



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: DT-5A

Well owner: U.S. Department of Energy/Los Alamos National Laboratory Phone No.: 505-667-3005

Mailing address: P.O. Box 1663

City: Los Alamos State: New Mexico Zip code: 87545

II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: Boart Longyear

2) New Mexico Well Driller License No.: 1161 Expiration Date: 10/31/2014

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): Boart Longyear

4) Date well plugging began: 8/4/14 Date well plugging concluded: 8/30/14

5) GPS Well Location: East: 1625310.0
North: 1754789.4

Well coordinates are New Mexico State Plane Grid Coordinates, Central Zone (North American Datum, 1983 [NAD 1983]).

6) Depth of well confirmed at initiation of plugging as: 1788 ft below ground level (bgl),
by the following manner: Video log

7) Static water level measured at initiation of plugging: 1187.5 ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 07/18/2014

9) Were all plugging activities consistent with an approved plugging plan? No If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

Hydrated bentonite chips were placed from TD (1788 ft bgl) to 1170.3 ft bgl with a tremie pipe (the proposed top of the bentonite seal was 520 ft bgl; Portland Type I/II cement was used instead after the perforated casing slots were sealed with hydrated bentonite chips). Portland Type I/II cement was placed from 1170.3 to 857.7 ft bgl with a tremie pipe. The tremie was removed from the well casing and a pneumatic casing cutter was installed. The 8-in. well casing was cut and removed from 241.3 ft bgl (the proposed cut was 520 ft bgl, however scale on the sidewalls prevented the casing cutter from being lowered past 260 ft bgl). The tremie pipe was reinstalled and cement was placed from 857.7 to 2.0 ft bgl. The 12-in. well casing was cut level with ground surface and a concrete surface plug was emplaced from 2.0 ft bgl to surface.

- 10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

For each interval plugged, describe within the following columns:

Depth (ft bgl)	Plugging Material Used (include any additives used)	Volume of Material Placed (gallons)	Theoretical Volume of Borehole/ Casing (gallons)	Placement Method (tremie pipe, other)	Comments ("casing perforated first", "open annular space also plugged", etc.)
0 2.0	Concrete	12.7 gallons	12.0 gallons	Other	Surface plug
	Portland Type I/II Cement	5289.9 gallons	4763.3 gallons	Tremie	Calculated and actual volumes also include annular space between 8-in. and 12-in. well casings from 241.3 to 520 ft bgl
1170.3	3/8-in. Hydrated Bentonite Chips	1381.6 gallons	1617.2 gallons	Tremie	8-in. casing cut and removed from 241.3ft bgl to surface
1788.0					

MULTIPLY		BY		AND OBTAIN
cubic feet	x	7.4805	=	gallons
cubic yards	x	201.97	=	gallons

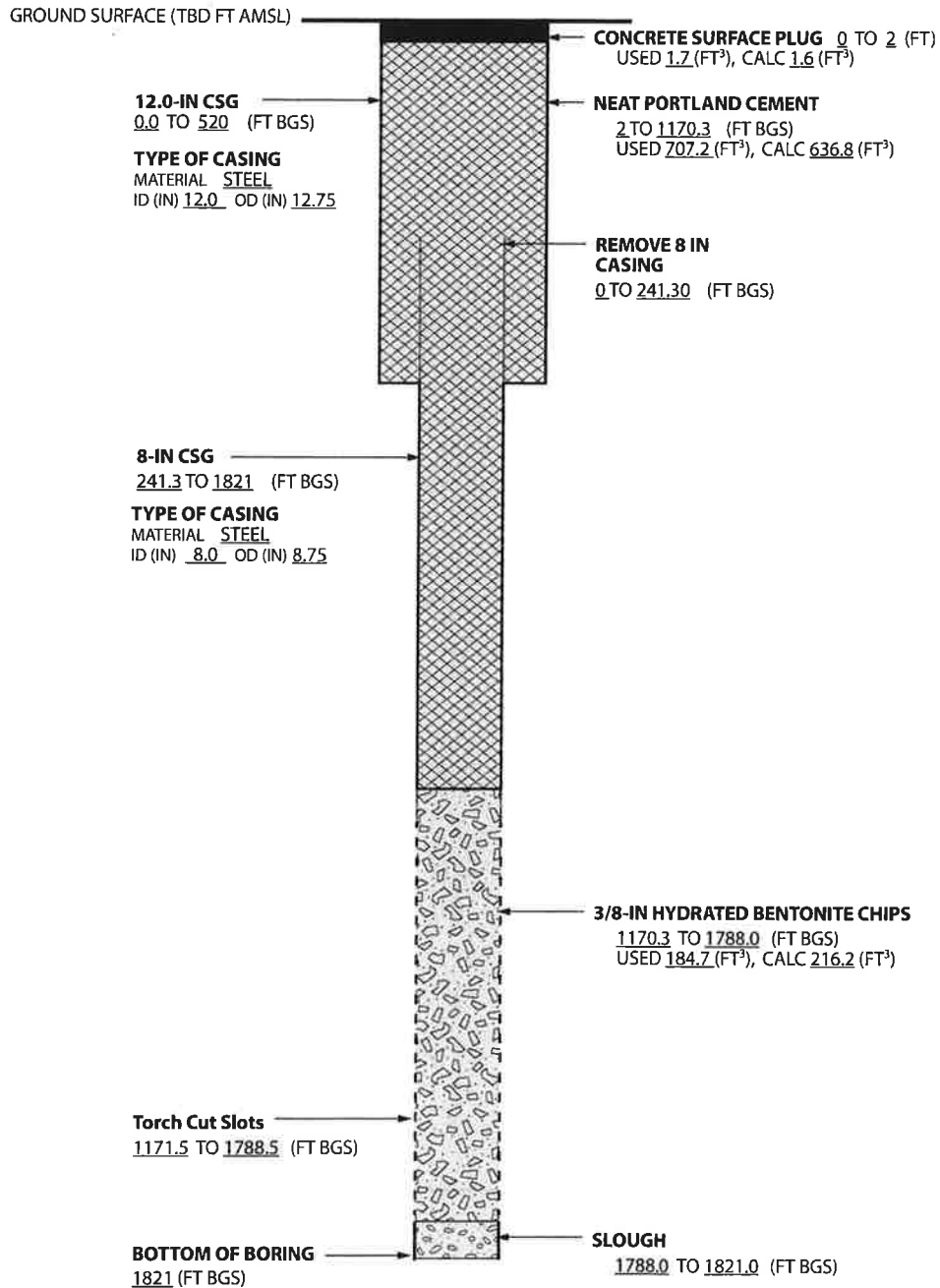
III. SIGNATURE:

I, _____, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.


Signature of Well Driller

10-9-14
Date

ELEVATIONS (FT AMSL)
BRASS CAP (MARKER) TBD



TerranearPMC

Drafted By: TPMC
Project Number: 86313

Date: August 8, 2014
File Name: DT-5A_Final_PandA

DT-5A Post-Abandonment Well Construction
Technical Area 49 (TA-49)
Los Alamos National Laboratory
Los Alamos, New Mexico

As-Built

DT-5A

NOT TO SCALE