

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

Bill Richardson Governor Joanna Prukop Cabinet Secretary Lori Wrotenbery Director Oil Conservation Division

April 29, 2003

Office of the Secretary Federal Energy Regulatory Commission 888 First Street, N.E. Washington, DC 20426 Attn: Marilyn Rand

RE: BP America Production Company Hubbard A No. 1E Jacquez Gas Com F No. 1 Lopez Gas Com No. 1E Schneider Gas Com C No. 1 Sullivan Gas Com No. 1A

> Dugan Production Corporation Garret Federal Com No. 1E (Basin Dakota) Mae Gale Com No. 1E Rainbow Seeker No. 1 Sly Slav No. 3

Ms. Rand:

Enclosed are your copies of the approved NGPA applications for the above applicants.

Sincerely,

Valdes

Kathy Valdes

Enclosures

		Portir C+132 Revised 10/1/86
	State of New Mexico	
	ENERGY AND MINERALS DEPARTMENT	
	OIL CONSERVATION DIVISION	-03-007
	1220 S. St. Francis Dr. 2010 Packeto St.	
FOR DIVISION	Santa Fe, NM 87505 - 5472	5A. Indicate Type of Lease
USE ONLY:	APPLICATION FOR WELLHEAD PRICE CEILING CATEGORY DETERMINATION	STATE FEE X
APPROPIATE FILIN	G FEE(S) ENCLOSED? YES NO FILING FEE(S) -	5. State Oil & Gas Lease No.
DATE COMPLETE A	APPLICATION FILED March 10, 2003 Effective October 1, 1986,	
1		
DATE DETERMINA	TION MADE <u>April 28, 2003</u> . a non-refundable filing fee of \$25.00 per category for each	
WAS APPLICATION	CONTESTED? YES NO application is mandatory. (Rul	e
NAME(S) OF INTER	2, Order No. R-5878-8-3	8. Farm or Lease Name
MILINE(S) OF MITER	VENORS(S), IF ANY: na	Jacquez Gas Com F
2. Name of Operator		9. Well No.
BP America Production	Company	1
3. Address of Operator		10. Field and Pool, or Wildcat
P.O. Box 3092	louston. TX 77253	Basin Dakota
	NIT LETTER LOCATED FEET FROM THE North LINE	12. County
AND 1450	FEET FROM THE West LINE OF SEC. 34 TWS. 32N RGE 10W NMPM	San Juan
11. Name and Address of Purch	aser(6)	
El Paso Field Service	S	
C	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	30-045-25884
3	. All applications must contain:	

- a. C-101 APPLICATION FOR PERMIT TO DRILL, DEEPEN OR PLUG BACK
- b. C-105 WELL COMPLETION OR RECOMPLETION REPORT
- c. DIRECTIONAL DRILLING SURVEY, IF REQUIRED UNDER RULE 111
- d. AFFIDAVITS OF MAILING OR DELIVERY

In addition to	the above, all applications must contain the items required by the applicable rule
of the Division's	"Special 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

X 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
Mary Corley	Disapproved
NAME OF APPLICANT (TYPE OR PRINT)	The information contained herein includes all of the information required
- Mary Orley	to be filed by the applicant under Subpart 8 of Part 274 of the FERC
SIGNATURE OF APPLICANT Title Senior Regulatory Analyst	regulation
Date February 13, 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.

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1

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

B. FOR ALL APPLICATIONS FOR DETERMINATION PROVIDE THE FOLLOWING:

	1.	Well Name and No.* Jacquez Gas Com F # 1
	2.	Completed in (Name of Reservoir) * Dakota
	3.	Field * Basin Dakota
	4.	County * San Juan
	5.	State * New Mexico
	<u>6.</u>	API Well No. (14 digits maximum. If not assigned, leave blank.) 30-045-26195 30-045-25 884
	9.	Measured Depth of the Completed Interval (in feet) TOP 7166' BASE 7339'
		PLICANT'S MAILING ADDRESS AND THE IDENTITY OF THE PERSON WHO IS ONSIBLE FOR APPLICATION:
	1.	Applicant's Name * BP America Production Company
	2.	Street * 501 Westlake Park BLVD
	3.	City * Houston
	4.	State* Texas 5. Zip Code 77079
	6.	Name of Person Responsible * Mary Corley
	7	Title of Such Person * Senior Regulatory Analyst
	8	Signature Miller and Phone No. (281) 366 - 4491
;	ŧ	SIGNIFIES THAT LINE 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 Jacquez Gas Com F well # 1, API No. 30-045-26195 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 Analyst. Subscribed in my presence and duly sworn to before me, this 13 day of February, 2003.

Tabura Kong Gristera Notary Public Patricia Bogg Dislena Notary Public, State of Texas My Commission Expires September 20, 2005

My Commission Expires:



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

February 12, 2003

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

MAR 1 0 200 Charles Charl

Application For Well Category Determination NGPA Section 107 - Dakota Jacquez Gas Com F Well No. 1 30-045-25884 San Juan County, New Mexico

