DISTRICT I P.O. Box 1980, Hobbs, NM 88341-1980

DISTRICT II P.O. Drawer DD, Artesia, NM 88211-8719

DISTRICT III DISTRICT III
1000 Rio Brazos Road, Aziec, NM 87410

Form C-136 Originated 12/23/91

OIL CONSERVATION DIVISION 1 8 1993

P.O. Box 2088
Santa Fe, New Mexico 87.015.

DIST. 3

L TO HEE

APPLICATION FOR APPROVAL TO USE AN ALTERNATE GAS MEASUREMENT METHOD Rule 403.B(1) or (2)

		Rule 403.B(1) o	or (2)		6 6 5 W T	
Operator Name: G	eorge H. Fentre	ess Gidge, Colora	ado 80034-	Operator No. New	aso #º Mex.	
Lease Name: Jica	rilla Tribe Cor	ETAIL LOCAT	317-A Type: [ONS	State Fede		Fee X Indian
Location: SEE Pool: BALLARD Requested Effective Time	Pictured Clif	of Per ElPaso Agas signed by	greement of	- 3/-24- Jan. 6, 199 Inding Cebruary 1,	4 93 and 1993	
	Please atta	OVAL PROCEDURE:	the following informa			
 2) A one year proc 3) The established 4) Designate wells 5) The gas transpo 	Please att	ell included in this application rate for each ow device (required a well. ROVAL PROCEDURE and a separate sheet with institution is required for each	pplication (showing well and the effective wells capable in RULE 403.B.(2) the following informatic Central Point Delivery	g the annual and discrive time period. of producing 5 MCl FE ation. ery (CPD). OIL	F per day of ELY B 4199	or more). E (f)
1) An ownership p	plat showing a description ells which will be metere ells which will not be me	of the lease and all disparately, including	of the wells to bong API No.	e produced through	this CPD.	
2) Describe the p	roposed method of alloca	iting production from	n non-metered we	ells.		
3) A one year pro	oduction history of the we	ells which will not be	metered showing	the annual and dai	ily volumes	•
4) The gas transp	orter(s) connected to thi	s CPD.				<u> </u>

Applicant will be responsible for filing OCD Form C-111 for the CPD.

OPERATOR I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.	OIL CONSERVATION DIVISION This approval may be cancelled at anytime that operating conditions indicate that re-tests may be necessary to prevent waste and protect correlative rights.
10 attaces	Approved Until: Justiner natice) By: Original Stand by FRANK I (HAVF?
Signature: George H. Fentress	By: Original Signed by FRANK T. (RAVIY Title: SUPERVISOR DISTRICT # 3
Printed Name & Title: George H. Fentress Owner and Operator 4 And 2, 1993	Title.
THE OF	

WIG MCOMO

RULE 403.B.(1)

- 1) The wells, meter No's, API, location all in Exhibit B Map.
- 2) I do not have a full year of production as I only became Operator April 1, 1992. Advise if I must dig it up.
- 3) This must be in the copy of my signed agreement with ElPaso as presented at end of this presentation.
- 4) See Exhibit B. The Low Volume wells are #6 Abel and #2 Abel, while remaining two wells will continue to be metered.
- 5) The gas Transporter shall remain ElPaso, with gas being marketed by Sunrise Energy; at least for now.

RULE 403.B.(2)

- 1) The API Numbers are shown for all four wells operated by Fentress, and the Meter Numbers of ElPaso
 - b) wells NOT metered separately, as I understand it, SHALL BE ON THE ALTERNATE MEASUREMENT METHOD, the #2 and #6 Abel wells as in Exhibit B.
- 2) I assume all of this measurement proceedures have been approved by the Oil Conservation Commission in Case 10398, Order No. R-9617 and which established Rule 1136
 AND, that the B.L.M. has also approved this method.

 Should you require this additional paperwork, I shall to see you receive it.
- 3) Again, I do not have a full year production history of wells to be metered or not metered.

4) ElPaso is the gas transporter delivering to spot market (s).

George H. Fentress

Operator-Owner

February 2, 1993

ALTERNATIVE MEASUREMENT PROUEST FORM FOR AGREED VOLUME

(1-5 Dth Per Day)

I hereby request government approval for use of this Alternative Measurement method for marginal low flow wells. I have consented, upon receipt of all necessary regulatory approvals, to El Paso Natural Gas Company's installation and use of the Alternative Measurement method described below for my low flow natural gas well(s) producing into El Paso's pipeline system.

