CASE 6691: OCD ON ITS OWN MOTION TO CON-SIDER ADDITION OF RULE 10(D) TO ORDER NO. R-1670-T, SAN JUAN AND RIO ARRIBA COUNTIE THEW MEXICO

CASE NO.

6691

APPliCation, Transcripts, Small Exhibits,

ETC.

	1 STATE OF NEW MEXICO 2 ENERGY AND MINERALS DEPARTMENT 0il Conservation Division 3 State Land Office Bldg. 3 Santa Fe, New Mexico 2 October 1979 4 EXAMINER HEARING 5 IN THE MATTER OF: 7 The hearing called by the Oil Conser-) 8 vation Division on its own motion to) 9 consider the addition of a Rule 10(D)) CASE 9 to Order Number R-1670-T, Blanco 6691 9 Juan and Rio Arriba Counties, New)	
SALLY WALTON BOY CERTIFIED SHORTHAND REPOR 3028 Planta Blanca (1431-3 Santa Fe, New Mexico 371:	Mexico, to require that both wells on a proration unit be tested when an infill well has been completed. BEFORE: Richard L. Stamets TRANSCRIPT OF HEARING A P P E A R A N C E S	
	For the Oil Conservation Ernest L. Padilla, Esq. Division: Legal Counsel for the Division State Land Office Bldg. Santa Fe, New Mexico 87503	'n

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FRANK CHAVEZ

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Direct	Examination	by	Mr.	Padilla

Cross Examination by Mr. Stamets

EXHIBITS

Division Exhibit A, Amendment Division Exhibit B, Document

SALLY WALTON BOYD CERTIFIED SHORTHAND REPORTER 3020 Plaza Blanca (505) 171-345 Santa Fe, New Mexico 37501

MR. STAMETS: We'll call next Case 6691, 1 in the matter of the hearing called by the Oil Conservation 2 Division on its own motion to consider the addition of Rule 3 10(D), Order Number R-1670-T, Blanco Mesaverde Infill Drilling 4 Order, San Juan and Rio Arriba Counties, New Mexico, to re-5 quire that both wells on a proration unit be tested when an 6 infill well has been completed. 7 Call for appearances in this case. 8 MR. PADILLA: Ernest L. Padilla on behalf 9 10 of the Oil Conservation Division. I have one witness who 11 will have to be sworn. 12 MR. STAMETS: Are there any other appear-13 ances in this case? 14 I'd like to have the witness stand and be 15 sworn. 16 17 (Witness sworn.) 13 19 FRANK CHAVEZ

being called as a witness and having been duly sworn upon 21 his oath, testified as follows, to-wit:

DIRECT EXAMINATION

24 BY MR. PADILLA:

Q.

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ALLY WALTON

Would you state your name, by whom you're

1	employed and in what capacity?					
2	A. I am Frank Chavez. I'm employed by the					
3	New Mexico Oil Conservation Division, District III office					
4	in Aztec as a Field Representative.					
5	Q. Have you previously testified before the					
6	Division and are your credentials a matter of record before					
7	the Division?					
8	A. Yes, they are.					
9	Q. Are you familiar with the purpose of this					
10	case?					
11	A. Yes, I am.					
12	MR. PADILLA: Is the witness considered					
13	qualified, Mr. Stamets?					
14	MR. STAMETS: Yes, he is.					
15	Q. (Mr. Padilla continuing.) Mr. Chavez,					
16	would you state the purpose of this case?					
17	A. The purpose of this case is to add proposed					
18	Rule 10(D) to the Blanco Mesaverde Infill Rule, which is					
19	known as R-1670-T, and which was amended by R-1670-U.					
20	This rule will allow for the more equitable					
21	assignment of allowables to proration units where the pre-					
22	vious where you have a new well coming into the proration					
23	unit and the previous well has not been tested for some time.					
24	Q. Do you have a recommendation for at this					
25	time for amending Order Number R-1670-T?					
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SALLY WALTON BOYD CERTIFIED SHORTHAND REPORTER 2020 Plaza Blanca (505) 171-3452 Sunta Fe, New Marico 87501

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I recommend that the Exhibit A that A. Yes. is before the Examiner be admitted as an amendment to R-1670-T as amended by R-1670-U.

Exhibit Number B shows that recently one well, the El Paso Natural Gas Company Rincon Unit 97 and 97-A, which is -- I'm sorry, proration unit, was assigned an allowable in March based on deliverability test which was filed in 1972 on the Rincon Unit No. 97, and on the new initial deliverability test on the 97-A the allowable was 10 assigned on the revised deliverability of 322 Mcf of gas.

At the very bottom of the first page of Exhibit B is the revised over-produced status -- I'm sorry, underproduced status of this well as calculated on the supplement.

Page number two of Exhibit B shows the initial deliverability test of the Rincon Unit No. 87-A and page number three shows a deliverability which was calculated for the Rincon Unit No. 97, based on the average daily flow rate of this well for 1978 and on the average shutin and producing pressures of the offset wells.

This calculated deliverability decreased from the 1972 deliverability by 123 Mcf.

Using that recalculated deliverability the revised deliverability assigned to this proration unit, as shown on page four of the exhibit, would be 199 Mcf, as high-

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This shows a difference of 13,422 Mcf, which this difference would have had to be re-assigned to other wells once the allowables were -- the underage was reassigned.

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Mr. Chavez, is this proposed Rule 10, 0. would it be identical to the Rule 10(D) of Order Number R-1670-V for the Basin-Dakota Pool?

Yes, it is, word for word.

MR. PADILLA: I offer Exhibits A and B

into evidence.

A.

MR. STAMETS: These exhibits will be ad-

mitted.

MR. PADILLA: And I have nothing further

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~	1	of this witness.							
	2								
	3	CROSS EXAMINATION							
	4	BY MR. STAMETS:							
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	6	proposed Rule 10(D) indicates that if a test for the current							
	7	test period has been filed on the first drilling on the							
	8	unit, a second test will not be required, is that correct?							
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ND REP ND REP (17) (17)	11	of operators who've conducted recent tests with having to							
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	20	Anything further in this case?							
	21	The case will be taken under advisement.							
	22								
	23	(Hearing concluded.)							
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Page

REPORTER'S CERTIFICATE

I, SALLY W. BOYD, a court reporter, DO HEREBY CERTIFY that the foregoing and attached Transcript of Hearing before the Oil Conservation Division was reported by me; that the said transcript is a full, true, and correct record of the hearing, prepared by me to the best of my ability from my notes taken at the time of the hearing.

Sally M. Boyd, C.S.R.

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 6691 A 10-2 1979. heard by me on_ <u>Examiner</u>, Examiner schur Oil Conservation Division

SALLY WALTON BOYD CENTRIED SHONTHAND REPORTER 1010 Plaza Blanca (101) 471-346 Sadia Fo, New Mexico 87501 1

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INDEX FRANK CHAVEZ Direct Examination by Mr. Padilla Cross Examination by Mr. Stamets SALLY WALTON BOYD CERTIFIED SHORTHAND REPORTER 3030 Plaza Blanca (606) 471-2462 Santa Pe, New Medico 87501 EXHIBITS Division Exhibit A, Amendment 5. Division Exhibit B, Document

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1	employed and in what capacity?
2	A. I am Frank Chavez. I'm employed by the
3	New Mexico Oil Conservation Division, District III office
4	in Aztec as a Field Representative.
5	Q. Have you previously testified before the
8	Division and are your credentials a matter of record before
7	the Division?
8	A. Yes they are.
9	Q Are you familiar with the purpose of this
10	case?
11	A. Yes, I am.
12	MR. PADILLA: Is the witness considered
13	qualified, Mr. Stamets?
14	MR. STAMETS: Yes, he is.
15	Q (Mr. Padilla continuing.) Mr. Chavez,
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SALLY WALTON BOYD CERTIFIED SHORTHAND REPORTER 3020 Flaza Blanca (406) 171-5462 Santa Fe, New Mortice 87601

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Yes, it is, word for word.

MR. PADILLA: I offer Exhibits A and B

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MR. PADILLA: And I have nothing further

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REPORTER'S CERTIFICATE

I, SALLY W. BOYD, a court reporter, DO HEREBY CERTIFY that the foregoing and attached Transcript of Hearing before the Oil Conservation Division was reported by me; that the said transcript is a full, true, and correct record of the hearing, prepared by me to the best of my ability from my notes taken at the time of the hearing.

Sally W. Boyd, C.S.R.

I do hereby certify that the foregoing is a constant and the proceedings in u contract of the proceeding the the contracting of Case No. hears by a contracting of Case No. _, Examiner Oil Concervation Division

SALLY WALTON BOYD CERTIFIED SHORTHAND REPORTED

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION ON ITS OWN MOTION FOR THE PURPOSE OF CONSIDERING THE AMENDMENT OF DIVISION ORDER NO. R-1670-T.

> CASE NO. 6691 Order No. R-1670-T-B

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on October 2, 1979, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this <u>18th</u> day of October, 1979, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

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

(2) That an amended well test procedure should be adopted for the Blanco Mesaverde Pool, Rio Arriba and San Juan Counties, New Mexico, in order to permit the assignment of more appropriate allowables to proration units following completion of a second or "infill" well thereon.

