

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

Form C-122
Revised 9-1-65

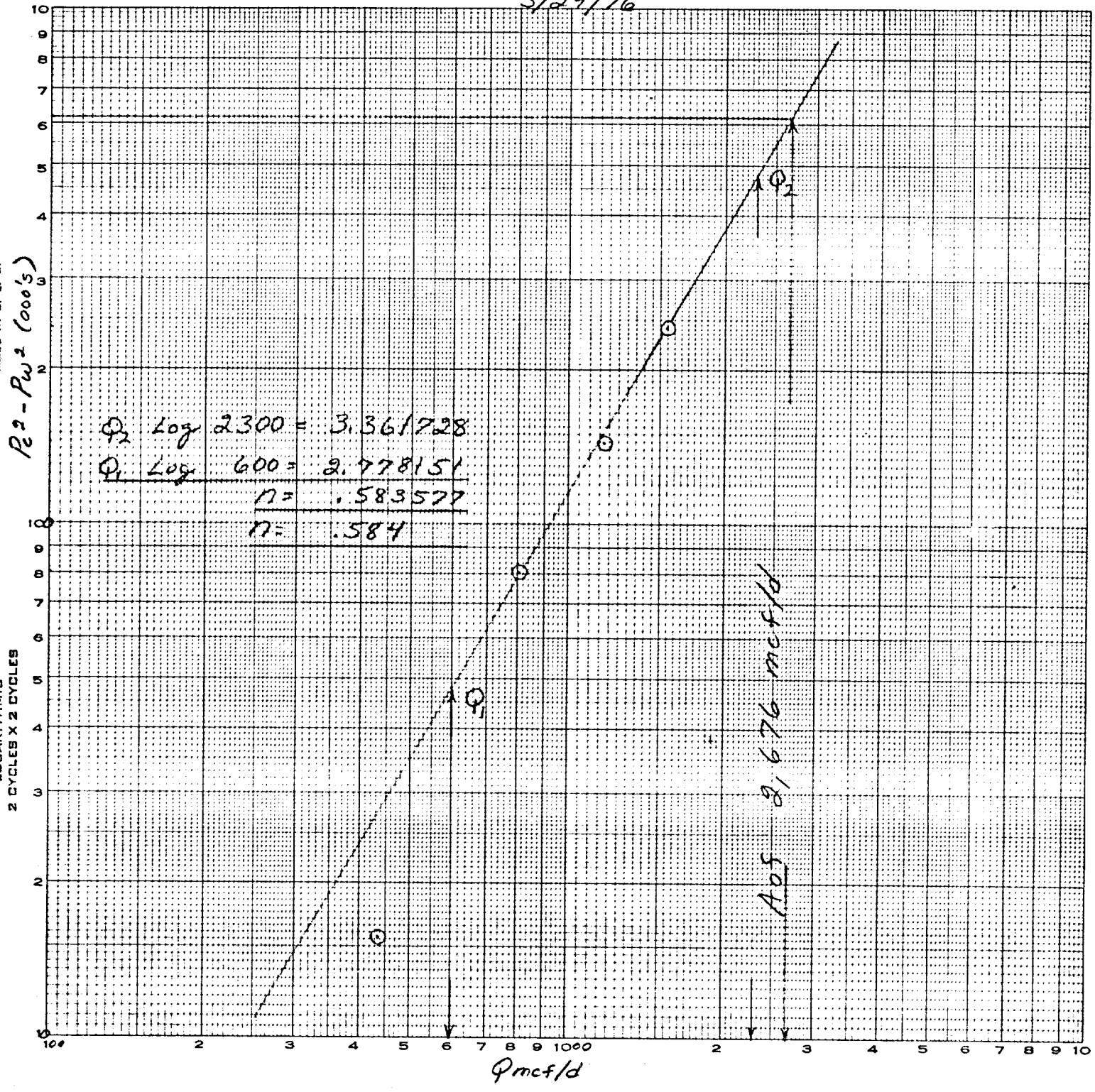
Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special				Test Date 3-29-76							
Company Phillips Petroleum Company			Connection El Paso Natural Gas Company								
Pool Blinebry			Formation Blinebry		Unit L						
Completion Date 1/16/76		Total Depth 6468		Plug Back TD 6180	Elevation 3332' RKB						
Farm or Lease Name Sims		Well No. 5									
Csq. Size 5 1/2"	Wt. 14 & 17	d 5.012 4.892	Set At 6467	Perforations: From 5363 To 5793							
Tbg. Size 2 3/8"	Wt. 4.7	d 1.995	Set At 5850	Perforations: From 5817 To 5817							
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single				Packer Set At 5850' w/plug in place							
Producing Thru Tbg. L		Reservoir Temp. °F 118 @ 5800		Mean Annual Temp. °F 60							
Baro. Press. - P ₁ 13.2		State New Mexico									
Gg 5817	H 5817	Cg 677	% CO ₂	% N ₂	% H ₂ S						
Prover	Meter Run 4"	Taps	Flg.								
FLOW DATA			TUBING DATA		CASING DATA						
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI							691		773		72 hr.
1.	4	x	1.750	108	4.84	66	685		763		30 Min.
2.	4	x	1.750	109	16.00	60	670		720		1 hr.
3.	4	x	1.750	110	33.64	55	603		675		1 hr.
4.	4	x	1.750	115	56.25	55	460		600		1 hr.
5.											
RATE OF FLOW CALCULATIONS											
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd				
1	14.93	24.22	121.2	.9943	1.215	Nil	437				
2	14.93	44.22	122.2	1.000	1.215	Nil	802				
3	14.93	64.38	123.2	1.005	1.215	Nil	1174				
4	14.93	84.92	128.2	1.005	1.215	Nil	1548				
5											
NO.	R ₁	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio <u>dry</u> Mcf/bbl.						
1.	.18	526	1.37	Nil	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.						
2.	.18	520	1.35	Nil	Specific Gravity Separator Gas <u>.677</u> XXXXXXXXXX						
3.	.18	515	1.34	Nil	Specific Gravity Flowing Fluid <u>XXXXX</u>						
4.	.19	515	1.34	Nil	Critical Pressure <u>669</u> P.S.I.A. _____ P.S.I.A.						
5.					Critical Temperature <u>385</u> _____ R _____ R						
P _c 786.2 P _c ² 618.1											
NO.	P ₁ ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.553$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.729$				
1		776.2	602.5	15.6							
2		733.2	537.6	80.5							
3		688.2	473.6	144.5							
4		613.2	376.0	242.1	ACTUAL = $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.676$						
5											
Absolute Open Flow <u>2,676</u> Mcfd @ 15.025				Angle of Slope θ <u>59.75°</u>				Slope, n <u>.584</u>			
Remarks:											
Approved By Commission: <i>John W. Kenyon</i>			Conducted By: Rick Pagan			Calculated By: Rick Pagan			Checked By: <i>D.E. Simpson</i> D.E. Simpson		

Phillips
 Sims # 5 (Blinbry)
 24-22-37 Lea Co.
 Aof 2,676 mcf/d $n = .584$

3/29/76

EUGENE DIETZGEN CO.
 MADE IN U. S. A.

NO. 341-L22 DIETZGEN GRAPH PAPER
 LOGARITHMIC
 2 CYCLES X 2 CYCLES



Aof 2,676 mcf/d