

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

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 6/3/85			
Company Amoco Production Company				Connection			
Pool Bravo Dome Carbon Dioxide Gas Unit 640 Acre Area				Formation Tubb		Unit BDCDGU	
Completion Date 4/28/81		Total Depth 2723'		Plug Back TD 2670'		Elevation 4505 GL	
Csg. Size 5-1/2"	Wt. 14#	d	Set At 2718'	Perforations: From 2164' To 2187'		Well No. 1835 131J	
Tubg. Size 2-3/8"	Wt. 4.7#	d	Set At 2163'	Perforations: From To		Unit Sec. Twp. Rge. J 13 18 35	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 2101'		County Union	
Producing Thru Tubing		Reservoir Temp. °F @ 2175'		Mean Annual Temp. °F 50		Baro. Press. - P _a 12.2	
L 2175'		H 2175'		G _g 1.529	% CO ₂ 100	% N ₂ 0	% H ₂ S 0
				Prover	Meter Run 4.0	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							280				
1.	4.026 x 1.5			202	16	59	214.2	50			24 hrs
2.	4.026 x 1.5			219	15	60	231.2	"			24 hrs
3.	4.026 x 1.5			242	6	59	254.2	"			24 hrs
4.	4.026 x 1.5			269	1	50	281.2	"			24 hrs
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							529
2							528
3							340
4							103
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	0 Mcf/bbl.
1					A.P.I. Gravity of Liquid Hydrocarbons	0 Deg.
2					Specific Gravity Separator Gas	1.529
3					Specific Gravity Flowing Fluid	X X X X X
4					Critical Pressure	1072 P.S.I.A.
5					Critical Temperature	547 R

P _c	292.2	P _c ²	85,38
NO.	P _w	P _w ²	P _c ² - P _w ²
1	214.2		39,499
2	231.2		31,927
3	254.2		20,763
4	281.2		6,307
5			

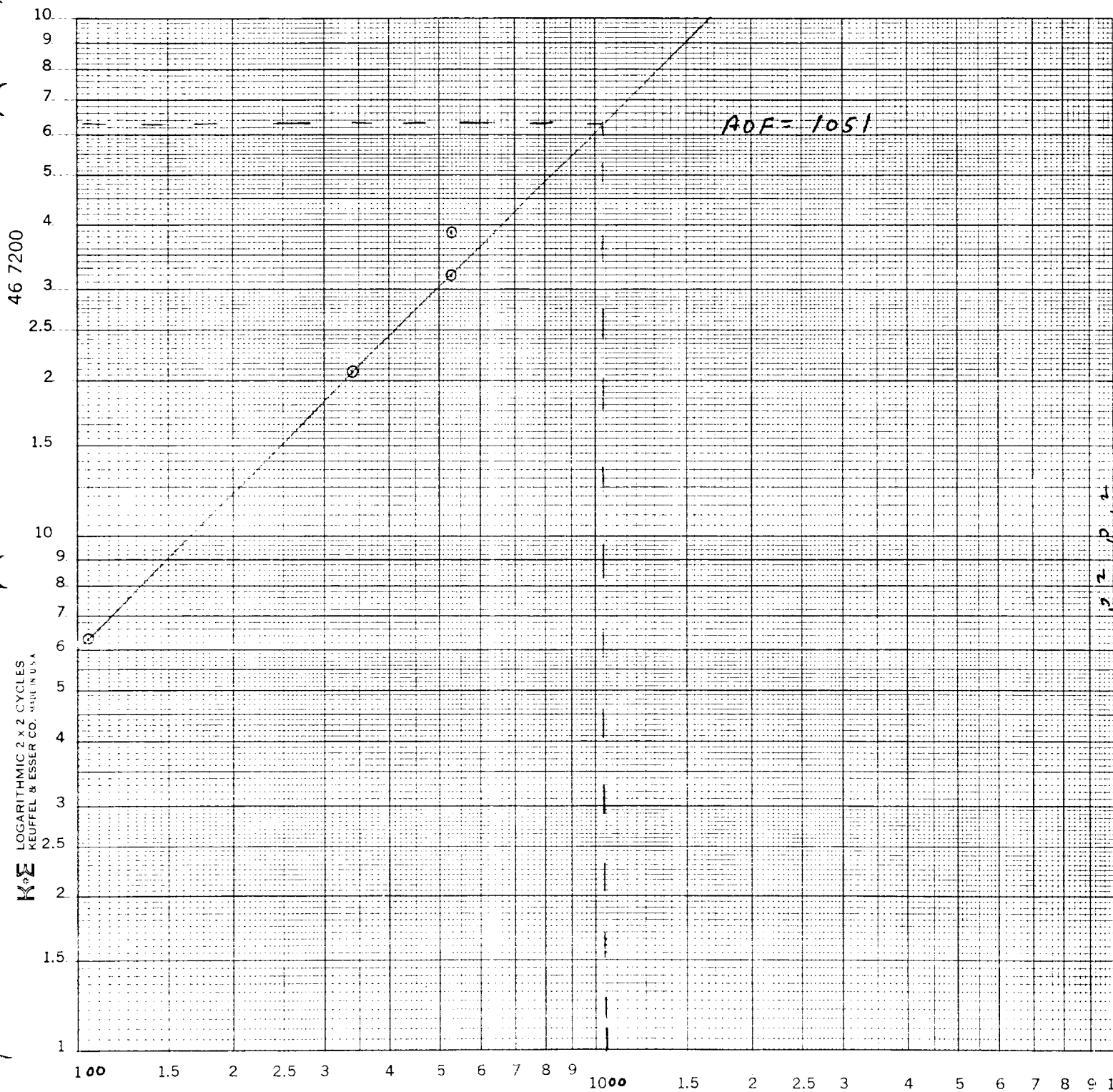
$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 2.162$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.98$$

$$ACF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1051$$

Absolute Open Flow	1051	Mcf/d @ 15.025	Angle of Slope θ	Slope, n	.89
Remarks:					
Approved by Commission:		Conducted By:		Calculated By: D. D. Kimble	
				Checked By:	

1835 1315



$$Q = MCF$$