(3) That such test procedure should be established by amending the Special Rules and Regulations for the Blanco Mesaverde Pool, as promulgated by Division Order No. R-1670 and as amended by Division Orders Nos. R-1670-T and R-1670-T-A, to include the following Special Rule 10(D):

<u>RULE 10 (D)</u>. Within ninety (90) days after gas from the second well on the unit is first delivered to a gas transportation facility, both wells on the unit shall have been tested in accordance with "Gas Well Testing Rules and Procedures - San Juan Basin, New Mexico" and the results of the test filed with the Division's Aztec office and with the gas transportation facility to which the well is connected. If a test for the current test -2-Case No. 6691 Order No. R-1670-T-B

> period has previously been filed for the first well on the unit, a second test of said well will not be required. Both tests will be treated as Initial Tests for purposes of assigning allowables to the unit. This rule shall apply to newly completed wells.

IT IS THEREFORE ORDERED:

(1) That the Special Rules and Regulations for the Blanco Mesaverde Pool as promulgated by Division Order No. R-1670 and amended by Division Orders Nos. R-1670-T and R-1670-T-A are hereby amended by the addition of the following Special Rule 10(D):

RULE 10 (D). Within ninety (90) days after gas from the second well on the unit is first delivered to a gas transportation facility, both wells on the unit shall have been tested in accordance with "Gas Well Testing Rules and Procedures - San Juan Basin, New Mexico" and the results of the test filed with the Division's Aztec office and with the gas transportation facility to which the well is connected. If a test for the current test period has previously been filed for the first well on the unit, a second test of said well will not be required. Both tests will be treated as Initial Tests for purposes of assigning allowables to the unit. This rule shall apply to newly completed wells.

(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 hereinaboyg designated.

STATE OF NEW MEXICO OIL CONSERVATION DIVISION 1 JOE D. RAMEY Director

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SEAL

EXHIBIT A Case No. 6691 us amanded by R 1670 U us amanded Ariba Counties,

<u>RILE 10 (D)</u> Within ninety (90) days after gas from the second well on the unit is first delivered to a gas transportation facility, both wells on the unit shall have been tested in accordance with "Gas Well Testing Rules and Procedures - San Juan Basin, New Mexico" and the results of the test filed with the Division's Aztec office and with the gas transportation facility to which the well is connected. If a test for the current test period has previously been filed for the first well on the unit, a second test of said well will not be required. Both tests will be treated as Initial Tests for purposes of assigning allowables to the unit. This rule shall apply to newly completed wells.

BEFORE EXAMINER STAMETS OIL CONSERVATION DIVISION EXHIBIT NO. A 6691 CASE NO.__ Submitted by 5. Of 10-7 Hearing Dale.

P. O. 110 X 2014 SANTA FE, NEW MEXICO 87501

DATE MAY 3 1 1979

NOTICE OF ASSIGNMENT OF ALLOWABLE TO A GAS WELL

ORIGINAL

The operator of the following well has complied with all the requirements of the Oil Conservation Division and the well is hereby assigned an allowable as shown below.

Date of Con-	nection	3-16-79	Date of	NXXXXXXXXXX	XXXIIowable Ch	iange3-16-79	
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August	· · · · · · · · · · · · · · · · · · ·			f		EXHIBIT NO. /S	
September	′]	[]			
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Note: All gas volumes are in MCF & 13.025 psia.

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JOE D. RAMEY, Division Director

By

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DATE OF FLOW TEST

FROM

WELL DELIVERABILITY JEST REPORT FOR 1979

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CASING

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Form C122-A Revised 8-77

7 FOOLNAME POOL SLOPE OPHATION Blanco Mesa Verde Rio Arriba .75 0 = 90-377 COMPANY WELL NAME AND NUMBER • El Paso Natural Gas Company Rincon Unit #97A PURCHASING PIPELINE SECTION UNITLEHER IOWNSHIP ANGE p 18 27 6 El Paso Natural Gas Co: SET AT DEPTH - FEET IG I.D. INCHES GID. INCHES OP - TUBING PERF. - FEET CASING O.D. - INCHES UBING O.D. . INCHES 7,000 6.456 3527 2.375 1.995 5790 DUCING THRU GRAVITY TY X LENGTH 4789 5822 TUBING XX DATE SHUT-IN PRESSURE MEASURED 4250 .734

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	(h) Correcti Prassure	ed Meter e (g+e)	(I) Avg. Wellteod Press. P ₁ = (h+f)	(i) Shut in Cosing Pressure (DWi)	(k) Shut-in Tubing Pressure (DWI)	(I) Pc=higher value of (j) or (k)	(m) Del. Pressure P <u>= 80 %</u> P	(n) Separator or De- hydrator Pr. (DWI) for criticol flow only
	2	261	287	566	428	566	452	

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 300	Quotient of Item d .9885	√ ^{Ilem c} ilem d .9942	$Q = \frac{\chi^{298}}{MCF/C}$
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WORKING PRESSURE CALCULATION

(I-e ^{-\$})	(F _c Q _m) ² (1000)	$R^2 = {}^{2}$ (1-e ⁻⁵) (F _c Q _m) (1000)	P1 ²	$P_{w}^{2} = P_{1}^{2} + R^{2}$	$P_w = \sqrt{P_w^2}$		
. 266	7850	2088	82369	84457	291		

	$D = Q \begin{bmatrix} \frac{P_{c}^{2} \cdot P_{d}^{2}}{P_{c}^{2} \cdot P_{h}^{2}} \end{bmatrix}^{n} =$	298	$\left(\begin{array}{c} 116052\\ 235899\end{array}\right)$.5874	=MCF/
•	REMARKS:	4.500" Liner 3 Initial and Annu SUMMARY		3-16-79		4



STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2900 SANTA FC, NEW MEXICO 87501

Forn C-122-A Revised 10-1-78

WELL DELIVERABILITY TEST REPORT FOR 19

1	POOL HAME	POOL	9107E	FORMATION	tounty
1	Blanco	n=	.75	Mesaverde	Rio Arriba

COMPARY			MELL NAME AND HUNDE	A	
El Paso Na	atural Gas Com	pany	Rincon Unit	#97	
UNIT LETTLE	ALCTION 18	27N	лажок 6W	FURCHADING PIPELINE EPG	
(ASING 9.0 INCHES	CADING I D - INCHED	SET AT DEPTH - FEET	TUBIR6 0.0 - INCHES	TUNING I O - INCHES	TOP - TUBING PEAF PEET
5AB 1	AY LOHE	WELL PROOF	CINA THAU	CAB CRAVITY	SAAVITY & LENGTH
FROM	10	CARINA	TUBIHG		
	DATE OF FLOW YEST		DATE BHUT-IN PACABURC	MEASURED	
FROM	TO				

(a) Flowing Casing	(b) Flowing Tubing		(d) Flow Chart	(c) Meter Error	(1) Friction Lass	(g) Averago Meter
Pressure (DWI)	Pressure (DWt)		Static Reading	(item c - Item d)	(s-c) or (b-c)	Presawa (Inlegr.
	(i) Avg. Wellhead Press. P ₁ = (h+l)	(1) Shut-In Casing Pressure (DWt)	(k) Shut-In Tubing Pressure (DØt)		80	(n) Separator or De- hydrator Pr. (DVt) for critical flow only

			FLOW RATE CORRE	CTION (METER	ERROR)		
	Integrated Volume — MC?/D	Quotient of	liem c liem d	V	Item c Item d	Corrected Volume	
i						0 = 30	HCELD

		WORKING PRESSUR	E CALCULATION		
(1-+-*)	(P _C Q ₂₀) ² (1000)	$R^2 =$ (1-e ^{-e}) (F _c Q _m) ² (1000)	P1 ²	$P_w^2 = P_t^2 + R^2$	$P_{w} = \sqrt{P_{w}^{2}}$
					265

DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_{c}^{2} - P_{d}^{2}}{P_{c}^{2} - P_{w}^{2}} \right]^{\alpha} = $	30 48253)* () ⁿ <u>=8047</u>	=NCF/D
				_]]

REMARKS: This test was calculated using the daily average flow rate of this well for 1978 as "Q", and the average P_c and P_w from the latest tests of the off-set wells.



