



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-5

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: 7/24/14 Date well plugging concluded: 7/27/14
- 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: 924.4 ft below ground level (bgl),
by the following manner: Manual tag line measurement
- 7) Static water level measured at initiation of plugging: Dry 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? Yes 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 (924.4 ft bgl) to 196.2 ft bgl with a tremie pipe. Portland Type I/II cement was placed from 196.2 to 2.5 ft bgl with a tremie pipe. The well casing was cut level with ground surface and a concrete surface plug was emplaced from 2.5 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.

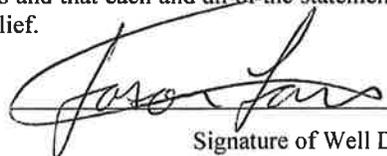
For each interval plugged, describe within the following columns:

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 2.5	Concrete	20.2 gallons	6.7 gallons	Other	Surface plug
196.2	Portland Type I/II Cement	549.8 gallons	505.6 gallons	Tremie	
924.4	3/8-in. Hydrated Bentonite Chips	1654.6 gallons	1901.4 gallons	Tremie	

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

CONCRETE SURFACE PLUG 0.0 TO 2.5 (FT BGS)
USED 2.7 (FT³), CALC 0.9 (FT³)

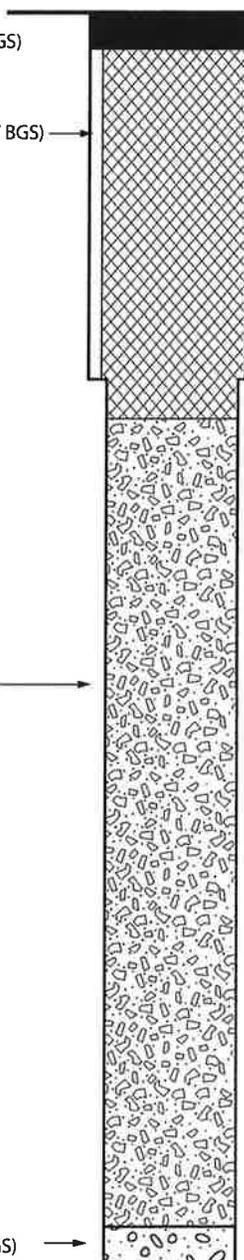
NEAT PORTLAND CEMENT 2.5 TO 196.2 (FT BGS)
USED 73.5 (FT³), CALC 67.6 (FT³)

3/8-IN HYDRATED BENTONITE CHIPS
196.2 TO 924.4 (FT BGS)
USED 221.2 (FT³), CALC 254.2 (FT³)

SLOUGH 924.4 TO 927 (FT BGS)
BOTTOM OF BORING 927 (FT BGS)

GROUND SURFACE (TBD FT AMSL)
8.0-IN CSG 2.0 TO 180 (FT BGS)

TYPE OF CASING
MATERIAL STEEL
ID (IN) 8.0 OD (IN) 8.75



TerranearPMC

Drafted By: TPMC Date: August 12, 2014
Project Number: 86313 File Name: DT-5_Final_Panda

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

As-Built

DT-5

NOT TO SCALE