which present extraordinary risks or costs. Under section 107(c)(5), the Commission issued a final regulation designating natural gas produced from tight formations as high-cost gas which may receive an incentive price (18 CFR 271.703). This rule established procedures for jurisdictional agencies to submit to the Commission recommendations of areas for designation as tight formations. This final order adopts the recommendation of the State of New Mexico Energy and Minerals Department, Oil Conservation Division, that the Dakota Producing Interval be designated as a tight formation under § 271.703(d).

**EFFECTIVE DATE:** This rule is effective September 30, 1982.

### FOR FURTHER INFORMATION CONTACT:

Leslie Lawner, (202) 357-8511 or Victor Zabel, (202) 357-8618.

#### SUPPLEMENTARY INFORMATION:

The Commission hereby amends \$ 271.703(d) of its regulations to include the Dakota Producing Interval in San Juan County, New Mexico, as a

designated tight formation eligible for incentive pricing under § 271.703. The amendment was proposed in a Notice of Proposed Rulemaking by the Director, Office of Pipeline and Producer Regulation, issued March 3, 1982 (47 FR 10241, March 10, 1982),' based on a recommendation by the State of New Mexico Energy and Minerals Department, Oil Conservation Division (New Mexico) in accordance with § 271.703, that the Dakota Producing Internal be designated as a tight formation.

The Commission received two comments in response to the Notice of Proposed Rulemaking in this docket, one jointly filed by Southern California Gas Company and Pacific Lighting Gas Supply Company (SoCal) and one from Pacific Gas and Electric Company (PG&E).

Both commenters noted that New Mexico Order No. R-1670-V, issued May 22, 1979, authorized infill drilling in the Basin Dakota Gas Pool. The fact that the recommended area is subject to an infill drilling order, the commenters argue, indicates that certain areas within the recommended formation may be subject to exclusion from the tight formation designation under \$ 271.703(c)(2)(i)(D) provides that:

If the formation or any portion thereof was authorized to be developed by infill drilling prior to the date of recommendation and the jurisdictional agency has information which in its judgment indicates that such formation or portion subject to infill drilling can be developed absent the incentive price established in paragraph (a) of this section then the jurisdictional agency shall not include such formation or portion thereof in its recommendation.

Section 271.703(b)(6) defines infill drilling as any drilling in a substantially developed formation or portion thereof. subject to well spacing or proration unit requirements which were amended by the jurisdictional agency after the formation or portion thereof was substantially developed, and which were adopted for the purpose of more effective and efficient drainage of the reservoirs in such formation. Therefore. if the recommended formation was substantially developed at the time that Order No. R-1670-V was issued, then such area should be excluded from the tight formation designation.

The recommended area was governed by special rules and regulations promulgated by New Mexico in Order No. R-1670-C, issued November 4, 1960. This order consolidated all Dakota

Producing Interval production in San Juan and Rio Arriba Counties, created the Basin Dakota Gas Pool, and established 320 acre gas proration units. Order No. R-1870-V retained the 320 acre units, but allowed the drilling of an additional well on each unit. There are 304 drilling units contained in the recommended area. Prior to the issuance of Order No. R-1670-V, wells had been completed on 23 of these units. representing 7.6% of the available drilling sites. The Commission therefore finds that the recommended area does not fall within the infill drilling exclusion because the area was not substantially developed at the time the infill drilling order was issued.

SoCal also raised specific questions concerning the recommendation.2 In Exhibit No. 6, the applicant before New Mexico presented pressure data for calculation of the permeability of the Patterson "B" well; however, a shut-in bottom hole pressure from a well 9,600 feet south of this well was used for this calculation. SoCal questions the accuracy of permeability figures based on data from more than one well. The Commission recognizes that it is an accepted procedure when working with formations of low permeability characteristics to use data from other wells, since the bottom hole pressure will not vary appreciably across the area, and the amount of time needed for the pressure to build back up in a recently drilled well is too long for practical measurement.

With respect to Exhibit No. 7, SoCal questioned the validity of using a calculated "shut-in bottom hole pressure at draining radius" (which measures wellhead pressure) in determining *in situ* permeability for the Southland Pierce No. 2 Well. The Commission finds that this is a standard petroleum engineering practice to calculate bottom hole pressure from a wellhead pressure by using a generally accepted formula.

