OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 1-16-86	
Company: Ross Carbonics Inc.		Connection:			
Pool: Bravo Dome		Formation: Tubb		Unit:	
Completion Date: 2-4-84	Total Depth: 2110	Plug Back TD:	Elevation: 4490	Farm or Lease Name: Hayoz	
Csg. Size: 7 / Wt.: 26 / d: / Set At: 2165		Perforations: From 1992 To 2082		Well No.: 4	
Tbg. Size: 2 7/8 / Wt.: 6.5 / d: / Set At: 1962		Perforations: From To		Unit: D / Sec.: 14 / Twp.: 19N. / Rge.: 30E	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: 1962		County: Harding	
Producing Thru: Tubing	Reservoir Temp. °F: 90 • 2037	Mean Annual Temp. °F: 50	Baro. Press. – P_a: 12.2	State: New Mexico	

L	H	Gg.	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
2037	2037	1.529	100	0	0		4.0	Flanged

NO.	FLOW DATA: Prover Line Size X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA: Press. p.s.i.g.	Temp. °F	CASING DATA: Press. p.s.i.g.	Temp. °F	Duration of Flow
SI	4.026 X 1.000	540							
1.	" "	180	34	47	192.2	50			1 hr
2.	" "	151	85	49	163.2	50			1 hr
3.	4.026 X 1.500	121	34	50	133.2	50			1 hr
4.	" "	90	50	51	102.2	50			1 hr
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							323
2.							469
3.							611
4.							651
5.							

NO.	P_r	Temp. °R	T_r	Z
1.				
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio 0 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 0 Deg.
Specific Gravity Separator Gas 1.529 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 1072 P.S.I.A. P.S.I.A.
Critical Temperature 547 R R

P_c 552.2 P_c^2 304.9

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		192.2	36.94	267.96
2		163.2	26.63	278.27
3		133.2	17.74	287.16
4		102.2	10.44	294.46
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.035$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0053$

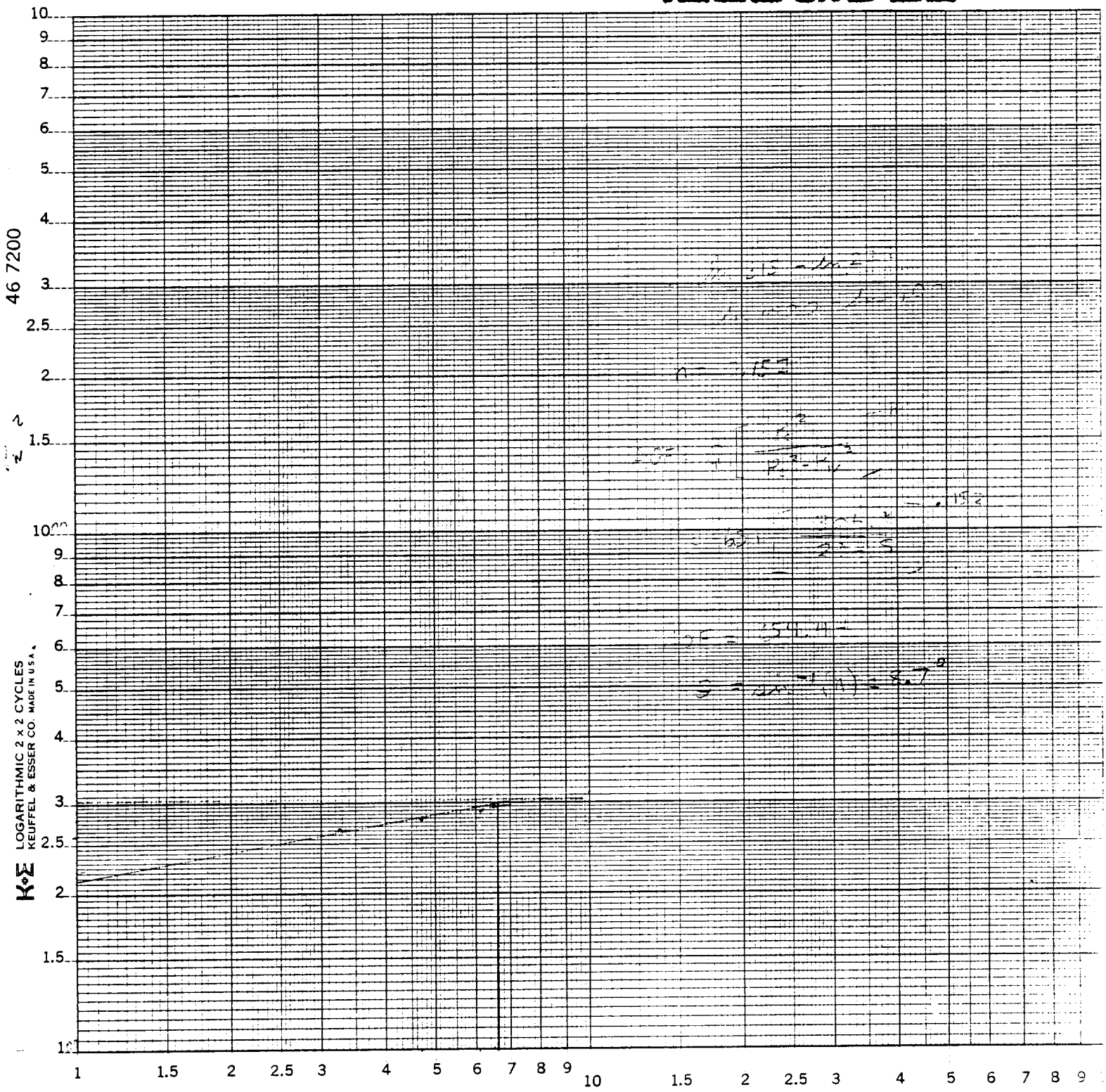
$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 654.$ (Q = 651)

Absolute Open Flow 654 Mcfd @ 15.025 Angle of Slope θ Slope, n 0.152

Remarks:

Approved By Division | Conducted By: Mock Well Testing | Calculated By: | Checked By:

ILLEGIBLE



Q = 654 MCFD