



Saturation Index Calculations

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

Site Information

Company	Sonat Raton LLC
Field	VPR A
Point	2
Date	9/25/1999

Water Analysis (mg/L)

Calcium	60
Magnesium	44
Barium	0
Strontium	0
Sodium*	323
Bicarbonate Alkalinity	1,462
Sulfate	12
Chloride	182

* - Calculated Value

Appended Data

CO2	2 mg/L
Iron	5 mg/L

TD5-2288

Physical Properties

Ionic Strength*	0.03
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)	1.10	47.8
Gypsum (Calcium Sulfate)	-3.39	N/A
Hemihydrate (Calcium Sulfate)	-3.14	N/A
Anhydrite (Calcium Sulfate)	-3.64	N/A
Barite (Barium Sulfate)	N/A	N/A
Celestite (Strontium Sulfate)	N/A	N/A