SoCal further questioned Exhibit No. 13, which gives cumulative oil

<sup>2</sup> SoCal notes that a transcript of the New Mexico proceeding was not in the Commission's files, and that this made it impossible for SoCal to correctly evaluate the data submitted in support of the recommendation. The Commission staff had requested a copy of the transcript from New Mexico, but did not receive it until after SoCal's comments were filed. There is no affirmative requirement that a jurisdictional agency submit a transcript with its recommendation. However, SoCal was informed of the receipt of the transcript. and had an opportunity to examine it. SoCal has not filed any additional comments since the transcript was received. Moreover, the Commission's review of the transcript indicates that it does not contain any type of data that was not included to live recommendation as initially raceived by the Commission.

<sup>&#</sup>x27;No party requested a hearing and no hearing was held.

production data for neveral wells in the area, but which gives no rate of oil production, in light of

§ 271.703(c)(2)(i)(C), which provides that no well drilled in the tight formation is expected to produce, before stimulation, more than five barrels of crude oil per day. In response to an inquiry by Commission staff, a letter was submitted by the applicant to New Mexico, dated July 23, 1982, in which it clarified the evidence in this exhibit, by stating that (1) oil and condensate production is not distinguished by the producer when reporting to New Mexico. (2) the production listed in the exhibit is post-stimulation condensate production, and (3) there is so actual oil production from the wells listed in the exhibit.

Finally, PG&E maintained that since El Paso Natural Gas Company, which has an extensive infill drilling program in the San Juan Basin, is able to price gas produced through this program on a cost-of-service basis, it is guaranteed full recovery of its costs and expenses, plus a reasonable rate of return. PG&E argues therefore that an incentive price is not necessary or justified. The Commission has already addressed this issue in two prior tight formation orders, Order No. 235, Docket No: RM79-76-097 (New Mexico-8), issued June 4, 1982; and Order No. 244, Docket No. RM79-76-109 (New Mexico-12), issued August 4, 1982. The Commission stated in Order No. 244:

The issue in this docket is whether the recommended \* \* [formation meets the standards prescribed in § 271.703(c). Moreover, there are or can be gas producers in the recommended formation other than El Paso, which do not receive cost-of-service pricing for gas produced thereform Finally, the tight formation incentive price is a ceiling price, and as such there is no guarantee that a producer, including a pipeline, will be able to charge and collect that price.\*

This rationale is equally applicable in this case.

Based upon the above discussion, the Commission finds that the evidence submitted by New Mexico supports the assertion that the Dakota Producing Interval meets the guidelines contained in § 271.703(c)(2)(i). The Commission adopts the New Mexico recommendation.

This amendment shall become effective immediately. The Commission has found that the public interest dictates that new natural gas supplies be developed on an expedited basis, and, therefore, incentive prices should be made available as soon as possible. The need to make incentive prices

"Mimeo-at p. 2.

immediately available establishes good cause to waive the thirty-day publication period.

#### List of Subjects in 18 CFR Part 271

Natural gas, Incentive price, Tight formations.

(Department of Energy Organization Act, 42 U.S.C. 7101 *et seq.*; Natural Gas Policy Act of 1978, 15 U.S.C. 3301-3432: Administrative Procedure Act, 5 U.S.C. 553)

In consideration of the foregoing, Part 271 of Subchapter H. Chapter I. Code of Federal Regulations, is amended as set forth below, effective September 30, 1982.

By the Commission.

Kenneth F. Plumb, Action Secretary, Secretary, September 30, 1982.

网络属网络自然的现在分词

#### PART 271 [AMENDED]

Section 271.703 is amended by adding new paragraph (d)(110) to read as follows:

#### § 271.703 Tight formations.

(d) Designated tight formations. \* (110) The Dakota Producing Interval in New Mexico. RM79-76-103 (New Mexico-9). (i) Delineation of formation. The Dakota Producing Interval is found within the Basin-Dakota Gas Pool in the northwestern portion of the San Juan Basin near the Hogback Monocline. It is found in San hean County, in Township 31 North, Range 10 West, NMPM, Sections 1 through 38; Township 31 North Range 11 West, NMPM, Sections 1, 12, 13, 22 through 27 and 34, 35 and 36; Township 32 North, Range 10 West, NMPM. Sections 7 through 38; Township 32 North, Range 12 West, NMPM, Sections 7 through 27 and 34, 35 and 36; Township 32 North, Range 12 West, NMPM, Sections 7 through 24, 28 through 31; and Township 32 North, Range 13 West, NMPM, Sections 7 through 29 and 32 through 36.

