

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	_____	_____	_____	_____	_____



Baker Hughes
1625 W Road
Plainville Kansas, 67863

Report Date: 1/23/2019

Complete Water Analysis Report SSP v.8

Customer:	Fossil Energy	Sample Date:	1/23/2019
District:	Kansas	Log Out Date:	1/23/2019
Area:	Barton county	Sample ID:	Seifers #2 SWD
Lease:	Seifers #2 Water tank	Analyst:	Bill Foster
Sample Point Name	Bleeder	Chemical Used:	
Sales Rep:	Bill Foster	Comments:	

Fossil Energy, Seifers #2 Water tank, Bleeder

Field Data		Analysis of Sample											
		Anions:		mg/L		meq/L		Cations:		mg/L		meq/L	
Initial Temperature (°F):	140	Chloride (Cl ⁻):	22000	619.7	Sodium (Na ⁺):	12041	525.8						
Final Temperature (°F):	70	Sulfate (SO ₄ ²⁻):	50	1.0	Potassium (K ⁺):	0	0.0						
Initial Pressure (psi):	15	Borate (H ₃ BO ₃):	0.0	0.0	Magnesium (Mg ²⁺):	454	37.4						
Final Pressure (psi):	15	Fluoride (F ⁻):	0.0	0.0	Calcium (Ca ²⁺):	1200	59.9						
pH:		Bromide (Br ⁻):	0.0	0.0	Strontium (Sr ²⁺):	0	0.0						
pH at time of sampling:	7.1	Nitrite (NO ₂ ⁻):	0.0	0.0	Barium (Ba ²⁺):	0.0	0.0						
pH at time of analysis:	NA	Nitrate (NO ₃ ⁻):	0.0	0.0	Iron (Fe ²⁺):	0.0	0.0						
pH used in Calcs:	7.1	Phosphate (PO ₄ ³⁻):	0.0	0.0	Manganese (Mn ²⁺):	0.00	0.0						
		Silica (SiO ₂):	0.0	0.0	Lead (Pb ²⁺):	0.00	0.0						
					Zinc (Zn ²⁺):	0.0	0.0						
Alkalinity by Titration:	mg/L	meq/L			Aluminum (Al ³⁺):	0.0	0.0						
Bicarbonate (HCO ₃ ⁻):	545	8.9			Chromium (Cr ³⁺):	0.0	0.0						
Carbonate (CO ₃ ²⁻):	0	0.0			Cobalt (Co ²⁺):	0.0	0.0						
Hydroxide (OH ⁻):	0	0.0			Copper (Cu ²⁺):	0.0	0.0						
aqueous CO ₂ (ppm):	0.0				Molybdenum (Mo ²⁺):	0.0	0.0						
aqueous H ₂ S (ppm):	0.0				Nickel (Ni ²⁺):	0.0	0.0						
aqueous O ₂ (ppb):	0.0				Tin (Sn ²⁺):	0.0	0.0						
Calculated TDS (mg/L):	36290				Titanium (Ti ²⁺):	0.0	0.0						
Density/Specific Gravity (g/cm ³):	1.0250				Vanadium (V ²⁺):	0.0	0.0						
Measured Density/Specific Gravity	1				Zirconium (Zr ²⁺):	0.0	0.0						
Conductivity (µmhos):	0				Total Hardness:	5200	N/A						
MCF/D:	0												
BOPD:	0												
BWPD:	0				Anion/Cation Ratio:	1.01							

Conditions		Barite (BaSO ₄)		Calcite (CaCO ₃)		Gypsum (CaSO ₄ ·2H ₂ O)		Anhydrite (CaSO ₄)	
Temp	Press.	Index	Amt (PTB)	Index	Amt (PTB)	Index	Amount	Index	Amt (PTB)
70°F	15 psi		0.000	0.87	77.926	-1.82	0.000	-2.09	0.000
78°F	15 psi		0.000	0.94	82.676	-1.82	0.000	-2.06	0.000
86°F	15 psi		0.000	1.00	87.211	-1.82	0.000	-2.03	0.000
93°F	15 psi		0.000	1.07	91.531	-1.82	0.000	-2.00	0.000
101°F	15 psi		0.000	1.13	95.634	-1.82	0.000	-1.96	0.000
109°F	15 psi		0.000	1.20	99.524	-1.82	0.000	-1.92	0.000
117°F	15 psi		0.000	1.26	103.202	-1.81	0.000	-1.89	0.000
124°F	15 psi		0.000	1.33	106.675	-1.81	0.000	-1.85	0.000
132°F	15 psi		0.000	1.39	109.949	-1.80	0.000	-1.80	0.000
140°F	15 psi		0.000	1.45	113.032	-1.79	0.000	-1.76	0.000

Conditions		Celestite (SrSO ₄)		Halite (NaCl)		Iron Sulfide (FeS)		Iron Carbonate (FeCO ₃)	
Temp	Press.	Index	Amt (PTB)	Index	Amt (PTB)	Index	Amt (PTB)	Index	Amt (PTB)
70°F	15 psi		0.000	-2.40	0.000	0	0.000		0.000
78°F	15 psi		0.000	-2.41	0.000	0	0.000		0.000
86°F	15 psi		0.000	-2.42	0.000	0	0.000		0.000
93°F	15 psi		0.000	-2.42	0.000	0	0.000		0.000
101°F	15 psi		0.000	-2.43	0.000	0	0.000		0.000
109°F	15 psi		0.000	-2.44	0.000	0	0.000		0.000
117°F	15 psi		0.000	-2.44	0.000	0	0.000		0.000
124°F	15 psi		0.000	-2.45	0.000	0	0.000		0.000
132°F	15 psi		0.000	-2.45	0.000	0	0.000		0.000
140°F	15 psi		0.000	-2.45	0.000	0	0.000		0.000

Note 1: When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered
 Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the eight (8) scales.
 Note 3: Saturation Index predictions on this sheet use pH and alkalinity. %CO₂ is not included in the calculations.



Sample ID: Seifers #2 SWD Fossil Energy, Seifers #2 Water tank, Bleeder

