

EL PASO NATURAL GAS COMPANY

Memorandum

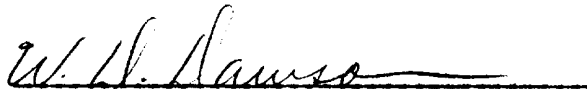
To: Mr. E. S. Oberly
From: Gas Engineering Department

Date: October 26, 1961
Place: Farmington, New Mexico

Re: Annual Packer Leakage Test of El Paso Natural Gas Company well,
Ludwick No. 10 (PM), NE Sec. 29-30-10.

The 1961 Annual Packer Leakage test, for the above named dual completed well, indicated communication between the producing zones. After further testing, completed on October 26, 1961, communication was still indicated. See attached test sheets.

This well is being returned to your Department this date for corrective action.


W. D. Dawson
Gas Engineer

WDD:bjo

cc: O.C.C. (3) ✓
W. M. Rodgers
File

*- well file -
operators notified to repair*



NEW MEXICO OIL CONSERVATION COMMISSION
NORTHWEST NEW MEXICO PACKER - LEAKAGE TEST

FORM PL-NW-1
REVISED 6-1-59

Operator El Paso Natural Gas Company		Lease Ludwick		Well No. 10 (PM)	
Location of Well: Unit A Sec. 29 Twp 30 Rge 10		County: San Juan		Type of Test: Initial _____ DATE _____ Annual 1961 YEAR	
UPPER COMPLETION:	Name of Reservoir or Pool Pictured Cliffs	Oil or Gas Gas	Flowing or Artificial Lift Flowing	Producing Casing or Tubing Casing	
LOWER COMPLETION:	Name of Reservoir or Pool Mesa Verde	Oil or Gas Gas	Flowing or Artificial Lift Flowing	Producing Casing or Tubing Tubing	

SHUT - IN PRESSURE DATA BEFORE FLOW TEST NO. 1

UPPER COMPLETION:	Hour & Date Well Shut-in 9-14-61	Length of Time Shut-in 7 days	Shut-in Pressure, PSIG 429	Stabilized Pressure (Yes/No)
LOWER COMPLETION:	Hour & Date Well Shut-in 9-14-61	Length of Time Shut-in 7 days	Shut-in Pressure, PSIG 538	Stabilized Pressure (Yes/No)

FLOW TEST NO. 1		Zone Producing (Upper or Lower) Lower		Hour & Date Flow Started 9-21-61	
LAPSED TIME SINCE FLOW BEGAN	SHUT-IN ZONE PRESSURE, PSIG	WORKING COLUMN PRESSURE, PSIG	FLOWING ZONE PRESSURE, PSIG	FLOWING TEMPERATURE	REMARKS
4 days	453		440		
7 days	427		427		
OIL PRODUCED	Total Bbls.	Number Hours	Oil Rate: Bbl./D	Gravity	Gas Oil Ratio
GAS PRODUCED	Rate of Flow 76 MCF/D	Tested Through (Cochran) Meter)			

REMARKS:

SHUT - IN PRESSURE DATA BEFORE FLOW TEST NO. 2

UPPER COMPLETION:	Hour & Date Well Shut-in 9-14-61	Length of Time Shut-in 21 days	Shut-in Pressure, PSIG 462	Stabilized Pressure (Yes/No)
LOWER COMPLETION:	Hour & Date Well Shut-in 9-28-61	Length of Time Shut-in 7 days	Shut-in Pressure, PSIG 462	Stabilized Pressure (Yes/No)

FLOW TEST NO. 2		Zone Producing (Upper or Lower) Upper		Hour & Date Flow Started 10-5-61	
LAPSED TIME SINCE FLOW BEGAN	FLOWING ZONE PRESSURE, PSIG	WORKING COLUMN PRESSURE, PSIG	SHUT-IN ZONE PRESSURE, PSIG	FLOWING TEMPERATURE	REMARKS
4 days	207		548		Lower zone turned on by switcher before 7 day pressures could be measured.
OIL PRODUCED	Total Bbls.	Number Hours	Oil Rate: Bbl./D	Gravity	Gas Oil Ratio
GAS PRODUCED	Rate of Flow 193 MCF/D	Tested Through (Cochran) Meter)			

REMARKS

Both zones shut-in for further testing.
Continued on next sheet.

