KOLAR Document ID: 1912646

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 # 7311
Name: Shakespeare Oil Co., Inc.
Address 1: 202 W MAIN ST
Address 2:
City: SALEM State: IL Zip: 62881 + 1519
Contact Person: Joseph McDanel
Phone: (618) 548-1585
Lease Name: BRUNGARDT
Well Number: 2-36

API No.: 15-063-22476-00-00
Permit No: D34640.0
Reporting Year: 2025
(January 1 to December 31)

____ - NW - NE - SW Sec. 36 Twp. 11 S. R. 31 ☐ E ☑ W
(Q/Q/Q/Q)
2258 feet from ☐ N / ☑ S Line of Section
1335 feet from ☐ E / ☑ W Line of Section
County: Gove

I. Injection Fluid:

Type *(Pick one)*: ☐ Fresh Water ☐ Treated Brine ☐ Untreated Brine ☑ Water/Brine
Source: ☑ Produced Water ☐ Other *(Attach list)*
Quality: Total Dissolved Solids: 34457 mg/l Specific Gravity: 1.0216 Additives:
(Attach water analysis, if available)

II. Well Data:

Maximum Authorized Injection Pressure: 0 psi Injection Zone: CEDAR HILLS
Maximum Authorized Injection Rate: 500 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	0	0	0	0	0
February	0	0	0	0	0
March	0	0	0	0	0
April	0	0	0	0	0
May	0	0	0	0	0
June	0	0	0	0	0
July	0	0	0	0	0
August	0	0	0	0	0
September	0	0	0	0	0
October	0	0	0	0	0
November	1280	0	0	0	16
December	2412	0	0	0	31
TOTAL	3692		0		

Submitted Electronically

Baker Hughes

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

Upstream Chemicals

REPORT DATE: 2/23/2026

COMPLETE WATER ANALYSIS REPORT SSP v.2010

CUSTOMER:	SHAKESPEARE OIL	**ACCOUNT REP:**	TREVOR PFANNENSTIEL
DISTRICT:	KANSAS	**SAMPLE ID:**	202610001356
AREA/LEASE:	BRUNGARDT	**SAMPLE DATE:**	1/29/2026
SAMPLE POINT NAME	BRUNGARDT 36-2	**ANALYSIS DATE:**	2/19/2026
SITE TYPE:	WELL SITES	**ANALYST:**	BS/RH
SAMPLE POINT DESCRIPTION:	NOT PROVIDED		
CUSTOMER SAMPLE POINT ID:			

SHAKESPEARE OIL, BRUNGARDT, BRUNGARDT 36-2

FIELD DATA

Initial Temperature (°F):	150
Final Temperature (°F):	50
Initial Pressure (psi):	100
Final Pressure (psi):	15
pH:	
pH at time of sampling:	7.3

ALKALINITY BY TITRATION:	**mg/L**	**meq/L**
Bicarbonate (HCO_3^-):	274.5	4.5
Carbonate (CO_3^{2-}):	ND	
Hydroxide (OH^-):	ND	

aqueous CO_2 (ppm):	49.5
aqueous H_2S (ppm):	15.0
aqueous O2 (ppb):	ND
Calculated TDS (mg/L):	34457
Density/Specific Gravity (g/cm³):	1.0216
Measured Specific Gravity	ND
Conductivity (mmhos):	ND
Resistivity:	ND
MCF/D:	No Data
BOPD:	No Data
BWPD:	No Data

ANALYSIS OF SAMPLE

ANIONS:	**mg/L**	**meq/L**
Chloride (Cl^-):	18655.0	526.2
Sulfate (SO_4^{2-}):	2911.0	60.6
Borate (H_3BO_3):	75.7	1.2
Fluoride (F^-):	ND	
Bromide (Br^-):	ND	
Nitrite (NO_2^-):	ND	
Nitrate (NO_3^-):	ND	
Phosphate (PO_4^{3-}):	0.3	0.0
Silica (SiO_2):	ND	

ORGANIC ACIDS:	**mg/L**	**meq/L**
Formic Acid:	ND	
Acetic Acid:	ND	
Propionic Acid:	ND	
Butyric Acid:	ND	
Valeric Acid:	ND	

Anion/Cation Ratio:	1.03

CATIONS:	**mg/L**	**meq/L**
Sodium (Na^+):	9994.9	434.9
Potassium (K^+):	212.9	5.4
Magnesium (Mg^{2+}):	488.4	40.2
Calcium (Ca^{2+}):	1864.8	93.1
Strontium (Sr^{2+}):	54.6	1.2
Barium (Ba^{2+}):	0.0	0.0
Iron (Fe^{2+}):	0.6	0.0
Manganese (Mn^{2+}):	0.0	0.0
Lead (Pb^{2+}):	ND	
Zinc (Zn^{2+}):	0.3	0.0
Aluminum (Al^{3+}):	ND	
Chromium (Cr^{3+}):	ND	
Cobalt (Co^{2+}):	ND	
Copper (Cu^{2+}):	ND	
Molybdenum (Mo^{2+}):	ND	
Nickel (Ni^{2+}):	ND	
Tin (Sn^{2+}):	ND	
Titanium (Ti^{2+}):	ND	
Vanadium (V^{2+}):	ND	
Zirconium (Zr^{2+}):	ND	
Lithium (Li):	ND	
Total Hardness:	6736	N/A

