

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

Form C-122
Revised 9-1-61

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 2/19/81	
Company Monsanto Company		Connection None	
Pool Antelope Ridge (Atoka)		Formation Atoka	
Completion Date 2/15/81		Total Depth 14,150'	Flag Back TD 13,155'
		Elevation GL 3496	Form or Lease Name Back Basin Unit
Csg. Size 5"	Wt. 23.2	d 4.044	Set At 14,150
Tbg. Size 2 7/8"	Wt. 6.5	d 2.441	Set At 11,967
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At PBR @ 11,967	Well No. 1
Producing Thru 2 7/8" Tbg.	Reservoir Temp. °F 168 ⁰ @ 14,150	Mean Annual Temp. °F 60 ⁰	Unit I Sec. 20 Twp. 23S Rge. 34E
Buro. Press. - P _a		County Lea	State New Mexico
L 12839	H 12839	G _g .705	% CO ₂ .02 % N ₂ .09 % H ₂ S
Prover		Meter Run 4.026	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							2750	62			24
1.	4.026 x 1.000			400	15	86	2325	68			1
2.	4.026 x 1.000			400	29	110	2075	76			1
3.	4.026 x 1.000			400	52	110	1725	80			1
4.	4.026 x 1.000			400	76	108	1250	82			1
5.											

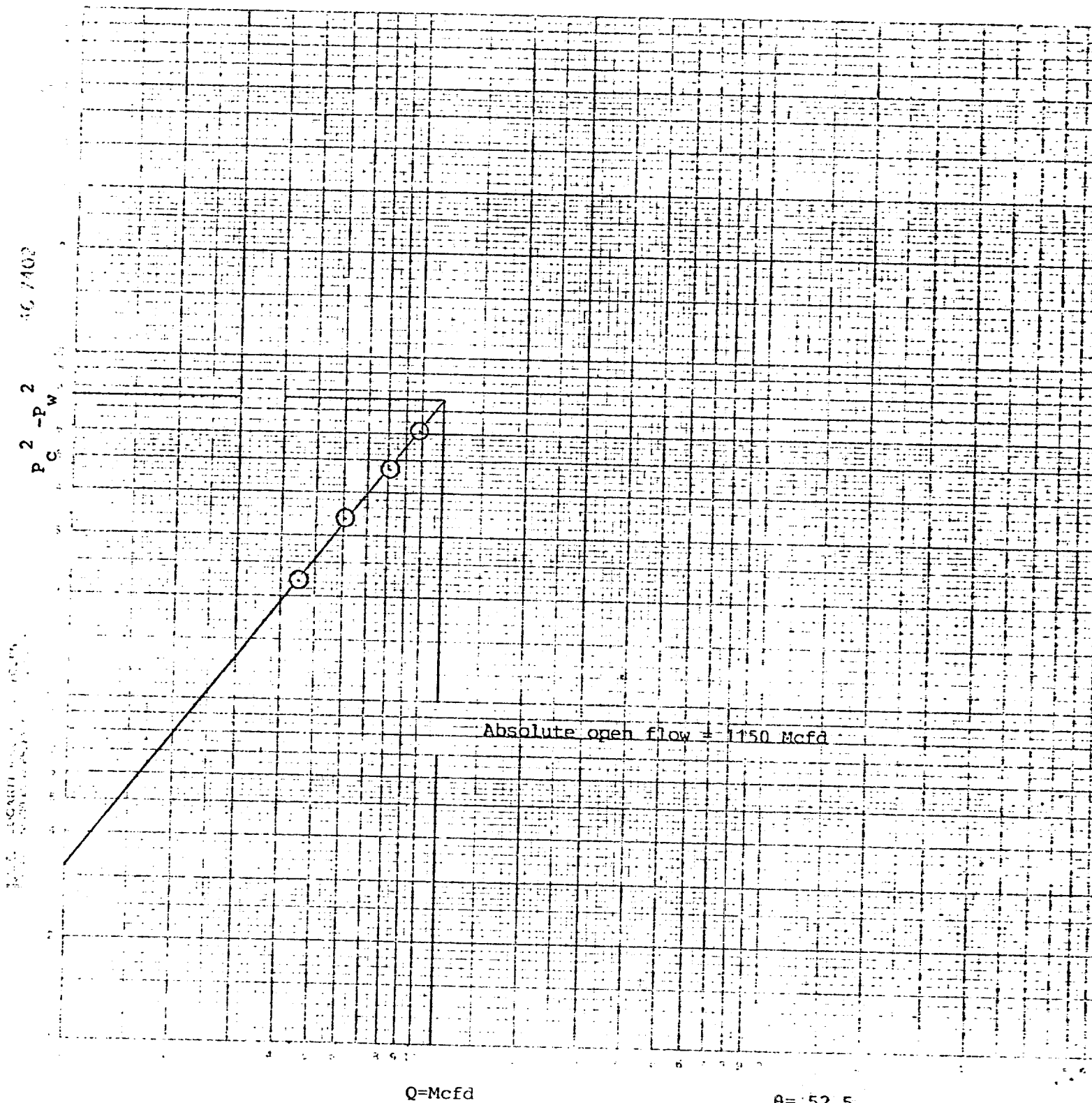
RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compres. Factor, F _{pv}	Rate of Flow O. Mcf/d
1	4.75	78.73	413.2	.9759	1.1912	1.0422	453
2	4.75	109.47	413.2	.9551	1.1912	1.0369	614
3	4.75	146.58	413.2	.9551	1.1912	1.0369	822
4	4.75	177.21	413.2	.9568	1.1912	1.0374	996
5							

NO.	P _t	Temp. °R	T _f	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	.62	546	1.40	.921			.705	X X X X X X X X	667	391
2	.62	570	1.46	.930				X X X X X	667	391
3	.62	570	1.46	.930					667	391
4	.62	568	1.45	.929					667	391
5										

P _c 2756.5 P _c ² 7598		(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.2554$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1961$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	
1	5467	2318	5374	2224	
2	4361	2055	4223	3375	
3	3021	1705	2905	4693	
4	1596	1243	1546	6052	
5					

Absolute Open Flow		1150	Mcf/d @ 15.025	Angle of Slope	52.5	Slope, n	.767
Remarks							
Approved by Commission:							
Conducted By:		Calculated By:		Checked By:			

Company Monsanto Company
 Well Back asin Unit #1
 Location _____
 County Lea
 Date 2/16/81



Q=Mcfd

$\theta = 52.5$
 $n = .767$