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 U Sr. Regulatory Analyst

Enclosures

Cc: Working Interest Owners

1999 - 199										
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JISTRIBUTION	4									n C-105 Ised 11-1-M
SANTA FE		NEW	HEXICO (NSERVATI		•		Sa. India	onte Type of Lease
FILE	Y	VELL COMPL							State	
U.S.G.S.		CLEE COMPE				ON		AND LOG	S. State	Oll & Gas Lease No.
LAND OFFICE		×								
OPERATOR									$\Pi\Pi$	
19. TYPE OF WELL				·					$\overline{(111)}$	
	OIL	GA3	()						7. Unit /	Agreement Name
b. TYPE OF COMPLE	OIL WEL	well well	X	DRY	OTHER			·	P Form	or Lease Nume
NEW X WC				VR.						
2. Name of Operator			<u> </u>	SVH. L	OTHER	_			9. Well 1	ez Gas Com "F"
	luction Comp	any							1	
J. Address of Operator									10. Field	i and Pool, or Wildcat
4. Location of Well	t Drive, Fa	rmington,	New Mex	íco	87401				Basin	Dakota
•. Location of well									IIIII	
C	1.1	20							/////	
UNIT LETTER C	LISTATED LI	20 FEET F	ROM THE	North	LINE AN	2	450	FEET FROM	12, Coun	
THE West LINE OF	34	32N	E. 10W			())	HAHH	//////		
15, Date Spudded	16. Date T.D. Re	eached 17. Date	Compl. (Re	nMPh ady to	Prod.) 13.	Eleve	ations (DF.	RKB. RT. G	San Ju	19. Elev. Cashinghead
· 5-5-84	5-31-84		7-18-84				3' KB			5885' GR
20. Total Depth		Back T.D.	22.1	f Multip Iany	le Compl., H	ow	23. Intervo	ls , Rotary	Tools	Cable Tools
7426'	-	80'	1	S	ingle		Drifted)	
24. Producing Intervci(s), of this completi	on - Top, Botton	n, Name							25. Was Directional Survey Made
7339'-7166	1									
26. Type Electric and (YES ·
	from TD to	6000': FDC-	-CNL fro	om TD	to 4200				27	. Was Well Cored NO
28.					ort all string		in well)			
CASING SIZE	WEIGHT LB./				ESIZE	1		TING RECO	RÓ	AMOUNT PULLED
11-3/4"	42#, H-40	323'		14-3	/4"	53	l cu. f	t. Class	B Nea	at & 2% C_Cl2
8-5/8"	24#, K-55	3125'		10-5	/8''	107	8 cu. f	t. Class	B 50:	50 poz, 6% gel,
						2#	med tuf	plug &	tailed	l in w/ 118 cu. ft.
29,		NER RECORD				IC1a				on next sheet)
SIZE	тор	BOTTOM	CACKE OF				30.		JBING RE	CORD
		BOLLOW	SACKS CE	MENT	SCREEN		2-3/8		PTH SET	PACKER SET
							2-3/0	- /3	29'	
31. Perforation Record			<u></u>	1	32.	ACIO	D, SHOT, FI	RACTURE, C	EMENT	SQUEEZE, ETC.
7194'-7166	', 7222'-72	17', 7262'-	-7255',		DEPTH			AMOU	NT AND H	IND MATERIAL USED
/285'-/2/9	', 7316'-730	01', 7339'-	-7320 ' ,		7166-7	339	1	2% KCL	2800#/	400 BBL, hi temp.
2 jspr, .3	8", total of	t 160 holes	5.					stab. 1	600#,	gelling agent
		•								53 gal, breaker led on next sheet)
:3.				PROD	UCTION			1/5/ (0		led off flext sheet)
Oate First Production	Froduc	tion Method (Flou	ving, gas lij			id typ	ie pumpj		Well Sta	tus (Prod. or Shut-in)
8-5-84	Flo	owing							Shut	-in
Cate of Test	Hours Tested	Choke Size	Prod'n. F Test Fer		OII - BEL	1	Gas - MCF	Water	- Bbl.	Gas-Ol! Ratio
8-6-84	3	.75"	1				143			
By Tubing Fress. 87 psig	Casing Freesure 437 psig	Calculated 24 Hour Hate	- 011 – 85 	1.	Gas = 1		Wa	ter - Bbl.	C	Ail Gravity - Airl (Corr.)
Disposition of Gas (, vented, etc.)	1					T	Witnessed	Bý
To be sold									Barne	
. List of Attachments			· ·					<u>1</u>		
None										
. I hereby certify that	the information sh	own on both side:	s of this for	m is tru	e and comple	te w	the best of	ny knowledg	e and beli	ef.
Vng	inal Signed By D.D. Lawson									
SIGNED			_ TITL	E Di	strict A	dm.	Supervi	sor	DATE _8	-2]84

Submit 3 Copies			ate of New Mex			Form C-103 Revised 1-1-	
to Appropriate District Office	En	ergy, Minerals a	and Natural Rea	sources Department	,	Revised 1-1-	·87
DISTRICT I P.O. Box 1980, Hobb	NNS ERVE TO	OIL	ERVATION P.O.Box 2088	DIVISION	WELL APPNO.		
DISTRICT II P.O. Drewer DD, Arte	sia. NM 88210	Santa Fe,	New Mexico 8	7504-2088	5. Indicate Type	3004525844	
DISTRICT III	LIHA 3 H	M 9 54				STATE	FEE X
1000 Rio Brazos Rd.,	Aztec, NM 8/410				6. State Oil & G	TAS LEASE NO.	
(DO NOT USE THIS	FORM FOR PRO	ICES AND RE OPOSALS TO DRI VOIR. USE "APP -101) FOR SUCH	ILL OR TO DEEP	EN OR PLUG BACK TO A		or Unit Agreement Nam	c
1. Type of Well:	1				J.	aquéz Gas Com /F/	
OIL WELL	GAS WELL	OTHER	Attention:		8. Well No.	<u>a da anterio</u>	
2. Name of Operator Amoco Production	Company			l Hadlock	0. Well 110.	1	
3. Address of Operato P.O. Box 800	Denver	Colorado	80201		9. Pool name or	Wildcat Basin Dakota	
4. Well Location Unit Letter	C . 112	20 Feet From The	e North	Line and	1450 Feet From	m The West	Line
Section	34	Township	32N I	Range 10W	NMPM	San Juan	County
			214	her DF, RKB, RT, GR, etc.)		
				5898' KB	2		
11. ERFORM REMEDIAL EMPORARILY ABAN		PROPRIATE BOX ENTION TO: PLUG AND AB CHANGE PLAN		Nature of Notice, S REMEDIAL WORK COMMENCE DRILLIN			
	DTICE OF INT	PLUG AND AB		RÊMEDIAL WORK	NG OPNS.	EPORT OF: ALTERING CASING PLUG AND ABANDO	
ERFORM REMEDIAL EMPORARILY ABAN ULL OR ALTER CAS OTHER:	DTICE OF INT	ENTION TO: PLUG AND AB CHANGE PLAN	ANDON	S RÉMEDIAL WORK COMMENCE DRILLIN CASING TEST AND	SUBSEQUENT R	EPORT OF: ALTERING CASING PLUG AND ABANDO ad repair	×
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ERFORM REMEDIAL EMPORARILY ABAN PULL OR ALTER CAS OTHER:	DTICE OF INT WORK DON DON DON ING DON DON Or Completed Ope 1103. dd.	PLUG AND AB CHANGE PLAN	ANDON	S RÉMEDIAL WORK COMMENCE DRILLIN CASING TEST AND OTHER: ails, and give pertinent date RR E C APR 2 OIL CC DIS my knowledge and belief. Busines	SUBSEQUENT R	EPORT OF: ALTERING CASING PLUG AND ABANDO ad repair I date of starting any pro- date of starting any pro- DATE 04-21- TELEPHONE NO. (2)	X

