

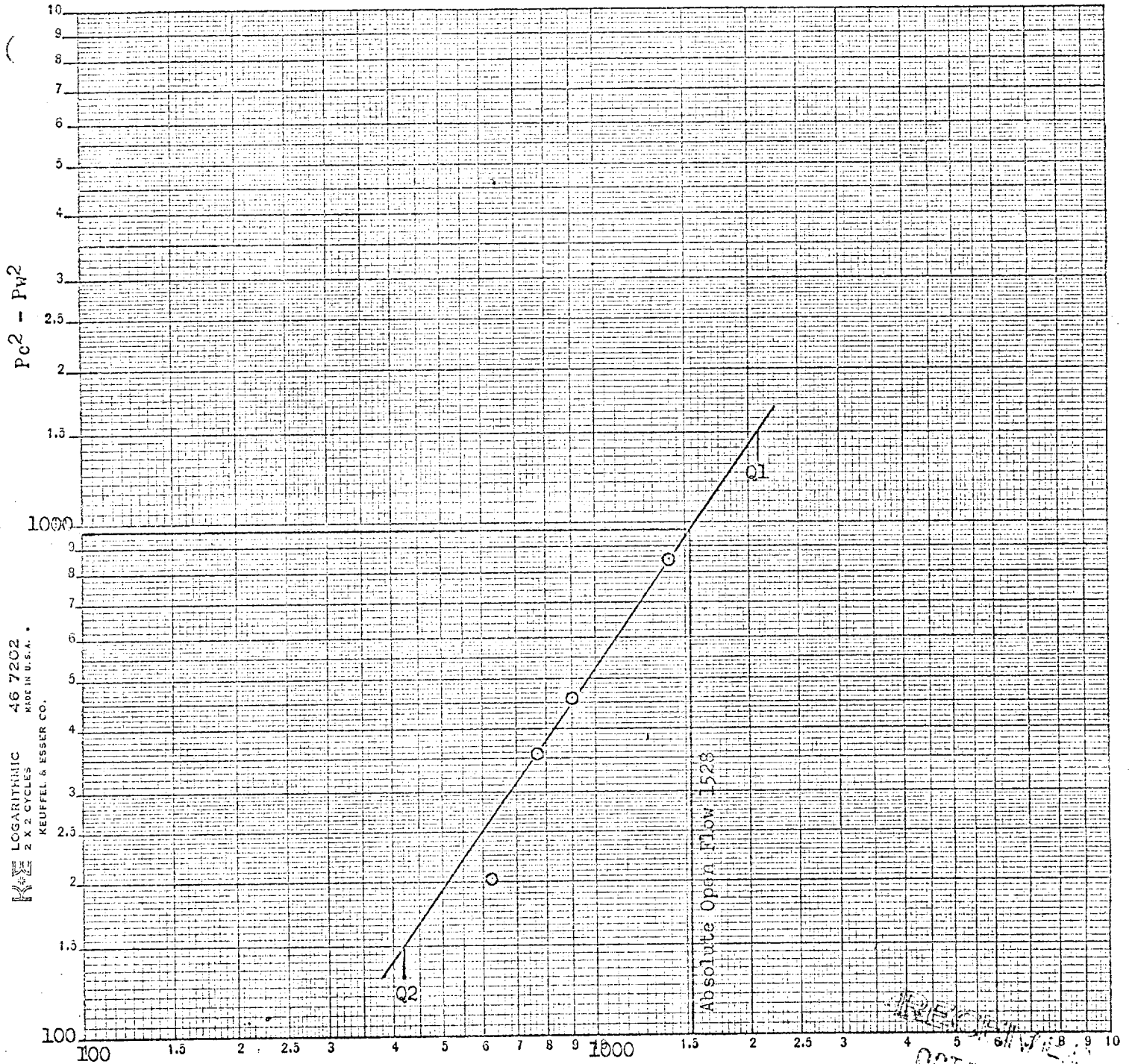
NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 10/2/73		OCT 17 1973	
Company McClellan Oil Corporation				Connection None		Unit O.C.C.	
Pool Wildcat				Formation Premier Sand		Unit ARTESIA, OFFICE	
Completion Date 9/14/73		Total Depth 2350		Plug Back TD 2320		Elevation 3699 GR	
Farm or Lease Name June Federal		Well No. 1					
Csg. Size 5 1/2	Wt. 15.5#	d 4.950	Set At 2320	Perforations: From 2277 To 2298		Well No. 1	
Tbg. Size 2 3/8	Wt. 4.7#	d 1.995	Set At 2248	Perforations: From To		Unit Sec. Twp. Rge. 4 16S 29E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At None		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 88 @ 2200		Mean Annual Temp. °F 60°		Baro. Press. - P _a 13.2	
State New Mexico		Prover X					
L 2277		H 2277		G _g .7518		% CO ₂ 0.17	
				% N ₂ 38.46		% H ₂ S -	
FLOW DATA				TUBING DATA			
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.
1.	2	x	3/16	858		69	858
2.	2	x	7/32	766		69	766
3.	2	x	1/4	690		71	690
4.	2	x	1/2	268		70	268
5.							
RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft	Gravity Factor Fg	Super Compress. Factor Fpv	Rate of Flow Q, Mcfd
1.	0.6082		871.2	.9915	1.153	1.039	628
2.	0.8393		779.2	.9915	1.153	1.035	774
3.	1.087		703.2	.9896	1.153	1.031	899
4.	4.279		281.2	.9905	1.153	1.013	1392
5.							
TSTM							
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.		
1.	1.44	529	1.75	.927	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.		
2.	1.29	529	1.75	.934	Specific Gravity Separator Gas .7518 X X X X X X X X		
3.	1.15	531	1.76	.941	Specific Gravity Flowing Fluid X X X X X		
4.	0.47	530	1.75	.974	Critical Pressure 603 P.S.I.A. _____ P.S.I.A.		
5.					Critical Temperature 302 R _____ R		
$P_c = 986.2$ $P_c^2 = 972.6$							
NO.	P _r ²	P _w	R _w ²	P _c ² - R _w ²	$(1) \frac{P_c^2}{P_c^2 - R_w^2} = 1.143$		
1.		877.2	769.5	203.1	$(2) \left[\frac{P_c^2}{P_c^2 - R_w^2} \right]^n = 1.098$		
2.		784.2	615.0	357.6			
3.		717.2	514.4	458.4			
4.		349.2	121.9	850.7			
5.							
Absolute Open Flow 1528 Mcfd @ 15.025					Angle of Slope 55°3' slope, n .699		
Remarks:							
Approved By Commission:		Conducted By: <i>R. J. Green</i>		Calculated By: <i>Donna Miller</i>		Checked By:	

McClellan Oil Corporation
 June Federal No. 1
 Unit 0, Section 4, T16S, R29E
 Eddy County, New Mexico
 October 2, 1973



Q MCFPD

Log $Q1 = 3.322219$
 Log $Q2 = 2.623249$
 $n = 0.698970$

RELEASED
 OCT 18 1973
 U.S. GEOLOGICAL SURVEY
 ARTESIAN, NEW MEXICO