The results of this test indicate (No Packer Leakage) (Packer Leakage) in this well.

I hereby certify that the information herein contained is true and complete to the best of my knowledge.

Approved _____ 19_____
NEW MEXICO OIL CONSERVATION COMMISSION

OPERATOR _____

BY _____

BY: _____

TITLE _____

TITLE: _____

DATE _____

Page 2

Operator El Paso Natural Gas Company		Lease Ludrick		Well No. 10 (PM)	
Location of Well: Unit A Sec. 29 Twp 30 Rge 10		County: San Juan		Type of Test: Initial _____ DATE _____ Annual 1961 YEAR	
UPPER COMPLETION:	Name of Reservoir or Pool Pictured Cliffs	Oil or Gas Gas	Flowing or Artificial Lift Flowing	Producing Casing or Tubing Casing	
LOWER COMPLETION:	Name of Reservoir or Pool Mesa Verde	Oil or Gas Gas	Flowing or Artificial Lift Flowing	Producing Casing or Tubing Tubing	

SHUT-IN PRESSURE DATA BEFORE FLOW TEST NO. 1

UPPER COMPLETION:	Hour & Date Well Shut-in 10-12-61	Length of Time Shut-in 7 days	Shut-in Pressure, PSIG 436	Stabilized Pressure (Yes or No) xxxxx
LOWER COMPLETION:	Hour & Date Well Shut-in 10-12-61	Length of Time Shut-in 7 days	Shut-in Pressure, PSIG 567	Stabilized Pressure (Yes or No) xxxxx

FLOW TEST NO. 1

Zone Producing (Upper or Lower) Lower		Hour & Date Flow Started 10-19-61			
LAPSED TIME SINCE FLOW BEGAN	SHUT-IN ZONE PRESSURE, PSIG	WORKING COLUMN PRESSURE, PSIG	FLOWING ZONE PRESSURE, PSIG	FLOWING TEMPERATURE	REMARKS
15 min.	438		205	61	
30 min.	438		185	64	
45 min.	438		169	65	
60 min.	438		160	66	
120 min.	438		133	66	
180 min.	438	(Calc.) 238	117	66	
OIL PRODUCED	Total Bbls.	Number Hours	Oil Rate: Bbl./D	Gravity	Gas Oil Ratio
GAS PRODUCED	Rate of Flow 1602 MCF/D	Tested Through (Choke xxxxxx)			



REMARKS:

SHUT-IN PRESSURE DATA BEFORE FLOW TEST NO. 2

UPPER COMPLETION:	Hour & Date Well Shut-in 10-12-61	Length of Time Shut-in 14 days	Shut-in Pressure, PSIG 458	Stabilized Pressure (Yes or No) xxxxx
LOWER COMPLETION:	Hour & Date Well Shut-in 10-19-61	Length of Time Shut-in 7 days	Shut-in Pressure, PSIG 478	Stabilized Pressure (Yes or No) xxxxx

FLOW TEST NO. 2

Zone Producing (Upper or Lower) Upper		Hour & Date Flow Started 10-26-61			
LAPSED TIME SINCE FLOW BEGAN	FLOWING ZONE PRESSURE, PSIG	WORKING COLUMN PRESSURE, PSIG	SHUT-IN ZONE PRESSURE, PSIG	FLOWING TEMPERATURE	REMARKS
15 min.	189		476	57	
30 min.	146		475	59	
45 min.	126		474	59	
60 min.	115		471	60	
75 min.	107		470	61	
180 min.	88	(Calc.) 100	471	67	
OIL PRODUCED	Total Bbls.	Number Hours	Oil Rate: Bbl./D	Gravity	Gas Oil Ratio
GAS PRODUCED	Rate of Flow 1237 MCF/D	Tested Through (Choke xxxxxx)			

REMARKS

Returned to Petroleum Engineering Department 10-26-61.

The results of this test indicate ~~no packer leakage~~ (Packer Leakage) in this well.

I hereby certify that the information herein contained is true and complete to the best of my knowledge.

