

N . MEXICO OIL CONSERVATION COMM . ON
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

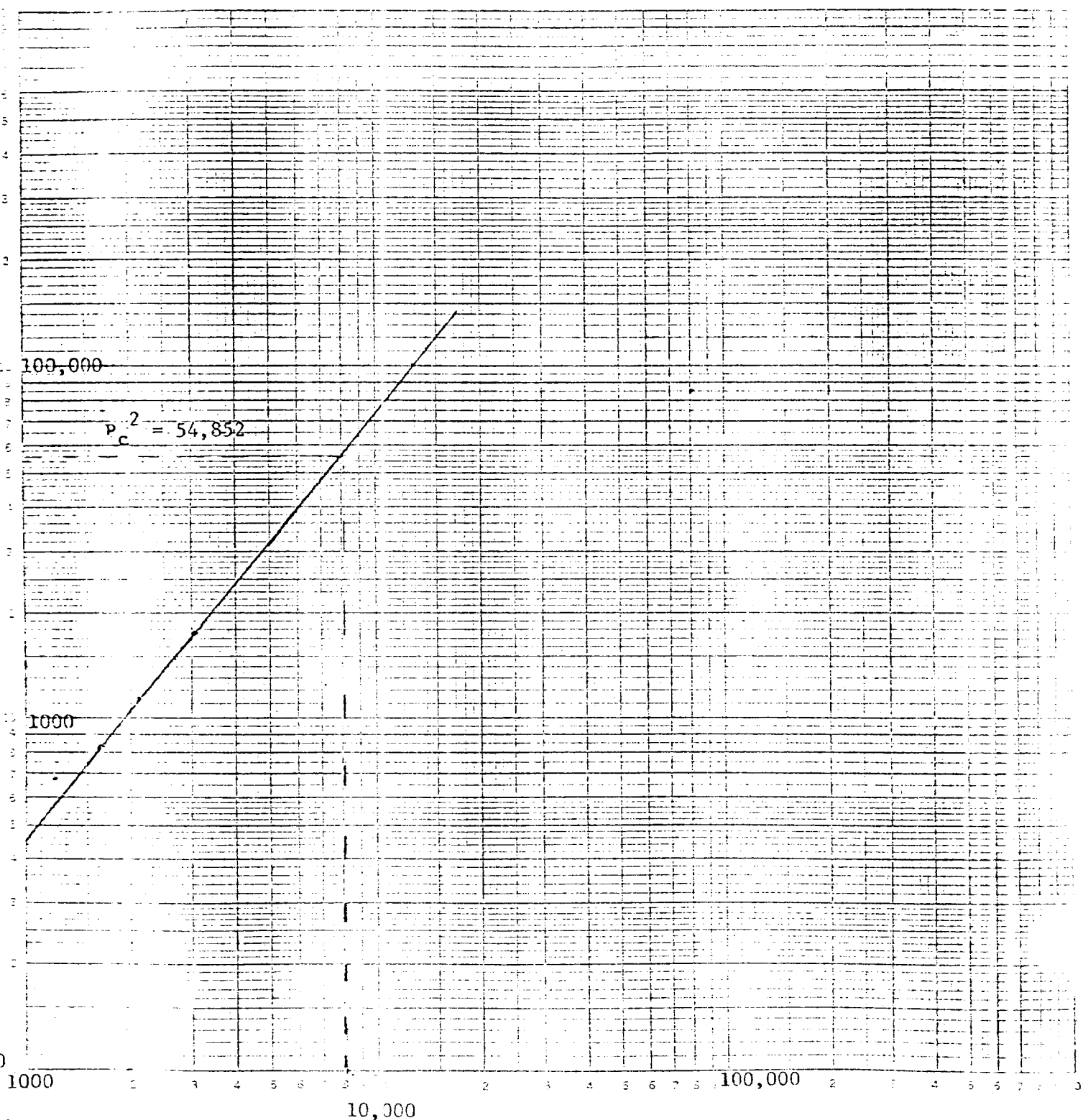
Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special					Test Date					
Company Getty Oil Company				Connection El Paso						
Pool East Gramma Ridge-Morrow				Formation Morrow						
Completion Date 11-23-80		Total Depth 13,170		Plug Back TD 13,087		Elevation 3671 G.L.		Farm or Lease Name Getty 25 State		
Csg. Size 4 1/2	Wt. 13.5	d 3.795	Set At 13,170	Perforations: From 12,930 To 12,966		Well No. 1				
Tbg. Size 2 3/8	Wt. 4.7	d 1.995	Set At 12,494	Perforations: From To		Unit Sec. Twp. Rge. N 25 21-S 34-E				
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Morrow Gas/Single					Packer Set At 12,494		County Lea			
Producing Thru Tubing		Reservoir Temp. *F 175 @ 13,170		Mean Annual Temp. *F 60		Baro. Press. - P _a 13.2		State N.M.		
L 12,494	H 12,494	Cg .6777	% CO ₂ .856	% N ₂ 1,059	% H ₂ S ---	Prover ---	Meter Run 3"	Taps Flange		
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.
SI							5575	96	Packer	
1.	3" * 6 1/2/64		815		4	53	5175	95		
2.	3" * 7 1/4/64		750		8	60	5075	94		
3.	3" * 8 1/2/64		750		14	55	4850	93		
4.	3" * 10 1/2/64		780		25	48	4450	92		
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	15.61	57.55	828.2	1.007	1.215	1.102	1211			
2	15.61	78.14	763.2	1.000	1.215	1.093	1620			
3	15.6	103.37	763.2	1.005	1.215	1.093	2154			
4	15.61	140.82	793.2	1.012	1.215	1.114	3011			
5										
NO.	P _i	Temp. *R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/hbl.					
1.	1.24	513	1.33	.824	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.					
2.	1.14	520	1.35	.837	Specific Gravity Separator Gas _____				X X X X X X X X	
3.	1.14	515	1.34	.837	Specific Gravity Flowing Fluid _____				X X X X X	
4.	1.19	508	1.32	.806	Critical Pressure 669 _____ P.S.I.A.		_____ P.S.I.A.			
5.					Critical Temperature 385 _____ R		_____ R			
P _c 7406.2		P _c ² 54,852								
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 4.84$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.73$			
1		6940.2	48,166	6686						
2		6820.2	46,515	8,337						
3		6596.2	43,510	11,342						
4		6128.2	37,555	17,297						
5					AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 8034$					
Absolute Open Flow 8034 Mcfd @ 15.025					Angle of Slope θ _____			Slope, n = .835		
Remarks: Bottom hole pressures measured at mid-point of perf.										
Approved By: _____			Conducted By: Bill Krafft			Calculated By: Peter J. Botes			Checked By: Dale R. Crockett	

4674

46 7403

$P_c - P_w$ Thousands, psf
CONVERTED TO FEET BY
DIV. OF HYDRAULIC ENGINEERING

1000



AOF=8034

Q, MCFPD

NO. 10

FEB 12 1958