



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

Site Information

Company	Sonata Raton LLC
Field	VPR A
Point	8
Date	9/25/1999

Water Analysis (mg/L)

Calcium	56
Magnesium	24
Barium	0
Strontium	0
Sodium*	707
Bicarbonate Alkalinity	1,513
Sulfate	21
Chloride	364

* - Calculated Value

Appended Data

CO2	2 mg/L
H2S	0 mg/L
Iron	5 mg/L

TDS - 2,690

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
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Bicarbonate Alkalinity Correction(s)	Value
None Used	---

SI & PTB Results

Scale Type	SI	PTB
Calcite (Calcium Carbonate)	1.03	43.9
Gypsum (Calcium Sulfate)	-3.18	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