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*Date:* JUL 27 2017  
*Refer To:* ADEM-17-0183  
*LAUR:* 17-26092  
*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 CrIN-6**

Dear Mr. Kieling:

Enclosed please find two hard copies with electronic files of the fact sheets for injection well CrIN-6. Injection well CrIN-6 was completed on July 2, 2017. CrIN-6 was installed under the December 2016 Drilling Work Plan for Groundwater Injection Well CrIN-6, which was approved by the New Mexico Environment Department (NMED) on January 4, 2017. The well completion report for injection well CrIN-6 will be submitted to NMED by September 30, 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,

Sincerely,

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

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 CrIN-6 (EP2017-0103)

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  
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Steve White, ADEP ER Program (w/ MS Word files on CD)  
Danny Katzman, ADEP ER Program  
Public Reading Room (EPRR)  
ADESH Records  
PRS Database

Cy: (w/o enc./date-stamped letter emailed)  
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Randy Erickson, ADEM  
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John Bretzke, ADESH-EPC-DO  
Michael Brandt, ADESH  
William Mairson, PADOPS  
Craig Leasure, PADOPS

TOTAL LENGTH  
OF CASING AND SCREEN (FT) 1062.9

ANGLED WELL DRILLED  
25° FROM VERTICAL

ELEVATIONS (FT AMSL)  
WELL CASING 6706.03  
PROTECTIVE CASING TBD  
GROUND SURFACE 6704.52  
BRASS CAP (MARKER) TBD

FEET = LINEAR FEET

DEPTH TO WATER  
FOLLOWING INSTALLATION (FT) 966.5 (07/13/17)

DIAMETER OF BOREHOLE  
20.00 (IN) FROM 0 TO 36 (FT)  
18.00 (IN) FROM 36 TO 319 (FT)  
16.00 (IN) FROM 319 TO 754 (FT)  
15.00 (IN) FROM 754 TO 1096.6 (FT)

SURFACE SEAL 6.0 TO 60.1 (FT)

BENTONITE SEAL 60.1 TO 875.4 (FT)

FINE SAND COLLAR 875.4 TO 880.3 (FT)

FILTER PACK 880.3 TO 1045.2 (FT)

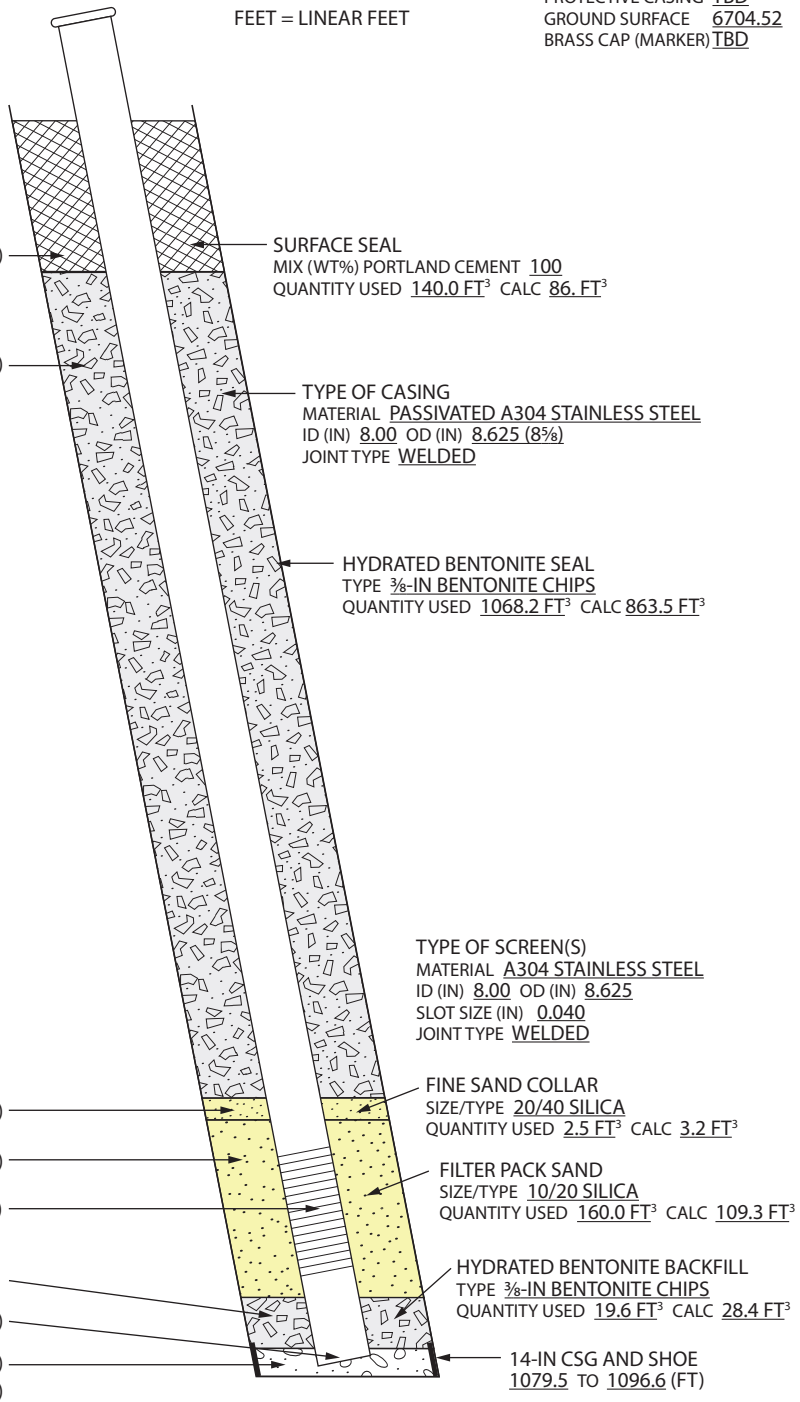
SCREENED INTERVAL 980.0 TO 1040.0 (FT)

