State of New Mexico ENERGY AND MINERALS DEPARTMENT	Form C-132 Revised 10/1/86
OIL CONSERVATION DIVISION	
FOR DIVISION         1220 S. St. Francis Dr. Santa Fe, NM 87505-547Z           USE ONLY:         APPLICATION FOR WELLHEAD PRICE CEILING CATEGORY DETERMINATION	STATE STATE FEE
WAS APPLICATION CONTESTED?       YES NO       application is mandatory. (Rule 2, Order No. R-5878-8-3         NAME(S) OF INTERVENORS(S), IF ANY:       Aa	5. State Oil & Gas Lease No.  7. Unit Agreement Name  8. Farmor Lease Name  Lopez Gas Com
	9. Well No. 1E
4. Location of Well	10. Field and Pool, or Wildcat Basin Dakota
UNIT LETTER A LOCATED 1050 FEET FROM THE North LINE	San Juan
El Paso Field Services	

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:

, *4* 

APINO. 30-045-26195

- 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

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	FOR DIVISION USE ONLY
HEREIN IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.	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 applicant/under Subpart 8/0f Part 274 of the FERC
SIGNATURE OF APPLICANT	regulation M-
Title Senior Regulatory Analyst	Hutunt to Star
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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A3  $\mathbf{X}$  natural gas from a designated tight formation.

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

1.	Well Name	and No.*	Lopez Gas	Com # 1E		
2.	Com leted i	n (Name of Re	servpir) *	Dakota		
3.	Field *	Basin Dakota	a			
4.	County *	San Juan				
5	State *	New Mexico	)			
6.	API Well N	o. (14 digits ma	aximumIf n	ot assigned, leave	<u>blank.) <b>30-0</b>4</u>	15-26195
9.			mpleted Interv	. ,	6966'	
				ND THE IDENI	ITY OF THE P	ERSON WHO IS
1.	Applicant's	Name * BP	America Proc	luction Company		
2.	Street *	50	1 Westlake Pa	irk BLVD		
3.	City *	Но	ouston			
4.	State*	Те	xas		5. Zip C	Code 77079
6.	Name of Per	son Responsib	le * Mai	y Corley		
7.	Title of Sucl	n Person *	Sei	nior Regulatory A	nalyst	
8.	Signature	MAL	1. laslen	/	and Phone No. (	001 ) 266 4401
	2. 3. 4. 5. 9. 9. <b>AH</b> 5 <b>PO</b> 1. 2. 3. 4. 6. 7.	<ol> <li>Com leted i</li> <li>Field *</li> <li>County *</li> <li>State *</li> <li>API Well Network</li> <li>Measured D TOP 6680</li> <li>Measured D TOP 6680</li> <li>APPLICANT'S SPONSIBLE FO</li> <li>Applicant's 1</li> <li>Street *</li> <li>City *</li> <li>State*</li> <li>Name of Per</li> <li>Title of Sucl</li> </ol>	2. Com leted in (Name of Re         3. Field *       Basin Dakota         4. County *       San Juan         5. State *       New Mexico         6. API Well No. (14 digits ma         9. Measured Depth of the ConTOP 6680'         APPLICANT'S MAILING A         SPONSIBLE FOR APPLICA         1. Applicant's Name *       BP         2. Street *       50         3. City *       Ho         4. State*       Te         6. Name of Person Responsib       7. Title of Such Person *	2. Com leted in (Name of Reservpir) *         3. Field *       Basin Dakota         4. County *       San Juan         5. State *       New Mexico         6. API Well No. (14 digits maximum. If not state)       If not state is not state is not state is not state.         9. Measured Depth of the Completed Interve TOP 6680'         APPLICANT'S MAILING ADDRESS All SPONSIBLE FOR APPLICATION:         1. Applicant's Name *       BP America Procession         2. Street *       501 Westlake Pa         3. City *       Houston         4. State*       Texas         6. Name of Person Responsible *       Mar         7. Title of Such Person *       Set	2. Com leted in (Name of Reservpir) *       Dakota         3. Field *       Basin Dakota         4. County *       San Juan         5. State *       New Mexico         6. API Well No. (14 digits maximum. If not assigned, leave         9. Measured Depth of the Completed Interval (in feet) TOP 6680'         7. Title of Such Person *         8. Name of Person Responsible *         9. Manual Mark         9. Measured Depth of the Completed Interval (in feet) TOP 6680'         9. Measured Depth of the Completed Interval (in feet) TOP 6680'         9. Measured Depth of the Completed Interval (in feet)         10. Applicant's MAILING ADDRESS AND THE IDENT         11. Applicant's Name *       BP America Production Company         22. Street *       501 Westlake Park BLVD         3. City *       Houston         4. State*       Texas         6. Name of Person Responsible *       Mary Corley         7. Title of Such Person *       Senior Regulatory Ar	2. Com leted in (Name of Reservpir) * Dakota         3. Field * Basin Dakota         4. County * San Juan         5. State * New Mexico         6. API Well No. (14 digits maximum. If not assigned, leave blank.) 30-04         9. Measured Depth of the Completed Interval (in feet) TOP 6680' BASE 6966'         APPLICANT'S MAILING ADDRESS AND THE IDENTITY OF THE P         Sponsible FOR APPLICATION:         1. Applicant's Name * BP America Production Company         2. Street *       501 Westlake Park BLVD         3. City *       Houston         4. State*       Texas       5. Zip C         6. Name of Person Responsible *       Mary Corley         7. Title of Such Person *       Senior Regulatory Analyst

\* 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 Lopez Gas Com well # 1E, API No. 30-045-26195 is natural gas produced from a FERC designated tight formation, assigned State No. NM – *#* 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 /

18

Senior Regulatory Analyst Subscribed in my presence and duly sworn to before me, this 13 day of February, 2003.

Notary Public

**BLM Affidavit** 

Patricia Bogg Disiena Notery Public, State of Texas My Commission Expires September 20, 2005 My Commission Expires:

J.



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 - Dakota Lopez Gas Com Well No. 1E 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 2003