1. Reason for Proposal

Try to reduce likelihood of well shut-in and loss of production due to uneconomical operations. Low flow production wells incur most of the same fixed costs experienced for wells producing much greater amounts of natural gas, but do not enjoy the same economies of scale. Therefore, the per unit cost of measurement for low flow well(s) can be unacceptably high for a prudent operator.

Failure to approve use of this Alternative Measurement could result in premature abandonment of production from these low flow wells.

2. Explanation and Diagram

Please refer to the detailed explanation of the Alternative Measurement method to be used and the schematic flow diagram provided as Attachment A.

3. Map and Lease Numbers

A township plat map listing all lease, communitization, and Unit numbers and showing the location of these properties and the related wells is provided as Attachment B.

4. Schematic Diagram and Location of Equipment

Please refer to information provided with item numbers 2 and 3 above.

5. Central Point Delivery Production Allocation Method

Please refer to the outline for "Central Point Delivery (CPD) Measurement And Allocate Low Production Well Volumes" provided as Attachment C. A copy of the CPD Agreement between the operator and the pipeline is provided as Attachment D.

6. Estimated Lease Production

A table listing the estimated hourly or daily production rate for each well on the lease, communitization, or Unit property is provided as Attachment E.

7. Additions to Approved Commingling or Off-Lease Measurement

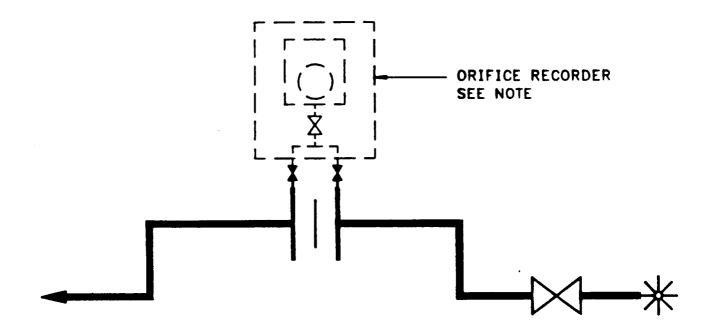
None are proposed.

A

AGREED VOLUME

ALTERNATIVE METHOD SCHEMATIC

PRIMARY ELEMENT USED FOR ANNUAL TEST



NOTE:
ORIFICE RECORDER TEMPORARILY INSTALLED
ONLY TO CONDUCT 16 DAY ANNUAL TEST

BASIC HOURLY FLOW RATE CALCULATION METHODS

- 1. Average Hourly Flow Rate (MCF)
 - a. Annual or Test Period Measured Volume (MCF) = Average Hourly Flow Annual or Test Period Flow Hours Rate (MCF)
 - b. Example: 3365 MCF = 0.57 MCF/Hour Average Flow Rate 5877.8 Hours
- 2. Average Daily Hourly Flow Rate (MCF)
 - a. Average Hourly Flow Rate (MCF) X 24 = Average Daily Flow Rate (MCF/D)
 - b. Example: 0.57 (Average Hourly MCF) x 24 = 13.68 MCF (Average Daily Flow Rate)
- 3. "Time Calculated Volume" Formula
 - a. Flow Meter Hours X Average MCF Hourly Flow Rate = Volume (MCF) Volume (MCF) X BTU Factor = MMBTU (dth) for Period Indicated
 - b. Example: 1971 (Hours) X .31 (MCF) = 611 MCF 611 MCF X 1097 BTU = 670 MMBTU (dth) for the Period Indicated
- 4. "Agreed Volume" Formula
 - a. Annual or Test Period Measured Flow Volume = "Average Hourly" MCF Annual or Test Period Flow Hours.

