



CAMECO RESOURCES  
Smith Ranch-Highland  
Operation  
Mail:  
P.O. Box 1210  
Glenrock, WY  
82637 USA

April 3, 2009

Mr. Lowell Spackman, District I Supervisor  
Land Quality Division  
Wyoming Department of Environmental Quality  
122 W. 25<sup>th</sup> Street  
Cheyenne, WY 82002

Tel: (307) 358-6541  
Fax: (307) 358-4533  
[www.cameco.com](http://www.cameco.com)

RE: Highland Uranium Project, Permit to Mine No. 603, Excursion at Monitor Well IM-14

Dear Mr. Spackman:

In accordance with NRC License Condition No. 11.5 and Section 8.4 of the Operations Plan for the Highland Uranium Project, Power Resources, Inc. d/b/a/ Cameco Resources (CR) is providing written notification that Monitor Well IM-14 monitoring results showed it to be on excursion status on March 30, 2009. Ms. Pam Rothwell from WDEQ/LQD and Mr. Doug Mandeville from the NRC were notified by telephone on March 30, 2009.

Monitor Well IM-14 is on a bi-monthly sampling schedule. Analytical results of March 30, 2009 for the routine sample taken on March 27, 2009 indicated an exceedance in two of the three Upper Control Limits (UCLs). CR collected a confirmation sample from the well and analyzed it with a quality assurance duplicate on March 30, 2009. Results of the laboratory analyses confirmed the well to be on excursion as shown below.

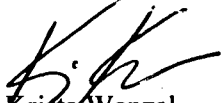
Sample Date	Chloride (mg/L)	Alkalinity (mg/L CaCO <sub>3</sub> )	Conductivity (µMhos/cm)
	UCL 17	UCL 211	UCL 928
3/30/08	18	226	742

Monitor Well IM-14 is located in Mine Unit I and depicted on the attached map. The excursion at Well IM-14 will be added to CR's site status map and included in the annual report.

The well will be sampled weekly to monitor UCLs. Injection wells in the vicinity of the excursion that have been shut off are depicted in blue on the attached map. Pumping rates in other nearby wells have also been reduced. CR is examining the balance and flows to optimize available well resources and is continuing to develop a groundwater flow model of the mine unit. Additionally, CR plans to examine the sampling pump rate and duration to assist in determining potential causes and corrective actions. The model can also be used to simulate optimal pumping and injection rates to prevent excursions.

If you have questions, please contact me at (307) 358-6541, Ext. 462.

