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BOREHOLE GEOPHYSICAL LOG

English/Metric units M

SiteID (C1) 420033091420302	**Station name (C12)** 083N07W07DDBD 1993USGS CRM-11	**Other ID** CRM-11
County Linn	**State** Iowa	**Log date** 6/22/17
Owner City of Cedar Rapids	**Project** Cedar Rapids Alluvial Aquifer Study	
Location description Sandy southern bank of Cedar River within Manhattan/Robbins Lake Park		
Latitude 42.00916°	**Longitude** -91.701014°	**Lat/Long datum** NAD83
Altitude LMP 220	**Altitude datum** NGVD88	**Log measurement point (LMP)** Top of Casing (TOC)
Height LMP 0.91 m above (+) LS	**Description of LMP** Top of PVC casing. See remarks below.	
Borehole depth 26.82 TOC	**Borehole diameter** Unknown	**Casing bottom** 25.91 TOC
Casing diameter 10.16	**Casing type** PVC	**Source of data** USGS Iowa WSC and OGW BG
Logging unit USGS OGW BG	**Log orientiation** MN	**Magnetic declination** 0.68° W
Recorded by KLCP/SNP	**Observed by** LG/ EB/JW	
Software non-ASCII logs WellCAD 5.1	**Type of log** ZZ-Composite	
Fluid type Water	**Fluid depth below LMP** 1.41	**at time** 14:19

Hydrologic conditions Flood Plain of Cedar River; scattered thunderstorms during week of logging

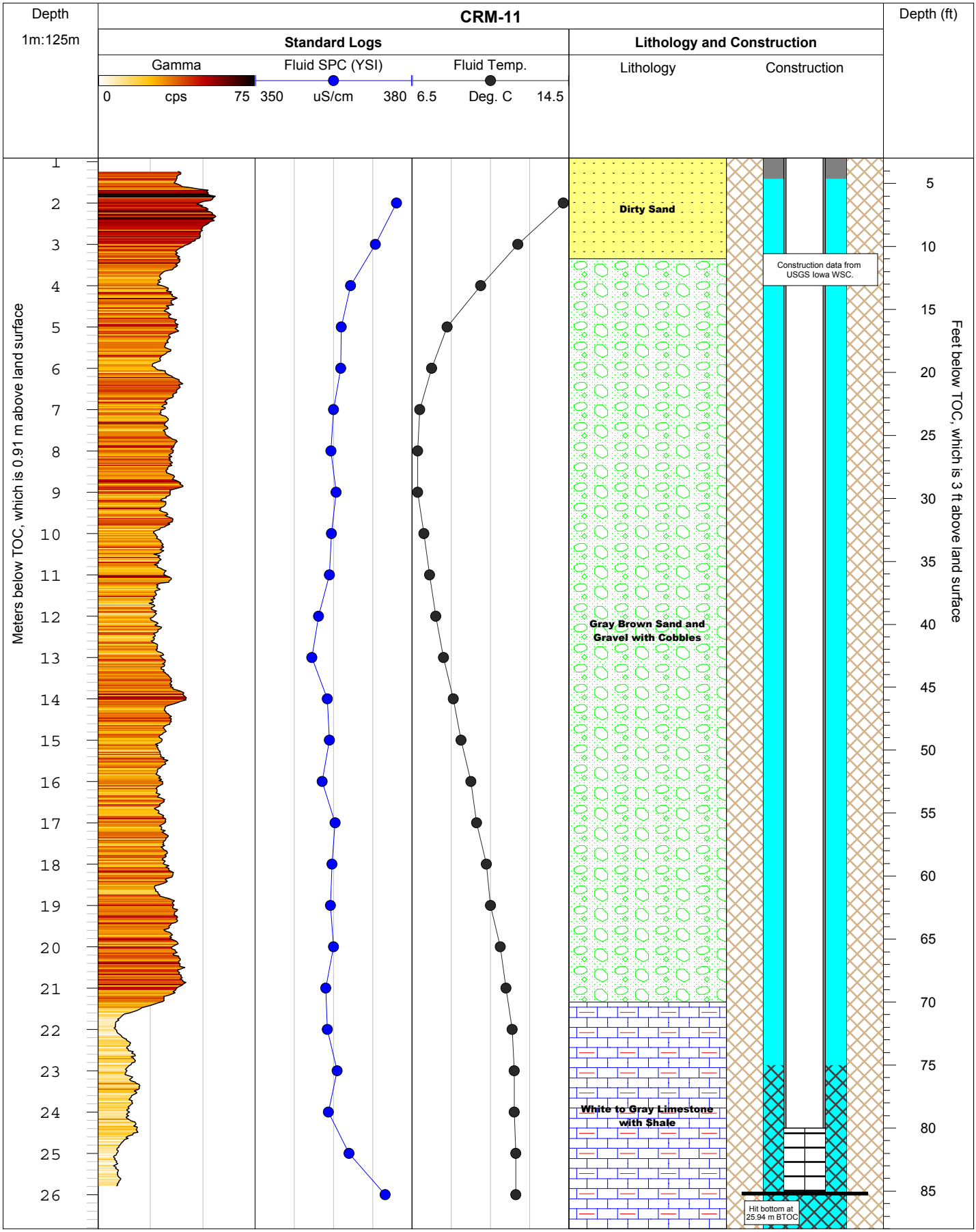
Tool manufacturer and model, tool serial number, log date and time, logging direction and speed, depth error after logging, log parameter(s) and date(s) of calibration check

Tool run 1 Mount Sopris Instruments (MSI), 2PGA, SN2339, 06/22/2017 at 11:45, logging down and up at ~4.6 m/min, round trip error 0.01 ft, measuring natural gamma, calibrated at factory

Tool run 2

Tool run 3

Remarks Sand mound had to be removed to expose wellhead. The well is no longer vertical and has become bent at a shallow depth so that the only tools that could fit was gamma and YSI. The log measurement point that was measured in the field was 0.17 meters above land surface. However, construction logs depict the casing stick-up as 0.91 m ALS. The logs assume the length of 0.91 m to be the true stick-up and log measurement point.


Depth
1m:125m
CRM-11
Depth (ft)
Standard Logs
Lithology and Construction
Gamma
Fluid SPC (YSI)
Fluid Temp.
Lithology
Construction
0
cps
75
350
uS/cm
380
6.5
Deg. C
14.5
Meters below TOC, which is 0.91 m above land surface
Feet below TOC, which is 3 ft above land surface
Dirty Sand
Gray Brown Sand and Gravel with Cobbles
White to Gray Limestone with Shale
Construction data from USGS Iowa WSC.
Hit bottom at 25.94 m BTOC