

**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	_____	_____	_____	_____	_____

Submitted Electronically

Water Analysis Report

Attention: **Michael.Walters@CHAMP-TECH.com**

Location Code: **337050**

Sample ID: **AI14314**

Login Batch: **170221100609**

Collection Date: **02/15/2017**

Receive Date: **02/21/2017**

Report Date: **02/22/2017**

Customer: **Great Plains Energy Inc (1505558)**

Region: **Kansas**

Location: **Trego Co., KS**

System: **Disposal System**

Equipment: **Deines SWD**

Lab ID: **ABU-0055**

Sample Point: **Wellhead**

Analyses	Result	Unit
Dissolved CO2	220	mg/L
Dissolved H2S	15	mg/L
pH	6.9	
Pressure	5	psi
Temperature	95	° F

Cations	Result	Unit
Iron	0.818	mg/L
Manganese	0.036	mg/L
Barium	0.156	mg/L
Strontium	39.56	mg/L
Calcium	1219	mg/L
Magnesium	342.9	mg/L
Sodium	10394.12	mg/L

Analyses	Result	Unit
Bicarbonate	356	mg/L
Conductivity (Calculated)	49820	µS - cm3
Ionic Strength	0.61	
Resistivity	0.201	ohms - m
Specific Gravity	1.018	
Total Dissolved Solids	31885.59	mg/L

Anions	Result	Unit
Chloride	17604	mg/L
Sulfate	1929	mg/L

Scale Type	Result
Anhydrite CaSO4 SI	-0.66
Barite BaSO4 PTB	0.0
Barite BaSO4 SI	0.27
Calcite CaCO3 SI	-0.03
Celestite SrSO4 SI	0.00
Gypsum CaSO4 SI	-0.47
Hemihydrate CaSO4 SI	-0.41
Saturation Index Calculation (Tomson-Oddo Model)	

Comments

This document contains the confidential and/or proprietary information of NALCO Champion. The recipient agrees to maintain the confidentiality of the terms of this document, and shall not reproduce it by any means, disclose the contents of it to any third party, or use the contents of it for any purpose other than the purpose for which it was intended by NALCO Champion.