

TOTAL LENGTH
 CASING AND SCREEN (ft) 1048.55
DEPTH TO WATER
 FOLLOWING INSTALLATION (ft bgs) 890.62 (02/17/2010)
DIAMETER OF BOREHOLE
24.00 (in) FROM 0 TO 101.25 (ft bgs)
17.00 (in) FROM 101.25 TO 793.92 (ft bgs)
13.50 (in) FROM 793.92 TO 836.33 (ft bgs)
24.00 (in) FROM 836.33 TO 1054.50 (ft bgs)

SURFACE SEAL 3.00 TO 110.70 (ft bgs)
HYDRATED BENTONITE CHIPS 110.70 TO 279.23 (ft bgs)

NEAT CEMENT GROUT SEAL AROUND 12-in ID CASING 279.23 TO 537.60 (ft bgs)
12-in ID STEEL CASING 335.00 TO 560.00 (ft bgs)*

SURFACE COMPLETION INFORMATION
 PROTECTIVE CASING
 TYPE STEEL SIZE 16.75 (in) OD
 PAD AND PROTECTIVE POSTS INSTALLED TBD
 SURFACE SEAL AND PAD
 CHECK FOR SETTLEMENT TBD
 PAD MATERIAL REINFORCED CONCRETE ~3500 psi
 REINFORCED REBAR WITH 1/8-in WIRE MESH
 PAD DIMENSIONS (ft) 10.0 (L) 10.0 (W) 0.5 (H)

STATIC WATER LEVEL POST INSTALLATION 890.62 (ft bgs)

HYDRATED BENTONITE CHIPS 537.6 TO 903.32 (ft bgs)
FINE SAND COLLAR 903.32 TO 905.64 (ft bgs)

FILTER PACK 905.64 TO 931.07 (ft bgs)

SCREENED INTERVAL 914.96 TO 925.24 (ft bgs)

HYDRATED BENTONITE CHIPS 931.07 TO 1022.26 (ft bgs)

FINE SAND COLLAR 1022.26 TO 1024.84 (ft bgs)

FILTER PACK 1024.84 TO 1045.59 (ft bgs)

SCREENED INTERVAL 1030.96 TO 1041.00 (ft bgs)

BOTTOM OF WELL CASING 1046.05 (ft bgs)

HYDRATED BENTONITE CHIPS 1045.59 TO 1051.16 (ft bgs)

SLOUGH 1051.16 TO 1054.34 (ft bgs)

STAINLESS STEEL CENTRALIZERS USED
 YES UPPER SCREEN AT 913.46 & 927.49 (ft bgs)
 LOWER SCREEN AT 1028.96 & 1043.70 (ft bgs)

BOTTOM OF BORING 1054.34 (ft bgs)

LOCKING COVER

ELEVATIONS (ft amsl)
 WELL CASING TBD
 PROTECTIVE CASING TBD
 GROUND SURFACE TBD
 MONUMENT MARKER TBD

SLOPED CONCRETE SURFACE COMPLETION PAD

SURFACE SEAL GROUT FORMULA (wt %)
 PORTLAND CEMENT (1) 94 LB BAG MIXED WITH 5.2 GALLONS WATER/BAG
 QUANTITY USED 249.60 ft³
 CALCULATED VOLUME 314.53 ft³

HYDRATED 0.375-in BENTONITE CHIP SEAL
 QUANTITY USED 457.68 ft³
 CALCULATED VOLUME 237.63 ft³

NEAT CEMENT GROUT FORMULA (wt %)
 PORTLAND CEMENT (1) 94 LB BAG MIXED WITH 5.2 GALLONS WATER/BAG
 QUANTITY USED 455.00 ft³
 CALCULATED VOLUME 344.05 ft³

HYDRATED 0.375-in BENTONITE CHIP SEAL
 QUANTITY USED 508.21 ft³
 CALCULATED VOLUME 446.96 ft³

FINE TRANSITION SAND COLLAR
 SIZE/TYPE 20/40
 QUANTITY USED 2.00 ft³
 CALCULATED VOLUME 2.18 ft³

TYPE OF SCREEN(S)
 MATERIAL A304 STAINLESS STEEL
 ID (in) 5.047 OD (in) 5.563
 SLOT SIZE 0.020
 JOINT TYPE BEVELED AND WELDED

PRIMARY FILTER PACK SAND
 SIZE/TYPE 10/20
 QUANTITY USED 68.50 ft³
 CALCULATED VOLUME 23.90 ft³

HYDRATED 0.375-in BENTONITE CHIP SEAL
 QUANTITY USED 107.18 ft³
 CALCULATED VOLUME 85.72 ft³

TYPE OF WELL CASING
 MATERIAL PASSIVATED A304 STAINLESS STEEL
 ID (in) 5.047 OD (in) 5.563
 JOINT TYPE BEVELED AND WELDED

FINE TRANSITION SAND COLLAR
 SIZE/TYPE 20/40
 QUANTITY USED 2.63 ft³
 CALCULATED VOLUME 2.43 ft³

TYPE OF SCREEN(S)
 MATERIAL A304 STAINLESS STEEL
 ID (in) 5.047 OD (in) 5.563
 SLOT SIZE 0.020
 JOINT TYPE BEVELED AND WELDED

