

Zone Rates

Init

Rate Calculation

Parameters

Surface Match

Contributions

Gradio

Flow map

Zone: 1

Model: Liquid-Gas

Correlation: Dukler

☐ ADF
 ☐ m-weighted spinner response

Qw: 0 B/D

Qo: 5058.49 B/D

Qg: 3673.53 B/D

Qw s.c.: 0 STB/D

Qo s.c.: 3609.38 STB/D

Qg s.c.: 5491.34 Mscf/D

Yw: 0

Yo: 0.6221

Yg: 0.378

Regime: Slug liquid-gas

Slip l-g: 29.5294 ft/min

Matched	Measured	Shift	Calculated	Error %	Fit	Weight	Vpcf
VASPIN , ft/min	185.043	>	185.043	0	<input checked="" type="checkbox"/> All	1	0.8776
GRAD , g/cc	0.4669	>	0.4669	0	<input checked="" type="checkbox"/> All	1	N/A

☒ Table
 ☐ Plot

Improve All

No flow

Edit

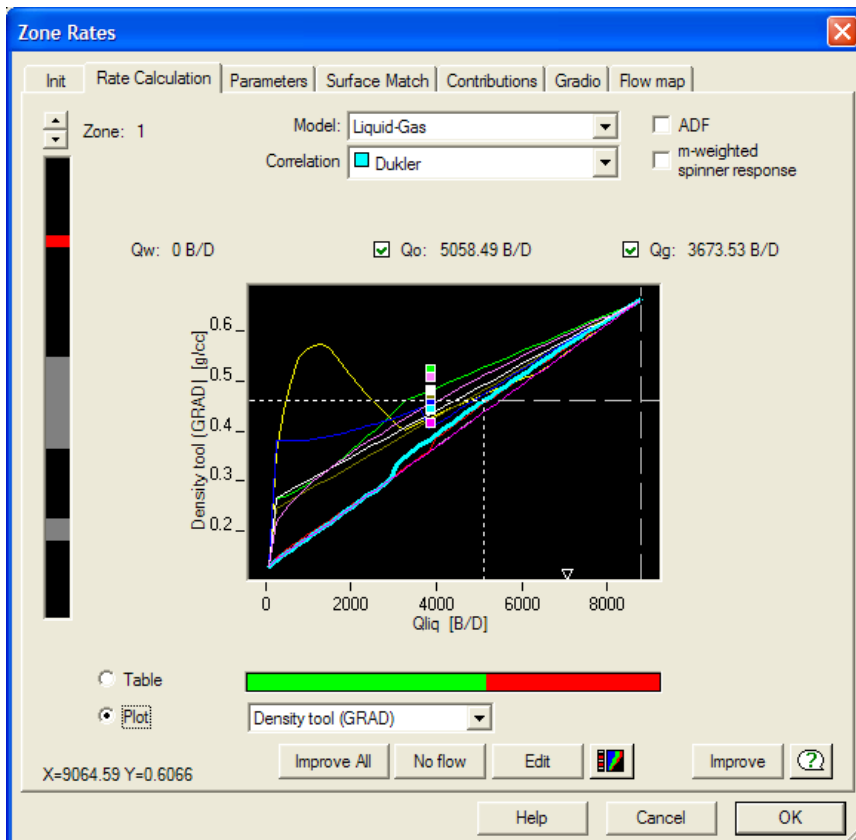
Improve

?

Help

Cancel

OK



X=9064.59 Y=0.6066

Edit zone

Q, downhole

Qw: 0 B/D

Qo: 5058.49

Qg: 3673.53

Qt: 8732.02 ☐ Keep Qt Constant

Slip, Vpcf

C_ADF: 1 V_ADF: 0

Vslip/Vm: N/A

Slip I-g: 29.5294 ft/min

Help Cancel OK

Zone Rates

Init Rate Calculation **Parameters** Surface Match Contributions Gradio Flow map

Zone: 1 From: 8163.8 ft To: 8174.4 ft

Temperature: 249.149 °F Deviation: 0 °

Pressure: 2892.74 psia Roughness: 2.903E-4

Bubble Point Pressure: 4597.3 psia I.D.: 6.2 in

Solution GOR: 1100 cf/bbl Rs: 631.959 cf/bbl

Total GOR: 1521.41 cf/bbl Rsw: N/A

Vm: 162.39 ft/min

	Oil	Gas
Volume factor	1.4015	0.0064
Viscosity, cp :	0.3573	0.0195
Density, g/cc :	0.6645	0.1335

