

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: 11/1/78		NOV - 9 1978	
Company: MONSANTO COMPANY				Connection: LLANO, INC.				O. C. C.
Pool: N. Burton Flat (Wolfcamp)				Formation: Wolfcamp				Unit: ARTESIA, OFFICE I
Completion Date: 6/16/78		Total Depth: 11,540		Plug Back TD: 11,170		Elevation: 3210 KB		Form or Lease Name: Burton Flat Unit
Csg. Size: 5 1/2"	Wt.: 17	d: 4.892	Set At: 11,540	Perforations: From 9538 To 9552		Well No.: 7		
Tbg. Size: 2 7/8"	Wt.: 6.5	d: 2.441	Set At: 9329	Perforations: From To		Unit Sec. Twp. Rge: I 33 20S 28E		
Type Well - Single - Bradenhead - G.C. or G.O. Multiple: Single					Packer Set At: 9329		County: Eddy	
Producing Thru: Tubing		Reservoir Temp. °F: 145 @ 9550		Mean Annual Temp. °F: 60°		Baro. Press. - P _a : 13.2		State: New Mexico
L: .9545	H: 9545	G _g : .700	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run: X	Taps

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							3050	88			1656 Hr
1.	4.00 x 1.00			260	2	99	420		0		24 Hrs.
2.											
3.											
4.											
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, Mcd
1	4.753	23.375	273.2	.9645	1.195	1.092	140
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	.47	559	1.04	.838	A.P.I. Gravity of Liquid Hydrocarbons: 48.0	48.0
2.					Specific Gravity Separator Gas: .700	XXXXXXX
3.					Specific Gravity Flowing Fluid: XXXXX	1.366
4.					Critical Pressure: 668 P.S.I.A.	650 P.S.I.A.
5.					Critical Temperature: 392 °R	537 °R

NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²
1		442.5	196	9187
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.02133$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 143$

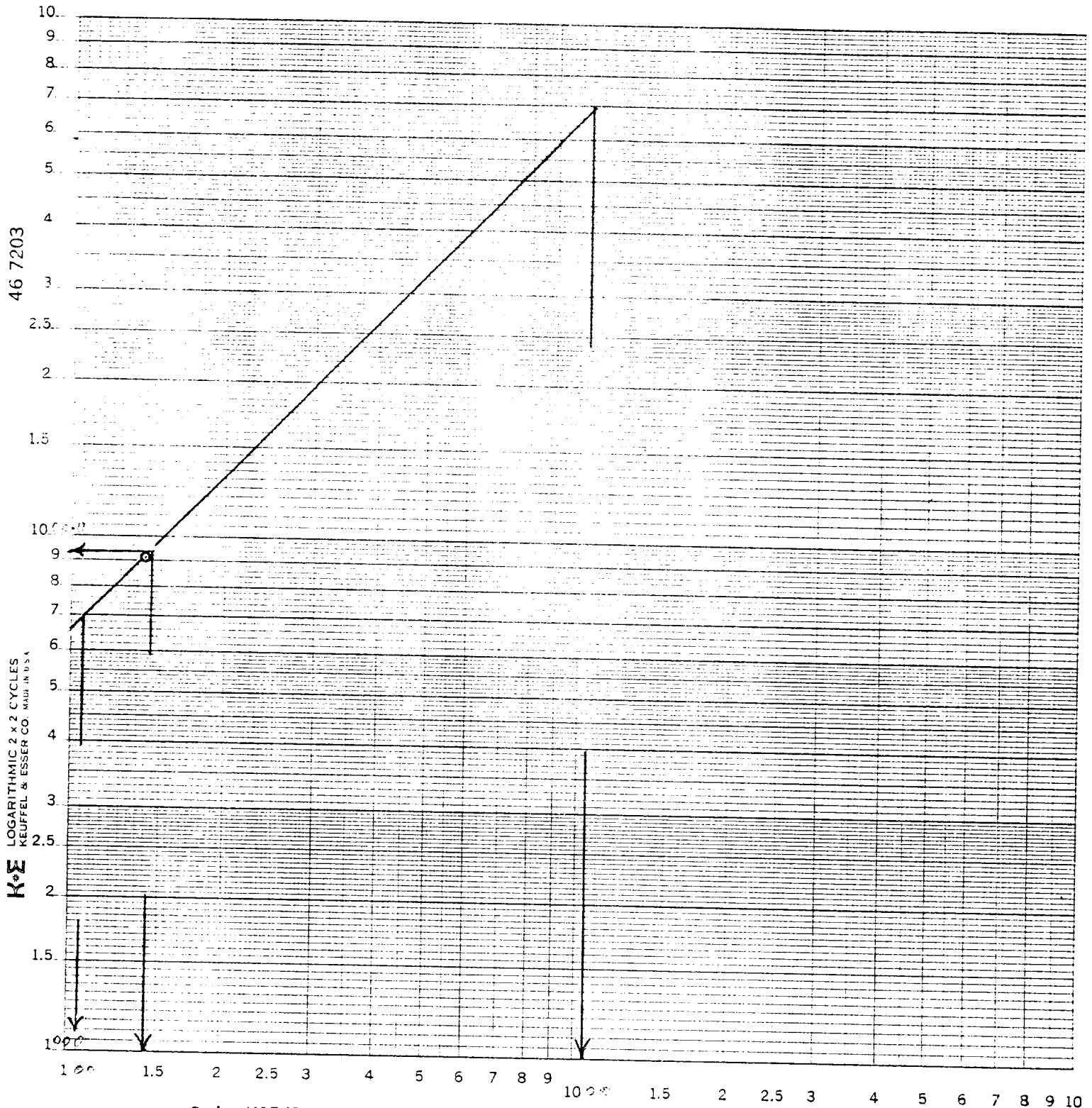
(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.02133$

Absolute Open Flow: 143 Mcd @ 15.025	Angle of Slope: 45°	Slope, n: 1.00
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Remarks:

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
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LEASE: Burton Flat Unit
 WELL NO. 7
 FIELD: North Burton Flat (Wolfcamp)
 County: Eddy
 Date: 11/1/78



Q1 = 1050 MCF/Day Log Q1 = 3.02119
 Q2 = 105 MCF/Day Log Q2 = 2.02119
 1.00000

θ = 45°
 N = 1.00

ABSOLUTE OPEN FLOW 142 MCF/DAY