Bradenhead pressure- 60 psi. Bled off well. PMP 30 BBLS 2% KCL water down TBG. TIH and tag fill @ 7318'. TOH w/ 224 joints. Bled off gas. PMP 20 BBLS 2% KCL to kill well. TIH and set 4-1/2" ret. plug @ 6922'. PMP 78 BBLS to fill & circ. hole. Pressure test plug and CSG to 1000 psi for 10 minutes, ok. TOH. TIH & set 8-5/8" plug @ 1310'. Fill hole & circulate. Pressure test CSG to 500 psi. Ok. Ban CBL-VDL-GB-CCL from 1280' to surface. 0-550' no CMT. 550'-630'

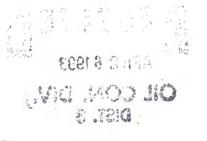
Ran CBL-VDL-GR-CCL from 1280' to surface. 0-550' no CMT, 550'-630' 60-80% bond, 630'-1120' excellent bond. TIH w/ perf gun. Shot 2 holes @ 450'. PMP 52 BBLS w/ dye to obtain circulation. Circ. @ 4 BPM, 1000 psi. PMP 10 BBLS 2% KCL water ahead of CMT. Mix & pump 225 sx CMT (49

BELS slurry). 15.6 PPG. APR 2 BPM. Obtained 11 BBLS good CMT returns up bradenhead. Install 8 5/8" wooden plug and displace to 250', Rig down Halliburton. TIH and Tag CMT @ 238'. Drill CMT from 238' to 460'. Circ hole clean. Pressure test CSG to 500 psi. Bled to 400 in 10 minutes. Repressure to 500, bled down to 450 and stabilized. TIH and release 8-5/8" plug.

Ran 39 joints 4-1/2" CSG. Pressure tested to 1000 psi. Ok. Inject plastic into surface CSG spool & pressure tested to 1000 psi. Ok. TIH and tagafill (@ 7318'. Clean out to 7358". TOH. TIH w/ TBG & landed @ 7316'. Swab well and rig down. Final bradenhead pressure 0 psi.

If there are any questions, please contact Ed Hadlock @ (303) 830-4982.

, this was



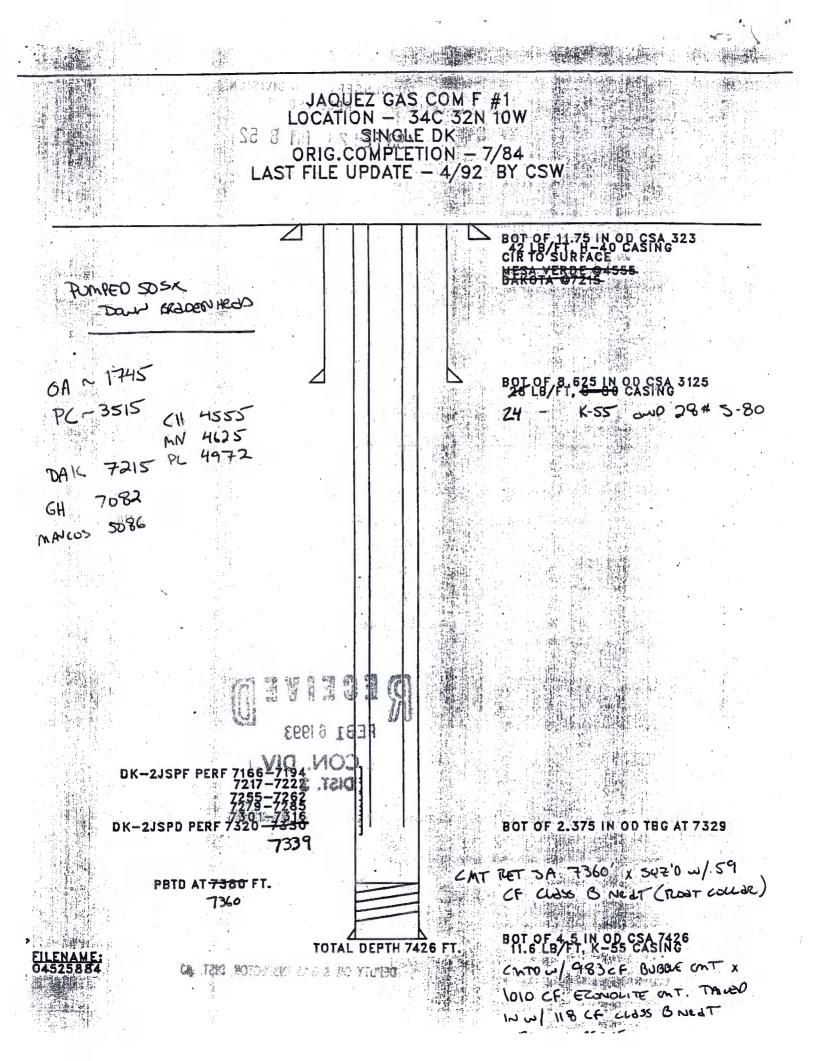
그 가지는 것이 가지 않는 못 못했다.