P. O. HOX 2010 SANTA FE, NEW MEXICO 07501

NUMBER (NW) (84) 5485

MAY 3 1 1979 DATE___

NOTICE OF ASSIGNMENT OF ALLOWABLE TO A GAS WELL

RECALCULATED The operator of the following well has complied with all the requirements of the Oil Conservation Division and the well is hereby assigned an allowable as shown below,

Purchaser EPG Pool Blanco. Neaswerde. Operator	Jate of Conn	ection	3-16-79	Date of	XXXXXXXXXXXXXXX	XXXIIowable C	Thunge 3-16-79
Well No. $97. \& 97A$ Unit Letter L & P. Sec. 18 Twp. $27R$ Range Dedicated Acreage S 319.08 Revised Acreage Difference Difference Dedicated Acreage S 319.08 Revised Acreage Difference Difference Dedicated Acreage Revised Acreage Factor Difference 52 Ax D Factor 147 Revised A x D Factor 199 Difference 52 Add Infill Well Sacura S OCD District No. 3 Reclassified to Non-Marginal 4-1-78 OCD District No. 3 Montrit Sof MO. PREV. ALLOW. REV. ALLOW. PREV. PROD. REMARKS April 7944 1154 161 1091 June 11057 635 1091 1004 1004 Juny 3921 371 371 371 August 20076 1020 September 17572 519 December 4722 348 140 141 141 141 Junuary 9000 -0- 2435 2435 =	Purchaser	<u> </u>	EPG_		Pool	IBlanco	D Kesaverde
Adjented Acreage Difference Acreage Factor 1.00 Revised Acreage Factor Difference Acreage Factor 1.00 Revised Acreage Factor Difference Average Factor 147 (1972) Revised Acreage Factor Difference Average Factor 147 Revised Acreage Factor Difference 52 Average Factor 147 Revised A x D Factor 199 Difference 52 Average Factor 147 Revised A x D Factor 199 Difference 52 dd Infill Well Secondary OCD District No. 3 Reclassified to Non-Marginal 4-1-78 OCD District No. 3 CALCULATION OF SUPPLEMENTAL ALLOWABLE Previous Status Adjustments 3 MONTH % OF MO. PREV. ALLOW. PREV. PROD. REMARKS April 7944 1154 1154 1154 May 1.3556 10.91 10 10 Juiv 3921 371 3 3 August 2.00.76 10.020 Sovember 17.572 51.9 December	/perator	EPNG_CC	Q		leas	seRincon	Unit
Addicated Acreage Difference Acreage Factor 1.00 Revised Acreage Factor Difference Acreage Factor Difference Difference Difference Acreage Factor 147 (1972) Revised Acreage Factor Difference 52 A x D Factor 147 Revised A x D Factor 199 Difference 52 dd Infill Well Scale Scale OCD District No. 3 Reclassified to Non-Marginal 4-1-78 OCD District No. 3 CALCULATION OF SUPPLEMENTAL ALLOWABLE Previous Status Adjustments	/ell No	_97_&_9/	IAUnit Let	.ter &	_PSec.	18	TwpRange6W
kereage Factor 1.00 Revised Acreage Factor Difference beliverability 147 (1972) Revised Deliverability 199 Difference 52 beliverability 147 Revised Ax D Factor 199 Difference 52 dd Infill Well $Sacure S$ OCD District No. 3 Reclassified to Non-Marginal 4-1-78 OCD District No. 3 MONTH \$00 FMO. PREV. ALLOW. PREV. PROD. REW. PROD. REMARKS MONTH \$00 FMO. PREV. ALLOW. PREV. PROD. REMARKS May 1.3556 1091 154 June 11.057 635 1020 July 3921 371 August 20076 1020 September 10155 997 October 8606 873 November 17572 519 519 5000 1000 December 4722 348 348 348 348 348 348 348 348 349 349 349 349 349 349 349	Dedicated Acro	créare	S 319.08	Re	evised Acrease		Difference
A x D Factor_14/ Revised A x D Factor_199 Difference_52 dd Infill Well	creage Factor	10 10	1.00	Re	evised Acreage Fg	actor	Difference
A x D Factor_14/ Revised A x D Factor_199 Difference_52 dd Infill Well Second Constraints OCD District No. 3 Revised A x D Factor_199 Difference_52 CALCULATION OF SUPPLEMENTAL ALLOWABLE Previous Status Adjustments MONTH % OF MO. PREV. ALLOW. PREV. PROD. REV. PROD. REMARKS May 13556 1091 June 11057 635 July 3921 \$71 August 20076 1020 Spiember 0155 997 October \$606 873 Spiember 10155 997 October \$606 873 Spiember 12326 Spiember 17572 519 Spiember Spiember 12326 Spiember 161 7567 7406 = " " " May June June July June June Spiember <	eliverability.	147 117	972)	Re	vised Deliverabil	.ity	Difference 52
Reclassified to Non-Marginal 4-1-78 8 CALCULATION OF SUPPLEMENTAL ALLOWABLE MONTH \$ OF MO. PREV. ALLOW. PREV. PROD. REV. PROD. REMARKS May 13556 1091	, x D Factor.	14/		Re	evised A x D Fac	ctor199	Difference52
CALCULATION OF SUPPLEMENTAL ALLOWABLE Previous Status Adjustments Image: Colspan="2">Image: Colspan="2" Image: Colspa="2" Image: Colspan="2" Image: Colspan="2" Image: Colsp						Charge_	OCD District No3
Previous Status Adjustments Rev. ALLOW, Rev. ALLOW, PREV. PROD. REV. PROD. REMARKS April 7944 1154	ectgari	<u>fiea_u</u>				ACATAL ALLO	
MONTH % OF MO. PREV. ALLOW. REV. ALLOW. PREV. PROD. REV. PROD. REMARKS April 7944 1154		tuo Adiusta				IENIAL ALLO	<u>/WABLE</u>
April 7944 1154 May 13556 1091 June 11057 635 July 3921 371 August 20076 1020 September 10155 997 October 8606 873 November 17572 519 December 4722 348 January 9000 -0- February 9836 -0- March 12326 -0- May 161 7567 7406 = " " July 161 7567 7406 = " " June - - - July - - - July - - - May - - - July - - - July - - - August - - - July - - - July - - - July -	MONTH MONTH	S AUJUSTIN	IPREV ALLOW	REV ALLOW	PREV PROD	DEV PROD	PEMADVC
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June 11057 635 July 3921 371 August 20076 1020 September 10155 997 October 8606 873 November 17572 519 December 4722 348 January 9000 -0- February 9836 -0- March 12326 -0- June -0- 2435 2435 = A 97P April 161 7567 7406 = " " May - - - July - - - July - - - October - - - October - - - <td< td=""><td>and the second sec</td><td>+</td><td></td><td>·</td><td></td><td></td><td></td></td<>	and the second sec	+		·			
July 3921 371 August 20076 1020 September 10155 997 October 8606 873 November 17572 519 December 4722 348 January 9000 -0- February 9836 -0- March 12326 -0- March 12326 -0- June 1 161 July - June - July - August - Cober - May - June - July - August - Swember - Arril - May - June - Junary - Stermber - Stermber - Stermber - Stermber - August -	· ·	+	the state of the s				~
August 20076 1020 September 10155 997 October 8606 873 November 17572 519 December 4722 348 January 9000 -0- February 9836 -0- March 12326 -0- March 12326 -0- March 12326 -0- June 161 7567 July -0- 2435 July -0- -0-		t		 			
September 10155 997 October 8606 873 November 17572 519 December 4722 348 January 9000 -0- February 9836 -0- March 12326 -0- March 12326 -0- May 161 7567 June -0- -0- June -0- -0- July -0- 2435 2435 = A 97P April -0- 7406 = " " -0- June -0- -0- -0- July -0- -0- 2435 -0- July -0- -0- -0- -0- October -0- -0- -0- -0-		t		{		 	-
October 8606 873 November 17572 519 December 4722 348 January 9000 -0- February 9836 -0- March 12326 -0- March 12326 -0- May 161 7567 June -0- July -0- August -0- Cotober -0- June -0- July -0- July -0- July -0- July -0- September -0- October -0- September -0- January -0- Vecember -0- -0- -0- -0- -0- -0- -0- January -0- March -0-	· · · ·	(í	- [
November 17572 519 December 4722 348 January 9000 -0- February 9836 -0- March 12326 -0- March 12326 -0- March 12326 -0- May 161 7567 June -0- 2435 July -0- 2435 September -0- October -0- Vovember -0- July -0- July -0- August -0- September -0- October -0- Vovember -0- December -0- Vovember -0- Narch -0-	in the second	[
December 4722 348 January 9000 -0- February 9836 -0- March 12326 -0- March 12326 -0- March 12326 -0- March 12326 -0- May 161 7567 June -0- 2435 June -0- 2435 July -0- 2435 September -0- 2435 October -0- 2435 September -0- -0- Volue -0- -0- September -0- -0- December -0- -0- January -0- -0- March -0- -0-		1				1	-
January 9000 -0- February 9836 -0- March 12326 -0- April 161 7567 May 161 7567 June 1 July 1 September 1 October 1 January 1 January 1 January 1	· · · · ·	[وجدهبيه بمنبه غب فيتتوجدهم ومع			ſ	
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	the second se		<u></u>	L	7669	17510	+
TOTALS 128771 7669 17510							1 202 - Daliat
Allowable Production Difference							193 = Kedist
April Schedule ()/U Status	April 30	chedule 4/1	U Status 2		يحديب المستحد المستعدين ألبح		Effective in Thily Schedule
Revised April 0/U Status Effective in July Schedul Current Classification M To	- All a distance of the local data and the local da	a - Constants and a cons tant of the second s	U Status			<u>+ ·</u>	

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JOE D. RAMEN

By

EXHIBIT A Case No. 6691

Proposed Rule 10 (D) for Order R-1670-T, Blanco-Mesaverde Pool, San Juan and Rio Arriba Counties.

