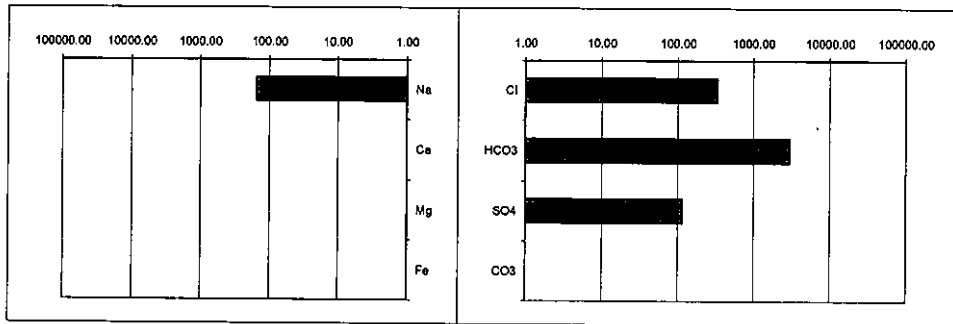


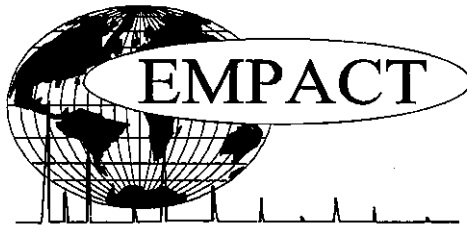
PROJECT NO. : 201402085 ANALYSIS NO. : 03
 COMPANY NAME : NIGHTHAWK PRODUCTION ANALYSIS DATE : FEBRUARY 27, 2014
 ACCOUNT NO. : SAMPLE DATE : FEBRUARY 19, 2014
 PRODUCER : CYLINDER NO. : 1L GLASS JAR
 LEASE NO. : SAMPLED BY : JOHN MOSER
 NAME/DESCRIP : WATER PRODUCTION TANK @ 16:20 EMPACT
 BIG SKY 4-11
 FIELD DATA SAMPLE TEMP. : 130
 SAMPLE PRES. : AMBIENT TEMP.:
 COMMENTS : SPOT

PARAMETER	METHOD	DETECTION LIMIT	REPORTED RESULTS/UNITS
Ammonia Nitrogen	SM 4500-NH3-G	0.03	52.80 mg/L
Bicarbonate	SM 2320-B	0.1	2910.90 mg/L
Boron	SM 4500-B B	0.01	40.33 mg/L
Calcium - Total	SM 3111-B	0.1	0.30 mg/L
Calcium - Hardness	SM 3111-B	0.1	0.70 mg/L as CaCO3
Carbonate	SM 2320-B	0.1	BDL mg/L
Chloride	EPA 300.0	0.01	332.83 mg/L
Iron - Total	SM 3111-B	0.005	0.72 mg/L
Magnesium - Total	SM 3111-B	0.1	1.00 mg/L
Nitrate Nitrogen	EPA 300.0	0.02	25.29 mg/L
Phosphate - Ortho *	EPA 300.0	0.01	4192.00 mg/L
pH	SM 4500-H-B	0.01	8.50 units
Potassium - Total	SM 3111-B	0.1	5156.50 mg/L
Resistivity @ 77° F	SM 2520 B	0.01	2.20 ohm.m
Sodium - Total	SM 3111-B	0.1	150.80 mg/L
Sodium Adsorption Ratio	SM 3111-B	0.1	29.40 units
Specific Gravity	SM 2710 F	0.001	1.01 g/ml
Sulfate	EPA 300.0	0.01	114.08 mg/L
Total Alkalinity	SM 2320-B	0.1	2386.00 mg/L as CaCO3
Total Dissolved Solids	SM 2540-C	5	16620.00 mg/L



BDL = Below Detection Limit *Typically not in Formation Waters, possible contamination.
 mg/L = Milligram Per Liter or ppm (wt/vol); ug/L = Micrograms Per Liter or PPB (wt/vol)
 SM = "Standard Methods for the Examination of Water and Wastewater", APHA, 19th Edition, 1995
 EPA = "Methods of Chemical Analysis of Water and Wastes", USEPA, EPA-600/4-79-020 rev 3/83

