

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



Complete Water Analysis Report

Customer: SLAWSON EXPLORATION CO INC
Region: Kansas
Location: Thomas County
System: Production System

Equipment: Epard 1-27
Sample Point: Wellhead
Sample ID: AR66781
Acct Rep Email: jevon.benisch@championx.com

Collection Date: 07/13/2021
Receive Date: 07/15/2021
Report Date: 07/16/2021
Location Code: 418662

Field Analysis

Bicarbonate	439.20 mg/L	Dissolved CO2	132.00 mg/L	Dissolved H2S	68.00 mg/L
Pressure Surface	20 psi	Temperature	73 °F	pH of Water	9.00

Sample Analysis

Ionic Strength	1.23 mol/L	Specific Gravity	1.050	Total Dissolved Solids	71127.45 mg/L
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Cations

Iron	0.480 mg/L	Manganese	0.050 mg/L	Barium	0.212 mg/L
Strontium	37.81 mg/L	Calcium	428.5 mg/L	Magnesium	179.2 mg/L
Sodium	23840.00 mg/L				

Anions

Chloride	43632 mg/L	Sulfate	2570 mg/L
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Scale Type

Anhydrite CaSO4 PTB	N/A	Anhydrite CaSO4 SI	-1.20
Barite BaSO4 PTB	0.1	Barite BaSO4 SI	0.32
Calcite CaCO3 PTB	163.9	Calcite CaCO3 SI	1.16
Celestite SrSO4 PTB	N/A	Celestite SrSO4 SI	-0.12
Gypsum CaSO4 PTB	N/A	Gypsum CaSO4 SI	-0.93
Hemihydrate CaSO4 PTB	N/A	Hemihydrate CaSO4 SI	-0.92

Comments

H2O Good

Scaling predictions calculated using Oddo-Tomson model

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Complete Water Analysis Report

Customer: SLAWSON EXPLORATION CO INC
Region: Kansas
Location: Thomas County
System: Production System

Equipment: Hills Trust I 1
Sample Point: Wellhead
Sample ID: AR66780
Acct Rep Email: jevon.benisch@championx.com

Collection Date: 07/13/2021
Receive Date: 07/15/2021
Report Date: 07/16/2021
Location Code: 30911

Field Analysis

Bicarbonate	878.14 mg/L	Dissolved CO2	176.00 mg/L	Dissolved H2S	612.00 mg/L
Pressure Surface	20 psi	Temperature	75 ° F	pH of Water	10.00

Sample Analysis

Ionic Strength	0.99 mol/L	Specific Gravity	1.047	Total Dissolved Solids	59726.56 mg/L
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Cations

Iron	7.869 mg/L	Manganese	0.698 mg/L	Barium	0.381 mg/L
Strontium	76.37 mg/L	Calcium	750.0 mg/L	Magnesium	348.1 mg/L
Sodium	11250.00 mg/L				

Anions

Chloride	44602 mg/L	Sulfate	1813 mg/L
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Scale Type

Anhydrite CaSO4 PTB	N/A	Anhydrite CaSO4 SI	-1.10
Barite BaSO4 PTB	0.1	Barite BaSO4 SI	0.41
Calcite CaCO3 PTB	463.7	Calcite CaCO3 SI	2.72
Celestite SrSO4 PTB	3.4	Celestite SrSO4 SI	0.03
Gypsum CaSO4 PTB	N/A	Gypsum CaSO4 SI	-0.85
Hemihydrate CaSO4 PTB	N/A	Hemihydrate CaSO4 SI	-0.84

Comments

H2O Poor

Scaling predictions calculated using Oddo-Tomson model

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Complete Water Analysis Report

Customer: SLAWSON EXPLORATION CO INC
Region: Kansas
Location: Thomas County
System: Production System

Equipment: Hills Trust I 2
Sample Point: Wellhead
Sample ID: AR66777
Acct Rep Email: jevon.benisch@championx.com

