



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

Site Information

Company	Soniat Raton LLC
Field	VPR A
Point	17
Date	9/24/1999

Water Analysis (mg/L)

Calcium	48
Magnesium	36
Barium	0
Strontium	0
Sodium*	773
Bicarbonate Alkalinity	1,512
Sulfate	25
Chloride	485

* - Calculated Value

Appended Data

CO ₂	3 mg/L
H ₂ S	0 mg/L
Iron	4 mg/L

TDS - 2,883

Physical Properties

Ionic Strength*	0.04
pH†	7.80
Temperature	90°F
Pressure	50 psia

* - Calculated Value † - Known/Specified Value

Calcite Calculation Information

Calculation Method	Value
pH	7.80
Bicarbonate Alkalinity Correction(s)	Value
None Used	---

SI & PTB Results

Scale Type	SI	PTB
Calcite (Calcium Carbonate)	0.97	37.1
Gypsum (Calcium Sulfate)	-3.17	N/A
Hemihydrate (Calcium Sulfate)	-2.94	N/A
Anhydrite (Calcium Sulfate)	-3.43	N/A
Barite (Barium Sulfate)	N/A	N/A
Celestite (Strontium Sulfate)	N/A	N/A