

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	_____	_____	_____	_____	_____
	<b>TOTAL</b>	_____	_____	_____	_____	_____



**DownHole SAT®**  
**FORMATION WATER**  
**DEPOSITION POTENTIAL INDICATORS**

Enterra Resources  
 WMU 41-2

Pro-Stim Chemicals  
 Troy Pelton

*(Water injected into WMU 41-1)*

*WMU 42-3*  
*WMU 42-4*

Report Date: 06-14-2022    Sampled: 06-07-2022 at 0823  
 Sample #: 13906    Sample ID: WBAten

**SATURATION LEVEL**

Calcite (CaCO <sub>3</sub> )	0.625
Aragonite (CaCO <sub>3</sub> )	0.579
Witherite (BaCO <sub>3</sub> )	0.00
Strontianite (SrCO <sub>3</sub> )	0.00
Calcium oxalate (CaC <sub>2</sub> O <sub>4</sub> )	0.00
Magnesite (MgCO <sub>3</sub> )	0.155
Anhydrite (CaSO <sub>4</sub> )	0.102
Gypsum (CaSO <sub>4</sub> *2H <sub>2</sub> O)	0.169
Barite (BaSO <sub>4</sub> )	0.00
Celestite (SrSO <sub>4</sub> )	0.00
Fluorite (CaF <sub>2</sub> )	0.00
Calcium phosphate	0.00
Hydroxyapatite	0.00
Silica (SiO <sub>2</sub> )	0.00
Brucite (Mg(OH) <sub>2</sub> )	< 0.001
Magnesium silicate	0.00
Iron hydroxide (Fe(OH) <sub>3</sub> )	136.61
Strengite (FePO <sub>4</sub> *2H <sub>2</sub> O)	0.00
Siderite (FeCO <sub>3</sub> )	66.37
Halite (NaCl)	< 0.001
Thenardite (Na <sub>2</sub> SO <sub>4</sub> )	< 0.001
Iron sulfide (FeS)	0.00

**FREE ION MOMENTARY EXCESS (ppm)**

Calcite (CaCO <sub>3</sub> )	-0.209
Aragonite (CaCO <sub>3</sub> )	-0.253
Witherite (BaCO <sub>3</sub> )	-23.39
Strontianite (SrCO <sub>3</sub> )	-7.57
Calcium oxalate (CaC <sub>2</sub> O <sub>4</sub> )	-0.282
Magnesite (MgCO <sub>3</sub> )	-1.59
Anhydrite (CaSO <sub>4</sub> )	-1402
Gypsum (CaSO <sub>4</sub> *2H <sub>2</sub> O)	-1062
Barite (BaSO <sub>4</sub> )	-0.0224
Celestite (SrSO <sub>4</sub> )	-37.61
Fluorite (CaF <sub>2</sub> )	-33.21
Calcium phosphate	> -0.001
Hydroxyapatite	-574.45
Silica (SiO <sub>2</sub> )	-118.44
Brucite (Mg(OH) <sub>2</sub> )	0.00402
Magnesium silicate	-231.35
Iron hydroxide (Fe(OH) <sub>3</sub> )	< 0.001
Strengite (FePO <sub>4</sub> *2H <sub>2</sub> O)	> -0.001
Siderite (FeCO <sub>3</sub> )	0.399
Halite (NaCl)	-446285
Thenardite (Na <sub>2</sub> SO <sub>4</sub> )	-120230
Iron sulfide (FeS)	-0.0606

**SIMPLE INDICES**

Langelier	-0.0806
Ryznar	6.95
Puckorius	5.48
Larson-Skold Index	7.05
Stiff Davis Index	-0.211
Oddo-Tomson	-0.214

**BOUND IONS**

Calcium	201.50	159.26
Barium	0.00	0.00
Carbonate	0.629	0.210
Phosphate	0.00	0.00
Sulfate	715.00	569.33

**OPERATING CONDITIONS**

Temperature (°F)	76.00
Time(mins)	3.00

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



**DownHole SAT®**  
FORMATION WATER CHEMISTRY INPUT

Enterra Resources  
WMU 41-2

Pro-Stim Chemicals  
Troy Pelton

*(Water injected into WMU 91-1)*

*WMU42-3  
WMU42-4*

Report Date: 06-14-2022    Sampled: 06-07-2022 at 0823  
Sample #: 13906    Sample ID: WBaten

**CATIONS**

Calcium (as Ca)	201.50
Magnesium (as Mg)	63.18
Barium (as Ba)	0.00
Strontium (as Sr)	0.00
Sodium (as Na)	914.56
Potassium (as K)	0.00
Lithium (as Li)	0.00
Ammonia (as NH <sub>3</sub> )	0.00
Aluminum (as Al)	0.00
Iron (as Fe)	11.73
Manganese (as Mn)	0.0950
Zinc (as Zn)	0.00
Lead (as Pb)	0.00

**ANIONS**

Chloride (as Cl)	1197
Sulfate (as SO <sub>4</sub> )	715.00
Bromine (as Br)	0.00
Dissolved CO <sub>2</sub> (as CO <sub>2</sub> )	136.00
Bicarbonate (as HCO <sub>3</sub> )	422.00
Carbonate (as CO <sub>3</sub> )	0.00
Oxalic acid (as C <sub>2</sub> O <sub>4</sub> )	0.00
Silica (as SiO <sub>2</sub> )	0.00
Phosphate(as PO <sub>4</sub> )	0.00
H <sub>2</sub> S (as H <sub>2</sub> S)	0.00
Fluoride (as F)	0.00
Nitrate (as NO <sub>3</sub> )	0.00
Boron (as B)	0.00

**PARAMETERS**

Calculated T.D.S.	3530
Molar Conductivity	4603
Resistivity	217.23
Sp.Gr.(g/mL)	1.00
Pressure(psia)	14.70
pCO <sub>2</sub> (psia)	0.0487
pH <sub>2</sub> S(atm)	0.00
Temperature (°F)	76.00
pH	6.79

**CORROSION RATE PREDICTION**

CO <sub>2</sub> - H <sub>2</sub> S Rate(mpy)	0.0152
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**COMMENTS** All anions & cations are in mg/l

SGB Solutions  
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