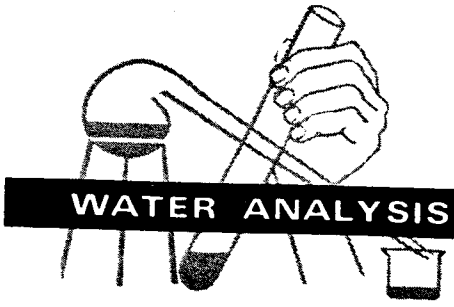

WATER ANALYSIS REPORT

NOV 12 1973

CHAMPION CHEMICALS, INC.

PLANT and LABORATORY: Odessa, Texas EM 2-2353
LABORATORY: Houston, Texas ~~TO 6-0771~~
431-2561

P. O. BOX 45509
HOUSTON, TEXAS 77045
~~P. O. BOX 45509~~
~~HOUSTON, TEXAS 77045~~

Report for _____
cc _____
Company Walters Drilling Co.
Address _____
Service Engineer Lee Dillard

Date Received 10/8/73
Date Reported 10/23/73
Field, Lse or Well Humphery #1
Submitted by _____

CHEMICAL ANALYSIS (AS PARTS PER MILLION)

Field, Lease, or Well

Chemical Component					
Chloride (Cl)	18640				
Iron (Fe)					
Calcium (Ca)	4800				
Magnesium (Mg)	1200				
Hydrogen Sulfide (H_2S)					
Sulfate (SO_4)	6250				
Specific Gravity (gms/cc)	1.030				
pH – ☐ Meter ☐ Strip	7.1				
Bicarbonate (HCO_3)	229				
Carbonate (CO_3)	-0-				

Other Description, Remarks and Recommendations

11-12-73
CC: TW
Clarksville

Reported by B. Harris

WATER ANALYSIS REPORT

Champion Chemicals, Inc.

PLANT P.O. BOX 95101
OKLAHOMA CITY, OKLA. 73109

Laboratory
1708 So. East 22nd

Report for
cc
Company Walters Drilling Company
Address
Service Engineer Elmer Ferguson

Date Sampled 4-12-77
Date Received 4-27-77
Date Reported 4-29-77
Field, Lse or Well Humphrey #1
Submitted by

CHEMICAL ANALYSIS (Milligrams Per Liter)

Field, Lease, or Well

Chemical Component	Humphrey #1				
Chloride (Cl)	19000				
Iron (Fe)					
Hardness as Calcium Carbonate	8200				
Calcium (Ca)	1840				
Magnesium (Mg)	875				
Hydrogen Sulfide (H_2S)					
Sulfate (SO_4)	1660				
Specific Gravity	1.015				
pH — ☒ Meter ☐ Strip	7.6				
Bicarbonate (HCO_3)	420				
Carbonate (CO_3)	0				

Other Description, Remarks and Recommendations

Reported by Bob Galloway

PHONE 316-792-2549

GORDON LAB, INC.

925 PATTON ROAD • P. O. BOX 605 • GREAT BEND, KANSAS 67530

WATER ANALYSIS

DATE May 5, 1978

TO Walters Drilling Co.

Attn: Walt Zimmerman

Box 751 Great BEnd, Kansas

Humphrey #1

	1.	2.	3.	
Specific Gravity				
Chlorides	17,900			Milligrams per liter
Calcium	2,250			Milligrams per liter
Magnesium	630			Milligrams per liter
Sulfates	1,920			Milligrams per liter
Bicarbonates	490			Milligrams per liter
Iron	1			Milligrams per liter
Hydrogen Sulfide	0			Milligrams per liter
Barium	0			Milligrams per liter
pH	7.1			
Sulfate Reducing Bacteria	none			

MAY - 8

cc: Wichita
Larry Benedict

RESPECTFULLY SUBMITTED

LABORATORY ANALYST

Manning/Medlock

BY R. H. Hausler

R. H. Hausler

To convert to parts per million, divide by specific gravity.

WA FORM 1

PHONE 316-792-2549

GORDON LAB, INC.

925 PATTON ROAD • P. O. BOX 605 • GREAT BEND, KANSAS 67530

WATER ANALYSIS

DATE May 21, 1979

TO Walters Drilling Co.

Walt Zimmerman

Box 751 Great Bend, Kansas 67530

Humphrey #1

	1.	2.	3.	
Specific Gravity	1.023			Milligrams per liter
Chlorides	17,200			Milligrams per liter
Calcium	2,200			Milligrams per liter
Magnesium	700			Milligrams per liter
Sulfates	2,120			Milligrams per liter
Bicarbonates	480			Milligrams per liter
Iron	0			Milligrams per liter
Hydrogen Sulfide	30			Milligrams per liter
Barium	0			Milligrams per liter
pH	7.1			
Sulfate Reducing Bacteria	positive			

cc: Wichita

LABORATORY ANALYST

Manning/Medlock

RESPECTFULLY SUBMITTED

BY T. J. Gordon

To convert to parts per million, divide by specific gravity.

WA FORM 1

PHONE 316-792-2549

GORDON LAB, INC.

925 PATTON ROAD • P. O. BOX 605 • GREAT BEND, KANSAS 67530

WATER ANALYSIS

DATE May 13, 1980

TO Walters Drilling Co., Inc.
Walt Zimmerman
Box 751

Great Bend, Kansas 67530

Humphrey #1

	1.	2.	3.	
Specific Gravity	1.026			
Chlorides	17,500			Milligrams per liter
Calcium	2,100			Milligrams per liter
Magnesium	515			Milligrams per liter
Sulfates	1,600			Milligrams per liter
Bicarbonates	427			Milligrams per liter
Iron	0			Milligrams per liter
Hydrogen Sulfide	60			Milligrams per liter
Barium	0			Milligrams per liter
pH	6.8			
Sulfate Reducing Bacteria				

These results compare with our analysis of December 21, 1979.

The scale sample submitted (Re: report dated May 6, 1980) indicates that solving the corrosion problem may also alleviate the scale build up in this system. We will be working on the problem with this in mind.

cc: Wichita ✓
Larry Benedict

LABORATORY ANALYST

Manning

RESPECTFULLY SUBMITTED

BY T. J. Gordon

To convert to parts per million, divide by specific gravity.

PHONE 316-792-2549

GORDON LAB, INC.

925 PATTON ROAD • P.O. Box 1506 • GREAT BEND, KANSAS 67530

WATER ANALYSIS

DATE Feb. 12, 1981

TO Walters Drilling Co., Inc.
Walt Zimmerman
Box 751

Great Bend, KS 67530

Humphrey

	1.	2.	3.	
Specific Gravity	1.027			
Chlorides	17,600			Milligrams per liter
Calcium	2,200			Milligrams per liter
Magnesium	517			Milligrams per liter
Sulfates	1,870			Milligrams per liter
Bicarbonates	430			Milligrams per liter
Iron	7			Milligrams per liter
Hydrogen Sulfide	0			Milligrams per liter
Barium	0			Milligrams per liter
pH	6.9			
Sulfate Reducing Bacteria	negative			

These results compare with our analysis on May 13, 1980.

cc: Wichita ✓
Don Froelich
Larry Benedict

LABORATORY ANALYST

Manning/Gee

RESPECTFULLY SUBMITTED

BY Stephen H. Couch

To convert to parts per million, divide by specific gravity.

WA FORM 1