

<b>EPIC</b>					
County:	San Juan	Field:	0		
State:	NM	Location:	LINDRITH 29E.		
Sampled at:	BRAIDEN HEAD	Formation:	N/A		
Date:	SEPTEMBER 8, 2025	Depth:	0		

## Envision Products Water Analysis

Sum +	mg/L	meq/L		Sum -	mg/L	meq/L
Potassium	0.0	0.00		Sulfate	410.0	8.54
Sodium	836.6	36.39		Chloride	1,000.0	28.21
Calcium	6.0	0.30		Carbonate	0.0	0.00
Magnesium	2.9	0.24		Bicarbonate	280.0	4.59
Iron	0.6	0.03		Hydroxide	0.0	0.00
Barium	2.0	0.03	<b>Analysis</b>	-	0.0	0.00
Strontium	0.0	0.00	<b>Balanced</b>	-	0.0	0.00
<b>CATIONS</b>	<b>848.1</b>	<b>36.99</b>		<b>ANIONS</b>	<b>1,690.0</b>	<b>41.34</b>

### System Parameters

Total Dissolved Solids @180C	2,538	mg/L
Sample Temperature, 'F	70	F
Sample pH, standard units	10.11	Units
Dissolved Oxygen	0.0	ppm
Carbon Dioxide	0.0	mg/L
Total Sulfide, (TS)	0.0	mg/L
Sulfide Ion, (S)	0	mg/L
Dissolved Hydrogen Sulfide, (TS-S)	0	mg/L
Specific Gravity	1.0020	
Resistivity, measured	0	ohm/m^3
Ionic strength	0.044	
Sulfate Reducing Bacteria	na	
Aerobic Bacteria	na	
Manganese Level	1	mg/L
Chemical	N/A	ppm
Amine	N/A	ppm

### Scaling Tendency

CACO3			CASO4				
Temp F	Stiff Davis Index	A Index	SOLUBILITY		S Index	A Index	
			Actual	Calculated			
32	1.14	5					
50	1.35	5	0.30	23.78	-23.48	-560	
68	1.56	5	0.30	24.49	-24.19	-576	
77	1.66	5	0.30	25.18	-24.88	-593	
86	1.76	5	0.30	25.51	-25.21	-601	
104	1.97	5	0.30	25.50	-25.20	-601	
122	2.17	5	0.30	24.54	-24.25	-578	
140	2.37	5	0.30	23.56	-23.26	-554	
158	2.57	5	0.30	22.54	-22.24	-530	
176	2.77	5					

**BASO4 SCALE POSSIBLE**  **YES**

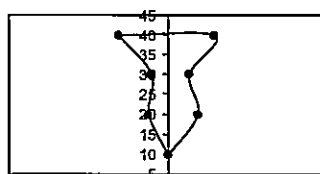
Water Analysis Pattern

**NOTE: Stiff Davis Index**  
 - indicates undersaturation. Scale formation negative.  
 0 indicates the water is at saturation point. Scale unlikely.  
 + indicates supersaturation. A positive scaling condition exists

**NOTE: Skillman Method Calcium Sulfate 'S' Index**  
 - indicates undersaturation. Scale formation negative.  
 0 indicates the water is at saturation point. Scale unlikely.  
 + indicates supersaturation. A positive scaling condition exists

**NOTE: A Index; worst possible case. Assumes 100% precipitation.**  
 - Units = pounds of scale produced / 1000 bbls. of water.  
 - A Index <= 0 Scale formation negative.  
 - A Index > 0 Scale formation positive.

40 30 20 10 20 30 40



Approved: Desirae

09/08/25

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Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

CONDITIONS

Action 507092

**CONDITIONS**

Operator: EPIC ENERGY, L.L.C. 332 Road 3100 Aztec, NM 87410	OGRID: 372834
	Action Number: 507092
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

**CONDITIONS**

Created By	Condition	Condition Date
jagarcia	Accepted for record	4/9/2026