



Saturation Index Calculations

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

Site Information

Company	Sonat Raton LLC
Field	VPR A
Point	3
Date	9/25/1999

Water Analysis (mg/L)

Calcium	96
Magnesium	49
Barium	0
Strontium	0
Sodium*	340
Bicarbonate Alkalinity	1,517
Sulfate	31
Chloride	49

* - Calculated Value

Appended Data

CO2	2 mg/L
Iron	12 mg/L

TD5-1894

Physical Properties

Ionic Strength*	0.03
pH†	7.90
Temperature	90°F
Pressure	50 psia

* - Calculated Value † - Known/Specified Value

Calcite Calculation Information

Calculation Method	Value
pH	7.90
Bicarbonate Alkalinity Correction(s)	Value
None Used	---

SI & PTB Results

Scale Type	SI	PTB
Calcite (Calcium Carbonate)	1.36	79.4
Gypsum (Calcium Sulfate)	-2.80	N/A
Hemihydrate (Calcium Sulfate)	-2.56	N/A
Anhydrite (Calcium Sulfate)	-3.05	N/A
Barite (Barium Sulfate)	N/A	N/A
Celestite (Strontium Sulfate)	N/A	N/A