

**CAMECO RESOURCES  
CROW BUTTE OPERATION**



**86 Crow Butte Road  
P.O. Box 169  
Crawford, Nebraska 69339-0169**

**(308) 665-2215  
(308) 665-2341 – FAX**

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April 22, 2016

**CERTIFIED MAIL  
RETURN RECEIPT REQUESTED**

Marty Link, Water Quality Division Administrator  
Nebraska Department of Environmental Quality  
PO Box 98922  
Lincoln, Nebraska 68509-8922

Dear Ms. Link:

On April 20, 2016, during routine 5-year Mechanical Integrity Testing (MIT), well number I-1133 in Mine Unit 5, Wellhouse 17 failed the MIT criteria at the Crow Butte Resources (CBR) mine site. Isolation procedures indicated that the failure was the casing joint at the 20-foot level. Dave Carlson, of the NDEQ Chadron field office, and Ron Burrows, NRC Project Manager, were notified concerning this well on April 21, 2016.

This well was last successfully mechanically integrity tested in June 2011. On March 4, 2013, this well was turned off and taken out of service. The well casing depth is 834 feet with a K-packer set at 802 feet. The static water level of the shallow monitor wells in this area is 50 to 75 feet deep.

Upon review of this data with Dave Carlson, it was determined that the well will be repaired by installing a sleeve to cover the failed joint. 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 shallow depth of the failed joint (20 feet), no other testing will be conducted.

A graph of the sampling results for the nearest Shallow Monitor Well, SM 5-18, is included for your review. This well is located 150 feet north of I-1133.

If you have any questions or concerns on this matter, please do not hesitate to call me at 308-665-2215 ext. 122.