API- 30-045-26195

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

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STATE OF NE				FARMINGTON		Form C-105
ENERGY AND MINER				DISTRICT		Revised 10-1-78
		OH CON	SERVATIO	V DIVISION	ľ	
DISTRIBUTIO		0.2 001			Ba, inala	ale Type of Lease
SANTA FE		CANTA	P. O. BOX 2088			X See
FILE		SANIAI	FE, NEW MEX	and the second sec	5. Sigte	Oll & Gas Lease No.
U.S.C.S.				DDL		
LAND OFFICE	WELL	COMPLETION	OR RECOMPLE		ND LOG	
OPERATOR				GOM		
IC. TYPE OF WELL				TWE		
	016	641 (TT)		BDS -	2. Unit A	greement Name
. TYPE OF COMPLE	write	GAS WELL	ORY OF	SMH	17 12 Farm	
				BJW	G NE Farm	or Lease Name
2. Name of Operator	CA DECPEN		DIFF. OT	· Hurzon		z Gas Com
Amoco Pro	duction Co.				85 Well N	
1						1 E
J. Address of Operator	rt Drive Fe	mminoto N	1 0 7 1 0 1			and Pool, or Wildcat
Joi Milpo	rt Drive, Fa	rmington, N	M 87401.	DIST of		
4. Location of Well						n Dakota
				1 Xm m	<u>VIIII</u>	THIMMININ
WHIT SETTER A	LOCATED 1050		North	1000	()))	
	LUCATED	FEET FROM THE .	NULUI LINE	AND 1020 ,	LET FROM	
Fact	2	2.0.11		///////////////////////////////////////	12. Count	All Harris
THE East LINE OF	SEC. 2 TWP.	29N	NMPM	/////X/////	San J	Juan
15. Date Spudded	16. Date T.D. Reached	d 17. Date Compl. (	Ready to Prod.)	8. Elevations (DF, R	KB, RT, GR, esc. 1	9. Eley, Cashinghage
7-27-85	8-30-85	9-26-8	5	5724' KB		5709' GR
29. Total Depth	21. Plug Back	T.D. 22.	. If Multiple Compi.,	How 23 Interval	, Rotary Tools	
7069'	702	27'	Many Single	Drilled I	$a_y$ : 0-TD	Capie Tools
24. Producing Interval(s	s), of this completion - "	Top, Bottom, Name			►: 0 10	No
						25. Was Directional Survey Mage
6680'-6806	Dakota .					Mage
26. Type Elecuic and C						Yes
	SP; CDL-CNL-G				27.	Was Well Cored
	SF, CDL-CNL-G	- CAL				No
28.						NO
		CASING REC	ORD (Report all str	ngs set in well)		NO
CASING SIZE	WEIGHT LB./FT.	CASING REC	ORD (Report all str			
		DEPTH SET	HOLE SIZE	CEMENT	ING RECORD	AMOUNT PULLES
CASING SIZE	36# K-55	DEРТН SET 365 1	HOLE SIZE	CEMENT 307 c.f.	Class B Wo	AMOUNT PULLES
CASING SIZE 9 578"		DEPTH SET	HOLE SIZE	CEMENT 307 c.f. 295 c.f.	Class B Wo Class B Ho	AMOUNT PULLED odico WCO, 118 c.f.
CASING SIZE 9 578" 7 "	36# K-55 20# J-55	DEPTH SET 365 ' 2795 '	HOLE SIZE	CEMENT 307 c.f. 295 c.f. Class B H	Class B Wo Class B Ho owco, 160 c	AMCUNT PULLES odico Wco, 118 c.f. .f. Class B How
CASING SIZE 9 578"	36# K-55 20# J-55	DEPTH SET 365' 2795' 7069'	HOLE SIZE	CEMENT 307 c.f. 295 c.f. Class B H	Class B Wo Class B Ho owco, 160 c	AMCUNT PULLES odico Wco, 118 c.f. .f. Class B How
CASING SIZE 9 5/8" 7" 4 1/2" 29.	36# K-55 20# J-55 11.6# K-55 LINER R	DEPTH SET 365' 2795' 7069' ECORD	HOLE SIZE	CEMENT 307 c.f. 295 c.f. Class B H	Class B Wo Class B Ho owco, 160 c	AMCUNT PULLES odico wco, 118 c.f. .f. Class B How rt <sup>1</sup> land (cont.)
CASING SIZE 9 578" 7 "	36# K-55 20# J-55 11.6# K-55 LINER R	DEPTH SET 365' 2795' 7069'	HOLE SIZE	CEMENT 307 c.f. 295 c.f. Class B H 183 c.f. 30.	Class B Wo Class B Ho owco, 160 c Class B, Po	AMCUNT PULLED odico Wco, 118 c.f. .f. Class B How rtland (cont.) CORD
CASING SIZE 9 578" 7" 4 1/2" 29.	36# K-55 20# J-55 11.6# K-55 LINER R	DEPTH SET 365' 2795' 7069' ECORD	HOLE SIZE	CEMENT 307 c.f. 295 c.f. Class B H 183 c.f. 30.	Class B Wo Class B Ho owco, 160 c Class B, Po TUBING RE DEPTH SET	AMCUNT PULLES odico Wco, 118 c.f. .f. Class B How rtland (cont.) CORD PACKER SET
CASING SIZE 9 5/8" 	36# K-55 20# J-55 11.6# K-55 LINER R ТОР ВО	DEPTH SET 365' 2795' 7069' ECORD TTOM SACKS C	HOLE SIZE	CEMENT 307 c.f. 295 c.f. Class B H 183 c.f. 30.	Class B Wo Class B Ho owco, 160 c Class B, Po TUBING RE	AMCUNT PULLED odico Wco, 118 c.f. .f. Class B How rtland (cont.) CORD
CASING SIZE 9 578" 7" 4 1/2" 29. 5IZE	36# K-55 20# J-55 11.6# K-55 LINER R	DEPTH SET 365' 2795' 7069' ECORD TTOM SACKS C	HOLE SIZE	CEMENT 307 c.f. 295 c.f. Class B Hu 183 c.f. 30. EN SIZE	Class B Wo Class B Ho owco, 160 c Class B, Po TUBING RE DEPTH SET 2 3/8"	AMCUNT PULLED odico Wco, 118 c.f. .f. Class B How rtland (cont.) CORD PACKER SET 6985 1
CASING SIZE 9 578" 7 " 4 1/2" 29. SIZE 11. Perforation Record (	36# K-55 20# J-55 11.6# K-55 LINER R TOP BO	DEPTH SET 365' 2795' 7069' ECORD TTOM SACKS C	HOLE SIZE 12 1/4" 8 3/4" 6 1/4" CEMENT SCRE 32.	CEMENT 307 c.f. 295 c.f. Class B Hi 183 c.f. 30. EN SIZE ACID, SHOT, FRA	Class B Wo Class B Ho owco, 160 c Class B, Po Tubing Re DEPTH SET 2 3/8" CTURE, CEMENT SU	AMCUNT PULLEE odico wco, 118 c.f. .f. Class B How rtland (cont.) CORD PACKER SET 6985 '
CASING SIZE 9 5/8" 7 " 4 1/2" 29. SIZE J1. Perforation Record () 6 680 ° - 6710 °	<u>36# K-55</u> 20# J-55 <u>11.6# K-55</u> LINER R тор во Interval, size and number , 6794'-6806	DEPTH SET 365' 2795' 7069' ECORD TTOM SACKS C	HOLE SIZE 12 1/4" 8 3/4" 6 1/4" CEMENT SCRE 32. DEP	CEMENT 307 c.f. 295 c.f. Class B Hi 183 c.f. 30. EN SIZE ACID, SHOT, FRA TH INTERVAL	Class B Wo Class B Ho owco, 160 c Class B, Po tubing re Depth set 2 3/8" CTURE, CEMENT SI AMOUNT AND K	AMCUNT PULLED odico web, 118 c.f. .f. Class B How rtland (cont.) CORD PACKER SET 6985 1 QUEEZE, ETC. IND MATERIAL USED
CASING SIZE 9 578" 7 " 4 1/2" 29. SIZE J1. Perforation Record ( 6680 ' -6710 ' . 37", 168 h	<u>36# K-55</u> 20# J-55 <u>11.6# K-55</u> LINER R тор во <i>Interval, size and number</i> , 6794'-6806 noles 6846'	DEPTH SET 365' 2795' 7069' ECORD TTOM SACKS C , 4 jspf, -6852',	HOLE SIZE 12 1/4" 8 3/4" 6 1/4" CEMENT SCRE 32. DEP 6680	CEMENT 307 c.f. 295 c.f. Class B Hu 183 c.f. 30. EN SIZE ACID, SHOT, FRA TH INTERVAL -6806' (6)	Class B Wo Class B Ho owco, 160 c Class B, Po TUBING RE DEPTH SET 2 3/8" CTURE, CEMENT SI AMOUNT AND K	AMCUNT PULLEE odico web, 118 c.f. .f. Class B How rtland (cont.) CORD PACKER SET 6985 ' GUEEZE, ETC. IND MATERIAL USED 70 qual foam &
CASING SIZE 9 5/8" 7" 4 1/2" 29. SIZE 31. Perforation Record ( 6 680 ' - 67 10 ' . 37", 168 H 6 876 ' - 6886 '	36# K-55 20# J-55 11.6# K-55 LINER R TOP BO Interval, size and number , 6794'-6806 noles 6846' , 6896'-6902	DEPTH SET 365' 2795' 7069' ECORD TTOM SACKS C ', 4 jspf, -6852', ', 6954'-69	HOLE SIZE 12 1/4" 8 3/4" 6 1/4" CEMENT SCRE 32. DEP 6680 966',	CEMENT 307 c.f. 295 c.f. Class B Hu 183 c.f. 30. EN SIZE ACID, SHOT, FRA TH INTERVAL -6806' (6)	Class B Wo Class B Ho owco, 160 c Class B, Po TUBING RE DEPTH SET 2 3/8" CTURE, CEMENT SI AMOUNT AND K 55,000 gal 95,000 # 20-	AMCUNT PULLEE odico wco, 118 c.f. .f. Class B How rtland (cont.) CORD PACKER SET 6985 ' QUEEZE, ETC. IND MATERIAL USED 70 qual foam & 40 mesh brady s
CASING SIZE 9 578" 7 " 4 1/2" 29. SIZE J1. Perforation Record ( 6 680 ' - 67 10 ' . 37", 168 H 6 876 ' - 6886 '	<u>36# K-55</u> 20# J-55 <u>11.6# K-55</u> LINER R тор во <i>Interval, size and number</i> , 6794'-6806 noles 6846'	DEPTH SET 365' 2795' 7069' ECORD TTOM SACKS C ', 4 jspf, -6852', ', 6954'-69	HOLE SIZE 12 1/4" 8 3/4" 6 1/4" CEMENT SCRE 32. DEP 6680 966',	CEMENT 307 c.f. 295 c.f. Class B Hu 183 c.f. 30. EN SIZE ACID, SHOT, FRA TH INTERVAL -6806' (6)	Class B Wo Class B Ho owco, 160 c Class B, Po TUBING RE DEPTH SET 2 3/8" CTURE, CEMENT SI AMOUNT AND K 55,000 gal 95,000 # 20-	AMCUNT PULLEE odico wco, 118 c.f. .f. Class B How rtland (cont.) CORD PACKER SET 6985 ' QUEEZE, ETC. IND MATERIAL USED 70 qual foam & 40 mesh brady s
CASING SIZE 9 5/8" 7 " 4 1/2" 29. SIZE J1. Perforation Record ( 6 680 ' - 6710 ' . 37", 168 H 6 876 ' - 6886 ' 4 jspf, . 37	36# K-55 20# J-55 11.6# K-55 LINER R TOP BO Interval, size and number , 6794'-6806 noles 6846' , 6896'-6902	DEPTH SET 365' 2795' 7069' ECORD TTOM SACKS C ', 4 jspf, -6852', ', 6954'-69	HOLE SIZE 12 1/4" 8 3/4" 6 1/4" CEMENT SCRE 32. DEP 6680 966',	CEMENT 307 c.f. 295 c.f. Class B Hu 183 c.f. 30. EN SIZE ACID, SHOT, FRA TH INTERVAL -6806' C -6966'	Class B Wo Class B Ho owco, 160 c Class B, Po TUBING RE 2 3/8" CTURE, CEMENT SI AMOUNT AND K 55,000 gal 25,000 gal	AMCUNT PULLEC odico wco, 118 c.f. .fl. Class B How rtland (cont.) CORD PACKER SET 6985' 000000000000000000000000000000000000
CASING SIZE 9 5/8" 7 " 4 1/2" 29. SIZE 11. Perforation Record ( 6680'-6710' .37", 168 H 6876'-6886' 4 jspf, .37 33.	36# K-55 20# J-55 11.6# K-55 LINER R TOP BO JALERVAL, Size and number , 6794'-6806 101es 6846' , 6896'-6902 ''', 136 holes	DEPTH SET 365' 2795' 7069' ECORD TTOM SACKS C ', 4 jspf, -6852', ', 6954'-69	HOLE SIZE 12 1/4" 8 3/4" 6 1/4" CEMENT SCRE 32. DEP 6680 966', 6846 PRODUCTION	CEMENT 307 c.f. 295 c.f. Class B Hu 183 c.f. 30. EN SIZE ACID, SHOT, FRA TH INTERVAL -6806' (0) -6966' (0)	Class B Wo Class B Ho owco, 160 c Class B, Po TUBING RE 2 3/8" CTURE, CEMENT SI AMOUNT AND K 55,000 gal 25,000 gal	AMCUNT PULLEC odico wco, 118 c.f. .fl. Class B How rtland (cont.) CORD PACKER SET 6985' 1 OUEEZE, ETC. IND MATERIAL USED 70 qual foam & 40 mesh brady s 30# Xlink gel s
CASING SIZE 9 5/8" 7" 4 1/2" 29. SIZE 31. Perforation Record ( 6 680 ' - 67 10 ' . 37", 168 H 6 876 ' - 6886 '	36# K-55 20# J-55 11.6# K-55 LINER R TOP BO JALERVAL, Size and number , 6794'-6806 101es 6846' , 6896'-6902 ''', 136 holes	DEPTH SET 365' 2795' 7069' ECORD TTOM SACKS C ', 4 jspf, -6852', ', 6954'-69	HOLE SIZE 12 1/4" 8 3/4" 6 1/4" CEMENT SCRE 32. DEP 6680 966', 6846 PRODUCTION	CEMENT 307 c.f. 295 c.f. Class B Hu 183 c.f. 30. EN SIZE ACID, SHOT, FRA TH INTERVAL -6806' (0) -6966' (0)	Class B Wo Class B Ho owco, 160 c Class B, Po TUBING RE DEPTH SET 2 3/8" CTURE, CEMENT SC AMOUNT AND K 55,000 gal 95,000 # 20- 75,000 gal	AMCUNT PULLED odico web, 118 c.f. .f. Class B How rtland (cont.) CORD PACKER SET 6985 1 QUEEZE, ETC. IND MATERIAL USED
CASING SIZE 9 5/8" 7 " 4 1/2" 29. SIZE 31. Perforation Record ( 6 680 ' - 67 10 ' . 37", 168 H 6 876 ' - 6886 ' 4 jspf, . 37 33. Dete First Production 10-2-85	36# K-55 20# J-55 11.6# K-55 LINER R TOP BO JALERVAL, Size and number , 6794'-6806 101es 6846' , 6896'-6902 ''', 136 holes	DEPTH SET 365' 2795' 7069' ECORD TTOM SACKS C 1, 4 jspf, -6852', ', 6954'-69 Schod (Flowing, gas 1)	HOLE SIZE 12 1/4" 8 3/4" 6 1/4" CEMENT SCRE 32. DEP 6680 966', 6846 PRODUCTION	CEMENT 307 c.f. 295 c.f. Class B Hu 183 c.f. 30. EN SIZE ACID, SHOT, FRA TH INTERVAL -6806' (0) -6966' (0)	Class B Wo Class B Ho owco, 160 c Class B, Po TUBING RE DEPTH SET 2 3/8" CTURE, CEMENT SI AMOUNT AND K 55,000 gal 95,000 # 20- 75,000 gal 95,000 # 20-	AMCUNT PULLEE odico web, 118 c.f. .f. Class B How rtland (cont.) CORD PACKER SET 6985 1 GUEEZE, ETC. IND MATERIAL USED 70 qual foam & 40 mesh brady s 30# Xlink gel s 40 mesh brady s
CASING SIZE 9 5/8" 7" 4 1/2" 29. SIZE 31. Perforation Record (A 6 680 ' - 6710 ' . 37", 168 H 6 876 ' - 6886 ' 4 jspf, . 37 33. Date First Production 10-2-85 Date of Test	<u>З6# K-55</u> <u>20# J-55</u> <u>11.6# K-55</u> <u>LINER R</u> тор во <i>Interval, size and number</i> , 6794'-6806 noles 6846' , 6896'-6902 ''', 136 holes Production Me	DEPTH SET 365' 2795' 7069' ECORD TTOM SACKS C 4 5 5 6 5 5 5 5 5 5 5 5 5 5 5 5 5	HOLE SIZE 12 1/4" 8 3/4" 6 1/4" CEMENT SCRE 32. DEP 6680 066', 6846' PRODUCTION i/t, pumping = Size For Oli = Bbl.	CEMENT 307 c.f. 295 c.f. Class B Hi 183 c.f. 30. EN SIZE ACID, SHOT, FRA TH INTERVAL -6806' (c) -6966' and type pump/	Class B Wo Class B Ho owco, 160 c Class B, Po TUBING RE DEPTH SET 2 3/8" CTURE, CEMENT SI AMOUNT AND K 55,000 gal 5,000 # 20- 75,000 gal 95,000 # 20-	AMCUNT PULLEE odico web, 118 c.f. .f. Class B How rtland (cont.) CORD PACKER SET 6985 ' QUEEZE, ETC. IND MATERIAL USED 70 qual foam & 40 mesh brady s 30# Xlink gel s 40 mesh brady s us (Prod. or Shut-in) t - In
CASING SIZE 9 578" 7 " 4 1/2" 29. SIZE 31. Perforation Record ( 6 680 ' - 6710 ' . 37", 168 H 6 876 ' - 6886 ' 4 jspf, . 37 33. Dete First Production 10-2-85	36# K-55         20# J-55         11.6# K-55         LINER R         TOP         BO         Interval. size and number         , 6794'-6806         101es         6896'-6902         ''', 136 holes         Production Me	DEPTH SET 365' 2795' 7069' ECORD TTOM SACKS C 1, 4 jspf, -6852', ', 6954'-69 Sthod (Flowing, gas ! Flowing	HOLE SIZE 12 1/4" 8 3/4" 6 1/4" CEMENT SCRE 32. DEP 6680 066', 6846' PRODUCTION i/t, pumping = Size For Oli = Bbl.	CEMENT 307 c.f. 295 c.f. Class B Hu 183 c.f. 30. EN SIZE ACID, SHOT, FRA TH INTERVAL -6806' (0) -6966' (0)	Class B Wo Class B Ho owco, 160 c Class B, Po TUBING RE DEPTH SET 2 3/8" CTURE, CEMENT SI AMOUNT AND K 55,000 gal 95,000 # 20- 75,000 gal 95,000 # 20-	AMCUNT PULLEE odico web, 118 c.f. .f. Class B How rtland (cont.) CORD PACKER SET 6985 ' GUEEZE, ETC. IND MATERIAL USED 70 qual foam & 40 mesh brady s 30# Xlink gel s 40 mesh brady s
