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Date: JUN 01 2017
Refer To: ADEM-17-0130
LAUR: 17-24262
Locates Action No.: n/a

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



BR/DR/SS:sm

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.)
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Public Reading Room (EPRR)
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Cy: (w/o enc./date-stamped letter emailed)
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Mike Saladen, ADESH-EPC-CP
John Bretzke, ADESH-EPC-DO
Michael Brandt, ADESH
William Mairson, PADOPS
Craig Leasure, PADOPS

TOTAL LENGTH OF CASING AND SCREEN (FT) 1192.2
 DEPTH TO WATER FOLLOWING INSTALLATION (FT BGS) 1113.7 (05/06/17)

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

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)

SURFACE SEAL
 MIX (WT%) PORTLAND CEMENT 100
 QUANTITY USED 77.5 FT³ CALC 68.2 FT³

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

HYDRATED BENTONITE SEAL
 FORM 3/8-IN BENTONITE CHIP
 QUANTITY USED 1618.3 FT³ CALC 1185.2 FT³

FINE SAND COLLAR 1122.9 TO 1125.0 (FT BGS)

FINE SAND COLLAR
 SIZE/TYPE 20/40 SILICA
 QUANTITY USED 1.3 FT³ CALC 1.7 FT³

FILTER PACK 1125.0 TO 1185.5 (FT BGS)

FILTER PACK SAND
 SIZE/TYPE 10/20 SILICA
 QUANTITY USED 44.7 FT³ CALC 49.7 FT³

SCREENED INTERVAL 1129.9 TO 1179.9 (FT BGS)

TYPE OF SCREEN(S)
 MATERIAL A304 STAINLESS STEEL
 ID (IN) 8.00 OD (IN) 8.625
 SLOT SIZE (IN) 0.040
 JOINT TYPE WELDED

BOTTOM OF CASING 1189.7 (FT BGS)

HYDRATED BENTONITE BACKFILL
 MATERIAL 3/8-IN BENTONITE CHIP and 1/4-IN BENTONITE PELLET
 QUANTITY USED 15.9 FT³ CALC 14.2 FT³

BENTONITE 1185.5 TO 1198.6 (FT BGS)

14-IN CSG AND SHOE 1198.2 TO 1201.5 (FT BGS)

SLOUGH AND SAND 1198.6 TO 1240.0 (FT BGS)

10-IN CSG AND SHOE 1233.9 TO 1240.0 (FT BGS)

BOTTOM OF BORING 1240.0 (FT BGS)

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

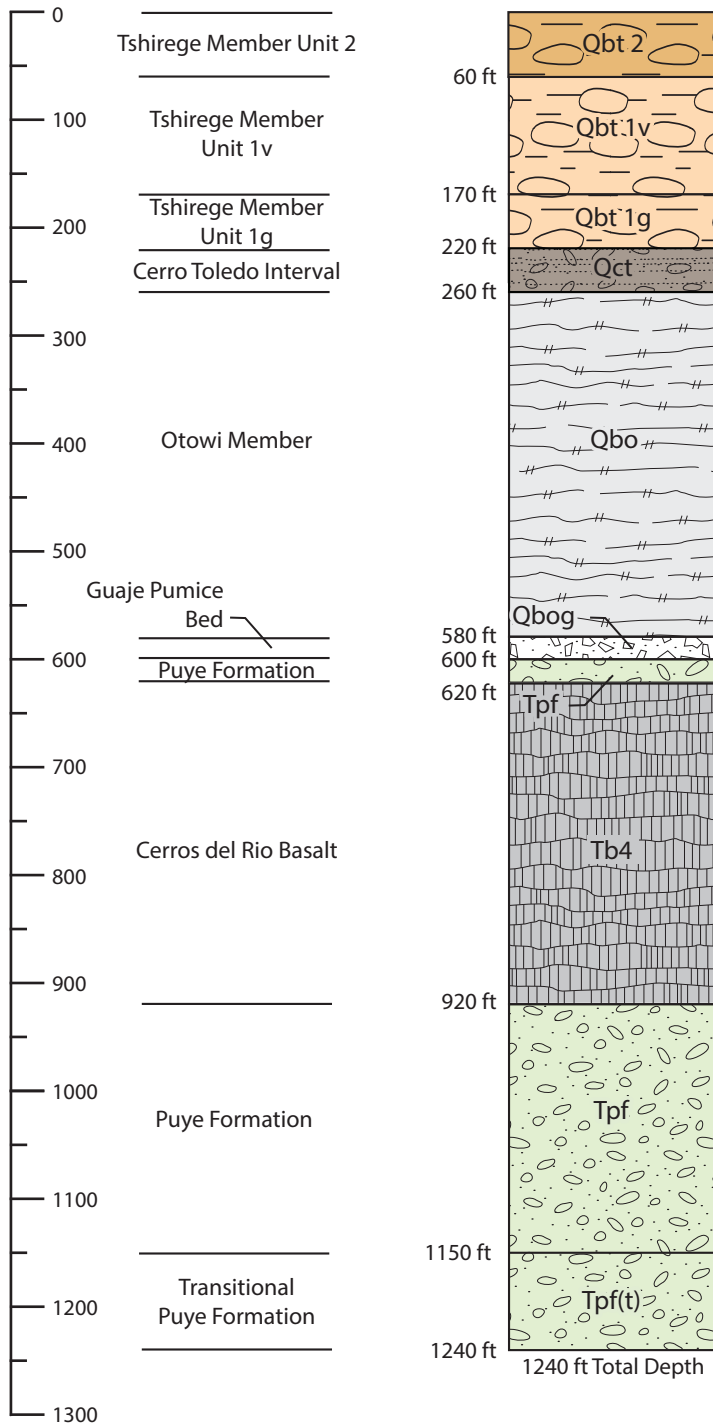
WELL COMPLETION BEGAN
 DATE 04/13/17 TIME 1400h
 WELL COMPLETION FINISHED
 DATE 05/01/17 TIME 1500h



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

Fact Sheet
 NOT TO SCALE

DEPTH
(LINEAR FT)



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

▼ 1112.6 ft (04/11/17)
(prior to well installation)



Well Summary Data Sheet
CrEX-2 Borehole Stratigraphy
Technical Area 05 (TA-05)
Los Alamos National Laboratory
Los Alamos, New Mexico

Fact Sheet
NOT TO SCALE