(ii) Depth. The Dakota Producing Interval begins at the base of the Greenhorn Limestone and consists of the Graneros Formation, the Dakota Formation and the productive upper limit of the Morrison Formation. The average depth to the top of the Dakota Producing Interval is 6,753 feet. The gross thickness of the interval averages 400 feet.

[PR Dog. 82-27434 Filed 10-5-62; 245 am] B1\_LB42 CODE 6717-01-10

#### 18 CFR Part 271

[Docket No. RM79-76-080 (Texas-16); Order No. 263]

#### High-Cost Gas Produced From Tight Formations; Texas; Final Rule

AGENCY: Federal Energy Regulatory Commission, DOE. ACTION: Final rule.

Gilon, Final fule.

**SUMMARY:** The Federal Energy Regulatory Commission is authorized by section 107(c)(5) of the Natural Gas. Policy Act of 1978 to designate certain types of natural gas as high-cost gas where the Commission determines that the gas is produced under conditions which present extraordinary risks or costs. Under section 107(c)(5), the Commission issued a final regulation designating natural gas produced from tight formations as high-cost gas which may receive an incentive price (18 CFR 271.703). This rule established procedures for jurisdictional agencies to submit to the Commission recommendations of areas for designation as tight formations. This final order adopts the recommendation of the Railroad Commission of Texas that the Olmos Formation be designated as a tight formation under § 271.703(d). **EFFECTIVE DATE:** This rule is effective September 30, 1982.

FOR FURTHER INFORMATION CONTACT: Leslie Lawner, (202) 357–8511 or Walter Lawson, (202) 357–8556.

SUPPLEMENTARY INFORMATION:

The Commission hereby amends § 271.703(d) of its regulations to include the Olmos Formation in parts of Webb and Dimmit Counties, Texas as a designated tight formation eligible for incentive pricing under § 271.703. The amendment was proposed in a Notice of Proposed Rulemaking by the Director, Office of Pipeline and Producer Regulation, issued December 7, 1981 (46 FR 60467, December 10, 1981) 1 based on a recommendation by the Railroad Commission of Texas (Texas) in accordance with § 271.703, that the Olmos Formation be designated as a tight formation.

Evidence submitted by Texas<sup>2</sup> supports the assertion that the Olmos

<sup>\*</sup> The calculations for permeability and flow rates submitted by Texas are based on median values, rather than average values. However, using supplemental data supplied by Texas in response to a request from the Commission, the Commission has determined that the arithmetic average values for permeability and flow rates for the subject formation also satisfy the Commission's guidelines in § 271.703(c)(2).

<sup>&</sup>lt;sup>1</sup>Comments were invited on the proposed rule and two comments supporting the recommendation were received. No party requested a hearing and no hearing was held.

#### 18 C.P.R. Part 271

High-Cost Gas Produced from Tight Formations; Final Rule Docket No. RM79-76-103 (New Mexico - 9)

#### ORDER NO. 262

AGENCY : Federal Energy Regulatory Commission

ACTION : Final rule

FEDERAL

SUMMARY : The Federal Energy Regulatory Commission is authorized by section 107(c)(5) of the Natural Gas Policy Act of 1978 to designate certain types of natural gas as high-cost gas where the Commission determines that the gas is produced under conditions which present extraordinary risks or costs. Under section 107(c)(5), the Commission issued a final regulation designating natural gas produced from tight formations as high-cost gas which may receive an incentive price (18 C.P.R. § 271.703). This rule established procedures for jurisdictional agencies to submit to the Commission Tecommendations of areas for designation as tight formations. This final order adopts the recommendation of the State of New Mexico Energy and Minerals Department, Oil Conservation Division, that the Dakota Producing Interval be designated as a tight formation under § 271.703(d).

EFFECTIVE DATE : This rule is effective September 30, 1982.

FOR FURTHER INFORMATION CONTACT : Leslie Lawner, (202)357-8511 or Victor Zabel, (202) 357-8616.