APR 35 NYA

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Adda State

State of New México Submit 3 Copies to Appropriate Energy, Minerals and Natural Resources Department	Form C-103 Revised 1-1-89
District Office DISTRICT I P:O: Box 1980, Hobbs, NM 88240 DISTRICT II P:O. Drawer DD, Artesia, NM 88210 DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 OIL CONSERVATION DIVISION P:O.Box 2088 @IL CONSERVATION P:O.Box 2088 @IL CONSERVATION	5. Indicate Type of Lease
SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	7. Lease Name or Unit Agreement Name
1. Type of Well: OIL OTHER	Jaquez Gas Com /F/
2. Name of Operator Amoco Production Company Attn: Ed Hadlock	8. Well No. 1
3. Address of Operator P.O. Box 800, Denver, CO. 80201	9. Pool name or Wildcat Basin Dakota
Unit Letter : Feet From The Line and Section 3.4 Township 32N Range 10W 10. Elevation (Show whether DF, RKB_RT, GR, etc.) 5898 RB 10K 11. Check Appropriate Box to Indicate Nature of Notice, Re	ALTERING CASING
RECENT FEB1 6199 CON. DIST. 3 If there are any questions please contact Ed	DIV.
4982. I hereby certify that the information above is true and complete to the best of my knowledge and belief.	
in the Alt is a filled and the second s	Analyst DATE 2/11/93
TYPE OR PRINT NAME Ed Hadlock	TELEPHONE NO.
(This space for State Use)	
APPROVED BY SLOOPDO Dourhusst TITLE DEPUTY OIL & GAS	INSPECTOR, DIST. #3 DATE 2/110/93
CONDITIONS OF APPROVAL, IF ANY:	



2 10:20 AMOCO SAN JUAN

LOCATION:

PUEZ CEF# WELL

Contact Federal or State agency prior to starting repair work. 1. Catch gas and pr water sample off of bradenhead and caring, and 2. have analyzed.

HC-B2N

Install and, or test anchors.

MAL M. A. INTE RMEDI ATE M.I.R.U.S.U. check and record tubing / casing and bradenhead pressures.

5. Blow well down, kill well if necessary with 2% KCL.

6. Nipple down well head, nipple up and pressure test B.O.P.'s.

7. Trip in the hole and tag P.B.T.D., check for fill, trip and tally out of hole with tubing checking condition of tubing.

8. Trip in the hole with bit and scraper to the top to the perforations. A seating nipple and standing valve may be run in order to pressure test the tubing

9. Trip in the hole with R.B.P. and PKR. set R.B.P. 50-100 ft. above perforations. Trip out of hole one joint and set PKR. and pressure test R.B.P. to 1500 psi. Release PKR. and pressure test CBG. to 1000 psi. 1500 PS 10 Trip out of hole isolating leak in casing. NOTE: Once leak is

located contact SANDI BRAUN in Denver (303-830-5245). If no leak is found, spot sand on R.B.P. and trip out of hole with PKR.

11. Determine from well file and history it a C/B.L/ heads to be run from the top of R.B.P. to bottom of intermediate casing shoe. If this is needed run C.B.L. under 1000 pai, and report results to Denver.

12. Bleed off any intermediate casing pressure and check for flow, fill annulus with 2% KCL. water. Nipple down B.O.P.'s and tubing head, spear casing and remove slips, nipple up B.O.P.'s.

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13. Run freepoint and back off casing above intermediate casing shoe. Trip out of hole laying down and checking condition of casing.

14. Trip in the hole with bit and scraper to top of casing back off, circulate hole clean and trip out with scraper.

15. Trip in the hole with R.B.P. and PKR. and set R.B.P. above casing backoff, trip out of hole one joint and set PKR. and pressure test R.B.P. TO 1000^{\pm} , Pressure test B.B.P. TO 1000^{\pm} .

16. Release packer and trip out of hole isolating leak in casing. NOTE: IF this can not be accomplished contact when Bray in Denver (303-830-5245). If not loak is found, performed output and circulate canont to surface.

17. If a leak is found, release PKR. and spot sand on R.B.P. and trip out of hole.

IF NOLENE ISTOUND 18. Run, if necessary a C.B.L. & C.C.L. A determine cement top on the intermediate casing. Run FIRST Plass with No pressure, Run 2ND pass UNDER 1000 #.

19. Perforate casing, if necessary with 4JSPF. and circulate dye to detarmine cement volume. Depending on the depth of the hole and circulating pressure, a PKR. or a cement retainer may be needed.

20. Mix and pump sufficient cement (class B or equivalent with two hour setting time) to surface. Shut bradenhead valve and attempt to obtain a squeeze pressure and W.O.C.

21. Trip in the hole with bit and scraper and drill out cement and pressure test casing. Re-squeeze leaks if necessary until a desirable squeeze pressure can be obtained.

22. Trip in the hole with retrieving head for R.B.P., circulate sand off of R.B.P. and trip out of hole with plug.

23. Trip in the hole with casing and tag casing backoff. Circulate the top of the back off clean with 23 KCL. water with or without PKR. fluid (depending if production casing is to be cemented to isolate lower production zones). This will be determined from previous CBL. run. The back onto production casing and pressure test dating.

24. Nipple down B.O.P.'s and tubing head, and set slips and make cut off. Install tubing head and B.O.P.'s and pressure test. 25. Trip in the hole with retrieving head for R.B.P. circulate sand off of R.B.P. with 2% KCL and trip out of hole with plug.

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26. Trip in hole with a sawtooth collar and or bailer and clean out to P.B.T.D. and trip out of hole.