CASING SIZE 9 5/8" 7 " 4 1/2" 29. SIZE 31. Perforation Record ( 6 680 ' - 67 10 ' . 37", 168 H 6 876 ' - 6886 ' 4 jspf, . 37 33. Dete First Production 10-2-85 Date of Test 10-3-85 Flow Tubing Press.	36# K-55         20# J-55         11.6# K-55         LINER R         TOP         BO         Jaterval, size and number         , 6794'-6806         holes         6896'-6902         '''', 136 holes         Production Me         Hows Tested       Che         3 hr s	DEPTH SET 365' 2795' 7069' ECORD TTOM SACKS C 1, 4 jspf, -6852', 1, 6954'-69 Sathod (Flowing, gas 1 Flowing Sate Size Prod'n. 75'' Test Pe	HOLE SIZE 12 1/4" 8 3/4" 6 1/4" CEMENT SCRE 32. DEP 6680 966', 6846 PRODUCTION ift, pumping - Size For OII - Bbl. ritod	CEMENT 307 c.f. 295 c.f. Class B Hu 183 c.f. 30. EN SIZE ACID, SHOT, FRA TH INTERVAL -6806' C -6966' C C C C C C C C C C C C C	Class B Wo Class B Ho owco, 160 c Class B, Po TUBING RE DEPTH SET 2 3/8" CTURE, CEMENT SU AMOUNT AND K 05,000 gal 05,000 gal	AMCUNT PULLEC odico Wco, 118 c.f. .fl. Class B How rtland (cont.) CORD PACKER SET 6985' 1 OUEEZE, ETC. IND MATERIAL USED 70 qual foam & 40 mesh bradv s 30# X1ink gel s 40 mesh bradv s us (Frod. or Shut-in) t - In Gas-Ct: Ecuc
CASING SIZE 9 578" 7 " 4 1/2" 29. SIZE 31. Perforation Record ( 6 680 ' - 6710 ' . 37", 168 H 6 876 ' - 6886 ' 4 jspf, . 37 33. Dete First Production 10-2-85 Date of Test 10-3-85	36# K-55         20# J-55         11.6# K-55         LINER R         TOP         BO         Jacerval, size and number         , 6794'-6806         holes         6896'-6902         ''', 136 holes         Production Me         Hows Tested         3 hr s         Casing Pressure	DEPTH SET 365' 2795' 7069' ECORD TTOM SACKS C 1, 4 jspf, -6852', ', 6954'-69 Sthod (Flowing, gas ! Flowing parts lize   Prod'n.	HOLE SIZE 12 1/4" 8 3/4" 6 1/4" CEMENT SCRE 32. DEP 6680 966', 6846 PRODUCTION ift, pumping = Size For OII = Bbl. Gas =	CEMENT 307 c.f. 295 c.f. Class B Hi 183 c.f. 30. EN SIZE ACID, SHOT, FRA TH INTERVAL -6806' (c) -6966' Gas - MCF 341 - MCF Water	Class B Wo Class B Ho owco, 160 c Class B, Po TUBING RE DEPTH SET 2 3/8" CTURE, CEMENT SU AMOUNT AND K 05,000 gal 05,000 gal	AMCUNT PULLEE odico web, 118 c.f. .f. Class B How rtland (cont.) CORD PACKER SET 6985 ' QUEEZE, ETC. IND MATERIAL USED 70 qual foam & 40 mesh brady s 30# Xlink gel s 40 mesh brady s us (Prod. or Shut-in) t - In
CASING SIZE 9 5/8" 7 " 4 1/2" 29. SIZE 11. Perforation Record (A 6 680 ' - 6710 ' . 37", 168 H 6 876 ' - 6886 ' 4 jspf, . 37 33. Date First Production 10-2-85 Date of Test 10-3-85 Flow Tubing Press. 2 20 psig	36# K-55         20# J-55         11.6# K-55         LINER R         TOP         BO         Interval, size and number         , 6794'-6806         holes         6896'-6902         ''', 136 holes         Production Me         Hows Tested       Che         3 hrs         Casing Pressure       Caling House	DEPTH SET 365' 2795' 7069' ECORD TTOM SACKS C 1, 4 jspf, -6852', 1, 6954'-69 Sthod (Flowing, gas! Flowing Step Size Prod'n. .75'' Test Pe	HOLE SIZE 12 1/4" 8 3/4" 6 1/4" CEMENT SCRE 32. DEP 6680 966', 6846 PRODUCTION ift, pumping = Size For OII = Bbl. Gas =	CEMENT 307 c.f. 295 c.f. Class B Hu 183 c.f. 30. EN SIZE ACID, SHOT, FRA TH INTERVAL -6806' C -6966' C C C C C C C C C C C C C	Class B Wo Class B Ho owco, 160 c Class B, Po TUBING RE DEPTH SET 2 3/8" CTURE, CEMENT SU AMOUNT AND K 05,000 gal 05,000 gal	AMCUNT PULLEC odico Wco, 118 c.f. .fl. Class B How rtland (cont.) CORD PACKER SET 6985' 1 OUEEZE, ETC. IND MATERIAL USED 70 qual foam & 40 mesh bradv s 30# X1ink gel s 40 mesh bradv s us (Frod. or Shut-in) t - In Gas-Ct: Ecuc
CASING SIZE 9 5/8" 7 " 4 1/2" 29. SIZE 31. Perforation Record ( 6 680 ' - 6710 ' . 37", 168 H 6 876 ' - 6886 ' 4 jspf, . 37 33. Dete First Production 10-2-85 Date of Test 10-3-85 Flow Tubing Press. 220 psig 34. Disposition of Gas (5)	36# K-55         20# J-55         11.6# K-55         LINER R         TOP         BO         Interval, size and number         , 6794'-6806         holes         6896'-6902         ''', 136 holes         Production Me         Hows Tested       Che         3 hrs         Casing Pressure       Caling House	DEPTH SET 365' 2795' 7069' ECORD TTOM SACKS C 1, 4 jspf, -6852', 1, 6954'-69 Sthod (Flowing, gas! Flowing Step Size Prod'n. .75'' Test Pe	HOLE SIZE 12 1/4" 8 3/4" 6 1/4" CEMENT SCRE 32. DEP 6680 966', 6846 PRODUCTION ift, pumping = Size For OII = Bbl. Gas =	CEMENT 307 c.f. 295 c.f. Class B Hi 183 c.f. 30. EN SIZE ACID, SHOT, FRA TH INTERVAL -6806' (c) -6966' Gas - MCF 341 - MCF Water	Class B Wo Class B Ho OWCO, 160 c Class B, Po TUBING RE DEPTH SET 2 3/8" CTURE, CEMENT SC AMOUNT AND K 55,000 gal 05,000 gal	AMCUNT PULLEE odico web, 118 c.f. .f. Class B How rtland (cont.) CORD PACKER SET 6985 1 000000000000000000000000000000000000
CASING SIZE 9 578" 7 " 4 1/2" 29. SIZE 31. Perforation Record ( 6 680 ' - 6710 ' . 37", 168 H 6 876 ' - 6886 ' 4 j s p f, . 37 33. Dete First Production 10-2-85 Date of Test 10-3-85 Flow Tubing Press. 2 20 p S i g 34. Disposition of Cas (S To Be Sold	36# K-55         20# J-55         11.6# K-55         LINER R         TOP         BO         Interval, size and number         , 6794'-6806         holes         6896'-6902         ''', 136 holes         Production Me         Hows Tested       Che         3 hrs         Casing Pressure       Caling House	DEPTH SET 365' 2795' 7069' ECORD TTOM SACKS C 1, 4 jspf, -6852', 1, 6954'-69 Sthod (Flowing, gas! Flowing Step Size Prod'n. .75'' Test Pe	HOLE SIZE 12 1/4" 8 3/4" 6 1/4" CEMENT SCRE 32. DEP 6680 966', 6846 PRODUCTION ift, pumping = Size For OII = Bbl. Gas =	CEMENT 307 c.f. 295 c.f. Class B Hi 183 c.f. 30. EN SIZE ACID, SHOT, FRA TH INTERVAL -6806' (c) -6966' Gas - MCF 341 - MCF Water	Class B Wo Class B Ho pwco, 160 c Class B, Po TUBING RE DEPTH SET 2 3/8" CTURE, CEMENT SC AMOUNT AND K 55,000 gal 95,000 # 20- 75,000 gal 95,000 # 20- Weil State Shu Water - Bbl. - Ebl. Ci	AMCUNT PULLEE odico web, 118 c.f. .f. Class B How rtland (cont.) CORD PACKER SET 6985 1 000000000000000000000000000000000000
CASING SIZE 9 578" 7 " 4 1/2" 29. SIZE 11. Perforation Record (A 6 680 $^{\circ}$ - 6710 $^{\circ}$ . 37", 168 H 6 876 $^{\circ}$ - 6886 $^{\circ}$ 4 jspf, . 37 33. Dete First Production 10-2-85 Date of Test 10-3-85 Flow Tubing Press. 220 psig 14. Disposition of Gas (S To Be Sold 15. List of Attachments	36# K-55         20# J-55         11.6# K-55         LINER R         TOP         BO         Interval, size and number         , 6794'-6806         holes         6896'-6902         ''', 136 holes         Production Me         Hows Tested       Che         3 hrs         Casing Pressure       Caling House	DEPTH SET 365' 2795' 7069' ECORD TTOM SACKS C 1, 4 jspf, -6852', 1, 6954'-69 Sthod (Flowing, gas! Flowing Step Size Prod'n. .75'' Test Pe	HOLE SIZE 12 1/4" 8 3/4" 6 1/4" CEMENT SCRE 32. DEP 6680 966', 6846 PRODUCTION ift, pumping = Size For OII = Bbl. Gas =	CEMENT 307 c.f. 295 c.f. Class B Hi 183 c.f. 30. EN SIZE ACID, SHOT, FRA TH INTERVAL -6806' (c) -6966' Gas - MCF 341 - MCF Water	Class B Wo Class B Ho OWCO, 160 c Class B, Po TUBING RE DEPTH SET 2 3/8" CTURE, CEMENT SC AMOUNT AND K 55,000 gal 05,000 gal	AMCUNT PULLEE odico web, 118 c.f. .f. Class B How rtland (cont.) CORD PACKER SET 6985 1 000000000000000000000000000000000000
CASING SIZE 9 5/8" 7" 4 $1/2$ " 29. SIZE 31. Perforation Record ( 6 680 ' - 6710 ' . 37", 168 H 6 876 ' - 6886 ' 4 jspf, . 37 33. Dete First Production 10-2-85 Date of Test 10-3-85 Flow Tubing Press. 220 psig 34. Disposition of Gas (S To Be Sold 35. List of Attachments None	36# K-55         20# J-55         11.6# K-55         LINER R         TOP         BO         Interval, size and number         , 6794'-6806         holes         6896'-6902         ''', 136 holes         Production Me         Hows Tested         2 hr s         Casing Pressure         770 psig         oid, used jor fuel, vented	DEPTH SET 365' 2795' 7069' ECORD TTOM SACKS C TTOM SACKS C 	HOLE SIZE 12 1/4" 8 3/4" 6 1/4" CEMENT SCRE 32. DEP 6680 966', 6846 PRODUCTION if, pumping = Size For OII = Bbl. Cas = 27	CEMENT 307 c.f. 295 c.f. Class B Hi 183 c.f. 30. EN SIZE ACID, SHOT, FRA TH INTERVAL -6806' (c) -6966' (c) and (ype pump) Gas - MCF 341 - MCF Valer	Class B Wo Class B Ho pwco, 160 c Class B, Po TUBING RE DEPTH SET 2 3/8" CTURE, CEMENT SC AMOUNT AND K 55,000 gal 95,000 gal 95,000 gal 95,000 gal 95,000 gal 95,000 gal 05,000 gal 05	AMCUNT PULLEE odico web, 118 c.f. .f. Class B How rtland (cont.) CORD PACKER SET 6985 1 000000000000000000000000000000000000
CASING SIZE 9 5/8" 7" 4 $1/2$ " 29. SIZE 31. Perforation Record ( 6 680 ' - 67 10 ' . 37", 168 H 6 876 ' - 6886 ' 4 jspf, . 37 33. Dete First Production 10-2-85 Date of Test 10-3-85 Flow Tubing Press. 220 psig 34. Disposition of Gas (S To Be Sold 35. List of Attachments None	36# K-55         20# J-55         11.6# K-55         LINER R         TOP         BO         Interval, size and number         , 6794'-6806         holes         6896'-6902         ''', 136 holes         Production Me         Hows Tested         2 hr s         Casing Pressure         770 psig         oid, used jor fuel, vented	DEPTH SET 365' 2795' 7069' ECORD TTOM SACKS C TTOM SACKS C 	HOLE SIZE 12 1/4" 8 3/4" 6 1/4" CEMENT SCRE 32. DEP 6680 966', 6846 PRODUCTION if, pumping = Size For OII = Bbl. Cas = 27	CEMENT 307 c.f. 295 c.f. Class B Hi 183 c.f. 30. EN SIZE ACID, SHOT, FRA TH INTERVAL -6806' (c) -6966' (c) and (ype pump) Gas - MCF 341 - MCF Valer	Class B Wo Class B Ho pwco, 160 c Class B, Po TUBING RE DEPTH SET 2 3/8" CTURE, CEMENT SC AMOUNT AND K 55,000 gal 95,000 gal 95,000 gal 95,000 gal 95,000 gal 95,000 gal 05,000 gal 05	AMCUNT PULLEE odico web, 118 c.f. .f. Class B How rtland (cont.) CORD PACKER SET 6985 1 000000000000000000000000000000000000
CASING SIZE 9 5/8" 7" 4 1/2" 29. SIZE 1. Perforation Record (A 6 680 ' - 67 10 ' . 37", 168 H 6 876 ' - 6886 ' 4 jspf, . 37 33. Date First Production 10-2-85 Date of Test 10-3-85 Flow Tubing Press. 2 20 ps ig 34. Disposition of Gas (S To Be Sold 15. List of Attachments	36# K-55         20# J-55         11.6# K-55         LINER R         TOP         BO         Interval, size and number         , 6794'-6806         holes         6896'-6902         ''', 136 holes         Production Me         Hows Tested         2 hr s         Casing Pressure         770 psig         oid, used jor fuel, vented	DEPTH SET 365' 2795' 7069' ECORD TTOM SACKS C TTOM SACKS C 	HOLE SIZE 12 1/4" 8 3/4" 6 1/4" CEMENT SCRE 32. DEP 6680 966', 6846 PRODUCTION if, pumping = Size For OII = Bbl. Cas = 27	CEMENT 307 c.f. 295 c.f. Class B Hi 183 c.f. 30. EN SIZE ACID, SHOT, FRA TH INTERVAL -6806' (c) -6966' (c) and (ype pump) Gas - MCF 341 - MCF Valer	Class B Wo Class B Ho pwco, 160 c Class B, Po TUBING RE DEPTH SET 2 3/8" CTURE, CEMENT SC AMOUNT AND K 55,000 gal 95,000 gal 95,000 gal 95,000 gal 95,000 gal 95,000 gal 05,000 gal 05	AMCUNT PULLEE odico web, 118 c.f. .f. Class B How rtland (cont.) CORD PACKER SET 6985 1 000000000000000000000000000000000000
CASING SIZE 9 5/8" 7" 4 1/2" 29. SIZE 1. Perforation Record (A 6 680'-6710' . 37", 168 H 6 876'-6886' 4 jspf, . 37 33. Dete First Production 10-2-85 Date of Test 10-3-85 Flow Tubing Press. 220 psig 34. Disposition of Cas (S To Be Sold 15. List of Attachments None	36# K-55         20# J-55         11.6# K-55         LINER R         TOP         BO         Interval, size and number         , 6794'-6806         holes         6896'-6902         ''', 136 holes         Production Me         Hows Tested         2 hr s         Casing Pressure         770 psig         oid, used jor fuel, vented	DEPTH SET 365' 2795' 7069' ECORD TTOM SACKS C 1, 4 jspf, -6852', ', 6954'-69 Sthod (Flowing, gas! Flowing Stressize Prod'n. Test Per Categories 24- OII - B A fair A fair A fair both sides of this for	HOLE SIZE 12 1/4" 8 3/4" 6 1/4" CEMENT SCRE 32. DEP 6680 966', 6846 PRODUCTION if, pumping = Size For OII = Bbl. Cas = 27	CEMENT 307 c.f. 295 c.f. Class B Hu 183 c.f. 30. EN SIZE ACID, SHOT, FRA TH INTERVAL -6806' (c) and type pump) Gas - MCF 341 -MCF *aler	Class B Wo Class B Ho owco, 160 c Class B, Po TUBING RE DEPTH SET 2 3/8" CTURE, CEMENT SC AMOUNT AND K 55,000 gal 95,000 # 20- 75,000 gal 95,000 # 20- Kei! Statt Shu Water - 351. Ci Test Witnessed Bryan Se	AMCUNT PULLEE odico web, 118 c.f. .f. Class B How rtland (cont.) CORD PACKER SET 6985 1 000000000000000000000000000000000000

