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Date: MAR 29 2017

Refer To: ADEM-17-0066

LAUR: 17-22423

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 Regional Well R-68**

Dear Mr. Kieling:

Enclosed please find two hard copies with electronic files of the Fact Sheets for Regional Well R-68. Well R-68 was completed on February 27, 2017.

Monitoring well R-68 was installed under the September 2016 Groundwater Investigation Work Plan for Consolidated Unit 16-021(c)-99, including Drilling Work Plans for Wells R-68 and R-69, approved by the New Mexico Environment Department (NMED) on September 27, 2016. The well completion report will be submitted 150 days after the NMED-complete date of February 27, 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 Regional Well R-68  
(EP2017-0052)

Cy: (w/enc.)  
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Stephani Swickley, ADEM ER Program

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PRS Database

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William Mairson, PADOPS  
Craig Leasure, PADOPS

TOTAL LENGTH  
OF CASING AND SCREEN (FT) 1373.9

DEPTH TO WATER  
FOLLOWING INSTALLATION (FT BGS) 1325.7 (03/14/17)

DIAMETER OF BOREHOLE  
18.00 (IN) FROM 0 TO 55 (FT BGS)  
17.00 (IN) FROM 55 TO 810 (FT BGS)  
16.00 (IN) FROM 810 TO 912 (FT BGS)  
12.75 (IN) FROM 912 TO 1225 (FT BGS)  
10.75 (IN) FROM 1225 TO 1422.8 (FT BGS)

**SURFACE COMPLETION**

PROTECTIVE CASING  
TYPE STEEL SIZE (IN) 16  
PROTECTIVE POSTS INSTALLED   

SURFACE SEAL AND PAD  
CHECK FOR SETTLEMENT     
PAD MATERIAL     
REINFORCED     
PAD DIMENSIONS (FT) 10 (L) 10 (W) 0.8 (H)

**SURFACE SEAL** 3.0 TO 100.1 (FT BGS)

**HYDRATED BENTONITE CHIP SEAL** 100.1 TO 1332.9 (FT BGS)

**FINE SAND COLLAR** 1332.9 TO 1334.8 (FT BGS)

**FILTER PACK** 1334.8 TO 1365.8 (FT BGS)

**SCREENED INTERVAL** 1340 TO 1360.4 (FT BGS)

**BENTONITE SEAL** 1365.8 TO 1418.7 (FT BGS)

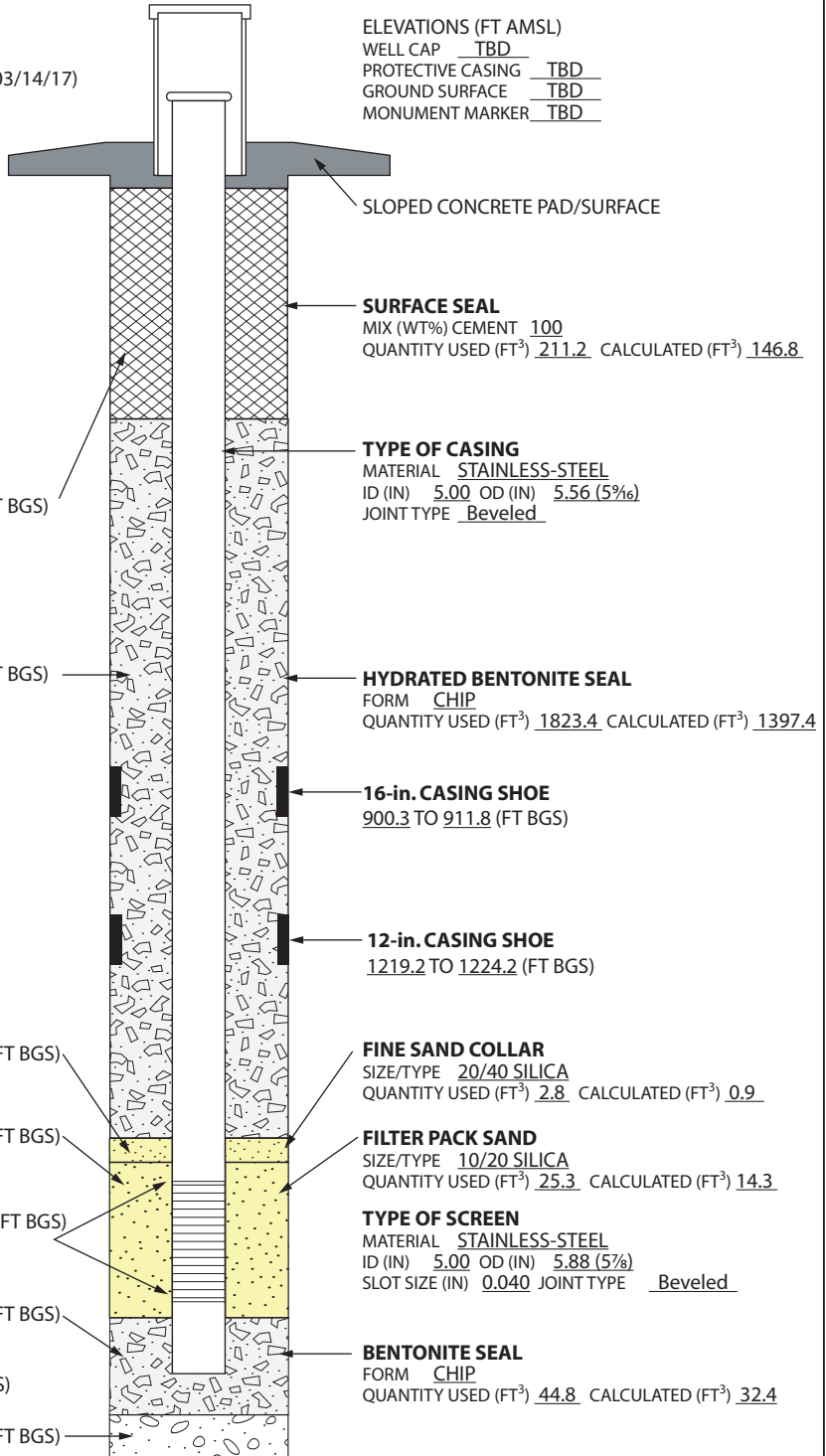
**BOTTOM OF CASING** 1371.2 (FT BGS)