<u>RULE 10 (D)</u> Within nincty (90) days after gas from the second well on the unit is first delivered to a gas transportation facility, both wells on the unit shall have been tested in accordance with "Gas Well Testing Rules and Procedures - San Juan Basin, New Mexico" and the results of the test filed with the Division's Aztec office and with the gas transportation facility to which the well is connected. If a test for the current test period has previously been filed for the first well on the unit, a second test of said well will not be required. Both tests will be treated as Initial Tests for purposes of assigning allowables to the unit. This rule shall apply to newly completed wells.

the second s	
BEFORE EXA!	VINER STAMETS
OIL CONSE®V	ATION DIVISION
EXEL	31T NO. A
CASE NO.	6691
C to statute to set	3. Charg
Hearing Dale	10-2-79
	•

CONCHUY AND MINERALS DEFAILMENT

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P. O. HOX 2060

SANTA FE, NEW MEXICO 07501

NUMBER (NW) (8X) 5485

DATE MAY 3 1 1979

NOTICE OF ASSIGNMENT OF ALLOWABLE TO A GAS WELL

ORIGINAL

The operator of the following well has complied with all the requirements of the Oil Conservation Division and the well is hereby assigned an allowable as shown below.

Date of Conn	icction	3-16-79	Date of I	NXXXXXXXXXXX	XXXIIowable Cl	1311gc3-16-79
Purchaser	EPG	EPG_		Pool	IBlanco	Mesaverde
Operator	EPNG_CO	·		I.cas	se <u> </u>	_Unit
Well No.	<u>_97_&_97</u>	AUnit Let	ter & /	PSec.	18	Twp. <u>27N</u> Range <u>6W</u>
Dedicated Ac	reave	S 319.08	Rey	vised Acteaue		Difference
Acreage Facto	10	i.00	Re'	vised Acreage Fr	actor	Difference
Deliverability		12 3	Rev	vised Deliverabil	ity	Difference+175
A x D Factor	. 147	·	Rev	vised A x D Fac	ctor <u>322</u>	Difference+175
Add Infill	Well		\	Snanks.	ching_	OCD District No3
<u>Reclassi</u>	fied to	<u>Non-Marg</u>	<u>inal 4-1</u> -	- 78	0	
				N OF SUPPLEN	MENTAL ALLO	WABLE
		ents				
MONTH	% OF MO.	PREV. ALLOW.	REV. ALLOW.	PREV. PROD.	REV. PROD.	REMARKS
April		7944		1154		
May	1	13556		1091	1	
June		11057	·	635	1	
July		3921	/	871	· · .	·
August		20076	1	1020	1	
September		10155	ii	997	1	
October		8606	í	873		
November		17572		519		
December	()	4722		348		
January	[]	9000		-0-		
February	,	9836		-0-		
March		12326	14613	-0-	.2435	2435 = A 97P
April	· · · · · ·	· ·	18777	161	7567	7406 = " "
May	1	1	20686		l	
June	i,	[[9845			
July		· · · · · · · · · · · · · · · · · · ·	1		REFORE	XAMINER STAMETS
Angust	·	ſ <u></u>				RVATION DIVISION
September	·1					XHIBIT NO. 5
October					U	
November	· · · · ·				CASE NO	6691
December	1	[]				
January					Submitted	sy 5 chang
February	}	i :)				-7-79
March					Hearing D	CITC
TOTALS		128771	149835	7669	17510	
	oduction Dif	ference		193		193 = Redist.
April S	chedule -O/L	J Status		0-		
Revised A	anril U/	U Status				Effective in July Schedule
		NID 182				Current Classification M TO N

Note: All gas volumes are in MCF & 18.025 psia.

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O,

JOE D. RAMEY, Division Director

By

	WEL	L DELIVERABILITY	TEST REPOSE FO	DR 1979	Form Glass
			V		Revised 8-77
COLNAME	POOL SLOPE	FORMATION		COUNTY	
Blanco	n= .75	Mesa	Verde	Rio Arriba	

						90-377
COMPA		Natural Gas Co	mpany	WELL NAME AND NUMBE Rincon U		
UNITLET	ITER	SECTION	TOWNSHIP	RANGE	PURCHASING PIPELINE	
	p	18	27	6	El Paso N	Vatural Gas Co.
CASING	7,000	CASING I.O. INCHES 6.456	SET AT DEPTH - FEET 3527	TUBING O.D. INCHES	IUBING I.D INCHES	10P - TUBING PERF FEET 5790
FROM	GAS 4789	PAY ZONE TO 5822	WELL P CASING	RODUCING THRU	GAS GRAVIIV . 734	GRAVITY X LENGTH
FROM	4-17-	DATE OF FLOW TES	4-25-79	DATE SHUT-IN PRESSURE A		
			PRESSURE DATA -	ALL PRESSURES IN PSIA		

						7
(a) Flowing Cosing Pressure (DWI)	(b) Flowing Tubing Pressure (DWI)	(c) Flowing Meter Pressure (DWt)	(d) Flow Chart Static Reading	(a) Meter Error (item c - item d)	(f) Friction Loss (a-c) or (b-c)	(g) Average Meter Pressure (Integr.)
358	283	257	260	-3	26	264
(h) Corrected Meter Pressure (g+e)	(i) Avg. Wellheod Press. P _t = (h+i)		(k) Shut-in Tubing Pressure (DWt)	(i) Pc=higher value of (i) or (k)	(m) Del. Pressure P_= <u>80 %P</u>	(n) Separator or De- hydrator Pr. (DW1) for critical flow only
261	287	566	428	566	452	

FLOW RATE CORRECTION (METER ERROR)

	liem c	√ llem c item d	Corrected Volume	
integrated Volume - MCF/D 300	Quotient of Item d	.9942	1298	
			$Q = \frac{\chi^{250}}{\chi^{250}}$	MCF/D

WORKING PRESSURE CALCULATION

{1-e ^{-\$} }	(F _c Q _m) ² (1000)	$R^2 = {}^{2}$ {1-e ⁻⁵ } (F _c Q _m) (1000)	P 2	$P_{w}^{2} = P_{t}^{2} + R^{2}$ $P_{w} = \sqrt{P_{w}^{2}}$	
.266	7850	2088	82369	84457 291	
		DELIVERABILITY CA			





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STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

ULL CUMULE د . و به واهمه ا P. O. 110X 2000 SANTA FE, NEW MEXICO 87501

form C-122-A Revised 10-1-78

WELL DELIVERABILITY TEST REPORT FOR 19

·		FOOL BLO		PORMATION		COUNTY
	Blanco	n =	.75	Mesaverde		Rio Arriba
				•		
	COMPANY				WELL HAME AND PUNBER	

El Paso	Natural Gas Com	pany	Rincon Unit #97			
UNIT LETTER	18	27N	nange 6W	EPG		
(A9186 Q.O 18(H	ES CADING I D - INCHER	SCT AT DEPTH - FELT	TUBING 0.0 - INCHES	TUBING I D - INCHES	TOP - TUBING PEAR PECT	
5	AB PAY IDHE	WELL PROD	UCING THRU	CAB CAAVITY	GRAVITY & LENGTH	
***	10	CABING	TUBING	1		
	DATE OF FLOW TEST		DATE SHUT-IN PREBBURE	MEASURED	· ·	
FROM	10			• • •		

		PRESSURE	DATA - ALL PRE	SSURES IN PSIA		
(a) Plowing Casing Pressure (DWI)	(b) Plowing Tubing Pressure (DW)		(d) Flow Chart Static Reading	(c) Meter Error (ltem c - ltem d)	(1) Priction Loss (a-c) or (b-c)	(g) Average Meter Pressure (Integr.)
(h) Corrected Meter Pressure (g + e)	(1) Avg. Weilhead Press. P _t = (h + f)	(j) Shut-In Casing Pressure (DVt)	(k) Shui-In Tubing Pressure (DWi)		80	(n) Separator or De- hydrator Pr. (D¥1) for critical flow only

ł		FLOW RATE CORRE	CTION (METER E	ERROR)	·	•
Integrated Volume - MCF/D	Quotient of	Item c Item d	V	ltem c Jiem d	Corrected Volume	
					Q = 30	NCF/D

		WORKING PRESSURE C	ALCULATION	· · · · · · · · · · · · · · · · · · ·	
(1-+ ^{-b})	(F _c Q _m) ² (1000)	$g^2 =$ (1-e^{-b}) (F_c Q_m)^2 (1000)	Pt ²	$P_w^2 = P_t^2 + R^2$	$P_{w} = \sqrt{P_{w}^{2}}$

DELIVERABILITY CALCULATION

$D = Q \begin{bmatrix} \frac{p_c^2 - p_d^2}{p_c^2 - p_w^2} \end{bmatrix}^n = 30$	48253)° ()]=7485	=8047	=WCF/D
	L 64464		· · · · · · · · · · · · · · · · · · ·	

REMARKS: This test was calculated using the daily average flow rate of this well for 1978 as "Q", and the average P_c and P_w from the latest tests of the off-set wells.



P. O. 110 X 2900 SANTA FE, NEW MEXICO 87501 DATE MAY 3 1 1979

NOTICE OF ASSIGNMENT OF ALLOWABLE TO A GAS WELL

R E C A L C U L A T E D The operator of the following well has complied with all the requirements of the Oil Conservation Division and the well is hereby assigned an allowable as shown below.

