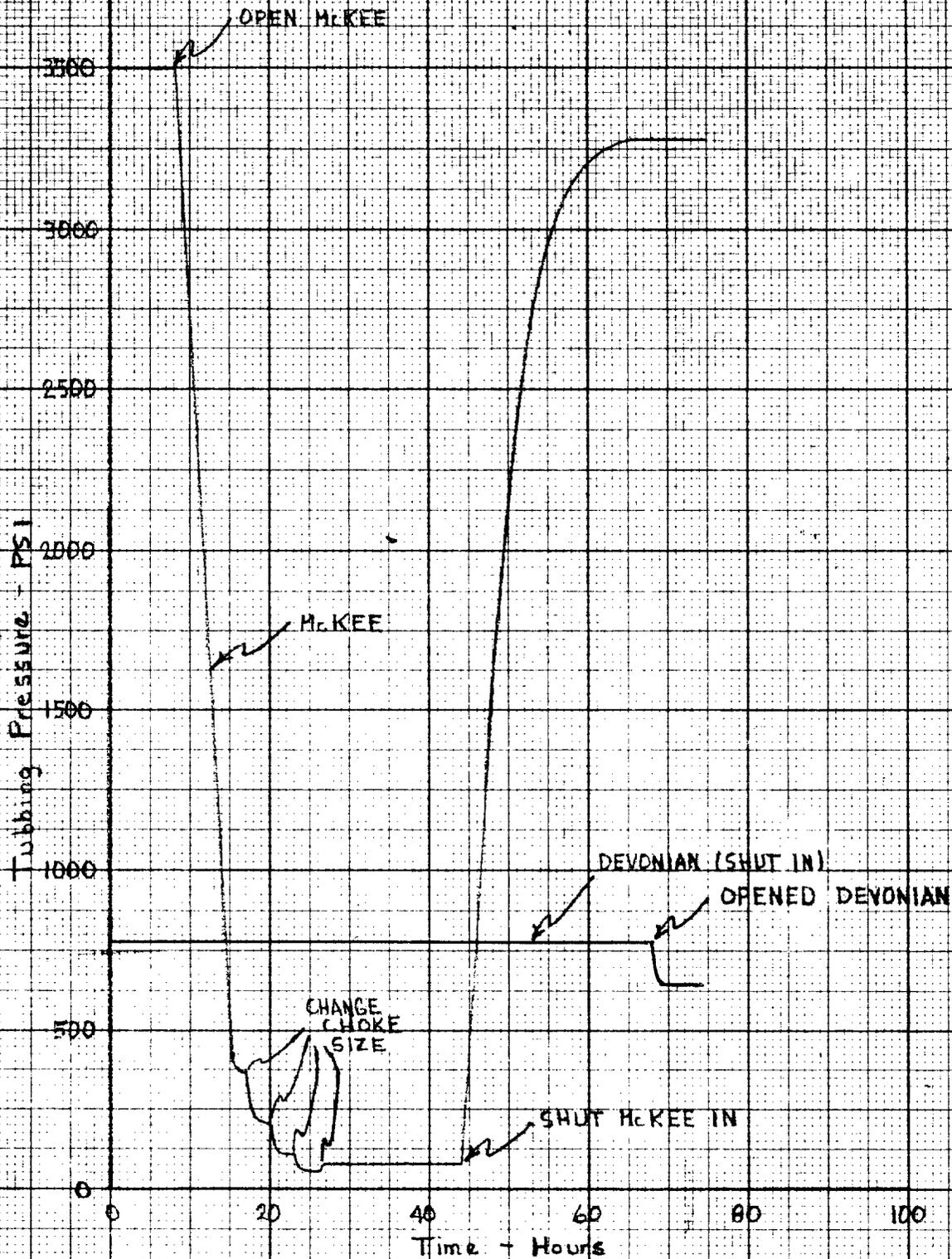


Packer Leakage Test
The Pure Oil Company
South Vacuum Unit 2-35
10-31-58



OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

237

October 26, 1962

The Pure Oil Company
P. O. Box 671
Midland, Texas

Attention: Mr. K. H. Dowell

Gentlemen:

Reference is made to your letter of October 12, 1962, requesting that the A. O. Smith meter installed in the automatic custody transfer system for your South Vacuum Unit, South Vacuum Devonian Pool, Lea County, New Mexico, be placed on a quarterly proving frequency rather than monthly as now required. You also enclosed tabulations and graphs of the past meter factors as well as copy of a letter from Mr. Fred Ashford, Jr., Texas-New Mexico Pipeline Company, agreeing to the quarterly proving frequency requested.