Collection Date: 07/13/2021
Receive Date: 07/15/2021
Report Date: 07/16/2021
Location Code: 30912

Field Analysis

Bicarbonate	351.36 mg/L	Dissolved CO2	132.00 mg/L	Dissolved H2S	5.00 mg/L
Pressure Surface	65 psi	Temperature	82 ° F	pH of Water	9.00

Sample Analysis

Ionic Strength	1.12 mol/L	Specific Gravity	1.045	Total Dissolved Solids	64645.33 mg/L
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Cations

Iron	10.47 mg/L	Manganese	1.301 mg/L	Barium	0.304 mg/L
Strontium	42.09 mg/L	Calcium	689.7 mg/L	Magnesium	279.1 mg/L
Sodium	20940.00 mg/L				

Anions

Chloride	40663 mg/L	Sulfate	1668 mg/L
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Scale Type

Anhydrite CaSO4 PTB	N/A	Anhydrite CaSO4 SI	-1.12
Barite BaSO4 PTB	0.1	Barite BaSO4 SI	0.27
Calcite CaCO3 PTB	154.5	Calcite CaCO3 SI	1.39
Celestite SrSO4 PTB	N/A	Celestite SrSO4 SI	-0.24
Gypsum CaSO4 PTB	N/A	Gypsum CaSO4 SI	-0.90
Hemihydrate CaSO4 PTB	N/A	Hemihydrate CaSO4 SI	-0.89

Comments

H2O Good

Scaling predictions calculated using Oddo-Tomson model

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Complete Water Analysis Report

Customer: SLAWSON EXPLORATION CO INC
Region: Kansas
Location: Thomas County
System: Production System

Equipment: Hills Trust J 5-26
Sample Point: Wellhead
Sample ID: AR66778
Acct Rep Email: jevon.benisch@championx.com

Collection Date: 07/13/2021
Receive Date: 07/16/2021
Report Date: 07/16/2021
Location Code: 30914

Field Analysis

Bicarbonate	732.00 mg/L	Dissolved CO2	246.40 mg/L	Dissolved H2S	680.00 mg/L
Pressure Surface	40 psi	Temperature	75 ° F	pH of Water	9.00

Sample Analysis

Ionic Strength	1.30 mol/L	Specific Gravity	1.051	Total Dissolved Solids	74962.8 mg/L
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Cations

Iron	2.200 mg/L	Manganese	0.221 mg/L	Barium	0.161 mg/L
Strontium	29.72 mg/L	Calcium	643.3 mg/L	Magnesium	247.2 mg/L
Sodium	23480.00 mg/L				

Anions

Chloride	45692 mg/L	Sulfate	4136 mg/L
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Scale Type

Anhydrite CaSO4 PTB	N/A	Anhydrite CaSO4 SI	-0.82
Barite BaSO4 PTB	0.1	Barite BaSO4 SI	0.36
Calcite CaCO3 PTB	314.2	Calcite CaCO3 SI	1.55
Celestite SrSO4 PTB	N/A	Celestite SrSO4 SI	-0.05
Gypsum CaSO4 PTB	N/A	Gypsum CaSO4 SI	-0.58
Hemihydrate CaSO4 PTB	N/A	Hemihydrate CaSO4 SI	-0.58

Comments

H2O Poor

Scaling predictions calculated using Odde-Tomson model

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CHAMPIONX

Complete Water Analysis Report

Customer: SLAWSON EXPLORATION CO INC
Region: Kansas
Location: Thomas County
System: Production System

Equipment: James AY 1
Sample Point: Wellhead
Sample ID: AR66772
Acct Rep Email: jevon.benisch@championx.com

Collection Date: 07/12/2021
Receive Date: 07/15/2021
Report Date: 07/16/2021
Location Code: 30919

Field Analysis

Bicarbonate	107.36 mg/L	Dissolved CO2	123.20 mg/L	Dissolved H2S	62.00 mg/L
Pressure Surface	40 psi	Temperature	75 ° F	pH of Water	7.50

