

STATE OF ALASKA
ALASKA OIL AND GAS CONSERVATION COMMISSION
GAS WELL OPEN FLOW POTENTIAL TEST REPORT

1a. Test: <input type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special				1b. Type Test: <input type="checkbox"/> Stabilized <input type="checkbox"/> Non Stabilized <input type="checkbox"/> Multipoint <input type="checkbox"/> Constant Time <input type="checkbox"/> Isochronal <input type="checkbox"/> Other: _____							
2. Operator Name:				5. Date Completed:		11. Permit to Drill Number:					
3. Address:				6. Date TD Reached:		12. API Number: 50-					
4a. Location of Well (Governmental Section): Surface: Top of Productive Horizon: Total Depth:				7. KB Elevation above MSL (feet):		13. Well Name and Number:					
				8. Plug Back Depth(MD+TVD):		14. Field/Pool(s):					
				9. Total Depth (MD + TVD):							
4b. Location of Well (State Base Plane Coordinates NAD 27): Surface: x- y- Zone- TPI: x- y- Zone- Total Depth: x- y- Zone-				10. Land Use Permit:		15. Property Designation:					
17. Casing Size Weight per foot, lb. I.D. in inches Set at ft.				19. Perforations: From To							
18. Tubing Size Weight per foot, lb. I.D. in inches Set at ft.											
20. Packer set at ft:		21. GOR cf/bbl:		22. API Liquid Hydrocarbons:		23. Specific Gravity Flowing Fluid (G):					
24a. Producing through: <input type="checkbox"/> Tubing <input type="checkbox"/> Casing		24b. Reservoir Temp: F°		24c. Reservoir Pressure: psia @ Datum TVDS		24d. Barometric Pressure (Pa): psia					
25. Length of Flow Channel (L):		Vertical Depth (H):		Gg:	% CO ₂ :	% N ₂ :	% H ₂ S:				
Prover:		Meter Run:		Taps:							
26. FLOW DATA				TUBING DATA		CASING DATA					
No.	Prover Line Size (in.)	X	Choke Orifice Size (in.)	Pressure psig	Diff. Hw	Temp. F°	Pressure psig	Temp. F°	Pressure psig	Temp. F°	Duration of Flow Hr.
1.		X									
2.		X									
3.		X									
4.		X									
5.		X									
No.	Basic Coefficient (24-Hour) Fb or Fp	\sqrt{hwPm}	Pressure Pm	Flow Temp. Factor Ft	Gravity Factor Fg	Super Comp. Factor Fpv	Rate of Flow Q ₁ Mcfd				
1.											
2.											
3.											
4.											
5.											
No.	Pr	Temperature T	Tr	z			for Separator Gas Gg		for Flowing Fluid G		
1.											
2.											
3.							Critical Pressure				
4.							Critical Temperature				
5.											

Pc _____ Pc² _____

Pf _____ Pf² _____

No.	Pt	Pt ²	Pc ² -Pt ²	Pw	Pw ²	Pc ² -Pw ²	Ps	Ps ²	Pf ² -Ps ²
1.									
2.									
3.									
4.									
5.									

25.

AOF (Mcf) _____

n _____

Remarks:

I hereby certify that the foregoing is true and correct to the best of my knowledge.

Signed _____

Title _____

Date _____

DEFINITIONS OF SYMBOLS

- AOF Absolute Open Flow Potential. Rate of Flow that would be obtained if the bottom hole pressure opposite the producing face were reduced to zero psia
- Fb Basic orifice factor Mcfd/ \sqrt{hwPm}
- Fp Basic critical flow prover or positive choke factor Mcfd/psia
- Fg Specific gravity factor, dimensionless
- Fpv Super compressibility factor= $\sqrt{1/Z}$ dimensionless
- Ft Flowing temperature factor, dimensionless
- G Specific gravity of flowing fluid (air=1.000), dimensionless
- Gg Specific gravity of separator gas (air=1.00), dimensionless
- GOR Gas-oil ratio, cu. ft. of gas (14.65 psia and 60 degrees F) per barrel oil (60 degrees F)
- hw Meter differential pressure, inches of water
- H Vertical depth corresponding to L, feet (TVD)
- L Length of flow channel, feet (MD)
- n Exponent (slope) of back-pressure equation, dimensionless
- Pa Field barometric pressure, psia
- Pc Shut-in wellhead pressure, psia
- Pf Shut-in pressure at vertical depth H, psia
- Pm Static pressure at point of gas measurement, psia
- Pr Reduced pressure, dimensionless
- Ps Flowing pressure at vertical depth H, psia
- Pt Flowing wellhead pressure, psia
- Pw Static column wellhead pressure corresponding to Pt, psia
- Q Rate of flow, Mcfd (14.65 psia and 60 degrees F)
- Tr Reduced temperature, dimensionless
- T Absolute temperature, degrees Rankin
- Z Compressibility factor, dimensionless

Recommended procedures for tests and calculations may be found in the *Manual of Back- Pressure Testing of Gas Wells*, Interstate Oil Compact Commission, Oklahoma City, Oklahoma.