KOLAR Document ID: 1629994

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 B31
Address 2:
City: LINCOLN State: NE Zip: 68516 + 3669
Contact Person: Matthew Mondero
Phone: (402) 443-6125
Lease Name: FLAX
Well Number: 1

API No.: 15-063-20783-00-02
Permit No: D32390.0
Reporting Year: 2021
(January 1 to December 31)

____ - SE - NW - SE Sec. 24 Twp. 15 S. R. 26 ☐ E ☑ W
(Q/Q/Q/Q)
1656 feet from ☐ N / ☑ S Line of Section
1673 feet from ☑ E / ☐ W Line of Section
County: Gove

I. Injection Fluid:

Type *(Pick one)*: ☐ Fresh Water ☐ Treated Brine ☑ Untreated Brine ☐ Water/Brine
Source: ☑ Produced Water ☐ Other *(Attach list)*
Quality: Total Dissolved Solids: 42343 mg/l Specific Gravity: 1.030 Additives:
(Attach water analysis, if available)

II. Well Data:

Maximum Authorized Injection Pressure: 0 psi Injection Zone: CEDAR HILLS
Maximum Authorized Injection Rate: 500 barrels per day
Total Number of Enhanced Recovery Injection Wells Covered by this Permit: 1 *(Include TA's)*

III.

Month:	Total Fluid Injected BBL	Maximum Fluid Pressure	Total Gas Injected MCF	Maximum Gas Pressure	# Days of Injection
January	2170	0	0	0	31
February	300	0	0	0	10
March	2170	0	0	0	31
April	2100	0	0	0	30
May	4000	0	0	0	31
June	3000	0	0	0	30
July	2170	0	0	0	31
August	2170	0	0	0	31
September	2100	0	0	0	30
October	2170	0	0	0	31
November	2100	0	0	0	30
December	2170	0	0	0	31
TOTAL	26620		0		

Submitted Electronically

Complete Water Analysis

Customer:	**GREAT PLAINS ENERGY INC**	Equipment Description:	**Flax J SWD**	Collection Date:	**02/22/2022**
Geographic Region:	**Kansas**	Sample Point:	**Water Tank**	Receive Date:	**02/23/2022**
Geographic Location:	**Trego County**	Sample ID:	**AT00604**	Report Date:	**02/24/2022**
System Description:	**Disposal System**	Account Rep:	**Michael.Walters@championx.com**	Location Code:	**402615**

Field Analysis

Analysis	Result		Analysis Method
Bicarbonate	**122.00**	mg/L	Titration
Dissolved CO2	**246.00**	mg/L	Titration
Dissolved H2S	**68.00**	mg/L	Titration
Pressure Surface	**25**	psi	
Temperature	**100**	° F	
pH of Water	**7.50**		Meter

Sample Analysis

Analysis	Result		Analysis Method
Specific Gravity	**1.030**		Densitometer
Ionic Strength	**0.79**	mol/L	Calculation
Total Dissolved Solids	**42343.73**	mg/L	Calculation

Cations - Analyzed By ICP

Iron	**0.116**	mg/L	Measured Sodium	**14576**	mg/L
Manganese	**0.125**	mg/L			
Barium	**0.210**	mg/L			
Strontium	**38.48**	mg/L			
Calcium	**1268**	mg/L			
Magnesium	**355.8**	mg/L			
Sodium	**14576.00**	mg/L			

Anions - Analyzed By IC

Chloride	**24058**	mg/L
Sulfate	**1925**	mg/L

Scale Type

Anhydrite CaSO4 PTB	N/A	**Anhydrite CaSO4 SI**	-0.64
Barite BaSO4 PTB	0.1	**Barite BaSO4 SI**	0.26
Calcite CaCO3 PTB	4.4	**Calcite CaCO3 SI**	0.06
Celestite SrSO4 PTB	N/A	**Celestite SrSO4 SI**	-0.09
Gypsum CaSO4 PTB	N/A	**Gypsum CaSO4 SI**	-0.50
Hemihydrate CaSO4 PTB	N/A	**Hemihydrate CaSO4 SI**	-0.46

Comments

Scaling predictions calculated using Oddo-Tomson model