Pursuant to the authority granted me by Rule 309-A 4 (d), you are hereby authorized to prove the aforesaid meter on a quarterly interval, subject to the provision that it shall also be proved at any time that it is repaired or at the specific request of the producer, purchaser, or the Commission.

Very truly yours,

A. L. PORTER, JR.,
Secretary-Director

ALP/DSN/esr

cc: Oil Conservation Commission
Hobbs, New Mexico

Texas-New Mexico Pipeline Company
Attention: Mr. Fred Ashford, Jr.
P. O. Box 1510 - Midland, Texas

C
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P
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THE PURE OIL COMPANY

SOUTHERN PRODUCING DIVISION • MIDLAND DISTRICT
P. O. BOX 671 • MIDLAND, TEXAS • MUTUAL 2-3725

October 12, 1962

New Mexico Oil Conservation Commission
P. O. Box 871
Santa Fe, New Mexico

Attention: Mr. A. L. Porter
Secretary-Director

Gentlemen:

By Order Number R-1327, dated January 21, 1959, The Commission approved the installation of an automatic custody transfer system for the South Vacuum Unit Lease, South Vacuum Devonian Field, Lea County, New Mexico. The system went into operation July 1, 1959. The positive displacement meter has been proven monthly in accordance with the provisions of that Order.

Through August, 1962, 1,101,875 barrels of oil have been metered through the automatic custody transfer unit. The meter has been proven quarterly with a master meter and checked monthly (between master meter tests) against a surge tank. It is felt that the lease meter is performing satisfactorily, and it is requested that Case No. 1577, Order No. R-1327, be amended to permit meter proving on a quarterly basis with the master meter and to dispense with the surge tank measurements.

In support of this request, the following information is attached:

- (1) Tabular record of meter factors
- (2) Graphical plot of meter factors versus time

A letter from Texas-New Mexico Pipeline Company approving this request was submitted in previous correspondence dated August 21, 1962.

Yours very truly,


K. H. Dowell

KHD/cs
encls.

SOUTH VACUUM UNIT A.C.T. SYSTEM

Meter Proving Record

A. O. Smith Meter S-12 #96794

<u>Date</u>	<u>Proving Device</u>	<u>Meter Factor</u>	<u>Date</u>	<u>Proving Device</u>	<u>Meter Factor</u>
6-29-59	Meter	0.99141	1-29-61	Surge Tank	1.00230
8-11-59	Meter	0.99539	2-14-61	Meter	1.00207
9-16-59	Meter	0.99668	3-20-61	Surge Tank	0.99620
10-21-59	Meter	0.99478	4-14-61	Surge Tank	1.00480
11-13-59	Meter	0.99578	5-16-61	Meter	0.99891
12-15-59	Meter	0.99541	6-21-61	Surge Tank	1.00920
1-25-60	Surge Tank	0.99148	7-24-61	Surge Tank	0.99650
2-16-60	Surge Tank	1.00290	8-24-61	Meter	1.00030
3-15-60	Meter	0.99435	9-27-61	Surge Tank	0.99640
4-19-60	Surge Tank	1.00040	10-27-61	Surge Tank	1.00040
5-13-60	Meter	0.99494	11-29-61	Meter	0.99430
6-24-60	Surge Tank	0.99450	12-22-61	Surge Tank	0.99570
7-26-60	Surge Tank	0.99623	1-29-62	Surge Tank	0.99300
8-25-60	Meter	0.99392	2-7-62	Meter	0.99900
9-30-60	Surge Tank	1.00980	3-19-62	Surge Tank	0.99850
10-29-60	Surge Tank	1.00252	4-16-62	Surge Tank	1.00290
11-28-60	Meter	1.00180	5-21-62	Meter	1.00119
12-28-60	Surge Tank	1.00270	6-18-62	Surge Tank	1.00010
			7-17-62	Meter	0.99560
			8-20-62	Meter	0.99972



