

# DELIVERABILITY TEST

Gillam Draw: Well No. P. R. # 7

Location: S.W.  $\frac{1}{4}$  S.E.  $\frac{1}{4}$  Sec. 4 - T 1 N - R 101 W Rio Blanco County, Colorado

Start Flow Test: 3:30 P.M. Jan. 17, 1976; Finish Flow Test: 5:30 P.M. Jan. 20, 1976

Duration of Flow Test: 74 hrs., total: Producing Thru: Casing

Casing Size: 5  $\frac{1}{2}$  " ; Tubing Size: 2.875 " ; Production Depth:

Perforations From: To: ; Prover Size: 2 "

Pressure Base: 14.65 #; Atmos. Pressure: 12.00 #; Temp. Base: 60°F.;

$$Q = F_p \times F_t \times F_g \times F_{pv} \times P_b \times P_m$$

<u>Symbol</u>	<u>Definition</u>	<u>Flow Rate #1</u>	
$F_p$	Orifice Plate Coeff.	.875"	13.00
$F_t$	Flowing Gas Temp.	67°F.	.9933
$F_g$	Specific Gravity Gas	.628	1.262
$F_{pv}$	Super-compressibility		1.0038
$P_b$	Pressure Base Factor $\frac{15.025}{14.650}$		1.0256
$P_m$	Prover Pressure p.s.i.a.		62.00
$Q$	MCF/day		1041
	Duration of Flow	74 hrs.	
$P_c$	Shut-in Pressure p.s.i.a.		139.3
$P_c^2$	( in thousands )		19.404
$P_w$	Prover Pressure p.s.i.a.		62.00
$P_w^2$	( in thousands )		3.844
$P_d$	Deliverability Pressure p.s.i.a.		27.00
$(P_c^2 - P_w^2)$	( in thousands )		15.560
$D$	Deliverability @ 15.00# Surface Pressure p.s.i.g.		

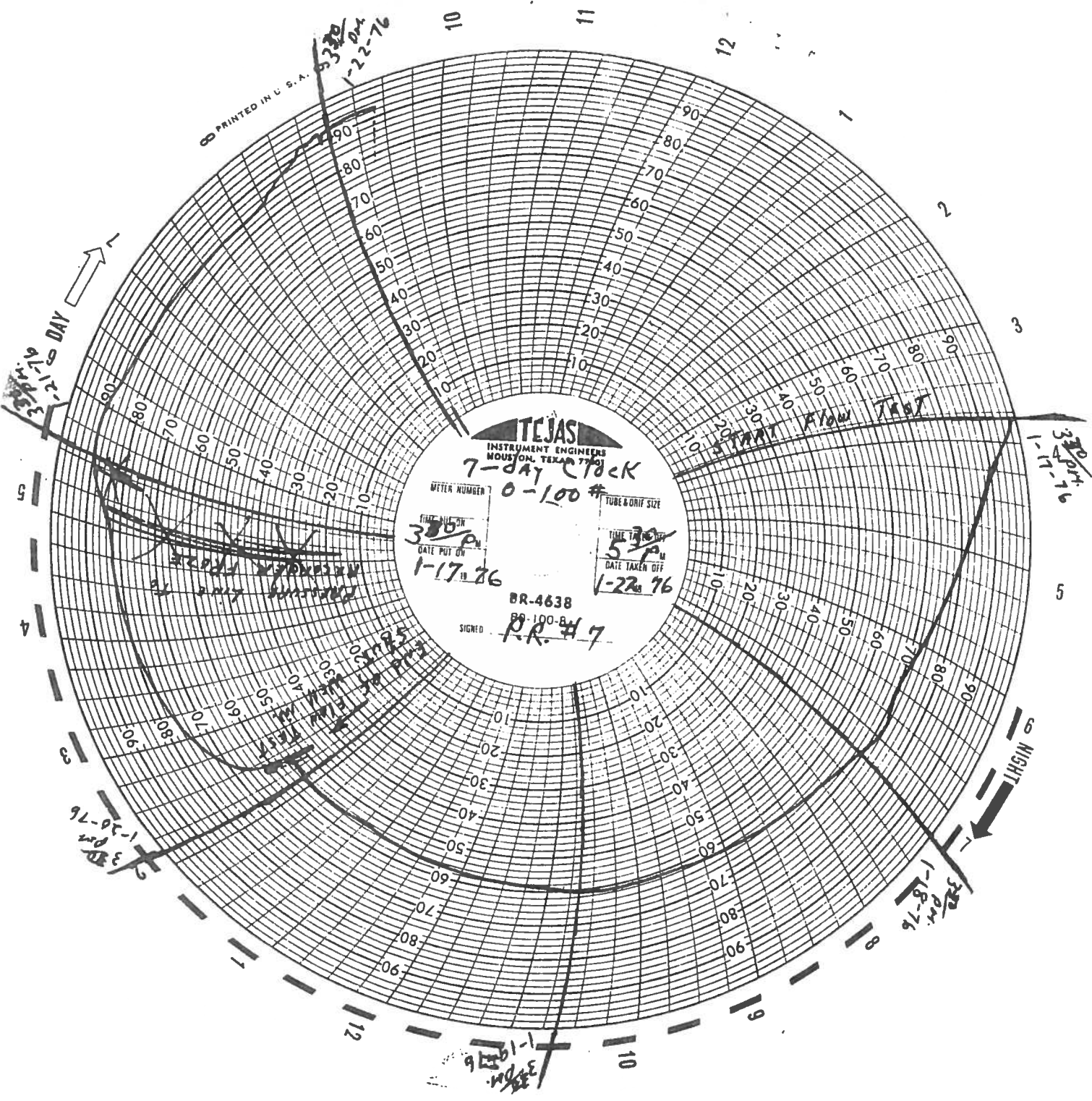
$$D = Q \left[ \frac{P_c^2 - P_d^2}{P_c^2 - P_w^2} \right]^{.746} = 1041 \left[ \frac{19.404 - 0.729}{19.404 - 3.844} \right]^{.746} = 1041 ( 1.200 )^{.746}$$

