

TOTAL LENGTH
OF CASING AND SCREEN (FT) 938.9

DEPTH TO WATER
FOLLOWING INSTALLATION (FT BGS) 815.0 (02/09/10)

DIAMETER OF BOREHOLE
16.75 (IN) FROM 0 TO 352.3 (FT BGS)
15.88 (IN) FROM 352.3 TO 827.0 (FT BGS)
12.75 (IN) FROM 827.0 TO 944.5 (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 300.5 (FT BGS)

HYDRATED BENTONITE CHIP SEAL 300.5 TO 823.7 (FT BGS)

FINE SAND COLLAR 823.7 TO 825.5 (FT BGS)

FILTER PACK 825.5 TO 845.2 (FT BGS)

SCREENED INTERVAL 830.0 TO 840.0 (FT BGS)

BENTONITE SEAL 845.2 TO 907.7 (FT BGS)

FINE SAND COLLAR 907.7 TO 910.1 (FT BGS)

FILTER PACK 910.1 TO 930.0 (FT BGS)

SCREENED INTERVAL 915.0 TO 925.0 (FT BGS)

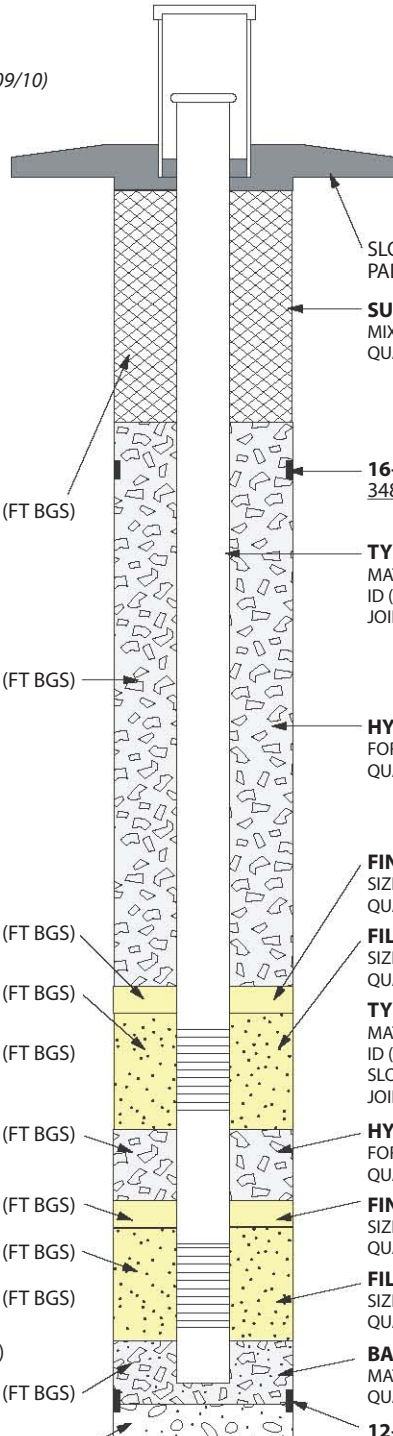
BOTTOM OF CASING 936.0 (FT BGS)

BACKFILL MATERIAL 930.0 TO 942.3 (FT BGS)

SLOUGH 942.3 TO 944.5 (FT BGS)

BOTTOM OF BORING 944.5 (FT BGS)

LOCKING COVER



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

WELL COMPLETION BEGAN
DATE 01/10/10 TIME 0850
WELL COMPLETION FINISHED
DATE 01/29/10 TIME 1705

SLOPED CONCRETE
PAD/SURFACE SEAL

SURFACE SEAL
MIX (DRY WT%) CEMENT 100%
QUANTITY USED 532.4 FT³ CALC 407.5 FT³

16-IN. CASING/SHOE
348.0 TO 352.3 (FT BGS)

TYPE OF CASING
MATERIAL STAINLESS-STEEL
ID (IN) 5.00 OD (IN) 5.56 (5%)
JOINT TYPE WELDED

HYDRATED BENTONITE SEAL
FORM 3/8-IN. CHIP
QUANTITY USED (DRY) 625.0 FT³ CALC 636.7 FT³

FINE SAND COLLAR
SIZE/TYPE 20/40 SILICA
QUANTITY USED 2.0 FT³ CALC 2.1 FT³

FILTER PACK SAND
SIZE/TYPE 10/20 SILICA
QUANTITY USED 21.0 FT³ CALC 14.7 FT³

TYPE OF SCREEN(S)
MATERIAL STAINLESS-STEEL
ID (IN) 5.00 OD (IN) 5.88 (5%)
SLOT SIZE (IN) 0.020
JOINT TYPE WELDED

HYDRATED BENTONITE SEAL
FORM 3/8-IN. CHIP
QUANTITY USED (DRY) 44.7 FT³ CALC 44.4 FT³

FINE SAND COLLAR
SIZE/TYPE 20/40 SILICA
QUANTITY USED 1.5 FT³ CALC 1.7 FT³

FILTER PACK SAND
SIZE/TYPE 10/20 SILICA
QUANTITY USED 28.0 FT³ CALC 14.1 FT³

BACKFILL MATERIAL
MATERIAL 3/8-IN. BENTONITE CHIP, HYDRATED
QUANTITY USED (DRY) 8.2 FT³ CALC 9.8 FT³

12-IN. CASING/SHOE
939.8 TO 944.5 (FT BGS)

