



Associate Director for ESH
Environment, Safety, and Health
P.O. Box 1663, MS K491
Los Alamos, New Mexico 87545
505-667-4218/Fax 505-665-3811

DS
RECEIVED

DEC 1st 2014

**NMED
Hazardous Waste Bureau**



National Nuclear Security Administration
Los Alamos Field Office, MS A316
Environmental Projects Office
Los Alamos, New Mexico 87544
(505) 667-4255/FAX (505) 606-2132

Date: DEC 10 2014

Refer To: ADESH-14-129

LAUR: 14-28995

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 Chromium Corehole 1

Dear Mr. Kieling:

Enclosed please find two hard copies with electronic files of the fact sheets for chromium corehole 1 (CrCH-1). This corehole is the first of six to be completed as part of the New Mexico Environment Department- (NMED-) approved Drilling Work Plan for Chromium Project Coreholes. The attached completion details reflect the corehole-specific NMED-approved work plan design.

If you have any questions, please contact Stephani Swickley at (505) 606-1628 (sfuller@lanl.gov) or Hai Shen at (505) 665-5046 (hai.shen@nnsa.doe.gov).

Sincerely,

Michael T. Brandt, DrPH, CIH, Associate Director
Environment, Safety, and Health
Los Alamos National Laboratory

Sincerely,

Peter Maggiore, Assistant Manager
Environmental Projects Office
Los Alamos Field Office



TOTAL LENGTH
OF CASING AND SCREEN (FT) 1141.6
DEPTH TO WATER
FOLLOWING INSTALLATION (FT BGS) 1118.0 (11/8/14)

DIAMETER OF BOREHOLE
20.00 (IN) FROM 0.0 TO 60.0 (FT BGS)
12.00 (IN) FROM 60.0 TO 585.0 (FT BGS)
10.00 (IN) FROM 585.0 TO 905.0 (FT BGS)
6.00 (IN) FROM 905.5 TO 1158.0 (FT BGS)

SURFACE COMPLETION (proposed)
PROTECTIVE CASING
TYPE STEEL SIZE (IN) 16
PROTECTIVE POSTS INSTALLED YES
SURFACE SEAL AND PAD
CHECK FOR SETTLEMENT YES
PAD MATERIAL CONCRETE
REINFORCED WIRE MESH
PAD DIMENSIONS (FT) 10 (L) 10 (W) 0.5 (H)

SURFACE SEAL 4.0 TO 61.0 (FT BGS)

BENTONITE SEAL 61.0 TO 1115.5 (FT BGS)

FINE SAND COLLAR 1115.5 TO 1117.5 (FT BGS)

FILTER PACK 1117.5 TO 1145.0 (FT BGS)

SCREENED INTERVAL 1122.9 TO 1132.9 (FT BGS)

BOTTOM OF CASING 1138.0 (FT BGS)

SLOUGH 1145.0 TO 1158.0 (FT BGS)

BOTTOM OF BORING 1158.0 (FT BGS)

LOCKING COVER

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

SLOPED CONCRETE PAD/
SURFACE SEAL

16-IN CSG 0 TO 60 (FT BGS)

SURFACE SEAL
MIX (WT%) PORTLAND CEMENT 92 BENTONITE 8
QUANTITY USED 79.0 FT³ CALC 77.8 FT³

TYPE OF CASING
MATERIAL PASSIVATED A304 STAINLESS STEEL
ID (IN) 2.00
JOINT TYPE THREADED

12-IN CSG/SHOE 580.0 TO 585.0 (FT BGS)

HYDRATED BENTONITE SEAL
FORM 3/8-IN BENTONITE CHIP
QUANTITY USED 743.4 FT³ CALC 596.9 FT³

10-IN CSG/SHOE 866.0 TO 886.0 (FT BGS)

