

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED

Form C-122
Revised 9-1-65

AUG 3 1982

O. C. D.

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 6-27-82		ARTESIA, OFFICE	
Company Yates Petroleum Corporation				Connection Transwestern Pipeline Co.					
Pool Pecos Slope Abo				Formation Abo				Unit NM 18822	
Completion Date 3-11-82		Total Depth 4250		Plug back TD 4229		Elevation 3602.1		Farm or Lease Name Leeman OC Fed.	
Csg. Size 4 1/2"	Wt. 9.5#	d 4.090	Set At 4248	Perforations: From 3704 To 3971		Well No. 3			
Tub. Size 2 3/8"	Wt. 4.7#	d 1.995"	Set At 3690	Perforations: From To		Unit Sec. Twp. Rge. 0 14 7S 26E			
Type well - Sample - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At None		County Chaves	
Producing thru Tubing		Reservoir Temp. °F 94 @ 3838		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		State New Mexico	
L 3690	H 3690	G _g .777	% CO ₂ 14.89	% N ₂ 4.87	% H ₂ S 0	Prover --	Meter Run 2"	Taps Flanged	

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
5!							950				1 Day
1.	2.067 x .750			210	77	78	676	61			24 Hrs.
2.	2.067 x .750			300	49	78	752	62			24 Hrs.
3.	2.067 x .750			190	65	78	759	60			24 Hrs.
4.	2.067 x .750			185	43	78	810	63			24 Hrs.
5.											

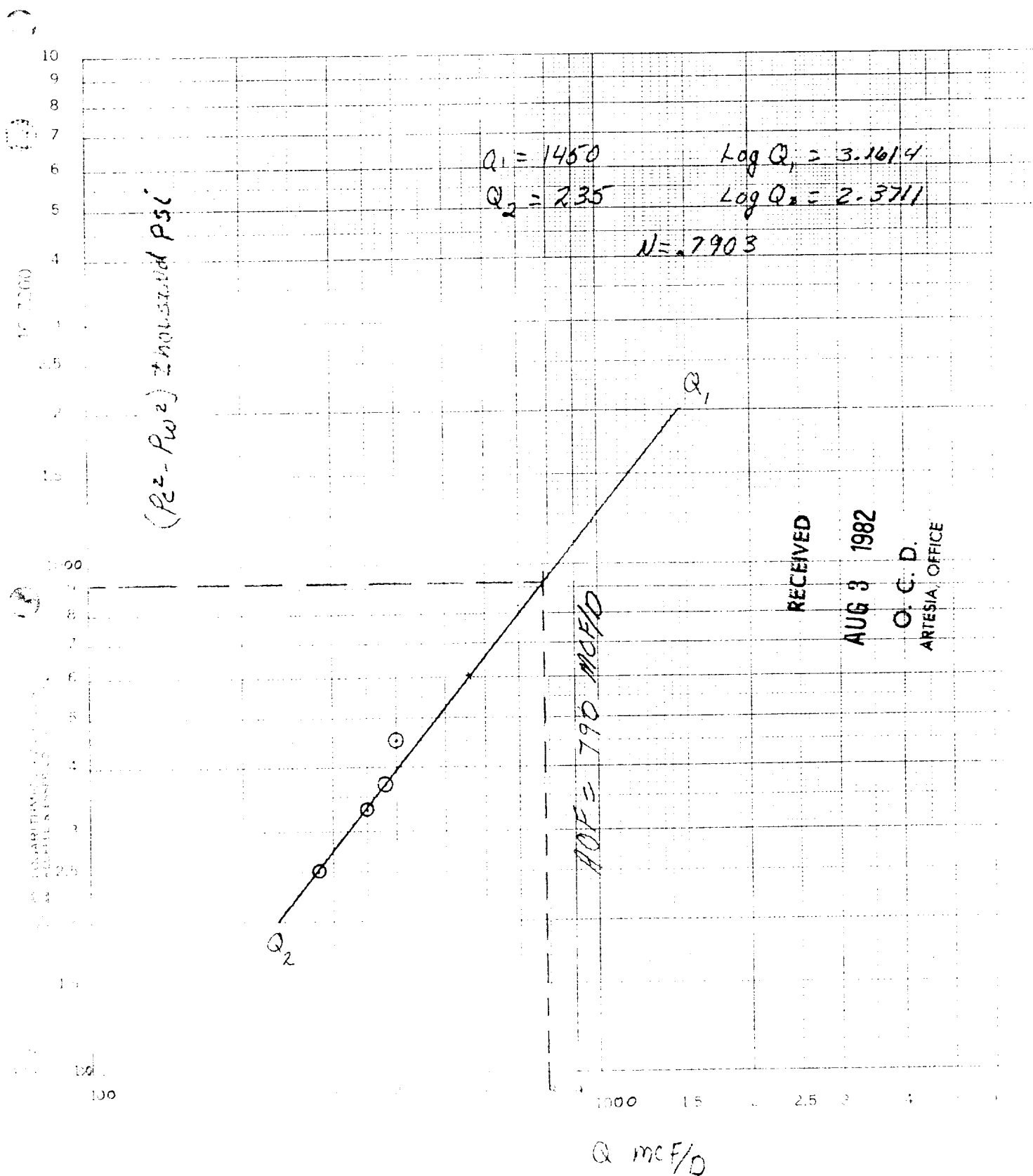
RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{sp}	Rate of Flow Q, Mcf/D
1	2.709	131.7	223.2	.9831	1.134	1.006	400
2	2.709	124.7	313.2	.9831	1.134	1.009	380
3	2.709	115.2	203.2	.9831	1.134	1.006	350
4	2.709	92.2	198.2	.9831	1.134	1.006	280
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/Lb.	
	1	.30	538	1.94	.988	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
	2	.43	538	1.94	.983	Specific Gravity Separator Gas .777
	3	.28	538	1.94	.989	Specific Gravity Flowing Fluid X X X X X
	4	.27	538	1.94	.989	Critical Pressure 723 P.S.I.A. P.S.I.A.
5					Critical Temperature 378 R	

P _r 963.2	P _w 927.8	(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 1.546$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.411$
NO.	P _r	P _w	P _r ² - P _w ²
1	475		477.8
2	585		557.8
3	595		597.8
4	676		677.8
5			

Absolute Gas Flow 790 MCF/D		Angle of Slope θ _____		Slope, n 7903	
Remarks: Static pressure by Bennett Wireline, flowing pressure by DWT calculations.					
Worksheet C-122D attached.					
Approved By: _____		Conducted By: David Weaver		Checked By: Scott Yates	

Leeman OC Fed #2



W. H. R. & Co.
COMPANY

LEASE.

Learn to Fe.

WELL NO. _____

DATE:

7-29-52

LOCATION: Unit:

Section_

Township

Range -

3

11

747

2.777

$$\frac{14.80}{\text{CO}_2}$$

22

$$\frac{\% \text{H}_2\text{S}}{\text{C}}$$

1.905 F 014231 CH 242713

TABLE IX, A X

100

[illegible]