Sample Analysis

Ionic Strength	1.31 mol/L	Specific Gravity	1.053	Total Dissolved Solids	74068.9 mg/L
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Cations

Iron	36.62 mg/L	Manganese	1.976 mg/L	Barium	0.234 mg/L
Strontium	52.91 mg/L	Calcium	1200 mg/L	Magnesium	386.8 mg/L
Sodium	24180.00 mg/L				

Anions

Chloride	46723 mg/L	Sulfate	1380 mg/L
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Scale Type

Anhydrite CaSO4 PTB	N/A	Anhydrite CaSO4 SI	-1.02
Barite BaSO4 PTB	0.0	Barite BaSO4 SI	0.06
Calcite CaCO3 PTB	N/A	Calcite CaCO3 SI	-0.50
Celestite SrSO4 PTB	N/A	Celestite SrSO4 SI	-0.27
Gypsum CaSO4 PTB	N/A	Gypsum CaSO4 SI	-0.78
Hemihydrate CaSO4 PTB	N/A	Hemihydrate CaSO4 SI	-0.77

Comments

H2O Good

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Complete Water Analysis Report

Customer: SLAWSON EXPLORATION CO INC

Region: Kansas

Location: Thomas County

System: Production System

Equipment: James AY 3

Sample Point: Wellhead

Sample ID: AR66773

Acct Rep Email: jevon.benisch@championx.com

Collection Date: 07/12/2021

Receive Date: 07/15/2021

Report Date: 07/16/2021

Location Code: 112456

Field Analysis

Bicarbonate	180.56 mg/L	Dissolved CO2	149.60 mg/L	Dissolved H2S	42.00 mg/L
Pressure Surface	40 psi	Temperature	79 °F	pH of Water	7.00

Sample Analysis

Ionic Strength	1.26 mol/L	Specific Gravity	1.051	Total Dissolved Solids	71818.95 mg/L
----------------	------------	------------------	-------	------------------------	---------------

Cations

Iron	0.889 mg/L	Manganese	0.191 mg/L	Barium	0.295 mg/L
Strontium	56.21 mg/L	Calcium	1147 mg/L	Magnesium	360.8 mg/L
Sodium	22860.00 mg/L				

Anions

Chloride	45450 mg/L	Sulfate	1763 mg/L
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Scale Type

Anhydrite CaSO4 PTB		N/A	Anhydrite CaSO4 SI		-0.91
Barite BaSO4 PTB		0.1	Barite BaSO4 SI		0.25
Calcite CaCO3 PTB		N/A	Calcite CaCO3 SI		-0.74
Celestite SrSO4 PTB		N/A	Celestite SrSO4 SI		-0.13
Gypsum CaSO4 PTB		N/A	Gypsum CaSO4 SI		-0.69
Hemihydrate CaSO4 PTB		N/A	Hemihydrate CaSO4 SI		-0.69

Comments

H2O Good

Scaling predictions calculated using Oddo-Tomson model

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Complete Water Analysis Report

Customer: SLAWSON EXPLORATION CO INC
Region: Kansas
Location: Thomas County
System: Production System

Equipment: James AY 4
Sample Point: Wellhead
Sample ID: AR66774
Acct Rep Email: jevon.benisch@championx.com

Collection Date: 07/12/2021
Receive Date: 07/15/2021
Report Date: 07/16/2021
Location Code: 177288

Field Analysis

Bicarbonate	204.96 mg/L	Dissolved CO2	132.00 mg/L	Dissolved H2S	7.00 mg/L
Pressure Surface	50 psi	Temperature	79 ° F	pH of Water	9.00

Sample Analysis

Ionic Strength	1.33 mol/L	Specific Gravity	1.053	Total Dissolved Solids	75118.41 mg/L
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Cations

Iron	0.728 mg/L	Manganese	0.067 mg/L	Barium	0.178 mg/L
Strontium	53.08 mg/L	Calcium	1185 mg/L	Magnesium	378.4 mg/L
Sodium	23880.00 mg/L				