Date of Conr	nection	3-16-79	Date of	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXIIowable C!	hange3-16-7	79
Porchaser	<u>EPG</u>	EPG		Pool	olBlanco	Mesaverde	
Operator	EPNG CO			- Ira	se Rincon	Unit	
Well No	<u>_97_& 97</u>	AUnit Let	uer <u> </u>	_PSec.		Twp. 27N	Rance 6W
Dedicated Ac	crease	\$ 319.08	Re	evised Acreave		Difference	
Acreage Fact		1.00	Re	evised Acreage F	actor	Difference	
Miverability	<u>147 (19</u>	72)	Re	vised Deliverabi	lity	Difference Difference Difference52	
A x D Factor	147		Re	evised A x D Fac	ctor 199	Difference 52	
Add Infill	Well			Frank 5.	Change_	• OCD District No	
<u>Reclassi</u>	<u>fied to</u>	<u>Non-Marg</u>			U		
· ·	· ·			IN OF SUPPLEA	MENTAL ALLO	WABLE	
Previous Stat	tus Adjustme	ents	· · · · · · · · · · · · · · · · · · ·	T		1	
MONTH	and the second	PREV. ALLOW.	and the second	PREV. PROD.	REV. PROD.	REMAR	ĸs
April		7944	1	1154			
May	1	13556	1	1154	1		
June		11057	1	635			
July	ł	3921	1	871			
August	1	20076	l	1020			······
September		10155		997	1	· [
October	'	8606	ſ	873		1	
November	l	17572	1	519	<u> </u>		· <u>·····</u>
December	1	4722	í,	348			
January	l	9000	í;	-0-		1	
February	[9836	ı ———,				
March	·+	12326	17800	-0-	.2435	2435 = A 97P	
April	[]	· · · ·		161	7567	7406 = " "	
May	(·		f,		······································	
June	()	[14	· · · · · · · · · · · · · · · · · · ·	j		
July	·	·	1	·,	(
August	rt	·		[]	· · · · · · · · · · · · · · · · · · ·		
September	1		· · · · · · · · · · · · · · · · · · ·	/	('		
October	1	· · · · · · · · · · · · · · · · · · ·		ſ <u></u> '	['		
November	· ·]			1	I'		
December				1	í'		
January	·		·	·'	[]	•	· · · · · · · · · · · · · · · · · · ·
February				[]	I'		
March					·'		
TOTALS		128771		7669 1	17510		
Allowable Pro		ference		193		193 = Redist	
April Se	chedule 0/1	1 Status		-0-	-		
Revised A	Anril U/I	U Status		•	+	Effective In July	Schedule
14	· · · · · · · · · · · · · · · · · · ·	575 W		,		Current Classification	M TO N
		in MCF (c 18.02)					

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A NEW YORK

By

P. O. MOX 2066 SANTA FE, NEW MEXICO 87501

DATE MAY 3 1 1979

NOTICE OF ASSIGNMENT OF ALLOWABLE TO A GAS WELL

ORIGINAL

The operator of the following well has complied with all the requirements of the Oil Conservation Division and the well is hereby assigned an allowable as shown below.

Date of Conn	icction	3-16-79	Date of	KXNXXXXXXXXXX	XXXIIowable CF	hange3-16	-79
Porchaser	EPG	<u> </u>		Pool	IBlanco_	Mesaverde	
Operator	EPNG CO),		Leise	se Rincon	linit (
Well No.	<u>97 & 97</u>	AUnit Lette	cr L &	.PSec.	18	Twp. 27N	Rance 64
Dedicated Ac	reare	S 319.08	Rey	evised Accesse		Difference	
Acreage Facto	31	1.00	Re	vised Acreage Fr	actor	Difference Difference	
Deliverability	1147-119	172X	Re	vised Deliverabil	ity 322	Difference	175
A x D Factor	147		Rev	evised A x D Fact	ctor 322	Difference +	175
Add Infill			``·	S. 15	ell.	OCD District No	
Reclassi	fied to	<u>Non-Margi</u>	inal 4-1	-78	<u> </u>		، <u> </u>
				N OF SUPPLEM	MENTAL ALLO	WABLE	
Previous Stat	ne Adiustme	ents		7		1	
MONTH	% OF MO.	PREV. ALLOW. R	REV. ALLOW.	PREV. PROD.	REV. PROD.	REMA	ABKC
April		7944					11/2
May	f	13556		1154	<u> </u>		
June	l	11057		635	f		
July	·	3921		871		+	<u> </u>
August		20076	··	1020	i	+	
September	[,	10155		997	ſ'	+	
October	f	8606		873	1		
November	1	17572	i i i i i i i i i i i i i i i i i i i	519	í ,	†	
December	·	4722		348	í,		
January	i	9000		-0-	í '	<u></u>	
February	1	9836		-0-	ı'		······································
March	·	12326	14613	-0-	. 2435	2435 = A 971	
April	······,		18777		7567	7406 = " "	
May	·		20686	·····	·,		
June	·		9845		,		······
July)		ORE EYAND	NER STAMETS	· · · · · · · · · · · · · · · · · · ·
August	/			() = -)	CON		
September	· · · · · · · · · · · · · · · · · · ·	1	I		COINC	<u>B</u>	
October	!	ſ		[
November	· /	1	/	CAL	SELL 6	691	L
December			l			5 Chara	
January			/		mi <u>lle</u>	D. Chang	ŀ
February		1	!		l	1-1,2,2,29	L
March		[l		arite a	10 U	l
TOTALS		128771	149835		17510		
		llerence 3		193		193 = Redis	it.
April S	chedule O/I	U Status 3	<u></u>	-0-			41 L - 114
Revised A	pril 0/1	U Status		· 39297		Effective In July	Schedule
I-L.		Sile Way	_		· •	Corrent Classification	M TO N

Note: All gas volumes are in MCF (15.025 psia.

OF COL

JOE D. RAMEY, Division Director

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WELL DELIVERABILITY TEST REPORT FOR -1979 Y FOOLNAME POOL SLOPE FORMATION COUNTY Blanco .75 Mesa Verde Rio Arriba n =

....

						90-377
COMPANY E	1 Paso	Natural Gas Co	mpany	WEIL NAME AND NUMBER Rincon Ur		
UNITLETTER		SECTION	TOWNSHIP	RANGE	PURCHASING PIPELINE	
	Р	18	27	6	El Paso N	Natural Gas Co.
CASING O.D.	·INCHES	CASING I.D INCHES	SET AT DEPTH - FEET	TUBING OD INCHES	TUBING I.D INCHES	TOP - TUBING PERF FEET
7.	000	6.456	3527	2.375	1.995	5790
	GAS P	AYZONE	WELL P	PRODUCING THRU	GAS GRAVITY	GRAVITY X LENGTH
FROM 47	89	to 5822	CASING	TUBING XX	.734	4250
,		DATE OF FLOW IES	1	DATE SHUT-IN PRESSURE N	AEASURED	
FROM	4-17-7	9 10	4-25-79	5-2-7	79 ·	

Form C122-A Revised 8-77

	PRESSURE DATA - ALL PRESSURES IN PSIA								
(a) Flowing Casing Pressure (DW1)	(b) Flowing Tubing Pressure (DWI)	(c) Flowing Meter Pressure (DWt)	(d) Flow Chart Static Reading	(e) Meter Error (Item c - Item d)	(f) Friction Loss (o-c) or (b-c)	(g) Average Meter Pressure (Integr.)			
358	283	257	260	-3	26	264			
(h) Corrected Meter Pressure (g+e)	(i) Avg. Wellheod Press. P _t = (h+f)	(i) Shut-in Casing Pressure (DWI)	(k) Shut-in Jubing Pressure (DWI)	(I) Pc=higher volue of (i) or (k)	(m) Del. Pressure P_= <u>80</u> %P	(n) Separator or De- hydrator Pr. (DWt) for critical flow only			
261	287	566	428	566	452				

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D 300	Quotient of Item c • 9885	√ ^{Item c} Item d .9942	Corrected Volume	
	••••••	• 33 + 2 -	$Q = \frac{\chi^{250}}{h}$	WCF/D

	WORKING PRESSURE CALCULATION										
(1-e ⁻³)	(F _c Q _m) ² (1000) 7850	$R^{2} = 2$ (1-e^{-5}) (F_{c}Q_{m})^{(1000)} 2088	P, ² 82369	$P_{w}^{2} = P_{t}^{2} + R^{2}$ 84457	$P_{w} = \sqrt{P_{w}^{2}}$						

DELIVERABILITY CALCULATION

$D = Q \begin{bmatrix} \frac{P_{c}^{2} \cdot P_{d}^{2}}{P_{c}^{2} \cdot P_{w}^{2}} \end{bmatrix}^{n} =$	298	<u>116052</u> 235899	$)^{n} = (.4920)^{n} =$. 5874	=MCF/D
REMARKS:					

4.500" Liner 3243' - 5853' Initial and Annual First Del. 3-16-79 SUMMARY



STATE OF NEW MEXICO ENERGY AND IMPERALS DEPARTMENT

P. O. HOX ZUBB SANTA FE, NEW MEXICO 07501

forn C-122-A Revised 10-1-78

WELL DELIVERABILITY TEST REPORT FOR 19.

