

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: 3/13/2025

COMPLETE WATER ANALYSIS REPORT SSP v.2010

CUSTOMER: SHAKESPEARE OIL
DISTRICT: KANSAS
AREA/LEASE: CAMPBELL
SAMPLE POINT NAME: CAMPBELL 2-8
SITE TYPE: WELL SITES
SAMPLE POINT DESCRIPTION: TANK
CUSTOMER SAMPLE POINT ID:

ACCOUNT REP: BRETT J SUTER
SAMPLE ID: 202510002019
SAMPLE DATE: 2/27/2025
ANALYSIS DATE: 3/13/2025
ANALYST: BS/RH

SHAKESPEARE OIL, CAMPBELL, CAMPBELL 2-8

FIELD DATA			ANALYSIS OF SAMPLE											
			ANIONS:		mg/L		meq/L		CATIONS:		mg/L		meq/L	
Initial Temperature (°F):	100		Chloride (Cl ⁻):	52513.0	1481.3	Sodium (Na ⁺):	33408.5	1453.8						
Final Temperature (°F):	58		Sulfate (SO ₄ ²⁻):	3675.0	76.5	Potassium (K ⁺):	364.6	9.3						
Initial Pressure (psi):	100		Borate (H ₃ BO ₃):	190.9	3.1	Magnesium (Mg ²⁺):	481.9	39.7						
Final Pressure (psi):	15		Fluoride (F ⁻):	ND		Calcium (Ca ²⁺):	1310.8	65.4						
			Bromide (Br ⁻):	ND		Strontium (Sr ²⁺):	72.2	1.6						
pH:			Nitrite (NO ₂ ⁻):	ND		Barium (Ba ²⁺):	0.7	0.0						
pH at time of sampling:	7.4		Nitrate (NO ₃ ⁻):	ND		Iron (Fe ²⁺):	0.0	0.0						
			Phosphate (PO ₄ ³⁻):	0.3	0.0	Manganese (Mn ²⁺):	0.0	0.0						
			Silica (SiO ₂):	ND		Lead (Pb ²⁺):	ND	0.0						
						Zinc (Zn ²⁺):	0.0	0.0						
ALKALINITY BY TITRATION:			mg/L		meq/L									
Bicarbonate (HCO ₃ ⁻):	750.0	12.3							Aluminum (Al ³⁺):	ND				
Carbonate (CO ₃ ²⁻):	ND								Chromium (Cr ³⁺):	ND				
Hydroxide (OH ⁻):	ND								Cobalt (Co ²⁺):	ND				
			ORGANIC ACIDS:		mg/L		meq/L							
aqueous CO ₂ (ppm):	70.0		Formic Acid:	ND		Molybdenum (Mo ²⁺):	ND							
aqueous H ₂ S (ppm):	10.0		Acetic Acid:	ND		Nickel (Ni ²⁺):	ND							
aqueous O ₂ (ppb):	ND		Propionic Acid:	ND		Tin (Sn ²⁺):	ND							
			Butyric Acid:	ND		Titanium (Ti ²⁺):	ND							
Calculated TDS (mg/L):	92577		Valeric Acid:	ND		Vanadium (V ²⁺):	ND							
Density/Specific Gravity (g/cm ³):	1.0592								Zirconium (Zr ²⁺):	ND				
Measured Specific Gravity:	ND								Lithium (Li):	ND				
Conductivity (mmhos):	ND								Total Hardness:	5345	N/A			
Resistivity:	ND													
MCF/D:	No Data													
BOPD:	No Data													
BWPD:	No Data													
			Anion/Cation Ratio:		1.00		ND = Not Determined							

