APPENDIX B

BORING LOGS AND WELL CONSTRUCTION LOGS

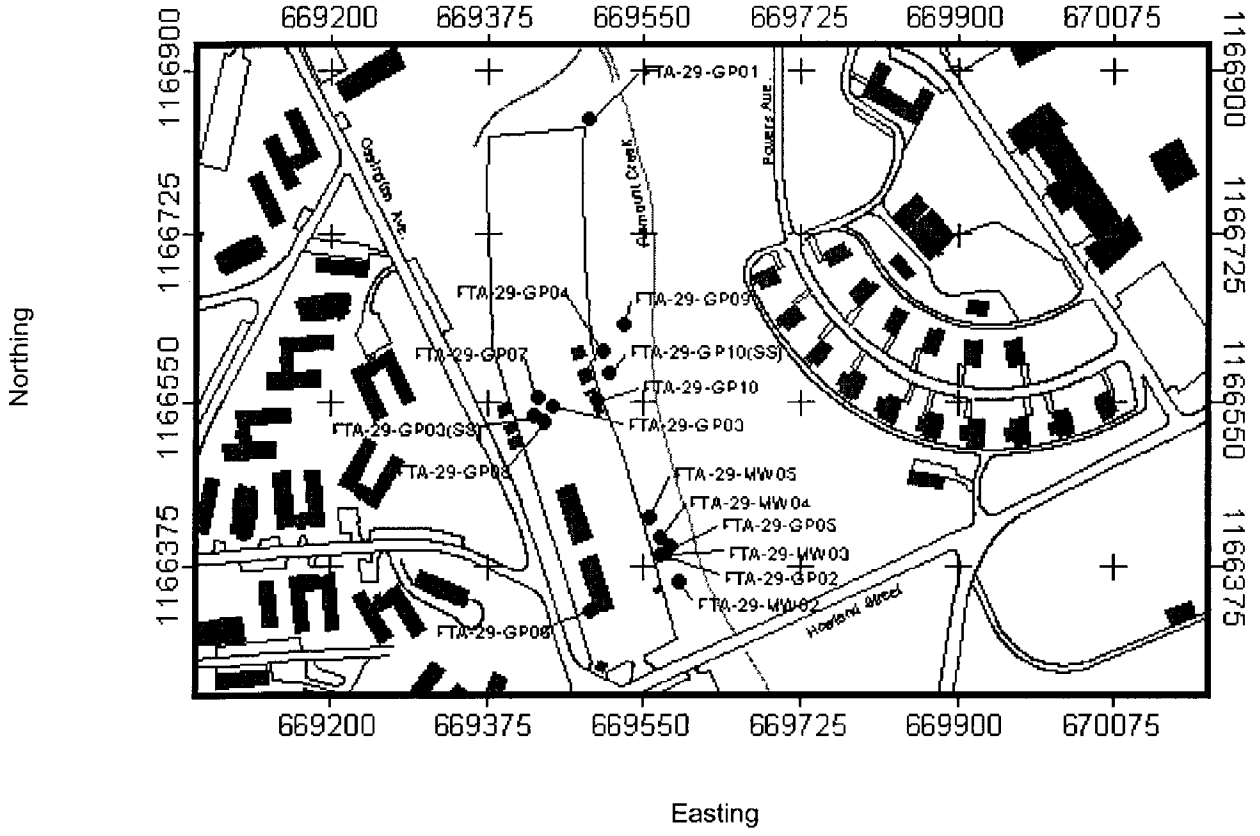
HTRW DRILLING LOG

	District: **Mobile USACE**	HOLE NUMBER FTA-29-GP01
1. Company name: **IT Corporation**	2. Drill Subcontractor: TEG	Sheet 1 of 2 sheets

3. Project: Fort McClellan	4. Location: **Calhoun County, Alabama**
5. Name of driller: Sammy McDaniel	6. Mfr. designation of drill: Geoprobe
7. Sizes and types of drilling and sampling equipment: Direct Push DP - 4'x2" Acetate-Lined Sampler	8. Hole location: 11th Chemical Motor Pool Area, Parcel 29 9. Surface elevation (feet above mean sea level): 741.02 10. Date started: 10/01/98 — 11. Date completed: 10/01/98
12. Overburden thickness (feet bgs): >9	15. Depth groundwater encountered (feet bgs): 7 Ft
13. Depth drilled into rock (feet bgs):	16. Depth to water and elapsed time after drilling completed (feet bgs):
14. Total depth of hole (feet bgs): 9	17. Other water level measurements (specify):

18. Geotechnical samples:	Collected:	Disturbed:	Undisturbed:	19. Total no. of core boxes:		
20. Samples for chemical analysis:	VOC	Metals	Other (specify)	Other (specify)	Other (specify)	21. Total core recovery:
	X	X	SVOCs			N/A
22. Disposition of hole:	Backfilled	Monitoring well	Other (specify)	Geologist:		
	X	Micro-well		D. Peterman		

LOCATION SKETCH/COMMENTS:



Project: Fort McClellan	bgs= below ground surface NA = Not applicable	Hole no.: FTA-29-GP01

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: FTA-29-GP01

Project: Fort McClellan | Geologist: D. Peterman | Sheet 2 of 2 sheets

Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow counts (g)	Remarks (h)
	0	cl: CLAY, some Silt, brown, medium plasticity, soft, highly organic with roots and grass, Shale fragments.	cl		Organic Vapor = 0.0ppm		AA0001		Rec 1.0'/1.0' (0-1' bgs)
740	1	cl: CLAY, some Silt, soft, low plasticity, soft, black precipitate.	cl						Rec 2.1'/4.0' (1-5' bgs)
	2	cl: CLAY, some Sand, coarse Quartz grains, slightly damp to wet.							
	3		cl						
	4								
	5	ch: CLAY, very soft, gray, high plasticity, black organic precipitate, Shale fragments at 5.5' , Quartz coarse grains are interbedded, moist to wet at 8.0 ft.							Odor at 4.5' bgs Rec 2.5'/4.0' (5-9' bgs)
735	6								
	7		ch				AA0002		
	8								Moist to wet at 8' bgs Direct push refusal at 9' bgs Bottom of borehole at 9' bgs
	9								

HTRW DRILLING LOG

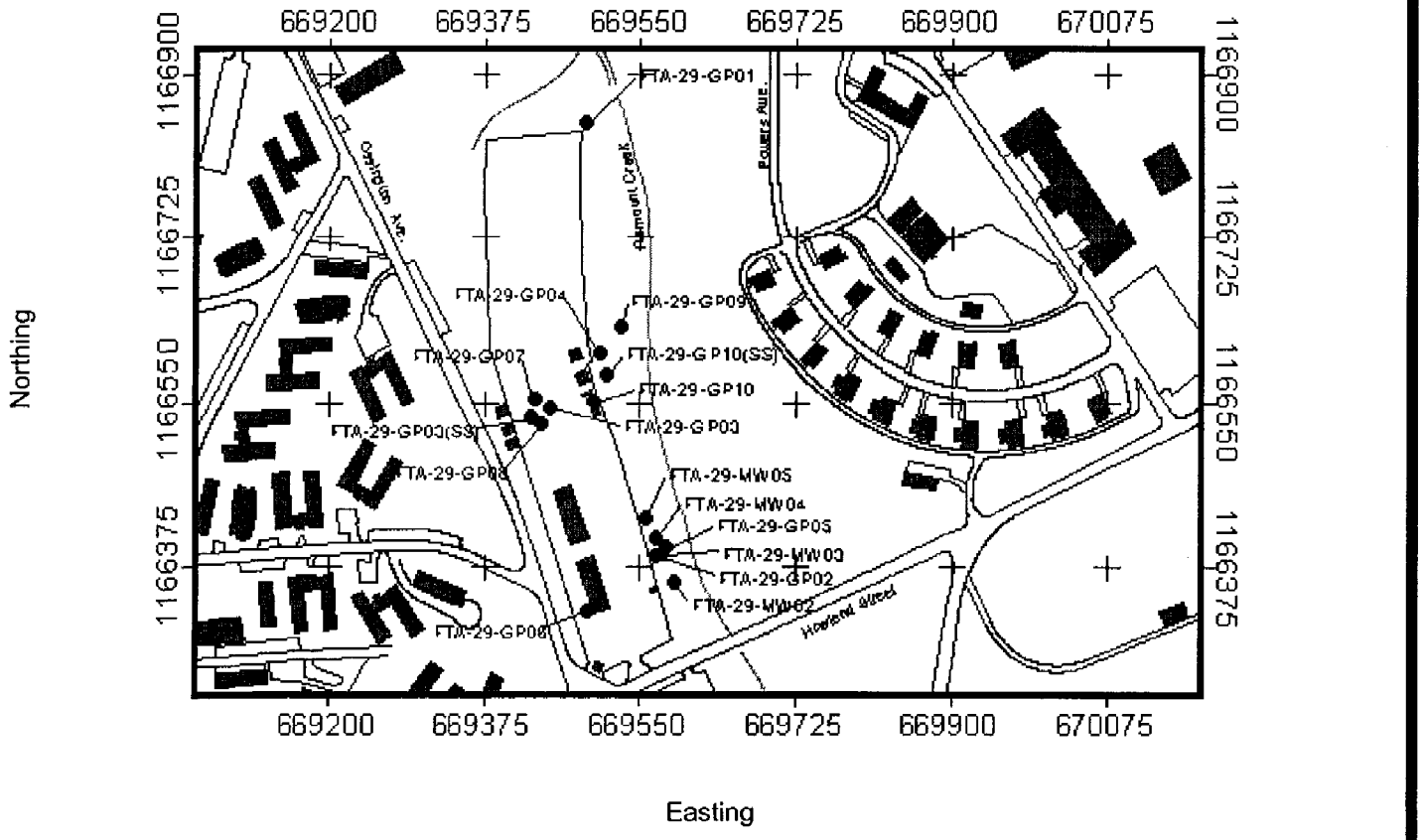
District: **Mobile USACE**

HOLE NUMBER: FTA-29-GP02

1. Company name: **IT Corporation**	2. Drill Subcontractor: TEG/ MILLER DRILLING
Sheet 1 of 3 sheets	
3. Project: Fort McClellan	4. Location: **Calhoun County, Alabama**
5. Name of driller: Sammy McDaniel/Doug Bishop	6. Mfr. designation of drill: Geoprobe/CME-550 ATV
7. Sizes and types of drilling and sampling equipment: Direct Push, Hollow Stem Auger DP - 2'x2" Acetate-Lined Sampler HSA - 5'x8.25" OD Augers, 2'x2" Steel Split Spoons	8. Hole location: 11th Chemical Motor Pool Area, Parcel 29 9. Surface elevation (feet above mean sea level): 754.82 10. Date started: 10/01/98 — 11. Date completed: 12/14/98
12. Overburden thickness (feet bgs): 10.5	15. Depth groundwater encountered (feet bgs): 10 Ft
13. Depth drilled into rock (feet bgs): 0	16. Depth to water and elapsed time after drilling completed (feet bgs):
14. Total depth of hole (feet bgs): 10.5	17. Other water level measurements (specify):