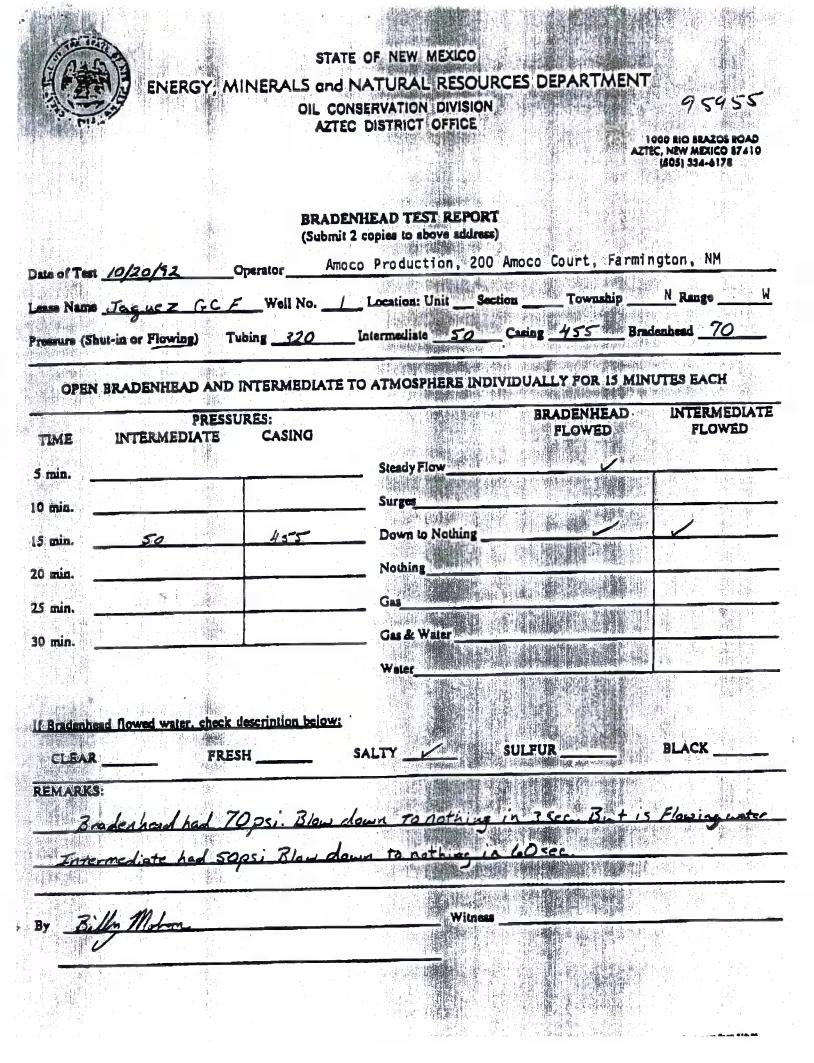
P.5/8

27. Trip in the hole with the production string (1/2 mule shoe on bottom and a seating nipple one joint off bottom), land tubing arr H339" Nipple down B.O.P.'s, nipple up well head.

28. Swab well in and put well on production.

29. Rig down move off service unit.

92 10:21 AMOCO SAN JUAN



Submit 5 Copies Appropriate District Office <u>DISTRICT 1</u> P.O. Box 1980, Hobbs, NM 88240 <u>DISTRICT II</u> P.O. Drawer DD, Artesia, NM 88210 <u>DISTRICT III</u> 1000 Rio Brazos Rd., Aztec, NM 87410 I. Operator AMOCO PRODUCTION COMPAI Address P.O. BOX 800, DENVER, 0		DIL C Sar EST FC O TRA	linerals a ONSE Inta Fe, N OF ALLS NSPOF	nd Matu RVA P.O. Bo Iew Me OWAB	w Mexico ral Resource TION D x 2088 xico 8750 LE AND A AND NAT	4-2088	OPER RES	CE VEI	10 28		-1-89 uctions
Reason(6) for Filing (Check proper box) New Well		Change in	Transporte	r of:	Othe	r (Please e	plain)				
Recompletion	Oil		Dry Gas								
Change in Operator	Casinghead		Condensat	e [X							
and address of previous operator		SF									
Lease Name JAQUEZ GAS COM F		Well No. 1	Pool Nam BASIN	e, locludir I DAKO	ig Formation TA (PROF	ATED (AS)	Kind of State, F	Lease ederal of Feb	Lei	ise No.
Location Unit LetterC	. :1	120	Feet From	The	FNL Line	and	1450	Feel	From The	FWL	Line
Section 34 Township	, 32N	ſ	Range	10W	, NN	1PM,		SAN	JUAN		County
III. DESIGNATION OF TRAN	SPORTE	R OF O	ente		Address (Giw		-		opy of this form		
MERIDIAN OIL INC. Name of Authorized Transporter of Casing	head Gas		or Dry Ga	• X					FARMING		
EI. PASO NATURAL GAS CO If well produces oil or liquids, give location of tanks.		Sec.	Twp.	Rge.	P.O. BO Is gas actually			PASO When 7	<u>TX 799</u>	978	~
If this production is commingled with that f IV. COMPLETION DATA	from any othe										
Designate Type of Completion	- (X)	Oil Well	Gai	s Well	New Well	Workove	r De	æpen	Plug Back S	ame Res'v	Diff Res'v
Date Spudded	Date Comp	ol. Ready to	Prod.		Total Depth				Р.В.Т.D.		
Elevations (DF, RKB, RT, GR, etc.)	Name of Pr	roducing Fe	ormation		Top Oil/Gas	ay			Tubing Depth		
Perforations	1								Depth Casing	Shoe	
					CEMENTI						
HOLE SIZE	CAS	SING & T	UBING SIZ	2E		DEPTHS	SET		SA	ACKS CEMI	ENT
· · · · · · · · · · · · · · · · · · ·											
V. TEST DATA AND REQUES OIL WELL (Test must be after to Date First New Oil Run To Tank	ST FOR A recovery of to Date of Te	otal volume	ABLE of load oil	and must	be equal to or Producing M	exceed top ethod (Flor	allowabl v, pwnp, g	e for this as lift, e	depth or be fo	r full 24 hou	rs.)
Length of Test	Tubing Pre	essure			Casing Press	ure	ſ	DE	Rok Size	WEF	3
Actual Prod. During Test	Oil - Bbls.				Water - Bbis		ſ	Ú	Gas- MCF		IJ
GAS WELL											
Actual Prod. Test - MCF/D	Length of	Test			Bbis. Conde	nsate/MMC	.r		CON.C	End.Arc	
Testing Method (pitot, back pr.)	Tubing Pr	essure (Shi	ut-in)		Casing Press	ure (Shut-i	n)		Choke Size		
VI. OPERATOR CERTIFIC I hereby certify that the rules and regu Division have been complied with and is true and complete to the best of my Signature Doug W. Whaley, Sta	lations of the 1 that the info knowledge a	e Oil Conso ormation gi and belief.	perviso		Date By_	e Appro	oved	<u>JN</u>	ATION E 2 1990	/	N
Printed Name <u>June 25, 1990</u> Date		<u>303</u> Te	Title -830-4 dephone No	2 <u>80</u>	Title)					and the state

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.
 Compute Form C 104 must be filed for each noal in multiply completed wells.

