



Oilfield Labs of America
3302 Pilot Ave
Midland, Texas 79706
1-855-OIL-LAB1

Report Date: 2/1/2018

Complete Water Analysis

Customer:	Pine Island Chemical	Account Rep:	Brent Fletcher
Operator:	Enwater	Sample ID:	1180124059
Lease:	Suter	Sample Date:	1/23/2018
Sample Point:	Inj WH	Received Date:	1/24/2018
Region:	West Texas	Log Out Date:	2/1/2018

Pine Island Chemical, Enwater, Suter, Inj WH

Field Data			Analysis of Sample						
		Anions:		mg/L	meq/L	Cations:		mg/L	meq/L
Initial Temperature (°F):	190	Chloride (Cl ⁻):	56400	1591.0	Sodium (Na ⁺):	28529	1241.5		
Final Temperature (°F):	80	Sulfate (SO ₄ ²⁻):	700	14.6	Potassium (K ⁺):	273	7.0		
Initial Pressure (psi):	1250	Borate (H ₃ BO ₃):	199	3.2	Magnesium (Mg ²⁺):	763	62.8		
Final Pressure (psi):	15	Silica (SiO ₂):	34.4	0.6	Calcium (Ca ²⁺):	2987	149.0		
Sample Specifics									
pH:	7.0				Strontium (Sr ²⁺):	276	6.3		
					Barium (Ba ²⁺):	3.0	0.0		
		Phosphate (PO ₄ ³⁻):	6.2	0.2	Iron (Fe ²⁺):	27.0	1.0		
					Manganese (Mn ²⁺):	0.6	0.0		
					Lead (Pb ²⁺):	ND			
					Zinc (Zn ²⁺):	0.3	0.0		
					Lithium (Li ⁺):	9.5	1.4		
Alkalinity by Titration:	mg/L	meq/L			Aluminum (Al ³⁺):	0.1	0.0		
Bicarbonate (HCO ₃ ⁻):	500	8.2							
Carbonate (CO ₃ ²⁻):	0.0	0.0							
Hydroxide (OH ⁻):	ND								
aqueous CO ₂ (ppm):	260				Total Hardness (CaCO ₃):	10922			
aqueous H ₂ S (ppm):	1.5								
Calculated TDS (mg/L):	90699								
Calculated Density (g/cm ³):	1.0574								
Resistivity (Ωcm):	N/A								
Conductivity (mS/cm):	N/A								
Turbidity (NTU):	N/A								
			Anion EPM Total:		1617	Cation EPM Total:		1468	
N/A - Not Applicable			% RPD of Cations/Anions:		9.7%	ND = Not Detected			

