

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

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 2-3-77	
Company Phillips Petroleum Company				Connection El Paso Natural Gas Co.		
Pool Blinebry				Formation Blinebry		Unit ---
Completion Date 1-19-77		Total Depth 7250		Plug back TD ---		Elevation 3335.5 RKB
Farm or Lease Name Sims						
Csg. Size 5-1/2	Wt. 14 & 17	d 4.892	Set At 6996	Perforations: From 5142 To 5735		Well No. 2
Tub. Size 2-3/8	Wt. 4.7	d 1.995	Set At 6336	Perforations: From To		Unit Sec. Twp. Rge. E 24 22-S 37-E
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Dual--				Packer Set At 6307		County Lea
Producing Thru Annulus		Reservoir Temp. °F 150 @ 7250		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2
State New Mexico						
L 5142	H 5142	Gg .683	% CO ₂	% N ₂	% H ₂ S	Prover Meter Run L" 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.		Temp. °F
SI							Packer in		663	39	
1.	4.00 x 1.5			22.8	1.0	46	well.		649	45	1
2.	4.00 x 1.5			25.2	4.0	42			636	49	1
3.	4.00 x 1.5			29.1	11.6	42			610	53	1
4.	4.00 x 1.5			33.0	15.2	49			512	57	1
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 _{pv}	Rate of Flow Q, Mcfd
1	11.82	6.00	36.0	1.015	1.210	1.016	88
2	11.82	12.39	38.4	1.011	1.210	1.016	182
3	11.82	22.15	42.3	1.007	1.210	1.015	618
4	11.82	46.2	46.2	1.003	1.210	1.015	672
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1	.053	505	1.31	.969	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2	.057	509	1.32	.969	Specific Gravity Separator Gas .683 XXXXXXXXXX
3	.063	513	1.33	.970	Specific Gravity Flowing Fluid .669 XXXXXX
4	.069	517	1.34	.970	Critical Pressure _____ P.S.I.A. P.S.I.A.
5					Critical Temperature _____ R R

P _r 676.2	P _w 457.2	
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NO.	P _r	P _w	P _r ²	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 3.0767$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 2.688$
1	438.5	666.2	438.5	18.7			
2	421.5	619.2	421.5	35.7			
3	388.4	623.4	388.4	68.8			
4	308.2	555.5	308.6	148.6			
5							

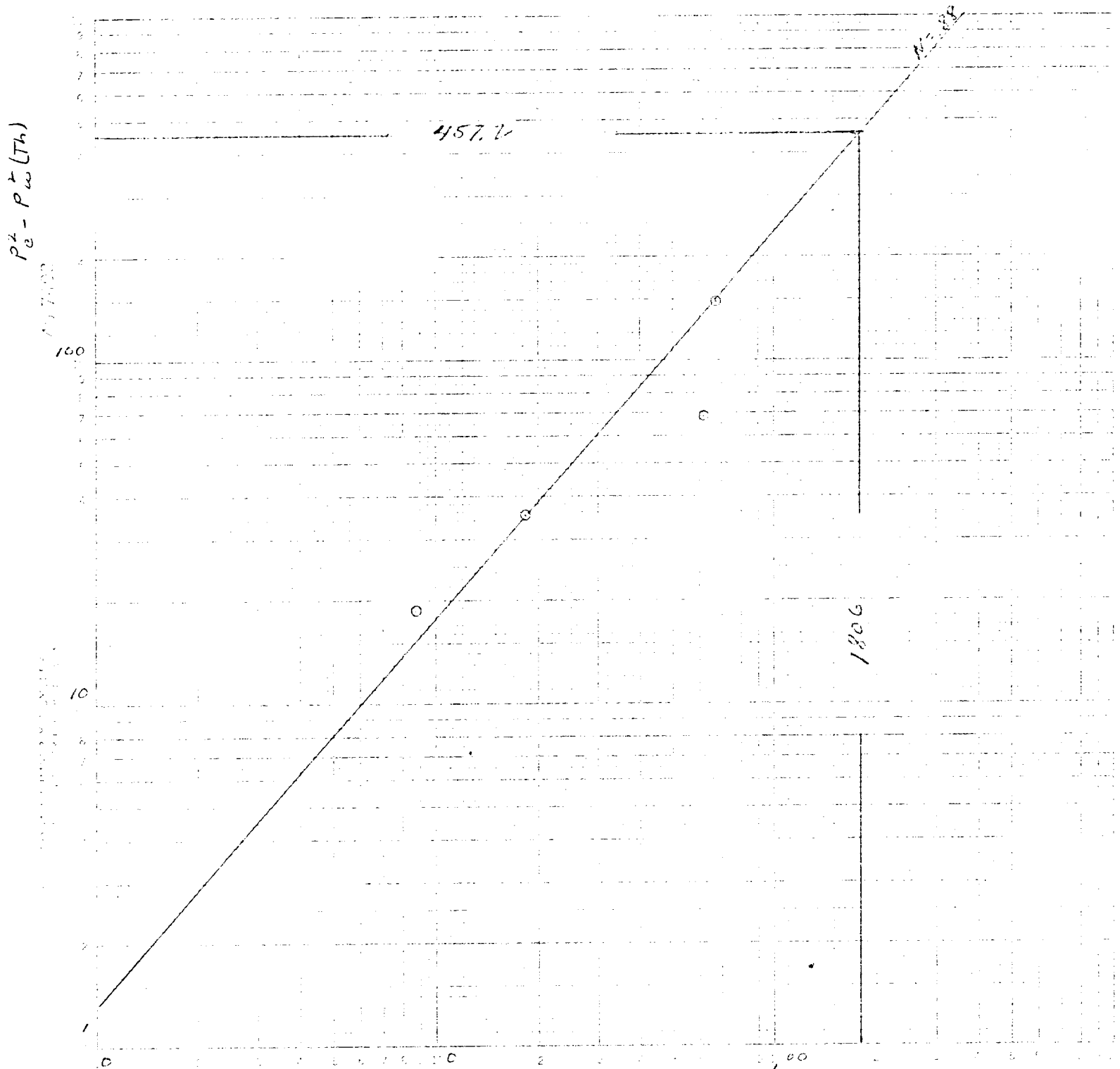
ACF = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1806$	
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Absolute Open Flow 1806	Mcf @ 15.025	Angle of Slope G 48.5	Slope, n 88
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Remarks: Calculation made by computer.

Approved By:	Conducted By: Don Thorn	Calculated By: D. E. Simpson	Checked By:
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Phillips Petroleum Company
 Sims No. 2
 E, 24, 22-S, 37-E, Lea County
 Blinberry-Gas
 2-3-77



$Q = \text{MCFD}$