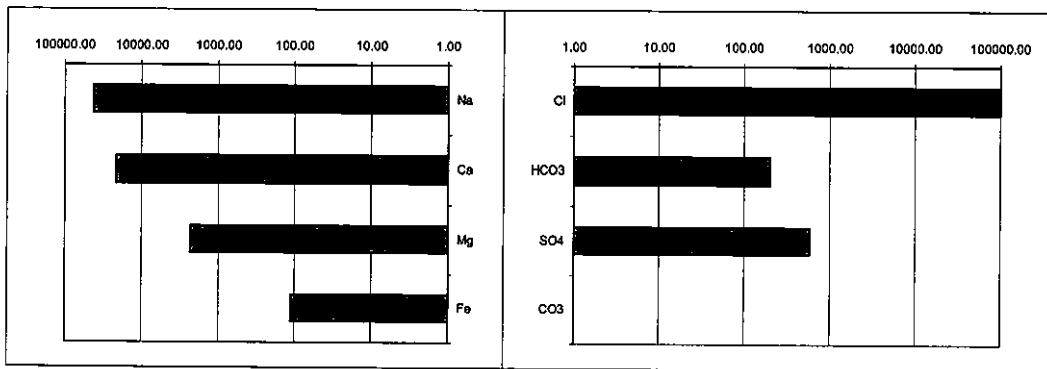
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FORMATION WATER

PROJECT NO. :	201402085	ANALYSIS NO. :	11
COMPANY NAME :	NIGHTHAWK PRODUCTION	ANALYSIS DATE:	FEBRUARY 27, 2014
ACCOUNT NO. :		SAMPLE DATE :	FEBRUARY 19, 2014
PRODUCER :		CYLINDER NO. :	1L GLASS JAR
LEASE NO. :		SAMPLED BY :	JOHN MOSER
NAME/DESCRIP :	WATER PRODUCTION TANK @ 18:10 SNOWBIRD 9-15		EMPACT
FIELD DATA		SAMPLE TEMP. :	108
SAMPLE PRES. :		AMBIENT TEMP.:	
COMMENTS :	SPOT		

<u>PARAMETER</u>	<u>METHOD</u>	<u>DETECTION LIMIT</u>	<u>REPORTED RESULTS/UNITS</u>	
Ammonia Nitrogen	SM 4500-NH3-G	0.03	14.91	mg/L
Bicarbonate	SM 2320-B	0.1	197.40	mg/L
Boron	SM 4500-B B	0.01	31.78	mg/L
Calcium - Total	SM 3111-B	0.1	21025.00	mg/L
Calcium - Hardness	SM 3111-B	0.1	52499.40	mg/L as CaCO3
Carbonate	SM 2320-B	0.1	BDL	mg/L
Chloride	EPA 300.0	0.01	99933.28	mg/L
Iron - Total	SM 3111-B	0.005	113.10	mg/L
Magnesium - Total	SM 3111-B	0.1	2301.00	mg/L
Nitrate Nitrogen	EPA 300.0	0.02	0.07	mg/L
pH	SM 4500-H-B	0.01	6.80	units
Potassium - Total	SM 3111-B	0.1	1215.00	mg/L
Resistivity @ 77° F	SM 2520 B	0.01	0.04	ohm.m
Sodium - Total	SM 3111-B	0.1	41715.00	mg/L
Sodium Adsorption Ratio	SM 3111-B	0.1	72.90	units
Specific Gravity	SM 2710 F	0.001	1.02	g/ml
Sulfate	EPA 300.0	0.01	581.54	mg/L
Total Alkalinity	SM 2320-B	0.1	161.80	mg/L as CaCO3
Total Dissolved Solids	SM 2540-C	5	153400.00	mg/L



BDL = Below Dection Limit

mg/L = Milligram Per Liter or ppm (wt/vol); ug/L = Micrograms Per Liter or PPB (wt/vol)

SM = "Standard Methods for the Examination of Water and Wastewater", APHA, 19th Edition, 1995

EPA = "Methods of Chemical Analysis of Water and Wastes", USEPA, EPA-600/4-79-020 rev 3/83

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