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 ($CaSO_4 \cdot 2H_2O$)**		**Anhydrite ($CaSO_4$)**	
Temp	**Press.**	**Index**	**Amt (ptb)**	**Index**	**Amt (ptb)**	**Index**	**Amt (ptb)**	**Index**	**Amt (ptb)**
50°F	15 psi		0.000	0.73	32.948	0.10	241.856	-0.24	0.000
61°F	24 psi		0.000	0.74	33.451	0.10	235.046	-0.21	0.000
72°F	34 psi		0.000	0.78	34.957	0.10	231.632	-0.17	0.000
83°F	43 psi		0.000	0.82	36.830	0.10	233.208	-0.12	0.000
94°F	53 psi		0.000	0.87	38.850	0.10	240.161	-0.07	0.000
106°F	62 psi		0.000	0.93	41.200	0.11	252.375	-0.02	0.000
117°F	72 psi		0.000	1.00	43.532	0.11	269.486	0.04	71.648
128°F	81 psi		0.000	1.06	45.759	0.12	291.003	0.10	185.735
139°F	91 psi		0.000	1.13	47.879	0.13	316.359	0.16	297.291
150°F	100 psi		0.000	1.20	49.892	0.15	344.956	0.23	405.018

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)**
50°F	15 psi	0.25	17.590	-2.52	0.000	1.64	0.305	-1.18	0.000
61°F	24 psi	0.25	17.313	-2.54	0.000	1.52	0.303	-1.13	0.000
72°F	34 psi	0.25	17.176	-2.56	0.000	1.45	0.301	-1.06	0.000
83°F	43 psi	0.25	17.190	-2.57	0.000	1.40	0.300	-0.98	0.000
94°F	53 psi	0.25	17.360	-2.59	0.000	1.36	0.299	-0.89	0.000
106°F	62 psi	0.26	17.687	-2.60	0.000	1.35	0.298	-0.80	0.000
117°F	72 psi	0.27	18.167	-2.61	0.000	1.34	0.298	-0.71	0.000
128°F	81 psi	0.28	18.790	-2.61	0.000	1.34	0.298	-0.63	0.000
139°F	91 psi	0.29	19.543	-2.62	0.000	1.35	0.299	-0.54	0.000
150°F	100 psi	0.31	20.409	-2.62	0.000	1.37	0.299	-0.46	0.000

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

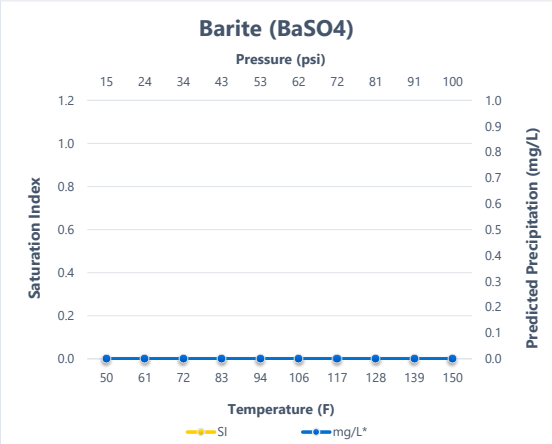
Note 2: Precipitation of each scale is considered separately. Total scale will be less than the sum of the amounts of the eight (8) scales.

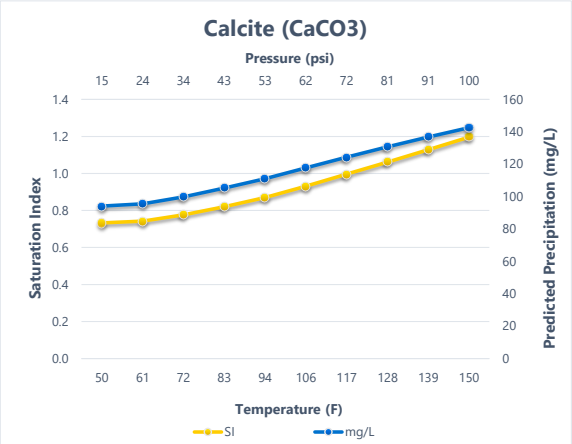
Note 3: Saturation Index predictions on this sheet use pH and alkalinity; $\%CO_2$ is not included in the calculations.

