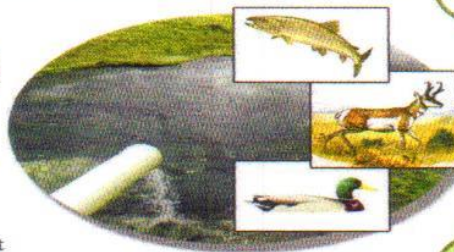


Hauk Analytical Services, Inc.

Waste water is a terrible thing to waste.

613 Meadow Lark Lane
Riverton, WY 82501

Phone: 307-856-8183 ehauck@bresnan.net



COMPANY: Saga
DATE RECEIVED: June 25, 2018
DATE SAMPLED: June 21, 2015
SAMPLE NUMBER: 676
FIELD: Rangely
COUNTY: Rio Blanco
STATE: Colorado

LEASE OR UNIT:
WELL: Gov 10-41-3
DEPTH:
FORMATION:
LOCATION:
TYPE OF WATER: Discharge
SAMPLE POINT: Discharge pump

API WATER ANALYSIS

CATIONS	mg/l	meq/l
Sodium, Na ⁺	32388	1410
Calcium, Ca ²⁺	3540	177
Magnesium, Mg ²⁺	636	52.3
Iron, Fe ³⁺	22.5	1.26

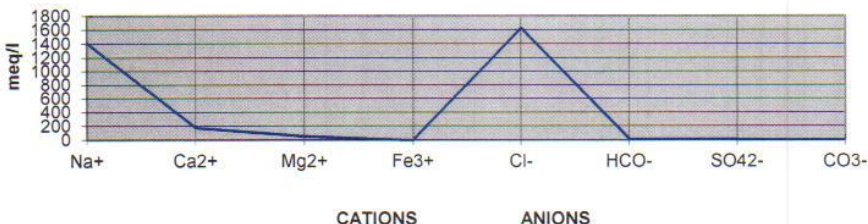
ANIONS	mg/l	meq/l
Chloride, Cl ⁻	57500	1620
Sulfate, SO ₄ ²⁻	247	5.13
Carbonate, CO ₃ ²⁻	Non detectable	
Bicarbonate, HCO ₃ ⁻	684	11.2
Hydroxide, OH ⁻	Non detectable	
Sulfide, S	3.8	0.24
TOTAL DISSOLVED SOLIDS:	95000	

OTHER PROPERTIES

pH.....: 6.3 pH units
Resistivity: 0.0726 (ohm-meters)
Specific gravity.....: 1.060

COMMENTS:

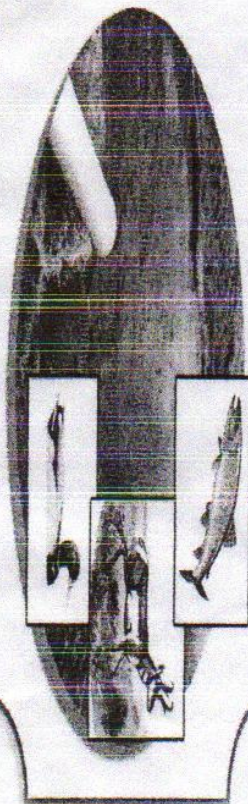
WATER PATTERN



Eugene M. Hauk
Eugene M. Hauk

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Report Address:

Saga Petroleum

CHAIN OF CUSTODY

[illegible]