

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 # _____
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: **Richard.Myers@CHAMP-TECH.com**

Location Code: **29075**

Sample ID: **AK03693**

Login Batch: **2018-01-12-001-LP1**

Collection Date: **01/09/2018**

Receive Date: **01/12/2018**

Report Date: **01/12/2018**

Customer: **Eagle Petroleum Inc. (1507789)**

Region: **Kansas(KS)**

Location: **Barton, KS**

System: **Production System**

Equipment: **Well Southern B**

Lab ID: **ABU-0055**

Sample Point: **Wellhead**

Analyses	Result	Unit
Dissolved CO2	264	mg/L
Dissolved H2S	60	mg/L
pH	7.2	
Pressure	25	psi
Temperature	74	° F

Analyses	Result	Unit
Bicarbonate	332	mg/L
Conductivity (Calculated)	33656	µS - cm3
Ionic Strength	0.41	
Resistivity	0.297	ohms - m
Specific Gravity	1.010	
Total Dissolved Solids	21541.96	mg/L

Cations	Result	Unit
Iron	1.799	mg/L
Manganese	0.055	mg/L
Barium	0.081	mg/L
Strontium	34.51	mg/L
Calcium	828.9	mg/L
Magnesium	271.8	mg/L
Sodium	6942.81	mg/L

Anions	Result	Unit
Chloride	11922	mg/L
Sulfate	1208	mg/L

Scale Type	Result
Anhydrite CaSO4 SI	-1.09
Barite BaSO4 PTB	0.0
Barite BaSO4 SI	0.09
Calcite CaCO3 PTB	7.4
Calcite CaCO3 SI	0.04
Celestite SrSO4 SI	-0.15
Gypsum CaSO4 SI	-0.75
Hemihydrate CaSO4 SI	-0.63

Saturation Index Calculation (Tomson-Oddo Model)

Water Analysis Report

Attention: **Richard.Myers@CHAMP-TECH.com**

Location Code: **321312**

Sample ID: **AK03694**

Login Batch: **2018-01-12-001-LP1**

Collection Date: **01/09/2018**

Receive Date: **01/12/2018**

Report Date: **01/12/2018**

Customer: **Eagle Petroleum Inc. (1507789)**

Region: **Kansas(KS)**

Location: **Stafford, KS**

System: **Production System**

Equipment: **Well Harter B-6**

Lab ID: **ABU-0055**

Sample Point: **Wellhead**

Analyses	Result	Unit
Dissolved CO2	220	mg/L
Dissolved H2S	75	mg/L
pH	7.5	
Pressure	25	psi
Temperature	79	° F

Analyses	Result	Unit
Bicarbonate	205	mg/L
Conductivity (Calculated)	45165	µS - cm3
Ionic Strength	0.56	
Resistivity	0.221	ohms - m
Specific Gravity	1.016	
Total Dissolved Solids	28917.29	mg/L

Cations	Result	Unit
Iron	11.34	mg/L
Manganese	0.259	mg/L
Barium	0.043	mg/L
Strontium	30.40	mg/L
Calcium	1291	mg/L
Magnesium	365.9	mg/L
Sodium	9077.35	mg/L

Anions	Result	Unit
Chloride	15444	mg/L
Sulfate	2492	mg/L

Scale Type	Result
Anhydrite CaSO4 SI	-0.63
Barite BaSO4 SI	-0.07
Calcite CaCO3 PTB	26.7
Calcite CaCO3 SI	0.23
Celestite SrSO4 SI	-0.01
Gypsum CaSO4 SI	-0.33
Hemihydrate CaSO4 SI	-0.25

Saturation Index Calculation (Tomson-Oddo Model)

Water Analysis Report

Attention: **Richard.Myers@CHAMP-TECH.com**

Location Code: **321314**

Sample ID: **AK03695**

Login Batch: **2018-01-12-001-LP1**

Collection Date: **01/10/2018**

Receive Date: **01/12/2018**

Report Date: **01/12/2018**

Customer: **Eagle Petroleum Inc. (1507789)**

Region: **Kansas(KS)**

Location: **Barton Co, KS**

System: **Production System**

Equipment: **Well Knop C-1**

Lab ID: **ABU-0055**

Sample Point: **Wellhead**

Analyses	Result	Unit
Dissolved CO2	211	mg/L
Dissolved H2S	55	mg/L
pH	7.2	
Pressure	25	psi
Temperature	72	° F

Analyses	Result	Unit
Bicarbonate	307	mg/L
Conductivity (Calculated)	33805	µS - cm3
Ionic Strength	0.42	
Resistivity	0.296	ohms - m
Specific Gravity	1.010	
Total Dissolved Solids	21635.36	mg/L

Cations	Result	Unit
Iron	0.094	mg/L
Manganese	0.048	mg/L
Barium	0.085	mg/L
Strontium	39.53	mg/L
Calcium	988.9	mg/L
Magnesium	320.8	mg/L
Sodium	6709.90	mg/L

Anions	Result	Unit
Chloride	11848	mg/L
Sulfate	1421	mg/L

Scale Type	Result
Anhydrite CaSO4 SI	-0.98
Barite BaSO4 PTB	0.0
Barite BaSO4 SI	0.16
Calcite CaCO3 PTB	8.3
Calcite CaCO3 SI	0.05
Celestite SrSO4 SI	-0.05
Gypsum CaSO4 SI	-0.62
Hemihydrate CaSO4 SI	-0.50

Saturation Index Calculation (Tomson-Oddo Model)

Water Analysis Report

Attention: **Richard.Myers@CHAMP-TECH.com**

Location Code: **29070**

Sample ID: **AK03696**

Login Batch: **2018-01-12-001-LP1**

Collection Date: **01/10/2018**

Receive Date: **01/12/2018**

Report Date: **01/12/2018**

Customer: **Eagle Petroleum Inc. (1507789)**

Region: **Kansas(KS)**

Location: **Barton, KS**

System: **Production System**

Equipment: **Well Augrim**

Lab ID: **ABU-0055**

Sample Point: **Wellhead**

Analyses	Result	Unit
Dissolved CO2	255	mg/L
Dissolved H2S	60	mg/L
pH	7.5	
Pressure	25	psi
Temperature	71	° F

Analyses	Result	Unit
Bicarbonate	337	mg/L
Conductivity (Calculated)	37183	µS - cm3
Ionic Strength	0.47	
Resistivity	0.269	ohms - m
Specific Gravity	1.013	
Total Dissolved Solids	23798.23	mg/L

Cations	Result	Unit
Iron	1.323	mg/L
Manganese	0.054	mg/L
Barium	0.024	mg/L
Strontium	27.44	mg/L
Calcium	1185	mg/L
Magnesium	316.8	mg/L
Sodium	7274.59	mg/L

Anions	Result	Unit
Chloride	12449	mg/L
Sulfate	2207	mg/L

Scale Type	Result
Anhydrite CaSO4 SI	-0.75
Barite BaSO4 SI	-0.26
Calcite CaCO3 PTB	68.0
Calcite CaCO3 SI	0.41
Celestite SrSO4 SI	-0.06
Gypsum CaSO4 SI	-0.39
Hemihydrate CaSO4 SI	-0.27

Saturation Index Calculation (Tomson-Oddo Model)

Comments

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