Approved _____ 19
NEW MEXICO OIL CONSERVATION COMMISSION

OPERATOR **El Paso Natural Gas Company**

BY **H. L. Kendrick**

TITLE **Sr. Gas Engineer**

TITLE:

DATE **October 26, 1961**

EL PASO NATURAL GAS COMPANY

Memorandum

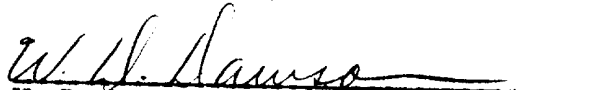
To: Mr. E. S. Oberly
From: Gas Engineering Department

Date: October 26, 1961
Place: Farmington, New Mexico

Re: Annual Packer Leakage Test of El Paso Natural Gas Company well,
Ludwick No. 10 (PM), NE Sec. 29-30-10.

The 1961 Annual Packer Leakage test, for the above named dual completed well, indicated communication between the producing zones. After further testing, completed on October 26, 1961, communication was still indicated. See attached test sheets.

This well is being returned to your Department this date for corrective action.


W. D. Dawson
Gas Engineer

WDD:bjo

cc: O.C.C. (3) ✓
W. M. Rodgers
File



NEW MEXICO OIL CONSERVATION COMMISSION
NORTHWEST NEW MEXICO PACKER - LEAKAGE TEST

FORM PL-NW-1
REVISED 6-1-59

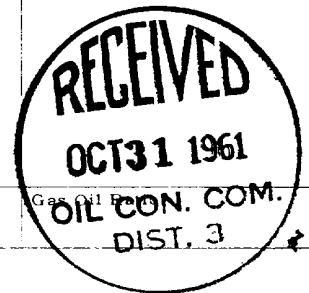
Operator El Paso Natural Gas Company			Lease Ludwick		Well No. 10 (PM)	
Location of Well: Unit A Sec. 29 Twp 30 Rge 10			County: San Juan		Type of Test: Initial _____ DATE _____ Annual 1961 YEAR	
UPPER COMPLETION:	Name of Reservoir or Pool Pictured Cliffs	Oil or Gas Gas	Flowing or Artificial Lift Flowing		Producing Casing or Tubing Casing	
LOWER COMPLETION:	Name of Reservoir or Pool Mesa Verde	Oil or Gas Gas	Flowing or Artificial Lift Flowing		Producing Casing or Tubing Tubing	

SHUT-IN PRESSURE DATA BEFORE FLOW TEST NO. 1

UPPER COMPLETION:	Hour & Date Well Shut-in 9-14-61	Length of Time Shut-in 7 days	Shut-in Pressure, PSIG 429	Stabilized Pressure (XXXX No)
LOWER COMPLETION:	Hour & Date Well Shut-in 9-14-61	Length of Time Shut-in 7 days	Shut-in Pressure, PSIG 538	Stabilized Pressure (XXXX No)

FLOW TEST NO. 1

Zone Producing (Upper or Lower) Lower		Hour & Date Flow Started 9-21-61			
LAPSED TIME SINCE FLOW BEGAN	SHUT-IN ZONE PRESSURE, PSIG	WORKING COLUMN PRESSURE, PSIG	FLOWING ZONE PRESSURE, PSIG	FLOWING TEMPERATURE	REMARKS
4 days	453		440		
7 days	427		427		
OIL PRODUCED	Total Bbls.	Number Hours	Oil Rate: Bbl./D	Gravity	Gas Oil Ratio
GAS PRODUCED	Rate of Flow 76 MCF/D	Tested Through (XXXXXX Meter)			



REMARKS:

SHUT-IN PRESSURE DATA BEFORE FLOW TEST NO. 2

UPPER COMPLETION:	Hour & Date Well Shut-in 9-14-61	Length of Time Shut-in 21 days	Shut-in Pressure, PSIG 462	Stabilized Pressure (XXXX No)
LOWER COMPLETION:	Hour & Date Well Shut-in 9-28-61	Length of Time Shut-in 7 days	Shut-in Pressure, PSIG 462	Stabilized Pressure (XXXX No)