EL PASO NATURAL GAS COMPANY POST OFFICE BOX 990 FARMINGTON, NEW MEXICO

NOTICE OF GAS CONNECTION

DATE NOVEMBER 25, 1986

THIS IS TO NOTIFY THE OIL CONSERVATION COMMISSION THAT CONNECTION FOR PURCHASE OF

GAS FROM <u>AMOCO PRODUCTION</u>	JAQUEZ GAS COM F #1
Operator	Well Name
95-955-01 40791-01 Meter Code Site Code	<u>C 34-32-10</u> Well Unit S-T-R
BASIN DAKOTA	EL PASO NATURAL GAS
Pool	Name of Purchaser
WAS MADE ON <u>OCTOBER 6, 1986</u> ,	FIRST DELIVERY NOVEMBER 6, 1986
Date	Date
AOF	

CHOKE 1146

EL PASO NATURAL GAS	
Purchaser *	0
- Shin Within	2.2.5
Representative	

Clerk, Technical Support PECEIVE DECO81986 OIL CON. DIV. Title

CC: OPERATOR

OLL CONSERVATION COMMISSION (2) PRODUCTION CONTROL - El Paso LEASE DEVELOPMENT - El Paso CONTRACT ADMINISTRATION - El Paso FILE

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STATE OF NEW MEXICO			
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	CONSERV	ATION DEVESTO	Revised 10-01-78 Formar 06-01-83
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U.8.014. 5	ANTA FE, NE	WMEXICO 87501	
TRANSPORTER DIL			
OPERATOR		R ALLOWABLE	
AUTHORIZ	ATION TO TRANS	PORT OIL AND NATUR	AL GAS
Amoco Production Company			
501 Airport Drive Farmington, N	M 87401		
Reason(s) for filing (Check proper box) New Weil Change in T	ransoorter of:	Other (Please o	explain)
Recompletion Oil		ry. Gan	-4
Change in Ownership Casingh	need Gas 🛛 📿 C	ondensate	
change of ownership give name			
id address of previous owner			
. DESCRIPTION OF WELL AND LEASE			
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Jaquiz Gas Com F 1	Basin Dakota	5	State, Federal or Fee Free
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Unit Letter C: 1120 Feet From	The North Lin	and 1450.	Feet From The West
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L DESIGNATION OF TRANSPORTER OF OU			
ame at Authorized Transporter of Cil or Cand Permian Corp.	ensate X	P. O. Box 1702	which approved copy of this form is to be sent; Farmington, NM 87499
ame of Authorized Transparier of Casinghead Gas	or Dry Gas X		which approved copy of this form is to be sent / Farmington, NM 87401
El Paso Natural Gas Company	Twp. Rge.	P. O. Box 990	
iveligroduces oil or liquida; ive location of tanks.			
this production is commingled with that from any o	other lease or pool,	give commingling order n	umber
OTE: Complete Parts IV and V on reverse side	if necessary.		
CERTIFICATE OF COMPLIANCE			NSERVATION DIVISION
	Division have		IAN 25 1985
ereby certify that the rules and regulations of the Oil Conse on complied with and that the information given is true and c		APPROVED	
knowledge and belief.		BY	ales tholson
Oxol		TITLE DEPL	JTY OIL & GAS INSPECTOR, DIST. #3
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Admin. Supervisor	SIMP		Lin accordance with AULY 111. In form must be filled out completely for ai
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(Date) 0/2 0/2	<u>1985</u>		tions I. II. III, and VI for changes of ow in transporter, or other such change of condit
0	A/	Separate Forms (2-104 must be filed for each pool in mult
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	L.Y.		· · · · · · · · · · · · · · · · · · ·

NEW MEXICO OIL CONSERVATION COMMISSION MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

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STATE OF NEW MEXICO			
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	OIL CONSERVA	TION DIVISION	Form C-104 Revised 10-01-78 Format-06-01-83 Page 1
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ereby certify that the rules and regulations of the Oil Conservation Division have encomplied with and that the information given is true and complete to the best of aknowledge and belief.

an

(Signature)

Adm. Supervisor

8-21-84

(Date)

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TIT				SUPERVISOR	DISTRICT #	63
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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 tosts taken on the well in accordance with RULS 111.

All sections of this form must be filled out completely for allowshie on new and recompleted wells.

Fill out only Sections I. II. III. and VI for changes of owner, well-name or number, or transporter, or other such change of condition. Separate Forms C-104 must be filed for each pool in multiply

completed wells.

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COMPLETION DATA			
Designate Type of Complet	Δ. · · · · · · · · · · · · · · · · · · ·	New-Well Workover Deepen	Plug Book Some Res'v. Diff. Res'v.
	Date CompL Ready to Prod. 7-18-84	Total Depth 7426	P.B.T.D. 7380 '
Developer (DF. RKB. RT. GR. etc.) 5885'GR	Name of Producing Formation Basin-Dakota	Top Oll/Gas Pay	7329 ¹
7194 -7166', 7 389 -7320	222'-7217', 7262'-7255',	7285'-7279', 7316'-7301'	Depth Contac Shoe
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INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled or depend 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.

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Page 2 of Form C-105 (Jacquez Gas Com "F")

28. 4-1/2", 11.6#, K-55, 7426', 7-7/8" hole: 983 cu. ft. of Bubble cement and 1010 cu. ft. Econolite cement. Iailed in w/118 cf class & rest

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32. crosslinked agent 290 gal., liquid activation 12 gal., delayed crosslinker 65 gal. and 307,000# Brady sand.