$$D = 1041 \times 1.146 = 1193 \text{ MCF/ day}$$

"n" Exponent determined from 3-point back-pressure test on P. R. # 8

TESTED By:  
Trenton Day

PRINTED IN U.S.A.

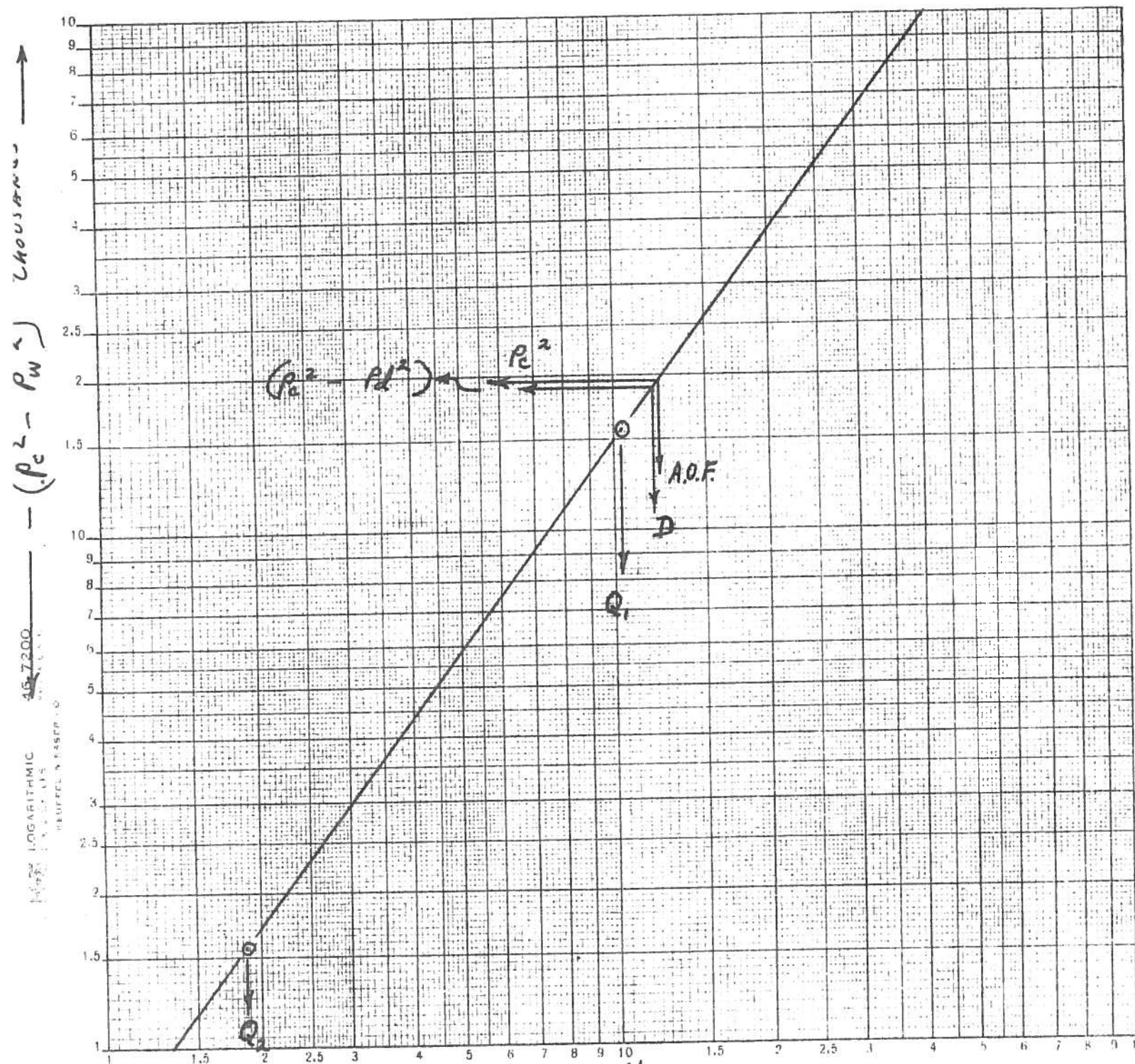


JAN. 20, 1916

TESTED: TRENTON DAY

P.R. #7

LOCATION. SW 1/4 SE 1/4  
SEC. 4 - T1 N - R101 W  
RIO BLANCO, COUNTY  
COLORADO



$$Q_1 = 1041 \quad \text{and} \quad \log Q_1 = 3.0175$$

$$Q_2 = 186.85 \quad \text{and} \quad \log Q_2 = \frac{2.2715}{0.7460}$$

$$\text{A.O.F.} = 1,220 \text{ MCF/d.}$$

$$\text{Deliverability @ 15\% P.S.G.} = 1,193 \text{ MCF/day}$$