

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: **Janzen 3-36**
 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: **AV24109**
 Location Code: **503714**

| Field Analysis | | |
|---|----------|-----------------|
| Analysis | Result | Analysis Method |
| Total Alkalinity (M-Alk as HCO ₃) | 371 mg/L | Titration |
| Dissolved CO ₂ | 480 mg/L | Titration |
| Dissolved H ₂ S | 71 mg/L | Titration |
| Pressure Surface | 25 psi | |
| Temperature | 100 °F | |
| pH of Water | 7.5 | Meter |

| Sample Analysis | | |
|---------------------------------------|-------------|-----------------|
| Analysis | Result | Analysis Method |
| Specific Gravity | 1.074 | Densitometer |
| Ionic Strength | 1.92 mol/L | Calculation |
| Total Dissolved Solids | 109000 mg/L | Calculation |
| Calculated pH | 7.50 | Calculation |
| Calculated CO ₂ in the gas | 0.310 % | Calculation |

Cations - Analyzed By ICP

| | | | | | |
|-----------|-------------|----------|-------------|-----------------|-------------|
| Iron | <0.500 mg/L | Boron | 23.9 mg/L | Silicon | 7.64 mg/L |
| Manganese | 0.203 mg/L | Lithium | 3.48 mg/L | Aluminum | <0.400 mg/L |
| Barium | 0.130 mg/L | Copper | <0.200 mg/L | Molybdenum | <0.200 mg/L |
| Strontium | 34.9 mg/L | Nickel | 0.246 mg/L | Phosphorus | <0.500 mg/L |
| Calcium | 1320 mg/L | Zinc | <0.400 mg/L | Measured Sodium | 38400 mg/L |
| Magnesium | 470 mg/L | Lead | <0.500 mg/L | | |
| Sodium | 38400 mg/L | Cobalt | 1.34 mg/L | | |
| Potassium | 215 mg/L | Chromium | <0.100 mg/L | | |

Anions - Analyzed by IC*

| | | | | | |
|----------|------------|---------|-----------|---------|-----------|
| Chloride | 65400 mg/L | Bromide | 29.6 mg/L | Sulfate | 2360 mg/L |
|----------|------------|---------|-----------|---------|-----------|

| | PTB | | | | | | | |
|------|-----------|--------|---------|-----------|--------|--------|----------------|--------------|
| | Anhydrite | Barite | Calcite | Celestite | Gypsum | Halite | Iron Carbonate | Iron Sulfide |
| 50° | 0.00 | 0.05 | 52.81 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 75° | 0.00 | 0.03 | 56.99 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 100° | 0.00 | 0.00 | 60.58 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 125° | 0.00 | 0.00 | 63.66 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 150° | 0.00 | 0.00 | 66.31 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 175° | 0.00 | 0.00 | 68.64 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 200° | 0.00 | 0.00 | 70.70 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 225° | 133.28 | 0.00 | 72.58 | 0.60 | 0.00 | 0.00 | 0.00 | 0.00 |
| 250° | 281.25 | 0.00 | 74.32 | 4.51 | 0.00 | 0.00 | 0.00 | 0.00 |
| 275° | 403.25 | 0.00 | 75.97 | 7.80 | 0.00 | 0.00 | 0.00 | 0.00 |
| 300° | 505.38 | 0.00 | 77.55 | 10.55 | 0.00 | 0.00 | 0.00 | 0.00 |
| 325° | 592.13 | 0.00 | 79.11 | 12.85 | 0.00 | 0.00 | 0.00 | 0.00 |
| 350° | 666.79 | 0.00 | 80.67 | 14.77 | 0.00 | 0.00 | 0.00 | 0.00 |
| 375° | 731.69 | 0.00 | 82.24 | 16.37 | 0.00 | 0.00 | 0.00 | 0.00 |
| 400° | 788.31 | 0.00 | 83.83 | 17.68 | 0.00 | 0.00 | 0.00 | 0.00 |