"Average Hourly" MCF X 24 = Daily MCF Flow Volume

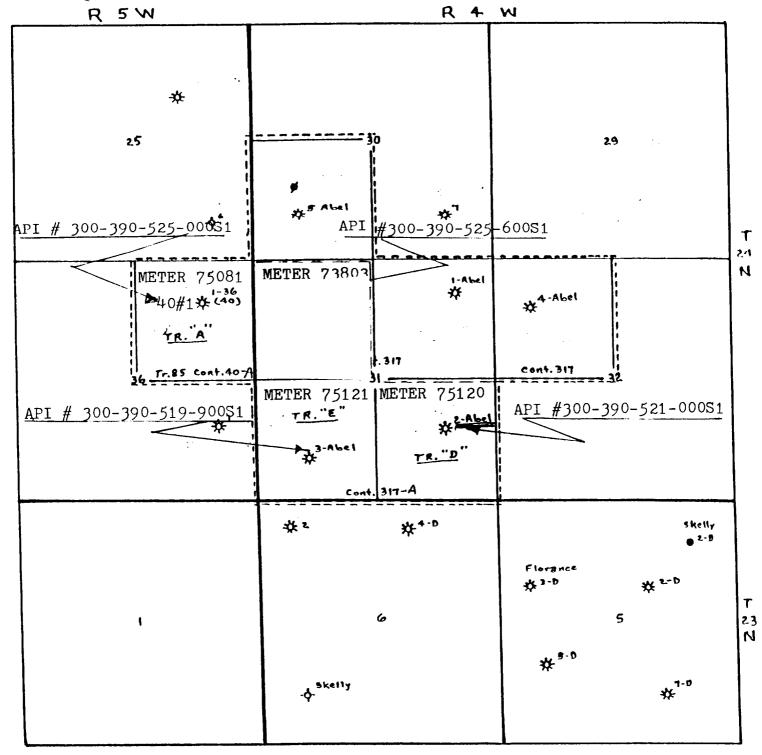
Daily MCF Flow Volume X Percent Stipulated Flow Time (i.e. Cycle Flow) = Average Daily MCF Flow Volume

b. Example: 31 (days) X 4 (MCF) = 124 MCF 124 MCF X 1097 BTU = 136 MMBTU (dth) for the month

EXHIBIT _____ RIO ARRIBA COUNTY, NEW MEXICO

ElPaso Operator #0432 N.M. Co. Code #1742 MMS Operator # KO 801

George H. Fentress, Operator-Owner



PREPARED FOR ALTERNATIVE METHOD LOW FLOW WELL LISTING OF Meter 73803 #6Abel, and Meter 75120 #2Abel

MAP OF "SUBJECT LANDS" JICARILLA APACHE 40 \$ 317 LEASES

SCALE: I MILE = 21/2 INCHES

February 2, 1993

1969

DATE:	February	2,	1993

	4		4
PAGE		OF	1

REVISED	DATE:_	

ATTACHMENT ALTERNATIVE METHOD

LOW FLOW WELL LISTING

Operator Code #0432 (N.M. #1742)
Operator Name George H. Fentress

TETER No.	well name	STATE	AREA LOCATION	TEST PERIOD MCF	TEST PERIOD FLOW HRS	TIME GALC. HOURLY RATE MCF	AGREED VOLUME DAILY RATE MCF	WELL VALVE CLOSED CONDITIONS
3-803	Jicarilla Abel #6	NM-3	Chaco	2097	5841.4	0.35	8.4	TC
5-120	Jicarilla Abel #2	NM-31	Chaco	1004	6166	0.16		Code 29 AV 14% o
								
							-	
· · ·								
				1				

TC = Time Calculated Volume (Hourly)

AV = Agreed Upon Volume (Daily)

ACCEPTED BY:

George H. Fentress

0265z:108



P O BOX 1492 EL PASO, TEXAS 79978 PHONE: 915-541-2600

1992

File:

Subject: Failure to Approve Alternate Measurement Method Agreement for Low Flow Wells

Dear

El Paso Natural Gas Company intends to operate its gathering system as efficiently as possible. The Alternative Methods of Measurement are efficient and have received the NMOCD and BLM approval for Low Flow Well Measurement. These are the most cost effective methods for wells producing 15 MCF/D or less.

Unless you approve the Alternative Methods of Measurement, El Paso will initiate the permanent disconnection of the well and the removal of the measurement equipment from this site. If you desire later to reconnect this well to El Paso's gathering system, you will be expected to bear the costs of new metering and reconnection to the system.

Very truly yours,

WPPCEC: 176

P. O. BOX 1492 EL PASO, TEXAS 79978 PHONE 915 541-2600

Natural Gas Company

George H. Fentress Operator #0432

January 6, 1993

P. O. Box 113, Wheat Ridge, Colorado

deorge A. Bermat Operator 0635

80034-0113

120 Mornings Dda Drive Sarasota, FL 34236

AS RECEIVED BY FENTRESS 02/01/43 VIA FLUEIDA

File: George-Ar-Bernat

George H. Fentress

Re: Agreement to Use Alternative

Measurement Method for Low Flow Meters

Gentlemen:

ALTERNATE MEASUREMENT METHOD FOR LOW FLOW WELL METERS PRODUCING 15 DTH - 1 DTH PER DAY

This Letter Agreement, when accepted by you, authorizes El Paso Natural Gas Company ("El Paso") to use the Alternative Measurement Methods described below for those low flow meter locations listed on the attachment hereto, as revised from time to time.

