

**FIELD WORK VARIANCE**

Project Name/Number	140705	CTO/WAD	
Applicable Document	KAFB Groundwater Investigation Work Plan Part I: Field Investigation Activities Bulk Fuels Facility Spill Solid Waste Management Units ST-106 and SS-111	Date	January 19, 2011

**Problem Description:**

Drilling and well completion specifications procedures have been changed due to regulator direction and site specific geologic conditions.

**Recommended solution:**

The drilling and well completion changes are as follows:

- Work Plan Section 5.2.4.1 No. 4, replace stainless steel well screens with PVC well screens.
- Work Plan Section 5.2.4.1 No. 6, replace "PVC centralizers will be installed above and below the sump" with "PVC centralizers will be installed every hundred feet along the riser pipe"
- Work Plan Section 5.2.4.1 No. 8, replace "a bentonite seal will be installed for a thickness of 10 to 20 feet" with "a bentonite seal will be installed for a thickness of 30 to 40 feet."

A revised construction diagram is attached.

**Impact on present and completed work:**

None, the field changes have no adverse effect on the quality of the well installations.

Requested by: Dale Flores Project Geologist

**Recommended solution/disposition:**

Field changes have been implemented. The New Mexico Environment Department, Kirtland AFB, and US. Army Corp Corps were notified of the field changes on January 19th, 2011.

Clarification  Minor Change  Major Change

Signature Dale P. Agnew Date 3.3.2011  
Technical Reviewer

**Shaw Environmental Inc, Approvals:**

**If Major Change:**

Signature Dale G. Flores Date 1/24/2011  
Project/Task Manager

Signature [Signature] Date 3/3/11  
Sr. Project Manager

Signature [Signature] Date 1/24/2011  
Project QC System Manager



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### FIELD WORK VARIANCE CONTINUATION SHEET

USACE Approval:

If Major Change:

Approved

Rejected

Signature \_\_\_\_\_ Date 3/4/2011

*USACE PM or COR*

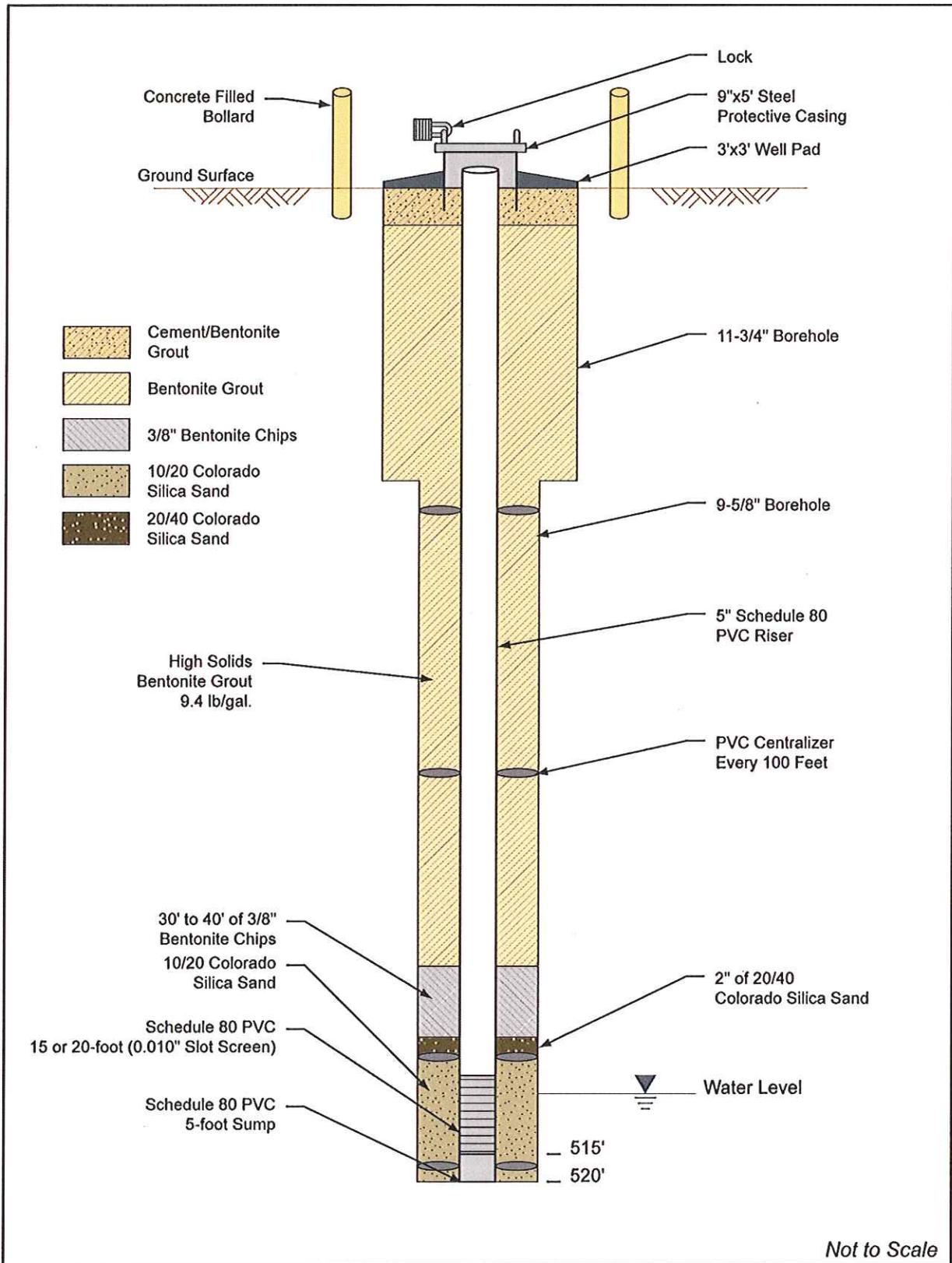
Final Description

Signature

Date

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