

EPIC					
County:	San Juan	Field:	0		
State:	NM	Location:	CANDADO 2		
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	430.0	8.95
Sodium	1,025.9	44.62		Chloride	1,500.0	42.31
Calcium	24.0	1.20		Carbonate	0.0	0.00
Magnesium	11.4	0.94		Bicarbonate	20.0	0.33
Iron	3.6	0.19		Hydroxide	0.0	0.00
Barium	20.0	0.29	Analysis		0.0	0.00
Strontium	0.0	0.00	Balanced		0.0	0.00
CATIONS	1,084.9	47.24		ANIONS	1,950.0	51.59

System Parameters

Total Dissolved Solids @180C	3,035	mg/L
Sample Temperature, °F	70	F
Sample pH, standard units	7.67	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	1.0025	
Resistivity, measured	0	ohm/m^3
Ionic strength	0.055	
Sulfate Reducing Bacteria	na	
Aerobic Bacteria	na	
Manganese Level	15.5	mg/L
Chemical	N/A	ppm
Amine	N/A	ppm

Scaling Tendency

CACO3			CASO4				
Temp F	Stiff Davis Index	A Index	Temp F	SOLUBILITY		S Index	A Index
				Actual	Calculated		
32	-1.90	-122					
50	-1.69	-93	50	1.20	25.59	-24.40	-581
68	-1.49	-70	68	1.20	26.27	-25.07	-597
77	-1.38	-60	86	1.20	26.92	-25.72	-613
86	-1.28	-51	104	1.20	27.25	-26.05	-621
104	-1.07	-37	122	1.20	27.26	-26.06	-621
122	-0.86	-26	140	1.20	26.32	-25.12	-599
140	-0.65	-17	158	1.20	25.35	-24.15	-576
158	-0.45	-10	176	1.20	24.35	-23.15	-552
176	-0.24	-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

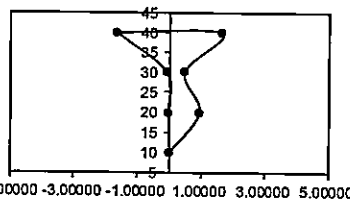
NOTE: Skillman Method Calcium Sulfate 'S Index'

- 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 10 20 30 40



Approved: Desirae
09/08/25 #

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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 507083

CONDITIONS

Operator: EPIC ENERGY, L.L.C. 332 Road 3100 Aztec, NM 87410	OGRID: 372834
	Action Number: 507083
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

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