

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	_____	_____	_____	_____	_____



HAYS LAB
Address
HAYS KANSAS, 67601

Report Date: 2/21/2018

Complete Water Analysis Report SSP v.8

Customer:	ISIS PETROLEUM	Sample Date:	2/21/2018
District:	GREAT BEND	Log Out Date:	2/21/2018
Area:	HAYS KANSAS	Sample ID:	Sample ID
Lease:	WOLF #1	Analyst:	ROD GOETZ
Sample Point Name	BLEEDER	Chemical Used:	
Sales Rep:	ROD GOETZ	Comments:	

ISIS PETROLEUM, WOLF #1, BLEEDER

Field Data		Analysis of Sample											
		Anions:		mg/L		meq/L		Cations:		mg/L		meq/L	
Initial Temperature (°F):	140	Chloride (Cl):	61600	1735.2	Sodium (Na ⁺):	33003	1441.2						
Final Temperature (°F):	70	Sulfate (SO ₄ ²⁻):	11.25	0.2	Potassium (K ⁺):	0	0.0						
Initial Pressure (psi):	15	Borate (H ₃ BO ₃):	0.0	0.0	Magnesium (Mg ²⁺):	1083	89.1						
Final Pressure (psi):	15	Fluoride (F):	0.0	0.0	Calcium (Ca ²⁺):	4236	211.4						
pH:		Bromide (Br):	0.0	0.0	Strontium (Sr ²⁺):	0	0.0						
pH at time of sampling:	6.1	Nitrite (NO ₂):	0.0	0.0	Barium (Ba ²⁺):	0.0	0.0						
pH at time of analysis:	6.1	Nitrate (NO ₃):	0.0	0.0	Iron (Fe ²⁺):	0.0	0.0						
pH used in Calcs:	6.1	Phosphate (PO ₄ ³⁻):	0.0	0.0	Manganese (Mn ²⁺):	0.00	0.0						
Alkalinity by Titration:		Silica (SiO ₂):	0.0	0.0	Lead (Pb ²⁺):	0.00	0.0						
					Zinc (Zn ²⁺):	0.0	0.0						
Bicarbonate (HCO ₃ ⁻):	366	Organic Acids:		mg/L	meq/L	Aluminum (Al ³⁺):	0.0	0.0					
Carbonate (CO ₃ ²⁻):	0	Formate:	0.0	0.0	Molybdenum (Mo ²⁺):	0.0	0.0						
Hydroxide (OH ⁻):	0	Acetate:	0.0	0.0	Nickel (Ni ²⁺):	0.0	0.0						
aqueous CO ₂ (ppm):	0.0	Propionate:	0.0	0.0	Tin (Sn ²⁺):	0.0	0.0						
aqueous H ₂ S (ppm):	0.0	Butyrate:	0.0	0.0	Titanium (Ti ²⁺):	0.0	0.0						
aqueous O ₂ (ppb):	0.0	Valerate:	0.0	0.0	Vanadium (V ²⁺):	0.0	0.0						
Calculated TDS (mg/L):	100300	Anion/Cation Ratio:		1.00		Zirconium (Zr ²⁺):	0.0	0.0					
Density/Specific Gravity (g/cm ³):	1.0378					Total Hardness:	15050	N/A					
Measured Density/Specific Gravity	0												
Conductivity (µmhos):	0												
MCF/D:	0												
BOPD:	0												
BWPD:	0												

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)
100°F	100 psi	0.000	0.000	0.97	26.762	-1.19	0.000	-1.32	0.000
100°F	100 psi	0.000	0.000	0.97	26.762	-1.19	0.000	-1.32	0.000
100°F	100 psi	0.000	0.000	0.97	26.762	-1.19	0.000	-1.32	0.000
100°F	100 psi	0.000	0.000	0.97	26.762	-1.19	0.000	-1.32	0.000
100°F	100 psi	0.000	0.000	0.97	26.762	-1.19	0.000	-1.32	0.000
100°F	100 psi	0.000	0.000	0.97	26.762	-1.19	0.000	-1.32	0.000
100°F	100 psi	0.000	0.000	0.97	26.762	-1.19	0.000	-1.32	0.000
100°F	100 psi	0.000	0.000	0.97	26.762	-1.19	0.000	-1.32	0.000
100°F	100 psi	0.000	0.000	0.97	26.762	-1.19	0.000	-1.32	0.000
100°F	100 psi	0.000	0.000	0.97	26.762	-1.19	0.000	-1.32	0.000
100°F	100 psi	0.000	0.000	0.97	26.762	-1.19	0.000	-1.32	0.000
100°F	100 psi	0.000	0.000	0.97	26.762	-1.19	0.000	-1.32	0.000
100°F	100 psi	0.000	0.000	0.97	26.762	-1.19	0.000	-1.32	0.000
100°F	100 psi	0.000	0.000	0.97	26.762	-1.19	0.000	-1.32	0.000
100°F	100 psi	0.000	0.000	0.97	26.762	-1.19	0.000	-1.32	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)
100°F	100 psi	0.000	0.000	0.000	0.000	0	0.000	0.000	0.000
100°F	100 psi	0.000	0.000	0.000	0.000	0	0.000	0.000	0.000
100°F	100 psi	0.000	0.000	0.000	0.000	0	0.000	0.000	0.000
100°F	100 psi	0.000	0.000	0.000	0.000	0	0.000	0.000	0.000
100°F	100 psi	0.000	0.000	0.000	0.000	0	0.000	0.000	0.000
100°F	100 psi	0.000	0.000	0.000	0.000	0	0.000	0.000	0.000
100°F	100 psi	0.000	0.000	0.000	0.000	0	0.000	0.000	0.000
100°F	100 psi	0.000	0.000	0.000	0.000	0	0.000	0.000	0.000
100°F	100 psi	0.000	0.000	0.000	0.000	0	0.000	0.000	0.000
100°F	100 psi	0.000	0.000	0.000	0.000	0	0.000	0.000	0.000
100°F	100 psi	0.000	0.000	0.000	0.000	0	0.000	0.000	0.000
100°F	100 psi	0.000	0.000	0.000	0.000	0	0.000	0.000	0.000
100°F	100 psi	0.000	0.000	0.000	0.000	0	0.000	0.000	0.000
100°F	100 psi	0.000	0.000	0.000	0.000	0	0.000	0.000	0.000
100°F	100 psi	0.000	0.000	0.000	0.000	0	0.000	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.