**SLOUGH** 1418.7 TO 1422.8 (FT BGS)

**BOTTOM OF BORING** 1422.8

LOCKING COVER (TO BE INSTALLED)

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



**SURFACE SEAL**  
MIX (WT%) CEMENT 100  
QUANTITY USED (FT<sup>3</sup>) 211.2 CALCULATED (FT<sup>3</sup>) 146.8

**TYPE OF CASING**  
MATERIAL STAINLESS-STEEL  
ID (IN) 5.00 OD (IN) 5.56 (5<sup>9</sup>/<sub>16</sub>)  
JOINT TYPE Beveled

**HYDRATED BENTONITE SEAL**  
FORM CHIP  
QUANTITY USED (FT<sup>3</sup>) 1823.4 CALCULATED (FT<sup>3</sup>) 1397.4

**16-in. CASING SHOE**  
900.3 TO 911.8 (FT BGS)

**12-in. CASING SHOE**  
1219.2 TO 1224.2 (FT BGS)

**FINE SAND COLLAR**  
SIZE/TYPE 20/40 SILICA  
QUANTITY USED (FT<sup>3</sup>) 2.8 CALCULATED (FT<sup>3</sup>) 0.9

**FILTER PACK SAND**  
SIZE/TYPE 10/20 SILICA  
QUANTITY USED (FT<sup>3</sup>) 25.3 CALCULATED (FT<sup>3</sup>) 14.3

**TYPE OF SCREEN**  
MATERIAL STAINLESS-STEEL  
ID (IN) 5.00 OD (IN) 5.88 (5<sup>7</sup>/<sub>8</sub>)  
SLOT SIZE (IN) 0.040 JOINT TYPE Beveled