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

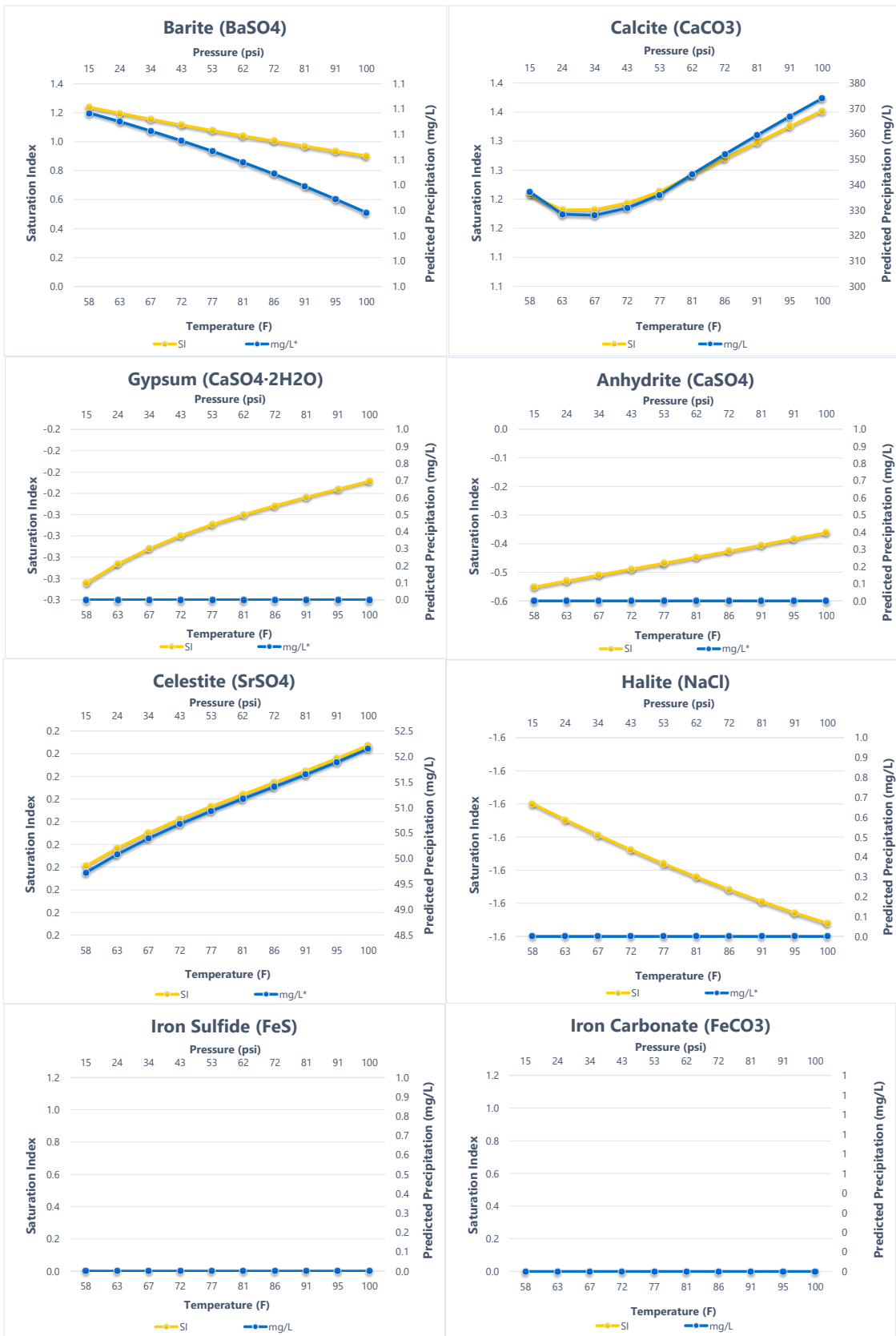
Conditions		Barite (BaSO ₄)		Calcite (CaCO ₃)		Gypsum (CaSO ₄ ·2H ₂ O)		Anhydrite (CaSO ₄)	
Temp	Press.	Index	Amt (ptb)	Index	Amt (ptb)	Index	Amt (ptb)	Index	Amt (ptb)
58°F	15 psi	1.24	0.384	1.21	118.012	-0.27	0.000	-0.55	0.000
63°F	24 psi	1.20	0.382	1.18	114.934	-0.26	0.000	-0.53	0.000
67°F	34 psi	1.16	0.379	1.18	114.790	-0.26	0.000	-0.51	0.000
72°F	43 psi	1.12	0.376	1.19	115.788	-0.25	0.000	-0.49	0.000
77°F	53 psi	1.08	0.373	1.21	117.606	-0.25	0.000	-0.47	0.000
81°F	62 psi	1.04	0.370	1.24	120.438	-0.25	0.000	-0.45	0.000
86°F	72 psi	1.00	0.367	1.27	123.177	-0.25	0.000	-0.43	0.000
91°F	81 psi	0.97	0.364	1.30	125.827	-0.25	0.000	-0.41	0.000
95°F	91 psi	0.93	0.360	1.33	128.393	-0.24	0.000	-0.38	0.000
100°F	100 psi	0.90	0.356	1.35	130.879	-0.24	0.000	-0.36	0.000

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)
58°F	15 psi	0.18	17.404	-1.57	0.000	0	0.000		0.000
63°F	24 psi	0.18	17.529	-1.57	0.000	0	0.000		0.000
67°F	34 psi	0.18	17.638	-1.58	0.000	0	0.000		0.000
72°F	43 psi	0.18	17.736	-1.58	0.000	0	0.000		0.000
77°F	53 psi	0.18	17.826	-1.59	0.000	0	0.000		0.000
81°F	62 psi	0.18	17.910	-1.59	0.000	0	0.000		0.000
86°F	72 psi	0.18	17.992	-1.60	0.000	0	0.000		0.000
91°F	81 psi	0.18	18.075	-1.60	0.000	0	0.000		0.000
95°F	91 psi	0.19	18.161	-1.60	0.000	0	0.000		0.000
100°F	100 psi	0.19	18.253	-1.61	0.000	0	0.000		0.000

- 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:



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