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Page:	1	Document	Name:	untitled

CMD : OG6IWCM	ONGARD INQUIRE WELL COMPLETIONS	04/28/03 09:30:58 OGOMES -TP8P
Pool Idn : OGRID Idn :	30 45 26195 Eff Date : 01-01-1986 71599 BASIN DAKOTA (PRORATED GAS) 778 BP AMERICA PRODUCTION COMPANY 810 LOPEZ GAS COM	WC Status : A
Well No : GL Elevation:		
	U/L Sec Township Range North/South	East/West Prop/Act(P/A)
Lot Identifie Dedicated Acr Lease Type	e: 324.00	
E6317	: No more recs. for this api well no.	

1001	NO MOLE IC	CB. IOI CHIB	api weii no.		
PF01 HELP	PF02	PF03 EXIT	PF04 GoTo	PF05	PF06
PF07	PF08	PF09	PF10 NEXT-WC	PF11 HISTORY	PF12 NXTREC

CMD : OG6ACRE	ONGARD C102-DEDICATE ACREAGE	04/28/03 09:31:45 OGOMES -TP8P Page No : 1
API Well No : 30 45 2	6195 Eff Date : 04-30-1	991
	SIN DAKOTA (PRORATED GAS)	
Prop Idn : 810 L	OPEZ GAS COM	Well No : 001E
	OPEZ GAS COM CD Order :	
Sect/Twp/Rng : 2 29N 0 Dedicated Land:	9W Acreage : 324.00	Revised C102? (Y/N) :
S Base		L/W Ownership Lot Idn
	E 2 29N 09W 40.00	
	F 2 29N 09W 40.00	
	G 2 29N 09W 40.00	
	H 2 29N 09W 40.00	
A	1 2 29N 09W 39.95	
В	2 2 29N 09W 40.65	N FE
С	3 2 29N 09W 41.35	N FE
D	4 2 29N 09W 42.05	N FE
	to modify or PF keys to	
		PF05 PF06 CONFIRM
PF07 BKWD PF08 FWD	PF09 PF10 LAND	PF11 NXTSEC PF12 RECONF

CMD : OG5SECT	ONGARI INQUIRE LAND		04/28/03 09:30:46 OGOMES -TP8P PAGE NO: 1
Sec : 02 Twp : 29N	Rng: 09W Section	n Type : NORMAL	
4	3	2	1
42.05	41.35	40.65	39.95
			CS
			B10889 0032
Fee owned	Fee owned	Fee owned	EL PASO PRODUCTIO
C	C	C	C 12/22/53
A	A		A
E	F	G	H
40.00	40.00	40.00	40.00
			CS CS
			E02940 0000
Fee owned	Fee owned	Fee owned	BP AMERICA PRODUC
C A	C		C 09/10/59
A		A	AA
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PF01 HELP PF02	PF03 EXIT I	PF04 GoTo PF05	PF06
PF07 BKWD PF08 FWI		PF10 SDIV PF11	PF12

Page: 1 Document Name: untitled

CMD : OG5SECT	ONGARD INQUIRE LAND BY SECTION	04/28/03 09:31:13 OGOMES -TP8P
	Ingoing mine bi bleiton	PAGE NO: 2
Sec : 02 Twp : 29N R	ng : 09W Section Type : NORMAL	

And the second se			
L	K K	J	I
40.00	40.00	40.00	40.00
CS	CS	CS	CS
E01203 0011	E01203 0011	E05314 0001	E00053 0024
EL PASO PRODUCTIO	EL PASO PRODUCTIO	BP AMERICA PRODUC	CONOCO INC
C 02/10/57	C 02/10/57	C 06/11/61	C 01/10/55
A A	A	С	
M	N	0	P
40.00	40.00	40.00	40.00
CS		CS	CS
B10889 0033		E05314 0001	B10889 0032
BP AMERICA PROD &	Federal owned	BP AMERICA PRODUC	EL PASO PRODUCTIO
C 12/22/53	C	C 06/11/61	C 12/22/53
		A	A
PF01 HELP PF02	PF03 EXIT PI	F04 GoTo PF05	PF06
PF07 BKWD PF08 FWI	D PF09 PRINT PI	F10 SDIV PF11	PF12

– ubmit 5 Copies appropriate District Office <u>DISTRICT 1</u> O. Box 1980, Hobbs, NM 88240			Ainerals	and Natu	w Mexico ral Resources Dej				Form C-10 Revised I-1 See Instruc at Bottom of	-89 tions
ISTRICT II		OIL C	ONSI	ERVA' P.O. Bo	TION DIVI	SION		ISERVENION	I DIVISIO	N
O. Drawer DD, Artesia, NM 88210		Sa	inta Fe,		xico 87504-208	8	OIL CUI	RECEVE	5	
ISTRICT III 100 Rio Brazos Rd., Aziec, NM 87410	REQU	JEST F			LE AND AUTH		TIGNAI	16.2? PT	1 1 02	
Derator					///////////////////////////////////////		Well A			
AMOCO PRODUCTION COMPAN	NY						300	452619500		
ddress P.O. BOX 800, DENVER,	COLORAI	0 8020	01							
cason(s) for Filing (Check proper bax)	,	Change in	Transport	ter of:	Other (Plea	se explain,	)			
lew Well	Oil		Dry Gas							
change in Operator	Casinghea	d Gas	Condens	aie X						
ad address of previous operator										
. DESCRIPTION OF WELL	AND LE	ASE Well No.	Pool Na	me. Includir	g Formation		Kind o	Lease	Leas	No.
LOPEZ GAS COM		1E			TA (PRORATE	GAS)		rederal or Fee		
Location		1050	/		FNL	102	0		FEL	• • • •
Unit Letter	- :	29-	_ Feet Fro		TWL Line and _	102	Fee	a From The	<u>ren</u>	Line
Section 31 Township	p 2,8	N	Range	140	, NMPM,		SAN	JUAN		County
II. DESIGNATION OF TRAN	SPORTE	ER OF C	DIL ANI	NATU	RAL GAS					
Name of Authorized Transporter of Oil		or Conde	mante	X	Address (Give addre					
MERIDIAN OIL INC.	obead Gas		or Dry	Gas X	3535 EAST					
Name of Authorized Transporter of Casing EL PASO NATURAL GAS CO	MPANY				P.O. BOX	1492,	EL PAS	0, TX 799		
If well produces oil or liquids, jve location of tanks.	Unit	Soc.	Twp.	Rge.	Is gas actually conne	cted?	When	?		
f this production is commingled with that V. COMPLETION DATA	from any of						D	Plug Back Sa	ma Pas'w	Diff Res'v
Designate Type of Completion	- (X)	Oil We		las Well	New Well Wor	kover	Deepen	Find Dack 154	ILE KESV	
Date Spudded		npl. Ready	to Prod.		Total Depth			P.B.T.D.		
Elevations (DF, RKB, RT, GR, etc.)	Name of	Producing	Formation		Top Oil/Gas Pay			Tubing Depth		
Elevations (DF, KKB, KI, OK, EL.)								Depth Casing S	lice	
Perforations								Dejan Casing C		
· · · · · · · · · · · · · · · · · · ·					CEMENTING R		)			
HOLE SIZE	C	ASING &	TUBING	SIZE	DEP	TH SET		SA	CKS CEME	
				_	N					
V. TEST DATA AND REQUE	ST FOR	ALLO	VABLE				<u> </u>			
OIL WELL (Test must be after	recovery of	total volu	ne of load	oil and mus	t be equal to or excee Producing Method	d top allo	wable for the	is depth or be for etc.)	full 24 hour.	r.)
Date First New Oil Run To Tank	Date of	rest			1 loubling means	() 10m; p=				
Length of Test	Tubing I	ressure			Casing Pressure		NE	Choke Size		
Actual Prod. During Test	Oil - Bb	ls			Water Dis B	6-6-	112	MCF		
Actual Flott During Teat	0					111	1000			
GAS WELL								Gravity of Co	indensate	
Actual Prod. Test - MCF/D	Length	of Test				CO	-	F Clavity of Co	IC. Banc	
Testing Method (pitot, back pr.)	Tubing	Pressure (S	ihut-in)		Casing Pressure (S	ind Case V		Choke Size		
VI. OPERATOR CERTIFI	CATE	OF COM	MPLIA	NCE		001		ATION E		N
I hereby certify that the rules and reg	ulations of	the Oil Co	nservation				NOERI			
Division have been complied with an is true and complete to the best of m	id that the in y knowledg	e and belie	given ado f.	¥C	Date A	onrove	d	JUL 11	1990	
NII MA						-p.040			٨	
D.P. Uhley					Ву		3	w) e	hing	
Signature Doug W. Whaley, Sta	ff Admi	n. Su	pervis Tide	or			SUF	PERVISOR	DISTRIC	r #3
			11116						-	
Printed Name July 5, 1990		30	3-830- Telephone		Title			· · · · · · · · · · · · · · · · · · ·		

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.

Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.
 Suparate Form C-104 must be filed for each pool in multiply completed wells.

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	CIEXIVIETO
STATE OF NEW MEXICO	SEP 1 8 1987
	CIL COMPLETERE
DIL CONSER	CIL CONSERVATION DIVISION Formet 05 01-83 RVATION DEVISION Page 1
P, O	. BOX 2088
LAND UFFICE	NEW MEXICO 87501
TRANSPONTER	
OPERATCH REQUEST	AND
AUTHORIZATION TO TRA	ANSPORT OIL AND NATURAL GAS
Operajor Amoco Production Co.	P (T)
	EIVE III
Address 501 Airport Drive, Farmington, N M	87401
Reason(s) for filing (Check proper bas)	B7401 Other (Please explain) DCT 30 1985 Dry Gas Condensate
New Vell Change In Transporter of:	UN OCT 30, DIN.
Change in Ownership Casinghead Gae	Condensate
	OIL DIST.
l change of ownership give name nd oddress of previous owner	
DESCRIPTION OF WELL AND LEASE	
I. DESCRIPTION OF WELL AND LEASE Lease Name Well No. Pool Name, Including	
Lopez Gas Com   1 E   Basin Dal	kota State State
Location	
Unit Letter A : 1050 Feet From The North	Line and 1020 Feet From The East
Line of Section 2 Township 29N Range	9W . NMPM, San Juan County
IL DESIGN AND ALL TRANSPORTER OF AND MATCH	
IL. DESIGNATION OF TRANSPORTER OF OIL AND NATUI	Address (Give address to which approved copy of this form is to be sent)
Permian Corporation Permian (Eff. 97/1787)	P.O. Box 1702, Farmington, NM 87499
Idame of Authorized Transporter of Caeinghead Cas or Dry Cas El Paso Natural Gas Co.	Address (Give address to which approved copy of this form is to be sent) P.O. Box 990, Farmington, NIi 87499
Unti Sec. Two. Roe.	
ive location of tanks. A 2 29N 9V	
this production is commingled with that from any other lease or po	ol, give commingling order number:
OTE: Complete Parts IV and V on reverse side if necessary.	
	OIL CONSERVATION DIVISION
. CERTIFICATE OF COMPLIANCE	OCT 3.0 1985
ereby certify that the rules and regulations of the Oil Conservation Division ha en complied with and that the information given is true and complete to the best	
knowledge and belief.	BYOriginal Signed by FRANK 1. CHAYEZ
	SUPERVISOR DISTRICT 强 3
RNSL	TITLE This form is to be filed in compliance with RULE 1104.
BDShaw	This form is to be filed in compliance with RULE 1104. If this is a request for allowable for a newly drilled or deepend
RDShaw (Signalwe)	This form is to be filed in compliance with RULE 1104. If this is a request for allowable for a newly drilled or deepen- well, this form must be accompanied by a tabulation of the deviat: tests taken on the well in accordance with RULE 111.
BDShaw	This form is to be filed in compliance with RULE 1104. If this is a request for allowable for a newly drilled or deepen- well, this form must be accompanied by a tabulation of the deviat: tests taken on the well in accordance with RULE 111. All sections of this form must be filled out completely for allow
Adm. Supervisor (Tille) October 17, 1985	This form is to be filed in compliance with RULE 1104. If this is a request for allowable for a newly drilled or deepen- well, this form must be accompanied by a tabulation of the deviat: tests taken on the well in accordance with RULE 111. All sections of this form must be filled out completely for allow- able on new and recompleted wells. Fill out only Sections I, II, III, and VI for changes of owner.
RDShaw (Signalwe) Adm. Supervisor (Tille)	This form is to be filed in compliance with RULE 1104. If this is a request for allowable for a newly drilled or deepend 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 filled out completely for allow- able 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
Adm. Supervisor (Tille) October 17, 1985	This form is to be filed in compliance with RULE 1104. If this is a request for allowable for a newly drilled or deepen- well, this form must be accompanied by a tabulation of the deviat: tests taken on the well in accordance with RULE 111. All sections of this form must be filled out completely for allo- able on new and recompleted wells. Fill out only Sections I. II. III. end VI for changes of owner.
Adm. Supervisor (Tille) October 17, 1985	This form is to be filed in compliance with RULE 1104. If this is a request for allowable for a newly drilled or deepen- well, this form must be accompanied by a tabulation of the deviat: tests taken on the well in accordance with RULE 111. All sections of this form must be filled out completely for allo- able 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 filled for each pool in multip::

	/ · · · /
	RAL GAS COMPANY
	FICE BOX 990
PARMINGIC	DN, NEW MEXICO
TLB CV 1985	
A State of the second se	
Final State St	
NOTICE OF GAS CONNECTION	DATE January 22, 1986
24	January 22, 1900
THIS IS TO NOTIFY THE GIL CONSERVATIO	N COMMISSION THAT CONNECTION FOR PURCHASE OF
	IN COMMENTATION MATCOMPECTION FOR PERCHASE OF
GAS FROMAmoco Prod.	Lopez Gas Com #1E
Cperator	Well Name
95-650-01 10940-51	<u>A</u> 2–29–9
Mater Code Site Code	Well Unit S-T-R
Basin - Dakota	El Paso Natural Gas Co.
Pcol	·····································
reor	Name of Purchaser
WAS MADE ON 12-18-85	FIRST DELIVERY 1-9-86
Date the form Date watch in the	Date
	Date
AOF 3200	
CHOKE _2728	
그는 것 같은 것 같은 것 같은 것 같은 바람이 가지?	
	El Paso Natural Gas Co.
	Purchaser
	in in
	Ellere Alale of
	Representative 25/2
	C. On the
	Title
•	
CC: OFERATOR	DECEIVEM
OIL CONSERVATION COMMISSION (2)	
PRODUCTION CONTROL - El Paso	JAN 2 4 1986
LEASE DEVELOPMENT - El Paso	
CONTRACT ADMINISTRATION - E1 Paso	OIL CON. DIV.
File	5 DIST. 3

5 045 PER

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

# NOTICE OF GAS CONNECTION

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

GAS FROM Amor	co Prod. Operator	Lopez Gas Com #	lE il Name	
95-650-01	10940-51	A	2-29-9	
Mater Code	Site Code	Well Unit	S-T-R	
. Basin - Dako	ota	El Paso Natura	al Gas Co.	
	Pcol	Name	of Purchaser	
WAS MADE ON	12-18-85 Date	FIRST DELIVERY_	1-9-86 Date	
AOF				
	가지 않는 것이 있는 것이 같은 것이 있는 것이 있는 것이다. 같이 같은 것이 같은 것이 같은 것이 있는 것이 같은 것이 같이 있는 것이 같이 있는 것이 같이 있는 것이 같이 있는 것이 없다. 것이 같은 것이 같이 있는 것이 없는 것이 없는 것이 없는 것이 없다.			

