

Att #1

Saturation Index Calculations

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

Site Information

Company	Conoco
Field	Elliott
Point	B 17
Date	6/12/2000

Water Analysis (mg/L)

Calcium	28,000
Magnesium	5,000
Barium	0
Strontium	0
Sodium*	8205
Bicarbonate Alkalinity	440
Sulfate	695
Chloride	76,000

* - Calculated Value

Physical Properties

Ionic Strength*	3.08
pH*	N/A
Temperature	85°F
Pressure	100 psia

* - Calculated Value

Calcite Calculation Information

Calculation Method	Value
CO2 in Brine	0 mg/L
Bicarbonate Alkalinity Correction(s)	Value
None Used	---

SI & PTB Results

Scale Type	SI	PTB
Calcite (Calcium Carbonate)	N/A	N/A
Gypsum (Calcium Sulfate)	0.05	33.8
Hemihydrate (Calcium Sulfate)	0.01	8.1
Anhydrite (Calcium Sulfate)	0.05	26.7
Barite (Barium Sulfate)	N/A	N/A
Celestine (Strontium Sulfate)	N/A	N/A

Note: TDS = 118,340
pH = 6.5

By Champion Chemical