## STATE OF ALASKA ALASKA OIL AND GAS CONSERVATION COMMISSION

## GAS WELL OPEN FLOW POTENTIAL TEST REPORT

1a. T	Test:	lı	nitial	Annual		Special		1b. Typ	e Test:			Stabilized			Non Stabili	zed	Multipoint
									Consta	nt Time		Isochrona	I		Other:		
2. Operator Name:								5.	5. Date Completed:					11. Permit to Drill Number:			
3. Address: 6. I								6. Date TD Reached:				12. API Number:					
10 I	ocation of	Wall (C	Covernmen	tal Section):					7	7 KD Flourities above MCL (footh)				50-	Vell Name a	nd Nur	mhor:
4a. Location of Well (Governmental Section): 7. Surface:								7. KB Elevation above MSL (feet): 13.					veli ivallie a	iliu ivui	nber.		
		vo Llori	700.						0	Dlug Do	ak Danth/	MD LTVD).		11 [	iold/Dool(o)		
Top of Productive Horizon:									8.	8. Plug Back Depth(MD+TVD):				14. Field/Pool(s):			
Tota	Total Depth: 9.									9. Total Depth (MD + TVD):							
4b. l	_ocation of	Well (S	State Base	Plane Coord	dinate	es NAD	27):		10	). Land l	Jse Permi	t:		15. F	Property Des	ignatio	on:
Surf	ace:	X-		у-				Zone-									
TPI:		X-		y-				Zone-	16	6. Type c	of Complet	tion (Descri	be):				
	l Depth:	X-		y-				Zone-		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		(=	/-				
	Casing Size		Weight n	er foot, lb.		I.D. in ir	nches		Se	et at ft.		19. Perfor	ations:		From		То
17.	Dasing Oize	•	weight p	Ci 100t, ib.		1.0. 11111	101103	•	00	ot at it.		15.1 01101	auoris.		110111		10
40.	Turkinan Ciar		\\/ = : =  = 4 ==	<b>f 4</b>      -		ID ::: ::			0.	- 4 - 4 64							
18.	Tubing Size	,	weight p	er foot, lb.		I.D. in ir	ncnes	•	56	et at ft.							
													T				
20. Packer set at ft: 21. GOR cf/bbl:				: 22. API Liquid Hydr			d Hydro	ocardbons:			23. Specific Gravity Flowing Fluid (G):						
24a. Producing through: 24b. Reservoir Temp: 24c. Reservoir P							ir Press	ure:		24d. Barometric Pressure (Pa):							
☐ Tubing ☐ Casing F° ps							psia @	a @ Datum TVDSS			psia						
25. l	Length of F	low Cha	annel (L):	Vertical De	epth (	(H):		Gg:	% (	CO <sub>2</sub> :	% N <sub>2</sub> :	% H <sub>2</sub> S:	Prove	er:	Meter R	un:	Taps:
26. FLOW DATA					TA				TUBING DATA CA		CASING	NG DATA		1	<u>l</u>		
No.	Prover Choke Line X Orifice Size (in.) Size (in.)		Pressur psig	e	Diff. Hw		Temp. F		Pressure Temp. psig F°		Pressure psig	Temp.			Flow		
1.	` '	Х	. ,														
2.		X															
3.		X															
4.		Χ															
5.		Χ															
No.	Basic Coefficient		√ hwPm	Pressure Pm		Flow Temp. Factor Ft		Gravity Factor Fg		Super Comp. Factor Fpv		Rate of Flow Q <sub>1</sub> Mcfd					
1	<u>'</u>	2 31 1	<u> </u>					<u> </u>	•			' '		-			
1. 2.								-		+		1		1			
3.																	
4.										+							
5.																	
<u> </u>												I					
No.	o. Pr		Temperat T	ure	Tr		z					for		Separator Gas Gg		for Flowing Fluid G	
1.																	
2.																	
3.											Critical Pressure						
	4.										Critical Temperature						
5.																	

Pc	Pc <sup>2</sup>		-			Pf		. Pf <sup>2</sup>		
No.	Pt	Pt <sup>2</sup>	Pc <sup>2</sup> -Pt <sup>2</sup>	Pw	Pw <sup>2</sup>	Pc <sup>2</sup> -Pw <sup>2</sup>	Ps	Ps <sup>2</sup>	Pf <sup>2</sup> -Ps <sup>2</sup>	
1.										
2.										
3.										
4.										
5.										
25.  I hereby certi	AOF (Mcfd) Remarks:		e and correc	ot to the bes	t of my know	vledge.		n		
Digital Signature		Title		Date						

## **DEFINITIONS OF SYMBOLS**

AOF	Absolute Open Flow Potential. Rate of Flow that would be obtained if the bottom hole
AUF	pressure opposite the producing face were reduced to zero psia
Fb	Basic orifice factor Mcfd/ √ hwPm
	Basic critical flow prover or positive choke factor Mcfd/psia
Fp Fa	· · · · · · · · · · · · · · · · · · ·
Fg	Specific gravity factor, dimensionless
Fpv	Super compressibility factor= √ 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
Н	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
Т	Absolute temperature, degrees Rankin

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.

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