
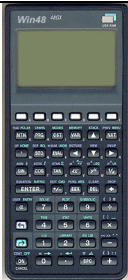


Program Version	Creation Date	Program Author	State/Country	Calculator	ROM Version
1.02	12/12/2001	Miguel Angel CAPORALINI HERK	 NEUQUEN ARGENTINA		HPHP48-R (HP48G+)
Program Title					
Density Gas-Liquid Mixture, Erosional Velocity, Ascensional Velocity, Hidrostatic Column Pressure, Pressure Drop & Flow Reservoir Pressure of Gas inside the Well					
Library Number			Checksum (CRC)	Bytes	
L908 – GasWellProd			# E2CBh	8,984.5	

I'm writing this program in UsrRPL Language and after create a Library (L908 - GasWellPro), wich allow calculate as follow :

Very Important :

- a) If no exist Data, you must input first it, with [0] Option.
- b) Else, you can use [1], [2] or [3] Options.

Step by Step :

For: NEW, MODIFY, PURGE, GO

- 0. New Known Data
- 1. Modify Known Data
- 2. Purge Known Data
- 3. To Program

- ☐ 0. English System (Units)
 - ☐ 0. Density G/L Mixture
 - ☐ 1. Erosional Gas Velocity
 - ☐ 2. Ascensional Gas Velocity
 - ☐ 3. Hidrostatic Column Pressure
 - ☐ 4. Pressure Drop
 - ☐ 5. Flow Reservoir Pressure
- ☐ 1. Metric System (Units)
 - ☐ 0. Density G/L Mixture
 - ☐ 1. Erosional Gas Velocity
 - ☐ 2. Ascensional Gas Velocity
 - ☐ 3. Hidrostatic Column Pressure
 - ☐ 4. Pressure Drop
 - ☐ 5. Flow Reservoir Pressure

Program Title		
Density Gas-Liquid Mixture, Erosional Velocity, Ascensional Velocity, Hydrostatic Column Pressure, Pressure Drop & Flow Reservoir Pressure of Gas inside the Well		
Library Number	Checksum (CRC)	Bytes
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Description of Known Data:

Sg = Liquid Specific Gravity (H₂O=1)
 Gr = Gas-Liquid Relation (cf/bbl)
 Id = Internal Pipe Diameter (inches)
 T = Absolute Gas Flowing Temperature (°R= °F+460)
 S = Gas Specific Gravity (air=1.0)
 Z = Gas Compressibility Factor
 C = Empiric Constant for Pipe (L80-Cr13 = 250; N-80 = 160; Steel Reinforced or Reinforced Plastic C=140;
Note : For convention, you can use C=100.
 L = Column [Pipe] Height (feet)
 Op = Operating Pressure (psi)
 Ap = Atmospheric Pressure (psi)
 Tp = Well Head Pressure (psi)
 Gf = Gas Flow Rate (cf/day)

Special Mention : Thanks to ... Engineer Omar BARRERAS for you great contribution.

For any questions, please contact me :

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