Anions

Chloride	47086 mg/L	Sulfate	2330 mg/L
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Scale Type

Anhydrite CaSO4 PTB	N/A	Anhydrite CaSO4 SI	-0.78
Barite BaSO4 PTB	0.0	Barite BaSO4 SI	0.13
Calcite CaCO3 PTB	90.6	Calcite CaCO3 SI	1.31
Celestite SrSO4 PTB	N/A	Celestite SrSO4 SI	-0.05
Gypsum CaSO4 PTB	N/A	Gypsum CaSO4 SI	-0.57
Hemihydrate CaSO4 PTB	N/A	Hemihydrate CaSO4 SI	-0.57

Comments

H2O Good

Scaling predictions calculated using Oddo-Tomson model

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Complete Water Analysis Report

Customer: SLAWSON EXPLORATION CO INC

Region: Kansas

Location: Thomas County

System: Production System

Equipment: James BE 1

Sample Point: Wellhead

Sample ID: AR66775

Acct Rep Email: jevon.benisch@championx.com

Collection Date: 07/12/2021

Receive Date: 07/15/2021

Report Date: 07/16/2021

Location Code: 152482

Field Analysis

Bicarbonate	292.80 mg/L	Dissolved CO2	176.00 mg/L	Dissolved H2S	244.00 mg/L
Pressure Surface	20 psi	Temperature	78 ° F	pH of Water	7.50

Sample Analysis

Ionic Strength	1.38 mol/L	Specific Gravity	1.056	Total Dissolved Solids	79213.65 mg/L
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Cations

Iron	1.101 mg/L	Manganese	0.061 mg/L	Barium	0.176 mg/L
Strontium	40.71 mg/L	Calcium	825.7 mg/L	Magnesium	321.1 mg/L
Sodium	23930.00 mg/L				

Anions

Chloride	48662 mg/L	Sulfate	5140 mg/L
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Scale Type

Anhydrite CaSO4 PTB		N/A	Anhydrite CaSO4 SI		-0.61
Barite BaSO4 PTB		0.1	Barite BaSO4 SI		0.44
Calcite CaCO3 PTB		N/A	Calcite CaCO3 SI		-0.22
Celestite SrSO4 PTB		8.9	Celestite SrSO4 SI		0.16
Gypsum CaSO4 PTB		N/A	Gypsum CaSO4 SI		-0.40
Hemihydrate CaSO4 PTB		N/A	Hemihydrate CaSO4 SI		-0.41

Comments

H2O Good

Scaling predictions calculated using Oddy-Tomson model

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Complete Water Analysis Report

Customer: SLAWSON EXPLORATION CO INC
Region: Kansas
Location: Thomas County
System: Production System

Equipment: James B 1-23
Sample Point: Wellhead
Sample ID: AR66771
Acct Rep Email: jevon.benisch@championx.com

Collection Date: 07/12/2021
Receive Date: 07/15/2021
Report Date: 07/16/2021
Location Code: 422627

Field Analysis

Bicarbonate	161.06 mg/L	Dissolved CO2	176.00 mg/L	Dissolved H2S	66.00 mg/L
Pressure Surface	50 psi	Temperature	86 °F	pH of Water	8.00

Sample Analysis

Ionic Strength	1.29 mol/L	Specific Gravity	1.052	Total Dissolved Solids	73318.34 mg/L
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Cations

Iron	2.059 mg/L	Manganese	0.068 mg/L	Barium	0.142 mg/L
Strontium	32.91 mg/L	Calcium	880.9 mg/L	Magnesium	303.2 mg/L
Sodium	24630.00 mg/L				

Anions

Chloride	44420 mg/L	Sulfate	2888 mg/L
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Scale Type