POOL HAVE	FOOL 1	1000	FORMATION	COUNTY
Blanco	n =	.75	Mesaverde	Rio Arriba

El Paso Na	atural Gas Comp	any	Rincon Unit #97			
L 18 27N			6W	EPG		
CASIFE 0.0 INCHES	CABING I & _ INCHES	ACT AT DEPTH - FILT	TUBING 0.0 - INCHES	TUBING I D - INCALS	TOP - TUBING PERF FECT	
6AB /	AY IONE	WELL PRODI	LING THRU	GAS GRAVITY	GRAVITY & LENGTH	
PROM	10		TUBING			
	DATE OF FLOW TIST		DATE SHUT-IN PACABURE MEASURED			
-	το		{			

PRESSURE DATA - ALL PRESSURES IN PSIA										
(a) Flowing Caping Pressure (DWI)	(b) Plowing Tuble Pressure (DWI)		(d) Flow Chart Static Reading	(e) Meter Error (liem c - liem d)	(f) Priction Loss (s-c) or (b-c)	(g) Average Meter Pressure (Integr.)				
	(I) Avg. Wellhead Press. Pg = (h+f)	(j) Shut-in Casing Pressure (DVii)	(k) Shut-In Tubing Pressure (DWi)	(1) Pc = higher value of (1) or (k) 367		(n) Separator or De- hydrator Pr. (D¥t) for critical flow only				

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D	Quotient of Item c Item d	VItem c Jiem d	Corrected Volume
			Q = 30 HCF/D

WORKING PRESSURE CALCULATION

(1-•-*)	(P _c Q _m) ² (1000)	$R^2 =$ (1-e^{	P _t ²	$P_w^2 = P_t^2 + R^2$	$P_w = \sqrt{P_w^2}$
		4			265

DELIVERABILITY CALCULATION

$D = Q \left[\frac{P_c^2 - \Gamma_d^2}{P_c^2 - P_w^2} \right]^n =$	30 4825	<u>3</u>) [*] (7485) * 8047	
		/		

A STATE OF

REMARKS: This test was calculated using the daily average flow rate of this well for 1978 as "Q", and the average P_c and P_w from the latest tests of the off-set wells.



P. O. HOX 2000 SANTA FE, NEW MEXICO 87501 NUMBER (NW) (8%) 5485

DATE MAY 3 1 1979

NOTICE OF ASSIGNMENT OF ALLOWABLE TO A GAS WELL

RECALCULATED

The operator of the following well has complied with all the requirements of the Oil Conservation Division and the well is hereby assigned an allowable as shown below.

Date of Connection	3-16-79	Date of XXXXXXXXX	SXXXXIIowable C	Change3-16-79
Purchaser EPG	EPG	I	PoolBlance	o Mesaverde
Operator FPN(G CO.		Lease Rincon	n Unit
Well No. 97 8	E 97A Unit Letter _	<u>L&P</u> s	Sec. 18	Twp. 27N Range 6W
Dedicated Kereane	S 319.08	Revised Accesse	e	Difference
Acreage Factor	1.00	Revised Acreag	e Factor	Difference
Deliverability 147	(1972)		ability 199	Difference Difference
A x D Factor 147		Revised A x D	Factor 199	Difference 52
Add Infill Well		- Snank?	5. Churge	OCD District No3
		CULATION OF SUPPL	LEMENTAL ALL	OWABLE
Previous Status Adj	justments		· · · · · · · · · · · · · · · · · · ·	1
MONTH % OF			D. REV. PROD.	REMARKS
April	7944	115	A	
May	13556	109		
June	11057	63		
July	3921	87		
August	20076	102	<u>1</u>	
September	10155	99		
October	8606	87		
November	17572	51		
December	4722	34		
January	9000	-0-		
February	9836	-0-		
March		-0-		2435 = A 97P
April		690 16:	and the second se	7406 = " "
May	17			
June				
July				
August				
September				
October				
November				
December				
January			1	
February				
March				
TOTALS	128771	7669	9 17510	
	on Difference		193+	<u> 193 = Redist.</u>
Anni I Schedule	o OIL Status		-0-	
Revised April	1 O/U Status			Effective In July Schedule
ي الم	111 N.			Current Classification M To N
· • • • • •	· • • •			and a second sec

Note: All gas voluines are in MCF (v 15.025 psia.

0:1 501

JOE D. RAMEY, Division Director By

STATUS IN A STATUS

P. O. HOX 2008 SANTA FE, NEW MEXICO 87501

NUMBER (NW) (6%) _____5485

DATE MAY 3 1 1979

NOTICE OF ASSIGNMENT OF ALLOWABLE TO A GAS WELL

ORIGINAL

The operator of the following well has complied with all the requirements of the Oil Conservation Division and the well is hereby assigned an allowable as shown below.

Date of Coni	nection	3-16-79	Date of	KXXXXXXXXXXXXXXXX	XXXIIowable Cl	hange3-16-79	
Purchaser	<u> </u>	EPG		Pool	al8lanco	Mesaverde	
Operator	EPNG_CC)		lear	seRincon	UnitTwp27NRai	
Well No.	<u>97 & 97</u>	IAUnit Lett	.er	P Sec.	18		nee <u>6v</u>
Dedicated Ac	dreand	\$ 319,08	Re	evised Acrease		Difference	
Acreage Pacto	.01	1.00	Re	evised Acreage Fr	actor	Difference Difference	·
Deliverability			Re	vised Deliverabil	ity 322	Difference +175	
A x D Factor	<u>r 147</u>		Re	evised A x D Fac	ctor <u>322</u>	Difference +175	
Add Infill	Well		` ·	Frank 5.	oll	OCD District No	3
Reclassi	fied to	<u>o Non-Margi</u>					
-	-	<u>C</u> .	ALCULATIO	ON OF SUPPLEN	AENTAL ALLO	WABLE	PERCENT CONTRACTOR
		ents		1	· · · · · · · · · · · · · · · · · · ·	1	***
MONTH		PREV. ALLOW.		PREV. PROD.	REV. PROD.	REMARKS	
April		7944	·	1154			
May		13556		1091	1	1	
June		11057		635		1	**************************************
July		3921		871		1	
August		20076		1020		1	**************************************
September		10155	······································	997	l		
October		8606		873			
November		17572	/	519	ſ		
December		4722	······································	348	·		Pa
January		9000	/	-0-	l		·
February		9836	· · · · · · · · · · · · · · · · · · ·	-0-	I		
March		12326	14613	-0-	.2435	$2^{4}35 = A 97P$	
April		· .	18777	-j	7567	7406 = " "	
May			20686		I'		
June			9845	pad	La contra a servicia de contra		
July			/	[]	BEFORE	EXAMINER STAMETS	
August				[ENATE DIVISION	<u> </u>
September	L			I		· · ·	
October	 '	·		I		XHIBIT NO. B	<u> </u>
November	I			↓↓		66.91	
December	L'		!	÷	·	hy & Chare	_
January	i '			<u>↓</u>	Submitted	by J. Urans	
February	{. <u></u> '	Į	l	l	Hearing L	ale 70-2-29	
March	/'				i and the second se		<u> </u>
TOTALS		128771	149835				
Allowable Pre	oduction 121	liference 3	<u>/</u> /	193		<u> 193 = Redist.</u>	
April S	chedule On	U Status	<u></u>	-0-		Elfantin Bullin and S	chedule
	April U	U Status	J	· 13251	ARH !	have been a second and the farmer and the	·,,-
1-1		Dir Will			- /	Correct Classification M	10 N

Note: All gas volumes are in MCF & 15.025 psia.

JOE D. RAMEY, Division Director

By

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WELL DEUVERABILITY TEST REPORT FOR 1979

Form C122-A Ravised 8-77

 $\begin{bmatrix} FOOL NAME \\ Blanco \\ o = .75 \end{bmatrix} FORMATION \\ Nesa Verde \\ Rio Arriba$

V

						90-377
COMPAN		Natural Gas Co	mpany	WELL NAME AND NUMBER		
UNITEET	IER	SECTION	TOWNSHIP	RANGE	PURCHASING PIPELINE	
	Р	18	27	6.	El Paso N	latural Gas Co.
CASING	0.0. INCHES	CASING I.D INCHES 6.456	SET AT DEPTH - FEET 3527	TUBING O.D INCHES	TUBING LO. INCHES	TOP - TUBING PERF FEET
	GAS	PAY ZONE	WELLP	RODUCING THRU	GAS GRAVITY	GRAVITY X LENGTH
FROM	4789	то 5822	CASING	TUBING XX	.734	4250
		DATE OF FLOW IES	7	DATE SHUT-IN PRESSURE A	MEASURED	
FROM	4-17-	79 ₁₀	4-25-79	5-2-7	79	
			PRESSURE DATA -	ALL PRESSURES IN PSIA		

