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#### 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 #				API No.:									
							City: _		State: Zip:	+	<u> </u>	Sec TwpS.	R EW
							Contact Person:				(2/2/2/2) feet from N / S Line of Section		
							Phone	e: ()				feet from E /	W Line of Section
Lease Name:				County:									
Well Number:													
: : :	ection Fluid: Type ( <i>Pick one</i> ): Source: Quality: Tota ( <i>Attach water analys</i> :		<ul> <li>Treated Brine</li> <li>Other (Attach list)</li> <li>mg/l Specific Gra</li> </ul>	Untreated Brine	U Water/Brine								
1 1	Maximum Authorized	I Injection Pressure: I Injection Rate: anced Recovery Injection Wells	barrels per c	lay									
III.	Month:	Total Fluid Injected BBL	Maximum Fluid Pressure	Total Gas Injected MCF	Maximum Gas Pressure	# Days of Injection							
	January												
	February												
	March												
	April												
	Мау												
	June												
	July												
	August			· ·									
	September												
	October												
	November												
	December												

### Submitted Electronically

TOTAL

## **NALCO** Champion

An Ecolab Company

### **Complete Water Analysis Report**

Customer: GREAT PLAINS ENERGY INC Equipment: Injection Plant Collection Date: 10/08/2019 Sample Point: Bleeder Receive Date: 10/18/2019 Region: Swede Hollow Unit Location: Decatur, KS Sample ID: AN86589 Report Date: 10/25/2019 Location Code: 420714 System: Injection Acct Rep Email: Steve.Eckhardt@ecolab.com Field Analysis Bicarbonate 468 mg/L Dissolved CO2 238 mg/L **Dissolved H2S** 200.6 mg/L **81** ° F Pressure Surface 120 psi Temperature pH of Water 7.0 **Sample Analysis** Conductivity (Calculated) 138770 µS - cm3 Ionic Strength 1.57 Resistivity 0.072 ohms - m Total Dissolved Solids 88813.48 mg/L Specific Gravity 1.055 Cations 0.695 mg/L 0.075 mg/L Barium 8.079 mg/L Iron Manganese Strontium 32.45 mg/L Calcium 1144 mg/L 417.5 mg/L Magnesium Sodium 32896.68 mg/L Anions Chloride 53592 mg/L Sulfate 254 mg/L Scale Type Anhydrite CaSO4 PTB N/A Anhydrite CaSO4 SI -1.74 Barite BaSO4 PTB Barite BaSO4 SI 4.0 0.79 Calcite CaCO3 PTB Calcite CaCO3 SI N/A -0.35 **Celestite SrSO4 PTB** N/A Celestite SrSO4 SI -1.23 Gypsum CaSO4 PTB N/A Gypsum CaSO4 SI -1.56 Hemihydrate CaSO4 PTB N/A Hemihydrate CaSO4 SI -1.57 Comments

#### Scaling predictions calculated using Oddo-Tomson model

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