

**CAMECO RESOURCES
CROW BUTTE OPERATION**



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

**308-665-2215
308-665-2341 – FAX**

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

On June 20, 2016, a drill rig placed a 30 foot long PVC sleeve in the well with the top of the sleeve located at a depth of 10 feet below the top of the casing. The sleeve has a single K-packer rubber on the top and bottom of the sleeve.

The well was successfully re-integrity tested on June 20, 2016. A copy of the successful MIT is enclosed.

If you have any questions or concerns on this matter, please do not hesitate to call me at 308-665-2215 ext. 114.

Sincerely,

Larry Teahon
SHEQ Manager

Enclosure

cc: Ron Burrows - NRC
CBO - File
ec: Nancy Harris - NDEQ Program Coordinator
Kory Winters - NDEQ Field Office
CR - Casper



Nebraska Department of Environmental Quality

Casing Integrity Test Report

Company: Crow Butte

Permit No: NE0122611

Project: Crow Butte

Well No: 1133

Casing Type: Yelo-mine

Diameter: 4.5 in.

Hole Depth: 840 ft.

Casing Depth: 834 ft.

Screened Interval 1 Top: 813 ft.

Screened Interval 2 Top: ft.

Screened Interval 1 Bottom: 825 ft.

Screened Interval 2 Bottom: ft.

Screened Interval 3 Top: ft.

Screened Interval 4 Top: ft.

Screened Interval 3 Bottom: ft.

Screened Interval 4 Bottom: ft.

Depth to K-Packer: 802 ft.

Depth to Test Packer(s) Top: Ground Level ft.

Bottom: 793 ft.

Comments: 5 yr Retest

sleeve @ 10' to 40'

Time	Elapsed Time (Min)	Pressure (PSIG)
3:45	0	125
3:50	5	122
3:55	10	119
4:00	15	117
4:05	20	115

Well Tag ID Number: 1133

Test Performed By: Chris Klein

Date: 6-20-16

Calibration Performed By: CK

Date: 6-20-16

CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on inquiry of those individuals immediately responsible for obtaining information, I believe that the information is true, accurate, and complete. Further, I certify awareness that there are significant penalties for submitting false information, including the possibility of a fine and imprisonment.

By Robert Dunn

Senior Technician, Wellfield Operations

PRINTED NAME OF PERSON SIGNING

TITLE

By Robert Dunn

6-23-16

SIGNATURE

DATE