(a) Flowing Casing Pressure (DWI)	(b) Flowing Tubing Pressure (DWI)	(c) Flowing Meter Pressure (DWt)	(d) Flow Chart Static Reading	(e) Meter Error (item c - item d)	(f) Friction Loss (a-c) or (b-c)	(g) Average Meter Pressure (Integr.)
358	283	257	260	-3	26	264
(h) Corrected Meter Pressure (g+e)	(I) Avg. Wellhead Press. P _t = (h+I)	(i) Shut-in Casing Pressure (DWi)	(k) Shul-in Tubing Pressure (DWI)	(i) Pc=higher value of (i) or (k)		(n) Separator or De- hydrolor Pr. (DWI) for critical flow only
261	287	566	428	566	452	

FLOW RATE CORRECTION (METER ERROR)

Integrated Volume - MCF/D	liem c	√ liem c liem d	Corrected Volume
300	Quotient of Item d .9885	.9942	Q = X298 / MCF/E

WORKING PRESSURE CALCULATION

(1-e -s)	(F _c Q _m) ² (1000)	$R^2 = {}^{2}$ (1- θ^{-s}) (F _c Q _m) ² (1000)	P, 2	$P_{w}^{2} = P_{t}^{2} + R^{2}$	$P_w = \sqrt{P_w^2}$
266	7850	2088	82369	84457	291
				·	

DELIVERABILITY CALCULATION Pc2. Pd2 n D = Q 298 116052 .5874 4920 8.00 MCF/C 235899/ REMARKS: 4.500" Liner 3243' - 5853' Initial and Annual First Del. SUMMARY 3-16-79 Paso Natural Gas Company 261 Psia Item h Company 566 Psio Ρ, 87 298 291-ENGINEER WE1 MCF/D Q Title Psia ρ Wilnessed By. 452 175 13 . 19 _Psio Company MCF/D 1 n RZ

MAY I O 1979 OIL CON. COM. DIST. 3

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STATE OF NEW MEXICO ENERGY AND MILIERALS DEPARTMENT

P. O. HOX 2088 SANTA FE, NEW MEXICO 87501

Forn C-122-A Revised 10-1-78

WELL DELIVERABILITY TEST REPORT FOR 19

A second s				
POOL HAME	FOOL	FLOPE	FORMATION	COUNTY
Blanco	n ≍	.75	Mesaverde	Rio Arriba

El Paso Na	atural Gas Comp	bany	Rincon Unit	-	
UNIT LETTEN	18	27N	алные 6W	FURCHASING PIPELING EPG	
CADING O.D INCHES	CABING I D INCHER	ACT AT DEPTH - PERT	TUBING 0.0 - INCHES	TUBING L D - INCHEB	TOP - TUBINE PEAT FLET
6AB 7	AY LONE	WELL PROU	CING THAU	CAB CRAVITY	SRAVITY & LENGTH
PROM	10	CA8148	TUDIKE		
······	DATE OF FLOW TEST		DATE SHUT-IN PACASURE	MEASUACO	
***	10			•	

		PRESSURE	DATA - ALL PRE	SSURES IN PSIA		
(a) Flowing Casing Pressure (DWt)	(b) Flowing Tubing Pressure (DW)		(d) Flow Chart Static Xeading	(e) Meter Error (liem c - liem d)	(1) Priction 1.000 (a-c) or (b-c)	(g) Average Meter Pressure (Integr.)
(h) Corrected Meter Pressure (g + e)	(i) Avg. Wellhead Preas, P _t = (h+1)	() Shut-in Casing Pressure (DW1)	(k) Shut-In Tubing Picessure (DWI)		(m) Del. Pressure $P_d = 80 \pi P_c$ 294	(n) Separator or De- hydrator Pr. (DWI) for critical Now only

i	FLOW RATE CORRE	ECTION (METER ERROR)	12 (1)	_
Integrated Volume - MCF/D	Quotient of Item c Item d	√ ^{ltem c} Item d	Corrected Volume	
	1		0 = 30 HCF/D	1

	WORKING PRESSURE CALCULATION							
(1•-*)	(r _c Q _m) ² (1000)	$g^2 =$ (1-* [*]) ($F_c Q_m$) ² (100G	Pl ²	$P_w^2 = P_t^2 + R^2$	$P_{w} = \sqrt{P_{w}^{2}}$			

DELIVERABILITY CALCULATION

	$D = Q \left[\frac{P_c^3 - P_d^2}{P_c^2 - P_w^2} \right]^n = $	30 4829	<u>13</u>)° (<u>7485</u>) =8047]=	MCF/D
--	---	---------	-------------------------------	-----------	-------

REMARKS: <u>This test was calculated using the daily average flow rate of this well for 1978 as</u> "Q", and the average P_c and P_w from the latest tests of the off-set wells.



P. U. MOX LUNG SANTA FE, NEW MEXICO 87501

DATE MAY 3 1 1979

NOTICE OF ASSIGNMENT OF ALLOWABLE TO A GAS WELL

RECALCULATED

The operator of the following well has complied with all the requirements of the Oil Conservation Division and the well is hereby assigned an allowable as shown below,

Date of Conn	ection	3-16-79	Date of	XXXXXXXXXXXXXXXXX	XXX llowable C	hange3-16-;	79
Porchaser	-676	<u><u> </u></u>		Peor	Blanco	Mésaverde	
Operator	-Frill-49	1A 11-10 3		LCos		_Unit	
Well No.	71 6 71		lor <u> </u>	PSec.	<u>I</u> ŏ	Twp27N	Range <u>6V</u>
Dedicated Acr	reage	1 00	Ke	vised Acreage		Difference	
Acreage Pacto	* 117 /10	1.00	Ке	vised Acreage re	actor	Difference Difference	
Deliverability.	167 167	14]	Ke	vised Deliverable	ity	Difference	
A X D Pactor.						Difference52	
Add Infill				Frank 5.	(2)	OCD District No	
<u>Reclassi</u> I	<u>fied to</u>	<u>Non-Marg</u>		******			
				N OF SUPPLEM	ENTAL ALLO	WABLE	
		ents					
MONTH	% OF MU.	PREV. ALLOW.	REV. ALLOW.		REV. PROD.	REMAR	KS
April	<u> </u>	7944		1154	<u> </u>		
May	<u> </u>	13556		1091	<u> </u>		
June	 	11057	l	635	1		
July	·	3921	l	871	· .	-	
August	<u></u>	20076	l	1020	1		
September	 	10155	 	997	L		· · ·
October	/	8606	 '	873			**************************************
November	; 	17572	·'	519	I		
December	j	4722	·'	348	(<u> </u>	
January	·	9000	·	-0-	I	<u> </u>	
February	·	9836	1	-0-			
March	/	12326	12565	-0-	.2435	2435 = A 97P	
April		·		161	7567	7406 = " "	
May	/	II		<u>L. </u>	l		
June	/	[]		<u></u>	l		
July	/	L		I	{		
August	!	L		I	<u> </u>		
September		II		<u> </u>	j		
October	/	I	/	i	r	· /	
November		I	l	·	- 		
December	J	<u> </u>	i	<u>;</u>	·	Į	
January	/	1	,t	<u> </u>	r	.	· · · · · · · · · · · · · · · · · · ·
February	j	lł	, <u> </u>	łł	I	} 	
March		Lawrence Lawrence	l	(·	
TOTALS		128771		7669			
Allowable Pro	duction Diff	fference 3	<u></u> !	193		193 = Redist	
April Se	chedule O/U	J Status 3	<u></u> !	-0-			
Revised A	.pril 0/1	U Status		·	<u>,</u>	Effective In July	Schedule
A line		319 19 A				Current Classification	M TO N

Note: All gas volumes are in MCF et 15.025 psia.

0:1- 001 ¢,

JOE D. RAMEY, Division Director

By

Dockets Nos. 40-79 and 41-79 are tentatively set for October 17 and 31, 1979. Applications for hearing must be filed at least 22 days in advance of hearing date.

DOCKET: EXAMINER HEARING - TUESDAY - OCTOBER 2, 1979

9 A.M. - OIL CONSERVATION DIVISION CONFERENCE ROOM. STATE LAND OFFICE BUILDING, SANTA FE, NEW MEXICO

The following cases will be heard before Richard L. Stamets, Examiner, or Daniel S. Nutter, Alternate Examiner:

CASE 6656: (Continued from September 19, 1979, Examiner Hearing)

In the matter of the hearing called by the Oil Conservation Division on its own motion to permit Energy Oil & Gas Corp., The Travelers Indemnity Co., and all other interested parties to appear and show cause why the Sadler Well No. 1 located in Unit I of Section 3, Township 24 North, Range 29 East, Union County, New Mexico, should not be plugged and abandoned in accordance with a Divisionapproved plugging program.

CASE 6640: (Continued from September 5, 1979, Examiner Hearing)

In the matter of the hearing called by the Oil Conservation Division on its own motion to permit In the matter of the hearing called by the Uli conservation bitation on the own method of parties to appear Miles Production Company, National Surety Corporation, and all other interested parties to appear and show cause why the Thomas Drought Well No. 1 located in Unit A of Section 4, Township 15 North, and show cause why the Thomas Drought Well No. 1 located in Unit A of Section 4, Range 6 West, McKinley County, New Mexico, should not be plugged and abandoned in accordance with a Division-approved plugging program.

CASE 6687: In the matter of the hearing called by the Oil Conservation Division on its own motion to permit McCoy and Phillips and all other interested parties to appear and show cause why the Martin Well No. 1 located in Unit N of Section 34, Township 30 North, Range 11 West, San Juan County, New Mexico, should not be plugged and abandoned in accordance with a Division-approved plugging program.

