TOTAL LENGTH
OF CASING AND SCREEN (FT) 1220.4

DEPTH TO WATER
FOLLOWING INSTALLATION (FT BGS) 1066.8 *(02/17/10)*

DIAMETER OF BOREHOLE
18.00 (IN) FROM SURF TO 190.7 (FT BGS)
16.75 (IN) FROM 190.7 TO 555.1 (FT BGS)
15.88 (IN) FROM 555.1 TO 895.0 (FT BGS)
12.75 (IN) FROM 895.0 TO 1224.5 (FT BGS)

SURFACE COMPLETION
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 302.0 (FT BGS)

HYDRATED BENTONITE CHIP SEAL 302.0 TO 1069.2 (FT BGS)

FINE SAND COLLAR 1069.2 TO 1072.3 (FT BGS)

FILTER PACK 1072.3 TO 1092.2 (FT BGS)

SCREENED INTERVAL 1077.0 TO 1087.0 (FT BGS)

BENTONITE SEAL 1092.2 TO 1176.9 (FT BGS)

FINE SAND COLLAR 1176.9 TO 1179.8 (FT BGS)

FILTER PACK 1179.8 TO 1210.9 (FT BGS)

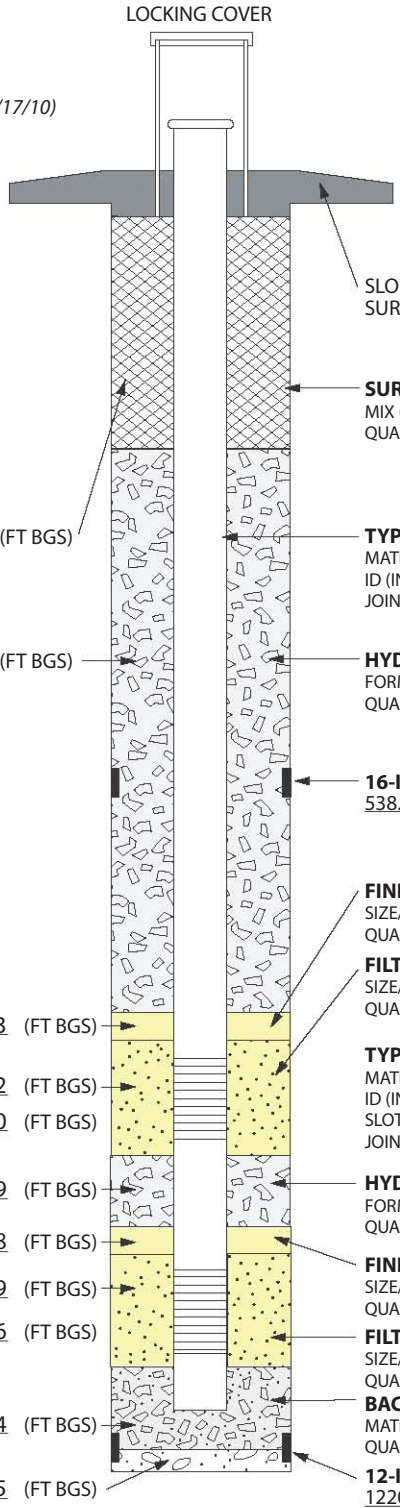
SCREENED INTERVAL 1185.0 TO 1205.6 (FT BGS)

BOTTOM OF CASING 1217.5 (FT BGS)

BACKFILL MATERIAL 1210.9 TO 1221.4 (FT BGS)

SLOUGH 1221.4 TO 1224.5 (FT BGS)

BOTTOM OF BORING 1224.5 (FT BGS)



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

WELL COMPLETION BEGAN
DATE 02/01/10 TIME 1325
WELL COMPLETION FINISHED
DATE 02/13/10 TIME 0750

SLOPED CONCRETE PAD/
SURFACE PAD 0.0 TO 3.0 (FT BGS)

SURFACE SEAL
MIX (DRY WT%) CEMENT 100% ADDITIVE NONE
QUANTITY USED 573.1 FT^3 CALC 437.8 FT^3

TYPE OF CASING
MATERIAL PASSIVATED A304 STAINLESS STEEL
ID (IN) 5.00 OD (IN) 5.56 (5 9/16)
JOINT TYPE THREADED/COUPLED

HYDRATED BENTONITE SEAL
FORM 3/8-IN CHIP
QUANTITY USED (DRY) 714.6 FT^3 CALC 824.4 FT^3

16-IN CASING/SHOE
538.1 TO 555.1 (FT BGS)

FINE SAND COLLAR
SIZE/TYPE 20/40 SILICA
QUANTITY USED 1.8 FT^3 CALC 2.2 FT^3

FILTER PACK SAND
SIZE/TYPE 10/20 SILICA
QUANTITY USED 21.3 FT^3 CALC 14.3 FT^3

TYPE OF SCREEN(S)
MATERIAL A304 STAINLESS STEEL
ID (IN) 5.00 OD (IN) 5.88 (5 7/8)
SLOT SIZE (IN) 0.020
JOINT TYPE THREADED/COUPLED

HYDRATED BENTONITE SEAL
FORM 3/8-IN CHIP
QUANTITY USED (DRY) 66.7 FT^3 CALC 60.8 FT^3

FINE SAND COLLAR
SIZE/TYPE 20/40 SILICA
QUANTITY USED 3.3 FT^3 CALC 2.1 FT^3

FILTER PACK SAND
SIZE/TYPE 10/20 SILICA
QUANTITY USED 41.4 FT^3 CALC 22.4 FT^3

BACKFILL MATERIAL
MATERIAL 3/8-IN BENTONITE CHIPS
QUANTITY USED (DRY) 3.7 FT^3 CALC 1.5 FT^3

12-IN CASING/SHOE
1220.0 TO 1224.5 (FT BGS)

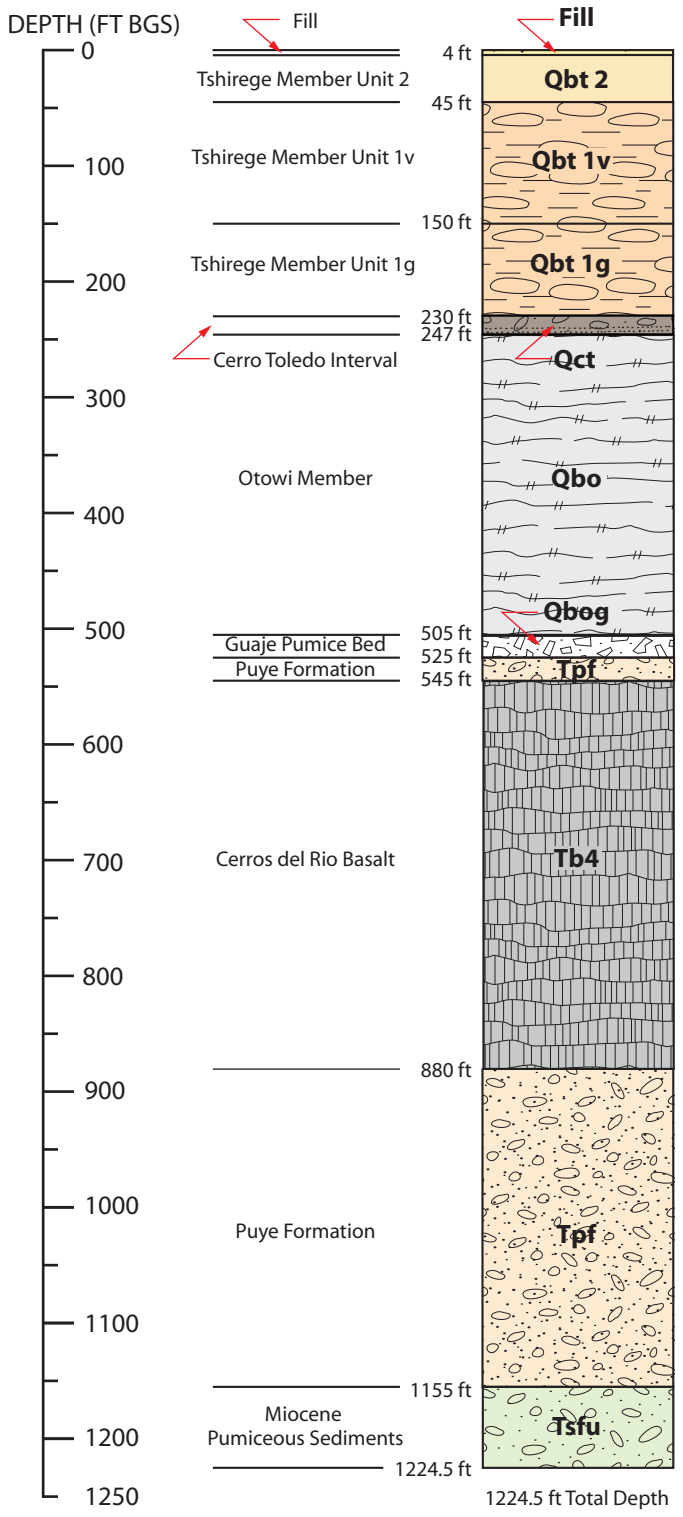
STAINLESS-STEEL CENTRALIZERS
USED YES AT 2.0 ft ABOVE AND
BELOW WELL SCREENS

TerranearPMC

Drafted By: TPMC
Project Number: 80067
Date: March 4, 2010
File Name: R-50_As-Built_FactSheet

R-50 As-Built Well Construction Diagram
Technical Area 05 (TA-05)
Los Alamos National Laboratory
Los Alamos, New Mexico

Fact Sheet
NOT TO SCALE



DRILLING INFORMATION

DRILLING COMPANY/PERSONNEL:
Boart Longyear
C Seal, M. Cross

DRILL RIG: Foremost DR-24HD

DRILLING METHOD:
☒ DUAL ROTARY

DRILLING FLUID TYPE:

0–960 ft bgs	960–1224.5 ft bgs
☒ WATER	☒ WATER
☒ AIR	☒ AIR
☒ AQF-2 FOAMING AGENT	

DRILLING START/FINISH:
DATE: 12/05/2009 TIME: 1740
DATE: 01/25/2010 TIME: 0405

▼ 1066.8 ft bgs (02/17/10)
(post well installation)

TerranearPMC

Drafted By: TPMC
Project Number: 80067

Date: March 10, 2010
Filename: R50_Lithology_FactSheet

WELL SUMMARY DATA SHEET
R-50 Borehole Stratigraphy
Technical Area 05 (TA-05)
Los Alamos National Laboratory
Los Alamos, New Mexico

Fact Sheet
NOT TO SCALE