**E**1 Paso Natural Gas Purchaser Representative

Title

cc: OPERATOR

OIL CONSERVATION COMMISSION (2) PRODUCTION CONTROL - El Paso LEASE DEVELOPMENT - El Paso CONTRACT ADMINISTRATION - El Paso File

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STATE OF NEW MEXICO		•		
ENERGY AND MINERALS DEPARTMENT	(ALS)			Form C-104
E an ar interesting				Revised 10-01-78 Format 06-01-83
OIL OIL	CONSERV	ATION DIVISIO	N	Page 1
THE COLORA THE REAL	16 П. О. ВС	DX 2088		· ·
S S	ANTA FE, NEI	W MEXICO 87501		
LAND OFFICE	NO:2110 M			-
TRANSPORTER OIL CALOCITETY TA		RALLOWABLE		
OPERATCH		ND	•	
PROMATION OFFICE AUTHORIZ		PORT OIL AND NATUR	RAL GAS	
l.				
Amoco Production Co.		• • •	aEL	VED
Address	N.M.	37401	LOW A XNO	-
501 Airport Drive, Farming	LUII, N FI C		- juj -	N. DIV. 51. 3
Reason(s) for filing (Check proper box)		Other (Please	explaining nCT30	ON.
	ransporter of:			N. V.
Recompletion		ty Gas		-T 3.
Change in Ownership Casingh		ondensate	DI DI	51.
	Basin Dakot		Kind of Lease State, Federal or Fee	State
	Dasin Dakot	La	State, Federat of Fede	
Location				
Unit Letter A : 1050 Feet From T	he North Lin	• and 1020	_ Feel From The	<u>East</u>
Line of Section 2 Township 29N	Range	9W . NMPM.	San Juan	County
UL DECLASION OF TRANSPORTER OF OH	ANTO NUMPER DAT	CAS		
HL. DESIGNATION OF TRANSPORTER OF OIL Name of Authorized Transporter of Cil	AND WATUKA	Asidiess (Give address to	which approved copy o	f this form is to be sent)
Permian Corporation	4	P.O. Box 1702		
Name of Authorized Transporter of Casinghead Gas	or Dry Gas	Address (Give address ti	which approved copy o	f this form is to be sent)
El Paso Natural Gas Co.		P.O. Box 990,	Farmington,	NM 87499
Unit Sec.	Twp. Rge.	Is gas actually connecte	d? When	
If well produces oil or liquids, give location of tanks. A 2	29N 9W	No	I	
this production is commingled with that from any o	ther icase or pool.	give commingling order	number:	
OTE: Complete Parts IV and V on reverse side				
1. CERTIFICATE OF COMPLIANCE		10-30-85 OIL CO	DNSERVATION DI	YEST 3 0 1985
		APPROVED	^	19
hereby certify that the rules and regulations of the Oil Conse een complied with and that the information given is true and co	omplete to the best of		8)	
hy knowledge and belief.	-	BY Juddel	V	
ſ	1	TITLE	O SUPERVI	SOR DISTRICT II S
OICI		TITLE		
KNNhai			be filed in compliance	
NOU		If this is a requi	be accompanied by a	a newly drilled or deepensed tabulation of the deviation
(Signature) Adm. Supervisor	4	tests taken on the w	ell in accordance wi	th AULE 111.
(Title)	[	All sections of t	his form must be fille	d out completely for allow-
October 17, 1985		able on new and rec		VI for changes of owner,
		Fill out Only Se	CTIONS I. U. IU. 400	AT IN CURIERAS OF OMLIGU

(Date)

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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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Form C-104 Revised 10-01-78 Format 06-01-83 Page 2

### V. COMPLETION DATA

Designate Type of Completi	on - (X)	Oli Well	Gas Well X	New Well X	Workover	Deepen	Plug Back	Same Res'v.	Dill. Rest
Date Spudded	Date Comp	I. Ready to		Total Depti		-4	P.B.T.D.		L
7-27-85	1	9-26-85			7069'		. 7	027	
Clevations (DF, RKB, RT, GR, etc.) 5709' GR		Dakota	Ł		<b>B Pay</b> 6680'	•	Tubing Dep 6	985'	
Perforations 6680'-6710' 6876'-6886'							Depth Casir	g Shoe	
		TUBING,	CASING, AN	D CEMENTI	NG RECORI	>			
HOLE SIZE	CASI	NG & TUB	ING SIZE		DEPTH SE	T	SA	CKS CEMEN	T
12 1/4"	9 5/8	'36# K	-55		365'		307	cu. ft	•
8 3/4"	7"	20# J	1-55	1	2795		573	cu. f.t	•
6 1/4"	4 172'	11.6#	K-55	1	7069'		521	cu. ft	
· · ·	2 3/8	1			6985				

. TEST DATA AND REQUEST FOR ALLOWABLE (Test must be after recovery of total volume of load oil and must be equal to or exceed top allow-OIL WELL able for this depth or be for full 24 hours)

tate First New Oll Run To Tanks	Date of Test	Producing Method (Flow, pump, gas life	, elc.) *
ength of Test	Tubing Prossure	Casing Pressure	Choke Size
stual Prod. During Test	Oll-Bble.	Water - Bble.	Gas • MCF
			· · · · ·

### AS WELL

stual Prod. Test-MCF/D	Length of Test	Bbis. Condensate/MMCF	Gravity of Condensate
2728	3 hrs		
Saling Method (pitol, back pr.)	Tubing Pressure ( Shut-in )	Cr Prossure (Shut-in)	Choke Size
Flowing	1520 psig	1775 psig	.75"

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۰.					1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1				
STATE OF NE		T	x37525						na, C - 105 <sup>2</sup> ised 10 - 1 - 78
we, or comics acce		TOK OK	LEONSH	VATI	ONDIX	ISION	ſ	Sa. Indicate	Type of Lease
DISTRIBUTIO	N	A Contraction of the second se	A 1985 FE	BOX 2	088			State 7	
SANTA FE		NOV US	AND FEL	NEW M	EXICO 8	7501		5. State Oll	6 Gas Lease No.
FILE		WELL COMP	DAVIS	NON					
LAND OFFICE		WELL COMP	FEIDONOR	RECOMP	LETION F	REPORT A	ND LOG	mm	VIIIIIIIIII
OPERATOR	`	ONSER	ATE IL				4		
TYPE OF WELL		<u>.</u>	مرجع المحمد ومن المدينة . مرجع المحمد ومن المدينة .		7.88°			7. Unit Agre	ement Name
	01L WE			a y 🛄	OTHER				
NEW X WC			CK DIFF.		R.E.C	EIA		8. Form or L Lopez (	ease Name Gas Com
Amoco Pro	duction (	Co.			1	30 1985	<b>b</b>	9. Well No.	1 E
Address of Operator 501 Airpo	rt Drive	Farming	ton, N M	8740	)1	ON. I	DIV.	10. Field and	a Pool, or Wildcat
Location of Well					OIL	DIST. 3		Basin 1	
		0.50	N	orth		1020			
T LETTER A	LOCATED	FEE	T FROM THEN		LINE AND	<u>1020</u>	FEET FROM	12. County	<i>HHHHHH</i>
East LINE OF				-		IXIII	IIIII	San Ju	
Date Spudded 7 - 27 - 85	16. Date T.D. F 8-30-8		ne Compl. (Read 9-26-85	dy to Prod.		724 K			Elev. Cashinghead 5709' GR
Total Depth 7.069	21. Ph	39 Back T.D. 7027	22. If H	Multiple Co	mpl., How	23. Interva Drilled	By Rotary	Tools	Cable Tools
Producing Interval				3115	gie –		→ : 0-1		·
6.680'-6806			, Nume					2:	5. Was Directional Survey Made
Type Electric and (	Other Logs Run							27 Wg	Yes Is Well Cored
DIL-IL-GR-		CNL-GR-CA	L					27	No
		C	ASING RECORD	) (Report a	ll strings set	in well)			
CASING SIZE	WEIGHT LB.		THSET	HOLE SI		CEMEN	TING RECO	RD	AMOUNT PULLED
9 5/8"	<u>36# K-5</u>	5 3	65'	12 1/4			. Class		
7 ''	20∦ J-5	5 27	95'	8 3/4					co, 118 c.f.
									E. Class B Howo
4 1/2"	<u>11.6# K</u>	INER RECORD	<u>69'</u>	6 1/4	+"  18	<u>3 c.f.</u> 30.		B. Port	tland (cont.)
SIZE	TOP	BOTTOM	SACKS CEM		CREEN	SIZE		TH SET	PACKER SET
						5.20	2 3/		6985 '
							4 31	0	0905
Perforation Record	(Interval, size an	d number)		32	. ACI	D, SHOT, FR	RACTURE, C	EMENT SQU	EEZE, ETC.
6680 <b>'-</b> 6710	', 6794'-	6806', 4	jspf,		DEPTH INT	ERVAL	AMOUN	T AND KIN	D MATERIAL USED
. 37", 168	holes 6	5846'-685	2',	66	80'-68	06'	65,000	gal 7(	) qual foam &
6876 <b>'-</b> 6886	', 6896'-	·6902', 6	954'-696	6', 📃			95,000	# 20-40	) mesh brady sr
4 jspf, .3	7", 136 h	oles.		68	846'-69	66'	75,000	gal 30	)# Xlink gel &
							95,000	<u># 20-40</u>	) mesh brady s
First Production	Dead	uction Method (F		PRODUCT				Well Status	(Prod. or Shue-in)
10 - 2 - 85	FIGU		wing		star unu ry,	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Shut-	
e of Test	Hours Tested	Choke Size	Prod'n. Fo		- Вы.	Gas - MCF	Water		Gas-Oil Ratio
10-3-85	3 hrs		Test Perio	→		341			
220 psig	770 psi		24- OII - Bbi.		Gas - MCF 2728	Wa	ter - Bbl.	Off C	Gravity - API (Corr.)
Disposition of Gas To Be Sola		el, vensed, esc.)		!		1		Witnessed By yan Ser	
List of Attachments									
None				_					
I hereby certify that	the information :	shown on both si	des of this form	is true and	i complete to	the best of i	ny knowledge	and belief.	
SIGNED	SDSh	au	דידו ב	Adm.	Super	visor		DATE 1	0-17-85
								- ^	

### #32 85.cu. ft. Class B Portland, 253 pu. ft. Class B Portland INSTRUCTIONS

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

### INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

8	outheastern New Mexico	Northwe	estem New Mexico
T. Anhy	Т. Салуоп	T. Ojo Alamo	T. Penn. "B"
T. Selt	T: Strawn	T. Kirtland-Fruitland	T. Penn. "C"
	T. Atoka	T. Pictured Cliffs	T. Penn. "D"
T. Yates	T. Miss	T. Cliff House	T. Leadville
	T. Devonian	T. Menefee	T. Madison
T. Queen	T. Silurian	T. Point Lookout 4550	T. Elbert
T. Grayburg	T. Montoya	T. Mencos	T. McCracken
T. San Andres	T. Simpson	T. Gallup5820	
T. Glorieta	T. McKee	Base Greenhorn6575	
T. Peddock	T. Ellenburger	T. Dakota 6680	' T
T. Blinebry	T. Gr. Wash	T. Morrison	T
T. Tubb	T. Granite	T. Todilto	T
T. Drinkard	T. Delaware Sand	T. Entrada	T
T. Abo	T. Bone Springs	T. Wingate	T
T. Wolfcamp	T	T. Chinle	T
T. Penn	T	T. Permian	T
T Cisco (Bough C)	T	T. Penn. "A"	T
	OIL OF	R GAS SANDS OR ZONES	
No. 1, from			to
No. 2, from	to		
No. 3, from		No. 6, from	
	-	RTANT WATER SANDS	
Include data on rate of wate	er inflow and elevation to which was	er mer in hole.	
	to		
No. 2, from		feet.	
No. 3, from	to	feet.	
No. 4, from	to	feet.	****
	FORMATION RECORD (	Attach additional sheets if necessary)	
From To Thickness	Econotica	From To Thickness	Formation

	10	in Feet	Formation	From	To	in Feet	Formation
						• ,	
1							

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	D			NE	W N	IEXICO	0 0	IL CON	SERVAT	TION I	COMM	ASSIO	N				Form C-	
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			A STATE				75	TAN									111	
Тур	e Test	] Initial		nie		hnual	1		X Sp		Test I 10 –	3-85			4 19	35	9	
	moco P	roduc	tio	n . N	iov		P	aso		1 Ga	s Co	ο.	Oil	co	N.	DIV	1	ne Na series
Poo	Bas	in		Fotal Bepth	NCS	Forma	ON	DIVISIO	N akota					UNDIS	5 <b>T. 3</b>			
Con	pletion Date 9-26-8		1	Total Depth 707	0	S ST S	1.5	Plug Bac 70	<u>к т</u> р 27		Elevat	ion 9 GL			r Lease e z G			
Csg 4.	. Size 500			a 4.00		7070 From 668				L То	6	966		Well No	1 E			
	. Sizo	Wt.	-	d		AL	-	Perforati						Unit	Sec.	Ťv	9.9	Rge
	375	4.7	hard	1.995 G.G. or G.		985		From	open Packer	To Set At	e e	nded		A		Z	9 .9	
I YF		ingle	modu	- 6.6. 6. 6. 6.	0. M	Intibio					one				San	Jua	n :	
	iucing Thru bing	R		oir Temp. *F	-	Mean Ai	nual	Temp. *F	Baro, P	ress	Pa			State	New	Mex	ico	
	L	н		e Ga		% CO 2	-	% N 2	<u> </u>	% H <sub>2</sub> S		Prov	er	Meter			aps	
.	-					-												
				OW DATA					1	BING	1				DATA		Dura	
NO.	Prover Line	X =	lice	p.s.i.g.		Diff, hw		Temp. °F	Pre p.s.			mp. F	Pres p. s. i		Ten • j		Flo	
SI	Size 7 day	S	· · · ·		-+-				152	0			177	5				
1.	2.375		750						22	0			7.7	0			<u>3 hr</u>	s.
2.					_	·												
3.					-+-												í -	
5.	· · · · · ·	· · · ·																
						RAT	ΕO	FFLOW	CALCL	LATIC	DNS							
	Coeffic	ient		√h <sub>w</sub> P <sub>m</sub>	-	Pres	sure		ow Temp. Factor		Gravi Facto	-		Super npress.		Rate	of Flow	N
NO.	(24 Ho	our)		V "w⁻m		F	m		Ft.		Fg			tor, Fpv		Q	, Meld	
1	12.36	5				23	32	1.	000		952	8	1.	027	- 2	2728		
2.										-							••••	
3. '4.										-								
ч. 5.																		
NO.	Pr.	Temp.	R	Tr		z		Liquid H									Mcl	
·								I. Gravit							×		XXX	
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3.							Cri	lical Pres	sure					P.S.1	1 C C C C C C C C C C C C C C C C C C C		P.\$	5.I.A.
4.			·				Crit	tical Temp	erature	<u> </u>					. R			R
5. Pc	1787	Pc <sup>2</sup> 3	19	.3369				P 2		1 2 2	60	•	Г	P 2	٦'n	1	1728	3
NO	Pt <sup>2</sup>	Pw		Pw <sup>2</sup>	Pc2	$-P_w^2$	(1)	$\frac{P_c^2}{P_c^2 - H}$	=	1.23	09	-	(2)	<sup>6</sup> C	2	=		
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8-3/4"	7"	20#, K-55	2575	450 cu. ft.	Class B
6-1/4"	4-1/2"	10.5#, K-55	6930'	1070 cu. ft.	Class B

Amoco proposes to drill the above well to further develop the Basin Dakota reservoir. The well will be drilled to the surface casing point using native mud. The well will then be drilled to TD with a low solids nondispersed mud system. Completion design will be based on open hole logs. Copy of all logs will be filed upon completion. Amoco's standard blowout prevention will be employed; see attached drawing for blowout preventer design. Upon completion the well site will be cleaned and the reserve pit filled and leveled. The gas from this well is undedicated at this time.