In the matter of the hearing called by the Oil Conservation Division on its own motion to permit Phillips and Spence and all other interested parties to appear and show cause why the Martin Well No. 2 located in Unit N of Section 34, Township 30 North, Range 11 West, San Juan County, New Mex should not be plugged and abandoned in accordance with a Division-approved plugging program. CASE 6688:

In the matter of the hearing called by the Oil Conservation Division on its own motion to permit CASE 6689: one "Goodrum" and all other interested parties to appear and show cause why the E. C. Brawley Well No. 1 located in Unit O of Section 34, Township 30 North, Range 11 West, San Juan County, New Mexico, should not be plugged and abandoned in accordance with a Division-approved plugging program.

In the matter of the hearing called by the Oil Conservation Division on its own motion to permit CASE 6690: Elvis L. Roberts, The Travelers Indemnity Co., and all other interested parties to appear and show cause why the Bergin Well No. 1 located in Unit F of Section 21, Township 29 North, Range 11 West, San Juan County, New Mexico, should not be plugged and abandoned in accordance with a Divisionapproved plugging program.

CASE 6691:

In the matter of the hearing called by the Oil Conservation Division on its own motion to consider the addition of a Rule 10(D) to Order No. R-1670-T, Blanco Mesaverde Infill Drilling Order, San Juan and Rio Arriba Counties, New Mexico, to require that both wells on a proration unit be tested when an infill well has been completed. Said Rule 10(D) would be identical to Rule 10(D) of Order No. R-1670-V for the Basin-Dakota Pool.

CASE 6692: In the matter of the hearing called by the Oil Conservation Division on its own motion to consider the amendment of Order No. R-333-F-2 to require that gas wells in the Pictured Cliffs or shallower formations be classified "exempt marginal" if at least three months of production history is available and their average production for the months produced within the preceding 12-month period is less than 1000 MCF per month. The same amendment is sought for wells completed below the Pictured Cliffs formation except that minimum production would have to average less than 2000 MCF per month. Also to be considered would be the requirement in Order No. R-333-F-2 and in Rule 10(C) of Orders Nos. R-1670-T and R-1670-V that no well on a multiple well proration unit could be classified exempt marginal unless all wells on the unit are eligible for such reclassification.

CASE 6674:

Application of Tenneco 011 Corporation for downhole commingling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks approval for the downhole commingling of Fruitland and Blanco-Fictured Cliffs production in the wellbore of its Florence Well No. 115 located in Unit M of Section 10, Township 30 North, Range 9 West.



STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

AZTEC DISTRICT OFFICE

BRUCE KING GOVERNOR LARRY KEHOE SECRETARY 1000 RIO ØRAZOS ROAD AZTEC, NEW MEXICO 97410 (505) 334-6178

August 27, 1979

Mr. Joe D. Ramey **OII** Conservation Division Box 2088 Santa Fe, New Mexico 87501

ECEIVED CIL CONSERVATION DIVISION SANTA FE

Re: Case No. 6640 docketed for September 5, 1979

Dear Mr. Ramey:

In agreement with Mr. J. B. Fuller of Miles Production Company | hereby request the subject case be continued to October 3, 1979, at which time both parties plan to be able to present testimony.

Also, please docket for hearing on October 3, 1979, the following cases as outlined in the attached letters:

- 1. A revision of Order R-333-F-2 insofar as it concerns wells to be classed as exempt marginal.
- 2. A revision of Orders R-1670-T & 1670-V to cause current testing of the old well on a drill tract where a new infill well is being tested.
- 3. A show cause hearing for the McCoy and Phillips #1 Martin well located 1100' FSL and 1540' FWL of Section 34, 30N, 11W, San Juan County, and
- 4. A show cause hearing for Phillips and Spence #2 Martin located 970'FSL and 1670' FWL in Section 34, 30N, 11W, San Juan County.

If there are questions please contact us.

Yours very truly,

udiile

A. R. Kendrick Supervisor, District #3

Encls. as stated XC: Mr. J. B. Fuller Miles Production Company P. O. Box 154 Carrollton, Texas 75006

ARK/bk



BRUCE KING

LARRY KEHOE

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

AZTEC DISTRICT OFFICE

1000 RIO BRAZOS ROAD AZTEC, NEW MEXICO 87410 (505) 354-8178

Case 6691

June 15, 1979

Mr. Ernest-Padilla Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87501.

Re: Amendment to Order R-1670 as amended by Order R-1670T and Order R-1670V

Dear Ernie:

Please docket a case for the following: "An Amendment to Order R-1670 as amended by Order R-1670T and Order R-1670V". Our proposed amendment will add Rule 10-D as shown on the attached "Exhibit A". This rule is the same as Rule 10-D in Order 1670V and will provide for the assignment of more equitable allowables in a newly infilled proration unit.

Yours truly, 5m

Frank T. Chavez Deputy Inspector

FTC:no

AN AMENDMENT PROPOSED BY THE OIL CONSERVATION DIVISION TO ADD RULE 10(D) TO ORDER #R-1670 AS AMENDED BY ORDER #R-1670T AND ORDER #R-1670V APPLICABLE TO THE BLANCO-MESAVERDE POOL.

<u>Rule 10 (D)</u>

Within ninety (90) days after the second well on the unit is first delivered to a gas transportation facility, both wells on the unit shall have been tested in accordance with "Gas Well Testing Rules and Procedures - San Juan Basin, New Mexico," and the results of the tests filed with the Division's Aztec office and with the gas transportation facility to which the well is connected. If a test for the current test period has previously been filed for the first well on the unit a second test will not be required. Both tests will be treated as initial Tests for purposes of assigning allowables to the unit. This rule shall apply to newly completed wells.

EXHIBIT "A"

De the medice of the hearing called by the Oil Conservation Division on its own mation to consider the addition of A Rule 1000 to Have Do R-1670-T, to require that both wells on a provation cuit be fasted when an infill wree has been completed.

Case 6691

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the matter of the hearing called by the Oil Conservation Division on its own mation to consider the addition of a Tule 10(0) to Order no. R-1670-T, Blunco meranere infier Dreaming Order, San Jean and Ris arriba Camting how mexced, to require that both weeks on a provation wint be tested when an infell were has been completed. Jaid Ruce 10(D) would be idential to Ruce 10(0) og Order Dr. R-1670-V for the Barin Dakaha Voal,

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OIL CONSERVATION DIVISION IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION

STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT

CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF on it's own wovien CONSIDERING:

dor the purpose of CASE NO. 6691 considering the Order NO. BY 16.78-T-B Amendment of Division Order No. BY 16.78-T-B Application of the Oil Conserva tid Order No 8-1670-T

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on OAF219<u>79</u>, at Santa Fe, New Mexico, before Examiner <u>RLS</u> NOW, on this <u>day of</u> <u>19</u><u>79</u>, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

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

(2) that an amended well test procedure should be adopted for the Blanco-Messwerde
Pool, Rio Arriba and San Juan Countres, New Mexico, in order to permit the more assignment of more oppropriate allowables
t, proration units following completion of
t, proration units following completion of
a second or "indill" well there on.
(3) That such test procedure integet be the Special Ruemand be propriate Remaining for the second be the special Ruemand Republicant of the to reading the to (D) of There of the special Ruemand be ported to R 1690 The to reading the second be the special Ruemand be the second be the to and the R-1670 The second be the to and the R-1670 The R-1670-T-A, to include the to coving Special Rue 10(D):

56 R R Jule C NO. 8691

Proposed Aule 10 (D) for Order R-1670-T, Blanco-Mesaverde Pool, San Juan and Rio Arriba counties

<u>RULE 10 (D)</u>. Within ninety (90) days after gas from the second well on the unit is first delivered to a gas transportation facility, both wells on the unit shall have been tested in accordance with "Gas Well Testing Rules and Procedures - San Juan Basin, New Mexico" and the results of the test filed with the Division's Aztec office and with the gas transportation facility to which the well is connected. If a test for the current test period has previously been filed for the first well on the unit, a second test of said well will not be required. Both tests will be treated as Initial Tests for purposes of assigning allowables to the unit. This rule shall apply to newly completed wells.

BEFORE EXAMINER STAMETS OIL CONSESVATION DIVISION 9 CASE Sutmitted ing Dale Heal

TY IS THEREFORE ORDERED the Spicial Rules and Regulations for the Blanco Qivificin Orfan No. R-1670 T-A' are here by amon de c by the act by Division adar Nos. R-1670of the bolloging Special Pule 10(D)

<u>RULE 10 (D)</u>. Within ninety (90) days after gas from the second well on the unit is first delivered to a gas transportation facility, both wells on the unit shall have been tested in accordance with "Gas Well Testing Rules and Procedures - San Juan Basin, New Mexico" and the results of the test filed with the Division's Aztec office and with the gas transportation facility to which the well is connected. If a test for the current test period has previously been filed for the first well on the unit, a second test of said well will not be required. Both tests will be treated as Initial Tests for purposes of assigning allowables to the unit. This rule shall apply to newly completed wells.

2) Jurisciction