18. Geotechnical samples:	Collected:	Disturbed:	Undisturbed:	19. Total no. of core boxes:		
20. Samples for chemical analysis:	VOC	Metals	Other (specify)	Other (specify)	Other (specify)	21. Total core recovery:
	X	X	X			N/A
22. Disposition of hole:	Backfilled	Monitoring well	Other (specify)	Geologist:		
		Temporary		D. Peterman		

LOCATION SKETCH/COMMENTS:



Project: Fort McClellan

bgs= below ground surface
NA = Not applicable

Hole no.: FTA-29-GP02

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: FTA-29-GP02

Project: Fort McClellan | Geologist: D. Peterman | Sheet 2 of 3 sheets

Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow counts (g)	Remarks (h)
	0	cl: CLAY, some Silt, low plasticity, organics, soft, darkish red to brown, increased to medium plasticity w/ depth, minor fine Quartz grains, becoming dark reddish brown, slightly damp, soft at 1.5'.			Organic Vapor = 0.9ppm		AA0003		Rec 1.0'/1.0' (0-1' bgs)
	1				Organic Vapor = 3.4ppm				Rec 3.0'/4.0' (1-5' bgs)
	2		cl		Organic Vapor = 0.0ppm				
	3				Organic Vapor = 0.0ppm				
	4				Organic Vapor = 0.0ppm				
750		cl: CLAY, some Silt, medium plasticity, very soft, gray, mottled yellow to orange, slightly damp, organic black precipitate and roots.							
	5				Organic Vapor = 4.4ppm				Rec 2.2'/3.0' (5-8' bgs)
									Strong odor encountered during augering
	6		cl		Organic Vapor = 69.7ppm		AA0006		
	7				Organic Vapor = 79.0ppm				Direct push refusal at 8' bgs
	8	gm: GRAVEL, hard, dry, light gray, little Silt.			Organic Vapor = 0.0ppm			50/.2'	Rec 0.1'/0.2' (8-10' bgs)
	9		gm						

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: FTA-29-GP02

Project: Fort McClellan | Geologist: D. Peterman | Sheet 3 of 3 sheets

Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow counts (g)	Remarks (h)
745									
	10	sh: SHALE, dark gray, wet.	sh		Organic Vapor =			38 50/.5'	Rec 0.6'/1.0' (10-12' bgs) Auger refusal at 10' bgs

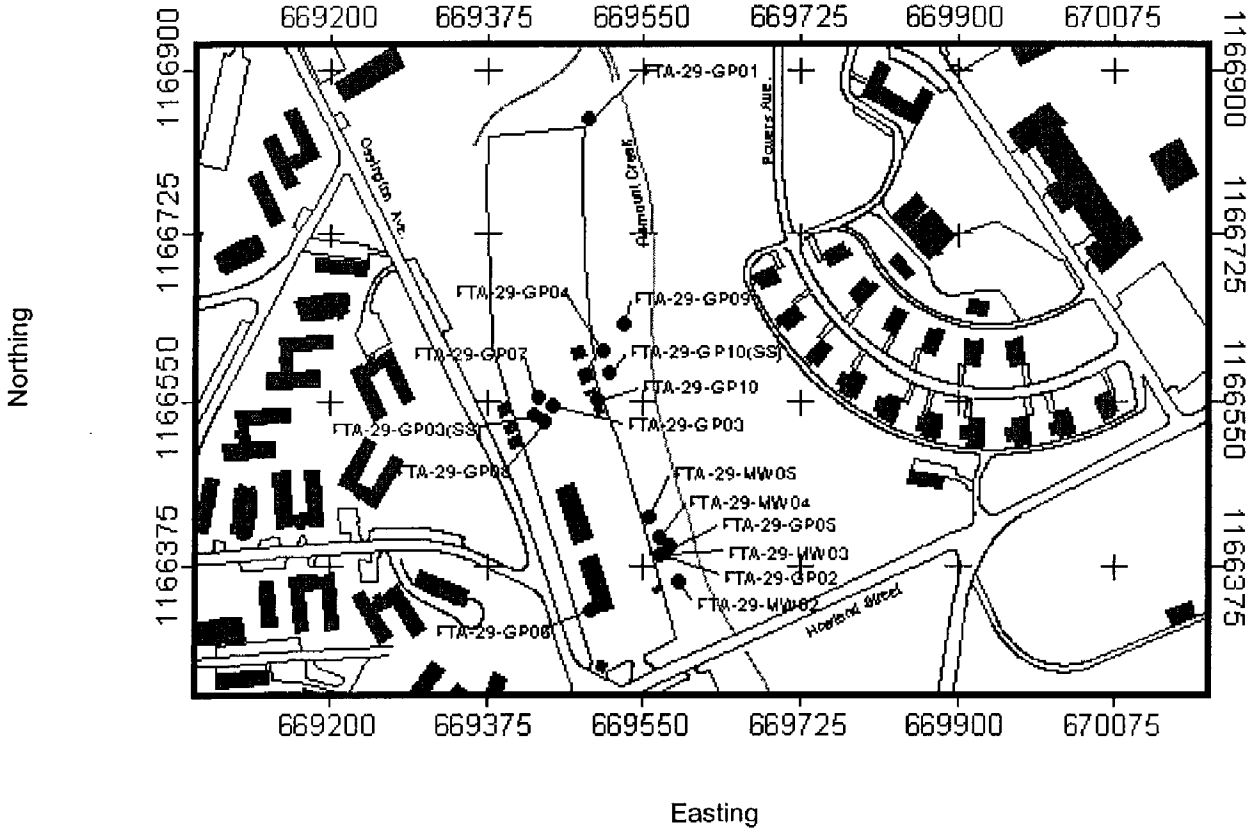
HTRW DRILLING LOG

	District: **Mobile USACE**	HOLE NUMBER FTA-29-GP03
1. Company name: **IT Corporation**	2. Drill Subcontractor: TEG/MILLER DRILLING	Sheet 1 of 5 sheets

3. Project: Fort McClellan	4. Location: **Calhoun County, Alabama**
5. Name of driller: Sammy McDaniel/Jeff Brownfield	6. Mfr. designation of drill: Geoprobe/CME-85
7. Sizes and types of drilling and sampling equipment: Direct Push, Hollow Stem Auger DP - 2'x2" Acetate-Lined Sampler HSA - 5'x8.25" OD Augers, 2'x2" Steel Split Spoons	8. Hole location: 11th Chemical Motor Pool Area, Parcel 29 9. Surface elevation (feet above mean sea level): 755.47 10. Date started: 09/30/98 — 11. Date completed: 12/07/98
12. Overburden thickness (feet bgs): >38	15. Depth groundwater encountered (feet bgs): 29 Ft
13. Depth drilled into rock (feet bgs):	16. Depth to water and elapsed time after drilling completed (feet bgs):
14. Total depth of hole (feet bgs): 38	17. Other water level measurements (specify):

18. Geotechnical samples:	Collected:	Disturbed:	Undisturbed:	19. Total no. of core boxes:		
20. Samples for chemical analysis:	VOC	Metals	Other (specify)	Other (specify)	Other (specify)	21. Total core recovery:
	X	X	X			N/A
22. Disposition of hole:	Backfilled	Monitoring well	Other (specify)	Geologist:		
		Temporary		D. Peterman/B. Rhodes		

LOCATION SKETCH/COMMENTS:



HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: FTA-29-GP03

Project: Fort McClellan | Geologist: D. Peterman/B. Rhodes | Sheet 2 of 5 sheets

Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow counts (g)	Remarks (h)
755	0	cl: CLAY, some Silt, low to medium plasticity, medium stiff, slightly damp, mottled reddish brown to yellow, Gravel and Shale, dry, soft.	cl		Organic Vapor = 0.0ppm		AA0007		Rec 2.1'/3.0' (0-3' bgs)
	1	gc: GRAVEL, well sorted (fill), Quartz.	gc		Organic Vapor = 0.0ppm				
	2	cl: CLAY, some Sand, fine to coarse grained, Quartz, organics, "waste water odor".	cl		Organic Vapor = 0.0ppm		AA0008		Direct push refusal at 3' bgs
	3	cl: CLAY, light orange to gray, medium plasticity, medium to coarse grain Gravels (20%), soft, dry			Organic Vapor = 0.0ppm			4 10 12 16	Rec 1.5'/2.0' (3-5' bgs)
	4		cl						
	5	cl: CLAY, gray, medium plasticity, medium to coarse grain Gravels (20%), soft, dry.			Organic Vapor = 0.0ppm			12 26 46 56	Rec 1.5'/2.0' (5-7' bgs)
750	6		cl						
	7	sh: SHALE, gray, weathered, brittle			Organic Vapor = 0.0ppm			28 50	Rec 1.5'/2.0' (7-9' bgs)
	8		sh						
	9	sh: SHALE, gray, weathered, brittle.						23 50	Rec 1.0'/2.0' (9-11' bgs)

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: FTA-29-GP03

Project: Fort McClellan | Geologist: D. Peterman/B. Rhodes | Sheet 3 of 5 sheets

Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow counts (g)	Remarks (h)
	10		sh		Organic Vapor = 0.0ppm				
745									
	11	NA: No sample collected for lithologic description.							
	12		NA						
	13	sh: SHALE, gray to black, brittle, dry.							Description from HSA drill cuttings (13-38' bgs)
	14								
	15								
740									
	16								
	17								
	18								
	19								

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: FTA-29-GP03

Project: Fort McClellan | Geologist: D. Peterman/B. Rhodes | Sheet 4 of 5 sheets

Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow counts (g)	Remarks (h)
	20								
735			sh						
	21								
	22								
	23								
	24								
	25								
730									
	26								
	27								
	28	sh: SHALE, black, damp zone at 29'.							
			sh						
	29	sh: SHALE, black, weathered, dry to damp.							

