

**Associate Director for ESH**

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**Environmental Management**

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Date: MAY 04 2016

Refer To: ADESH-16-066

LAUR: 16-22897

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: Submittal of the Fact Sheets for CrEX-3**

Dear Mr. Kieling:

Enclosed please find two hard copies with electronic files of the Fact Sheets for CrEX-3. This submittal satisfies requirement Section IV.A.3.e.iv, Well Completion, of the Compliance Order on Consent that a well summary fact sheet be submitted within 30 days of completion of each regional aquifer well. CrEX-3 was completed on April 11, 2016. The well completion report for CrEX-3 will be submitted on or before September 11, 2016.

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
Environmental Management
Los Alamos Field Office

BR/DR/SS:sm

Enclosures: Two hard copies with electronic files – Fact Sheets for CrEX-3

Cy: (w/enc.)
Cheryl Rodriguez, DOE-EM-LA, MS A316
Stephani Swickley, ADEM ER Program, MS M992

Cy: (w/electronic enc.)
Laurie King, EPA Region 6, Dallas, TX
Raymond Martinez, San Ildefonso Pueblo
Dino Chavarria, Santa Clara Pueblo
Steve Yanicak, NMED-DOE-OB, MS M894
emla.docs@em.doe.gov
Steve White, ADEP ER Program (w/ MS Word files on CD)
Ted Ball, ADEP ER Program
Danny Katzman, ADEP ER Program
Public Reading Room (EPRR)
ADESH Records
PRS Database

Cy: (w/o enc./date-stamped letter emailed)
lasomailbox@nnsa.doe.gov
Peter Maggiore, DOE-NA-LA
Kimberly Davis Lebak, DOE-NA-LA
David Rhodes, DOE-EM-LA
Bruce Robinson, ADEM ER Program
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Jocelyn Buckley, ADESH-EPC-CP
Mike Saladen, ADESH-EPC-CP
John McCann, ADESH-EPC-DO
Michael Brandt, ADESH
William Mairson, PADOPS
Craig Leasure, PADOPS

TOTAL LENGTH
OF CASING AND SCREEN (FT) 961.1
DEPTH TO WATER
FOLLOWING INSTALLATION (FT BGS) 898.5 (04/19/16)

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

DIAMETER OF BOREHOLE
24.00 (IN) FROM 0 TO 60 (FT BGS)
18.00 (IN) FROM 60 TO 328 (FT BGS)
17.00 (IN) FROM 328 TO 695 (FT BGS)
15.00 (IN) FROM 695 TO 1004.5 (FT BGS)

SURFACE SEAL 8.0 TO 59.5 (FT BGS)

20-IN CSG 0 TO 60 (FT BGS)

SURFACE SEAL
MIX (WT%) PORTLAND CEMENT 92 BENTONITE 8
QUANTITY USED 86.7 FT³ CALC 83.1 FT³

BENTONITE SEAL 59.5 TO 899.5 (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 767.2 FT³ CALC 900.6 FT³

14-IN CASING 182 TO 748 (FT BGS)

FINE SAND COLLAR 899.5 TO 901.5 (FT BGS)

FINE SAND COLLAR
SIZE/TYPE 20/40 SILICA
QUANTITY USED 3.0 FT³ CALC 1.6 FT³

FILTER PACK 901.5 TO 956.3 (FT BGS)

FILTER PACK SAND
SIZE/TYPE 10/20 SILICA
QUANTITY USED 53.5 FT³ CALC 45.0 FT³

SCREENED INTERVAL 909.6 TO 948.8 (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 958.7 (FT BGS)

BENTONITE 956.3 TO 975.0 (FT BGS)

HYDRATED BENTONITE BACKFILL
MATERIAL 1/4-IN BENTONITE PELLETS
QUANTITY USED 20.1 FT³ CALC 22.0 FT³

SLOUGH 975.0 TO 1004.5 (FT BGS)

BOTTOM OF BORING 1004.5 (FT BGS)

