



Saturation Index Calculations

Champion Technologies, Inc
(Based on the Tomison-Codde Model)

Site Information

Company	Sonat Raton LLC
Field	VPR A
Point	18
Date	9/24/1999

Water Analysis (mg/L)

Calcium	92
Magnesium	44
Barium	0
Strontium	0
Sodium*	991
Bicarbonate Alkalinity	751
Sulfate	67
Chloride	1,333

* - Calculated Value

Appended Data

CO ₂	2 mg/L
H ₂ S	0 mg/L
Iron	21 mg/L

TDS - 3,299

Physical Properties

Ionic Strength*	0.06
pH†	7.10
Temperature	90°F
Pressure	50 psia

* - Calculated Value † - Known/Specified Value

Calcite Calculation Information

Calculation Method	Value
pH	7.10
Bicarbonate Alkalinity Correction(s)	Value
None Used	---

SI & PTB Results

Scale Type	SI	PTB
Calcite (Calcium Carbonate)	0.15	18.9
Gypsum (Calcium Sulfate)	-2.53	N/A
Hemihydrate (Calcium Sulfate)	-2.31	N/A
Anhydrite (Calcium Sulfate)	-2.79	N/A
Barite (Barium Sulfate)	N/A	N/A
Celestite (Strontium Sulfate)	N/A	N/A