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: FTA-29-GP03

Project: Fort McClellan | Geologist: D. Peterman/B. Rhodes | Sheet 5 of 5 sheets

Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow counts (g)	Remarks (h)
	30								
725									
	31								
	32								
	33								
			sh						
	34								
	35								
720									
	36								
	37								Auger refusal at 38' bgs
									Bottom of borehole at 38' bgs
	38								

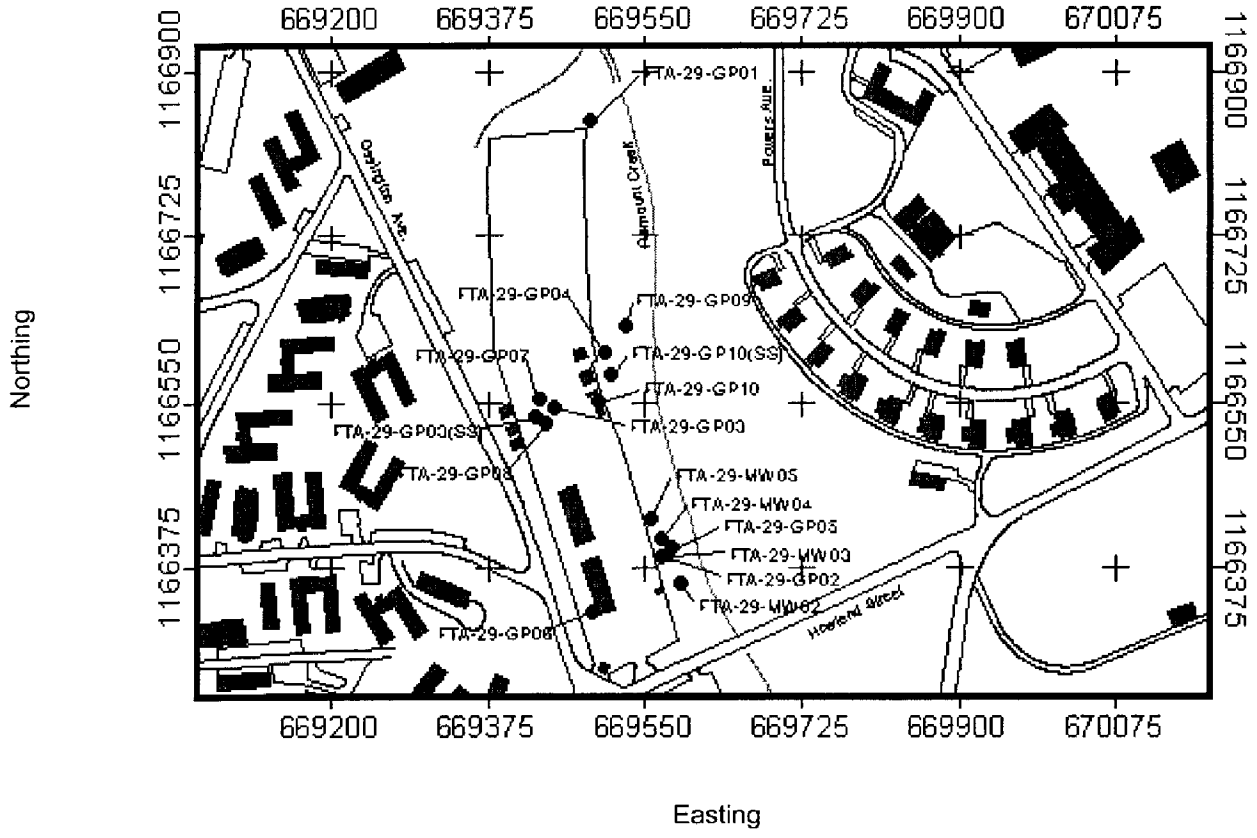
HTRW DRILLING LOG

District: **Mobile USACE**		HOLE NUMBER FTA-29-GP04
1. Company name: **IT Corporation**	2. Drill Subcontractor: TEG	Sheet 1 of 3 sheets

3. Project: Fort McClellan	4. Location: **Calhoun County, Alabama**
5. Name of driller: Sammy McDaniel	6. Mfr. designation of drill: Geoprobe
7. Sizes and types of drilling and sampling equipment: Direct Push DP - 2'x2" Acetate-Lined Sampler	8. Hole location: 11th Chemical Motor Pool Area, Parcel 29 9. Surface elevation (feet above mean sea level): 750.88 10. Date started: 09/30/98 — 11. Date completed: 09/30/98
12. Overburden thickness (feet bgs): >10	15. Depth groundwater encountered (feet bgs): 8 Ft
13. Depth drilled into rock (feet bgs):	16. Depth to water and elapsed time after drilling completed (feet bgs):
14. Total depth of hole (feet bgs): 10	17. Other water level measurements (specify):

18. Geotechnical samples:	Collected:	Disturbed:	Undisturbed:	19. Total no. of core boxes:		
20. Samples for chemical analysis:	VOC	Metals	Other (specify)	Other (specify)	Other (specify)	21. Total core recovery:
	X	X	X			N/A
22. Disposition of hole:	Backfilled	Monitoring well	Other (specify)	Geologist:		
	X	Micro-well		D. PETERMAN		

LOCATION SKETCH/COMMENTS:



HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: FTA-29-GP04

Project: Fort McClellan | Geologist: D. PETERMAN | Sheet 2 of 3 sheets

Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow counts (g)	Remarks (h)
750	0	cl: CLAY, reddish brown to brown, organic, soft, low to medium plasticity, slightly damp.	cl		Organic Vapor = 0.0ppm		AA0009		Rec 1.0'/1.0' (0-1' bgs)
	1	cl: CLAY, some Silt, friable, dry, low plasticity, shaley fragments, mottled with reddish to gray brown, black organic precipitate, medium stiff to soft.			Organic Vapor = 0.0ppm				Rec 1.8'/4.0' (1-5' bgs)
	2				Organic Vapor = 0.0ppm				
	3		cl		Organic Vapor = 0.0ppm				
	4				Organic Vapor = 0.0ppm				
	5	cl: CLAY, slightly damp to moist, reddish to yellowish brown, platey.			Organic Vapor = 0.0ppm				Rec not logged (5-10' bgs)
745	6				Organic Vapor = 0.0ppm				
	7		cl		Organic Vapor = 0.0ppm		AA0010		
	8				Organic Vapor = 0.0ppm				
	9				Organic Vapor = 0.0ppm				Direct push refusal at 10' bgs Bottom of borehole at 10' bgs

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: FTA-29-GP04

Project: Fort McClellan | Geologist: D. PETERMAN | Sheet 3 of 3 sheets

Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow counts (g)	Remarks (h)
	10								10

HTRW DRILLING LOG

District: **Mobile USACE**

HOLE NUMBER: FTA-29-GP05

1. Company name: **IT Corporation**

2. Drill Subcontractor: TEG/MILLER DRILLING

Sheet 1 of 3 sheets

3. Project: Fort McClellan

4. Location: **Calhoun County, Alabama**

5. Name of driller: Sammy McDaniel/Jeff Brownfield

6. Mfr. designation of drill: Geoprobe/CME-85

7. Sizes and types of drilling and sampling equipment:
Direct Push, Hollow Stem Auger
DP - 2'x2" Acetate-Lined Sampler
HSA - 5'x8.25" OD Augers, 2'x2" Steel Split Spoons

8. Hole location: 11th Chemical Motor Pool Area, Parcel 29

9. Surface elevation (feet above mean sea level): 751.24

10. Date started: 09/30/98

11. Date completed: 12/07/98

12. Overburden thickness (feet bgs): >15

15. Depth groundwater encountered (feet bgs): 8 Ft

13. Depth drilled into rock (feet bgs):

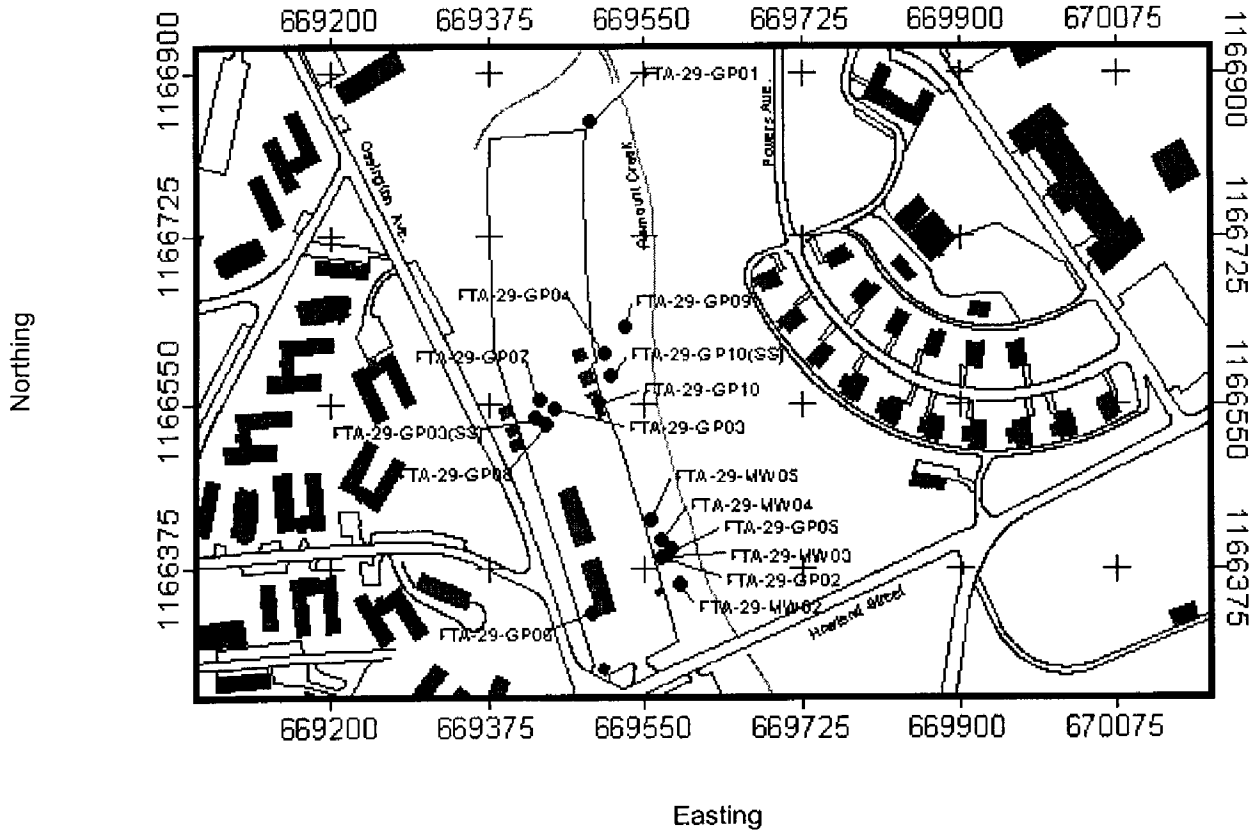
16. Depth to water and elapsed time after drilling completed (feet bgs):

