

OIL CONSERVATION DIVISION

P. O. BOX 2088

Form C-122
Revised 10-1-78STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

SANTA FE, NEW MEXICO 87501

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 1-15-86			
Company Ross Carbonics Inc.				Connection			
Pool Bravo Dome				Formation Tubb		Unit	
Completion Date 1-24-84		Total Depth 2273		Plug Back TD 2077		Elevation 4540	
Farm or Lease Name Hayoz				Well No. 2			
Csg. Size 5 1/2		Wt. 20		Set At 2136		Perforations: From 2028 To 2071	
Tub. Size 2 7/8		Wt. 6.5		Set At 2010		Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 2010 to 2018		County Harding	
Producing thru Tubing		Reservoir Temp. °F 90 @ 2049		Mean Annual Temp. °F 50		Baro. Press. - P _a 12.2	
2049		2049		C _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	4.026	X	1.750	448							
1.	"	"	"	180	34	49	192.2	50			1 hr
2.	"	"	"	150	34	50	162.2	50			1 hr
3.	"	"	"	121	39	51	133.2	50			1 hr
4.	"	"	"	91	48	52	103.2	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 _{pv}	Rate of Flow O, Mcfd
							1012
1							931
2							901
3							877
4							
5							

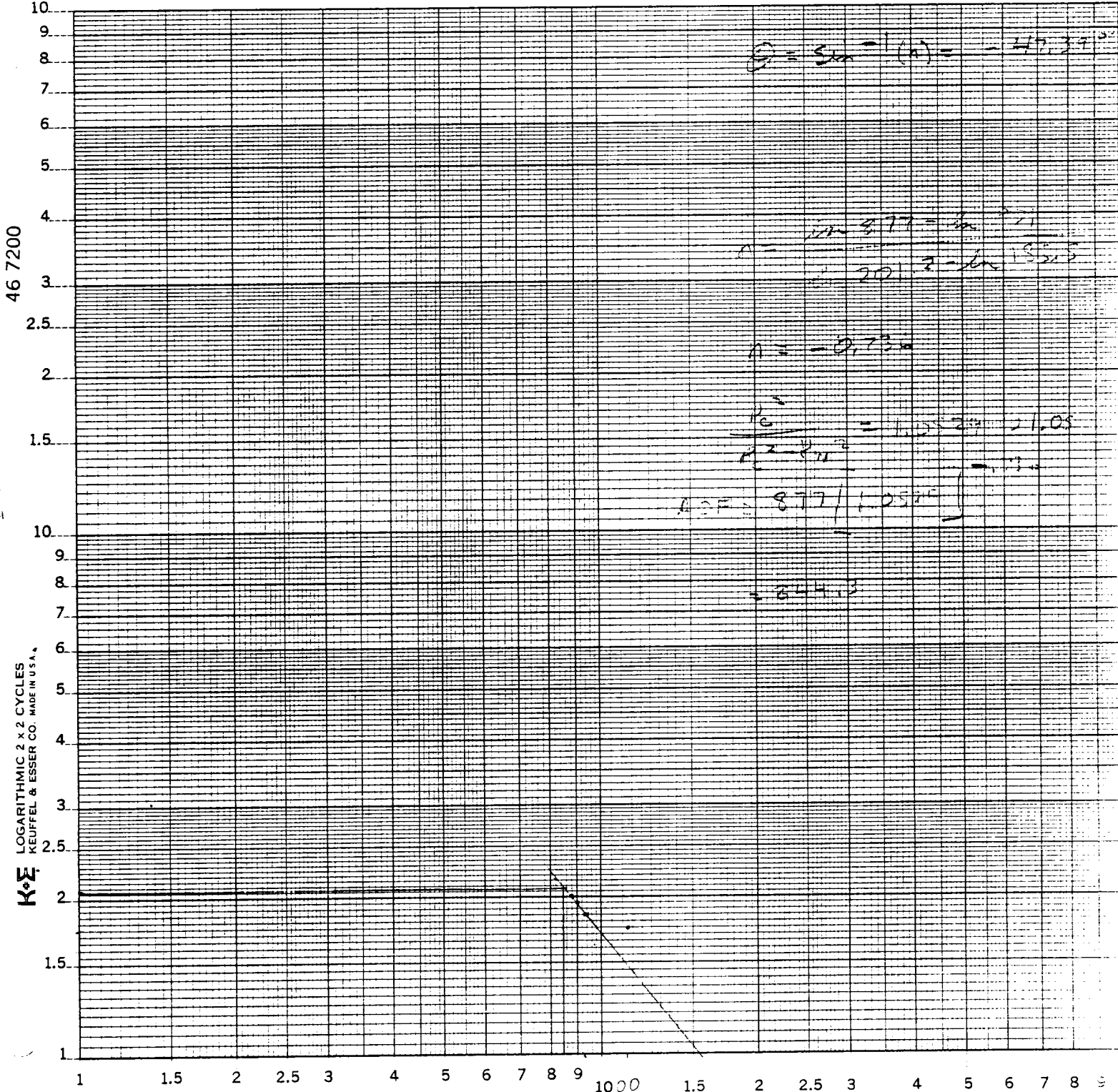
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons	0
2.					Specific Gravity Separator Gas	1.529
3.					Specific Gravity Flowing Fluid	X X X X X
4.					Critical Pressure	1072 P.S.I.A.
5.					Critical Temperature	547 °R

NO.	P _r ²	P _w	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 1.0529$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = .9627$
1	192.2	36.94	174.86			
2	162.2	26.30	185.50			
3	133.2	17.74	194.06			
4	103.2	10.65	201.15			
5						

Absolute Open Flow		844 Mcfd @ 15.025		Angle of Slope		Slope, n = 736	
Remarks:							
Approved by Division		Inspected By: Mock Well Testing		Calculated By:		Checked By:	

U.S. #2

ILLEGIBLE



AOF = 844.3