

**CAMECO RESOURCES,
CROW BUTTE OPERATION**



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

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

August 11, 2011

**CERTIFIED MAIL
RETURN RECEIPT REQUESTED**

Mr. Michael Linder, Director
Nebraska Department of Environmental Quality
PO Box 98922
Lincoln, Nebraska 68509-8922

Subject: Exceedance of Well Head Manifold Pressure Limitations
Class III Underground Injection Control Permit NE0122611

Dear Mr. Linder:

Part II, Section A.1 of the referenced Class III Underground Injection Control (UIC) permit requires that Crow Butte Operation (CBO) maintain well head injection manifold pressure at a level not to exceed 100 PSIG. On August 9, 2011 at 4:15 a.m. MST, CBO was shutting down MU 10 wellhouses to tie-in a new trunkline. During this process, the trunkline injection pressure in Wellhouse 36 increased to 130 psi. The injection pressure reducing valve (PRV), which controls manifold pressure, failed causing manifold pressure to remain at this level for a period of 10 minutes.

When the pressure limitation was exceeded, the alarm in the wellhouse was triggered which alerted the Central Plant Control Room. Plant personnel were in the field near Wellhouse 36, and were able to respond immediately. An attempt was made to clean the PRV to relieve the pressure. When this failed to be effective, the wellhouse was taken off line causing the injection pressure to drop to zero. Due to the immediate response of plant personnel and the resulting short duration of the pressure exceedance, no apparent environmental damage resulted from this incident. Flow in the wellhouse at the time of the event was 80 GPM through ten injection wells. CBO mechanically integrity tested the ten injection wells that were affected and the tests show that there was no damage to the wells. (Copies of these tests are attached to this report).

**CAMECO RESOURCES,
CROW BUTTE OPERATION**



Mr. Michael Linder
August 11, 2011
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This incident will be investigated through the CBO corrective action process and corrective actions will be taken as appropriate.

Title 122 Chapter 21 Section 001.06 requires 24 hour telephone notification of a noncompliance with the permit conditions, followed by a written report in five days. General Manager Jim Stokey notified Mrs. Jennifer Coughlin of the pressure exceedance at 10:55 a.m. MST on August 9, 2011. Mr. Ron Burrows, Project Manager, for the Nuclear Regulatory Commission was notified by SHEQ Larry Teahon at 12:00 p.m. MST on August 9, 2011.

If you have any questions, please do not hesitate to call me at (308) 665-2215 ext 111.

Sincerely,
CAMECO RESOURCES
CROW BUTTE OPERATION

Jim Stokey
General Manager

Attachments

cc: U.S. Nuclear Regulatory Commission
Mr. Ron Burrows - ADDRESSEE ONLY
Fuel Cycle Licensing Branch
Mailstop T8-F5
Washington, DC 20555

Mr. Dave Carlson, NDEQ, Chadron Field Office

CBO-File

Ec: CR-Cheyenne



Nebraska Department
of Environmental Quality
Casing Integrity Test Report

Company: CBR Permit No: NE0122611
Project: Crowbutte Well No: 2936
Casing Type: White Certalok Diameter: 4 1/2"
Hole Depth: _____ Casing Depth: _____
Screened Interval(s): _____
Depth to K-Packer: 402 Depth to Test Packer(s) Top Ground Level
Comments: Bottom 393

TIME	ELAPSED TIME (Min)	PRESSURE (PSIG)
7:25	0	125
7:30	5	122
7:35	10	120
7:40	15	118
7:45	20	116

Test Performed By: Rich Purnell

Date: 8-10-11

Calibration Performed By: AD

Date: 8-8-11

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 _____
PRINTED NAME OF PERSON SIGNING

TITLE

By _____
SIGNATURE

DATE



Nebraska Department
of Environmental Quality
Casing Integrity Test Report

Company: CBR Permit No: NE0122611
Project: Crowbutte Well No: 3120
Casing Type: White Certalock Diameter: 4 1/2"
Hole Depth: _____ Casing Depth: _____
Screened Interval(s): _____
Depth to K-Packer: 394 Depth to Test Packer(s) Top - Ground Level
Comments: Bottom - 383

TIME	ELAPSED TIME (Min)	PRESSURE (PSIG)
8:55	0	125
9:00	5	124
9:05	10	122
9:10	15	120
9:15	20	119

Test Performed By: Rich Dunn

Date: 8-10-11

Calibration Performed By: RD

Date: 8-8-11

CERTIFICATION

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By _____
PRINTED NAME OF PERSON SIGNING

TITLE

By _____
SIGNATURE

DATE



Nebraska Department
of Environmental Quality
Casing Integrity Test Report

Company: CBR Permit No: NE0122611
Project: Crowbutte Well No: 3073
Casing Type: White Certalok Diameter: 4 1/2"
Hole Depth: _____ Casing Depth: _____
Screened Interval(s): _____
Depth to K-Packer: 389 Depth to Test Packer(s) Top - Ground Level
Comments: Bottom - 378'

TIME	ELAPSED TIME (Min)	PRESSURE (PSIG)
11:00	0	125
11:05	5	124
11:10	10	123
11:15	15	122
11:20	20	121

Test Performed By: Rich Dunn

Date: 8-10-11

Calibration Performed By: RF

Date: 8-8-11

CERTIFICATION

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By _____
PRINTED NAME OF PERSON SIGNING

TITLE

By _____
SIGNATURE

DATE



Nebraska Department
of Environmental Quality
Casing Integrity Test Report

Company: CBR Permit No: NE0122611
Project: Crowbutte Well No: 2874
Casing Type: White Certalok Diameter: 4 1/2"
Hole Depth: _____ Casing Depth: _____
Screened Interval(s): _____
Depth to K-Packer: 387 Depth to Test Packer(s) Top Ground Level
Comments: Bottom - 378