| | SI | | | | | | |
|------|-----------|--------|---------|-----------|--------|--------|--|
| | Anhydrite | Barite | Calcite | Celestite | Gypsum | Halite | |
| 50° | -1.05 | 0.42 | 0.97 | -0.40 | -0.48 | -1.39 | |
| 75° | -0.83 | 0.20 | 1.05 | -0.37 | -0.48 | -1.42 | |
| 100° | -0.63 | 0.01 | 1.14 | -0.33 | -0.47 | -1.43 | |
| 125° | -0.46 | -0.14 | 1.23 | -0.27 | -0.44 | -1.44 | |
| 150° | -0.30 | -0.27 | 1.34 | -0.21 | -0.43 | -1.45 | |
| 175° | -0.16 | -0.37 | 1.45 | -0.14 | -0.42 | -1.45 | |
| 200° | -0.03 | -0.45 | 1.57 | -0.14 | -0.43 | -1.45 | |
| 225° | 0.09 | -0.51 | 1.69 | 0.01 | -0.45 | -1.45 | |
| 250° | 0.20 | -0.57 | 1.81 | 0.09 | -0.48 | -1.45 | |
| 275° | 0.31 | -0.62 | 1.92 | 0.16 | -0.51 | -1.45 | |
| 300° | 0.41 | -0.66 | 2.03 | 0.23 | -0.52 | -1.44 | |
| 325° | 0.51 | -0.71 | 2.13 | 0.31 | -0.51 | -1.43 | |
| 350° | 0.60 | -0.75 | 2.22 | 0.38 | -0.45 | -1.41 | |
| 375° | 0.70 | -0.80 | 2.30 | 0.45 | -0.32 | -1.40 | |
| 400° | 0.79 | -0.86 | 2.37 | 0.51 | -0.10 | -1.38 | |

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.