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

WELL COMPLETION BEGAN
DATE 04/03/16 TIME 0930h
WELL COMPLETION FINISHED
DATE 04/11/16 TIME 1230h

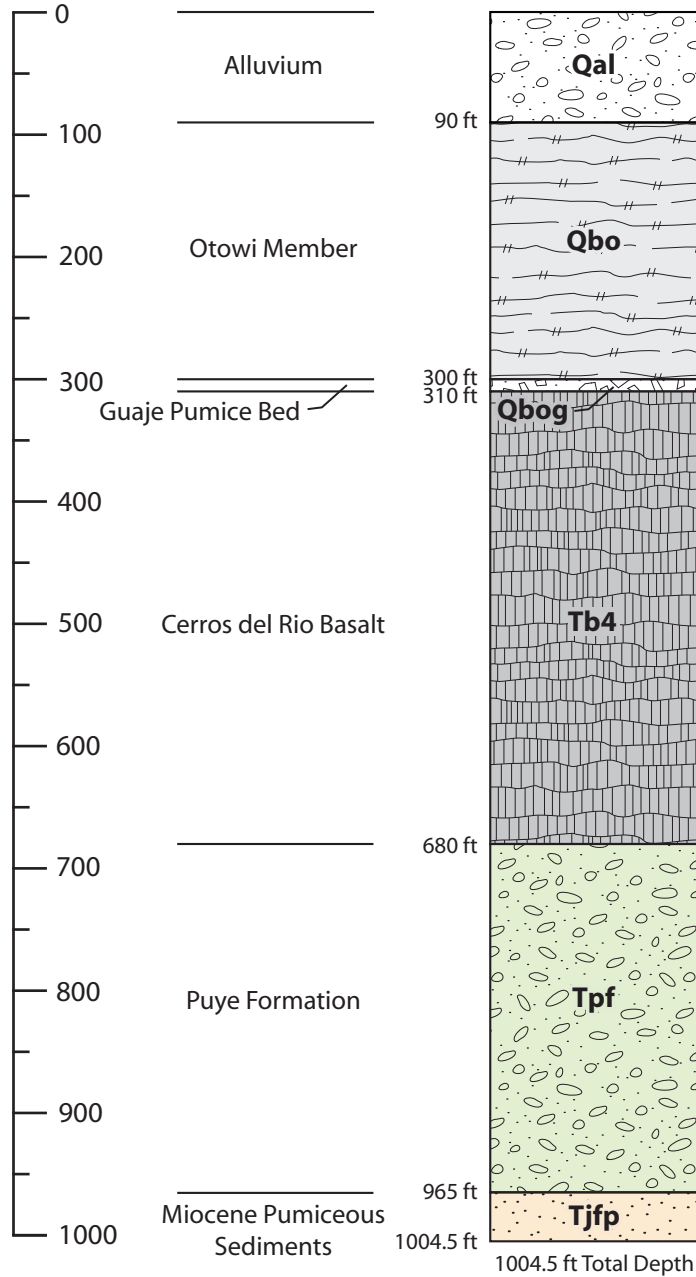


Drafted By: PTM
Date: April 27, 2016
File Name: CrEX-3_AsBuiltDiagram_FactSheet

Well CrEX-3 As-Built Well Construction Diagram
Technical Area 05 (TA-05)
Los Alamos National Laboratory
Los Alamos, New Mexico

Fact Sheet
NOT TO SCALE

DEPTH (FT BGS)



DRILLING INFORMATION

DRILLING COMPANY/PERSONNEL:

Yellow Jacket Drilling
A. Lamon, S. Jorge, E. Johnson

DRILL RIG:

Foremost DR-24HD

DRILLING METHOD:

☒ 0–1004.5 ft bgs: DUAL ROTARY WITH CASING
ADVANCE USING AIR, WATER, AND FOAM

DRILLING FLUID TYPE:

0–1004.5 ft bgs
AIR, WATER, AQF-2 FOAMING AGENT

DRILLING START/FINISH:

DATE: 02/17/2016
DATE: 03/19/2016

▼ 901.0 ft bgs (03/19/16)
(prior to well installation)



Prepared By: PTM
Date: April 27, 2016
File Name: CrEX-3_Lithology_FactSheet

Well Summary Data Sheet
CrEX-3 Borehole Stratigraphy
Technical Area 05 (TA-05)
Los Alamos National Laboratory
Los Alamos, New Mexico

Fact Sheet
NOT TO SCALE