14. Total depth of hole (feet bgs): 15

17. Other water level measurements (specify):

18. Geotechnical samples:	Collected:	Disturbed:	Undisturbed:	19. Total no. of core boxes:		
20. Samples for chemical analysis:	VOC	Metals	Other (specify)	Other (specify)	Other (specify)	21. Total core recovery:
	X	X	X			N/A
22. Disposition of hole:	Backfilled	Monitoring well	Other (specify)	Geologist:		
		Temporary		D. Peterman/B. Rhodes		

LOCATION SKETCH/COMMENTS:



HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: FTA-29-GP05

Project: Fort McClellan | Geologist: D. Peterman/B. Rhodes | Sheet 2 of 3 sheets

Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow counts (g)	Remarks (h)
	0	cl: CLAY, some Silt, low plasticity, slightly damp, soft, coarse Quartz grains, interbedded yellowish brown to brown, Quartzite fragments (.5"-1"), friable.			Organic Vapor = 0.0ppm				Rec 2.8'/4.0' (0-4' bgs)
750	1				Organic Vapor = 0.0ppm				
	2		cl		Organic Vapor = 0.0ppm				
	3				Organic Vapor = 0.0ppm				
	4	cl: CLAY, moist, mottled reddish brown to brown, Shale and Quartzite fragments.			Organic Vapor = 0.0ppm				Rec 1.7'/4.0' (4-8' bgs)
	5				Organic Vapor = 0.0ppm				
745	6		cl		Organic Vapor = 0.0ppm				
	7				Organic Vapor = 0.0ppm				
	8	cl: CLAY, some Silt, red staining, coarse Quartz grains to large fragments interbedded, soft, gravelly.			Organic Vapor = 0.0ppm				Rec 1.3'/2.0' (8-10' bgs)
	9		cl		Organic Vapor = 0.0ppm		AA0011		Direct push refusal at 10' bgs

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: FTA-29-GP05

Project: Fort McClellan | Geologist: D. Peterman/B. Rhodes | Sheet 3 of 3 sheets

Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow counts (g)	Remarks (h)
	10	sh: SHALE, gray, saturated.							Description from HSA drill cuttings
740	11		sh						
	12	sh: SHALE, black, brittle, saturated.			Organic Vapor = 0.0ppm			25 50	Rec 1.0'/1.0' (12-13' bgs)
	13		sh						Description from HSA drill cuttings
	14								Bottom of borehole at 15' bgs
	15								

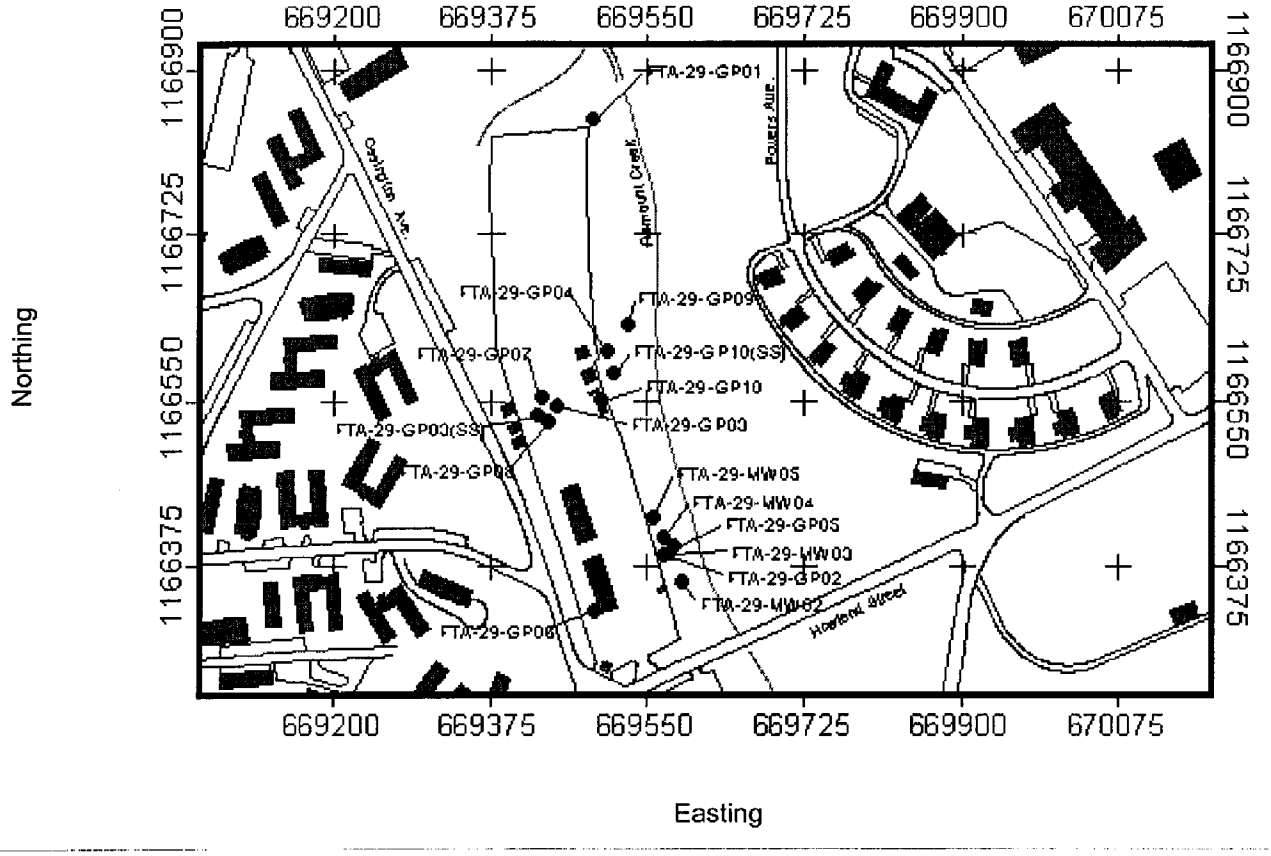
HTRW DRILLING LOG

	District: **Mobile USACE**	HOLE NUMBER FTA-29-GP06
1. Company name: **IT Corporation**	2. Drill Subcontractor: TEG/MILLER DRILLING	Sheet 1 of 5 sheets

3. Project: Fort McClellan	4. Location: **Calhoun County, Alabama**
5. Name of driller: Sammy McDaniel/Doug Bishop	6. Mfr. designation of drill: Geoprobe/CME-550 ATV
7. Sizes and types of drilling and sampling equipment: Direct Push, Hollow Stem Auger DP - 2'x2" Acetate-Lined Sampler HSA - 5'x8.25" OD Augers, 2'x2" Steel Split Spoons	8. Hole location: 11th Chemical Motor Pool Area, Parcel 29 9. Surface elevation (feet above mean sea level): 761.92 10. Date started: 09/30/98 — 11. Date completed: 12/01/98
12. Overburden thickness (feet bgs): >32	15. Depth groundwater encountered (feet bgs):
13. Depth drilled into rock (feet bgs):	16. Depth to water and elapsed time after drilling completed (feet bgs):
14. Total depth of hole (feet bgs): 32	17. Other water level measurements (specify):

18. Geotechnical samples:	Collected:	Disturbed:	Undisturbed:	19. Total no. of core boxes:		
20. Samples for chemical analysis:	VOC	Metals	Other (specify)	Other (specify)	Other (specify)	21. Total core recovery:
	X	X	X			N/A
22. Disposition of hole:	Backfilled	Monitoring well	Other (specify)	Geologist:		
		Temporary		D. Peterman		

LOCATION SKETCH/COMMENTS:



HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: FTA-29-GP06

Project: Fort McClellan | Geologist: D. Peterman | Sheet 2 of 5 sheets

Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow counts (g)	Remarks (h)
	0	cl: CLAY, dry, medium stiff, low plasticity, mottled, reddish brown to yellowish brown, organic black precipitate.							Rec 2.0'/4.0' (0-4' bgs)
	1								
760	2				Organic Vapor = 0.0ppm				
	3		cl		Organic Vapor = 0.3ppm				
	4								Rec 1.8'/4.0' (4-8' bgs)
	5								
	6	cl: Medium plasticity, CLAY, some Silt, stiff, mottled yellowish brown, dry, petroleum odor, Quartzite and Shale fragments.			Organic Vapor = 1605.0p		AA0012		
755	7		cl		Organic Vapor = 12.6ppm				
	8	cl: Medium stiff, CLAY, shaley at 9.0'-9.4', friable w/depth, Quartzite fragments 0.5"-2".			Organic Vapor = 0.0ppm				Rec 2.0'/2.0' (8-10' bgs)
	9		cl		Organic Vapor = 1.1ppm				Direct push refusal at 10' bgs

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: FTA-29-GP06

Project: Fort McClellan | Geologist: D. Peterman | Sheet 3 of 5 sheets

Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow counts (g)	Remarks (h)
	10	sh: SHALE, dark gray, weathered, dry.	sh					13 22 40 50/.5'	Rec 2.0'/2.0' (9-11' bgs)
	11	NA: No sample collected for lithologic description.							
750	12		NA						
	13								
	14	sh: SHALE, dark gray, weathered, little Quartz,dry.			Organic Vapor = 0.0ppm			25 50/.25'	Rec .5'/1.0' (14-16' bgs)
	15								
	16		sh						Description from HSA drill cuttings (16-32' bgs)
745	17								
	18								
	19	sh: SHALE, dark gray, weathered, dry.			Organic Vapor = 0.0ppm				

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: FTA-29-GP06

Project: Fort McClellan | Geologist: D. Peterman | Sheet 4 of 5 sheets

Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow counts (g)	Remarks (h)
	20								
	21								
740	22		sh						
	23								
	24								Groundwater encountered at 24' bgs
	25	sh: SHALE, dark gray, weathered, wet.			Organic Vapor = 0.0ppm				
	26								
735	27		sh						
	28								
	29								

