John Kieling, Bureau Chief
Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Drive East, Building 1
Santa Fe, NM 87505-6303

Subject: Fact Sheets for CrEX-2

Dear Mr. Kieling:

Enclosed please find two hard copies with electronic files of the Fact Sheets for CrEX-2.
CrEX-2 was completed on May 1, 2017.

Extraction well CrEX-2 was installed under the Drilling Work Plan for Groundwater Extraction
Well CrEX-2, approved by the New Mexico Environment Department (NMED) on
February 20, 2017. The well completion report will be submitted 150 days after the NMED-
complete date of May 1, 2017.

If you have any questions, please contact Stephani Swickley at (505) 606-1628 (sfuller@lanl.gov)
or Cheryl Rodriguez at (505) 665-5330 (cheryl.rodriguez@em.doe.gov).

Sincerely,

Bruce Robinson, Program Director
Environmental Remediation Program
Los Alamos National Laboratory

Sincerely,

David S. Rhodes, Director
Office of Quality and Regulatory Compliance
Los Alamos Environmental Management Field Office
Enclosures: Two hard copies with electronic files – Fact Sheets for CrEX-2 (EP2017-0090)

Cy: (w/enc.)
Cheryl Rodriguez, DOE-EM-LA
Stephani Swickley, ADEM ER Program

Cy: (w/electronic enc.)
Laurie King, EPA Region 6, Dallas, TX
Raymond Martinez, San Ildefonso Pueblo
Dino Chavarria, Santa Clara Pueblo
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Ted Ball, ADEM ER Program
Steve White, ADEM ER Program
Public Reading Room (EPRR)
ADESH Records
PRS Database

Cy: (w/o enc./date-stamped letter emailed)
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Peter Maggiore, DOE-NA-LA
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David Rhodes, DOE-EM-LA
Bruce Robinson, ADEM ER Program
Randy Erickson, ADEM
Jocelyn Buckley, ADES-EPC-CP
Mike Saladen, ADES-EPC-CP
John Bretzke, ADES-EPC-DO
Michael Brandt, ADES
William Mairson, PADOPS
Craig Leasure, PADOPS
TOTAL LENGTH
OF CASING AND SCREEN (FT) 1192.7

DEPTH TO WATER
_FOLLOWING INSTALLATION (FT BGS) 1113.7 (05/06/17)

DIAMETER OF BOREHOLE
18.00 (IN) FROM 0 TO 55 (FT BGS)
17.00 (IN) FROM 55 TO 920 (FT BGS)
15.00 (IN) FROM 920 TO 1201.5 (FT BGS)
10.75 (IN) FROM 1201.5 TO 1240 (FT BGS)

SURFACE SEAL 10.0 TO 60.1 (FT BGS)
BENTONITE SEAL 60.1 TO 1122.9 (FT BGS)

TYPE OF CASING
MATERIAL PASSIVATED A304 STAINLESS STEEL
ID (IN) 8.00  OD (IN) 8.625 (8%)
JOINT TYPE WELDED

ELEVATIONS (FT AMSL)
WELL CASING TBD
GROUND SURFACE TBD
BRASS CAP (MARKER) TBD

HYDRATED BENTONITE SEAL
FORM ⅛-IN BENTONITE CHIP
QUANTITY USED 1618.3 FT³ CALC 1185.2 FT³

FLOOR SURFACE (FT BGS)
-
BASE OF CASING 1184.7 (FT BGS)
BENTONITE 1185.5 TO 1198.6 (FT BGS)
FILTER PACK SAND 1198.6 TO 1240.0 (FT BGS)
BOTTOM OF BORING 1240.0 (FT BGS)

SLOUGH AND SAND 1198.6 TO 1240.0 (FT BGS)

FILTER PACK SAND
SIZE/TYPE 20/40 SILICA
QUANTITY USED 1.3 FT³ CALC 1.7 FT³

HYDRATED BENTONITE BACKFILL
MATERIAL ⅛-IN BENTONITE CHIP and ⅛-IN BENTONITE PELLET
QUANTITY USED 15.9 FT³ CALC 14.2 FT³

STAINLESS-STEEL CENTRALIZERS
USED 4 ea. AT 5 FT
ABOVE AND BELOW WELL SCREEN

WELL COMPLETION BEGAN
DATE 04/13/17  TIME 1400h
WELL COMPLETION FINISHED
DATE 05/01/17  TIME 1500h

FACT SHEET
June 2017
LA-UR-17-24262

Well CrEX-2 As-Built Well Construction Diagram
Technical Area 05 (TA-05)
Los Alamos National Laboratory
Los Alamos, New Mexico
**Well Summary Data Sheet**

**CrEX-2 Borehole Stratigraphy**

Technical Area 05 (TA-05)
Los Alamos National Laboratory
Los Alamos, New Mexico

**Not to Scale**

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**Drilling Information**

**Drilling Company/Personnel:**
Holt Services
D. Sandy, T. Mecham, M. McCoy

**Drill Rig:**
Foremost DR-24HD

**Drilling Method:**
- 0–1240 ft bgs: DUAL ROTARY WITH CASING ADVANCE

**Drilling Fluid Type:**
- 0–1240 ft bgs: AIR, WATER, AQF-2 FOAMING AGENT, EZ-MUD POLYMER

**Drilling Start/Finish:**
- **DATE: 03/05/17 20:00**
- **DATE: 04/12/17 16:00**

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**Diagram:**

- **Tshirege Member Unit 1v**
- **Cerro Toledo Interval**
- **Otowi Member**
- **Guaje Pumice Bed**
- **Cerro del Rio Basalt**
- **Puye Formation**
- **Transitional Puye Formation**
- **1112.6 ft (04/11/17)** (prior to well installation)

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**Los Alamos National Laboratory**

June 2017

LA-UR-17-24262