



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

Site Information

Company	Sonat Ration LLC
Field	VPR A
Point	4X
Date	9/25/1999

Water Analysis (mg/L)

Calcium	180
Magnesium	51
Barium	0
Strontium	0
Sodium*	232
Bicarbonate Alkalinity	1,356
Sulfate	27
Chloride	17

* - Calculated Value

Appended Data

CO2	2 mg/L
Iron	25 mg/L

TDS - 1,888

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)	1.45	148.8
Gypsum (Calcium Sulfate)	-2.63	N/A
Hemihydrate (Calcium Sulfate)	-2.39	N/A
Anhydrite (Calcium Sulfate)	-2.88	N/A
Barite (Barium Sulfate)	N/A	N/A
Celestite (Strontium Sulfate)	N/A	N/A