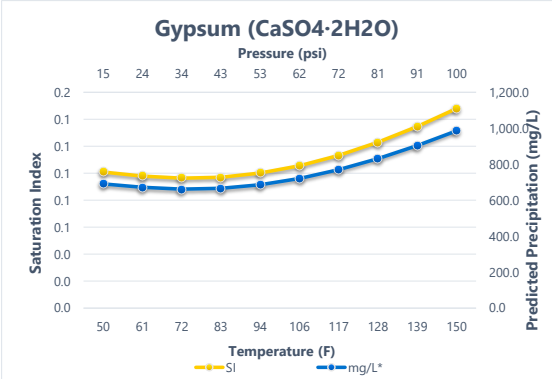
EESI ScaleSoftPitzer™ SSP2010

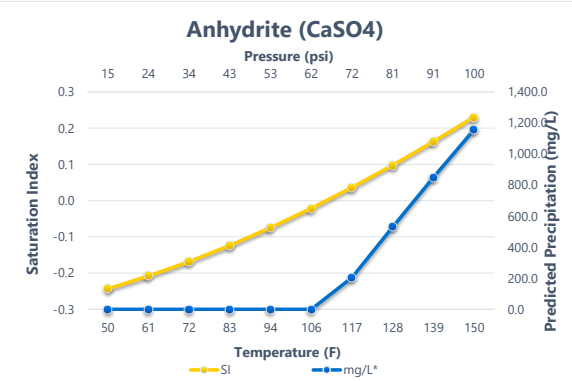
Comments:

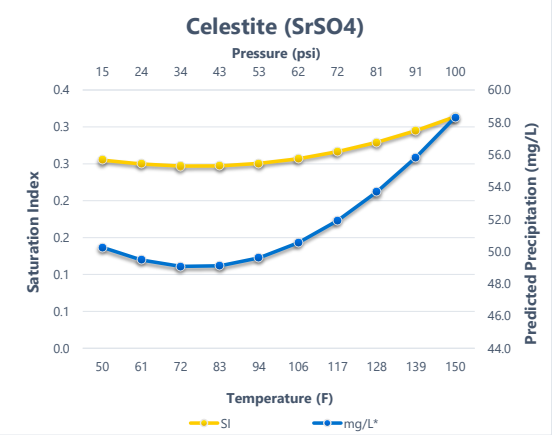
SAMPLE ID: 202610001356 SHAKESPEARE OIL, BRUNGARDT, BRUNGARDT 36-2

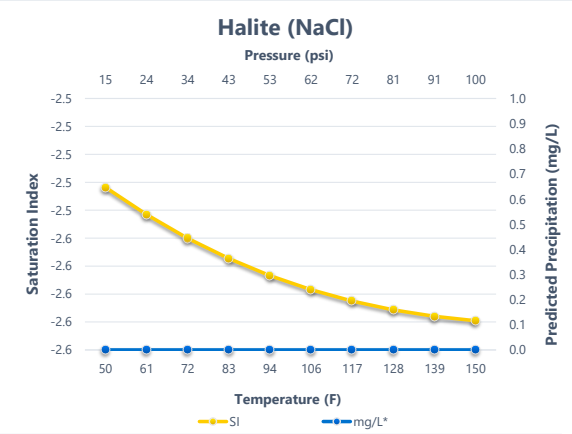


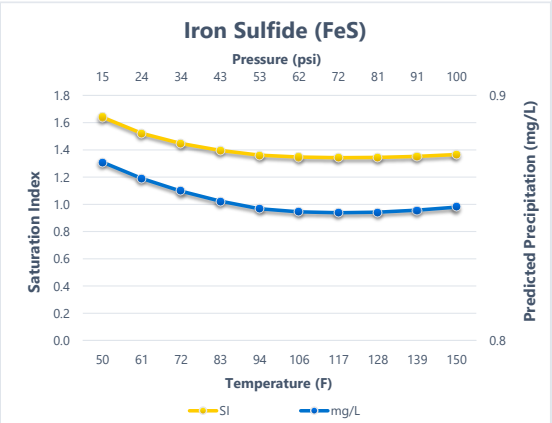


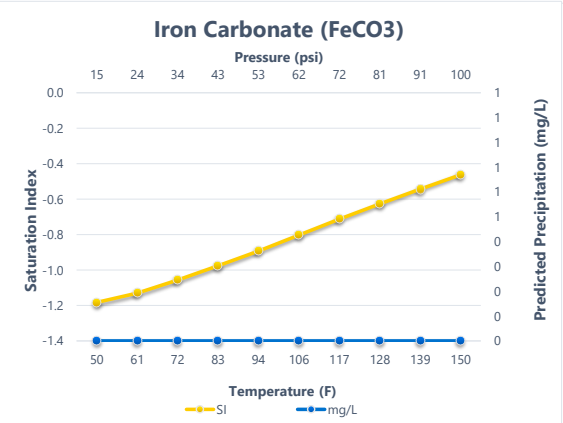












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