

Saturation Index Calculations

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

Site Information

Company	Conoco
Field	Barber
Point	Federal 1
Date	2/10/99

Water Analysis (mg/L)

Calcium	1,363
Magnesium	486
Barium	0
Strontium	0
Sodium*	5541
Bicarbonate Alkalinity	1,220
Sulfate	900
Chloride	11,000

* - Calculated Value

Appended Data

CO2	120 mg/L
H2S	821 mg/L
Iron	94 mg/L

Physical Properties

Ionic Strength*	0.41
pH†	6.71
Temperature	85°F
Pressure	100 psia

* - Calculated Value † - Known/Specified Value

Calcite Calculation Information

Calculation Method	Value
pH	6.71
Bicarbonate Alkalinity Correction(s)	Value
None Used	---

SI & PTB Results

Scale Type	SI	PTB
Calcite (Calcium Carbonate)	0.44	229.9
Gypsum (Calcium Sulfate)	-0.71	N/A
Hemihydrate (Calcium Sulfate)	-0.60	N/A
Anhydrite (Calcium Sulfate)	-0.98	N/A
Barite (Barium Sulfate)	N/A	N/A
Celestite (Strontium Sulfate)	N/A	N/A

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