DC-C-108

20 PERC 461.431

1/ No party requested a hearing and no hearing was held.

Docket No. RM79-76-103 - 2 -

to an infill drilling order, the commenters argue, indicates that certain areas within the recommended formation may be subject to exclusion from the tight formation designation under § 271.703(c)(2)(i)(D). Section 271.703(c)(2)(i)(D)

provides that:

If the formation or any portion thereof was authorized to be developed by infill drilling prior to the date of recommendation and the jurisdictional agency has information which in its judgment indicates that such formation or portion subject to infill drilling can be developed absent the incentiva price established in paragraph (a) of this section then the jurisdictional agency shall not include such formation or portion thereof in its recommendation.

Section 271.703(b)(6) defines infill drilling as any infiling in a substantially developed form tion or portion thereof, subject to well spacing or protation unit requirements which were amended by the jurisdictional agency after the formation or portion thereof was substantially developed, and which were adopted for the purpose of more effective and efficient drainage of the reservoirs in such formation. Therefore, if the recommended formation was substantially developed at the time that Order No. R-1670-V was issued, then such area should be excluded from the tight formation designation.

The recommended area was governed by special rules and regulations promulgated by New Mexico in Order No. R-1670-C, issued November 4, 1960. This order consolidated all Dakota Producing Interval production in San Juan and Rio Arriba Counties, created the Basin Dakota Gas Pool, and established 320 acre gas proration units. Order No. R-1670-V retained the 320 acre units, but allowed the drilling of an additional well on each unit. There are 304 drilling units contained in the

#### UNITED STATES OF AMERICA FEDERAL ENERGY REGULATORY COMMISSION

Before Commissioners: C. H. Butler III, Chairman; Georgiana Sheldon, J. David Hughes, A. G. Sousa and Oliver G. Richard III.

High-Cost Gas Produced ) from Tight Formations )

Docket No. RM79-76-103 (New Mexico - 9)

#### ORDER NO. 262

#### PINAL RULE

(Issued September 30, 1982)

The Commission hereby amends § 271.703(d) of its regulations to include the Dakota Producing Interval in San Juan County, New Mexico, as a designated tight formation eligible for incentive pricing under \$271.703. The amendment was proposed in a Notice of Proposed Rulemaking by the Director, Office of Pipeline and Producer Regulation, issued March 3, 1982 (47 Ped. Reg. 10241, March 10, 1982), <u>1</u>/ based on a recommendation by the State of New Mexico Energy and Minerals Department, Oil Conservation Division (New Mexico) in accordance with § 271.703, that the Dakota Producing Interval be designated as a tight formation.

The Commission received two comments in response to the Notice of Proposed Rulemaking in this docket, one jointly filed by Southern California Gas Company and Pacific Lighting Gas Supply Company (SoCal) and one from Pacific Gas and Electric Company (PG&E).

Both commenters noted that New Mexico Order No. R-1670-V, issued May 22, 1979, authorized infill drilling in the Basin Dakota Gas Pool. The fact that the recommended area is subject

and the second second second second second second second second second second second second second second second

Docket No. RM79-76-103 - 3 -

recommended area. Prior to the issuance of Order No. R-1670-V, wells had been completed on 23 of these units, representing 7.6% of the available drilling sites. The Commission therefore finds that the recommended area does not fall within the infill drilling exclusion because the area was not substantially developed at the time the infill drilling order was issued.

SoCal also raised specific questions concerning the recommendation. 2/ In Exhibit No. 6, the applicant before New Mexico presented pressure data for calculation of the permeability of the Patterson "B" well; however, a shut-in bottom hole pressure from a well 9,600 feet south of this well was used for this calculation. SoCal questions the accuracy of permeability figures based on data from more than one well. The Commission recognizes that it is an accepted procedure when working with formations of low permeability characteristics to use data from other wells, since the bottom hole pressure will not vary appreciably across the area, and the amount of time needed for the pressure to build back up in a recently drilled well is too long for practical measurement.