THE PURE OIL COMPANY

SOUTHERN PRODUCING DIVISION • MIDLAND DISTRICT
P. O. BOX 671 • MIDLAND, TEXAS • MUTUAL 2-3725

October 12, 1962

New Mexico Oil Conservation Commission
P. O. Box 871
Santa Fe, New Mexico

Attention: Mr. A. L. Porter
Secretary-Director

Gentlemen:

By Order Number R-1327, dated January 21, 1959, The Commission approved the installation of an automatic custody transfer system for the South Vacuum Unit Lease, South Vacuum Devonian Field, Lea County, New Mexico. The system went into operation July 1, 1959. The positive displacement meter has been proven monthly in accordance with the provisions of that Order.

Through August, 1962, 1,101,875 barrels of oil have been metered through the automatic custody transfer unit. The meter has been proven quarterly with a master meter and checked monthly (between master meter tests) against a surge tank. It is felt that the lease meter is performing satisfactorily, and it is requested that Case No. 1577, Order No. R-1327, be amended to permit meter proving on a quarterly basis with the master meter and to dispense with the surge tank measurements.

In support of this request, the following information is attached:

- (1) Tabular record of meter factors
- (2) Graphical plot of meter factors versus time

A letter from Texas-New Mexico Pipeline Company approving this request was submitted in previous correspondence dated August 21, 1962.

Yours very truly,


K. H. Dowell

KHD/cs
encls.

SOUTH VACUUM UNIT A.C.T. SYSTEM

Meter Proving Record

A. O. Smith Meter S-12 #96794

<u>Date</u>	<u>Proving Device</u>	<u>Meter Factor</u>	<u>Date</u>	<u>Proving Device</u>	<u>Meter Factor</u>
6-29-59	Meter	0.99141	1-29-61	Surge Tank	1.00230
8-11-59	Meter	0.99539	2-14-61	Meter	1.00207
9-16-59	Meter	0.99668	3-20-61	Surge Tank	0.99620
10-21-59	Meter	0.99478	4-14-61	Surge Tank	1.00480
11-13-59	Meter	0.99578	5-16-61	Meter	0.99891
12-15-59	Meter	0.99541	6-21-61	Surge Tank	1.00920
1-25-60	Surge Tank	0.99148	7-24-61	Surge Tank	0.99650
2-16-60	Surge Tank	1.00290	8-24-61	Meter	1.00030
3-15-60	Meter	0.99435	9-27-61	Surge Tank	0.99640
4-19-60	Surge Tank	1.00040	10-27-61	Surge Tank	1.00040
5-13-60	Meter	0.99494	11-29-61	Meter	0.99430
6-24-60	Surge Tank	0.99450	12-22-61	Surge Tank	0.99570
7-26-60	Surge Tank	0.99623	1-29-62	Surge Tank	0.99300
8-25-60	Meter	0.99392	2-7-62	Meter	0.99900
9-30-60	Surge Tank	1.00980	3-19-62	Surge Tank	0.99850
10-29-60	Surge Tank	1.00252	4-16-62	Surge Tank	1.00290
11-28-60	Meter	1.00180	5-21-62	Meter	1.00119
12-28-60	Surge Tank	1.00270	6-18-62	Surge Tank	1.00010
			7-17-62	Meter	0.99560
			8-20-62	Meter	0.99972

