

		<b>R-57 Borehole Stratigraphy</b> Technical Area 54 (TA-54) Los Alamos National Laboratory Los Alamos, New Mexico	<b>Fact Sheet</b> NOT TO SCALE
Drafted By: TPMC Project Number: 80078	Date: June 16, 2010 Filename: R57_Lithology_FactSheet		

TOTAL LENGTH  
OF CASING AND SCREEN (FT) 1016.6

DEPTH TO WATER  
FOLLOWING INSTALLATION (FT BGS) 896.5 (06/10/10)

DIAMETER OF BOREHOLE  
16.75 (IN) FROM SURF TO 225.8 (FT BGS)  
15.88 (IN) FROM 225.8 TO 826.0 (FT BGS)  
12.75 (IN) FROM 826.0 TO 1081.6 (FT BGS)

**SURFACE COMPLETION (Proposed)**  
PROTECTIVE CASING  
TYPE STEEL SIZE (IN) 10  
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** 3.0 TO 59.9 (FT BGS)

**HYDRATED BENTONITE CHIP SEAL** 59.9 TO 903.3 (FT BGS)

**FINE SAND COLLAR** 903.3 TO 905.4 (FT BGS)

**FILTER PACK** 905.4 TO 935.9 (FT BGS)

**SCREENED INTERVAL** 910.0 TO 930.5 (FT BGS)

**BENTONITE SEAL** 935.9 TO 960.9 (FT BGS)

**FINE SAND COLLAR** 960.9 TO 965.0 (FT BGS)

**FILTER PACK** 965.0 TO 997.3 (FT BGS)

**SCREENED INTERVAL** 971.5 TO 992.1 (FT BGS)

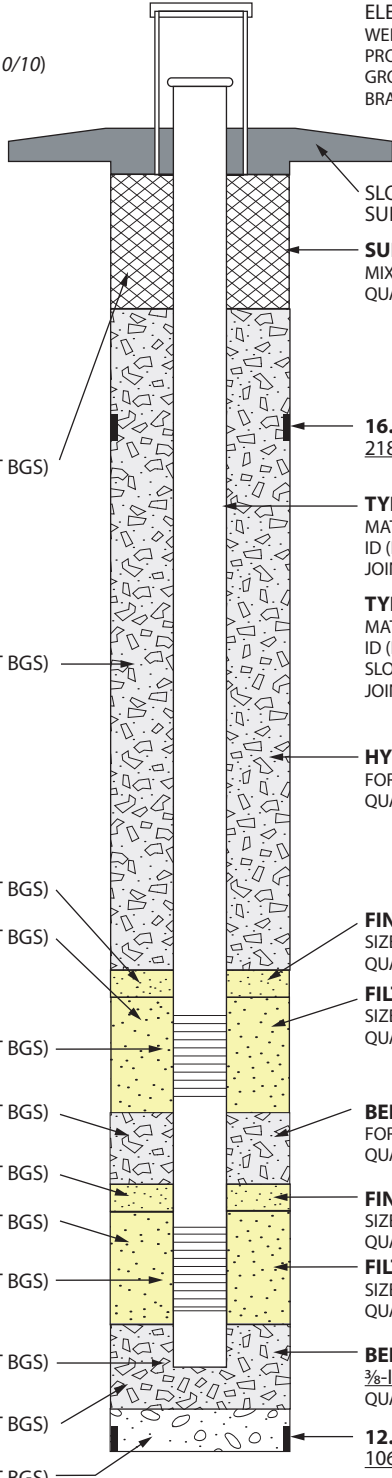
**BOTTOM OF CASING** 1013.8 (FT BGS)

**BACKFILL MATERIAL** 997.3 TO 1053.2 (FT BGS)

**SLOUGH** 1053.2 TO 1081.6 (FT BGS)

**BOTTOM OF BORING** 1081.6 (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  
**SURFACE SEAL**  
MIX (WT%) CEMENT 100 BENTONITE 0  
QUANTITY USED 89.6 FT<sup>3</sup> CALC 81.6 FT<sup>3</sup>

**16.75-IN CSG/SHOE**  
218.6 TO 225.8 (FT BGS)

**TYPE OF CASING**  
MATERIAL PASSIVATED A304 STAINLESS STEEL  
ID (IN) 5.00 OD (IN) 5.56 (5%<sub>16</sub>)  
JOINT TYPE THREADED/COUPLED

**TYPE OF SCREEN(S)**  
MATERIAL A304 STAINLESS STEEL  
ID (IN) 5.00 OD (IN) 5.88 (5%<sub>16</sub>)  
SLOT SIZE (IN) 0.020  
JOINT TYPE THREADED/COUPLED

**HYDRATED BENTONITE SEAL**  
FORM 3/8-IN CHIP  
QUANTITY USED (DRY) 877.9 FT<sup>3</sup> CALC 1000 FT<sup>3</sup>

**FINE SAND COLLAR**  
SIZE/TYPE 20/40 SILICA  
QUANTITY USED 4.0 FT<sup>3</sup> CALC 1.5 FT<sup>3</sup>

**FILTER PACK SAND**  
SIZE/TYPE 10/20 SILICA  
QUANTITY USED 30.0 FT<sup>3</sup> CALC 21.8 FT<sup>3</sup>

**BENTONITE SEAL**  
FORM 3/8-IN CHIP  
QUANTITY USED (DRY) 23.8 FT<sup>3</sup> CALC 17.8 FT<sup>3</sup>

**FINE SAND COLLAR**  
SIZE/TYPE 20/40 SILICA  
QUANTITY USED 7.5 FT<sup>3</sup> CALC 3.0 FT<sup>3</sup>

**FILTER PACK SAND**  
SIZE/TYPE 10/20 SILICA  
QUANTITY USED 79.5 FT<sup>3</sup> CALC 23.0 FT<sup>3</sup>

**BENTONITE BACKFILL**  
3/8-IN CHIP (21%), 1/4-IN PELLETT (79%) MIX  
QUANTITY USED (DRY) 26.1 FT<sup>3</sup> CALC 46.9 FT<sup>3</sup>

**12.75-IN CSG/SHOE**  
1060.0 TO 1081.6 (FT BGS)

**STAINLESS-STEEL CENTRALIZERS**  
USED YES AT 2.0 ft ABOVE AND  
BELOW WELL SCREENS

**WELL COMPLETION BEGAN**  
DATE 05/05/10 TIME 1045  
**WELL COMPLETION FINISHED**  
DATE 06/08/10 TIME 1115

**TerranearPMC**

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**R-57 As-Built Well Construction Diagram**

Technical Area 54 (TA-54)  
Los Alamos National Laboratory  
Los Alamos, New Mexico

**Fact Sheet**

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