BENTONITE 1045.2 TO 1077.9 (FT)

BOTTOM OF CASING 1061.3 (FT)

SLOUGH 1077.9 TO 1096.6 (FT)

BOTTOM OF BORING 1096.6 (FT)



SURFACE SEAL  
MIX (WT%) PORTLAND CEMENT 100  
QUANTITY USED 140.0 FT<sup>3</sup> CALC 86. FT<sup>3</sup>

TYPE OF CASING  
MATERIAL PASSIVATED A304 STAINLESS STEEL  
ID (IN) 8.00 OD (IN) 8.625 (8<sup>3</sup>/<sub>8</sub>)  
JOINT TYPE WELDED

HYDRATED BENTONITE SEAL  
TYPE 3/8-IN BENTONITE CHIPS  
QUANTITY USED 1068.2 FT<sup>3</sup> CALC 863.5 FT<sup>3</sup>

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

FINE SAND COLLAR  
SIZE/TYPE 20/40 SILICA  
QUANTITY USED 2.5 FT<sup>3</sup> CALC 3.2 FT<sup>3</sup>

FILTER PACK SAND  
SIZE/TYPE 10/20 SILICA  
QUANTITY USED 160.0 FT<sup>3</sup> CALC 109.3 FT<sup>3</sup>

HYDRATED BENTONITE BACKFILL  
TYPE 3/8-IN BENTONITE CHIPS  
QUANTITY USED 19.6 FT<sup>3</sup> CALC 28.4 FT<sup>3</sup>

14-IN CSG AND SHOE  
1079.5 TO 1096.6 (FT)