Anhydrite CaSO4 PTB	N/A	Anhydrite CaSO4 SI	-0.77
Barite BaSO4 PTB	0.0	Barite BaSO4 SI	0.11
Calcite CaCO3 PTB	14.5	Calcite CaCO3 SI	0.16
Celestite SrSO4 PTB	N/A	Celestite SrSO4 SI	-0.14
Gypsum CaSO4 PTB	N/A	Gypsum CaSO4 SI	-0.59
Hemihydrate CaSO4 PTB	N/A	Hemihydrate CaSO4 SI	-0.59

Comments

H2O Fair

Scaling predictions calculated using Oddo-Tomson model

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Complete Water Analysis Report

Customer: SLAWSON EXPLORATION CO INC
Region: Kansas
Location: Thomas County
System: Production System

Equipment: James 1-26
Sample Point: Wellhead
Sample ID: AR66776
Acct Rep Email: jevon.benisch@championx.com

Collection Date: 07/13/2021
Receive Date: 07/15/2021
Report Date: 07/16/2021
Location Code: 30917

Field Analysis

Bicarbonate	219.60 mg/L	Dissolved CO2	440.00 mg/L	Dissolved H2S	139.00 mg/L
Pressure Surface	50 psi	Temperature	86 ° F	pH of Water	10.00

Sample Analysis

Ionic Strength	1.23 mol/L	Specific Gravity	1.051	Total Dissolved Solids	71056.45 mg/L
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Cations

Iron	22.36 mg/L	Manganese	6.489 mg/L	Barium	0.274 mg/L
Strontium	28.13 mg/L	Calcium	474.4 mg/L	Magnesium	235.2 mg/L
Sodium	23740.00 mg/L				

Anions

Chloride	44662 mg/L	Sulfate	1668 mg/L
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Scale Type

Anhydrite CaSO4 PTB	N/A	Anhydrite CaSO4 SI	-1.26
Barite BaSO4 PTB	0.1	Barite BaSO4 SI	0.18
Calcite CaCO3 PTB	112.1	Calcite CaCO3 SI	2.04
Celestite SrSO4 PTB	N/A	Celestite SrSO4 SI	-0.43
Gypsum CaSO4 PTB	N/A	Gypsum CaSO4 SI	-1.08
Hemihydrate CaSO4 PTB	N/A	Hemihydrate CaSO4 SI	-1.08

Comments

H2O Poor

Scaling predictions calculated using Odco-Tomson model

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Complete Water Analysis Report

Customer: SLAWSON EXPLORATION CO INC
Region: Kansas
Location: Thomas County
System: Production System

Equipment: James 2-26
Sample Point: Wellhead
Sample ID: AR66782
Acct Rep Email: jevon.benisch@championx.com

Collection Date: 07/13/2021
Receive Date: 07/16/2021
Report Date: 07/16/2021
Location Code: 30918

Field Analysis

Bicarbonate	146.40 mg/L	Dissolved CO2	140.80 mg/L	Dissolved H2S	3.00 mg/L
Pressure Surface	20 psi	Temperature	97 °F	pH of Water	9.00

Sample Analysis

Ionic Strength	1.33 mol/L	Specific Gravity	1.054	Total Dissolved Solids	74429.54 mg/L
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Cations

Iron	67.20 mg/L	Manganese	0.820 mg/L	Barium	0.080 mg/L
Strontium	23.54 mg/L	Calcium	1043 mg/L	Magnesium	298.5 mg/L
Sodium	23440.00 mg/L				

Anions

Chloride	42420 mg/L	Sulfate	6990 mg/L
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Scale Type

Anhydrite CaSO4 PTB	N/A	Anhydrite CaSO4 SI	-0.27
Barite BaSO4 PTB	0.0	Barite BaSO4 SI	0.14
Calcite CaCO3 PTB	64.4	Calcite CaCO3 SI	1.29
Celestite SrSO4 PTB	2.5	Celestite SrSO4 SI	0.07
Gypsum CaSO4 PTB	N/A	Gypsum CaSO4 SI	-0.17
Hemihydrate CaSO4 PTB	N/A	Hemihydrate CaSO4 SI	-0.18

Comments

H2O Good

Scaling predictions calculated using Oddo-Tomson model

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