Help Cancel OK

Zone Rates

Init | Rate Calculation | Parameters | **Surface Match** | Contributions | Gradio | Flow map

Surface conditions and rates

Apply Temperature: 60 °F Pressure: 14.7 psia

Qw Qo Qg
STB/D STB/D Mscf/D
0 2700 4500

Simulated rates

Surface: 0 3609.38 5491.34

1 Vpcf x by: 1
1 Slip l-g x by: 1

Match Surface

Help Cancel OK

Zone Rates



Init | Rate Calculation | Parameters | Surface Match | **Contributions** | Gradio | Flow map

"Lock" flags only apply for Global Improve Show s.c. values (read only mode) ☐

	dQw,B/D	Lock	dQo,B/D	Lock	dQg,B/D	Lock	dQ's Signs
Inflow 1	0	<input checked="" type="checkbox"/>	3623.88	<input type="checkbox"/>	3528.48	<input type="checkbox"/>	All positive
Inflow 2	0	<input checked="" type="checkbox"/>	1438.07	<input type="checkbox"/>	144.985	<input type="checkbox"/>	All positive
Bottom	0	<input checked="" type="checkbox"/>	0	<input type="checkbox"/>	0	<input type="checkbox"/>	All positive

Set All sign constraints : Default Positive Negative

☐ Match S.C with weight 1

☐ Use HGA   Global Improve

☒ Material balance correction

Help Cancel OK

Zone Rates

Init | Rate Calculation | Parameters | Surface Match | Contributions | **Gradio** | Flow map

Zone: 1

Density tool: GRAD | 1 | Friction multiplier: 1

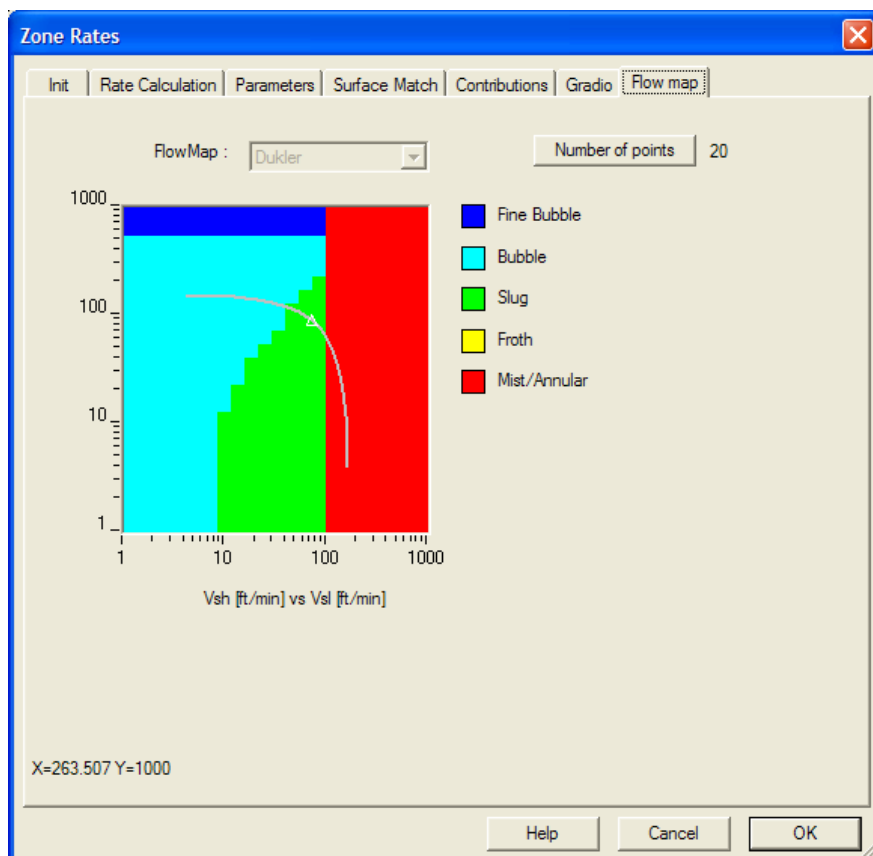
Gradients g/cc

Hydrostatic:	0.4638
Pipe friction:	0.0018
Tool friction:	0.0014
Acceleration:	0
Total:	0.4669

Density ?

Mixture:	0.4638	g/cc
Tool response:	0.4669	

Help | Cancel | OK



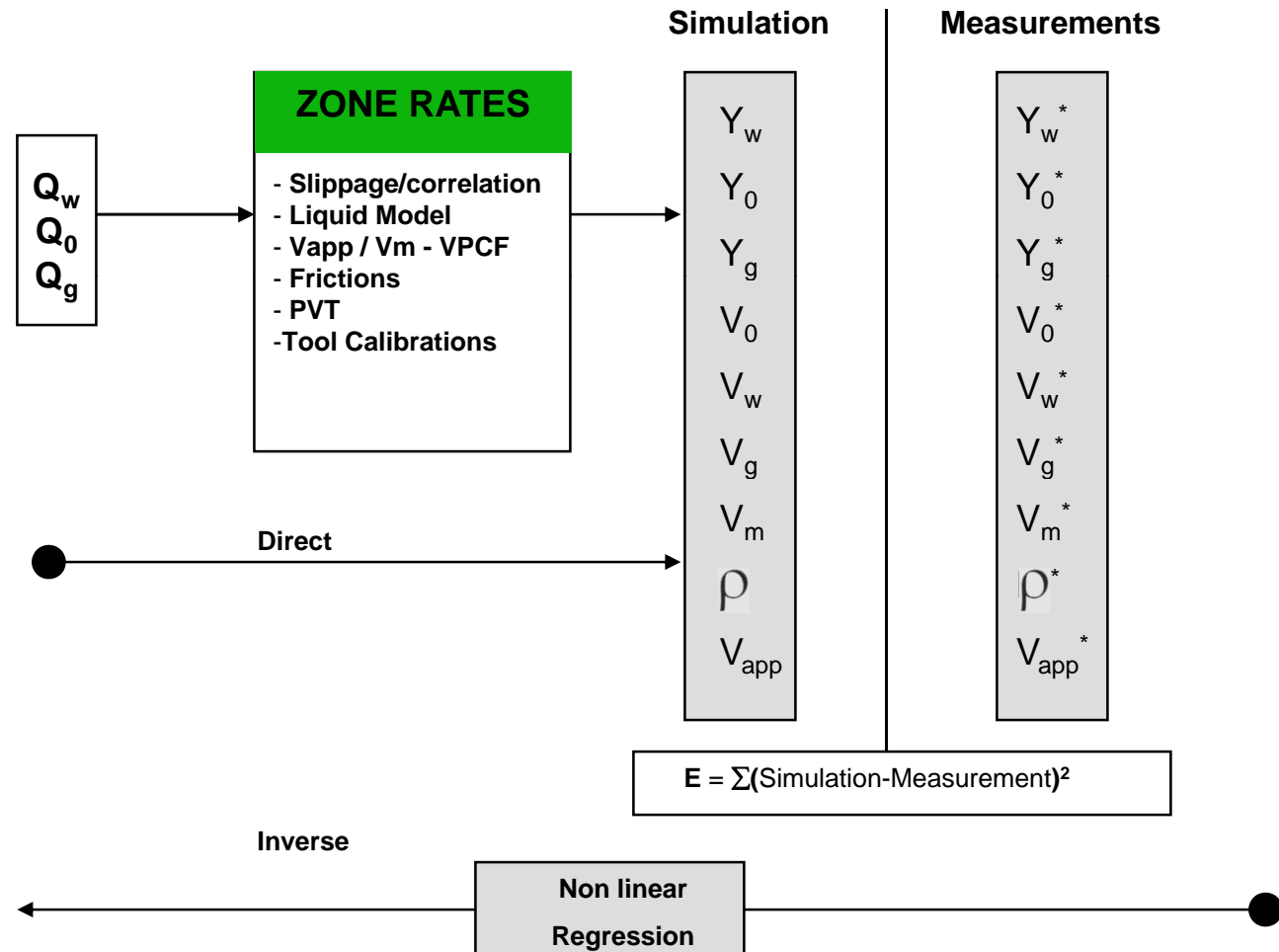


Emeraude Process

SURFACE RATES

- e.g. Test separator

Simulated
Matched
Computed
Derived
Synthetic
Calculated
Predicted





Emeraude Data Structure