Sincerely,



Krista Wenzel  
Manager, Environment, Health and Safety

Attachment: Map

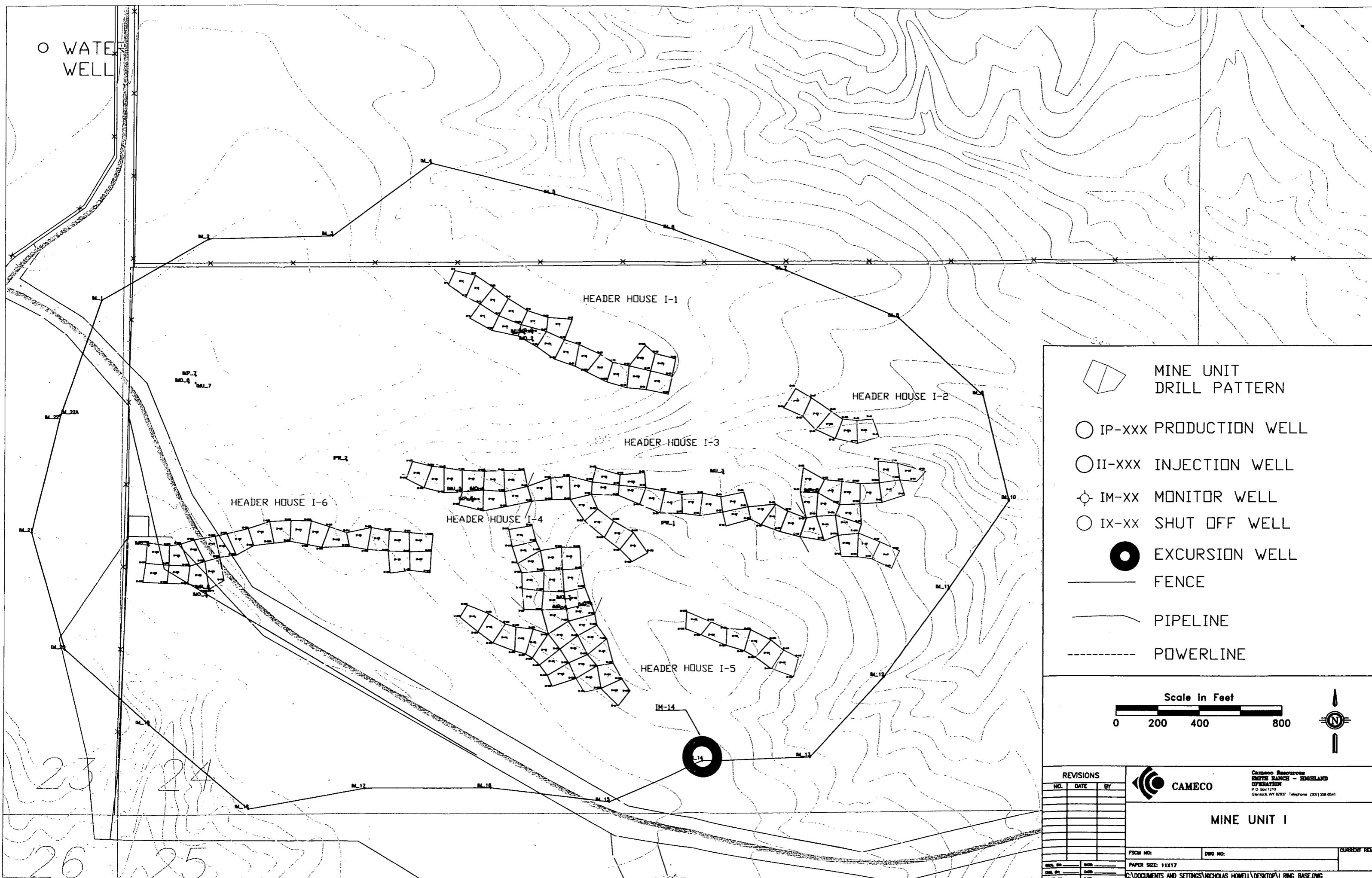
cc: T. Cannon  
T. Hewitt

S. Bakken  
D. Mandeville, USNRC (2 copies)

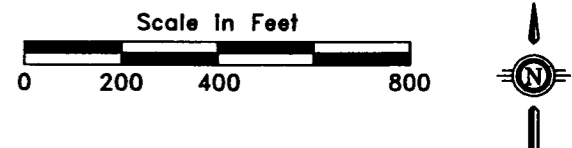
B. Johnson

File HUP 4.6.4.1

○ WATER WELL



- MINE UNIT DRILL PATTERN
- IP-XXX PRODUCTION WELL
- II-XXX INJECTION WELL
- IM-XX MONITOR WELL
- IX-XX SHUT OFF WELL
- EXCURSION WELL
- FENCE
- PIPELINE
- POWERLINE



REVISIONS		
NO.	DATE	BY

CAMECO

Cameco Resources  
SUTTE BLANCH - EDGECLAND  
OPERATION  
P.O. Box 1210  
Gardock, WY 82837 Telephone (307) 358-8541

**MINE UNIT I**

FSCM NO: \_\_\_\_\_ DWG NO: \_\_\_\_\_ CURRENT REV: \_\_\_\_\_

PAPER SIZE: 11X17

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