<sup>2/</sup> Socal notes that a transcript of the New Mexico proceeding was not in the Commission's files, and that this made it impossible for SoCal to correctly evaluate the data submitted in support of the recommendation. The Commission staff had requested a copy of the transcript from New Mexico, but did not receive it until after SoCal's comments were filed. There is no affirmative requirement that a jurisdictional agency submit a transcript with its recommendation. However, SoCal was informed of the receipt of the transcript, and had an opportunity to examine it. SoCal has not filed any additional comments since the transcript was received. Moreover, the Commission's review of the transcript indicates that it does not contain any type of data that was not included in the recommendation as initially received by the Commission.

#### Docket No. RM79-76-103 - 4 -

With respect to Exhibit No. 7, SoCal questioned the validity of using a calculated "shut-in bottom hole pressure at drathing radius" (which measures wellhead pressure) in determining <u>in situ</u> permesbility for the Southland Pierce No. 2 Well. The Commission finds that this is a standard petroleum engineering practice to calculate bottom hole pressure from a wellhead pressure by using a generally accepted formula.

Socal further questioned Exhibit No. 13, which gives cumulative oil production data for several wells in the area, but which gives no rate of oil production, in light of § 271.703(c)(2)(i)(C), which provides that no well drilled in the tight formation is expected to produce, before stimulation, more than five barrels of crude oil per day. In response to an inquiry by Commission staff, a letter was submitted by the applicant to New Mexico, dated July 23, 1982, in which it clarified the evidence in this exhibit, by stating that (1) oil and condensate production is not distinguished by the producer when reporting to New Mexico, (2) the production listed in the exhibit is post-stimulation condensate production and (3) there is no actual oil production from the wells listed in the exhibit.

Finally, PG&E maintained that since El Paso Natural Gas Company, which has an extensive infill drilling program in the San Juan Basin, is able to price gas produced through this program on a cost-of-service basis, it is guaranteed full recovery of its costs and expenses, plus a reasonable rate of return. PG&E argues therefore that an incentive price is not necessary or justified. The Commission has already addressed this issue Docket No. RM79-76-103 - 5 -

in two prior tight formation orders, Order No. 235, Docket No. RM79-76-097 (New Mexico - 8), issued June 4, 1982, and Order No. 244, Docket No. RM79-76-109 (New Mexico - 12), issued August 4, 1982. The Commission stated, in Order No. 244:

The issue in this docket is whether the recommended . . . (f]ormation meets the standards prescribed in § 271.703(c). Moreover, there are or Can be gas producers in the recommended formation other than El Paso, which do not receive cost-of-service pricing for gas produced therefrom. Pinally, the tight formation incentive price is a <u>ceiling</u> price, and as such there is no guarantee that a producer, including a pipeline, will be able to charge and collect that price. 3/

This rationale is equally applicable in this case. Based upon the above discussion, the Commission finds that the evidence submitted by New Mexico supports the assertion that the Dakota Producing Interval meets the guidelines contained in \$ 271.703(c)(2)(i). The Commission adopts the New Mexico recommendation.

This amendment shall become effective immediately. The Commission has found that the public interest dictates that new natural gas supplies be developed on an expedited basis, and, therefore, incentive prices should be made available as soon as possible. The need to make incentive prices immediately available establishes good cause to waive the thirty-day publication period.

3/ Mimeo at p. 2.

Docket No. RM79-76-103 - 6 -List of Subjects in 18 C.P.R. Part 271:

Natural gas, incentive price, Tight formations.

(Department of Energy Organization Act, 42 U.S.C. 55 7101 et seq., Natural Gas Policy Act of 1978, 15 U.S.C. 55 3301 - 3432; Administrative Procedure Act, 5 U.S.C. 5 553.)

In consideration of the foregoing, Part 271 of Subchapter H, Chapter I, <u>Code of Pedeal Regulations</u>, is

amended as set forth below, effective September 30, 1982. By the Commission.

(SEAL)

Kennett F. Klunt Kenneth F. Plumb, Secretary.

Docket No. RM79-76-103 - 7 -

Section 271.703(d) is revised by adding new subparagraph (110) to read as follows:

\$ 271.703 Tight formations.

\* \* \*

(d) Designated tight formations.

(110) <u>The Dakota Producing Interval in New Mexico</u>. RM79-76-103 (New Mexico - 9).

