

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



JACAM LABORATORIES

SYSTEM IDENTIFICATION

LINN OPERATING
CLARK SWD
JASON URWIN
STOCK TANK
STANTON KS

Sample ID#: 3076
ID: 147901
Report Date: 03-08-2017
Sample Date: 03-08-2017
at 0000

WATER CHEMISTRY

CATIONS

Calcium(as Ca)	5779
Magnesium(as Mg)	3345
Barium(as Ba)	0.204
Strontium(as Sr)	141.20
Sodium(as Na)	77701
Potassium(as K)	536.80
Lithium(as Li)	11.35
Iron(as Fe)	0.0510
Field Iron(as Fe)	0.00
Ammonia(as NH ₃)	0.00
Aluminum(as Al)	0.944
Manganese(as Mn)	0.490
Zinc(as Zn)	0.0820
Lead(as Pb)	0.00

ANIONS

Chloride(as Cl)	159400
Sulfate(as SO ₄)	1550
Bromine(as Br)	0.00
Dissolved CO ₂ (as CO ₂)	31.00
Bicarbonate(as HCO ₃)	50.00
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)	17.13

PARAMETERS

Temperature(°F)	60.00
T.D.S.	234576
Resistivity:	2.34
Sample pH	6.50
Conductivity:	427481

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)
50.00	0.00	0.138	-0.0125	0.634	-98.42	0.831	-39.50	0.944	-0.00714	0.266	-140.86	< 0.001	-0.441	0.00	-0.645	0.0552	0.00751
65.45	0.00	0.188	-0.0104	0.560	-121.90	0.710	-72.27	0.559	-0.0951	0.227	-159.52	< 0.001	-0.389	0.00	-0.654	0.103	0.00751
80.91	0.00	0.243	-0.00867	0.524	-129.13	0.620	-99.26	0.352	-0.222	0.206	-168.81	< 0.001	-0.346	0.00	-0.664	0.0468	0.00751
96.36	0.00	0.295	-0.00731	0.516	-122.77	0.552	-120.68	0.235	-0.393	0.193	-172.68	0.00118	-0.311	0.00	-0.675	0.0613	0.00751
111.82	0.00	0.338	-0.00629	0.532	-106.54	0.537	-118.15	0.164	-0.615	0.183	-174.07	0.00149	-0.282	0.00	-0.686	0.0642	0.00751
127.27	0.00	0.370	-0.00554	0.572	-84.35	0.554	-102.50	0.116	-0.917	0.174	-175.87	0.00179	-0.258	0.00	-0.699	0.0539	0.00751
142.73	0.00	0.386	-0.00506	0.638	-59.69	0.568	-90.62	0.0831	-1.32	0.165	-178.32	0.00203	-0.238	0.00	-0.713	0.0437	0.00751
158.18	0.00	0.382	-0.00482	0.738	-35.28	0.578	-81.62	0.0602	-1.86	0.156	-181.40	0.00218	-0.221	0.00	-0.728	0.0455	0.00751
173.64	0.00	0.359	-0.00477	0.879	-12.91	0.585	-74.83	0.0441	-2.58	0.147	-185.10	0.00221	-0.207	0.00	-0.745	0.0471	0.00751
189.09	0.00	0.324	-0.00486	1.08	6.44	0.589	-69.81	0.0327	-3.50	0.138	-189.45	0.00214	-0.195	0.00	-0.762	0.0237	0.00751
204.55	0.00	0.281	-0.00504	1.36	22.46	0.592	-66.23	0.0244	-4.67	0.130	-194.48	0.00198	-0.185	0.00	-0.782	0.0199	0.00751
220.00	0.171	0.229	-0.00550	1.73	35.87	0.587	-66.77	0.0183	-6.21	0.121	-204.21	0.00172	-0.180	0.00	-0.811	0.0271	0.00879
		Lbs per xSAT 1000 Barrels		Lbs per xSAT 1000 Barrels		Lbs per xSAT 1000 Barrels		Lbs per xSAT 1000 Barrels		Lbs per xSAT 1000 Barrels		Lbs per xSAT 1000 Barrels		Lbs per xSAT 1000 Barrels			

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.