STATE OF NEW MEXICO	OT 3 NITUCY
AGY AND MINERALS DEPARTMENT	Aztec
OIL CONSERVATION DIVISION	Form C-103
DISTRIBUTION P. O. BOX 2088	Revised 10-1-78
SANTA FE SANTA FE, NEW MEXICO 87501	
	5a. Indicate Type of Lease
. U.S. C. S.	State Fee X
UAND OFFICE	5. State Oil & Gas Lease No.
OPERATOR	
SUNDRY NOTICES AND REPORTS ON WELLS	
SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT -" (FORM C-101) FOR SUCH PROPOSALS.)	
	7. Unit Agreement Name
IL GAS WELL X OTHER-	8. Form or Lease Name -
ne of Operator	
Amoco Production Company	Jacquez Gas Com "F"
ress of Operator	1
501 Airport Drive, Farmington, NM 87401	10, Field and Pool, or Wildcat
ection of Well	
NIT LETTER C 1120 FEET FROM THE NOTTH LINE AND 1450 FEET FROM	mmmmmm ^{**}
West LINE, SECTION 34 TOWNSHIP 32N RANGE 10W NMPM	• UIIIIIIIIIIIIIII IIIIIIII
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	12. County
5885' GR	San Juan
Check Appropriate Box To Indicate Nature of Notice, Report or Of	ther Data
NOTICE OF INTENTION TO: SUBSEQUEN	T REPORT OF:
DAM REMEDIAL WORK	ALTERING CASING
DRARILY ASANDON	PLUG AND ABANDONMENT
OR ALTER CASING CHANGE PLANS CASING TEST AND CEMENT JOB	
OTHER COMPTECTOR	
HER	
escribe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, includin	g estimated date of starting any proposed
scribe Proposed or Completed Operations (Clearly state all perificial actions, and good perificial actions) and good perificial actions (Clearly state all perificial actions, and good perificial actions) and good perificial actions (Clearly state all perificial actions).	
oved in and rigged up service unit on 6/27/84. Total depth of the we	ell is 7426' and plugback
epth is 7386 . Pressure tested production casing to 4000 psi. Set a	a cement retainer at
360' and stung in. Squeezed retainer at 7360' with 59 cu. ft. Class	B Neat Perforated the
bu and stung in. Squeezed relative at 7500 with 59 cu. it. 51435	701 7316 ¹ -7301 ¹
bllowing intervals: 7194'-7166', 7222'-7217', 7262'-7255', 7285'-72	77, 7510 = 7501,
39'-7320', 2jspf, .38" in diameter, for a total of 160 holes. Frace	
th 2% KCL 2800#/400 BBL, hi temperature stabilizer 1600#, gelling ag	gent 5280#, surfactant
3 gal, breaker 175#, crosslinked agent 290 gal, liquid activator 12	gal, delayed crosslinker
3 gal, breaker 175#, crosslinked agent 290 gal, liquid activator 12 gal., activator 150#, lotemp antifoam 15 gal., and 307,000# Brady s	gal, delayed crosslinker
5 gal., activator 150#, lotemp antifoam 15 gal., and 307,000# Brady s	gal, delayed crosslinker
5 gal., activator 150#, lotemp antifoam 15 gal., and 307,000# Brady s	gal, delayed crosslinker sand.
5 gal., activator 150#, lotemp antifoam 15 gal., and 307,000# Brady s	gal, delayed crosslinker sand.
anded 2-3/8" tubing at 7329' and released the rig on 7/18/84.	gal, delayed crosslinker
anded 2-3/8" tubing at 7329' and released the rig on 7/18/84.	gal, delayed crosslinker sand. RCCEIVED
5 gal., activator 150%, lotemp antifoam 15 gal., and 307,000# Brady sanded 2-3/8" tubing at 7329' and released the rig on 7/18/84.	gal, delayed crosslinker sand. RCCEIVED
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53 gal, breaker 175#, crosslinked agent 290 gal, liquid activator 12 5 gal., activator 150#, lotemp antifoam 15 gal., and 307,000# Brady s anded 2-3/8" tubing at 7329' and released the rig on 7/18/84. $\frac{1266727479}{406}$ AUG 101984	gal, delayed crosslinker sand. RCCEIVED AUG D2 1984
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anded 2-3/8" tubing at 7329' and released the rig on 7/18/84. 1340 1340 AUG I01984 OIL CONSERVATION DIVISION	gal, delayed crosslinker sand. RECEIVED AUG D2 1984 OIL CON. DIV.'

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BDShaw	Administrative Supervisor	DATE 7/30/84
HOVED BY June June June June June June June June	TITLE SUPERVISOR DISTRICT 7 3	AUG 0 2 1984

NDITIONS OF APPROVAL, IF	AN
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Fair Cold Controller C	-1-78
P. O. BOX 2088 Portised 1	
	-1-70
SANTAFE SANTAFE NEW MEXICO 87501	
USSICIS. State Fee	LĂ.
OPERATOR JUL 171964	
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Amoco Production Company Amoco Production Comp	n
address of Operator	
501 Airport Drive, Farmington, NM 87401 1 10. Field and Pool, or WHdcat	
C 1120 North LINE AND FEET FROM THE Basin Dakota	~~~~
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THE West LINE, SECTION 34 TOWNSHIP 32N RANGE 10W NMPM.	$\langle \rangle \rangle \langle \rangle$
THE WEST LINE, SECTIONTOWNSHIP HARGE	777
15. Elevation (Show whether DF, RT, CR, etc.) 12. County	()))
5885'GR San Juan	()))
Check Appropriate Box To Indicate Nature of Notice, Report or Other Data	
NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF:	
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PLUG AND ABANDON REMEDIAL WORK	
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Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1 103.

Spud a 14-3/4" hole on 5-5-84. Drilled to 323'. Set 11-3/4", 42#, H-40 casing at 323' and cemented with 531 cu. ft. of Class "B" Neat and 2% CaCl₂. Circulated cement to surface. Drilled a 10-5/8" hole to 3125'. Set 8-5/8", 24#, K-55 casing at 3125' on 5-14-84. Cemented with 1078 cu. ft. Class "B" 50:50 poz, 6% gel, 2# med tuf plug. Tailed in with 118 cu. ft. Class "B" Neat cement. Pressure tested casing to 1000 psi. Drilled a 7-7/8" hole to a TD of 7426'. Set 4-1/2", 11.6#, K-55 casing at 7426'. Cemented with 983 cu. ft. of Bubble cement and 1010 cu. ft. Econolite cement. Tailed in with 118 cu. ft. of Class "B" Neat cement. Circulated to surface. No DV tool was set and the rig was released on 6-1-84.