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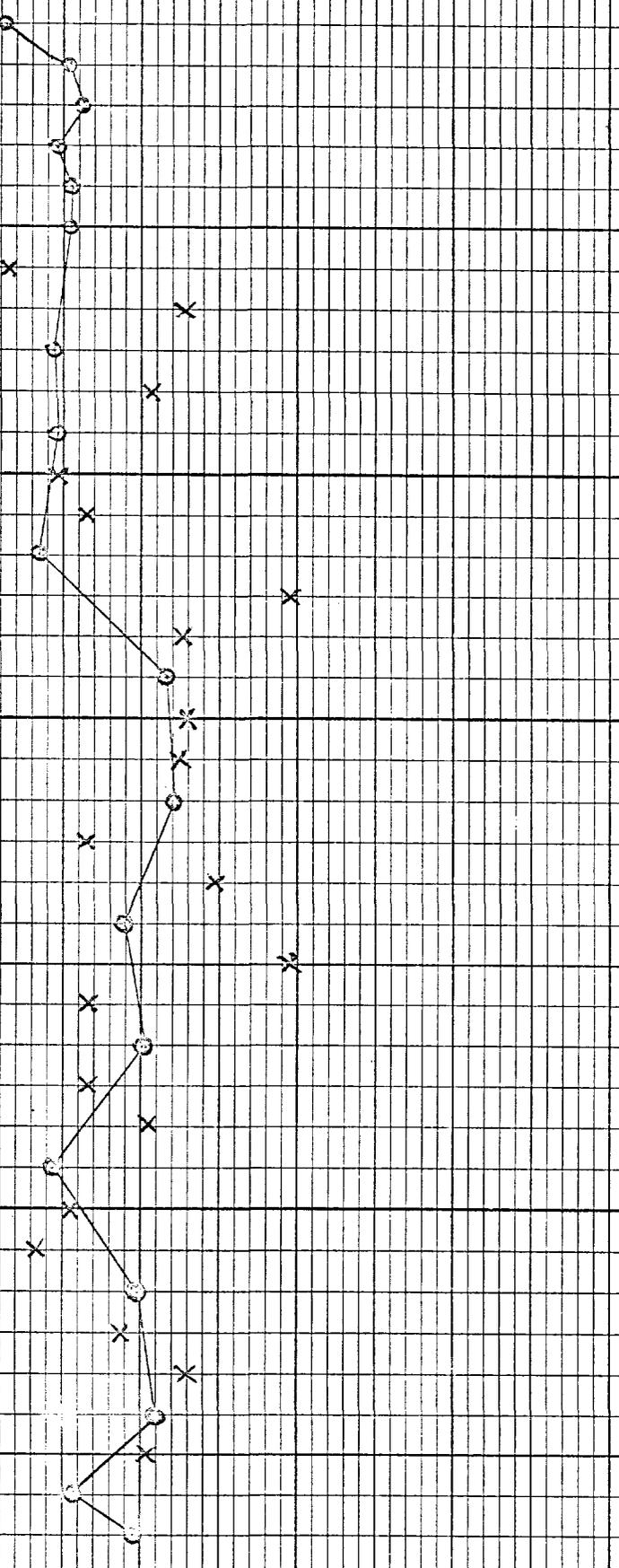
1980 1985 1990 1995 2000 2005 2010 2015

METER FACTOR

1959
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SOUTH VACUUM UNIT
A.C.T. SYSTEM
Meter # Smith Scale # 96994
Meter Factor
Y5
Time
Based on Master Meter
Based on Surge Tank



OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

September 5, 1962

C
O
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Y

The Pure Oil Company
P. O. Box 671
Midland, Texas

Attention: Mr. R. L. Clemons

Gentlemen:

Reference is made to your letter dated August 21, 1962, wherein you request that the meter proving frequency for the meters installed in the automatic custody transfer system on your South Vacuum Devonian Unit in Lea County, New Mexico, be extended to a quarterly basis. The meters are presently being tested on a monthly basis in accordance with Commission Order R-1327 which authorized the installation.

Prior to extending the meter proving frequency, it will be necessary that the Commission receive a history of the average factors previously obtained, both tabulated and plotted on a graph of factors versus time, showing that this particular installation has experienced no erratic drift. This is in accordance with the requirements of Commission Rule 309-A, Section 4 (d).

Very truly yours,

DANIEL S. MUTTER
Chief Engineer

DSM/ear



THE PURE OIL COMPANY

SOUTHERN PRODUCING DIVISION • MIDLAND DISTRICT
P. O. BOX 671 • MIDLAND, TEXAS • MUTUAL 2-3725

August 21, 1962

New Mexico Oil Conservation Commission
P. O. Box 871
Santa Fe, New Mexico

Attention: Mr. Daniel S. Nutter

Dear Sir:

I would like to refer to the Oil Conservation Commission Case No. 1577, Order No. R-1327, in which it states, "That the positive displacement meters used in the automatic custody transfer equipment referred to above shall be checked for accuracy once each month until further order of the Secretary-Director and the results of such tests shall be furnished to the Commission."

