

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

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 4/5/73		MAY 21 1973			
Company McClellan Oil Corporation					Connection None					O. C. C.	
Pool Wildcat					Formation					Unit ARTESIA, OFFICE	
Completion Date 3/10/73			Total Depth 2436		Plug Back TD 2432		Elevation 3703 DF		Farm or Lease Name Hinkle Federal		
Csg. Size 4 1/2		Wt. 9.5#	d 4.090	Set At 2430	Perforations: From 2362 To 2370			Well No. 1			
Tbg. Size None		Wt.	d	Set At	Perforations: From To			Unit A	Sec. 9	Twp. 25S	Rge. 29E
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At None		County Eddy			
Producing Thru Casing		Reservoir Temp. °F 88 @ 2362		Mean Annual Temp. °F 60°		Baro. Press. - P _a 13.2		State New Mexico			
L 2362	H 2362	G _g .782	% CO ₂ -	% N ₂ 44.61	% H ₂ S -	Prover X	Meter Run		Taps		

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
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	
SI									903		72
1.	2	X	1/16	891		61			891	61	1
2.	2	X	7/32	736		64			736	64	1
3.	2	X	1/4	693		66			693	66	1
4.	2	X	7/16	426		66			426	66	1
5.											

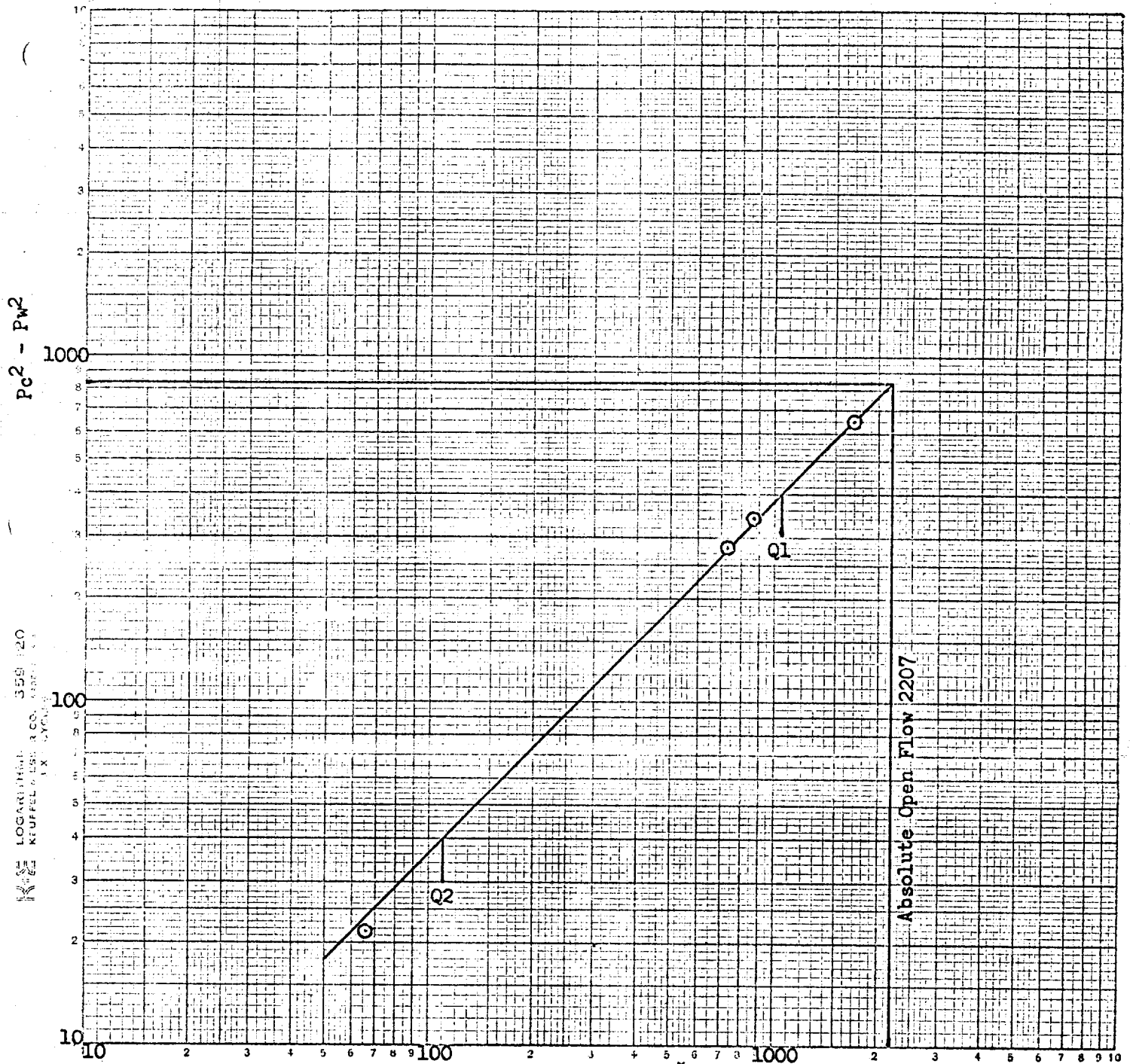
RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super. Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	.06405		904.2	.9990	1.131	1.039	68
2.	.8393		749.2	.9962	1.131	1.031	730
3.	1.087		706.2	.9943	1.131	1.029	888
4.	3.408		438.2	.9943	1.131	1.019	1711
5.							

NO.					Gas Liquid Hydrocarbon Ratio TSTM Mcf/bbl.				
					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.				
1.					Specific Gravity Separator Gas .782 XXXXXXXXXX				
2.					Specific Gravity Flowing Fluid XXXXX				
3.					Critical Pressure 595 P.S.I.A. _____ P.S.I.A.				
4.					Critical Temperature 294 R _____ R				
5.									

P _c 916.2		P _c ² 839.4		(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.297$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.290$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²			
1			817.6	21.8			
2			561.3	278.1			
3			498.7	340.7			
4			192.0	647.4			
5							

Absolute Open Flow 2207 Mcfd @ 15.025		Angle of Slope @ _____		Slope, n .980	
Remarks: Friction negligible					
Approved By Commission:		Conducted By: <i>Rafael A. Quinn</i>		Checked By:	

McClellan Oil Corporation
 Hinkle Federal No. 1
 Unit A, Section 9, T17S, R29E
 Eddy County, New Mexico
 April 5, 1973



Q MCFPD

RECEIVED
 MAY 18 1973
 U.S. GEOLOGICAL SURVEY
 ALBUQUERQUE, NEW MEXICO

Log $Q1 = 3.021189$
 Log $Q2 = 2.041393$
 Log $Q3 = 0.979796$