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: FTA-29-GP06

Project: Fort McClellan | Geologist: D. Peterman | Sheet 5 of 5 sheets

Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow counts (g)	Remarks (h)
	30	sh: SHALE, dark gray, weathered, wet.			Organic Vapor = 0.0ppm				30
	31		sh						TD is 8' below saturated zone Bottom of borehole at 32' bgs 31
730	32								32

HTRW DRILLING LOG

District: **Mobile USACE**

HOLE NUMBER: FTA-29-GP07

1. Company name: **IT Corporation**

2. Drill Subcontractor: TEG/MILLER DRILLING

Sheet 1 of 5 sheets

3. Project: Fort McClellan

4. Location: **Calhoun County, Alabama**

5. Name of driller: Sammy McDaniel/Doug Bishop

6. Mfr. designation of drill: Geoprobe/CME-550 ATV

7. Sizes and types of drilling and sampling equipment:
Direct Push, Hollow Stem Auger
DP - 2'x2" Acetate-Lined Sampler
HSA - 5'x8.25" OD Augers, 2'x2" Steel Split Spoons

8. Hole location: 11th Chemical Motor Pool Area, Parcel 29

9. Surface elevation (feet above mean sea level): 756.74

10. Date started: 09/30/98

11. Date completed: 12/02/98

12. Overburden thickness (feet bgs): >30

15. Depth groundwater encountered (feet bgs): 7 Ft

13. Depth drilled into rock (feet bgs):

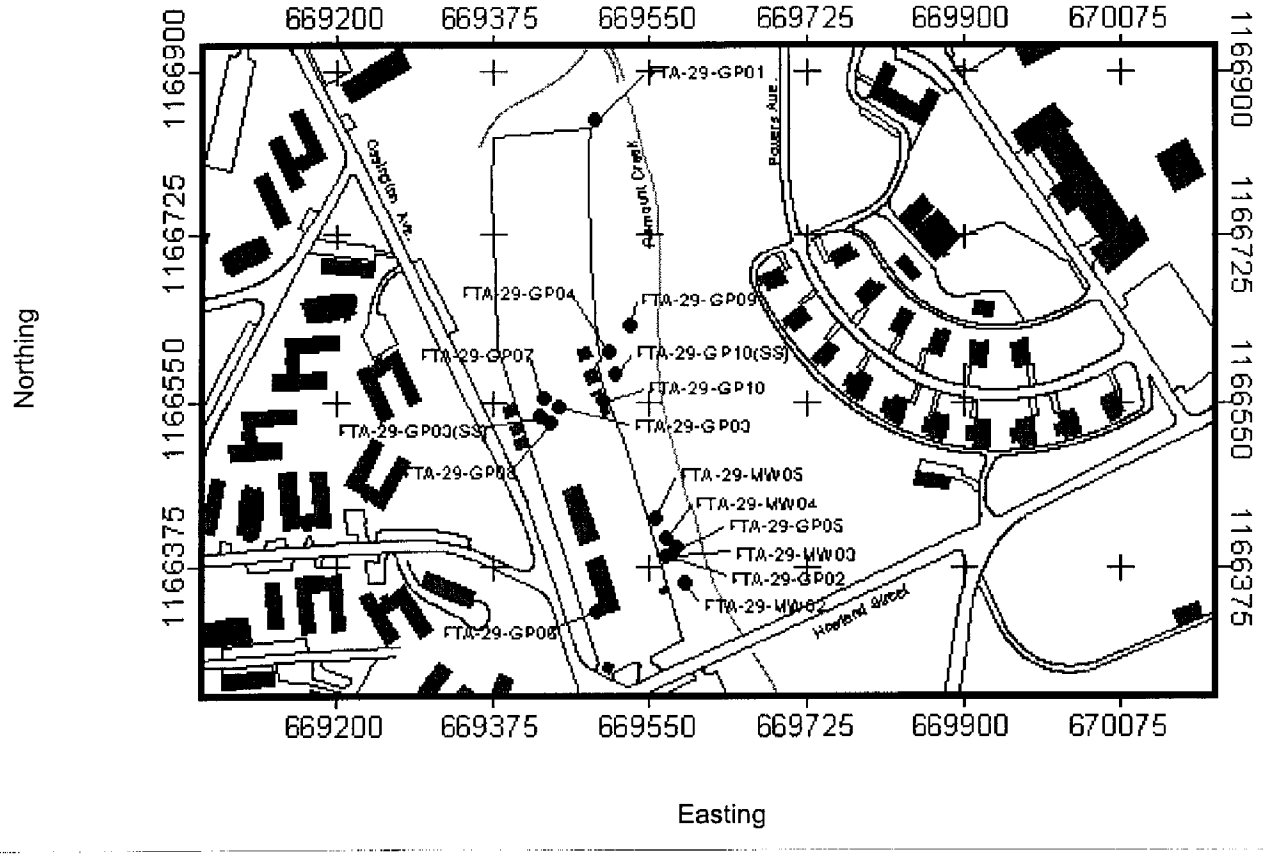
16. Depth to water and elapsed time after drilling completed (feet bgs):

14. Total depth of hole (feet bgs): 30

17. Other water level measurements (specify):

18. Geotechnical samples:	Collected:	Disturbed:	Undisturbed:	19. Total no. of core boxes:		
20. Samples for chemical analysis:	VOC	Metals	Other (specify)	Other (specify)	Other (specify)	21. Total core recovery:
	X	X	X			N/A
22. Disposition of hole:	Backfilled	Monitoring well	Other (specify)	Geologist:		
	Temporary			D. Peterman		

LOCATION SKETCH/COMMENTS:



Project: Fort McClellan

bgs= below ground surface
NA = Not applicable

Hole no.: FTA-29-GP07

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: FTA-29-GP07

Project: Fort McClellan | Geologist: D. Peterman | Sheet 2 of 5 sheets

Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow counts (g)	Remarks (h)
	0	cl: GRAVEL and CLAY, reddish brown.	cl						Rec 2.4'/4.0' (0-4' bgs)
	1	cl: CLAY, some Sand, coarse Quartz sand, Quartzite fragments.	cl		Organic Vapor = 0.0ppm				
		cl: Weathered QUARTZITE fragments.							
755			cl						
	2				Organic Vapor = 1.7ppm				
		cl: CLAY, medium tight, medium plasticity, gray.							
	3		cl		Organic Vapor = 0.7ppm				
	4	cl: CLAY, stiff, gray to reddish brown.			Organic Vapor = 0.0ppm				Rec 2.1'/4.0' (4-8' bgs)
	5		cl						
	6				Organic Vapor = 0.0ppm				
		cl: CLAY, damp to moist, soft.							
750									
	7		cl		Organic Vapor = 0.0ppm				
		cl: Friable, shaley, CLAY, gray to dark gray, low plasticity, grading to a medium stiff, reddish brown at 9.6'-10'.							
	8				Organic Vapor = 0.0ppm				Rec 2/2'/2.0' (8-10' bgs)
	9		cl		Organic Vapor = 0.0ppm		AA0013		Direct push refusal at 10' bgs

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: FTA-29-GP07

Project: Fort McClellan | Geologist: D. Peterman | Sheet 3 of 5 sheets

Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow counts (g)	Remarks (h)
	10	sm: Light brown fine SAND and Silt, some Clay, wet to 10.5'	sm		Organic Vapor = 0.0ppm			3 30 50/.5'	Rec 1.3'/1.5' (10-12' bgs)
		sh: SHALE, dark gray and light brown, weathered, dry.							
	11		sh		Organic Vapor = 0.0ppm				
745		NA: No sample collected for lithologic description.							
	12								
			NA						
	13								
	14	sh: SHALE, dark gray and light brown, weathered, dry.			Organic Vapor = 0.0ppm			50/.4'	Rec 0.25'/0.4' (14-16' bgs)
	15								
	16								Description from HSA drill cuttings (16-30' bgs)
740									
	17		sh						
	18								
	19								

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: FTA-29-GP07

Project: Fort McClellan | Geologist: D. Peterman | Sheet 4 of 5 sheets

Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow counts (g)	Remarks (h)
	20	sh: SHALE, dark gray and light brown, weathered, dry.			Organic Vapor = 0.0ppm				
	21								
735	22		sh						Cuttings damp at 22' bgs
	23								Water return from auger at 23' bgs
	24								
	25	sh: SHALE, dark gray and light brown, weathered, wet.			Organic Vapor = 0.0ppm				
	26								
730	27		sh						
	28								
	29	sh: SHALE, dark gray and light brown, weathered, wet.							TD 8' below first water
			sh						Bottom of borehole at 30' bgs

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: FTA-29-GP07

Project: Fort McClellan | Geologist: D. Peterman | Sheet 5 of 5 sheets

Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow counts (g)	Remarks (h)
	30								30