APPROVAL EXPIRES 17-18-85
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STATE OF NEW MEXICO

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# OIL CONSERVATION DIVISION

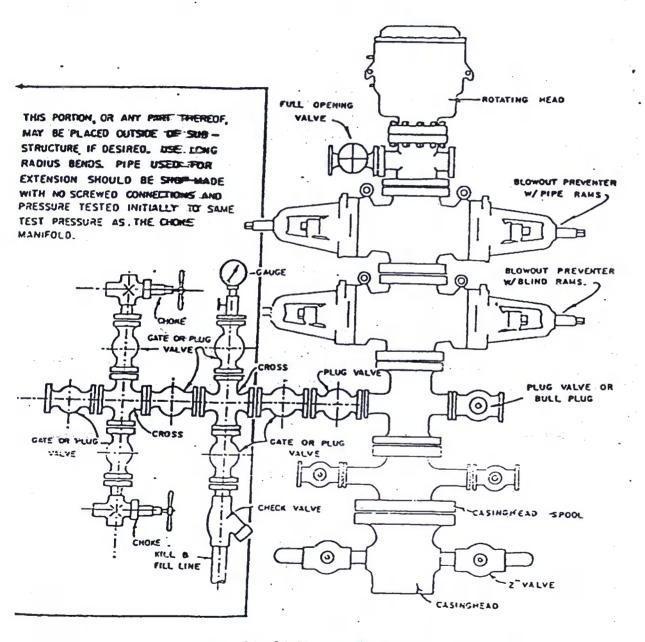
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ENERGY AND MINERALS DEPARTMENT

SANTA FE, NEW MEXICO 87501 as boundaries of the Section

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- 1. Blowout Preventers and Master Valve to be fluid operated, and all fittings must be in good condition.
- 2. Equipment through which bit must pass shall be as large as the inside diameter of the casing that is being drilled through.
- 3. Nipple above Blowout Preventer shall be same size or larger than BOP being drilled through.
- 4. All fittings to be flanged.
- 5. Omsco or comparable safety valve must be available on rig floor at all times with proper connection or sub. The I.D. of safety valve should be as great as I.D. of tool joints of drill pipe, or at least as great as I.D. of drill collars.



# BLOWOUT PREVENTER HOOKUP

### API Series # 900

EXHIBIT D-4 OCTOBER 16,1965

Operation of BOP by closing both pipe and blind rans will be tested each trip or, on long bit runs, pipe rest will be closed once each 24 hours.



1

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

### 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 Schneider Gas Com C 1 Jacquez Gas Com F 1 Sullivan Gas Com 1A Hubbard A 1E Dakota Pool Dakota Pool Dakota Pool Mesaverde Mesaverde



NM - 48 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



PAY TO THE ORDER OF

BP America Production Company 509 South Boston Tulsa, OK 74103

No. 0800552148 62-20 311

02/19/03

\$\$\$\$\$\$\$\$\$\$\$\$**\$**\$\$125.00 NOT VALID AFTER 6 MONTHS

STATE OF NEW MEXICO 2040 PACHEO ST SANTA FE NM 87505

One Hundred Twenty Five and 00/100 Dollars

TRACE NO.: 2000040613

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AUTHORIZED SIGNATURE

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

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

> CASE NO. 7608 Order No. R-7047

APPLICATION OF TENNECO OIL COMPANY FOR DESIGNATION OF A TIGHT FORMATION, SAN JUAN COUNTY, NEW MEXICO.

### ORDER OF THE DIVISION

### BY THE DIVISION:

This cause came on for hearing at 9 a.m. on June 9, 1982, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this <u>9th</u> day of August, 1982, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

### FINDS:

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

(2) That the applicant, Tenneco Oil Company, requests that the Division in accordance with Section 107 of the Natural Gas Policy Act of 1978 and 18 C.F.R. §271.701-703 recommend to the Federal Energy Regulatory Commission (FERC) that the Basin-Dakota formation underlying certain lands in San Juan County, New Mexico, as described on Exhibit "A" attached to this order, hereinafter referred to as the Basin-Dakota formation, be designated as a tight formation in the Federal Energy Regulatory Commission's regulations.

(3) That the area proposed for tight formation designation lies within the horizontal limits of the Basin-Dakota Pool, which is a very large area previously defined and described by the Oil Conservation Division in San Juan County, New Mexico.

(4) That within the Basin-Dakota Pool are large areas of extensive development and large areas of very limited development. -2-Case No. 7608 Order No. R-7047

1

(5) That the Dakota formation has been approved for infill drilling which permits the subject area to be developed with one Dakota well on each quarter section or 160-acre tract.

(6) That the area for which tight formation designation is herein sought is comprised of standard sections and a large number of irregularly shaped sections.

(7) That the total potential number of wells required to fully develop said area with an original well and an infill well on each proration unit (standard or non-standard size) is approximately 952.

(8) That at the time of the hearing a total of 111 wells had been drilled in the area, 87 of which were producers or 12 percent and 9 percent, respectively, of the potential drillable wells.

(9) That no proration unit within the proposed area contains an infill well.

(10) That the area proposed for tight formation designation is a largely undeveloped area.

(11) That the application excluded from consideration three small areas or windows consisting of the following described sections:

Area No. 1 <u>TOWNSHIP 30 NORTH, RANGE 8 WEST, NMPM</u> Sections 3, 4, and 5: All <u>TOWNSHIP 31 NORTH, RANGE 8 WEST, NMPM</u> Section 32: All Area No. 2

TOWNSHIP 31 NORTH, RANGE 9 WEST, NMPM Sections 27 and 28: All

Area No. 3

TOWNSHIP 30 NORTH, RANGE 8 WEST, NMPM Section 35: All

(12) That there was no evidence available as to the in situ gas permeability or unstimulated gas well production within said areas. Ä

-3-Case No. 7608 Order No. R-7047

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(13) That these areas were excluded from consideration by the applicant solely due to anomolous production considered to be of limited extent and unexplainable by ordinary engineering and geological examination.

(14) That the Basin-Dakota formation underlies all of the lands described in Exhibit "A"; that the formation consists of transgressive sands which exhibit poor grain sorting and high silt and clay content due to the processes of the depositional environments; that the top of the formation is found at an average depth of 7575 feet below the surface; and that the gross thickness of productive sand is approximately 250-300 feet.

(15) That the type section for the Basin-Dakota formation is described as that 400 foot interval found below a depth of 7251 feet as found on the Induction-Electrical and Gamma Ray log from the El Paso Natural Gas Gartner Well No. 9 located in the NE/4 of Section 33, Township 30 North, Range 8 West, San Juan County, New Mexico.

(16) That the technical evidence presented in this case demonstrated that no well formerly or currently completed in the Basin-Dakota formation within the proposed area exhibited permeability, gas productivity, or crude oil productivity in excess of the following parameters:

- (a) average in situ gas permeability throughout the pay section of 0.1 millidarcy; and
- (b) stabilized gas production rate, without stimulation, against atmospheric pressure, of 336 MCFPD, the FERC maximum allowable gas production rate for an average formation depth of 7575 feet; and
- (c) crude oil production rate of 5 barrels per day.

(17) That the technical evidence presented in this case demonstrated that the predominant percentage of wells which may be completed in the Dakota formation within the proposed tight formation area may reasonably be presumed to exhibit permeability, gas productivity, or crude oil productivity not in excess of the above described parameters.

(18) That within the proposed area there is a recognized aquifer being the Ojo Alamo, found at depths of 5000 to 6000 feet above the Dakota formation. -4-Case No. 7608 Order No. R-7047

(19) That existing State of New Mexico and Federal Regulations relating to casing and cementing of wells will assure that development of the Dakota formation will not adversely affect any overlying aquifers.

(20) That the area described on Exhibit "A" to this order should be recommended to the Federal Energy Regulatory Commission for designation as a tight formation.

### 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. §271.703 of the regulations that the Dakota formation underlying those lands in San Juan County, New Mexico, described on Exhibit "A" to this order, be designated as a tight formation.

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

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

STATE OF NEW MEXICO OIL CONSERVATION DIVISION JOE D. RAMEY Director

SEAL

TOWNSHIP 32 NORTH, RANGE 7 WEST, NMPM Sections 7 through 9: All Sections 16 through 21: All Sections 25 through 36: All TOWNSHIP 32 NORTH, RANGE 8 WEST, NMPM Sections 7 through 36: All TOWNSHIP 32 NORTH, RANGE 9 WEST, NMPM Sections 7 through 36: All TOWNSHIP 31 NORTH, RANGE 8 WEST, NMPM Sections 1 through 31: All Sections 33 through 36: All TOWNSHIP 31 NORTH, RANGE 9 WEST, NMPM Sections 1 through 26: All Sections 29 through 36: All TOWNSHIP 30 NORTH, RANGE 8 WEST, NMPM Sections 1 and 2: All Sections 6 through 34: All Section 36: All TOWNSHIP 30 NORTH, RANGE 9 WEST, NMPM Sections 1 through 30: All Sections 35 and 36: All TOWNSHIP 30 NORTH, RANGE 10 WEST, NMPM Sections 1 through 18: All Section 24: All

TOWNSHIP 29 NORTH, RANGE 8 WEST, NMPM Sections 1 through 6: All

TOWNSHIP 29 NORTH, RANGE 9 WEST, NMPM Sections 1 and 2: All

Containing a total of 149,760 acres, more or less.

EXHIBIT "A" Case No. 7608 Order No. R-7047

### UNITED STATES OF AMERICA FEDERAL ENERGY REGULATORY COMMISSION

### 18 C.F.R. Part 271

High-Cost Gas Produced from Tight Formations; Notice of Proposed Rulemaking

Docket No. RM79-76-139 (New Mexico-18)

OIL CONSERVATION

- AGENCY : Federal Energy Regulatory Commission
- ACTION : Notice of Proposed Rulemaking
- 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.F.R. § 271.703). This rule established procedures for jurisdictional agencies to submit to the Commission recommendations of areas for designation as tight formations. This Notice of Proposed Rulemaking by the Director of the Office of Pipeline and Producer Regulation contains the recommendation of the State of New Mexico that the Basin-Dakota Formation be designated as a tight formation under § 271.703(d).

### DATE : Comments on the proposed rule are due on November 8, 1982.

Public

- Hearing : No public hearing is scheduled in this docket as yet. Written requests for a public hearing are due on October 7, 1982.
- ADDRESS : Comments and requests for hearing must be filed with the Office of the Secretary, 825 North Capitol Street, N. E., Washington, D.C. 20426.

FOR FURTHER INFORMATION CONTACT :

Leslie Lawner, (202) 357-8511, or Victor Zabel, (202) 357-8616

### UNITED STATES OF AMERICA FEDERAL ENERGY REGULATORY COMMISSION

High-Cost Gas Produced from Tight Formations

) ) )

Docket No. RM79-76-139 (New Mexico-18)

NOTICE OF PROPOSED RULEMAKING BY DIRECTOR, OPPR

(Issued September 22, 1982)

# SEP 28 1982

### I. BACKGROUND

On August 26, 1982, the State of New Mexico Energy and Minerals Department, Oil Conservation Division (New Mexico) submitted to the Commission a recommendation, in accordance with § 271.703 of the Commission's regulations (45 Fed. Reg. 56034, August 22, 1980), that the Basin-Dakota Formation located in San Juan County, New Mexico, be designated as a tight formation. Pursuant to § 271.703(c)(4) of the regulations, this Notice of Proposed Rulemaking is hereby issued to determine whether New Mexico's recommendation that the Basin-Dakota Formation be designated a tight formation should be adopted. The United States Department of the Interior, Minerals Management Service (formerly the U.S. Geological Survey) concurs with New Mexico's recommendation. New Mexico's recommendation and supporting data are on file with the Commission and are available for public inspection.

### II. DESCRIPTION OF RECOMMENDATION

The Basin-Dakota Formation is defined as that interval including the Graneros, Dakota, and Morrison Formations found below a depth of 7,251 feet as indicated on the Induction-Electrical and Gamma Ray log from the El Paso Natural Gas Gartner No. 9 well. The average depth to the top of the Basin-Dakota is 7,575 feet. The gross thickness of the formation varies from 250 to 300 feet. New Mexico Order No. R-1670-V, issued on Mary 22, 1979, authorized infill drilling in the Basin-Dakota Gas Pool. Accordingly, certain portions of the recommended area may be subject to exclusion pursuant to \$ 271.703(c)(2)(i)(D) of the Commission's regulations.

### III. DISCUSSION OF RECOMMENDATION

New Mexico claims in its submission that evidence gathered through information and testimony presented at a public hearing in Case No. 7608 convened by New Mexico on this matter demonstrates that:

(1) The average in situ gas permeability throughout the pay section of the proposed area is not expected to exceed 0.1 millidarcy;

(2) The stabilized production rate, against atmospheric pressure, of wells completed for production from the recommended formation, without stimulation, is not expected to exceed the maximum allowable production rate set out in § 271.703(c)(2)(i)(B); and

(3) No well drilled into the recommended formation is expected to produce more than five (5) barrels of oil per day.

