

PARAMETER	SYMBOL/EQUATION	UNITS	TRIAL 1	TRIAL 2	TRIAL 3	TRIAL 4	TRIAL 5	TRIAL 6	TRIAL 7
1 Specific Gravity of Well Fluid	G	Air=1.000	0.621	0.621	0.621				
2 Percent Carbon Dioxide	%CO2	Decimal	0.66	0.66	0.66				
3 Percent Nitrogen	%N2	Decimal	0.20	0.20	0.20				
4 Percent Hydrogen Sulfide	%H2S	Decimal	0.00	0.00	0.00				
5 Critical Pressure	Pcr	PSIA	674	674	674				
6 Critical Temperature	Tcr	Degrees R	363	363	363				
7 Length of Flow Channel	L	Feet	8,844	8,844	8,844				
8 Vertical Depth Corresponding to L	H	Feet	8,844	8,844	8,844				
9 Inside Diameter	d	Inches	1.995	1.995	1.995				
10 Outside Diameter	do	Inches	N/A	N/A	N/A				
11 Flow Rate	Qm	MMCFD	1.013	1.013	1.013				
12 Wellhead Temperature	TW	Degrees R	520	520	520				
13 Temperature at Vertical Depth H	Ts	Degrees R	626	626	626				
14 Average Temperature	T	Degrees R	573	573	573				
15 Compressibility Factor	Z est	Dimensionless	0.918	0.894	0.889				
16	T * Z		526	512	509				
17	(G * H) / (T * Z)		10.441	10.721	10.782				
18	s		0.392	0.402	0.404				
19 Weight of Column Factor	e^s	Dimensionless	1.479	1.495	1.498				
20 Shut-in or Flowing Wellhead Pressure	Pc or Pt	PSIA	846	846	846				
21	Pc^2 or Pt^2		715.7	715.7	715.7				
22	e^s * (Pc^2 or Pt^2)		1,058.7	1,069.9	1,072.3				
23 Friction Factor	Fr		0.017777	0.017777	0.017777				
24 Combined Compressibility Factor	Fc = Fr * T * Z		9.351	9.106	9.055				
25	Fc * Qm		9.47	9.22	9.17				
26	(L / H) * (Fc * Qm)^2		89.7	85.1	84.1				
27 Pressure Loss Factor	Fs = (L / H) * (Fc * Qm)^2 * (e^s - 1)		43.0	42.1	41.9				
28	Ps^2 = (e^s * Pt^2) + Fs		1,102	1,112	1,114				
29 Shut-in or Flowing Reservoir Pressure	Pf or Ps	PSIA	1,050	1,055	1,056				
30 Average Pressure	P	PSIA	948	950	951				
31 Reduced Pressure	Pr	Dimensionless	1.41	1.41	1.41				
32 Reduced Temperature	Tr		1.58	1.58	1.58				
33 Compressibility Factor	Z calc	Dimensionless	0.894	0.889	0.889				