STAINLESS-STEEL CENTRALIZERS  
USED 4 ea. EVERY 60 FT ON BLANK CASING  
USED 4 ea. at 5 FT  
ABOVE AND BELOW WELL SCREEN

WELL COMPLETION BEGAN  
DATE 06/11/17 TIME 1830h  
WELL COMPLETION FINISHED  
DATE 07/02/17 TIME 1510h

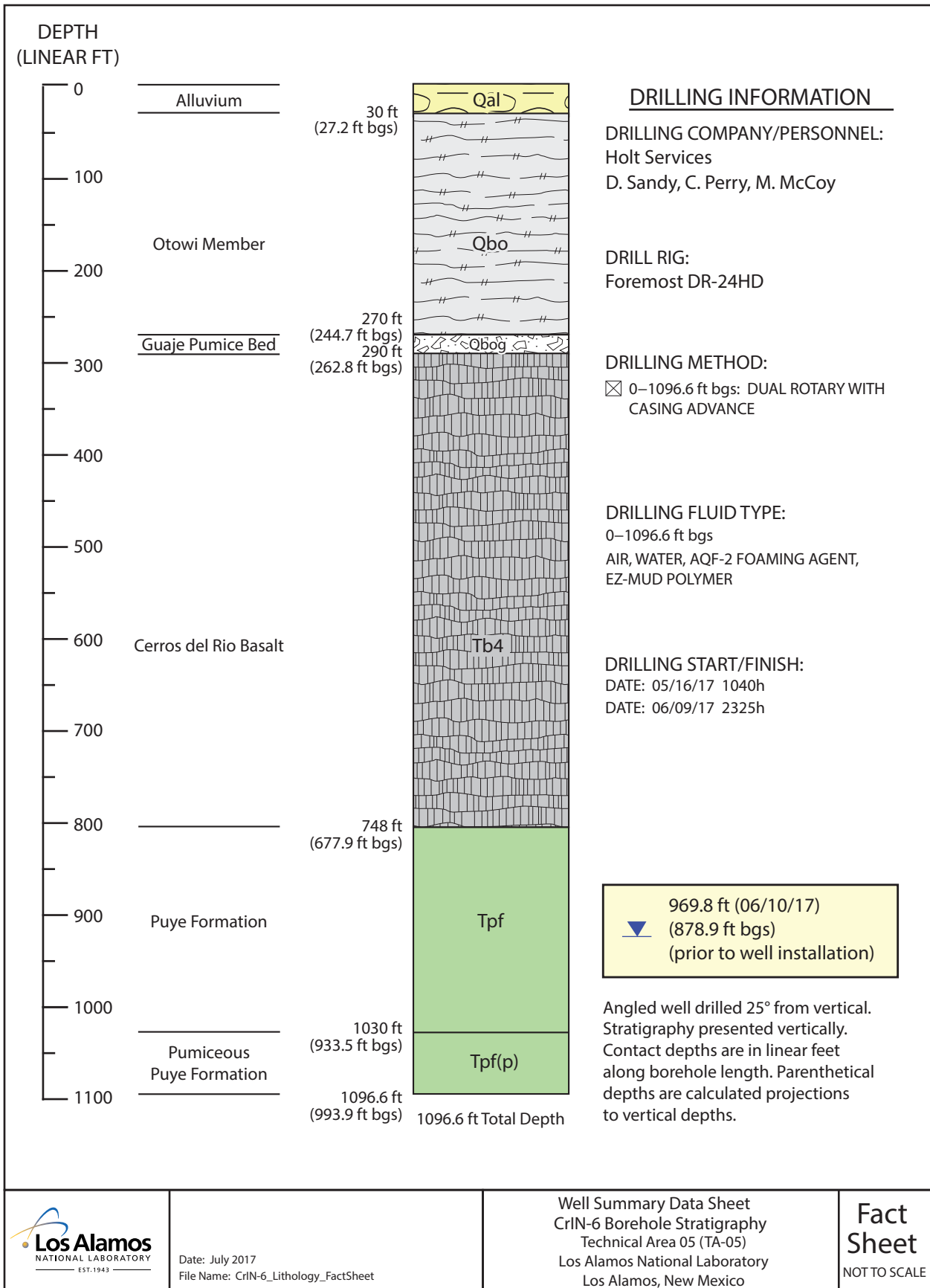


Date: July 2017  
File Name: CrIN-6\_AsBuiltDiagram\_FactSheet

Well CrIN-6 As-Built Well Construction Diagram  
Technical Area 05 (TA-05)  
Los Alamos National Laboratory  
Los Alamos, New Mexico

Fact Sheet

NOT TO SCALE



Date: July 2017  
File Name: CrIN-6\_Lithology\_FactSheet

Well Summary Data Sheet  
CrIN-6 Borehole Stratigraphy  
Technical Area 05 (TA-05)  
Los Alamos National Laboratory  
Los Alamos, New Mexico

**Fact Sheet**  
NOT TO SCALE