

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form U3C

June 2015

Form must be Typed
Form must be completed
on a per well basis**ANNUAL REPORT OF PRESSURE MONITORING,
FLUID INJECTION AND ENHANCED RECOVERY**

Complete all blanks - add pages if needed. Copy to be retained for five (5) years after filing date.

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

Lease Name: _____

Well Number: _____

API No.: _____

Permit No.: _____

Reporting Year: _____

(January 1 to December 31)

____ - ____ - ____ - ____ Sec. ____ Twp. ____ S. R. ____ E W
(a/a/a/a)_____ feet from N / S Line of Section_____ feet from E / W Line of Section

County: _____

I. Injection Fluid:Type (Pick one): Fresh Water Treated Brine Untreated Brine Water/BrineSource: Produced Water Other (Attach list)

Quality: Total Dissolved Solids: _____ mg/l Specific Gravity: _____ Additives: _____

(Attach water analysis, if available)

II. Well Data:

Maximum Authorized Injection Pressure: _____ psi Injection Zone: _____

Maximum Authorized Injection Rate: _____ barrels per day

Total Number of Enhanced Recovery Injection Wells Covered by this Permit: _____ (Include TA's)

| III. | Month: | Total Fluid Injected BBL | Maximum Fluid Pressure | Total Gas Injected MCF | Maximum Gas Pressure | # Days of Injection |
|------|--------------|-----------------------------|---------------------------|---------------------------|-------------------------|------------------------|
| | January | _____ | _____ | _____ | _____ | _____ |
| | February | _____ | _____ | _____ | _____ | _____ |
| | March | _____ | _____ | _____ | _____ | _____ |
| | April | _____ | _____ | _____ | _____ | _____ |
| | May | _____ | _____ | _____ | _____ | _____ |
| | June | _____ | _____ | _____ | _____ | _____ |
| | July | _____ | _____ | _____ | _____ | _____ |
| | August | _____ | _____ | _____ | _____ | _____ |
| | September | _____ | _____ | _____ | _____ | _____ |
| | October | _____ | _____ | _____ | _____ | _____ |
| | November | _____ | _____ | _____ | _____ | _____ |
| | December | _____ | _____ | _____ | _____ | _____ |
| | TOTAL | _____ | _____ | _____ | _____ | _____ |

Submitted Electronically

Complete Water Analysis

Customer: **SHAKESPEARE OIL COMPANY**
 Formation Zone:
 Geographic Region: **Kansas**
 Geographic Location: **Lane County**
 System Description: **Production System**

Equipment Description: **COG 2-35**
 Sample Point: **Bleeder**
 Customer ID:
 Latitude/Longitude: **0.00, 0.00**
 Account Rep: **Michael.Walters@championx.com**

Collect Date: **03/03/2023**
 Submit Date: **03/14/2023**
 Report Date: **03/16/2023**
 Sample ID: **AV24111**
 Location Code: **503715**

| Field Analysis | | |
|----------------------------------|----------|-----------------|
| Analysis | Result | Analysis Method |
| Total Alkalinity (M-Alk as HCO3) | 322 mg/L | Titration |
| Dissolved CO2 | 370 mg/L | Titration |
| Dissolved H2S | 65 mg/L | Titration |
| Pressure Surface | 25 psi | |
| Temperature | 100 ° F | |
| pH of Water | 7.5 | Meter |

| Sample Analysis | | |
|---------------------------|------------|-----------------|
| Analysis | Result | Analysis Method |
| Specific Gravity | 1.043 | Densitometer |
| Ionic Strength | 1.08 mol/L | Calculation |
| Total Dissolved Solids | 59400 mg/L | Calculation |
| Calculated pH | 7.50 | Calculation |
| Calculated CO2 in the gas | 0.310 % | Calculation |

Cations - Analyzed By ICP

| | | | | | |
|-----------|-------------|----------|-------------|-----------------|-------------|
| Iron | <0.500 mg/L | Boron | 27.3 mg/L | Silicon | 9.49 mg/L |
| Manganese | 0.389 mg/L | Lithium | 4.02 mg/L | Aluminum | <0.400 mg/L |
| Barium | 0.113 mg/L | Copper | <0.200 mg/L | Molybdenum | <0.200 mg/L |
| Strontium | 33.9 mg/L | Nickel | <0.200 mg/L | Phosphorus | 1.91 mg/L |
| Calcium | 1330 mg/L | Zinc | <0.400 mg/L | Measured Sodium | 20000 mg/L |
| Magnesium | 417 mg/L | Lead | <0.500 mg/L | | |
| Sodium | 20000 mg/L | Cobalt | 1.10 mg/L | | |
| Potassium | 210 mg/L | Chromium | <0.100 mg/L | | |