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



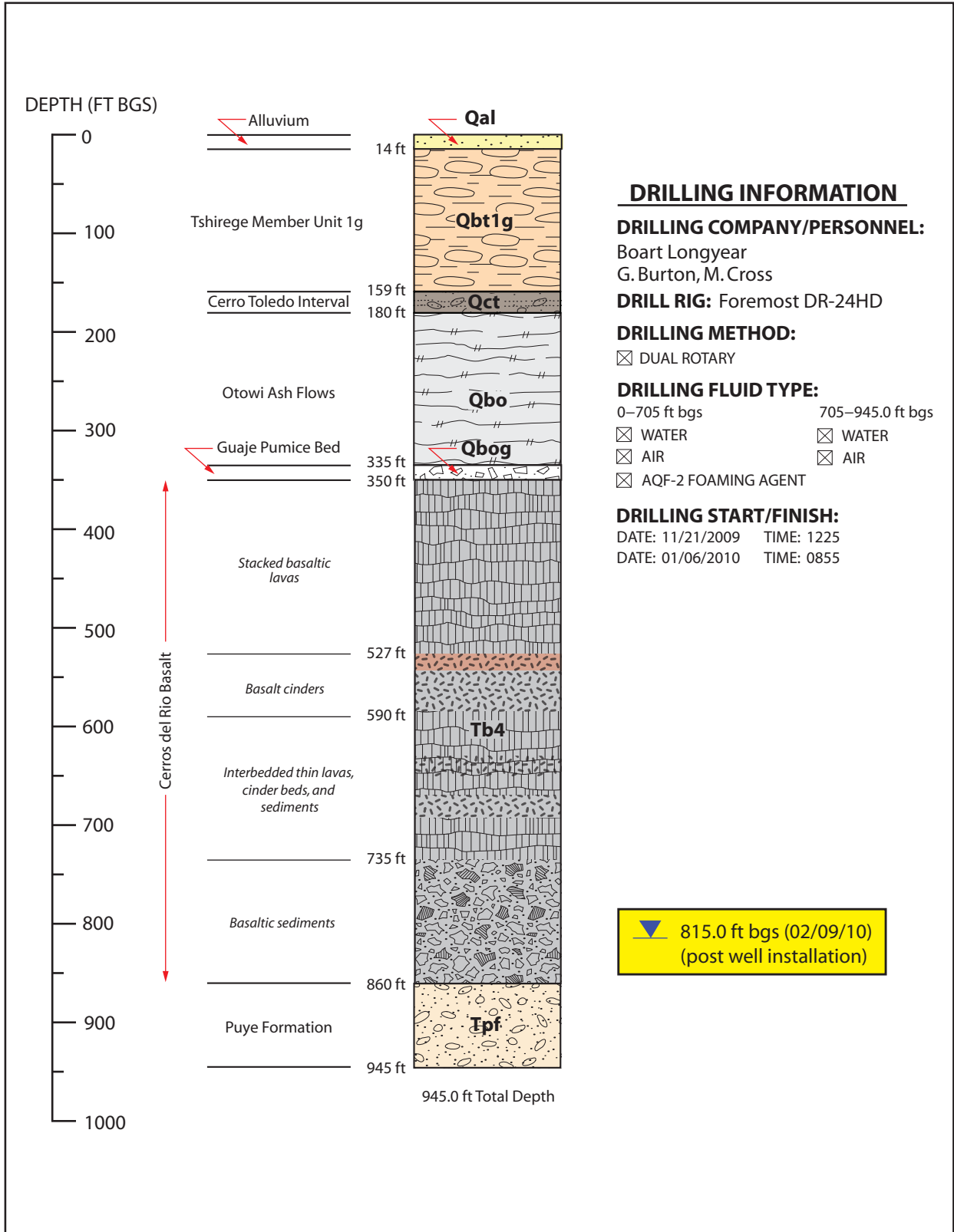
R-54 As-Built Well Construction Diagram

Pajarito Canyon (TA-54)
Los Alamos National Laboratory
Los Alamos, New Mexico

FACT SHEET

NOT TO SCALE

Drafted By: TPMC
Project Number: 80067
Date: February 17, 2010
File Name: R-54_AsBuilt_FactSheet



DRILLING INFORMATION

DRILLING COMPANY/PERSONNEL:

Boart Longyear
G. Burton, M. Cross

DRILL RIG: Foremost DR-24HD

DRILLING METHOD:

DUAL ROTARY

DRILLING FLUID TYPE:

0-705 ft bgs 705-945.0 ft bgs

WATER

WATER

AIR

AIR

AQF-2 FOAMING AGENT

DRILLING START/FINISH:

DATE: 11/21/2009 TIME: 1225

DATE: 01/06/2010 TIME: 0855



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Filename: R54_Lithology_FactSheet

WELL SUMMARY DATA SHEET
R-54 Borehole Stratigraphy
Pajarito Canyon (TA-54)
Los Alamos National Laboratory
Los Alamos, New Mexico

Fact Sheet

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