.I hereby certify that the information above is true and comple	ete to the best of	f my knowledge and belief.	
HED Delawson	Dis	t. Adm. Supervisor	6-25-84
PROVED BY	TITLE	SUPERVISOR DISTRICT 7 3	DATE JUN 28 1984

Amoco Production Company request previously approved drilling per casing to total depth will be do total depth wil	rilled using gas. RECE MAY O OIL CON DIST.	71984 J. DIV.
previously approved drilling per casing to total depth will be dr	rilled using gas. RECE MAY O OIL CON DIST.	71984 J. DIV.
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moco Production Company request	rmit. The hole from the bottom of the in	tormodiate
	t approval to revise our drilling procedu	re of our
work) SEE RULE 1103.		
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STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT DIL CONSERVATION DIVISION

AZTEC DISTRICT OFFICE

TONEY ANAYA

February 6, 1984

1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO 87410 (505) 334-6178

GAS

Amoco Production Co. 501 Airport Drive Farmington NM 87401

NWU 3- 1032

SUBJECT:

NON-STANDARD GAS PRORATION UNIT CONSISTING OF 5/309.02 ACRES IN THE Basin Dakota

POOL DESCRIBED AS FOLLOWS:

TOWNSHIP 32 NORTH, RANGE 10 WEST, NMPM

SECTION: 34

By authority granted me by Rule 5 (B) of Order R-1670, as amended, the abovedescribed acreage has been approved as a non-standard gas proration unit to

be dedicated to the Jacquez Gas Com F

well-no. _____, located 1120'FNL and 1450'FWL ______ of said

Section 34 .

Supervisor, District #3

sc: Oil Conservation Division Santa Fe, New Mexico

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				Registered I	18, 1984 Professional Engineer Surveyor 3. Kerry Jr.	
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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

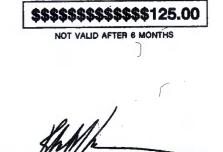
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CITIBANK DELAWARE. A SUBSIDIARY OF CITICORP ONE PENN'S WAY, NEW CASTLE. DE 19720

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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.	MEM/	MEXTCO
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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 -2-Case No. 7361 Order No. R-6884

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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 not 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:

	31 NORTH, RANGE 10 WEST, NMPM
Sections	1 through 36: All
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	31 NORTH, RANGE 11 WEST, NMPM
Section	1: All
Sections	12 and 13: All
	22 through 27: All
Sections	34 through 36: All
	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	11 MBBI, MMPM
		and 13: All	
Sections	22	through 27:	ווא
Sections	34	through 36:	Δ.1 1
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TOWNSHIP	32	NORTH, PANGE	10 WEST, NMPM
Sections	7	through 36:	A11
TOWNSHIP	32	NORTH, RANGE	11 WEST, NMPM
Sections	1	through 27:	A11
Sections	34	through 36:	A11
TOWNSHIP	32	NORTH, RANGE	12 WEST, NMPM
Sections	7	through 24:	A11
Sections	28	through 31:	A11
TOWNSHIP	32	NORTH, RANGE	13 WEST, NMPM
Sections	7	through 29:	A11
Sections	32	through: 36:	A11

-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

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ARNOLD / Chairman ERY

ALEX J. ARMIJO, Member An lier JOE D. RAMEY, Member & Secretary

SEAL



(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: 8:45 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). 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.

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-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 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

* 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 and he perisons allighted as nothelater motoost Commission.

^{&#}x27;No party requested a hearing and no hearing was held.

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 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 § 271.203(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 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.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.

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 seg.*; 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. Phimb. Secretary.

September 30, 1982.

PART 271 [AMENDED]

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

§ 271.703 Tight formations.

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(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 Besin-Dakota Gas Pool in the northwestern portion of the San Juan Basin near the Hogback Monocline. It is found in San Man 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 36; 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 Limeatone 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 0.753 feet. The gross thickness of the interval averages 400 feet.

[PR Decute2-27434-Filed 10-5-82; 845 am] BILLING CODE:8717-01-10

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.

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) 357–8558.

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 Texas² supports the assertion that the Olmos

^t 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).

^aMimeo-at p. 2.

¹ 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.

UNITED STATES OF AMERICA PEDERAL ENERGY REGULATORY COMMISSION

18 C.F.R. Part 271

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

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ORDER NO. 262

AGENCY : Federal Energy Regulatory Commission

ACTION : Final rule

SUMMARY : The Pederal 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 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) 357-8616.

DC-C-108

UNITED STATES OF AMERICA PEDERAL ENERGY REGULATORY COMMISSION

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

High-Cost Gas Produced from Tight Pormations Docket No. RM79-76-103 (New Mexico - 9)

ORDER NO. 262

FINAL 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 <u>Ped. Reg.</u> 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

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 $\leq 271.703(c)(2)(i)(D)$. 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 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 irilling in a substantially developed formation 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 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.

^{2/} 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.

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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 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 press sure 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 evpected 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 wella 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

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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 pro-ducers in the recommended formation other than El Paso, which do not receive cost-of-service pricing for gas produced therefrom. Pinally, the tight formation incen-tive 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. <u>j</u>

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)(1). 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. 8479-76-103 List of Subjects in 18 C.F.R. Part 271:

Natural gas, incentive price, Tight formations.

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

In consideration of the foregoing, Part 271 of

Subchapter H, Chapter I, Code of Pedeal Regulations, is

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

(SEAL)

Kennett F. Blunt Secretary.

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Section 271.703(d) is revised by adding new subparagraph (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 .s found within the Basin-Dakota Gas Pool in the northwes arn portion of the San Juan Basin near the Hogback Monocline. It is found in San Juan County, in Township 31 North, Fange 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, NMPH, Sections 7 through 24, 28 through 31; and Township 32 North, range 13 West, NMPM, Sections 7 through 29 and 32 through 36.

(11) Depth. The Dakota Producing Interval begins at the base of the Greenhorn Limestone and consists of the Graneros Pormation, the Dakota Pormation 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 16, 20 through 29, and 31 through 36, Township 6 North, Ranges 64 through 68, all sections, Range 69 West, Sections 1 through 4, 9 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 010-23 § 271.703 ¶ 24,173