Anions - Analyzed by IC*

| | | | | | |
|----------|------------|---------|-----------|---------|-----------|
| Chloride | 34200 mg/L | Bromide | 30.2 mg/L | Sulfate | 2830 mg/L |
|----------|------------|---------|-----------|---------|-----------|

PTB

| | Anhydrite | Barite | Calcite | Celestite | Gypsum | Halite | Iron Carbonate | Iron Sulfide |
|------|-----------|--------|---------|-----------|--------|--------|----------------|--------------|
| 50° | 0.00 | 0.05 | 41.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 75° | 0.00 | 0.04 | 44.74 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 100° | 0.00 | 0.03 | 47.84 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 125° | 0.00 | 0.01 | 50.77 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 150° | 0.00 | 0.00 | 53.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 175° | 55.57 | 0.00 | 56.04 | 0.78 | 0.00 | 0.00 | 0.00 | 0.00 |
| 200° | 282.33 | 0.00 | 58.38 | 4.33 | 0.00 | 0.00 | 0.00 | 0.00 |
| 225° | 430.40 | 0.00 | 60.57 | 7.54 | 0.00 | 0.00 | 0.00 | 0.00 |
| 250° | 589.17 | 0.00 | 62.62 | 10.36 | 0.00 | 0.00 | 0.00 | 0.00 |
| 275° | 685.18 | 0.00 | 64.57 | 12.77 | 0.00 | 0.00 | 0.00 | 0.00 |
| 300° | 783.49 | 0.00 | 66.44 | 14.82 | 0.00 | 0.00 | 0.00 | 0.00 |
| 325° | 867.83 | 0.00 | 68.26 | 16.53 | 0.00 | 0.00 | 0.00 | 0.00 |
| 350° | 940.94 | 0.00 | 70.05 | 17.95 | 0.00 | 0.00 | 0.00 | 0.00 |
| 375° | 1,004.78 | 0.00 | 71.83 | 19.12 | 0.00 | 0.00 | 0.00 | 0.00 |
| 400° | 1,060.67 | 0.00 | 73.62 | 20.06 | 433.12 | 0.00 | 0.00 | 0.00 |

SI

| | Anhydrite | Barite | Calcite | Celestite | Gypsum | Halite |
|------|-----------|--------|---------|-----------|--------|--------|
| 50° | -0.83 | 0.67 | 0.82 | -0.17 | -0.23 | -1.98 |
| 75° | -0.62 | 0.42 | 0.88 | -0.17 | -0.25 | -2.01 |
| 100° | -0.43 | 0.22 | 0.95 | -0.15 | -0.24 | -2.04 |
| 125° | -0.27 | 0.05 | 1.04 | -0.10 | -0.22 | -2.05 |
| 150° | -0.11 | -0.08 | 1.14 | -0.05 | -0.20 | -2.06 |
| 175° | 0.03 | -0.19 | 1.26 | 0.01 | -0.20 | -2.06 |
| 200° | 0.17 | -0.27 | 1.38 | 0.01 | -0.20 | -2.06 |
| 225° | 0.30 | -0.33 | 1.51 | 0.16 | -0.22 | -2.05 |
| 250° | 0.42 | -0.38 | 1.64 | 0.24 | -0.24 | -2.04 |
| 275° | 0.54 | -0.42 | 1.77 | 0.32 | -0.25 | -2.03 |
| 300° | 0.65 | -0.45 | 1.89 | 0.40 | -0.26 | -2.02 |
| 325° | 0.76 | -0.49 | 2.01 | 0.48 | -0.23 | -2.00 |
| 350° | 0.87 | -0.52 | 2.12 | 0.56 | -0.16 | -1.97 |
| 375° | 0.98 | -0.55 | 2.23 | 0.64 | -0.01 | -1.94 |
| 400° | 1.09 | -0.59 | 2.32 | 0.72 | 0.23 | -1.91 |

Comments

Scaling predictions calculated using Scale Soft Pitzer 2019

Scaling predictions dependent on provided field data. Incomplete/partial field data may impact results generated by scaling software.

