KOLAR Document ID: 1562960

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: FLAX
Well Number: 1

API No.: 15-063-20783-00-02
Permit No: D32390.0
Reporting Year: 2020
(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: 35897.11 mg/l Specific Gravity: 1.023 Additives:
(Attach water analysis, if available)

II. Well Data:

Maximum Authorized Injection Pressure: 0 psi Injection Zone: Baker-Hughes
Maximum Authorized Injection Rate: 500 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	2622	0	0	0	31
February	2452	0	0	0	28
March	2460	0	0	0	31
April	0	0	0	0	0
May	0	0	0	0	0
June	2646	0	0	0	30
July	2570	0	0	0	31
August	1725	0	0	0	31
September	1690	0	0	0	30
October	1750	0	0	0	31
November	1685	0	0	0	30
December	1734	0	0	0	31
TOTAL	21334		0		

Submitted Electronically

NALCO Champion
An Ecolab Company

Complete Water Analysis Report

Customer: **GREAT PLAINS ENERGY INC**
Region: **Kansas(KS)**
Location: **Trego County, KS**
System: **Disposal System**

Equipment: **Flax J SWD**
Sample Point: **Water Tank**
Sample ID: **AO55144**
Acct Rep Email: **Michael.Walters@ecolab.com**

Collection Date: **02/21/2020**
Receive Date: **02/24/2020**
Report Date: **02/25/2020**
Location Code: **402615**

Field Analysis

Bicarbonate	**303** mg/L	Dissolved CO2	**246** mg/L	Dissolved H2S	**20** mg/L
Pressure Surface	**<.25** psi	Temperature	**45** ° F	pH of Water	**7.0**

Sample Analysis

Conductivity (Calculated)	**56089** µS - cm3	Ionic Strength	**0.69**	Resistivity	**0.178** ohms - m
Specific Gravity	**1.023**	Total Dissolved Solids	**35897.11** mg/L		

Cations

Iron	**0.204** mg/L	Manganese	**0.096** mg/L	Barium	**0.076** mg/L
Strontium	**47.03** mg/L	Calcium	**1544** mg/L	Magnesium	**410.7** mg/L
Sodium	**10600.00** mg/L				

Anions

Chloride	**20422** mg/L	Sulfate	**2570** mg/L

Scale Type

Anhydrite CaSO4 PTB	N/A	**Anhydrite CaSO4 SI**	-0.79
Barite BaSO4 PTB	0.0	**Barite BaSO4 SI**	0.27
Calcite CaCO3 PTB	N/A	**Calcite CaCO3 SI**	-0.47
Celestite SrSO4 PTB	6.6	**Celestite SrSO4 SI**	0.10
Gypsum CaSO4 PTB	N/A	**Gypsum CaSO4 SI**	-0.28
Hemihydrate CaSO4 PTB	N/A	**Hemihydrate CaSO4 SI**	-0.17

Comments

Scaling predictions calculated using Oddo-Tomson model