(1) <u>Delineation of formation</u>. The Dakota Producing Interval is found within the Basin-Dakota Gas Pool in the northwestern portion of the San Juan Basin near the Hogback Monocline. It is found in San Juan County, in Township 31 North, Range 10 West, NMPM, Sections 1 through 36; Township 31 North Range 11 West, NMPM, Sections 1, 12, 13, 22 through 27 and 34, 35 and 36; Township 32 North, Range 10 West, NMPM, Sections 7 through 36; Township 32 North, Range 11 West, NMPM, Sections 7 through 27 and 34, 35 and 36; Township 32 North, Range 12 West, NMPM, Sections 7 through 24, 28 through 31; and Township 32 North, range 13 West, NMPM, Sections 7 through 29 and 32 through 36.

(11) <u>Depth</u>. The Dakota Producing Interval begins at the base of the Greenhorn Limestone and consists of the Graneros Formation, the Dakota Formation and the productive upper limit of the Morrison Formation. The average depth to the top of the Dakota Producing Interval is 6,753 feet. The gross thickness of the interval averages 400 feet.

### Regulations

(ii) Depth. The producing interval of the Dakota-Lakota Formation is approximately 175 to 185 feet thick, and begins at the base of the Skull Creek Formation and extends to the top of the Morrison Formation. The average depth to the top of the Dakota-Lakota Formation is 9,100 feet.

(109) Codell Formation in Colorado. RM79-76-122 (Colorado-25).

(i) Delineation of formation. The Codell Formation underlies portions of Adams, Boulder, Jefferson, Larimer and Weld Counties, Colorado, and is located on the western flank of the Denver-Julesberg Basin a few miles north of Denver, Colorado. The Codell Formation is found in the following areas: Township 1 South, Ranges 64 through 70 West; Township 2 South, Ranges 69 and 70 West; Township 1 North, Ranges 64 through 70 West; Township 2 North, Ranges 64 through 69 West, all sections, Range 70 West, Sections 1 through 5, and 8 through 36; Township 3 North, Ranges 64 through 69 West, all sections, Range 70 West, Sections 1, 12, 13, 21 through 28, and 33 through 36; Township 4 North, Ranges 64 through 69 West; Township 5 North, Ranges 64 through 68 West, all sections, Range 69 West, Sections 1 through 4, 9 through 16, 20 through 29, and 31 through 36, Township 6 North, Ranges 64 through 68, all sections, Range 69 West, Sections 1 through 16, 21 through 28, and 33 through 36.

(ii) Depth. The Codell Formation ranges in depth from 3,000 to 8,000 feet, and is generally found at a depth of 7,000 feet, and averages 15 feet in thickness.

(110) The Dakota Producing Interval in New Mexico. RM79-76-103 (New Mexico—9). (i) Delineation of formation. The Dakota Producing Interval is found within the Basin-Dakota Gas Pool in the northwestern portion of the San Juan Basin near the Hogback Monocline. It is found in San Juan County, in Township 31 North, Range 10 West, NMPM, Sections 1 through 36; Township 31 North Range 11 West, NMPM, Sections, 1, 12, 13, 22 through 27 and 34, 35 and 36; Township 32 North, Range 10 West, NMPM, Sections 7 through 36; Township 32 North, Range 11 West, NMPM, Sections 7 through 27 and 34, 35 and 36; Township 32 North, Range 12 West, NMPM, Sections 7 through 24, 28 through 31; and Township 32 North, Range 13 WEST, NMPM, Sections 7 through 29 and 32 through 36.

(ii) Depth. The Dakota Producing Interval begins at the base of the Greenhorn Limestone and consists of the Graneros Formation, the Dakota Formation and the productive upper limit of the Morrison Formation. The average depth to the top of the Dakota Producing Interval is 6,753 feet. The gross thickness of the interval averages 400 feet.

(111) The Olmos Formation in Texas. RM79-76 (Texas-16)-(i) Dimmit and Webb Counties-(A) Delineation of formation. The Olmos Formation is located in the northwest portion of Webb County and the southern portion of Dimmit County in Texas. The Formation includes all of that portion of Dimmit County extending approximately 14 miles north of the boundary of Webb County, and all of that portion of northwest Webb County west of a north-south line extending south from a point approximately 1.5 miles east of the southwest corner of La Salle County, and north of an east-

Federal Energy Regulatory Commission

§ 271.703 ¶ 24,173