**BENTONITE SEAL**  
FORM CHIP  
QUANTITY USED (FT<sup>3</sup>) 44.8 CALCULATED (FT<sup>3</sup>) 32.4

**STAINLESS-STEEL CENTRALIZERS**  
USED 4 AT 2.0 ft ABOVE AND  
BELOW WELL SCREEN

**WELL COMPLETION BEGAN**  
DATE 2/6/17 TIME 0945  
**WELL COMPLETION FINISHED**  
DATE 2/27/17 TIME 1250

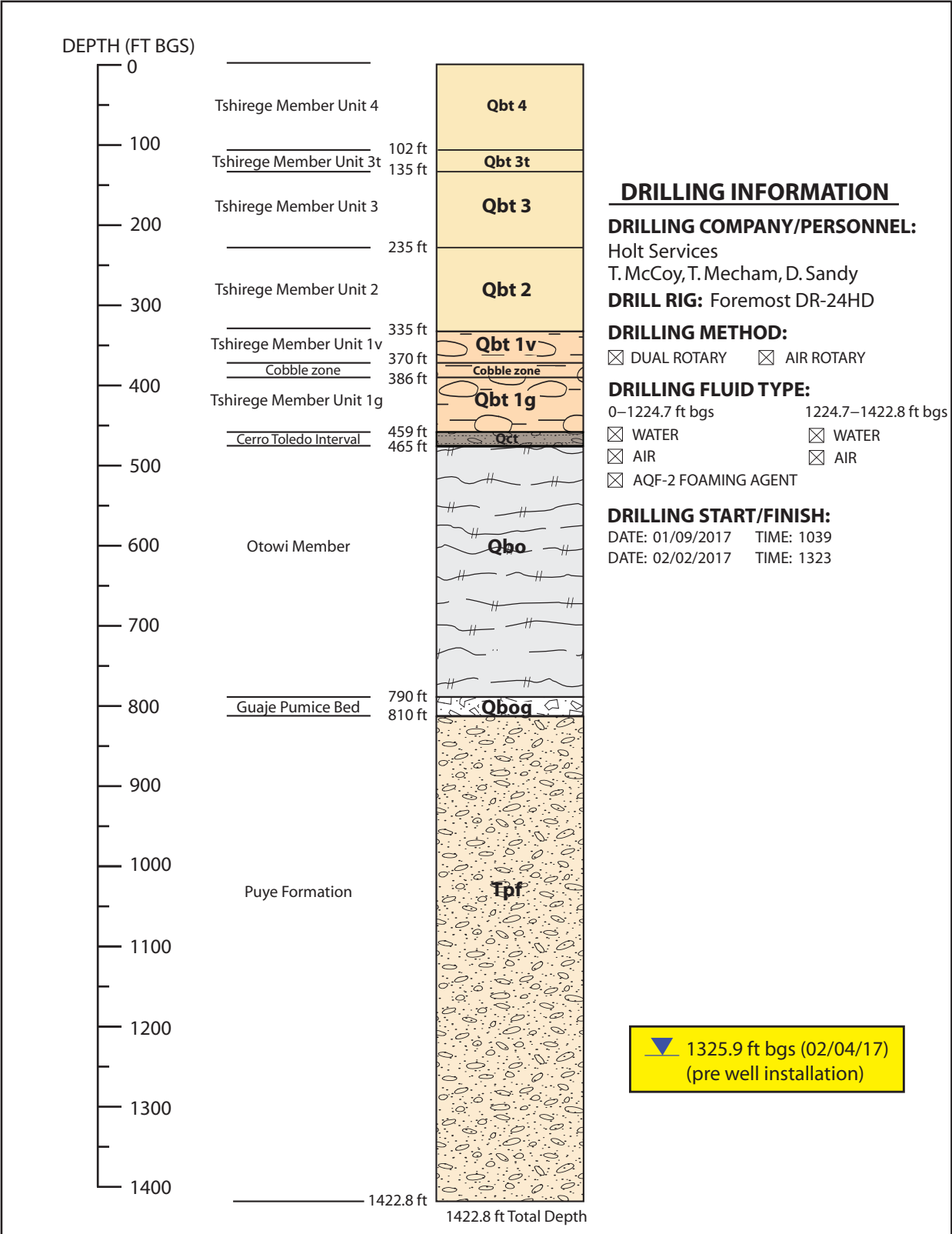


Drafted By: TPMC  
Project Number: 85001

Date: March 23, 2017  
File Name: R-68\_AsBuilt\_FactSheet

**R-68 As-Built Well Construction**  
Technical Area 09 (TA-09)  
Los Alamos National Laboratory  
Los Alamos, New Mexico

Fact Sheet  
**R-68**  
NOT TO SCALE



<b>TerranearPMC</b>		<b>R-68 BOREHOLE STRATIGRAPHY</b> Technical Area 09 (TA-09) Los Alamos National Laboratory Los Alamos, New Mexico	Fact Sheet <b>R-68</b> NOT TO SCALE
Drafted By: TPMC Project Number: 85001	Date: March 23, 2017 Filename: R-68_Lithology_FactSheet		