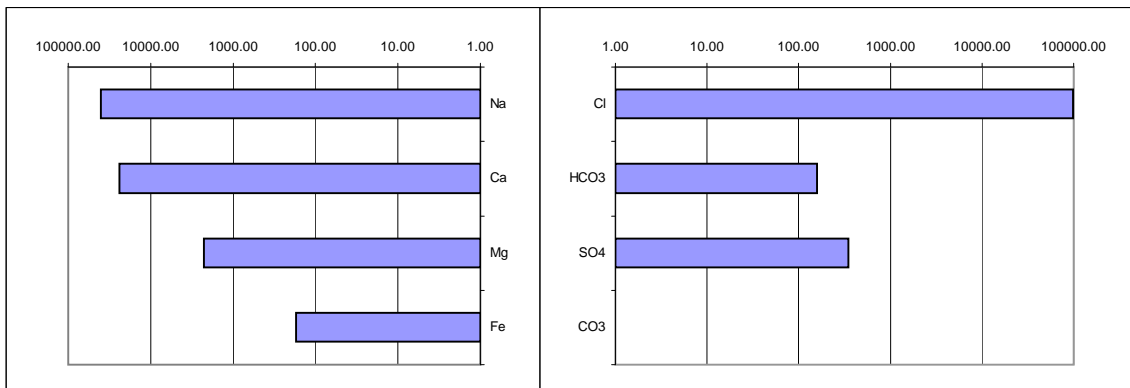


|                |                                  |                |               |
|----------------|----------------------------------|----------------|---------------|
| PROJECT NO. :  | 201405052                        | ANALYSIS NO. : | 01            |
| COMPANY NAME : | NIGHTHAWK PRODUCTION             | ANALYSIS DATE: | MAY 14, 2014  |
| ACCOUNT NO. :  |                                  | SAMPLE DATE :  | MAY 7, 2014   |
| PRODUCER :     |                                  | CYLINDER NO. : | MISC.         |
| LEASE NO. :    |                                  | SAMPLED BY :   | BURL MCENDREE |
| NAME/DESCRIP : | ARIKAREE CREEK #ISWD @ 4:30 P.M. |                | EMPACT        |

|                  |                |
|------------------|----------------|
| ***FIELD DATA*** | SAMPLE TEMP. : |
| 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                   | 27.68                         | mg/L                      |
| Bicarbonate             | SM 2320-B     | 0.1                    | 159.50                        | mg/L                      |
| Boron                   | SM 4500-B B   | 0.01                   | 35.60                         | mg/L                      |
| Calcium - Total         | SM 3111-B     | 0.1                    | 24050.00                      | mg/L                      |
| Calcium - Hardness      | SM 3111-B     | 0.1                    | 60052.80                      | mg/L as CaCO <sub>3</sub> |
| Carbonate               | SM 2320-B     | 0.1                    | BDL                           | mg/L                      |
| Chloride                | EPA 300.0     | 0.01                   | 99085.60                      | mg/L                      |
| Iron - Total            | SM 3111-B     | 0.005                  | 173.40                        | mg/L                      |
| Magnesium - Total       | SM 3111-B     | 0.1                    | 2264.00                       | mg/L                      |
| Nitrate Nitrogen        | EPA 300.0     | 0.02                   | 2.68                          | mg/L                      |
| pH                      | SM 4500-H-B   | 0.01                   | 6.00                          | units                     |
| Potassium - Total       | SM 3111-B     | 0.1                    | 1524.00                       | mg/L                      |
| Resistivity @ 77° F     | SM 2520 B     | 0.01                   | 0.06                          | ohm.m                     |
| Sodium - Total          | SM 3111-B     | 0.1                    | 40370.00                      | mg/L                      |
| Sodium Adsorption Ratio | SM 3111-B     | 0.1                    | 66.70                         | units                     |
| Specific Gravity        | SM 2710 F     | 0.001                  | 1.02                          | g/ml                      |
| Sulfate                 | EPA 300.0     | 0.01                   | 347.99                        | mg/L                      |
| Total Alkalinity        | SM 2320-B     | 0.1                    | 130.70                        | mg/L as CaCO <sub>3</sub> |
| Total Dissolved Solids  | SM 2540-C     | 5                      | 182253.00                     | 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

THE DATA PRESENTED HEREIN HAS BEEN ACQUIRED THROUGH JUDICIOUS APPLICATION OF CURRENT STATE-OF-THE ART ANALYTICAL TECHNIQUES. THE APPLICATIONS OF THIS INFORMATION IS THE RESPONSIBILITY OF THE USER. EMPACT ANALYTICAL SYSTEMS, INC. ASSUMES NO RESPONSIBILITY FOR ACCURACY OF THE REPORTED INFORMATION NOR ANY CONSEQUENCES OF IT'S APPLICATION.

