

RECEIVED BY 49F

NOV 16 1983

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 6/30/83		RECEIVED BY 49F NOV 16 1983 O. C. D. Unit: ARTESIA, OFFICE	
Company MONSANTO OIL COMPANY ✓		Connection Transwestern			
Pool Wildecat		Formation Strawn			
Completion Date 6/30/83		Total Depth 9556' 9566'		Plug Back TD 8182' 8920'	
Elevation 3503' Gr.		Form or Lease Name Albert Federal		Well No. 1	
Csg. Size 5.5"	Wt. 20	d 4,778"	Set At 9566'	Perforations: From 8268' To 8666'	
Tbg. Size 2,875"	Wt. 6.5	d 2,441"	Set At 9177'	Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single Completion				Packer Set At 8182'	
Producing Thru Tubing		Reservoir Temp. °F 150 @ 8182'		Mean Annual Temp. °F 60	
Baro. Press. - P ₀ 13.2		State New Mexico		County Eddy	
L .8182'	H 8182'	G _g 0.6	% CO ₂ 0.6	% N ₂ 0.8	% H ₂ S 0.00
Prover X		Meter Run X		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							800	50			24 Hrs.
1.	2"	0.5"	60	4"	50	450	50	0	50	1 Hr.	
2.	2"	0.5"	60	10"	50	400	48	0	50	1 Hr.	
3.	2"	0.5"	60	14"	50	350	48	0	50	1 Hr.	
4.	2"	0.5"	60	20"	50	300	50	0	50	1 Hr.	
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{sp}	Rate of Flow Q, Mcfd
1	1.19	17.11	73.2	1.0098	1.2975	1.0064	18
2.	1.19	27.06	73.2	1.0117	1.2975	1.0063	35
3.	1.19	32.01	73.2	1.0117	1.2975	1.0063	37
4.	1.19	38.26	73.2	1.0098	1.2975	1.0063	45
5.							

NO.	P _c	Temp. °R	T _r	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.	0.11	506	1.43	0.986	0	0	0.6	XXXXXXX	674	353
2.	0.11	509	1.43	0.986	0	0	0.6	XXXXX	674	353
3.	0.11	509	1.43	0.986	0	0	0.6	XXXXX	674	353
4.	0.11	509	1.43	0.986	0	0	0.6	XXXXX	674	353
5.										

NO.	P _c	P _w	P _w ²	P _c ² - P _w ²
1	220	460	220	13
2	180	415	190	41
3	145	340	140	65
4	110	340	140	105
5				

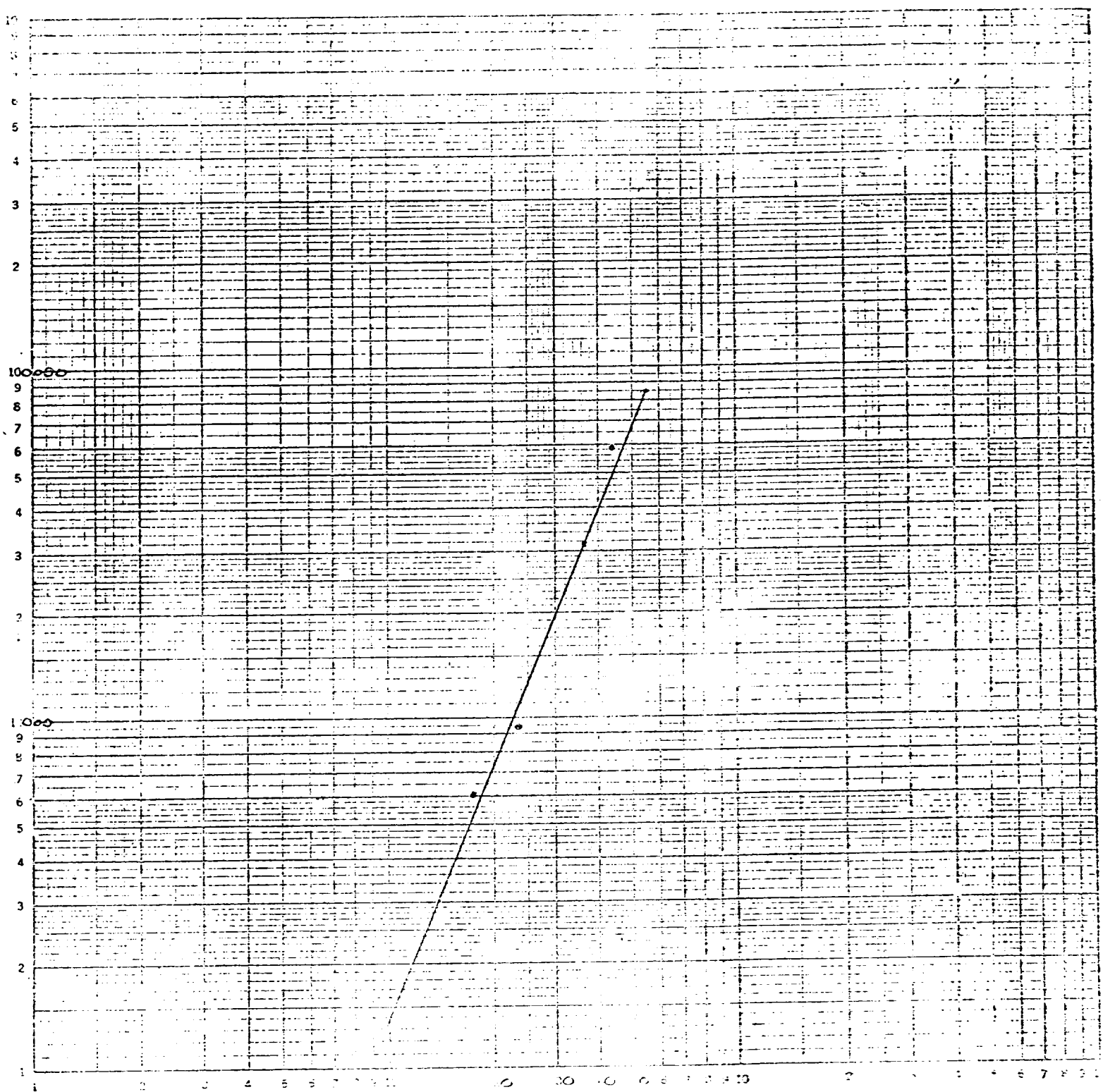
(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.8411$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.2115$	
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 55$			

Absolute Open Flow	55	Mcf @ 15.025	Angle of Slope	65	Slope, n	0.5
Remarks:						
Approved By Commission:		Conducted By:		Calculated By:		Checked By:
Cecil Patterson		Hal Crabb				

1500 Hilbert Federal
 Well No. 1
 Field: Wildcat
 County: 2111

46 7403

MSZ LOGARITHMIC
 PLOT OF P_{wf} vs Q



Q, mcf/d

Absolute Open Flow, SS mcf/d