In return, El Paso agrees to use the applicable Alternative Measurement Method as soon as practicable for the listed low flow meters on wells producing 15 dekatherm ("dth") to 1 dth per day during the past year.

ALTERNATE MEASUREMENT METHODS TO BE USED

The Alternative Measurement Method applicable shall be in accordance with the attached procedures and determined by the anticipated production range, as outlined below.

15 Dth to 5 Dth Per Day "Timed Calculated Volume" Method

The 1990 Annual Production Volume, or the most recent annual test, shall be used to establish an "Average hourly" flow rate, and each year thereafter the Annual Production Measurement Test results shall be used to establish an updated Average hourly flow rate for the meter. A differential pressure switch and an hour meter also shall be used to calculate the time when the well flows. Each well is deemed to produce a "Timed Calculated Volume," to be calculated by the flow hours metered times the Average hourly flow rate. Primary measurement elements will be kept on site for Annual Production Tests; however, the Timed Calculated Volume is deemed to represent a reasonable approximation of actual production and permanent measurement recorders on site shall not be required or used.

5 Dth to 1 Dth Per Day "Agreed Volume" Method

The 1990 Annual Production Volume, or the most recent annual test, shall be used to establish an "Agreed Volume" average hourly flow rate for the meter during the first year this Letter Agreement is effective. Each year

thereafter, the Annual Production Measurement Test results shall be used to establish an updated Agreed Volume for the next year of 5 dth to 1 dth per day. Operator agrees to cause the production valves to be open at all times during the period of this agreement. This well is deemed to produce at all times at the Agreed Volume hourly flow rate, subject to adjustments for well shutins due to well workovers, no market for production, or other production valve closed conditions. Primary measurement elements will be left on site for Annual Production Tests; however, the Agreed Volume is deemed to represent a reasonable approximation of actual production and permanent measurement recorders on site shall not be required or used.

MISCELLANEOUS

If any well previously subject to the "Agreed Volume" Method that later increases production to the 15 dth to 5 dth per day range, on an annual basis, that well prospectively shall become subject to the "Time Calculated" Method. If any well previously subject to either Alternative Measurement Method herein later increases production to 25 dth per day or more, on an annual basis, that well prospectively shall become subject to another conventional measurement method for larger volumes, the specific provisions of which are to be agreed upon by El Paso and the well operator at that time. In no event shall this Letter Agreement obligate El Paso to accept natural gas from wells with an anticipated production range of less than one (1) Dth per day.

This Letter Agreement is effective as of the date first set forth above and shall remain in effect for a Primary Term of five (5) years, and from month to month thereafter subject to termination at the end of any month by either party giving written notice to the other party at least one month in advance. This Letter Agreement is subject to all valid laws, regulations and rules. Neither party hereto is obligated to accept measurement results from an Alternative Measurement Method that has not received all necessary regulatory approvals, when applicable, such as approvals from the Bureau of Land Management, or State conservation agencies. The Attachments to this Letter Agreement, as revised from time to time, are incorporated herein.

If the foregoing accurately sets forth our agreement on Alternate Measurement Methods, please cause an authorized individual to sign both original counterparts of this Letter Agreement on behalf of the well operator in the space provided below and return one signed original to the address below:

Director, Measurement Technical Operations Department El Paso Natural Gas Company P. O. Box 1492 El Paso, Texas 79978

	Very truly yours,
GEORGE H. FENTLESS George A. Bornst	EL PASO NATURAL GAS COMPANY
By Lenger Ten res	Ву
GEORGE H. FENTRES	Hugh A. Shaffer
Name (Type or Print)	Name
CUNER-OPERATOR OHLD	01/1992 Director, FSD-Operations
Title (Type or Print) # 0432	Title
70hrun 1, 1993	January 14, 1993
Date 1	Date
an Coccered this Day	GEORGE H. FENTRESS
Attachments	GEORGE H. FENTRESS WPPPSA:LA BOX 113 PH. (303) 423-3938
(
	WHEAT RIDGE, CO 80034