PRIMARY FILTER PACK SAND
 SIZE/TYPE 10/20
 QUANTITY USED 21.75 ft³
 CALCULATED VOLUME 19.51 ft³

HYDRATED 0.375-in BENTONITE CHIP SEAL
 QUANTITY USED 6.18 ft³
 CALCULATED VOLUME 6.02 ft³

WELL DEVELOPMENT BEGAN

Upper Lower
 Date 3/05/10 2/11/10
 Time 0900 0755

WELL DEVELOPMENT FINISHED

Upper Lower
 Date 3/08/10 2/22/10
 Time 0800 0900

DEVELOPMENT METHOD

Swabbing Bailing
 Pumping

Total Purge Volume
 Upper 6,580.1 gal
 Lower 45,002.2 gal

PARAMETER MEASUREMENTS

Upper Lower
 pH 7.06 9.52
 Temperature (°C) 18.06 20.51
 Specific Conductance (µS/cm) 169 134
 Turbidity (NTU) 1.10 19.00

WELL COMPLETION BEGAN

Date 1/16/10 Time 2010

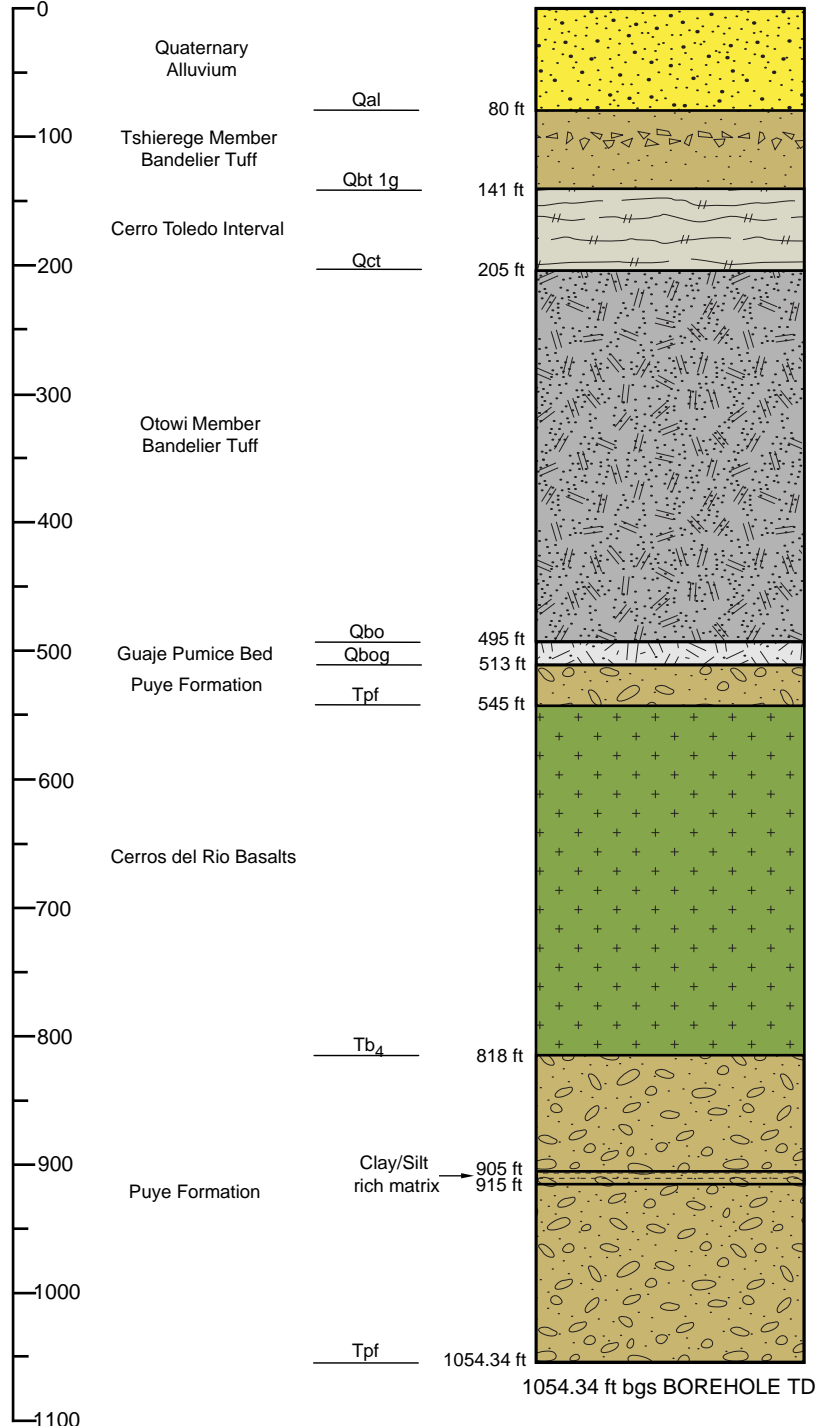
WELL COMPLETION FINISHED

Date 2/08/10 Time 1309

*12-in steel casing depths inferred from LANL Gamma Log run on 2/2/2010

DEPTH (FT BGS)

STRATIGRAPHY



DRILLING INFORMATION

DRILLING COMPANY/PERSONNEL:

Layne Christensen Company
H. Waddell, R. Wall

DRILL RIG: Schramm T130XD

DRILLING METHOD:

- AIR ROTARY
- DUAL ROTARY

DRILLING FLUID TYPE

0.0 - 776.0 ft bgs 776.0 - 1054.34 ft bgs

- WATER
- AIR
- AQF-2 FOAM™
- WATER
- AIR

DRILLING START/FINISH:

DATE: 12/03/09 TIME: 0905
DATE: 01/14/10 TIME: 0250

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

1054.34 ft bgs BOREHOLE TD