



Saturation Index Calculations

Champion Technologies, Inc.
(Based on the Tomson-Oddo Model)

Site Information

Company	Sonot Raton LLC
Field	VPR A
Point	21
Date	9/24/1999

Water Analysis (mg/L)

Calcium	188
Magnesium	46
Barium	0
Strontium	0
Sodium*	271
Bicarbonate Alkalinity	1,222
Sulfate	72
Chloride	121

* - Calculated Value

Appended Data

CO2	2 mg/L
H2S	0 mg/L
Iron	25 mg/L

TDS - 1,945

Physical Properties

Ionic Strength*	0.03
pH†	7.70
Temperature	90°F
Pressure	50 psia

* - Calculated Value † - Known/Specified Value

Calcite Calculation Information

Calculation Method	Value
pH	7.70
Bicarbonate Alkalinity Correction(s)	Value
None Used	---

SI & PTB Results

Scale Type	SI	PTB
Calcite (Calcium Carbonate)	1.42	154.1
Gypsum (Calcium Sulfate)	-2.20	N/A
Hemihydrate (Calcium Sulfate)	-1.95	N/A
Anhydrite (Calcium Sulfate)	-2.45	N/A
Barite (Barium Sulfate)	N/A	N/A
Celestite (Strontium Sulfate)	N/A	N/A