



October 25, 2017

CERTIFIED MAIL #7015 3010 0002 0309 9800

40-8964

Robin Jones, District 1 Supervisor
Land Quality Division
Wyoming Department of Environmental Quality
200 West 17th Street, Lower Level
Cheyenne, WY 82002

CAMECO RESOURCES
Smith Ranch-Highland
Operation
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82637 USA

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Release of Solutions Report, Mine Unit 4, Header House 4-3, Smith Ranch Highland Uranium Project, Permit 633, Cameco Resources

Dear Mr. Jones:

In accordance with Wyoming Department of Environmental Quality (WDEQ) regulation and the Nuclear Regulatory Commission (NRC) License SUA 1548, Power Resources, Inc. d/b/a Cameco Resources (Cameco) notified your office by voice mail, the WDEQ Emergency Response Coordinator Joe Hunter by voice mail, and Mr. Doug Mandeville of the NRC by voice mail on October 20, 2017, that a release occurred at the Smith Ranch-Highland Uranium Project in Converse County, Wyoming. The release was recorded in the WDEQ- Water Quality Division (WQD) Report a Spill or Release online database, Incident Id: 171023-0707 on October 23, 2017.

The release occurred in Mine Unit 4 at Header House 4-3. Cameco determined that the release had a volume of approximately 533 gallons and was restoration recovery fluid. The release was the result of a 6" PVC flange connection at the main PC header valve breaking free. Flow was shut down when the Satellite Operator noticed a pressure change and responded to the header house. The perimeter of the release was mapped. The release did not enter waters of the state and was contained inside the wellfield. The release was located in the NE ¼ of the SW ¼, in Section 34, T36N, R74W, of Converse County, Wyoming. A field map is attached showing location and extent of the release. The release will be updated into the site base map for inclusion in the Annual Report.

The restoration fluid was analyzed for uranium. The result of the analysis showed uranium content of 4.2 ppm. The released solution is not considered hazardous material under RCRA and is not reportable under SARA; the area is not considered hazardous. The release constitutes 11e2 Material as defined by the NRC "...tailings or wastes produced by the extraction or concentration of uranium or thorium from any ore processed primarily for its source material content." and is therefore regulated under the NRC. The release will be assessed at the time of decommissioning according to NRC rules and regulations. The site Radiation Health Physics staff will determine the radiological properties and potential impacts.

IE72
NM55

Please contact Ken Garoutte at 307-358-6541, ext. 476 or Kenneth_Garoutte@cameco.com if you have questions.

Respectfully,



Larry Reimann
Manager of Compliance and Licensing

LR/vg

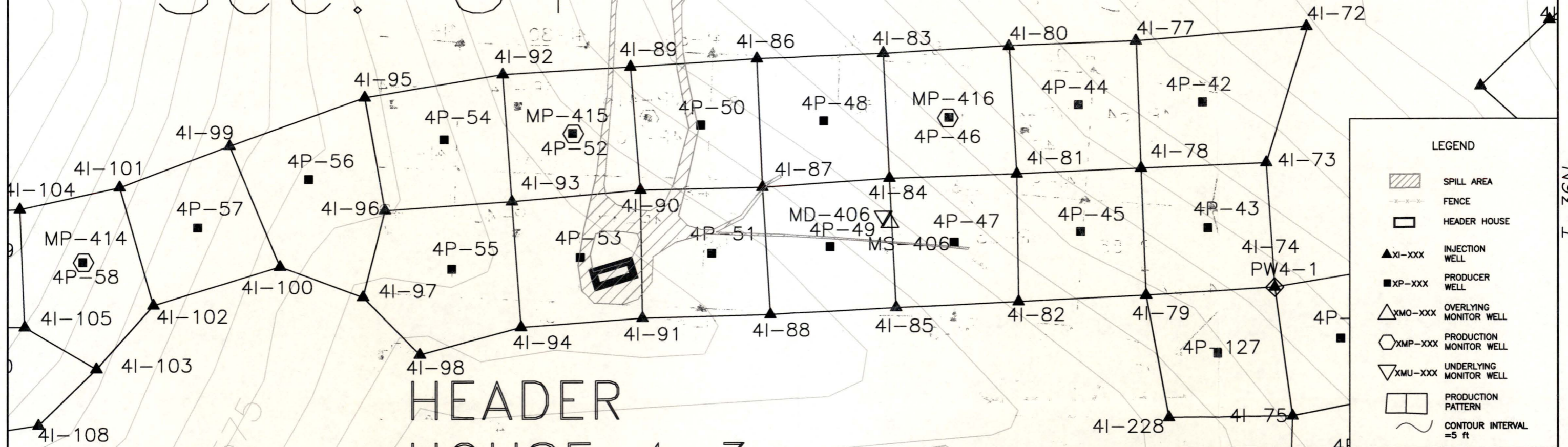
Attachments: Map

cc: File SR 4.3.3.1
Special Volume: Wellfield Release, Spill Reports
Mr. Doug Mandeville, NRC Certified Mail # 7015 3010 0002 0309 9831
Document Control Desk, NRC Certified Mail # 7015 3010 0002 0309 9824
Mr. Joe Hunter – Water Quality Division Certified Mail # 7015 3010 0002 0309 9817

ec: Cameco Distribution

Sec. 34

10/19/2017
 AREA OF RELEASE
 =8555 SQFT.



HEADER
 HOUSE 4-3

LEGEND

- SPILL AREA
- FENCE
- HEADER HOUSE
- INJECTION WELL
- PRODUCER WELL
- OVERLYING MONITOR WELL
- PRODUCTION MONITOR WELL
- UNDERLYING MONITOR WELL
- PRODUCTION PATTERN
- CONTOUR INTERVAL =5 ft

SCALE IN FEET

0 37.5 75 150

REVISIONS		
NO.	DATE	BY

Camco Resources
 SMITH RANCH - HIGHLAND
 OPERATION
 P.O. Box 1210
 Glenock, WV 26037 Telephone: (307) 358-6541

WELLFIELD 4
HEADER HOUSE 3 RELEASE
10/19/2017

PSDM NO: _____ DWG NO: _____ CURRENT REV: 0

PAPER SIZE: ANSI FULL BLEED B (17.00 X 11.00 INCHES)

DATE: 10/23/17 FILE: \SRH BASEMAP\SRH BASEMAP.DWG

R-74W

T-36N