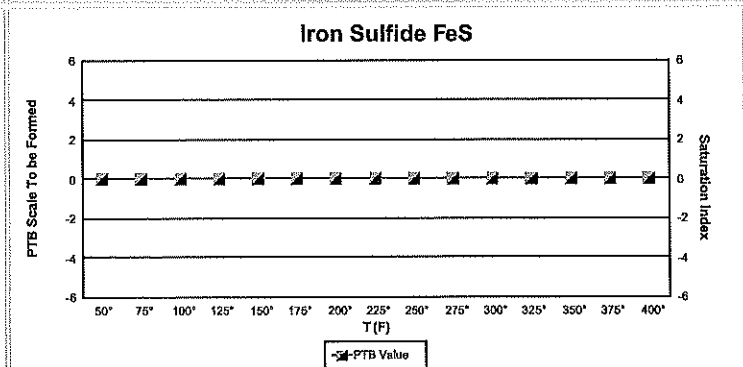
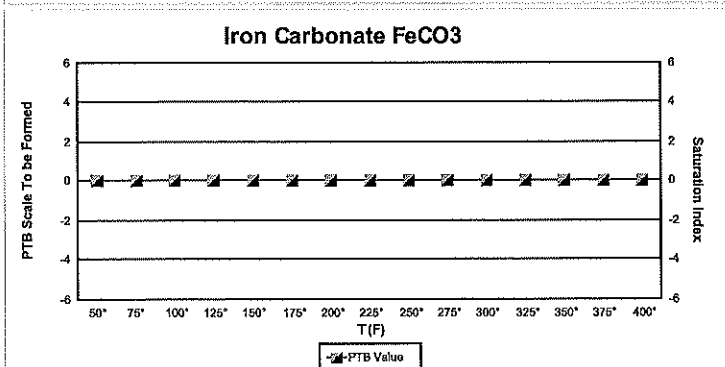
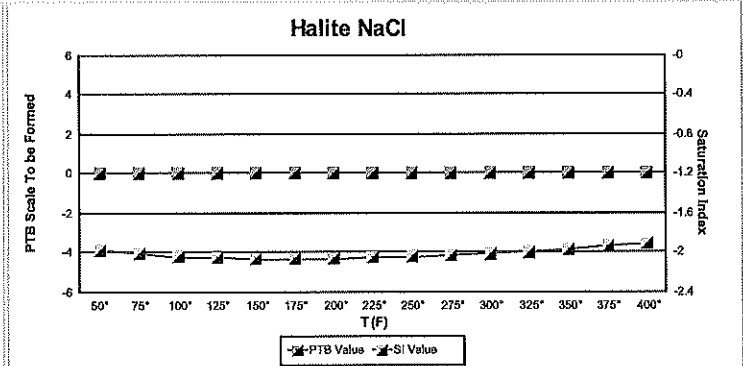
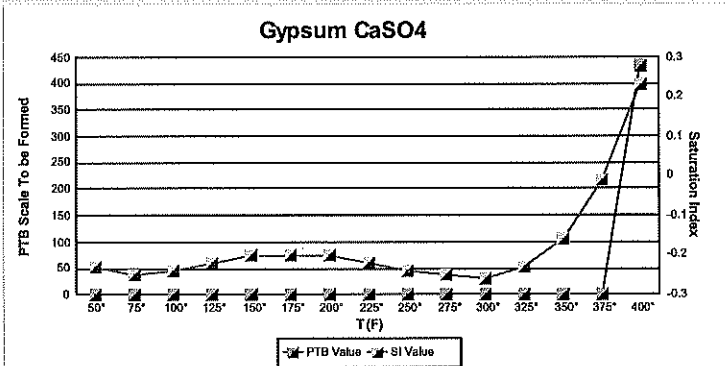
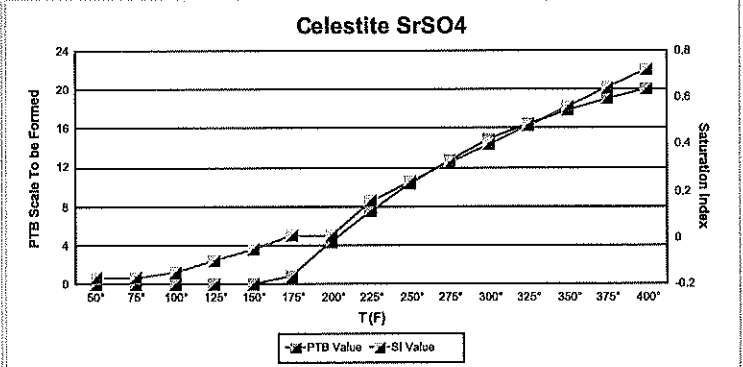
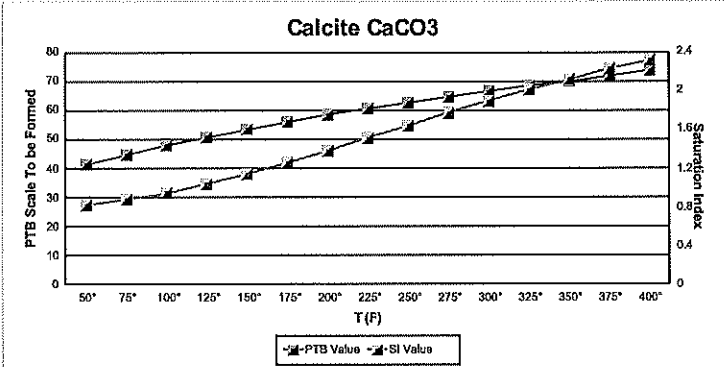
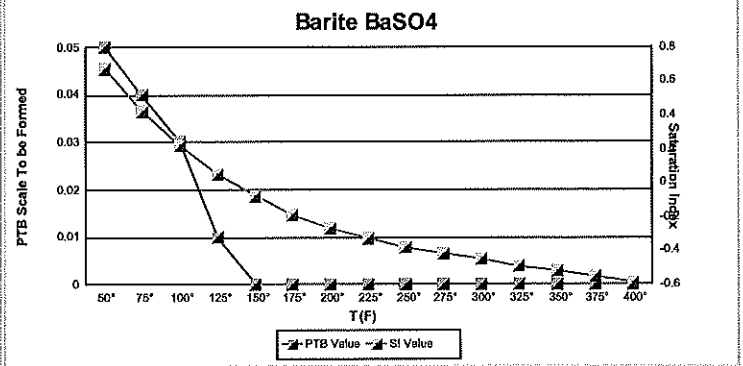
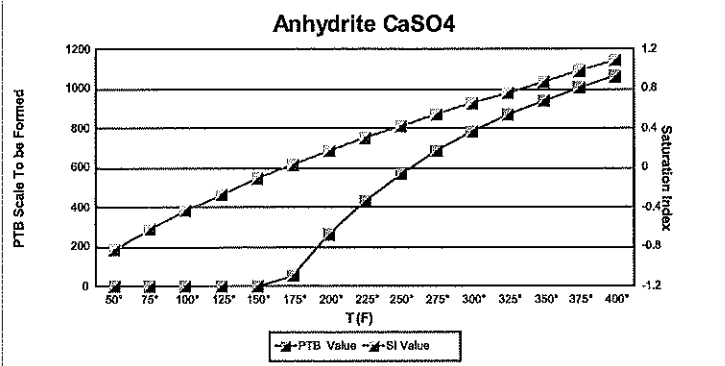
This document contains the confidential and/or proprietary information of ChampionX. The recipient agrees to maintain the confidentiality of the terms of this document, and shall not reproduce it by any means, disclose the contents of it to any third party, or use the contents of it for any purpose other than the purpose for which it was intended by ChampionX.
 03/29/2023

