

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>	_____	_____	_____	_____	_____



HAYS LAB  
Address  
HAYS KANSAS, 67601

Report Date: 2/28/2018

Complete Water Analysis Report SSP v.8

Customer:	SCOTT SERVICE	Sample Date:	2/28/2018
District:	GREAT BEND	Log Out Date:	2/28/2018
Area:	HAYS KANSAS	Sample ID:	Sample ID
Lease:	SCOTT LEASE	Analyst:	DANNY GROSS
Sample Point Name	WATER TANK	Chemical Used:	
Sales Rep:	DANNY GROSS	Comments:	

SCOTT SERVICE, SCOTT LEASE, WATER TANK

Field Data		Analysis of Sample											
		Anions:		mg/L		meq/L		Cations:		mg/L		meq/L	
Initial Temperature (°F):	140	Chloride (Cl <sup>-</sup> ):	47100	1326.8	Sodium (Na <sup>+</sup> ):	27619	1206.1						
Final Temperature (°F):	70	Sulfate (SO <sub>4</sub> <sup>2-</sup> ):	1750	36.4	Potassium (K <sup>+</sup> ):	0	0.0						
Initial Pressure (psi):	15	Borate (H <sub>3</sub> BO <sub>3</sub> ):	0.0	0.0	Magnesium (Mg <sup>2+</sup> ):	622	51.2						
Final Pressure (psi):	15	Fluoride (F <sup>-</sup> ):	0.0	0.0	Calcium (Ca <sup>2+</sup> ):	2228	111.2						
		Bromide (Br <sup>-</sup> ):	0.0	0.0	Strontium (Sr <sup>2+</sup> ):	0	0.0						
		Nitrite (NO <sub>2</sub> <sup>-</sup> ):	0.0	0.0	Barium (Ba <sup>2+</sup> ):	0.0	0.0						
pH:		Nitrate (NO <sub>3</sub> <sup>-</sup> ):	0.0	0.0	Iron (Fe <sup>2+</sup> ):	0.0	0.0						
pH at time of sampling:	7.0	Phosphate (PO <sub>4</sub> <sup>3-</sup> ):	0.0	0.0	Manganese (Mn <sup>2+</sup> ):	0.00	0.0						
pH at time of analysis:	7.0	Silica (SiO <sub>2</sub> ):	0.0	0.0	Lead (Pb <sup>2+</sup> ):	0.00	0.0						
pH used in Calcs:	7.0				Zinc (Zn <sup>2+</sup> ):	0.0	0.0						
Alkalinity by Titration:	mg/L meq/L												
Bicarbonate (HCO <sub>3</sub> <sup>-</sup> ):	231 3.8							Aluminum (Al <sup>3+</sup> ):	0.0	0.0			
Carbonate (CO <sub>3</sub> <sup>2-</sup> ):	0 0.0							Chromium (Cr <sup>3+</sup> ):	0.0	0.0			
Hydroxide (OH <sup>-</sup> ):	0 0.0							Cobalt (Co <sup>2+</sup> ):	0.0	0.0			
								Copper (Cu <sup>2+</sup> ):	0.0	0.0			
								Molybdenum (Mo <sup>2+</sup> ):	0.0	0.0			
aqueous CO <sub>2</sub> (ppm):	0.0	Organic Acids:	mg/L meq/L					Nickel (Ni <sup>2+</sup> ):	0.0	0.0			
aqueous H <sub>2</sub> S (ppm):	0.0	Formate:	0.0	0.0				Tin (Sn <sup>2+</sup> ):	0.0	0.0			
aqueous O <sub>2</sub> (ppb):	0.0	Acetate:	0.0	0.0				Titanium (Ti <sup>2+</sup> ):	0.0	0.0			
		Propionate:	0.0	0.0				Titanium (Ti <sup>2+</sup> ):	0.0	0.0			
		Butyrate:	0.0	0.0				Vanadium (V <sup>2+</sup> ):	0.0	0.0			
Calculated TDS (mg/L):	79550	Valerate:	0.0	0.0				Zirconium (Zr <sup>2+</sup> ):	0.0	0.0			
Density/Specific Gravity (g/cm <sup>3</sup> ):	1.0511							Total Hardness:	8130	N/A			
Measured Density/Specific Gravity	0												
Conductivity (µmhos):	0												
MCF/D:	0												
BOPD:	0												
BWPD:	0	Anion/Cation Ratio:		1.00									

Conditions		Barite (BaSO <sub>4</sub> )		Calcite (CaCO <sub>3</sub> )		Gypsum (CaSO <sub>4</sub> ·2H <sub>2</sub> O)		Anhydrite (CaSO <sub>4</sub> )	
Temp	Press.	Index	Amt (PTB)	Index	Amt (PTB)	Index	Amount	Index	Amt (PTB)
70°F	15 psi		0.000	0.66	27.046	-0.31	0.000	-0.56	0.000
78°F	15 psi		0.000	0.73	29.483	-0.31	0.000	-0.52	0.000
86°F	15 psi		0.000	0.80	31.772	-0.30	0.000	-0.49	0.000
93°F	15 psi		0.000	0.86	33.922	-0.30	0.000	-0.45	0.000
101°F	15 psi		0.000	0.93	35.941	-0.30	0.000	-0.42	0.000
109°F	15 psi		0.000	0.99	37.836	-0.29	0.000	-0.38	0.000
117°F	15 psi		0.000	1.05	39.614	-0.29	0.000	-0.34	0.000
124°F	15 psi		0.000	1.11	41.281	-0.28	0.000	-0.30	0.000
132°F	15 psi		0.000	1.17	42.844	-0.28	0.000	-0.26	0.000
140°F	15 psi		0.000	1.23	44.309	-0.27	0.000	-0.21	0.000

Conditions		Celestite (SrSO <sub>4</sub> )		Halite (NaCl)		Iron Sulfide (FeS)		Iron Carbonate (FeCO <sub>3</sub> )	
Temp	Press.	Index	Amt (PTB)	Index	Amt (PTB)	Index	Amt (PTB)	Index	Amt (PTB)
70°F	15 psi		0.000	-1.71	0.000	0	0.000		0.000
78°F	15 psi		0.000	-1.72	0.000	0	0.000		0.000
86°F	15 psi		0.000	-1.73	0.000	0	0.000		0.000
93°F	15 psi		0.000	-1.73	0.000	0	0.000		0.000
101°F	15 psi		0.000	-1.74	0.000	0	0.000		0.000
109°F	15 psi		0.000	-1.74	0.000	0	0.000		0.000
117°F	15 psi		0.000	-1.75	0.000	0	0.000		0.000
124°F	15 psi		0.000	-1.75	0.000	0	0.000		0.000
132°F	15 psi		0.000	-1.76	0.000	0	0.000		0.000
140°F	15 psi		0.000	-1.76	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; %CO<sub>2</sub> is not included in the calculations.