New Mexico further asserts that existing State and Federal Regulations assure that development of this formation will not adversely affect any fresh water aquifers.

Accordingly, pursuant to the authority delegated to the Director of the Office of Pipeline and Producer Regulation by Commission Order No. 97, issued in Docket No. RM80-68 (45 Fed. Reg. 53456, August 12, 1980), notice is hereby

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given of the proposal submitted by New Mexico that the Basin-Dakota Formation, as described and delineated in New Mexico's recommendation as filed with the Commission, be designated as a tight formation pursuant to § 271.703.

### IV. PUBLIC COMMENT PROCEDURES

Interested persons may comment on this proposed rulemaking by submitting written data, views or arguments to the Office of the Secretary, Federal Energy Regulatory Commission, 825 North Capitol Street, N. E., Washington, D.C. 20426, on or before November 8, 1982. Each person submitting a comment should indicate that the comment is being submitted in Docket No. RM79-76-139 (New Mexico-18), and should give reasons including supporting data for any recommendations. Comments should include the name, title, mailing address, and telephone number of one person to whom communications concerning the proposal may be addressed. An original and 14 conformed copies should be filed with the Secretary of the Commission. Written comments will be available for public inspection at the Commission's Division of Public Information, Room 1000, 825 North Capitol Street, N. E., Washington, D.C., during business hours.

Any person wishing to present testimony, views, data, or otherwise participate at a public hearing should notify the Commission in writing of the desire to make an oral presentation and therefore request a public hearing. Such request shall specify the amount of time requested at the hearing. Requests should be filed with the Secretary of the Commission no later than October 7, 1982.

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### List of Subjects in 18 C.F.R. Part 271:

Natural gas, Incentive price, Tight formations.

(Natural Gas Policy Act of 1978, 15 U.S.C. §§ 3301 - 3432.)

Accordingly, the Commission proposes to amend the regulations in Part 271, Subchapter H, Chapter I, Title 18, <u>Code of Federal Regulations</u>, as set forth below, in the event New Mexico's recommendation is adopted.

(SEAL)

Menneth A. Williams Director, Office of Pipeline and Producer Regulation Section 271.703(d) is revised by adding new subparagraph (139) to read as follows:

§ 271.703 Tight formations.

(d) Designated tight formations.

(109) through (138) [RESERVED]

(139) Basin-Dakota Formation in New Mexico. RM79-76-139 (New Mexico-18).

(i) <u>Delineation of formation</u>. The Basin-Dakota Formation is located in San Juan County, New Mexico, in Township 32 North, Range 7 West, Sections 7, 8, 9, 16 through 21, and 25 through 36; Township 32 North, Range 8 West, Sections 7 through 36; Township 32 North, Range 9 West, Sections 7 through 36; Township 31 North, Range 8 West, Sections 1 through 31, and 33 through 36; Township 31 North, Range 9 West, Sections 1 through 26, and 29 through 36; Township 30 North, Range 8 West, Sections 1, 2, 6 through 34, and 36; Township 30 North, Range 9 West, Sections 1 through 30, 35 and 36; Township 30 North, Range 10 West, Sections 1 through 18 and 24; Township 29 North, Range 8 West, Sections 1 through 6; Township 29 North, Range 9 West, Sections 1 and 2, NMPM.

(ii) <u>Depth</u>. The Basin-Dakota Formation is defined as that interval including the Graneros, Dakota, and Morrison Formations found below a depth of 7,251 feet as indicated on the Induction-Electrical and Gamma Ray log from the El Paso Natural Gas Gartner No. 9 well. The average depth to the top of the Basin-Dakota Formation is 7,575 feet. Gross thickness of the Basin-Dakota Formation ranges from 250 to 300 feet. 32,288

### Proposed Regulations

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### ¶ 32,250 High-Cost Gas Produced From Tight Formations (New Mexico-18)

47 F.R. 42583 (September 28, 1982). 18 CFR Part 271

High-Cost Gas Produced From Tight Formations; Notice of Proposed Rulemaking

AGENCY: Federal Energy Regulatory Commission, DOE.

ACTION: Notice of proposed rulemaking.

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 Notice of Proposed Rulemaking by the Director of the Office of Pipeline and Producer Regulation contains the recommendation of the State of New Mexico that the Basin-Dakota Formation be designated as a tight formation under § 271.703(d).

**DATE:** Comments on the proposed rule are due on November 8, 1982.

**PUBLIC HEARING:** No public hearing is scheduled in this docket as yet. Written requests for a public hearing are due on October 7, 1982.

**ADDRESS:** Comments and requests for hearing must be filed with the Office of the Secretary, 825 North Capitol Street, N.E., Washington, D.C. 20426.

# FOR FURTHER INFORMATION CONTACT:

Leslie Lawner, (202) 357-8511, or Victor Zabel, (202) 357-8616.

Issued: September 22, 1982.

### I. Background

On August 26, 1982, the State of New Mexico Energy and Minerals Department, Oil Conservation Division (New Mexico) submitted to the Commis-

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sion a recommendation, in accordance. with §271.703 of the Commission's regulations (45 FR 56034, August 22, 1980), that the Basin-Dakota Formation located in San Juan County, New Mexico, be designated as a tight formation. Pursuant to  $\S271.703(c)(4)$  of the regulations, this Notice of Proposed Rulemaking is hereby issued to determine whether New Mexico's recommendation that the Basin-Dakota Formation be designated a tight formation should be. adopted. The United States Department of the Interior, Minerals Management Service (formerly the U.S. Geological Survey) concurs with New Mexico's recommendation. New Mexico's recommendation and supporting data are on file with the Commission and are available for public inspection.

### II. Description of Recommendation

The Basin-Dakota Formation is defined as that interval including the Graneros, Dakota, and Morrison Formations found below a depth of 7,251 feet as indicated on the Induction-Electrical and Gamma Ray log from the El Paso Natural Gas Gartner No. 9 well. The average depth to the top of the Basin-Dakota is 7,575 feet. The gross thickness of the formation varies from 250 to 300 feet.

New Mexico Order No. R-1670-V, issued on May 22, 1979, authorized infill drilling in the Basin-Dakota Gas Pool. Accordingly, certain portions of the recommended area may be subject to e x c l u s i o n p u r s u a n t t o§ 271.703(c)(2)(i)(D) of the Commission's regulations.

### III. Discussion of Recommendation

New Mexico claims in its submission that evidence gathered through information and testimony presented at a public hearing in Case No. 7608 convened by New Mexico on this matter demonstrates that:

(1) The average in situ gas permeability throughout the pay section of the proposed area is not expected to exceed 0.1 millidarcy;

(2) The stabilized production rate, against atmospheric pressure, of wells completed for production from the recommended formation, without

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stimulation, is not expected to exceed the maximum allowable production rate set out in § 271.703(c)(2)(i)(B); and

(3) No well drilled into the recommended formation is expected to produce more than five (5) barrels of oil per day.

New Mexico further asserts that existing State and Federal Regulations assure that development of this formation will not adversely affect any fresh water aquifers

Accordingly, pursuant to the authority delegated to the Director of the Office of Pipeline and Producer Regulation by Commission Order No. 97, issued in Docket No. RM80-68 (45 FR 53456, August 12, 1980), notice is hereby given of the proposal submitted by New Mexico that the Basin-Dakota Formation, as described and delineated in New Mexico's recommendation as filed with the Commission, be designated as a tight formation pursuant to § 271.703.

**IV.** Public Comment Procedures

Interested persons may comment on this proposed rulemaking by submitting written data, views or arguments to the Office of the Secretary, Federal Energy Regulatory Commission, 825 North Capitol Street, N.E., Washington D.C. 20426, on or before November 8, 1982. Each person submitting a comment should indicate that the comment is being submitted in Docket No. RM79-76-139 (New Mexico-18), and should give reasons including supporting data for any recommendations. Comments should include the name, title, mailing address, and telephone number of one person to whom communications concerning the proposal may be addressed. An original and 14 conformed copies should be filed with the Secretary of the Commission. Written comments will be available for public inspection at the Commission's Division of Public Information, Room 1000, 825 North Capitol Street, N.E., Washington, D.C., during business hours.

Any person wishing to present testimony, views, data, or otherwise participate at a public hearing should notify the Commission in writing of the desire to make an oral presentation and therefore request a public hearing. Such request shall specify the amount of time requested at the hearing. Requests should

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be filed with the Secretary of the Commission no later than October 7, 1982.

### List of Subjects in 18 CFR Part 271

Natural gas, Incentive price, Tight formations.

(Natural Gas Policy Act of 1978, 15 U.S.C. 3301-3432)

Accordingly, the Commission proposes to amend the regulations in Part 271, Subchapter H, Title 18, Code of Federal Regulations, as set forth below, in the event New Mexico's recommendation is adopted.

### Kenneth A. Williams,

Director, Office of Pipeline and Producer Regulation.

### PART 271-CEILING PRICES

Section 271.703(d) is revised by adding new subparagraph (139) to read as follows:

### § 271.703 Tight formations.

\*\*\*\*

(d) Designated tight formations. \* \* \* \* \*

### (109) through (138) [Reserved]

(139) Basin-Dakota Formation in New Mexico. RM79-76-139 (New Mexico-18).

(i) Delineation of formation. The Basin-Dakota Formation is located in San Juan County, New Mexico, in Township 32 North, Range 7 West, Sections 7, 8, 9, 16 through 21, and 25 through 36; Township 32 North, Range 8 West, Sections 7 through 36; Township 32 North, Range 9 West, Sections 7 through 36; Township 31 North, Range 8 West, Sections 1 through 31, and 33 through 36; Township 31 North, Range 9 West, Sections 1 through 26, and 29 through 36; Township 30 North, Range 8 West, Sections 1, 2, 6 through 34, and 36; Township 30 North, Range 9 West, Sections 1 through 30, 35 and 36; Township 30 North, Range 10 West, Sections 1 through 18 and 24; Township 29 North, Range 8 West, Sections 1 through 6; Township 29 North, Range 9 West, Sections 1 and 2, NMPM.

(ii) Depth. The Basin-Dakota Formation is defined as that interval including the Graneros, Dakota, and Morrison Formations found below a depth of 7,251 feet as indicated on the Induction-Electrical and Gamma Ray log

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# Proposed Regulations

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from the El Paso Natural Gas Gartner No. 9 well. The average depth to the top of the Basin-Dakota Formation is 7,575 feet. Gross thickness of the Basin Dakota Formation ranges from 250 to 300 feet.

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### UNITED STATES OF AMERICA FEDERAL ENERGY REGULATORY COMMISSION

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

High-Cost Gas Produced from Tight Formations; Final Rule

### Docket No. RM79-76-139 (New Mexico - 18)

### ORDER NO. 283

### (Issued Pebruary 22, 1983)

### AGENCY : Federal Energy Regulatory Commission

ACTION : Final rule

SUMMARY: The Pederal Regulatory Energy 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 condithe Commission determines that the gas is produced under condi-tions 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.F.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 a portion of the Basin-Dakota Formation located in San Juan County, New Mexico be designated as a tight formation under § 271.703(d).

### EFFECTIVE DATE : This rule is effective Pebruary 22, 1983.

FOR FURTHER INFORMATION CONTACT : Jane Oliver, (202) 357-8316 or Victor Zabel, (202) 357-8616.

### UNITED STATES OF AMERICA FEDERAL ENERGY REGULATORY COMMISSION

Before Commissioners: C. M. Rutler III, Chairman J. David Hughes, A. G. Sout J. David Hughes, A. G. Sou and Oliver G. Richard III. OUBa

High-Cost Gas Produced from Tight Formations

Docket No. RM79-76-139 (New Mexico - 18)

### ORDER NO. 283

### PINAL RULE

### (Issued February 22, 1983)

The Commission hereby amends \$ 271.703(d) of its regulations to include a portion of the Basin-Dakota Pormation located in San Juan County, New Maxico, 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 September 22, 1982 (47 Ped. Reg. 42583, September 28, 1982), 1/ 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 certain areas of the Basin-Dakota Formation be designated as a tight formation.

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Docket No. RM79-76-139 - 2 -

The recommended area is subject to New Mexico Order No. R-1670-V which authorizes infill drilling in the Basin-Dakota gas pool.  $\frac{2}{2}$  Section 271.703(c)(2)(i)(D) of the Commission's regulations requires an exclusion from the

designation of tight formations where:

Infill drilling is defined in \$ 271.703(b)(6) as any drilling in a substantially developed formation (or a 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. Thus, if the formation was substantially developed at the time that New Mexico Order No. R-1670-V was issued on May 22, 1979, and if information exists which indicates that the area can be developed absent the incentive price, then the entire recommended area or portions thereof should be excluded from the tight formation designation.

Docket No. RM79-76-139 - 3 -

There were 952 available drilling units in the recommended area at the time the infill order was issued on May 22, 1979. Only 45 of the 952 units were developed at that time; that is, only 4.8 percent of the recommended formation was developed according to the 320-acre proration units in existence prior to the infill order. The Commission finds that this does not constitute "substantial development" as it appears in the definition of infill drilling in \$ 271.703(b)(6). Accordingly, no areas need be excluded from New Mexico's recommendation under \$ 271.703(c)(2)(i)(D).

Evidence submitted by New Mexico supports the assertion that portions of the Basin-Dakota Formation meet the guidelines contained in \$ 271.703(c)(2). 3/ 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,

The notice established a 45-day period for submission of written comments. One comment in support of the recom-mendation was received. The United States Department of Interior, Minerals Management Service (formerly the U.S. Geological Survey) concurs with New Mexico's recommendation. 1/

the formation or any portion thereof was authorized to be developed by infill drilling prior to the date of recommen-dation and the juriadictional agency (New Mexico) has information which in its judgment indicates that such information or portion subject to infill drilling can be developed absent the incentive price established established ....

Order No. R-1670-V permitted the drilling of an additional well in each 320-acre unit in the Basin-Dakota pool. Prio to this order only one gas well could produce from every 320-acre unit. 2/

In its recommendation, New Mexico excluded three areas within the geological borders of the recommended area. New Mexico noted that there was "no evidence available as to the in situ gas permeability or unstimulated gas well production within said areas...", and "that these areas were excluded from consideration by the application solely due to anomalous production considered to be of limited extent and unexplainable by ordinary engineering and geological examination." Accordingly, the Commission is not considering those areas which New Mexico excluded 3/ is not considering those areas which New Mexico excluded in its recommendation.

