

**CAMECO RESOURCES  
CROW BUTTE OPERATION**



**86 Crow Butte Road  
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July 31, 2017

**USPS PRIORITY MAIL  
SIGNATURE CONFIRMATION**

40-8943

Attn: Document Control Desk, Director  
Office of Nuclear Material Safety and Safeguards  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555-0001

MIT Failure at P-5780, Wellhouse 64, Mine Unit 11

Dear Director:

On July 27, 2017, during routine 5-year Mechanical Integrity Testing (MIT), well number P-5780 in Mine Unit 11, Wellhouse 64 failed the MIT criteria at the Crow Butte Resources (CBR) mine site. Isolation procedures indicated that the failure was in the casing at the 430 to 434-foot level. Kory Winters, of the NDEQ Chadron field office, and Ron Burrows, NRC Project Manager, were notified concerning this well on July 28, 2017.

This well was last successfully mechanically integrity tested on August 9, 2012. This well was put into operation on July 15, 2013. The well casing depth is 860 feet with a K-packer set at 800 feet. The static water level in the adjacent shallow monitor SM11-15 is 152 feet deep.

Upon review of this data with the NDEQ staff, it was determined that the well will be repaired by installing a sleeve to cover the failed area. The well will then be re-MIT'd to ensure that the repair is sufficient. If CBR is unable to repair the well, then it will be abandoned according to approved procedure. Due to the depth of the failure it was determined that no other testing will be conducted.

A graph of the sampling results for the nearest Shallow Monitor Well, SM 11-15, is included for your review. This well is located 175 feet northwest of P-5780.

The letter is submitted in compliance with License Condition 11.6 of Source Materials License SUA-1534.

NM5520

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Document Control Desk, Director  
July 31, 2017  
Page 2

If there are any further questions or concerns feel free to contact me at (308) 665-2215 ext. 114.

Sincerely,

A handwritten signature in cursive script that reads "Larry Teahon".

Larry Teahon  
SHEQ Manager

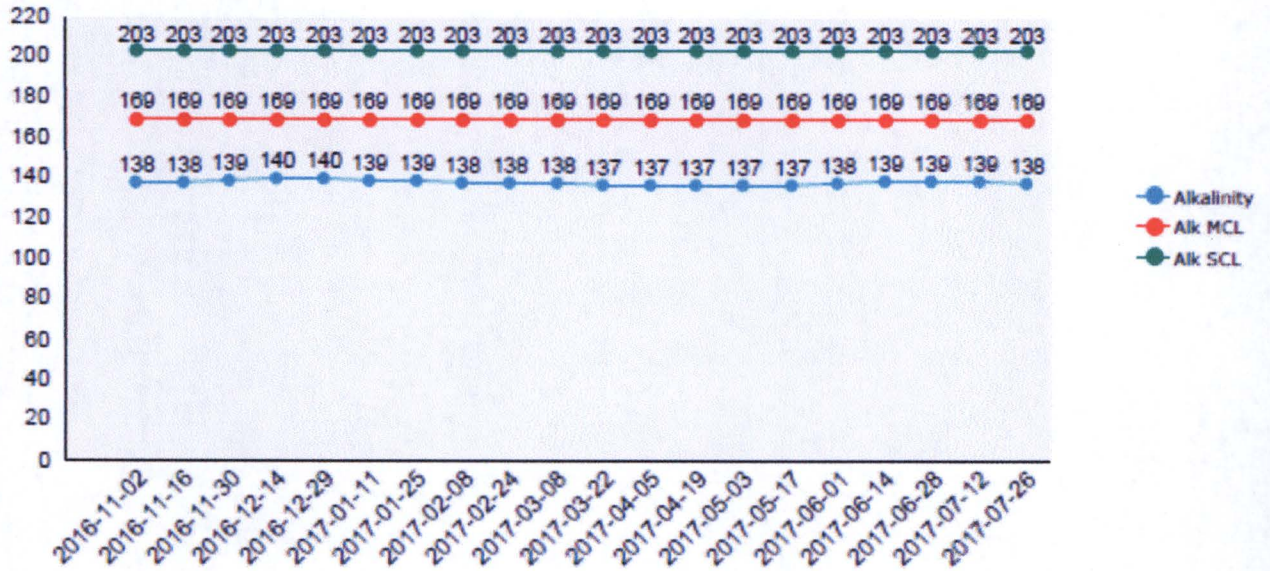
cc: Deputy Director  
Division of Decommissioning  
Uranium Recovery and Waste Programs  
Office of Nuclear Material Safety and Safeguards  
U.S. Nuclear Regulatory Commission  
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11545 Rockville Pike  
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CBO- File

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SM11-015

Alkalinity



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