FLOW TEST NO. 2

Zone Producing (Upper or Lower) Upper		Hour & Date Flow Started 10-5-61			
LAPSED TIME SINCE FLOW BEGAN	FLOWING ZONE PRESSURE, PSIG	WORKING COLUMN PRESSURE, PSIG	SHUT-IN ZONE PRESSURE, PSIG	FLOWING TEMPERATURE	REMARKS
4 days	207		548		
Lower zone turned on by switcher before 7 day pressures could be measured.					
OIL PRODUCED	Total Bbls.	Number Hours	Oil Rate: Bbl./D	Gravity	Gas Oil Ratio
GAS PRODUCED	Rate of Flow 193 MCF/D	Tested Through (XXXXXX Meter)			

REMARKS

Both zones shut-in for further testing.
Continued on next sheet.

The results of this test indicate (No Packer Leakage) (Packer Leakage) in this well.

I hereby certify that the information herein contained is true and complete to the best of my knowledge.

Approved _____ 19____
NEW MEXICO OIL CONSERVATION COMMISSION

OPERATOR _____

BY _____

BY: _____

TITLE _____

TITLE: _____

DATE _____

Page 2

Operator El Paso Natural Gas Company		Lease Ludwick		Well No. 10 (PM)	
Location of Well: Unit A Sec. 29 Twp 30 Rge 10		County: San Juan		Type of Test: Initial _____ DATE _____ Annual 1961 YEAR	
UPPER COMPLETION:	Name of Reservoir or Pool Pictured Cliffs	Oil or Gas Gas	Flowing or Artificial Lift Flowing	Producing Casing or Tubing Casing	
LOWER COMPLETION:	Name of Reservoir or Pool Mesa Verde	Oil or Gas Gas	Flowing or Artificial Lift Flowing	Producing Casing or Tubing Tubing	

SHUT-IN PRESSURE DATA BEFORE FLOW TEST NO. 1

UPPER COMPLETION:	Hour & Date Well Shut-in 10-12-61	Length of Time Shut-in 7 days	Shut-in Pressure, PSIG 436	Stabilized Pressure (Yes or No) XXXX
LOWER COMPLETION:	Hour & Date Well Shut-in 10-12-61	Length of Time Shut-in 7 days	Shut-in Pressure, PSIG 567	Stabilized Pressure (Yes or No) XXXX

FLOW TEST NO. 1

Zone Producing (Upper or Lower) Lower		Hour & Date Flow Started 10-19-61			
LAPSED TIME SINCE FLOW BEGAN	SHUT-IN ZONE PRESSURE, PSIG	WORKING COLUMN PRESSURE, PSIG	FLOWING ZONE PRESSURE, PSIG	FLOWING TEMPERATURE	REMARKS
15 min.	438		205	61	
30 min.	438		185	64	
45 min.	438		169	65	
60 min.	438		160	66	
120 min.	438		133	66	
180 min.	438	(Calc.) 238	117	66	
OIL PRODUCED	Total Bbls.	Number Hours	Oil Rate: Bbl./D	Gravity	
GAS PRODUCED	Rate of Flow 1602 MCF/D	Tested Through XXXXXX			

REMARKS:

SHUT-IN PRESSURE DATA BEFORE FLOW TEST NO. 2

UPPER COMPLETION:	Hour & Date Well Shut-in 10-12-61	Length of Time Shut-in 14 days	Shut-in Pressure, PSIG 458	Stabilized Pressure (Yes or No) XXXX
LOWER COMPLETION:	Hour & Date Well Shut-in 10-19-61	Length of Time Shut-in 7 days	Shut-in Pressure, PSIG 478	Stabilized Pressure (Yes or No) XXXX

FLOW TEST NO. 2

Zone Producing (Upper or Lower) Upper		Hour & Date Flow Started 10-26-61			
LAPSED TIME SINCE FLOW BEGAN	FLOWING ZONE PRESSURE, PSIG	WORKING COLUMN PRESSURE, PSIG	SHUT-IN ZONE PRESSURE, PSIG	FLOWING TEMPERATURE	REMARKS
15 min.	189		476	57	
30 min.	146		475	59	
45 min.	126		474	59	
60 min.	115		471	60	
75 min.	107		470	61	
180 min.	88	(Calc.) 100	471	67	
OIL PRODUCED	Total Bbls.	Number Hours	Oil Rate: Bbl./D	Gravity	
GAS PRODUCED	Rate of Flow 1237 MCF/D	Tested Through XXXXXX			

REMARKS

Returned to Petroleum Engineering Department 10-26-61.