TIME	ELAPSED TIME (Min)	PRESSURE (PSIG)
12:55	0	125
1:00	5	124
1:05	10	122
1:10	15	121
1:15	20	119

Test Performed By: Rich Dunn

Date: 8-10-11

Calibration Performed By: RJ

Date: 8-8-11

CERTIFICATION

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By _____
PRINTED NAME OF PERSON SIGNING

TITLE

By _____
SIGNATURE

DATE



Nebraska Department
of Environmental Quality
Casing Integrity Test Report

Company: CBR Permit No: NE0122611
Project: Crow Butte Well No: 3125
Casing Type: White Diameter: 4.5
Hole Depth: _____ Casing Depth: _____
Screened Interval(s): _____
Depth to K-Packer: 380 Depth to Test Packer(s) Top Ground level
Comments: Bottom 373

TIME	ELAPSED TIME (Min)	PRESSURE (PSIG)
1:30	0	125
1:35	5	123
1:40	10	121
1:45	15	120
1:50	20	118

Test Performed By: Justin Didier

Date: 8-10-11

Calibration Performed By: JD

Date: 8-8-11

CERTIFICATION

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By _____
PRINTED NAME OF PERSON SIGNING

TITLE

By _____
SIGNATURE

DATE



Nebraska Department
of Environmental Quality
Casing Integrity Test Report

Company: CBR Permit No: NE0122611
Project: Crow Butte Well No: 3123
Casing Type: White Corrugated Diameter: 4.5
Hole Depth: _____ Casing Depth: _____
Screened Interval(s): _____
Depth to K-Packer: 384 Depth to Test Packer(s) Top ground level
Comments: Bottom 373

TIME	ELAPSED TIME (Min)	PRESSURE (PSIG)
11:10	0	125
11:15	5	123
11:20	10	121
11:25	15	119
11:30	20	118

Test Performed By: Justin Didier
Date: 8-10-11
Calibration Performed By: JM
Date: 8-8-11

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 _____
PRINTED NAME OF PERSON SIGNING TITLE
By _____
SIGNATURE DATE



Nebraska Department
of Environmental Quality
Casing Integrity Test Report

Company: CBR Permit No: NE0122611
Project: Crow Butte Well No: 4104
Casing Type: White Cerclite Diameter: 4.5
Hole Depth: _____ Casing Depth: _____
Screened Interval(s): _____
Depth to K-Packer: 352 Depth to Test Packer(s) Top Ground level
Comments: Bottom 343

TIME	ELAPSED TIME (Min)	PRESSURE (PSIG)
9:40	0	125
9:45	5	124
9:50	10	123
9:55	15	122
10:00	20	121

Test Performed By: Justin Didier

Date: 8-10-11

Calibration Performed By: JD

Date: 8-8-11

CERTIFICATION

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By _____
PRINTED NAME OF PERSON SIGNING

TITLE

By _____
SIGNATURE

DATE



Nebraska Department
of Environmental Quality
Casing Integrity Test Report

Company: CBQ Permit No: NE0122611
Project: CrowButte Well No: 3095
Casing Type: White Certiloks Diameter: 4.5
Hole Depth: _____ Casing Depth: _____
Screened Interval(s): _____
Depth to K-Packer: 371 Depth to Test Packer(s) Top ground level
Comments: Bottom 363

TIME	ELAPSED TIME (Min)	PRESSURE (PSIG)
7:50	0	125
7:55	5	123
8:00	10	121
8:05	15	119
8:10	20	118

Test Performed By: Justin Didier
Date: 8-10-11
Calibration Performed By: JD
Date: 8-8-11

CERTIFICATION

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By _____
PRINTED NAME OF PERSON SIGNING TITLE
By _____
SIGNATURE DATE



Nebraska Department
of Environmental Quality
Casing Integrity Test Report

Company: C.B.R. Permit No: NE 0122611
Project: CROW Butte Well No: 30 84
Casing Type: WHITE CERTALOK Diameter: 4 1/2"
Hole Depth: _____ Casing Depth: _____
Screened Interval(s): _____
Depth to K-Packer: 385' Depth to Test Packer(s) Top of Round HOLE
Bottom - 373'
Comments: _____

TIME	ELAPSED TIME (Min)	PRESSURE (PSIG)
7:50	0	125
7:55	5	124
8:00	10	123
8:05	15	121
8:10	20	120

Test Performed By: [Signature]
Date: 8-10-11
Calibration Performed By: [Signature]
Date: 8-8-11

CERTIFICATION

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By _____
PRINTED NAME OF PERSON SIGNING TITLE
By _____
SIGNATURE DATE



Nebraska Department
of Environmental Quality
Casing Integrity Test Report

Company: CBR Permit No: NE0122611
Project: Crowbutte Well No: 3092
Casing Type: White Certalok Diameter: 4 1/2"
Hole Depth: _____ Casing Depth: _____
Screened Interval(s): _____
Depth to K-Packer: 391 Depth to Test Packer(s): Top Ground Level
Comments: Bottom - 383

TIME	ELAPSED TIME (Min)	PRESSURE (PSIG)
7:40	0	125
7:45	5	124
7:50	10	124
7:55	15	123
8:00	20	122

Test Performed By: Rich J. [Signature]

Date: 8-11-11

Calibration Performed By: [Signature]

Date: 8-8-11

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 _____
PRINTED NAME OF PERSON SIGNING

TITLE

By _____
SIGNATURE

DATE