

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/Brine
Source: 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 | _____ | _____ | _____ | _____ | _____ |



DownHole SAT®

FORMATION WATER CHEMISTRY INPUT

Enterra Resources
 WSMU 2-1, 1-1, 1-2
 Wellhead

Pro-Stim Chemicals
 Troy Pelton

Report Date: 10-07-2020
 Sample #: 9488

Sampled: 10-05-2020 at 0823
 Sample ID: WBaten

CATIONS

| | |
|-------------------------------|--------|
| Calcium (as Ca) | 4565 |
| Magnesium (as Mg) | 947.00 |
| Barium (as Ba) | 45.00 |
| Strontium (as Sr) | 0.00 |
| Sodium (as Na) | 46789 |
| Potassium (as K) | 0.00 |
| Lithium (as Li) | 0.00 |
| Ammonia (as NH ₃) | 0.00 |
| Aluminum (as Al) | 0.00 |
| Iron (as Fe) | 16.20 |
| Manganese (as Mn) | 0.281 |
| Zinc (as Zn) | 0.00 |
| Lead (as Pb) | 0.00 |

ANIONS

| | |
|---|--------|
| Chloride (as Cl) | 82371 |
| Sulfate (as SO ₄) | 1313 |
| Bromine (as Br) | 0.00 |
| Dissolved CO ₂ (as CO ₂) | 99.00 |
| Bicarbonate (as HCO ₃) | 200.00 |
| Carbonate (as CO ₃) | 0.00 |
| Oxalic acid (as C ₂ O ₄) | 0.00 |
| Silica (as SiO ₂) | 0.00 |
| Phosphate(as PO ₄) | 0.00 |
| H ₂ S (as H ₂ S) | 0.00 |
| Fluoride (as F) | 0.00 |
| Nitrate (as NO ₃) | 0.00 |
| Boron (as B) | 0.00 |

PARAMETERS

| | |
|-------------------------|--------|
| Calculated T.D.S. | 132903 |
| Molar Conductivity | 198303 |
| Resistivity | 5.04 |
| Sp.Gr.(g/mL) | 1.08 |
| Pressure(psia) | 14.70 |
| pCO ₂ (psia) | 0.0315 |
| pH ₂ S(atm) | 0.00 |
| Temperature (°F) | 72.00 |
| pH | 6.49 |

CORROSION RATE PREDICTION

| | |
|--|--------|
| CO ₂ - H ₂ S Rate(mpy) | 0.0107 |
|--|--------|

COMMENTS All anions & cations are in mg/l

SGB Solutions

5918 S County Road 1273, Midland, TX 79706



DownHole SAT®
FORMATION WATER
DEPOSITION POTENTIAL INDICATORS

Enterra Resources
 WSMU 2-1
 Wellhead

Pro-Stim Chemicals
 Troy Pelton

Report Date: 10-07-2020
 Sample #: 9488

Sampled: 10-05-2020 at 0823
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SATURATION LEVEL

| | |
|--|---------|
| Calcite (CaCO ₃) | 0.992 |
| Aragonite (CaCO ₃) | 0.928 |
| Witherite (BaCO ₃) | 0.00186 |
| Strontianite (SrCO ₃) | 0.00 |
| Calcium oxalate (CaC ₂ O ₄) | 0.00 |
| Magnesite (MgCO ₃) | 0.207 |
| Anhydrite (CaSO ₄) | 0.490 |
| Gypsum (CaSO ₄ *2H ₂ O) | 0.705 |
| Barite (BaSO ₄) | 256.48 |
| Celestite (SrSO ₄) | 0.00 |
| Fluorite (CaF ₂) | 0.00 |
| Calcium phosphate | 0.00 |
| Hydroxyapatite | 0.00 |
| Silica (SiO ₂) | 0.00 |
| Brucite (Mg(OH) ₂) | < 0.001 |
| Magnesium silicate | 0.00 |
| Iron hydroxide (Fe(OH) ₃) | 9.08 |
| Strengite (FePO ₄ *2H ₂ O) | 0.00 |
| Siderite (FeCO ₃) | 2.88 |
| Halite (NaCl) | 0.0641 |
| Thenardite (Na ₂ SO ₄) | < 0.001 |
| Iron sulfide (FeS) | 0.00 |

FREE ION MOMENTARY EXCESS (ppm)

| | |
|--|----------|
| Calcite (CaCO ₃) | > -0.001 |
| Aragonite (CaCO ₃) | -0.00600 |
| Witherite (BaCO ₃) | -46.97 |
| Strontianite (SrCO ₃) | -23.46 |
| Calcium oxalate (CaC ₂ O ₄) | -0.0376 |
| Magnesite (MgCO ₃) | -0.247 |
| Anhydrite (CaSO ₄) | -691.77 |
| Gypsum (CaSO ₄ *2H ₂ O) | -323.61 |
| Barite (BaSO ₄) | 76.16 |
| Celestite (SrSO ₄) | -388.74 |
| Fluorite (CaF ₂) | -10.71 |
| Calcium phosphate | > -0.001 |
| Hydroxyapatite | -919.33 |
| Silica (SiO ₂) | -89.94 |
| Brucite (Mg(OH) ₂) | 0.00228 |
| Magnesium silicate | -279.61 |
| Iron hydroxide (Fe(OH) ₃) | < 0.001 |
| Strengite (FePO ₄ *2H ₂ O) | > -0.001 |
| Siderite (FeCO ₃) | 0.0581 |
| Halite (NaCl) | -364442 |
| Thenardite (Na ₂ SO ₄) | -233465 |
| Iron sulfide (FeS) | -0.675 |

SIMPLE INDICES

| | |
|--------------------|--------|
| Langelier | 0.394 |
| Ryznar | 5.70 |
| Puckorius | 4.50 |
| Larson-Skold Index | 762.74 |
| Stiff Davis Index | -0.173 |
| Oddo-Tomson | -0.739 |

BOUND IONS

| | TOTAL | FREE |
|-----------|--------------|-------------|
| Calcium | 4565 | 4376 |
| Barium | 45.00 | 45.00 |
| Carbonate | 3.04 | 0.0461 |
| Phosphate | 0.00 | 0.00 |
| Sulfate | 1313 | 514.34 |

OPERATING CONDITIONS

| | |
|------------------|-------|
| Temperature (°F) | 72.00 |
| Time(mins) | 3.00 |

SGB Solutions
5918 S County Road 1273, Midland, TX 79706