### Docket No. RM79-76-139 - 4

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 C.P.R Part 271:

Natural gas, Incentive price, Tight formations.

(Department of Energy Organization Act, 42 U.S.C. \$\$ 7101 <u>et acg</u>.; Natural Gas Policy Act of 1978, 15 U.S.C. <u>\$</u>\$ 301-3432; Administrative Procedure Act, 5 U.S.C. <u>\$</u> 553.)

In consideration of the foregoing, Part 271 of Subchapter H, Chapter I, <u>Code of Pederal Regulations</u>, is amended as set forth below, effective Pebruary 22, 1983.

By the Commission.

(SEAL)

Kenneth F. Fland Secretary. Docket No. RM79-76-139 - 5 -

Section 271.703(d) is amended by adding subparagraph (120) to read as follows:

\$ 271.703 Tight formations.

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# (d) Designated tight formations.

(120) Basin-Dakota Pormation in New Mexico. RM79-76-139 (New Mexico - 18).

(i) <u>Delineation of formation</u>. The Basin-Dakota Pormation is located in San Juan County, New Mexico, in Township 32 North, Range 7 West, Sections 7, 8, 9, 16 through 21, and 25 through 36; Township 32 North, Range 8 West, Sections 7 through 36; Township 32 North, Range 9 West, Sections 7 through 36; Township 31 North, Range 9 West, Sections 1 through 36; Township 31 North, Range 9 West, Sections 1 through 26, and 29 through 36; Township 30 North, Range 8 West, Sections 1, 2, 6 through 34, and 36; Township 30 North, Range 9 West, Sections 1 through 30, 35 and 36; Township 30 North, Range 10 West, Sections 1 through 18 and 24; Township 29 North, Range 8 West, Sections 1 through 6; Township 29 North, Range 9 West, Sections 1 and 2, NMPM.

(ii) Depth. The Basin-Dakota Pormation is defined as that interval including the Grameros, Dakota, and Morrison Pormations, and is found below a depth of 7,251 feet as indicated on the Induction-Electrical and Gamma Ray log from the El Paso Natural Gas Gartner No. 9 Well. The average depth to the top of the Basin-Dakota Pormation is 7,575 feet. Gross thickness of the Basin-Dakota Pormation ranges from 250 to 300 feet.

enhanced surveillance from those firms which may require closer scrutiny. The Division also wishes to emphasize that it views the role of the NFA, especially with respect to the financial surveillance of FCMs which are not members of any commodity exchange, as a necessary supplement to the Division's own regulatory efforts and oversight function. The Division believes that it is important to work closely with NFA in order to reach common goals, such as in the area of financial surveillance. The Division further believes that the written notification from NFA described above will allow NFA to continue its present membership approval policy and also allow the Division to determine that an FCM applicant has demonstrated affirmatively its compliance with minimum financial requirements when such an FCM applicant is not a member of a commodity exchange but has at least \$50,000 of adjusted net capital and will become an NFA member immediately upon the granting of registration by the Commission.

Accordingly, the Division has determined that, in the case of an applicant for registration as an FCM which is not a member of a commodity exchange but which has an application for membership pending with NFA, such applicant will be deemed to have demonstrated affirmatively its compliance with the minimum financial requirement for FCMs under the following conditions:

1. The applicant has minimum adjusted net capital of at least \$50.000, and

2. NFA submits a written notification to the Division stating that the FCM applicant has been cleared for NFA membership and will become an FCM member of NFA concurrently with notification by the Division that such FCM applicant has been granted registration by the Division as an FCM.

Of course, the Division will not grant registration to any FCM applicant until all other Commission requirements for FCM registration are satisfied.

By the Division of Trading and Markets. Dated: February 23, 1983.

Andrea M. Corcoran,

Director, Division of Trading and Markets.

(FR Doc. 63-5150 Filed 2-28-83; 8:45 am) BILLING CODE 6351-01-M

### DEPARTMENT OF ENERGY

Federal Energy Regulatory Commission

18 CFR Part 271

[Docket No. RN79-76-139 (New Mexico-18]; Order No. 283]

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

Issued: February 22, 1983.

AGENCY: Federal Energy Regulatory Commission, DOE.

### ACTION: Final rule.

**SUMMARY:** The Federal Regulatory Energy 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 a portion of the Basin-Dakota Formation located in San Juan County, New Mexico be designated as a tight formation under § 271.703(d).

**EFFECTIVE DATE:** This rule is effective February 22, 1983.

FOR FURTHER INFORMATION CONTACT: Jane Oliver, (202) 357–8316 or Victor Zabel, (202) 357–8816.

### SUPPLEMENTARY INFORMATION:

The Commission hereby amends § 271.703(d) of its regulations to include a portion of the Basin-Dakota Formation located 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 September 22, 1982 (47 FR 42583, September 28, 1982),<sup>1</sup> based on a recommendation by the State of Mew Mexico Energy and Minerals Department, Oil Conservation Division (New Mexico) in accordance with \$ 271.703, that certain areas of the Basin-Dakota Formation be designated as a tight formation.

The recommended area is subject to New Mexico Order No. R-1670-V which authorizes infill drilling in the Basin-Dakota gas pool.<sup>2</sup> Section 271.703(c)(2)(i)(D) of the Commission's regulations requires an exclusion from the designation of tight formations where:

the formation or any portion thereof was authorized to be developed by infill drilling prior to the date of recommendation and the jurisdictional agency [New Mexico] has information which in its judgment indicates that such information or portion subject to infill drilling can be developed absent the incentive price established \* \* \*.

Infill drilling is defined in § 271.703(b)(6) as any drilling in a substantially developed formation (or a 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. Thus, if the formation was substantially developed at the time that New Mexico Order No. R-1670-V was issued on May 22, 1979, and if information exists which indicates that the area can be developed absent the incentive price, then the entire recommended area or portions thereof should be excluded from the tight formation designation.

There were 952 available drilling units in the recommended area at the time the infill order was issued on May 22, 1979. Only 45 of the 952 units were developed at that time; that is, only 4.8 percent of the recommended formation was developed according to the 320-acre proration units in existence prior to the infill order. The Commission finds that this does not constitute "substantial development" as it appears in the definition of infill drilling in § 271.703(b)(6). Accordingly, no areas need be excluded from New Mexico's recommendation under

§ 271.703(c)(2)(i)(D).

Evidence submitted by New Mexico supports the assertion that portions of the Besin-Dakota Formation meet the guidelines contained in § 271.703(c)(2).<sup>3</sup>

<sup>3</sup> In its recommendation, New Mexico excluded three areas within the geological borders of the

<sup>&</sup>lt;sup>1</sup>The notice established a 45-day period for submission of written comments. One comment in support of the recommendation was received. The United States Department of Interior, Minerals Management Service (formerly the U.S. Geological Survey), concurs with New Mexico's recommendation.

<sup>&</sup>lt;sup>2</sup>Order No. R-1670-V permitted the drilling of an additional well in each 320-acre unit in the Basin-Dako:a pool. Prior to this order only one gas well could produce from every 320-acre unit.

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Township 18 North, Range 1 East; Township 18 North, Range 1 West through 5 West.

(ii) Depth. The Gray Sand in the Smackover Formation is defined as that formation occurring between the measured depths of 11,000 and 11,570 feet on the induction electric log of the Sun Oil Company—Northcott No. 2 Well, located in Section 29, Township 22 North, Range 11 West, Bossier Parish.

(118) Medina Group and Queenston Shale in New York. RM79-76-118 (New York-2).

(i) Delineation of formation. The Medina Group and Queenston Shale are found in Erie, Genesee, Wyoming, Allegany, Livingston, Ontario, Yates, Seneca, Cayuga, and Tompkins Counties, New York. Excluded from the delineated Medina-Queenston interval are any Medina gas storage areas, including buffer zones, or any areas within Medina or Queenston "existing fields" (as defined in Title 6, New York Code of Rules and Regulations, Section 350.3(q)). The Medina Group (also known as the Albion Group) is of Early Silurian age and overlies the Upper Ordovician Queenston Shale (called the "red shale" by some drillers). The Medina Group is bounded above by the base of the Thorold Formation or the time equivalent Kodak Sandstone. The Medina Group consists of (from base to top) the Whirlpool Sandstone (called "white Medina" by drillers), the Power Glen Shale (also known as the Cabot Head Shale), and the Grimsby Sandstone (called "red Medina" by drillers). The Queenston Shale has a gradational contact with the underlying Oswego Sandstone.

(ii) Depth. The depth to the top of the Medina Group varies from less than 1,000 feet in the northwestern portion of the designated area to as much as 5,500 feet in the southeastern portion. The Medina Group ranges in thickness from approximately 60 to 120 feet. The thickness of the Queenston Shale is indefinite due to the transitional nature of its contact with the underlying Oswego Sandstone, but the Queenston-Oswego sequence ranges in a thickness from approximately 1,000 feet in Western New York to more than 1,300 feet in southern and central New York.

(119) Dakota Formation in Utah. RM79-76-074 (Utah-3). (i) Delineation of formation. The Dakota Formation is found in the Book Cliffs area of Grand and Uintah Counties, Utah, and is in the general area of Townships 15 South through 20 South and Ranges 16 East through 24 East.

(ii) Depth. The average depth to the top of the Dakota Formation is 6,034 feet. The Dakota Formation is defined as the interval from the top of the Dakota Silt down to the top of the Morrison Formation, a thickness of approximately 250 feet.

(120) Basin-Dakota Formation in New Mexico. RM79-76-139 (New Mexico-18). (i) Delineation of formation. The Basin-Dakota Formation is located in San Juan County, New Mexico, in Township 32 North, Range 7 West, Sections 7, 8, 9, 16 through 21, and 25 through 36; Township 32 North, Range 8 West, Sections 7 through 36; Township 32 North, Range 9 West, Sections 7 through 36, Township 31 North, Range 8 West, Sections 1 through 31, and 33 through 36; Township 31 North, Range 9 West, Sections 1 through 31, and 33 through 36; Township 31 North, Range 9 West, Sections 1 through 31, and 33 through 36; Township 31 North, Range 9 West, Sections 1 through 31, and 33 through 36; Township 31 North, Range 9 West, Sections 1 through 31, and 33 through 36; Township 31 North, Range 9 West, Sections 1 through 31, and 33 through 36; Township 31 North, Range 9 West, Sections 1 through 31, and 33 through 36; Township 31 North, Range 9 West, Sections 1 through 31, and 33 through 36; Township 31 North, Range 9 West, Sections 1 through 31, and 33 through 36; Township 31 North, Range 9 West, Sections 1 through 31, and 33 through 36; Township 31 North, Range 9 West, Sections 1 through 31, and 33 through 36; Township 31 North, Range 9 West, Sections 1 through 31, and 33 through 36; Township 31 North, Range 9 West, Sections 1 through 31, and 33 through 36; Township 31 North, Range 9 West, Sections 1 through 31, and 33 through 36; Township 31 North, Range 9 West, Sections 1 through 31, and 33 through 36; Township 31 North, Range 9 West, Sections 1 through 31, and 33 through 36; Township 31 North, Range 9 West, Sections 1 through 31, and 33 through 36; Township 31 North, Range 9 West, Sections 1 through 31, and 33 through 31 North, Range 9 West, Sections 1 through 31 North, Range 9 West, Sections 31 North, Range 9 West,

¶ 24.173 § 271.703

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Regulations

26, and 29 through 36; Township 30 North, Range 8 West, Sections 1, 2, 6 through 34, and 36; Township 30 North, Range 9 West, Sections 1 through 30, 35 and 36; Township 30 North, Range 10 West, Sections 1 through 18 and 24; Township 29 North, Range 8 West, Sections 1 through 6; Township 29 North, Range 9 West, Sections 1 and 2, NMPM:

(ii) Depth. The Basin-Dakota Formation is defined as that interval including the Graneros, Dakota, and Morrison Formations, and is found below a depth of 7,251 feet as indicated on the Induction-Electrical and Gamma Ray log from the El Paso Natural Gas Gartner No. 9 Well. The average depth to the top of the Basin-Dakota Formation is 7,575 feet. Gross thickness of the Basin-Dakota Formation ranges from 250 to 300 feet.

(121) Atoka Formation in Oklahoma. RM79-76-131 (Oklahoma-4).--(i) Delineation of formation. The Atoka Formation of Pennsylvanian age is located in Washita County, Oklahoma, in Sections 6 and 7, Township 9 North, Range 19 West and Sections 1, 2, 3, 10, 11, and 12, Township 9 North, Range 20 West. It is bounded above by the base of the Pennsylvanian Des Moinesian Series, called "Cherokee Group" by drillers and below by the top of the Pennsylvanian Morrowan Series, called "Morrow Shale" by drillers.

(ii) Depth. The depth to the top of the designated interval varies from approximately 10,850 to 12,150 feet below mean sea level. Its thickness ranges from 2,200 to 2,800 feet.

(122) Garza Sand in Texas. RM79-76-141 (Texas-24).

(i) Delineation of Formation. The Garza Sand is found in Duval County, Texas. The designated area is located approximately 3 miles west of the city of Concepcion, Texas, in Railroad Commission District 4 and includes portions of the following surveys: Andres Garcia Heirs Survey, Abstract 657; Santos Flores Survey, Abstract 475; R. Ramirez Survey, Abstract 475; and Marcello Ynojosa Survey, Abstract 628.

(ii) Depth. The top of the Garza Sand ranges from a measured depth of -6,700 feet to approximately -7,400 feet subsea.

(123) Anacacho formation in Texas. RM79-76-145 (Texas-26).

(i) Delineation of formation. The Anacacho formation is located in the northwestern part of Atascosa County, Texas. Railroad Commission District 1 and is comprised of the following surveys: F. Brockinzen A-90, Abram Cole A-158 and A-159, W.J. Viser A-873 and A-874, Craner Ford A-247 and A-248, John C. Held A-368, John Sharp A-761, Robert C. Rogers A-721, J.S. Joline A-500, H.P. Benningfield A-97, Wm. H. Morris A-899, and Nepomucinco Flores A-244.

(ii) Depth. The Anacacho Formation in the Benton City Area is encountered at measured depths ranging from 1,600 feet to 2,100 feet.

(124) Mancos "B" Formation in Utah. RM79-76-155 (Utah-7).-(i) Delineation of formation. The Manco "B" Formation is located in Carbon County, Utah and comprises all of Township 12 South, Range 13 East, SLM.

(ii) Depth. The Mancos "B" Formation is a distinct lithologic unit of the Mancos Shale, occurring 200 and 300 feet below the top of the Mancos

§ 271.703 ¶ 24.173

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