TYPE OF SCREEN(S)
MATERIAL A304 STAINLESS STEEL
ID (IN) 2.00
SLOT SIZE (IN) 0.040
JOINT TYPE THREADED

FINE SAND COLLAR
SIZE/TYPE 20/40 SILICA
QUANTITY USED 1.3 FT³ CALC 0.3 FT³

FILTER PACK SAND
SIZE/TYPE 10/20 SILICA
QUANTITY USED 10.0 FT³ CALC 4.8 FT³

STAINLESS-STEEL CENTRALIZERS
USED YES
ABOVE AND BELOW SCREEN AND
EVERY 40 FT FROM SCREEN TO 102 FT BGS

WELL COMPLETION BEGAN
DATE 10/25/14 TIME 1515h
WELL COMPLETION FINISHED
DATE 11/08/14 TIME 1900h

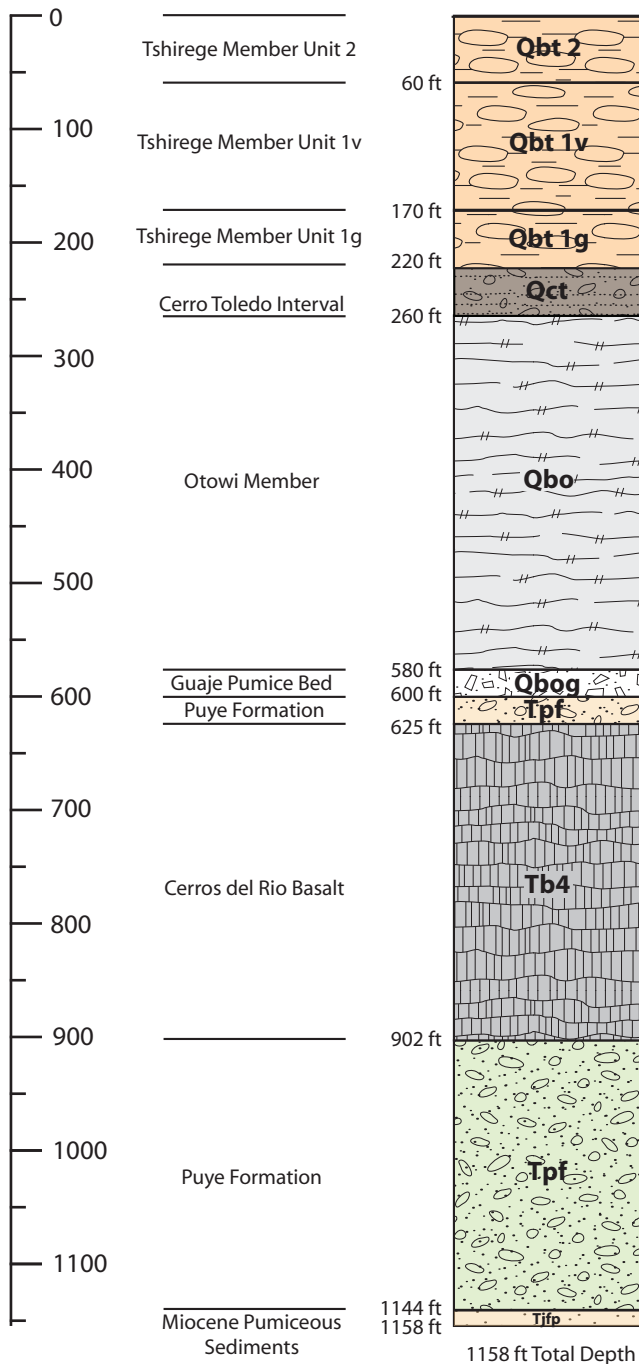


Drafted By: PTM
Date: December 2, 2014
File Name: CrCH-1_AsBuiltDiagram_FactSheet

Well CrCH-1 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. Adams, A. Lamon, S. Walker, J. Saldana,
S. Jorge, M. Williams, C. Hillman

DRILL RIGS:

0–944 ft bgs: Foremost DR-24HD
944–1158 ft bgs: Terrasonics 150T

DRILLING METHOD:

- ☒ 0–944 ft bgs: DUAL ROTARY WITH CASING ADVANCE USING AIR AND WATER
- ☒ 944–1158 ft bgs: SONIC CORING WITH CASING ADVANCE

DRILLING FLUID TYPE:

- | | |
|---|---|
| 0–944 ft bgs | 944–1158 ft bgs |
| <input checked="" type="checkbox"/> WATER | <input checked="" type="checkbox"/> NONE DURING CORING; |
| <input checked="" type="checkbox"/> AIR | WATER USED TO REMOVE |
| <input checked="" type="checkbox"/> AQF-2 FOAMING AGENT | SLOUGH BETWEEN CORE RUNS |

DRILLING START/FINISH:

DATE: 08/19/2014
DATE: 10/13/2014

▼ 1114 ft bgs (10/14/14)
(in corehole prior to
well installation)



Prepared By: GW and DB
Date: December 2, 2014
File Name: CrCH-1_Lithology_FactSheet

Well Summary Data Sheet
CrCH-1 Borehole Stratigraphy
Technical Area 05 (TA-05)
Los Alamos National Laboratory
Los Alamos, New Mexico

Fact Sheet
NOT TO SCALE