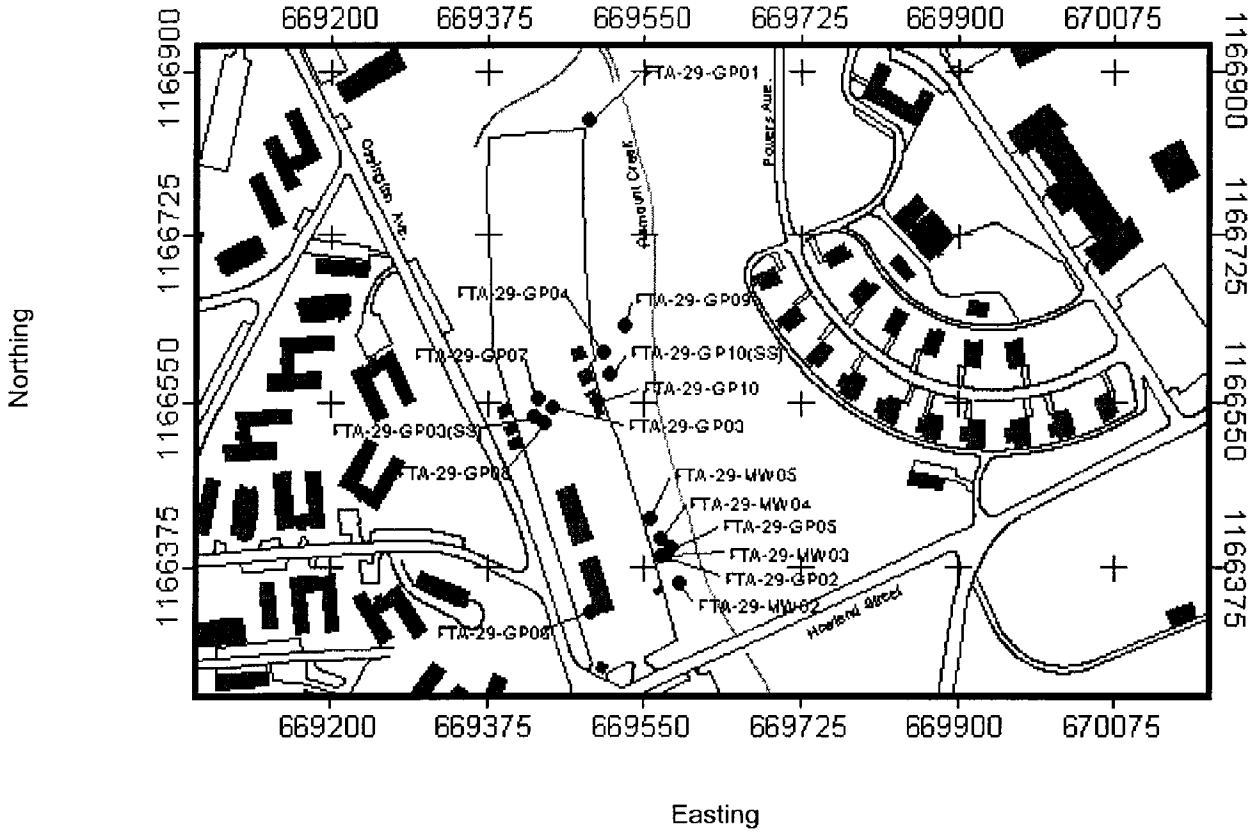
HTRW DRILLING LOG

District: **Mobile USACE**		HOLE NUMBER FTA-29-GP08
1. Company name: **IT Corporation**	2. Drill Subcontractor: TEG/MILLER DRILLING	Sheet 1 of 5 sheets

3. Project: Fort McClellan	4. Location: **Calhoun County, Alabama**
5. Name of driller: Sammy McDaniel/Doug Bishop	6. Mfr. designation of drill: Geoprobe/CME-550 ATV
7. Sizes and types of drilling and sampling equipment: Direct Push, Hollow Stem Auger DP - 2'x2" Acetate-Lined Sampler HSA - 5'x8.25" OD Augers, 2'x2" Steel Split Spoons	8. Hole location: 11th Chemical Motor Pool Area, Parcel 29 9. Surface elevation (feet above mean sea level): 757.13 10. Date started: 09/30/98 — 11. Date completed: 12/07/98
12. Overburden thickness (feet bgs): >38	15. Depth groundwater encountered (feet bgs): 7 Ft, 29 Ft
13. Depth drilled into rock (feet bgs):	16. Depth to water and elapsed time after drilling completed (feet bgs):
14. Total depth of hole (feet bgs): 38	17. Other water level measurements (specify):

18. Geotechnical samples:	Collected:	Disturbed:	Undisturbed:	19. Total no. of core boxes:		
20. Samples for chemical analysis:	VOC	Metals	Other (specify)	Other (specify)	Other (specify)	21. Total core recovery:
	X	X	X			N/A
22. Disposition of hole:	Backfilled	Monitoring well	Other (specify)	Geologist:		
		Temporary		D. Peterman/J. Jenkins		

LOCATION SKETCH/COMMENTS:



HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: FTA-29-GP08

Project: Fort McClellan | Geologist: D. Peterman/J. Jenkins | Sheet 2 of 5 sheets

Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow counts (g)	Remarks (h)
	0	cl: CLAY, Quartzite and Shale fragments, reddish brown, soft, damp, low plasticity.			Organic Vapor = 0.0ppm				Rec 2.8'/4.0' (0-4' bgs)
	1		cl						
755	2	cl: CLAY, very stiff, dry, yellowish brown, mottled red staining.							
	3		cl						
	4								Rec 2.9'/4.0' (4-8' bgs)
	5	cl: CLAY, soft, medium plasticity, damp, silty.	cl						Odor (5.2-6' bgs)
	6	cl: CLAY, stiff, mottled reddish brown.							
750	7		cl						PID malfunctioning
	8	cl: CLAY, some Silt, friable, shaley, brittle, black organic precipitate.							Rec 1.7'/2.0' (8-10' bgs)
	9		cl				AA0014		

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: FTA-29-GP08

Project: Fort McClellan | Geologist: D. Peterman/J. Jenkins | Sheet 3 of 5 sheets

Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow counts (g)	Remarks (h)
	10	ml: Light gray to olive gray, lean SILT, some Clay, dry, bedding structures present.	ml		Organic Vapor = 0.0ppm			19 28 50/.5'	Rec 1.7'/1.5' (10-12' bgs)
	11								
		NA: No sample collected for lithologic description.	NA						
745	12								
	13								
	14	sh: SHALE, dark gray, weathered, dry.	sh						
	15	sh: SHALE, dark gray, weathered, dry.						50/.2'	Rec 0.1'/0.2' (15-17' bgs)
	16								
740	17		sh						Description from HSA drill cuttings (17-38' bgs)
	18								
	19								

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: FTA-29-GP08

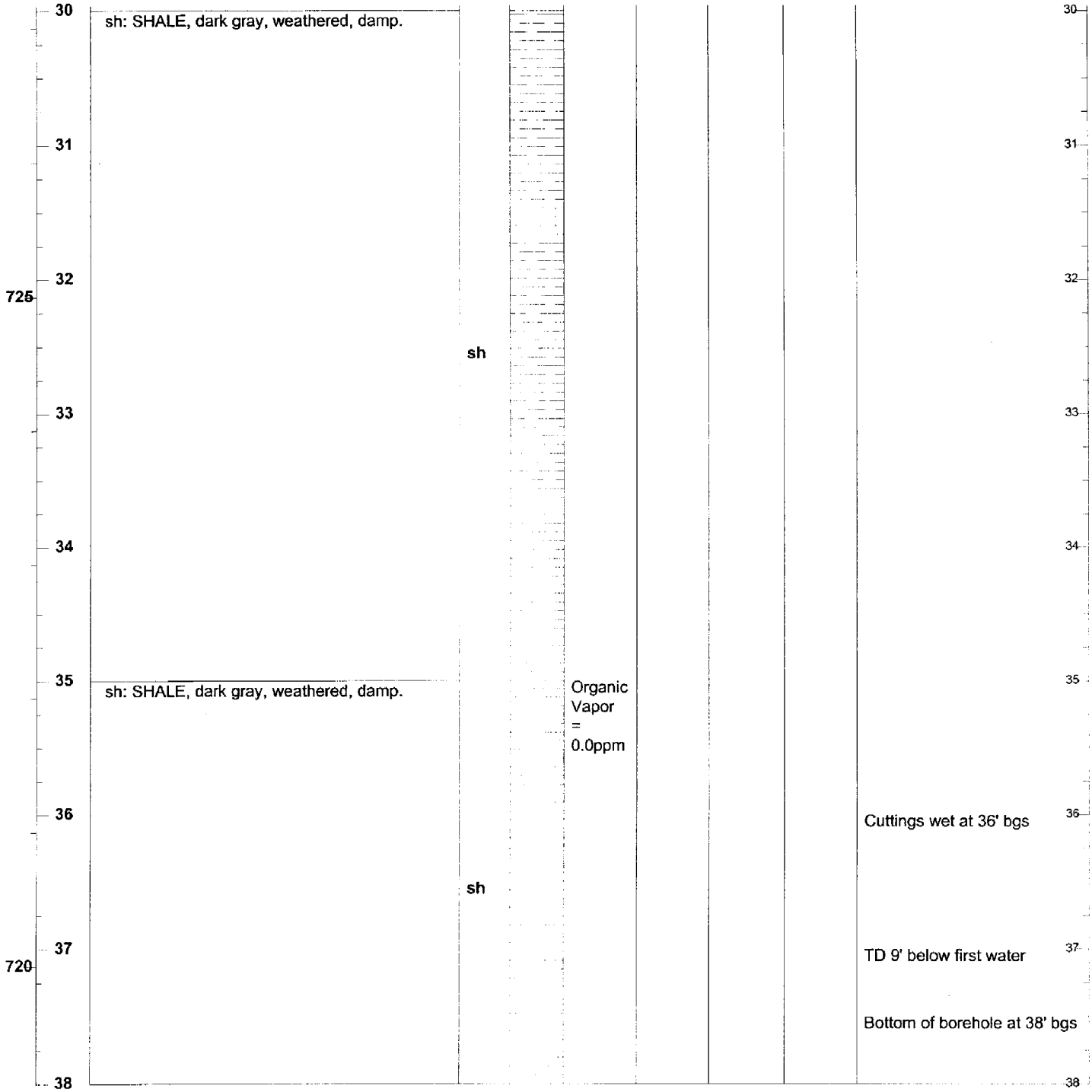
Project: Fort McClellan | Geologist: D. Peterman/J. Jenkins | Sheet 4 of 5 sheets

Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow counts (g)	Remarks (h)
	20	sh: SHALE, dark gray, weathered, dry.							
	21								
735	22		sh						
	23								
	24								
	25	sh: SHALE, dark gray, weathered, dry.			Organic Vapor = 0.0ppm				
	26								
730	27		sh						
	28								
	29				Organic Vapor = 0.0ppm				Cuttings damp at 29' bgs

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: FTA-29-GP08

Project: Fort McClellan | Geologist: D. Peterman/J. Jenkins | Sheet 5 of 5 sheets



HTRW DRILLING LOG

District: **Mobile USACE**

HOLE NUMBER: FTA-29-GP09

1. Company name: **IT Corporation**
2. Drill Subcontractor: TEG
Sheet 1 of 3 sheets

3. Project: Fort McClellan
4. Location: **Calhoun County, Alabama**

5. Name of driller: Sammy McDaniel
6. Mfr. designation of drill: Geoprobe

7. Sizes and types of drilling and sampling equipment:
Direct Push
DP - 2'x2" Acetate-Lined Sampler

8. Hole location: Chemical Motor Pool Area, Parcel 29
9. Surface elevation (feet above mean sea level): 748.58
10. Date started: 10/01/98
11. Date completed: 10/01/98