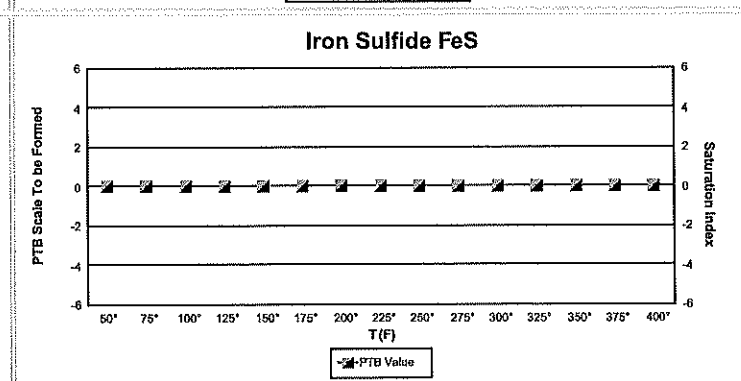
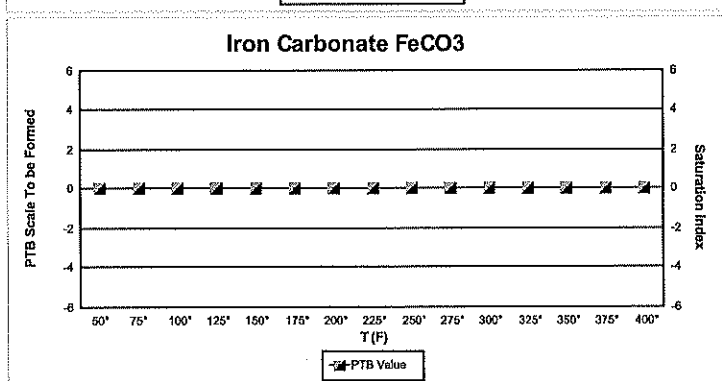
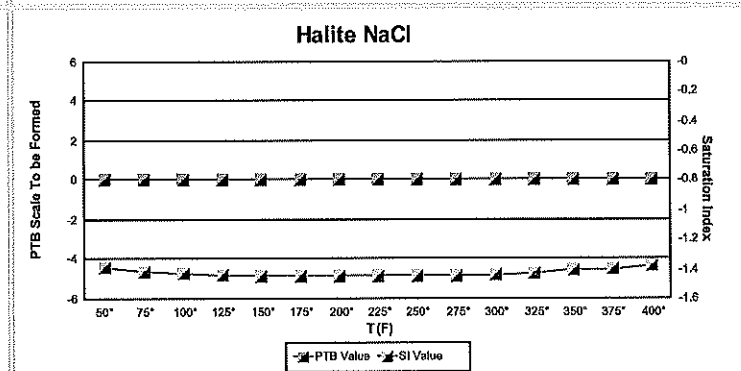
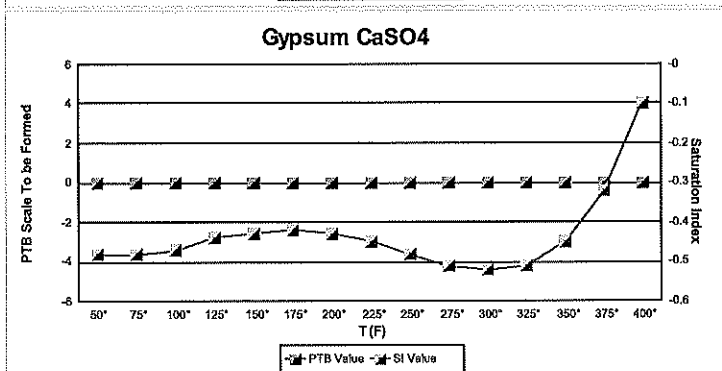
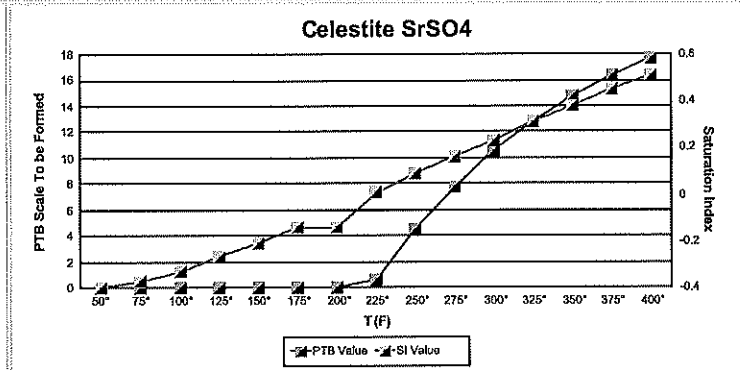
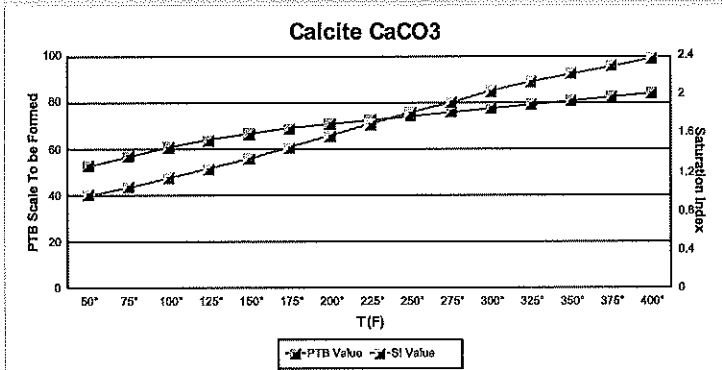
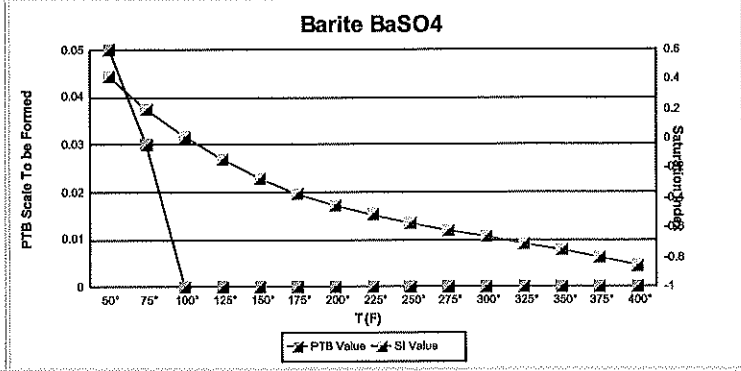
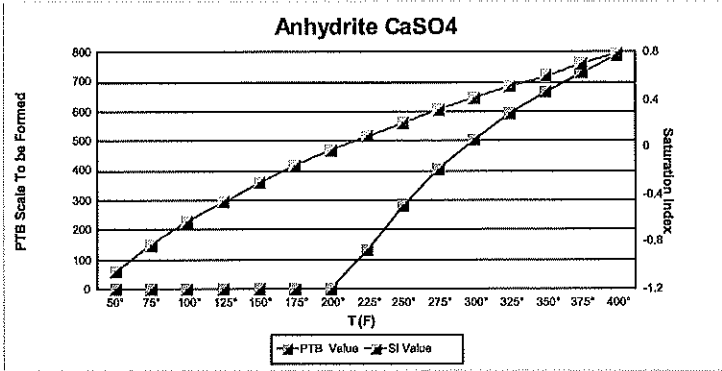
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 03/29/2023

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Summary of Changes

Lease Name and Number: JANZEN 3-36

New Doc ID: 1707097

Parent Doc ID: 1701824

Correction Number: 1

| Field Name | Previous Value | New Value |
|------------------|----------------|------------|
| Date Accepted | 03/06/2023 | 04/13/2023 |
| Quality TDS | 85910 | 109000 |
| Specific Gravity | 1.045 | 1.074 |

Summary of Attachments

Lease Name and Number: JANZEN 3-36

API: 15-171-21026-00-01

Doc ID: 1707097

Correction Number: 1

Attachment Name