

MAR 30 RECD

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLForm C-122
Revised 9-1-65

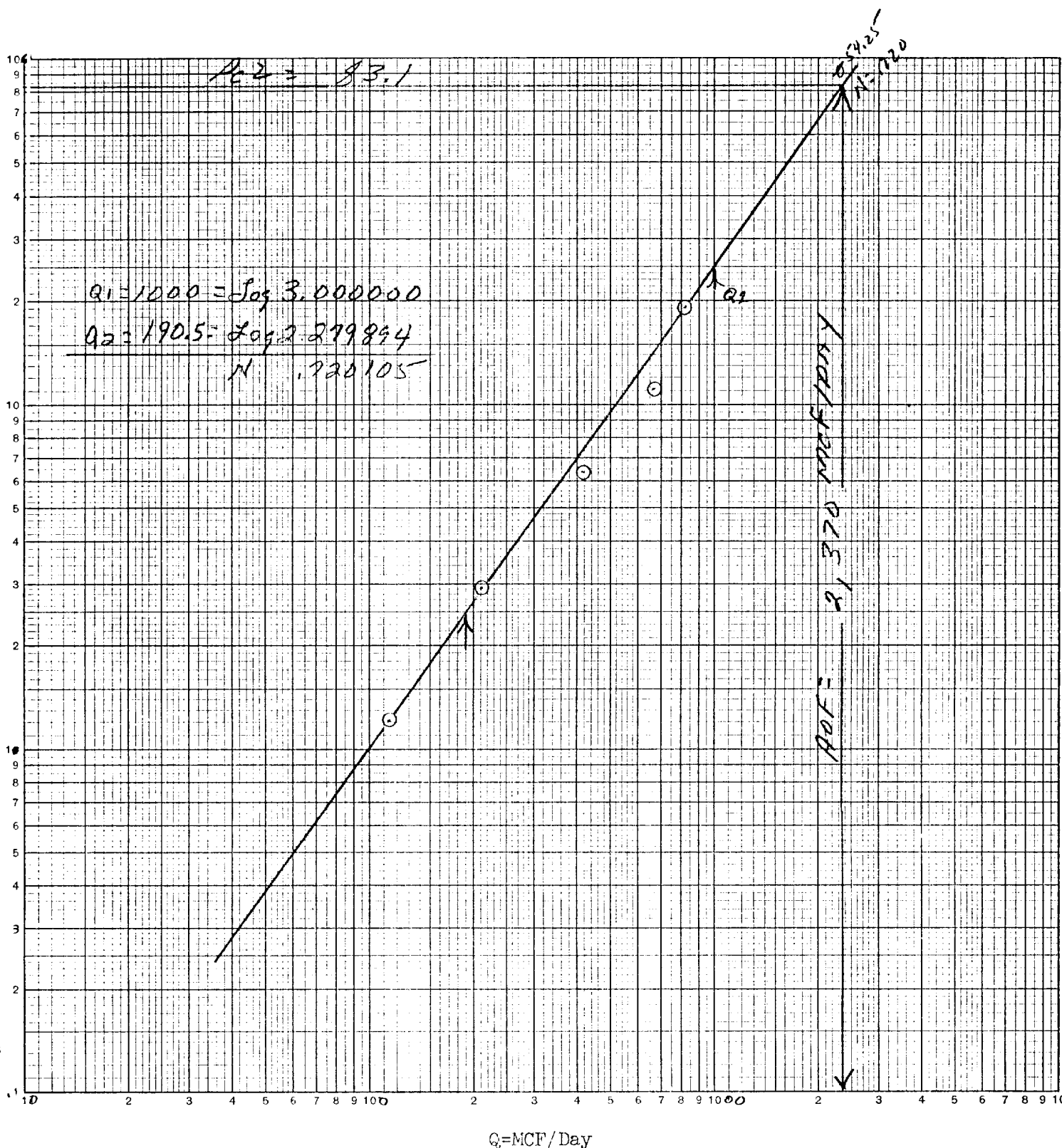
Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 3-23-78		SPUD DATE: 2-22-78	
Company Kern Company				Correction None			
Pool Eumont				Formation Yates, 7-Rivers, Queens (Gas)		Unit J	
Completion Date 3-23-78		Total Depth 4205		Plug Back TD 4154		Elevation 3485 GL	
Casing Size 4 1/2		WT. 10.5		Set At 4205		Perforations: From 3580 To 3676	
Tubg. Size 2 3/8		WT. 4.7		Set At 3630		Perforations: From Open To End	
Type Well - Single - Frothead - G.G. or G.O. Multiple Single				Packer Set At None		County Lea	
Producing Thru Tbg.		Reservoir Temp. °F 8		Mean Annual Temp. °F 13.2		State New Mexico	
L 3630		H 3630		Gg .685		% CO ₂ % N ₂ % H ₂ S Prover	
						Meter Run 2" Orifice Well Tester	
FLOW DATA				TUBING DATA		CASING DATA	
NO.	Flow Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Duration of Flow
SI	OWT						72 hrs.
1.	2	x	1/2	11		60	30 Min.
2.	2	x	1/2	27		60	30 Min.
3.	2	x	1.00	9		60	45 Min.
4.	2	x	1.00	19		60	45 Min.
5.	5	x	1.250	11.5		60	60 Min.
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							114
2	VOLUMES CALCULATED FROM ORIFICE WELL TESTER TABLES.						211
3							417
4							672
5							819
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 33.301 Mcf/bbl.		
1		520		Nil	A.P.I. Gravity of Liquid Hydrocarbons 36.5 @ 60		
2		520		Nil	Specific Gravity Separator Gas .685		
3		520		Nil	Specific Gravity Flowing Fluid X X X X X		
4		520		Nil	Critical Pressure P.S.I.A.		
5		520		Nil	Critical Temperature R		
P _r 288.2 P _w 83.1					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 4.374$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.893$		
NO.	P _r	P _w	P _r ²	P _w ²	A.M.F. = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.370$		
1		286.2	81.9	1.2			
2		283.2	80.2	2.9			
3		277.2	76.8	6.3			
4		268.2	71.9	11.2			
5		253.2	64.1	19.0			
Absolute Open Flow 2,370 Mcfd @ 15.625					Angle of Slope @ 54.25		Slope, n .720
Remarks: Made 2.250 Bbl./oil during test.							
Approved By: Commission		Conducted By:		Calculated By:		Checked By:	

KERN COMPANY

Goins No. 1
J-7-21-37 Ler County, New Mexico
March 23, 1978

K₂ - K₂ IN THOUSDS

K₂ LOGARITHMIC 46 7400
3 X 3 CYCLES MADE IN U.S.A.
KEUFFEL & ESSER CO.



Q₂ = MCF/Day