KOLAR Document ID: 1450872

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 # 34055
Name: H & M Petroleum Corporation
Address 1: 6121 S 58TH ST, STE B
Address 2:
City: LINCOLN State: NE Zip: 68516 + 2487
Contact Person: Matthew Mondero
Phone: (402) 9044092
Lease Name: FRENCH
Well Number: 1

API No.: 15-101-21385-00-00
Permit No: D25077.0
Reporting Year: 2018
(January 1 to December 31)

____ - SW - SW - SW Sec. 31 Twp. 17 S. R. 30 ☐ E ☑ W
(Q/Q/Q/Q)
341 feet from ☐ N / ☑ S Line of Section
4790 feet from ☑ E / ☐ W Line of Section
County: Lane

I. Injection Fluid:

Type *(Pick one)*: ☐ Fresh Water ☐ Treated Brine ☑ Untreated Brine ☐ Water/Brine
Source: ☑ Produced Water ☐ Other *(Attach list)*
Quality: Total Dissolved Solids: 78053 mg/l Specific Gravity: 1.049 Additives: N/A
(Attach water analysis, if available)

II. Well Data:

Maximum Authorized Injection Pressure: 0 psi Injection Zone: CEDAR HILLS
Maximum Authorized Injection Rate: 800 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	2212	0	0	0	10
February	6720	0	0	0	28
March	7440	0	0	0	31
April	7200	0	0	0	30
May	7440	0	0	0	31
June	7200	0	0	0	30
July	7440	0	0	0	31
August	7440	0	0	0	31
September	7200	0	0	0	30
October	1200	0	0	0	5
November	600	0	0	0	10
December	60	0	0	0	1
TOTAL	62152		0		

Submitted Electronically

NALCO Champion
An Ecolab Company

Complete Water Analysis Report

Customer: **H&M Petroleum Corporation (150837**
Region: **Not Available**
Location: **Scott County, KS**
System: **Production System**

Equipment: **Well French #1 SWD**
Sample Point: **Water Tank**
Sample ID: **AM48772**
Acct Rep Email: **Michael.Walters@ecolab.com**

Collection Date: **02/18/2019**
Receive Date: **02/21/2019**
Report Date: **02/22/2019**
Location Code: **294906**

Field Analysis

Bicarbonate	**303** mg/L	Dissolved CO2	**246** mg/L	Dissolved H2S	**25** mg/L
Pressure Surface	**<.25** psi	Temperature	**51** ° F	pH of Water	**7.5**

Sample Analysis

Conductivity (Calculated)	**121958** µS - cm3	Ionic Strength	**1.42**	Resistivity	**0.082** ohms - m
Specific Gravity	**1.049**	Total Dissolved Solids	**78053.08** mg/L		

Cations

Iron	**0.201** mg/L	Manganese	**0.051** mg/L	Barium	**0.065** mg/L
Strontium	**36.13** mg/L	Calcium	**1249** mg/L	Magnesium	**414.6** mg/L
Sodium	**28152.03** mg/L				

Anions

Chloride	**43408** mg/L	Sulfate	**4490** mg/L

Scale Type

Anhydrite CaSO4 PTB	N/A	**Anhydrite CaSO4 SI**	-0.64
Barite BaSO4 PTB	0.0	**Barite BaSO4 SI**	0.14
Calcite CaCO3 PTB	N/A	**Calcite CaCO3 SI**	-0.27
Celestite SrSO4 PTB	3.2	**Celestite SrSO4 SI**	0.06
Gypsum CaSO4 PTB	N/A	**Gypsum CaSO4 SI**	-0.25
Hemihydrate CaSO4 PTB	N/A	**Hemihydrate CaSO4 SI**	-0.22

Comments

Tank

Scaling predictions calculated using Oddo-Tomson model