

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

Site Information

Company	Maralo
Field	Jal Mat Yates
Point	WSW #1
Date	11/20/96

Water Analysis (mg/L)

Calcium	140
Magnesium	109
Barium	0
Strontium	0
Sodium*	283
Bicarbonate Alkalinity	353
Sulfate	267
Chloride	600

* - Calculated Value

Appended Data

Dissolved CO2	0 mg/L
Dissolved O2	N/A PPE
H2S	2 mg/L
Iron	0 mg/L
TDS	1759 mg/L
Total Hardness	800 mg/L

Physical Properties

Ionic Strength*	0.04
pH†	6.72
Temperature	86°F
Pressure	100 psia

* - Calculated Value † - Known/Specified Value

Calcite Calculation Information

Calculation Method	Value
pH	6.72
Bicarbonate Alkalinity Correction(s)	Value
None Used	---

SI & PTB Results

Scale Type	SI	PTB
Calcite (Calcium Carbonate)	-0.32	N/A
Gypsum (Calcium Sulfate)	-1.82	N/A
Hemihydrate (Calcium Sulfate)	-1.58	N/A
Anhydrite (Calcium Sulfate)	-2.10	N/A
Barite (Barium Sulfate)	N/A	N/A
Celestite (Strontium Sulfate)	N/A	N/A