

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

Form C-122
Revised 9-1-65

Type Test: ☒ Initial ☐ Annual ☐ Special						Test Date: 11-21-75			
Company: Phillips Petroleum Company				Connection: Phillips Petroleum Company					
Pool: Lusk Morrow-Gas				Formation: Morrow				Unit: ---	
Completion Date: 1-3-75		Connected (10-27-75)		Total Depth: 12817		Plug Back TD: 12759		Elevation: 3581 Gr., 3594 DD	
Csg. Size: 5-1/2"		Wt. 17#, 20#		d .5		Set At: 12814		Perforations: From 12684 To 12696	
Tub. Size: 2-7/8		Wt. 6.5		d 2.441		Set At: 12251		Perforations: From --- To ---	
Type Well - Single - Prodenhead - G.G. or C.O. Multiple: Single						Packer Set At: 12200		County: Lea	
Producing Thru Tubing		Reservoir Temp. °F: 179 @ 12,800		Mean Annual Temp. °F: 60		Baro. Press. - P _a : 13.2		State: New Mexico	
L: 12251		H: 12251		G _g : .675		% CO ₂		% N ₂	
						% H ₂ S		Prover	
								Meter Run: 4x2.50	
								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.		Temp. °F
SI							2560	14	Packer		48 Hrs.
1.	4.026		2.50	549	2.0	60	2411	64			1
2.	4.026		2.50	564	3.9	60	2339	62			1
3.	4.026		2.50	564	6.8	60	2141	64			1
4.	4.026		2.50	564	11.0	58	1821	59			1
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 _{spv}	Rate of Flow Q, Mscf
1	32.64	33.53	562.2	1.000	1.217	1.067	1421
2	32.64	47.45	577.2	1.000	1.217	1.067	2011
3	32.64	62.65	577.2	1.000	1.217	1.067	2655
4	32.64	82.89	577.2	1.002	1.217	1.065	3810
5							

NO.	P _i	Temp. °R	T _i	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1.	.84	520	1.36	.878	27,100 Mcf/bbl.	59.1 Deg.	.675	XXXXXXX	669 P.S.I.A.	383 R
2.	.86	520	1.36	.878				XXXXXXX	666 P.S.I.A.	417 R
3.	.86	520	1.36	.878				XXXXXXX		
4.	.86	518	1.35	.875						
5.										

NO.	P _i ²	P _w ²	R _w ²	P _i ² - R _w ²	(1) $\frac{P_i^2}{P_i^2 - R_w^2} = \frac{7146}{3638}$	(2) $\left[\frac{P_i^2}{P_i^2 - R_w^2} \right]^n = \frac{1.848}{1.848}$
1	5876.7	2429.1	5900	1246		
2	5532.8	2362.2	5580	1566		
3	4640.6	2172.7	4721	2425		
4	3364.3	1877.5	3525	3638		
5						

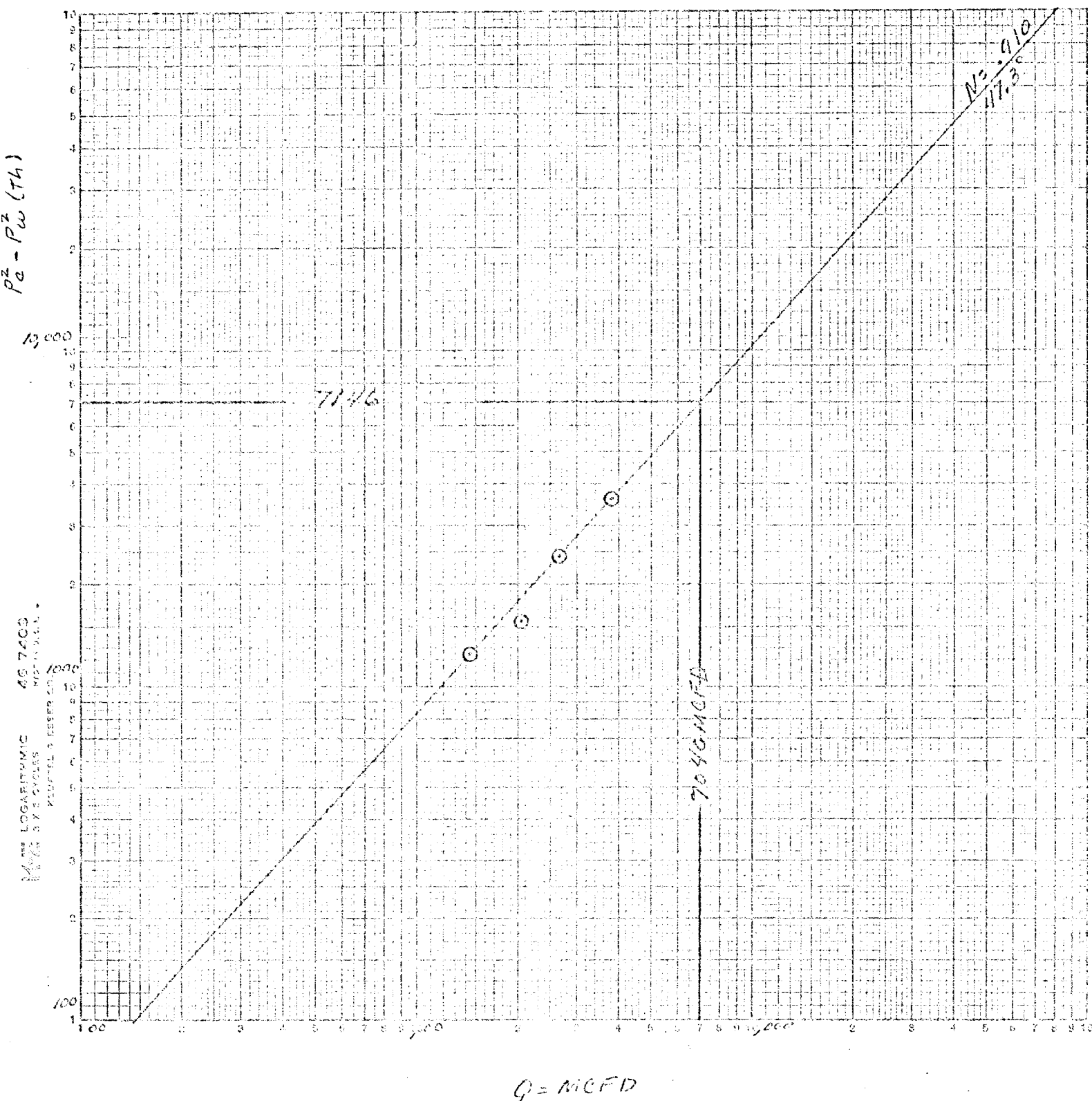
Absolute Open Flow: 7040 Mcf @ 15.025				Angle of Slope @ 47.3		Slope, u .910	
Remarks: Calculation made by Electronic Calculator. Program based on New Mexico Manual for Back-Pressure testing.							
Approved By: <i>[Signature]</i>		Conducted By: R. E. Lee		Checked By: <i>[Signature]</i>		W. J. Mueller	

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DEC 4 1975

OIL CONSERVATION COMM.
HOBBS, N. M.

Phillips Petroleum Company
Lusk Deep Unit A #12
G, 20, 19S, 32E
Lea County
11-21-75



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