CENTRAL AREA LABORATORY
12701 N. SANTA FE AVE, SUITE 151
OKLAHOMA CITY, OKLAHOMA 73114

REPORT DATE: 7/16/2020

PARTIAL WATER ANALYSIS REPORT

CUSTOMER:	BEREXCO LLC	**ACCOUNT REP:**	BRETT BAHE
DISTRICT:	KANSAS	**SAMPLE ID:**	202010005550
LEASE/AREA:	KGS	**SAMPLE DATE:**	7/7/2020
SAMPLE POINT NAME:	KGS 6-10	**ANALYSIS DATE:**	7/16/2020
SITE TYPE:	WELL SITES	**ANALYST:**	BS
SAMPLE POINT DESCRIPTION:	SWAB		

BEREXCO LLC, KGS, KGS 6-10

FIELD DATA

Initial Temperature (°F):	**250**
Final Temperature (°F):	**80**
Initial Pressure (psi):	**100**
Final Pressure (psi):	**15**
pH:	
pH at time of sampling:	**Needs pH**

Scale Residual:	**ChemUsed**	**Resid. PPM**
	Total PO4	34.88

Alkalinity by Titration:	**mg/L**	**meq/L**
Bicarbonate (HCO_3^-):	**ND**	
Carbonate (CO_3^{2-}):	**ND**	
Hydroxide (OH^-):	**ND**	

aqueous CO_2 (ppm):	**ND**
aqueous H_2S (ppm):	**ND**
aqueous O2 (ppb):	**ND**
Calculated TDS (mg/L):	**93139**
Measured Density/Specific Gravity	**ND**
Conductivity (mmhos):	**ND**

ANALYSIS OF SAMPLE

ANIONS:	**mg/L**	**meq/L**
Chloride (Cl^-):	**59465.0**	**1675.1**
Sulfate (SO_4^{2-}):	**868.0**	**18.1**
Borate (H_3BO_3):	**72.7**	**1.2**
Fluoride (F^-):	**ND**	
Bromide (Br^-):	**ND**	
Nitrite (NO_2^-):	**ND**	
Nitrate (NO_3^-):	**ND**	
Phosphate (PO_4^{3-}):	**34.9**	**1.1**
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:	**1.12**

CATIONS:	**mg/L**	**meq/L**
Sodium (Na^+):	**21634.4**	**944.7**
Potassium (K^+):	**439.5**	**11.2**
Magnesium (Mg^{2+}):	**1488.7**	**122.5**
Calcium (Ca^{2+}):	**8318.7**	**415.1**
Strontium (Sr^{2+}):	**260.1**	**5.9**
Barium (Ba^{2+}):	**1.4**	**0.0**
Iron (Fe^{2+}):	**538.7**	**19.3**
Manganese (Mn^{2+}):	**17.4**	**0.6**
Lead (Pb^{2+}):	**ND**	
Zinc (Zn^{2+}):	**ND**	
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**	
Total Hardness:	**27228**	

ND = NOT DETERMINED

Comments: