



TOTAL LENGTH

CASING AND SCREEN (ft) 1544.92

DEPTH TO WATER

FOLLOWING INSTALLATION (ft bgs) 1352.70

DIAMETER OF BOREHOLE

12.25 (in) FROM 0 TO 1405 (ft bgs)

9.875 (in) FROM 1405 TO 1705 (ft bgs)

SURFACE COMPLETION INFORMATION

PROTECTIVE CASING

TYPE STEEL SIZE 10.75 (in)

PROTECTIVE POSTS INSTALLED 10-23-09

SURFACE SEAL AND PAD

CHECK FOR SETTLEMENT 10-27-09

PAD MATERIAL REINFORCED CONCRETE ~ 3500 psi

REINFORCED REBAR WITH 1/8-in WIRE MESH

PAD DIMENSIONS (ft) 10.0 (L) 10.0 (W) 0.33 (H)

SURFACE SEAL

5.0 TO 66.0 (ft bgs)

HYDRATED BENTONITE CHIPS

66.0 TO 1493.0 (ft bgs)

FINE SAND COLLAR

1493.0 TO 1495.0 (ft bgs)

FILTER PACK

1495.0 TO 1525.0 (ft bgs)

SCREENED INTERVAL

1500.0 TO 1520.63 (ft bgs)

STAINLESS STEEL CENTRALIZERS USED

YES AT 1541.00, 1522.27, 1499.04 (ft bgs)

BENTONITE SEAL

1525.0 TO 1701.0 (ft bgs)

BOTTOM OF CASING

1542.42 ft bgs

SLOUGH

1701.0 TO 1705.0 (ft bgs)

BOTTOM OF BORING

1705.0 (ft bgs)

LOCKING COVER

ELEVATIONS (ft amsl)

WELL CAP (TBD)

PROTECTIVE CASING (TBD)

WELL CASING (TBD)

GROUND SURFACE (TBD)

MONUMENT MARKER (TBD)

← SLOPED CONCRETE PAD/SURFACE

SURFACE SEAL

GROUT FORMULA (wt %)

PORTLAND CEMENT (1) 94 LB BAG MIXED

WITH (1) IDP-381 2 LB BAG

QUANTITY USED 51.0 ft³

CALCULATED VOLUME 41.3 ft³

TYPE OF CASING

MATERIAL STAINLESS STEEL

ID (in) 5.047 OD (in) 5.563

JOINT TYPE THREADED AND COUPLED

HYDRATED 0.375-in BENTONITE CHIP SEAL

QUANTITY USED 1007.01 ft³

CALCULATED VOLUME 909.17 ft³

FINE SAND COLLAR

SIZE/TYPE 20/40

QUANTITY USE 0.73 ft³

CALCULATED VOLUME 0.73 ft³

TYPE OF SCREEN(S)

MATERIAL STAINLESS STEEL

ID (in) 5.047 OD (in) 5.563

SLOT SIZE (in) 0.020

JOINT TYPE THREADED AND COUPLED

FILTER PACK

SAND SIZE 10/20

QUANTITY USED 14.50 ft³

CALCULATED VOLUME 10.95 ft³

BENTONITE SEAL

0.375-in BENTONITE

QUANTITY USED 107.87 ft³

CALCULATED VOLUME 109.60 ft³

WELL DEVELOPMENT BEGAN

Date 10-2-09 Time 0835

WELL DEVELOPMENT FINISHED

Date 10-8-09 Time 1701

DEVELOPMENT METHOD

Swabbing Bailing

Pumping

Total Purge Volume 9663.8 gal

PARAMETER MEASUREMENTS

pH 7.86

Temperature 21.69°C

Specific Conductance 0.1 µS·cm⁻¹

Turbidity 21.1 NTU

WELL COMPLETION BEGAN

Date 09-13-2009 Time 0820

WELL COMPLETION FINISHED

Date 09-26-2009 Time 1025



R-48 WELL CONSTRUCTION DIAGRAM (AS BUILT)

TA-16

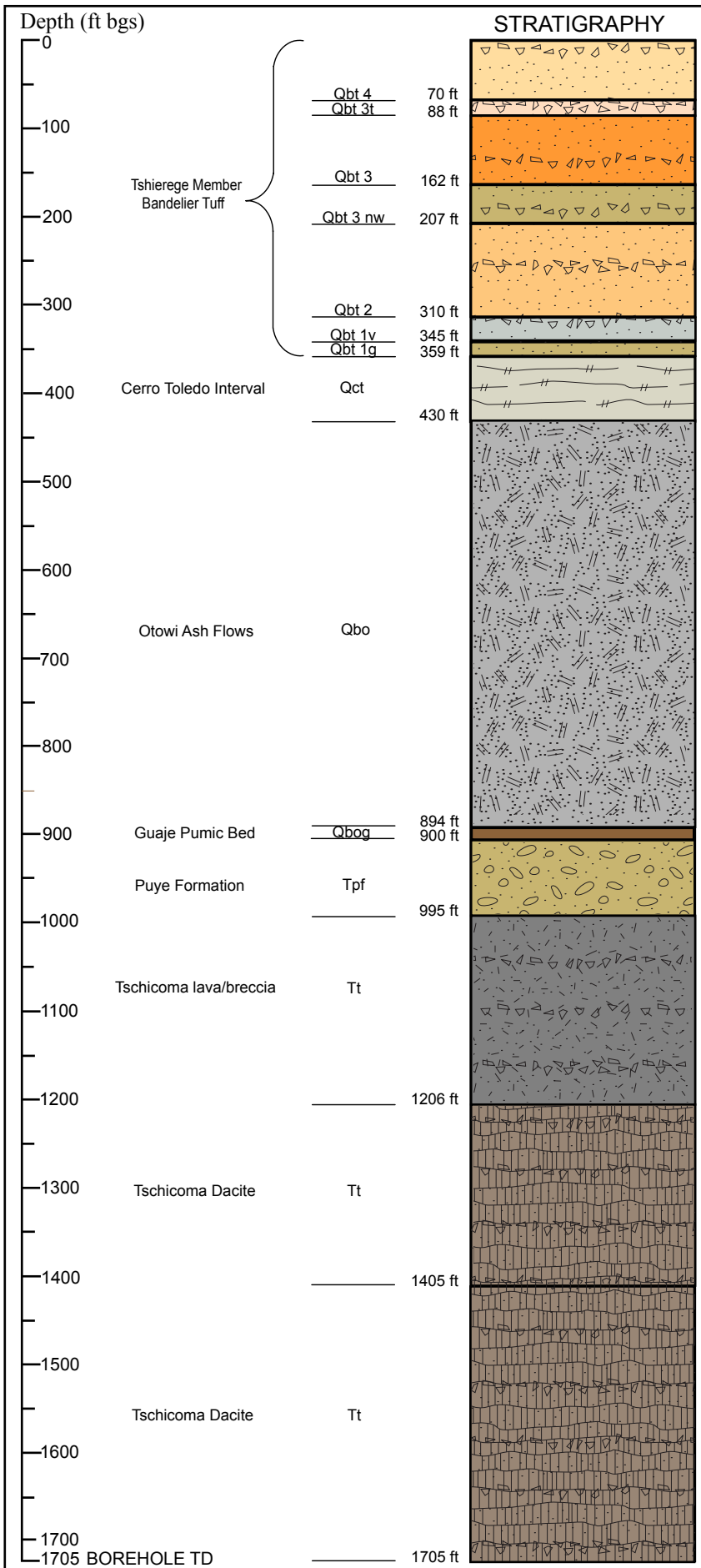
Los Alamos National Laboratory
Los Alamos, New Mexico

FACT SHEET

NOT TO SCALE

Drafted by: North Wind, Inc.
Project Number: 10005.002.20

Date: Oct 26, 2009
Filename: R-48_Well Schematic



STRATIGRAPHY

DRILLING INFORMATION*

DRILLING COMPANY/PERSONNEL:

Layne Christensen Company
E. Vargas/S. Johnson

DRILL RIG: Atlas Copco RD-20

DRILLING METHOD:

AIR ROTARY

DRILLING FLUID TYPE

1405.0 - 1705.0 ft bgs

WATER

AIR

DRILLING START/FINISH:

DATE: 08/29/09 TIME: 0831

DATE: 09/08/09 TIME: 1339

▼ 1352.52 ft bgs (10/19/09)
(post well installation)

* Drilling and lithologic log between 0.0 ft bgs and 1405.0 ft bgs completed by Kleinfelder as Well CdV-16-3(i) (2004).
Drilling and lithologic log between 1405.0 ft bgs and 1705.0 ft bgs (TD) completed by North Wind Inc. as Well R-48 (2009).



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R-48 WELL SUMMARY DATA SHEET
Borehole Stratigraphy
TA-16

Los Alamos National Laboratory
Los Alamos, New Mexico

FACT SHEET

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