



FIELD WORK VARIANCE

Project Name/Number	140705	CTO/WAD	
Applicable Document	KAFB Vadose Zone Investigation Work Plan Part 1: Field Investigation Activities Bulk Fuels Facility Spill Solid Waste Management Units ST-106 and SS-111	Date	January 26, 2011

Problem Description:

Soil vapor monitoring (SVM) well drilling and well completion specifications procedures have been changed due to regulator direction and site specific geologic conditions.

Recommended solution:

The SVM drilling and well completion changes are as follows:

- Work Plan Section 5.2.11, replace "one 2-inch diameter, schedule 80 PVC" with "one 3-inch diameter, schedule 80 PVC"
- Work Plan Section 5.2.11, replace "engineered filter 8/10 graded pack" with "engineered filter 0.25"/8 graded pack"
- Work Plan Section 5.2.11, replace "The filter pack will be slurried with clean potable water and tremied into place..." with "The filter pack will tremied into place through the drive casing dry..."
- Work Plan Section 5.2.11, replace "After the last lift has hydrated for 2-hours, a high solids bentonite grout will be emplaced by tremie pipe to 1 ft below the next higher point" with "Bentonite chips will be tremied through the drive casing above the filter pack to 1 ft below the next higher point"

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 Diane Sopen Date 3.3.2011
Technical Reviewer

Shaw Environmental Inc, Approvals: If Major Change:

Signature Dale J. Flores Date 1/26/11 Signature [Signature] Date 3/3/11
Project/Task Manager Sr. Project Manager

Signature [Signature] Date 1/26/11
Project QC System Manager



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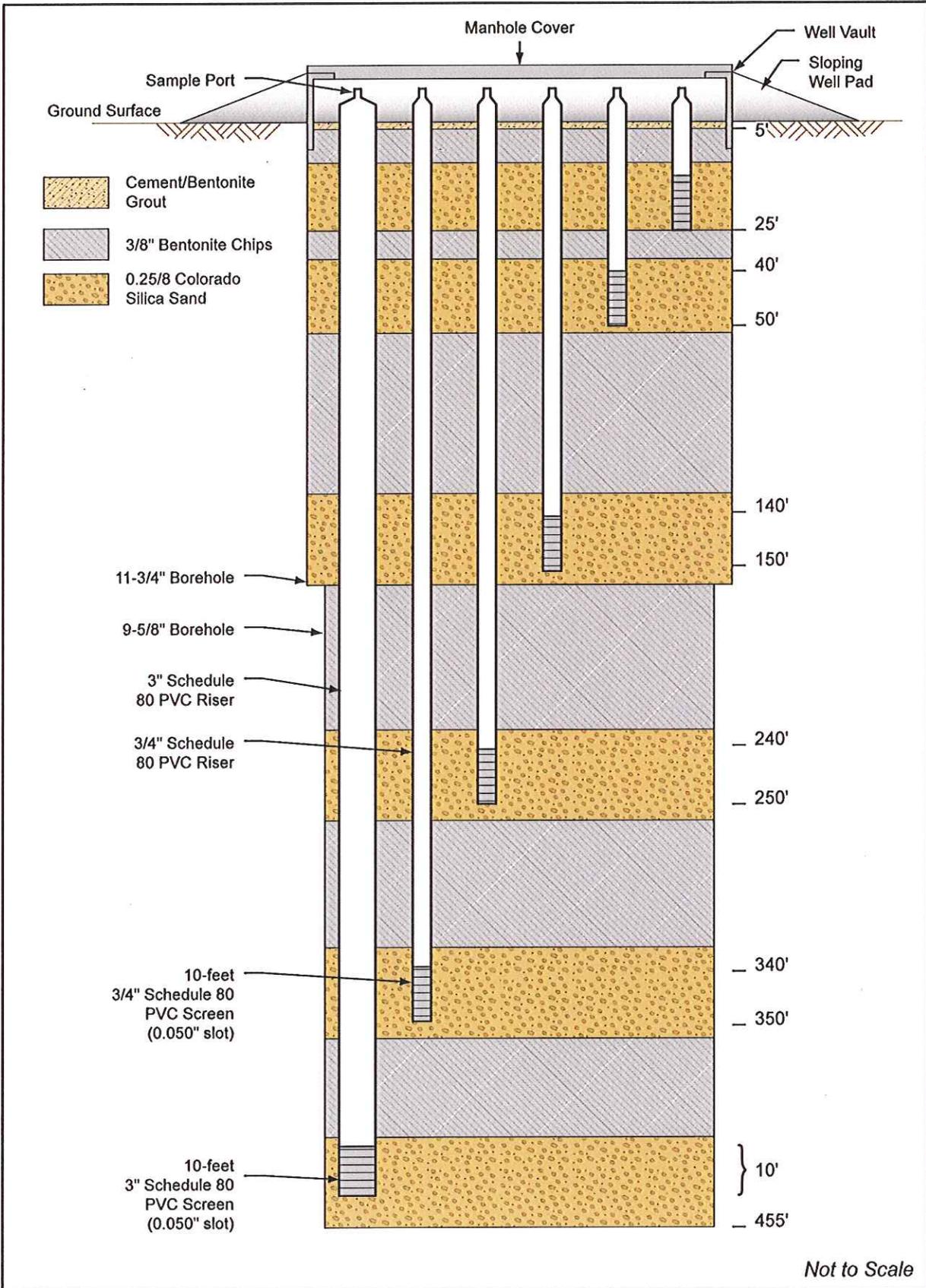
FIELD WORK VARIANCE CONTINUATION SHEET

USACE Approval: _____ *If Major Change:* _____

Approved Rejected Signature _____ Date 3/4/2011
USACE PM or COR

Final Description

Signature _____ Date _____



140705.CB010040.A4.