The results of this test indicate ~~(Packer Leakage)~~ (Packer Leakage) in this well.

I hereby certify that the information herein contained is true and complete to the best of my knowledge.

Approved _____ 19
NEW MEXICO OIL CONSERVATION COMMISSION

OPERATOR **El Paso Natural Gas Company**
BY **H. L. Kendrick**
TITLE **Sr. Gas Engineer**
DATE **October 26, 1961**

EL PASO NATURAL GAS COMPANY

Memorandum

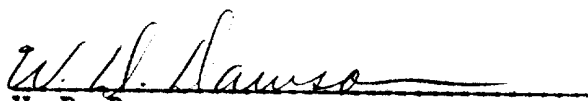
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This well is being returned to your Department this date for corrective action.


W. D. Dawson
Gas Engineer

WDD:bjo

cc: O.C.C. (3) ✓
W. M. Rodgers
File



Operator El Paso Natural Gas Company		Lease Ludwick		Well No. 10 (FM)	
Location of Well: Unit A Sec. 29 Twp 30 Rge 10		County: San Juan		Type of Test: Initial _____ DATE _____ Annual 1961 YEAR	
UPPER COMPLETION:	Name of Reservoir or Pool Pictured Cliffs	Oil or Gas Gas	Flowing or Artificial Lift Flowing	Producing Casing or Tubing Casing	
LOWER COMPLETION:	Name of Reservoir or Pool Mesa Verde	Oil or Gas Gas	Flowing or Artificial Lift Flowing	Producing Casing or Tubing Tubing	

SHUT-IN PRESSURE DATA BEFORE FLOW TEST NO. 1

UPPER COMPLETION:	Hour & Date Well Shut-in 9-14-61	Length of Time Shut-in 7 days	Shut-in Pressure, PSIG 429	Stabilized Pressure (Yes or No)
LOWER COMPLETION:	Hour & Date Well Shut-in 9-14-61	Length of Time Shut-in 7 days	Shut-in Pressure, PSIG 538	Stabilized Pressure (Yes or No)

FLOW TEST NO. 1		Zone Producing (Upper or Lower) Lower		Hour & Date Flow Started 9-21-61	
LAPSED TIME SINCE FLOW BEGAN	SHUT-IN ZONE PRESSURE, PSIG	WORKING COLUMN PRESSURE, PSIG	FLOWING ZONE PRESSURE, PSIG	FLOWING TEMPERATURE	REMARKS
4 days	453		440		
7 days	427		427		
OIL PRODUCED	Total Bbls.	Number Hours	Oil Rate: Bbl./D	Gravity	Gas Oil Ratio
GAS PRODUCED	Rate of Flow 76 MCF/D	Tested Through (Cochran) Meter)			



REMARKS:

SHUT-IN PRESSURE DATA BEFORE FLOW TEST NO. 2

UPPER COMPLETION:	Hour & Date Well Shut-in 9-14-61	Length of Time Shut-in 21 days	Shut-in Pressure, PSIG 462	Stabilized Pressure (Yes or No)
LOWER COMPLETION:	Hour & Date Well Shut-in 9-28-61	Length of Time Shut-in 7 days	Shut-in Pressure, PSIG 462	Stabilized Pressure (Yes or No)

FLOW TEST NO. 2		Zone Producing (Upper or Lower) Upper		Hour & Date Flow Started 10-5-61	
LAPSED TIME SINCE FLOW BEGAN	FLOWING ZONE PRESSURE, PSIG	WORKING COLUMN PRESSURE, PSIG	SHUT-IN ZONE PRESSURE, PSIG	FLOWING TEMPERATURE	REMARKS
4 days	207		548		Lower zone turned on by switcher before 7 day pressures could be measured.
OIL PRODUCED	Total Bbls.	Number Hours	Oil Rate: Bbl./D	Gravity	Gas Oil Ratio
GAS PRODUCED	Rate of Flow 193 MCF/D	Tested Through (Cochran) Meter)			

REMARKS
Both zones shut-in for further testing.
Continued on next sheet.

