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 # 33629
Name: Great Plains Energy, Inc.
Address 1: 6121 S 58TH ST, STE B
Address 2:
City: LINCOLN State: NE Zip: 68516 + 3669
Contact Person: Matthew Mondero
Phone: (402) 443-6125
Lease Name: SAUVAGE
Well Number: 9

API No.: 15-039-21080-00-01
Permit No: E31992.6
Reporting Year: 2024
(January 1 to December 31)

NW - SE - SW - NE Sec. 35 Twp. 4 S. R. 30 ☐ E ☑ W
(Q/Q/Q/Q)
3001 feet from ☐ N / ☑ S Line of Section
1685 feet from ☑ E / ☐ W Line of Section
County: Decatur

I. Injection Fluid:

Type *(Pick one)*: ☐ Fresh Water ☐ Treated Brine ☑ Untreated Brine ☐ Water/Brine
Source: ☑ Produced Water ☐ Other *(Attach list)*
Quality: Total Dissolved Solids: 91603 mg/l Specific Gravity: 1.052 Additives:
(Attach water analysis, if available)

II. Well Data:

Maximum Authorized Injection Pressure: 1500 psi Injection Zone: LANSING-KANSAS CITY,TORONTO
Maximum Authorized Injection Rate: 1000 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	7173	30			31
February	7859	30			28
March	7014	30			28
April	8387	30			30
May	8073	30			30
June	9415	30			30
July	8869	30			31
August	9160	30			30
September	4872	30			30
October	8123	30			31
November	7021	30			30
December	10195	30			31
TOTAL	96161		0		

Submitted Electronically

Complete Water Analysis

Customer:	**GREAT PLAINS ENERGY INC**	Equipment Description:	**Swede Hollow Injection**	Collection Date:	**02/11/2022**
Geographic Region:	**Kansas**	Sample Point:	**Injection**	Receive Date:	**02/22/2022**
Geographic Location:	**Decatur County**	Sample ID:	**AT02253**	Report Date:	**02/25/2022**
System Description:	**Production System**	Account Rep:	**Steve.Eckhardt@championx.com**	Location Code:	**470211**

Field Analysis

Analysis	Result		Analysis Method
Bicarbonate	**459**	mg/L	Titration
Dissolved CO2	**220**	mg/L	Titration
Dissolved H2S	**132.6**	mg/L	Titration
Pressure Surface	**10**	psi	
Temperature	**76**	° F	
pH of Water	**6.9**		Meter

Sample Analysis

Analysis	Result		Analysis Method
Specific Gravity	**1.052**		Densitometer
Ionic Strength	**1.63**	mol/L	Calculation
Total Dissolved Solids	**91603.46**	mg/L	Calculation

Cations - Analyzed By ICP

Iron	**0.320**	mg/L	Measured Sodium	**33410**	mg/L
Manganese	**0.171**	mg/L			
Barium	**11.97**	mg/L			
Strontium	**402.4**	mg/L			
Calcium	**1254**	mg/L			
Magnesium	**540.6**	mg/L			
Sodium	**33410.00**	mg/L			

Anions - Analyzed By IC

Chloride	**55207**	mg/L
Sulfate	**318**	mg/L

Scale Type

Anhydrite CaSO4 PTB	N/A	**Anhydrite CaSO4 SI**	-1.63
Barite BaSO4 PTB	6.5	**Barite BaSO4 SI**	1.08
Calcite CaCO3 PTB	N/A	**Calcite CaCO3 SI**	-0.48
Celestite SrSO4 PTB	N/A	**Celestite SrSO4 SI**	-0.05
Gypsum CaSO4 PTB	N/A	**Gypsum CaSO4 SI**	-1.42
Hemihydrate CaSO4 PTB	N/A	**Hemihydrate CaSO4 SI**	-1.43

Comments

Scaling predictions calculated using Oddo-Tomson model

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