Sincerely,

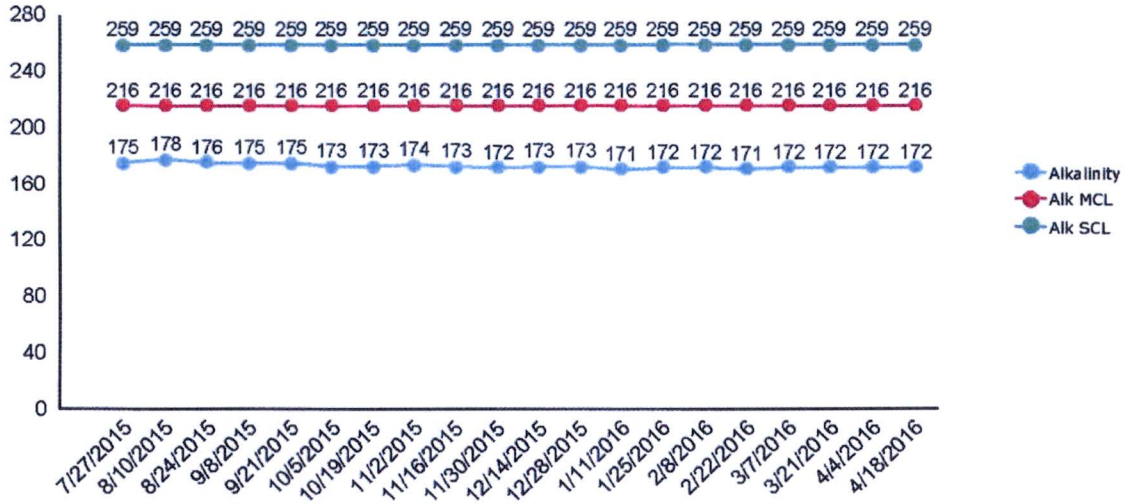
Bob Tiensvold  
Mine Manager

Enclosure

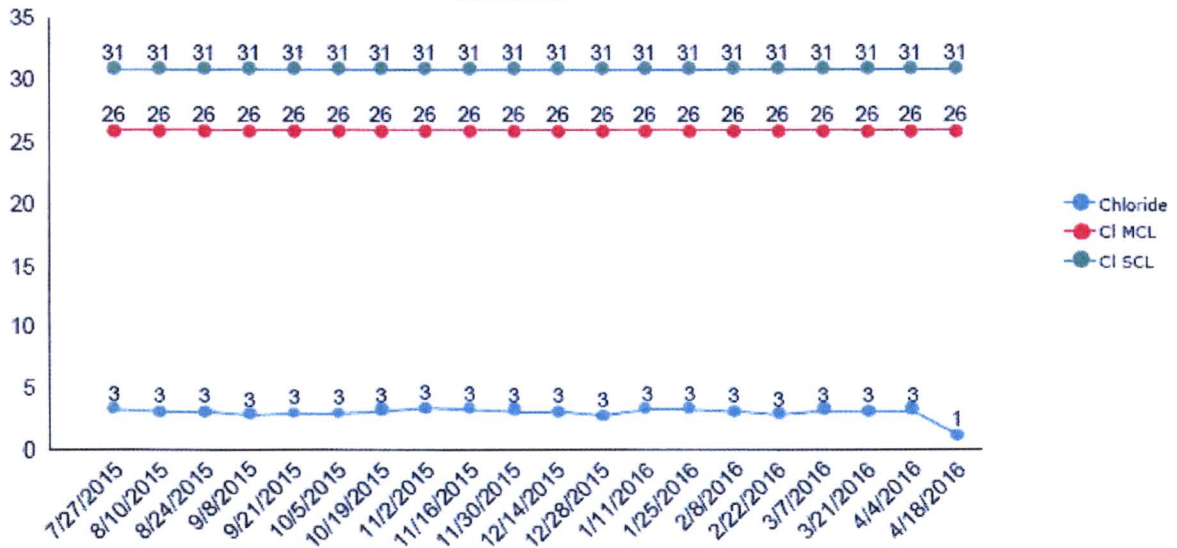
cc: **Ron Burrows - NRC**  
CBO – File  
Dave Carlson - NDEQ  
ec: Nancy Harris – NDEQ Program Coordinator  
CR – Casper

SM05-018

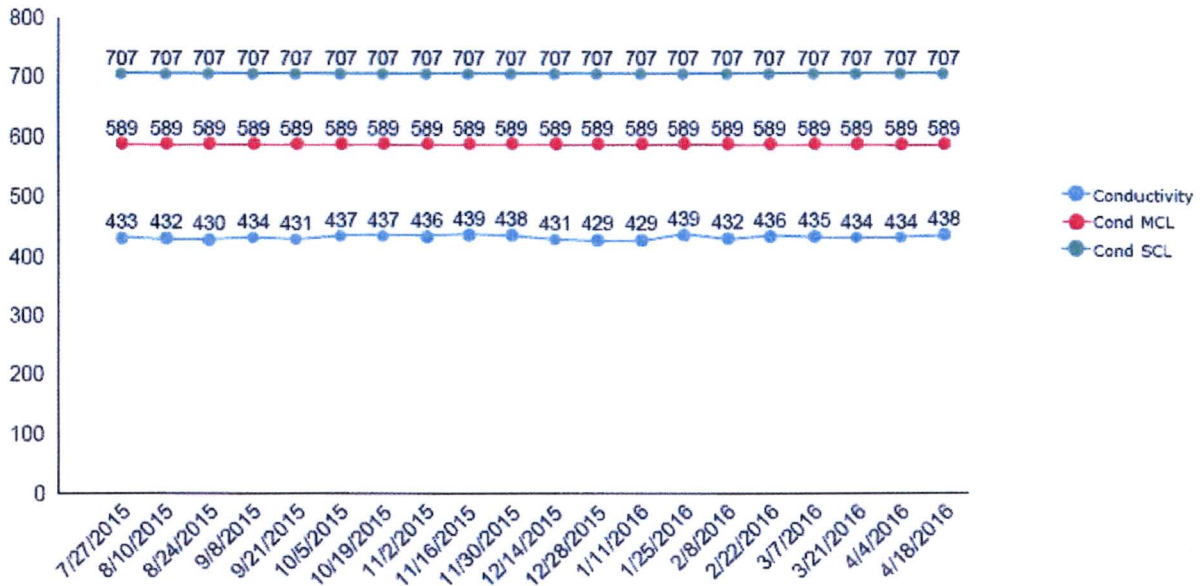
Alkalinity



Chloride



### Conductivity



### Water Level