The results of this test indicate (No Packer Leakage) (Packer Leakage) in this well.

I hereby certify that the information herein contained is true and complete to the best of my knowledge.

Approved _____ 19 _____ NEW MEXICO OIL CONSERVATION COMMISSION	OPERATOR _____ BY _____ TITLE _____ DATE _____
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Page 2

Operator	El Paso Natural Gas Company		Lease	Ludwick	Well No.	10 (FM)
Location of Well:	Unit	Sec.	Twp	Rge	County:	San Juan
	A	29	30	10	Type of Test:	Initial
					DATE	Annual 1961
UPPER COMPLETION:	Name of Reservoir or Pool	Pictured Cliffs	Oil or Gas	Gas	Flowing or Artificial Lift	Flowing
					Producing Casing or Tubing	Casing
LOWER COMPLETION:	Name of Reservoir or Pool	Mesa Verde	Oil or Gas	Gas	Flowing or Artificial Lift	Flowing
					Producing Casing or Tubing	Tubing

SHUT-IN PRESSURE DATA BEFORE FLOW TEST NO. 1

UPPER COMPLETION:	Hour & Date Well Shut-in	10-12-61	Length of Time Shut-in	7 days	Shut-in Pressure, PSIG	436	Stabilized Pressure (Yes or No)	xxxx
LOWER COMPLETION:	Hour & Date Well Shut-in	10-12-61	Length of Time Shut-in	7 days	Shut-in Pressure, PSIG	567	Stabilized Pressure (Yes or No)	xxxx

FLOW TEST NO. 1

Zone Producing (Upper or Lower)		Lower		Hour & Date Flow Started		10-19-61	
LAPSED TIME SINCE FLOW BEGAN	SHUT-IN ZONE PRESSURE, PSIG	WORKING COLUMN PRESSURE, PSIG	FLOWING ZONE PRESSURE, PSIG	FLOWING TEMPERATURE	REMARKS		
15 min.	438		205	61			
30 min.	438		185	64			
45 min.	438		169	65			
60 min.	438		160	66			
120 min.	438		133	66			
180 min.	438	(Calc.) 238	117	66			
OIL PRODUCED	Total Bbls.	Number Hours	Oil Rate:	Gravity			
			Bbl./D				
GAS PRODUCED	Rate of Flow	Tested Through					
	1602 MCF/D	(Choke xxxxxx)					

REMARKS:

SHUT-IN PRESSURE DATA BEFORE FLOW TEST NO. 2

UPPER COMPLETION:	Hour & Date Well Shut-in	10-12-61	Length of Time Shut-in	14 days	Shut-in Pressure, PSIG	458	Stabilized Pressure (Yes or No)	xxxx
LOWER COMPLETION:	Hour & Date Well Shut-in	10-19-61	Length of Time Shut-in	7 days	Shut-in Pressure, PSIG	478	Stabilized Pressure (Yes or No)	xxxx

FLOW TEST NO. 2

Zone Producing (Upper or Lower)		Upper		Hour & Date Flow Started		10-26-61	
LAPSED TIME SINCE FLOW BEGAN	FLOWING ZONE PRESSURE, PSIG	WORKING COLUMN PRESSURE, PSIG	SHUT-IN ZONE PRESSURE, PSIG	FLOWING TEMPERATURE	REMARKS		
15 min.	189		476	57			
30 min.	146		475	59			
45 min.	126		474	59			
60 min.	115		471	60			
75 min.	107		470	61			
180 min.	88	(Calc.) 100	471	67			
OIL PRODUCED	Total Bbls.	Number Hours	Oil Rate:	Gravity			
			Bbl./D				
GAS PRODUCED	Rate of Flow	Tested Through					
	1237 MCF/D	(Choke xxxxxx)					

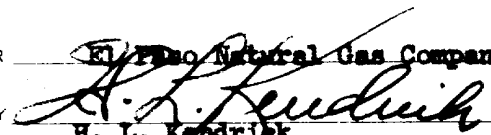
REMARKS

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BY: _____
TITLE: _____

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BY 
H. L. Kendrick
TITLE Sr. Gas Engineer
DATE October 26, 1961