The system being discussed by the above order is The Pure Oil Company's South Vacuum Devonian Unit in Lea County, New Mexico. Since the issuance of the order, we have proven the lease meter with a master meter on a quarterly basis and monthly (between master meter tests) against a surge tank. Experience has shown that the lease meter is performing satisfactorily. The results of the last master meter test are in close agreement with the previous test. It is believed that the meter is sufficiently accurate that we can dispense with the surge tank measurements and continue with the master meter proving on a quarterly basis.

We have discussed this proposal with Texas-New Mexico Pipe Line Company, and they are in agreement with discontinuing the stock tank measurements. A copy of their letter is attached.

It is requested that Case No. 1577, Order No. R-1327, be amended to permit meter proving on a quarterly basis.

Yours truly,

R. L. Clemons
Petroleum Engineer

RLC/cs
encl.

TEXAS-NEW MEXICO PIPE LINE COMPANY

FRED ASHFORD, JR.
DIVISION MANAGER

P. O. BOX 1510
MIDLAND, TEXAS

August 28, 1962

Mr. R. L. Clemons
Petroleum Engineer
The Pure Oil Company
P. O. Box 671
Midland, Texas

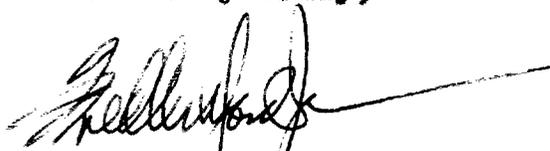
Dear Sir:

With reference to your letter dated August 14, 1962, concerning meter proving frequency on the meter installed on The Pure Oil Company's LACT system in the South Vacuum Devonian Unit, Lea County, New Mexico.

We are agreeable to discontinuing monthly calibrations using stock tank measurements and utilize in the future master meter calibrations on a quarterly basis.

We are enclosing an extra copy of this letter which you may utilize in your application to the New Mexico Oil Conservation Commission when seeking permission to calibrate on a quarterly basis.

Yours very truly,



Fred Ashford, Jr.
Division Manager

FAjr-btk

Enclosure

cc: Mr. W. P. Foster
P. O. Box 1027
Lovington, New Mexico

MASTER METER PROVING DATA REPORT FOR A SYSTEM
 (This form filed in Duplicate and to be used for no more than one system)

COMPANY W. W. WOODS OIL COMPANY POOL W. W. WOODS UNIT #1 TEST NUMBER 23 METER FACTOR 0.9999 GRAVITY (60°) 1.00
 MASTER TEST METER MAKE W. W. WOODS SIZE 2 1/2" MODEL 3412 USED LAST PERIOD 0.9999 LAST PERIOD 1999
 OR TEST TANK NO. A, B, C, D, E SIZE 2 1/2" MODEL 3412 SERIAL NO. 29995 DATE LAST CALIBRATION 1/1/99 FACTOR 1.0000

LEASE METER MAKE	SIZE	MODEL	SERIAL NO.	LEASE METER BEING TESTED		TESTING DEVICE		7-10 (11) Ratio Error	(12) Gr. Factor for next period	REMARKS (14)
				Final (5) Reading	Initial (6) Reading	Final (8) Reading	Initial (9) Reading			
W. W. WOODS UNIT #1	2 1/2"	3412	29995	500.350	499.950	500.350	499.950	2.00000	1.00000	0.99999
W. W. WOODS UNIT #2	2 1/2"	3412	29996	500.350	499.950	500.350	499.950	2.00000	1.00000	0.99999
W. W. WOODS UNIT #3	2 1/2"	3412	29997	500.350	499.950	500.350	499.950	2.00000	1.00000	0.99999

REMARKS _____
 Are all meters on this system included? Yes No,
 I hereby certify that the information is true and complete to the best of my knowledge.

Tested by W. W. Woods Position Inspector Company W. W. Woods Oil Company Address W. W. Woods Oil Company
 Witnessed by W. W. Woods Position Inspector Company W. W. Woods Oil Company Address W. W. Woods Oil Company
 Submit to the appropriate District Office of the Oil Conservation Commission

ILLEGIBLE