

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	_____	_____	_____	_____	_____



Central Area Laboratory
12701 N. Santa Fe Ave, Suite 151
Oklahoma City, Oklahoma 73114

REPORT DATE: 6/17/2021

COMPLETE WATER ANALYSIS REPORT SSP v.2010

CUSTOMER:	BELPORT OIL, INC.	ACCOUNT REP:	KENTON MEYER
DISTRICT:	KANSAS	SAMPLE ID:	202110003702
AREA/LEASE:	OSCAR WEST	SAMPLE DATE:	5/25/2021
SAMPLE POINT NAME:	OSCAR WEST 503	ANALYSIS DATE:	6/17/2021
SITE TYPE:	WELL SITES	ANALYST:	BS
SAMPLE POINT DESCRIPTION:	NOT PROVIDED		

BELPORT OIL, INC., OSCAR WEST, OSCAR WEST 503

FIELD DATA		ANALYSIS OF SAMPLE					
		ANIONS:		CATIONS:			
		mg/L	meq/L	mg/L	meq/L		
Initial Temperature (°F):	250	Chloride (Cl ⁻):	50018.0	1410.9	Sodium (Na ⁺):	27476.1	1195.7
Final Temperature (°F):	73	Sulfate (SO ₄ ²⁻):	1143.0	23.8	Potassium (K ⁺):	87.4	2.2
Initial Pressure (psi):	100	Borate (H ₃ BO ₃):	26.1	0.4	Magnesium (Mg ²⁺):	995.3	81.9
Final Pressure (psi):	15	Fluoride (F ⁻):	ND		Calcium (Ca ²⁺):	2266.7	113.1
		Bromide (Br ⁻):	ND		Strontium (Sr ²⁺):	279.1	6.4
pH:		Nitrite (NO ₂ ⁻):	ND		Barium (Ba ²⁺):	0.7	0.0
pH at time of sampling:	7.0	Nitrate (NO ₃ ⁻):	ND		Iron (Fe ²⁺):	1.3	0.0
		Phosphate (PO ₄ ³⁻):	1.2	0.0	Manganese (Mn ²⁺):	0.2	0.0
		Silica (SiO ₂):	ND		Lead (Pb ²⁺):	ND	
					Zinc (Zn ²⁺):	ND	
ALKALINITY BY TITRATION:							
		mg/L	meq/L				
Bicarbonate (HCO ₃ ⁻):	457.5		7.5		Aluminum (Al ³⁺):		ND
Carbonate (CO ₃ ²⁻):	ND				Chromium (Cr ³⁺):		ND
Hydroxide (OH ⁻):	ND				Cobalt (Co ²⁺):		ND
					Copper (Cu ²⁺):		ND
					Molybdenum (Mo ²⁺):		ND
aqueous CO ₂ (ppm):	110.0	Formic Acid:	ND		Nickel (Ni ²⁺):		ND
aqueous H ₂ S (ppm):	65.0	Acetic Acid:	ND		Tin (Sn ²⁺):		ND
aqueous O ₂ (ppb):	ND	Propionic Acid:	ND		Titanium (Ti ²⁺):		ND
		Butyric Acid:	ND		Vanadium (V ²⁺):		ND
Calculated TDS (mg/L):	82725	Valeric Acid:	ND		Zirconium (Zr ²⁺):		ND
Density/Specific Gravity (g/cm ³):	1.0530				Lithium (Li):		ND
Measured Specific Gravity:	ND						
Conductivity (mmhos):	ND				Total Hardness:	10086	N/A
Resistivity:	ND						
MCF/D:	No Data						
BOPD:	No Data						
BWPD:	No Data	Anion/Cation Ratio:	1.03				ND = Not Determined

SCALE PREDICTIONS BASED ON FIELD PROVIDED DATA; FUTHER MODELING MAY BE REQUIRED FOR VALIDATION OF SCALE PREDICTION RESULTS.

Conditions		Barite (BaSO ₄)		Calcite (CaCO ₃)		Gypsum (CaSO ₄ ·2H ₂ O)		Anhydrite (CaSO ₄)	
Temp	Press.	Index	Amt (ptb)	Index	Amt (ptb)	Index	Amt (ptb)	Index	Amt (ptb)
73°F	15 psi	0.63	0.307	0.95	74.440	-0.50	0.000	-0.73	0.000
93°F	24 psi	0.48	0.267	0.97	76.224	-0.49	0.000	-0.65	0.000
112°F	34 psi	0.34	0.219	1.03	79.036	-0.48	0.000	-0.55	0.000
132°F	43 psi	0.23	0.164	1.10	82.069	-0.47	0.000	-0.45	0.000
152°F	53 psi	0.13	0.106	1.17	85.115	-0.46	0.000	-0.34	0.000
171°F	62 psi	0.05	0.045	1.25	88.119	-0.45	0.000	-0.23	0.000
191°F	72 psi	-0.01	0.000	1.34	91.072	-0.43	0.000	-0.11	0.000
211°F	81 psi	-0.07	0.000	1.44	94.173	-0.41	0.000	0.02	18.850
230°F	91 psi	-0.12	0.000	1.54	97.247	-0.39	0.000	0.14	138.409
250°F	100 psi	-0.15	0.000	1.65	100.225	-0.37	0.000	0.27	235.035

Conditions		Celestite (SrSO ₄)		Halite (NaCl)		Iron Sulfide (FeS)		Iron Carbonate (FeCO ₃)	
Temp	Press.	Index	Amt (ptb)	Index	Amt (ptb)	Index	Amt (ptb)	Index	Amt (ptb)
73°F	15 psi	0.29	87.472	-1.69	0.000	2.32	0.723	-0.64	0.000
93°F	24 psi	0.30	88.137	-1.70	0.000	2.18	0.721	-0.55	0.000
112°F	34 psi	0.30	89.484	-1.72	0.000	2.09	0.720	-0.45	0.000
132°F	43 psi	0.31	91.844	-1.73	0.000	2.05	0.719	-0.35	0.000
152°F	53 psi	0.33	95.387	-1.73	0.000	2.02	0.719	-0.25	0.000
171°F	62 psi	0.35	100.126	-1.74	0.000	2.02	0.719	-0.16	0.000
191°F	72 psi	0.38	105.939	-1.74	0.000	2.03	0.719	-0.08	0.000
211°F	81 psi	0.42	112.602	-1.74	0.000	2.06	0.720	0.00	0.000
230°F	91 psi	0.46	119.829	-1.73	0.000	2.11	0.720	0.07	0.135
250°F	100 psi	0.50	127.306	-1.73	0.000	2.16	0.721	0.13	0.244

Note 1: When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered

Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the eight (8) scales.

Note 3: Saturation Index predictions on this sheet use pH and alkalinity; %CO₂ is not included in the calculations.



Comments:

