

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	_____	_____	_____	_____	_____

DownHole SAT Water Analysis Report



SYSTEM IDENTIFICATION

K3 OIL & GAS OPERATING
 CONDIFF 8-22-5-23H
 ED WEBB
 BLEEDER
 SUMNER KS

Sample ID#: 5027
 Sample ID: 254809
 Sample Date: 03-16-2020 at 0000
 Report Date: 03-27-2020

WATER CHEMISTRY

CATIONS

Calcium(as Ca)	10070
Magnesium(as Mg)	2277
Barium(as Ba)	0.950
Strontium(as Sr)	340.30
Sodium(as Na)	45007
Potassium(as K)	472.40
Lithium(as Li)	10.45
Iron(as Fe)	3.59
Field Iron(as Fe)	0.00
Ammonia(as NH ₃)	0.00
Aluminum(as Al)	0.00
Manganese(as Mn)	0.412
Zinc(as Zn)	0.852
Lead(as Pb)	0.00

ANIONS

Chloride(as Cl)	94200
Sulfate(as SO ₄)	500.00
Bromine(as Br)	0.00
Dissolved CO ₂ (as CO ₂)	340.00
Bicarbonate(as HCO ₃)	170.80
Carbonate(as CO ₃)	0.00
Silica(as SiO ₂)	0.00
Phosphate(as PO ₄)	0.00
H ₂ S (as H ₂ S)	0.00
Fluoride(as F)	0.00
Nitrate(as NO ₃)	0.00
Boron(as B)	11.59

Temperature(°F)	101.00
Conductivity	216473
Resistivity	4.62

PARAMETERS

Sample pH	6.58
Sp.Gr.(g/mL)	1.10
T.D.S.	163178

SCALE AND CORROSION POTENTIAL

Temp. (°F)	Press. (atm)	Calcite CaCO ₃		Anhydrite CaSO ₄		Gypsum CaSO ₄ *2H ₂ O		Barite BaSO ₄		Celestite SrSO ₄		Siderite FeCO ₃		Mackawenite FeS		CO ₂ (mpy)	pCO ₂ (atm)
		Lbs per 1000 Barrels	xSAT	Lbs per 1000 Barrels	xSAT	Lbs per 1000 Barrels	xSAT	Lbs per 1000 Barrels	xSAT	Lbs per 1000 Barrels	xSAT	Lbs per 1000 Barrels	xSAT	Lbs per 1000 Barrels	xSAT		
50.00	0.00	2.87	0.0194	0.363	-111.53	0.532	-63.68	2.21	0.337	0.321	-107.16	0.511	-0.0322	0.00	-0.274	0.0527	0.0254
65.45	0.00	2.55	0.0141	0.328	-121.51	0.464	-77.73	1.34	0.157	0.281	-119.66	0.508	-0.0256	0.00	-0.371	0.0987	0.0254
80.91	0.00	2.40	0.0114	0.314	-121.44	0.414	-89.06	0.867	-0.0940	0.261	-124.20	0.534	-0.0196	0.00	-0.466	0.0163	0.0254
96.36	0.00	2.34	0.00993	0.316	-112.99	0.377	-97.69	0.592	-0.420	0.250	-124.35	0.577	-0.0145	0.00	-0.555	0.0292	0.0254
111.82	0.00	2.30	0.00884	0.333	-98.61	0.376	-92.76	0.423	-0.827	0.244	-122.69	0.625	-0.0107	0.00	-0.641	0.0399	0.0254
127.27	0.00	2.24	0.00779	0.366	-80.89	0.397	-80.60	0.307	-1.36	0.238	-121.68	0.666	-0.00808	0.00	-0.735	0.0457	0.0254
142.73	0.00	2.14	0.00674	0.418	-62.09	0.415	-71.10	0.225	-2.05	0.230	-121.47	0.697	-0.00631	0.00	-0.839	0.0520	0.0254
158.18	0.00	2.02	0.00569	0.493	-43.94	0.431	-63.65	0.167	-2.94	0.222	-122.02	0.714	-0.00518	0.00	-0.956	0.0691	0.0254
173.64	0.00	1.88	0.00466	0.599	-27.53	0.445	-57.82	0.125	-4.05	0.214	-123.29	0.718	-0.00452	0.00	-1.09	0.0884	0.0254
189.09	0.00	1.71	0.00367	0.747	-13.45	0.457	-53.31	0.0944	-5.44	0.206	-125.28	0.708	-0.00419	0.00	-1.24	0.0510	0.0254
204.55	0.00	1.54	0.00272	0.955	-1.82	0.466	-49.87	0.0720	-7.13	0.197	-128.00	0.685	-0.00409	0.00	-1.40	0.0470	0.0254
220.00	0.171	1.35	0.00179	1.24	7.45	0.470	-49.30	0.0549	-9.26	0.187	-134.87	0.644	-0.00438	0.00	-1.61	0.0765	0.0298

Saturation Levels (xSAT) are the ratio of ion activity to solubility, e.g. {Ca}{CO₃}/K_{sp}. pCO₂ (atm) is the partial pressure of CO₂ in the gas phase.
 Lbs/1000 Barrels scale is the quantity of precipitation (or dissolution) required to instantaneously bring the water to equilibrium.