Complete Water Analysis

Customer: SHAKESPEARE OIL COMPANY
 Formation Zone:
 Geographic Region: Kansas
 Geographic Location: Lane County
 System Description: Production System

Equipment Description: COG 2-35
 Sample Point: Bleeder
 Customer ID:
 Latitude/Longitude: 0.00, 0.00
 Account Rep: Michael.Walters@championx.com

Collect Date: 03/03/2023
 Submit Date: 03/14/2023
 Report Date: 03/16/2023
 Sample ID: AV24111
 Location Code: 503715



Scaling predictions calculated using Scale Soft Pitzer 2019

Scaling predictions dependent on provided field data. Incomplete/partial field data may impact results generated by scaling software.

This document contains the confidential and/or proprietary information of ChampionX. The recipient agrees to maintain the confidentiality of the terms of this document, and shall not reproduce it by any means, disclose the contents of it to any third party, or use the contents of it for any purpose other than the purpose for which it was intended by ChampionX. 03/29/2023

Summary of Changes

Lease Name and Number: COG 2-35

New Doc ID: 1707098

Parent Doc ID: 1701811

Correction Number: 1

| Field Name | Previous Value | New Value |
|------------------|----------------|------------|
| Date Accepted | 03/06/2023 | 04/13/2023 |
| Quality TDS | 90518 | 59400 |
| Specific Gravity | 1.055 | 1.043 |

Summary of Attachments

Lease Name and Number: COG 2-35

API: 15-171-21091-00-00

Doc ID: 1707098

Correction Number: 1

Attachment Name