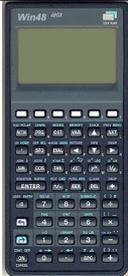


Program Version	Creation Date	Program Author	State/Country	Calculator	ROM Version
1.02	12/12/2001	Miguel Angel CAPORALINI HERK	 NEUQUEN ARGENTINA		HPHP48-R (HP48G+)
Program Title					
Density Gas-Liquid Mixture, Erosional Velocity, Ascensional Velocity, Hidrostatic Column Pressure, Pressure Drop & Flow 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. Density G/L Mixture
 - 1. Erosional Gas Velocity
 - 2. Ascensional Gas Velocity
 - 3. Hidrostatic Column Pressure
 - 4. Pressure Drop
 - 5. Flow Reservoir Pressure
 - 0. English System (Units)
 - 1. Metric System (Units)

Program Title		
Density Gas-Liquid Mixture, Erosional Velocity, Ascencional 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

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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