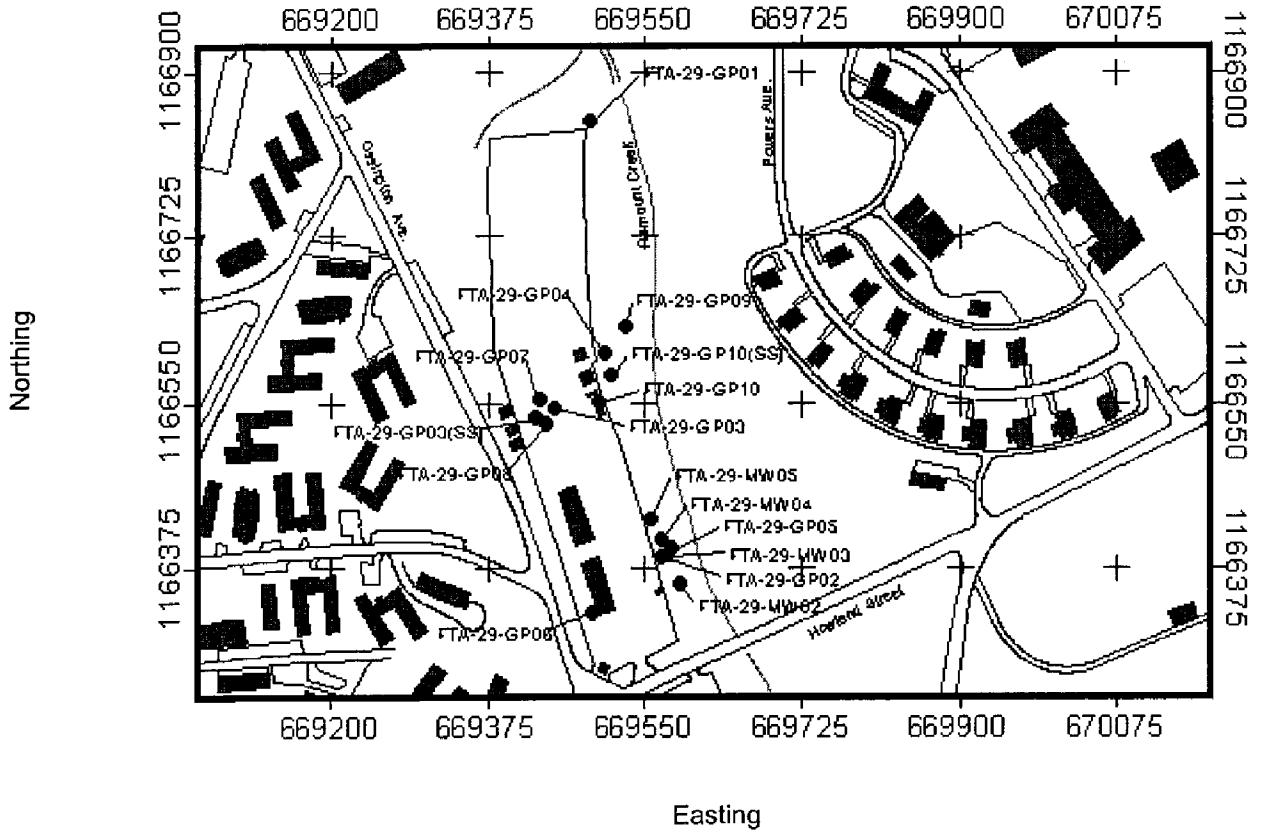
12. Overburden thickness (feet bgs): >11
15. Depth groundwater encountered (feet bgs): 7 Ft

13. Depth drilled into rock (feet bgs):
16. Depth to water and elapsed time after drilling completed (feet bgs):

14. Total depth of hole (feet bgs): 11
17. Other water level measurements (specify):

18. Geotechnical samples:	Collected:	Disturbed:	Undisturbed:	19. Total no. of core boxes:		
20. Samples for chemical analysis:	VOC	Metals	Other (specify)	Other (specify)	Other (specify)	21. Total core recovery:
	X	X	X			N/A
22. Disposition of hole:	Backfilled	Monitoring well	Other (specify)	Geologist:		
	X	Micro-well		D.Peterman		

LOCATION SKETCH/COMMENTS:



HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: FTA-29-GP09

Project: Fort McClellan | Geologist: D.Peterman | Sheet 2 of 3 sheets

Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow counts (g)	Remarks (h)
	0	cl: CLAY, some Silt, low plasticity, friable, yellowish brown, organics, dry, Shale fragments, medium stiff with depth.			Organic Vapor = 0.0ppm				Rec 3.2'/4.0' (0-4' bgs)
	1								
	2		cl						
	3								
745									
	4	ml: SILT, some Clay, high plasticity, very soft, yellowish brown stringers, moist from 6 to 8'.							Rec not logged (4-11' bgs)
	5								
	6		ml				AA0015		
	7								
	8	cl: CLAY, interbedded coarse quartz Sand, reddish staining up to 10', moist to 9'.							
740									
	9								
			cl						

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: FTA-29-GP09

Project: Fort McClellan | Geologist: D.Peterman | Sheet 3 of 3 sheets

Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow counts (g)	Remarks (h)
	10								10
									Direct push refusal at 11' bgs
									Bottom of borehole at 11' bgs
	11								11

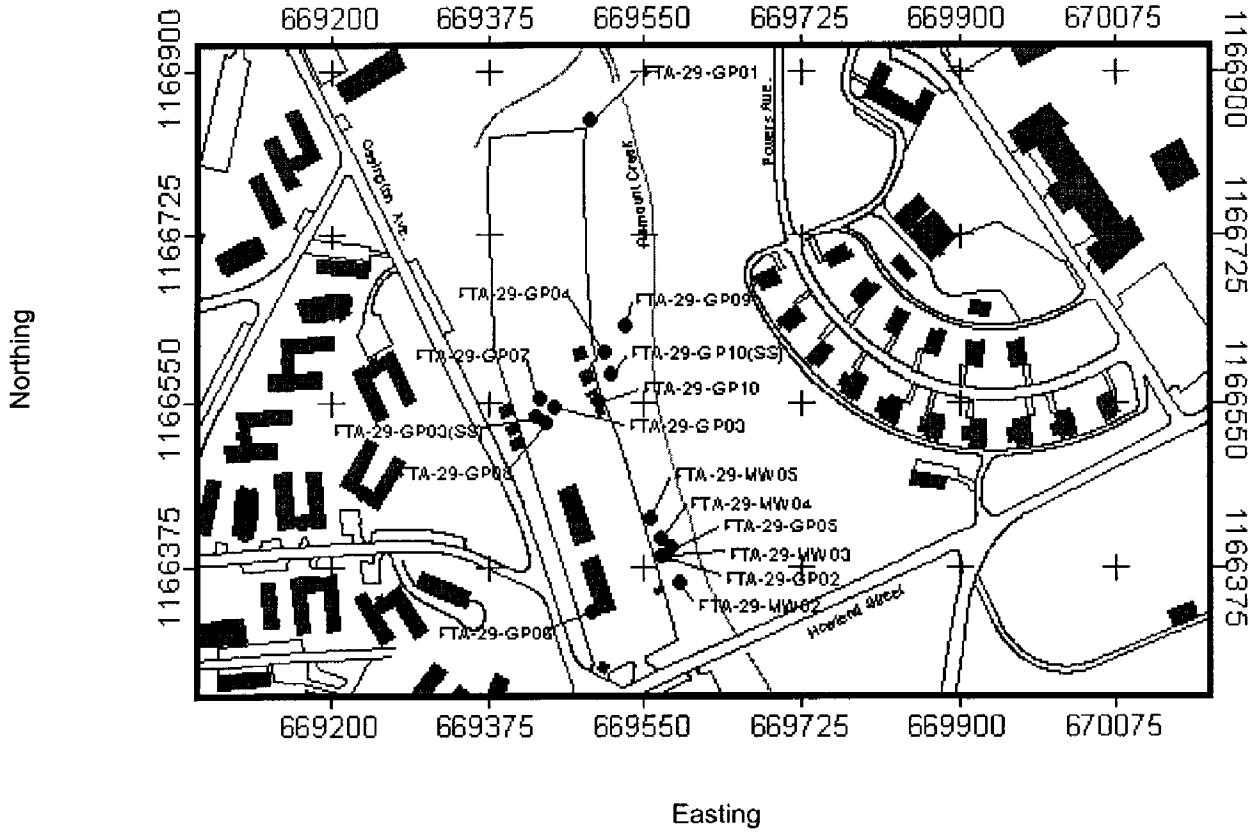
HTRW DRILLING LOG

	District: **Mobile USACE**	HOLE NUMBER FTA-29-GP10
1. Company name: **IT Corporation**	2. Drill Subcontractor: TEG/ MILLER DRILLING	Sheet 1 of 3 sheets

3. Project: Fort McClellan	4. Location: **Calhoun County, Alabama**
5. Name of driller: Sammy McDaniel/Doug Bishop	6. Mfr. designation of drill: Geoprobe/CME-550 ATV
7. Sizes and types of drilling and sampling equipment: Direct Push, Hollow Stem Auger DP - 2'x2" Acetate-Lined Sampler HSA - 5'x8.25" OD Augers, 2'x2" Steel Split Spoons	8. Hole location: 11th Chemical Motor Pool Area, Parcel 29 9. Surface elevation (feet above mean sea level): 752.66 10. Date started: 10/01/98 — 11. Date completed: 12/07/98
12. Overburden thickness (feet bgs): >14	15. Depth groundwater encountered (feet bgs): 6 Ft
13. Depth drilled into rock (feet bgs):	16. Depth to water and elapsed time after drilling completed (feet bgs):
14. Total depth of hole (feet bgs): 14	17. Other water level measurements (specify):

18. Geotechnical samples:	Collected:	Disturbed:	Undisturbed:	19. Total no. of core boxes:		
20. Samples for chemical analysis:	VOC	Metals	Other (specify)	Other (specify)	Other (specify)	21. Total core recovery:
	X	X	X			N/A
22. Disposition of hole:	Backfilled	Monitoring well	Other (specify)	Geologist:		
		Temporary		D. Peterman/J. Jenkins		

LOCATION SKETCH/COMMENTS:



HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: FTA-29-GP10

Project: Fort McClellan | Geologist: D. Peterman/J. Jenkins | Sheet 2 of 3 sheets

Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow counts (g)	Remarks (h)
	0	sm: SAND, some Silt, trace Clay, trace coarse grains, low plasticity, reddish brown, dry, Quartzite and Shale fragments, black organic precipitate, friable.			Organic Vapor = 0.0ppm				Rec 3.2'/4.0' (0-4' bgs)
	1								
	2		sm						
750	3								
	4	cl: CLAY, mottled gray to black, Quartz and Shale fragments, dry, friable.							Rec 1.0'/1.0' (4-5' bgs)
			cl				AA0016		
	5	ch: Greenish gray fat CLAY, some Silt, dry to 5.8' grading to light gray Clay with some fine Sand, damp to wet.			Organic Vapor = 0.0ppm			1 2 1 1	Rec 1.3'/2.0' (5-7' bgs)
	6		ch						
	7	NA: No recovery, rock in tip of spoon.						6 5 3 2	Rec 0.0'/2.0' (7-9' bgs)
745	8		NA						
	9	cl: Light gray CLAY, some fine Sand, wet to 9.8', becoming firm, light brown Clay, some Sand, damp, little Sandstone fragments.			Organic Vapor = 0.0ppm			11 21 28 50/.5'	Rec 1.2'/2.0' (9-11' bgs)

HTRW DRILLING LOG (Continuation Sheet)

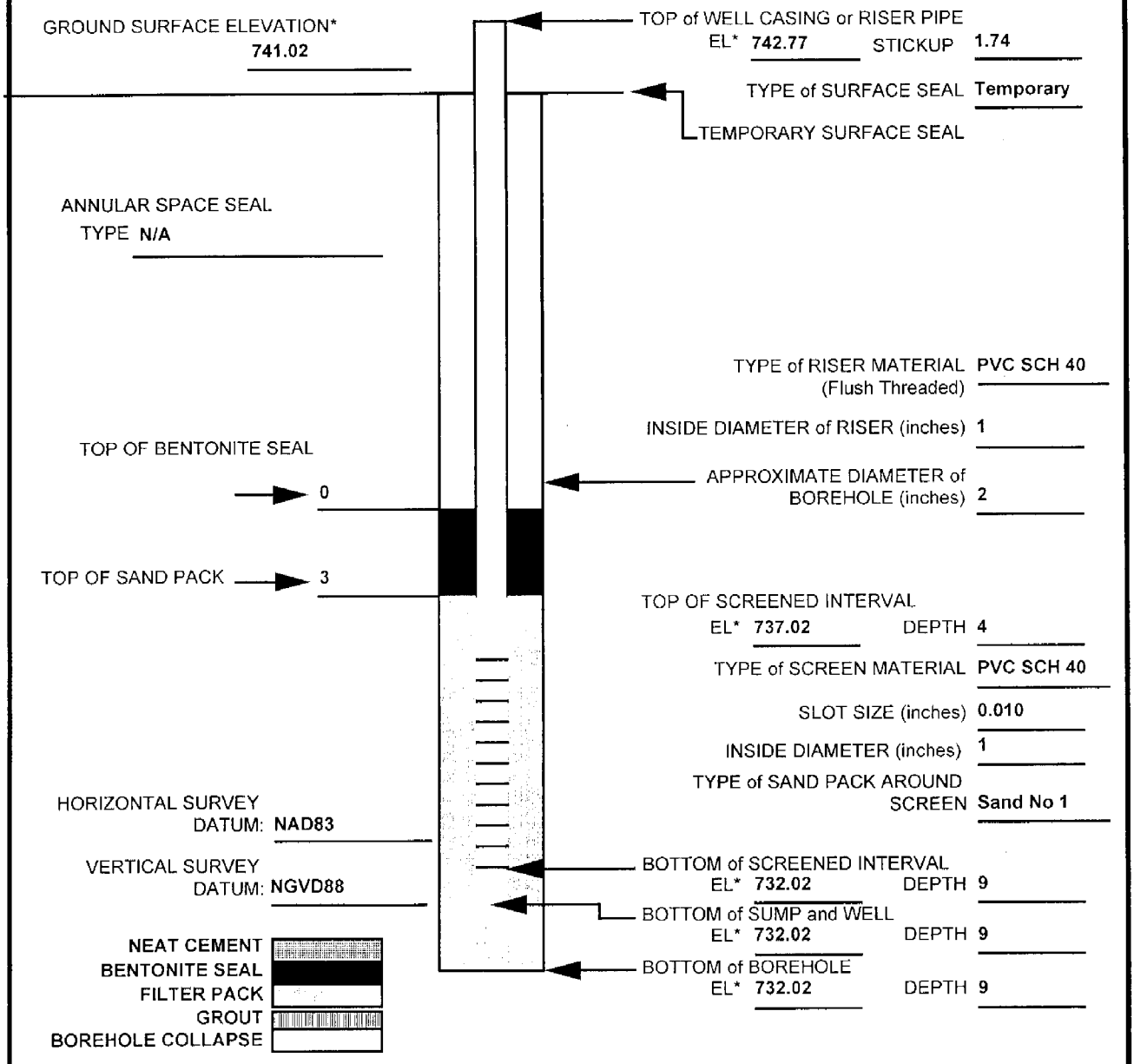
HOLE NUMBER: FTA-29-GP10

Project: Fort McClellan | Geologist: D. Peterman/J. Jenkins | Sheet 3 of 3 sheets

Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow counts (g)	Remarks (h)
	10		cl						10
	11	NA: No recovery, ROCK (Sandstone fragment) in tip of spoon.			Organic Vapor = 0.0ppm			20 24 18 6	Rec 0.0'/2.0' (11-13' bgs) 11
	12								12
740			NA						
	13								TD 8' below first water 13
									Bottom of borehole at 14' bgs
	14								14

MONITORING WELL INSTALLATION DETAIL

PROJECT: Fort McClellan, SAD TERC	WELL NO: FTA-29-GP01
LOCATION Anniston, AL	DRILLING METHOD: Direct Push
CLIENT: USACE Mobile District	INSTALLATION DATE 10/01/98
CONTRACTOR TEG	NORTHING: 1169629.78
DRILLER: S. MCDANIELS	EASTING: 666628.93
IT FIELD REPRESENTATIVE: D. PETERMAN	JOB NO: 774645A

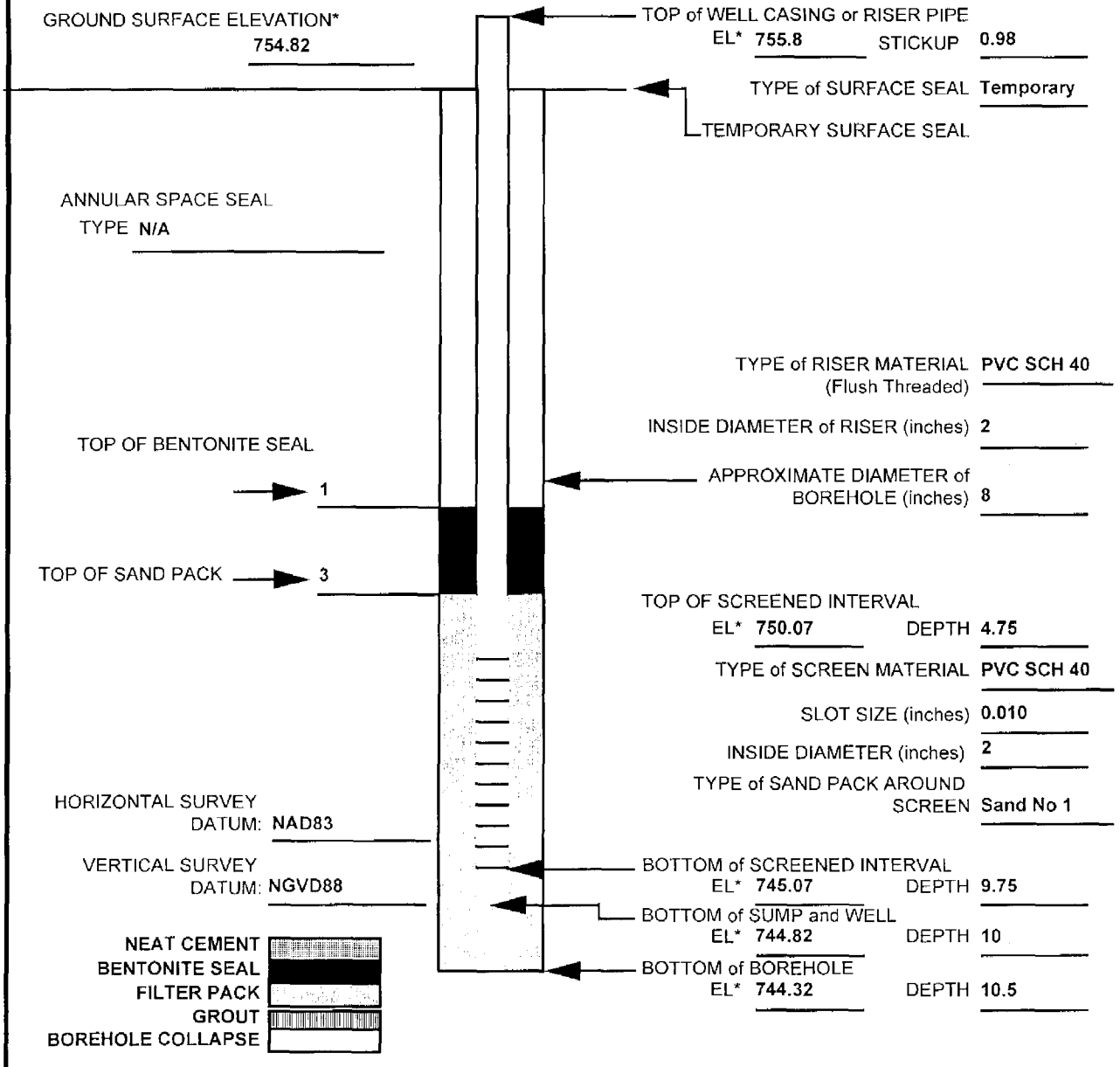


*All elevations (EL) are referenced to MSL.

All depths and heights are given in feet and are referenced to the ground surface.

MONITORING WELL INSTALLATION DETAIL

PROJECT: Fort McClellan, SAD TERC	WELL NO: FTA-29-GP02
LOCATION Anniston, AL	DRILLING METHOD: Hollow Stem Auger
CLIENT: USACE Mobile District	INSTALLATION DATE 12/14/98
CONTRACTOR MILLER DRILLING	NORTHING: 1168756.53
DRILLER: D. BISHOP	EASTING: 666776.83
IT FIELD REPRESENTATIVE: J.JENKINS	JOB NO: 774645A

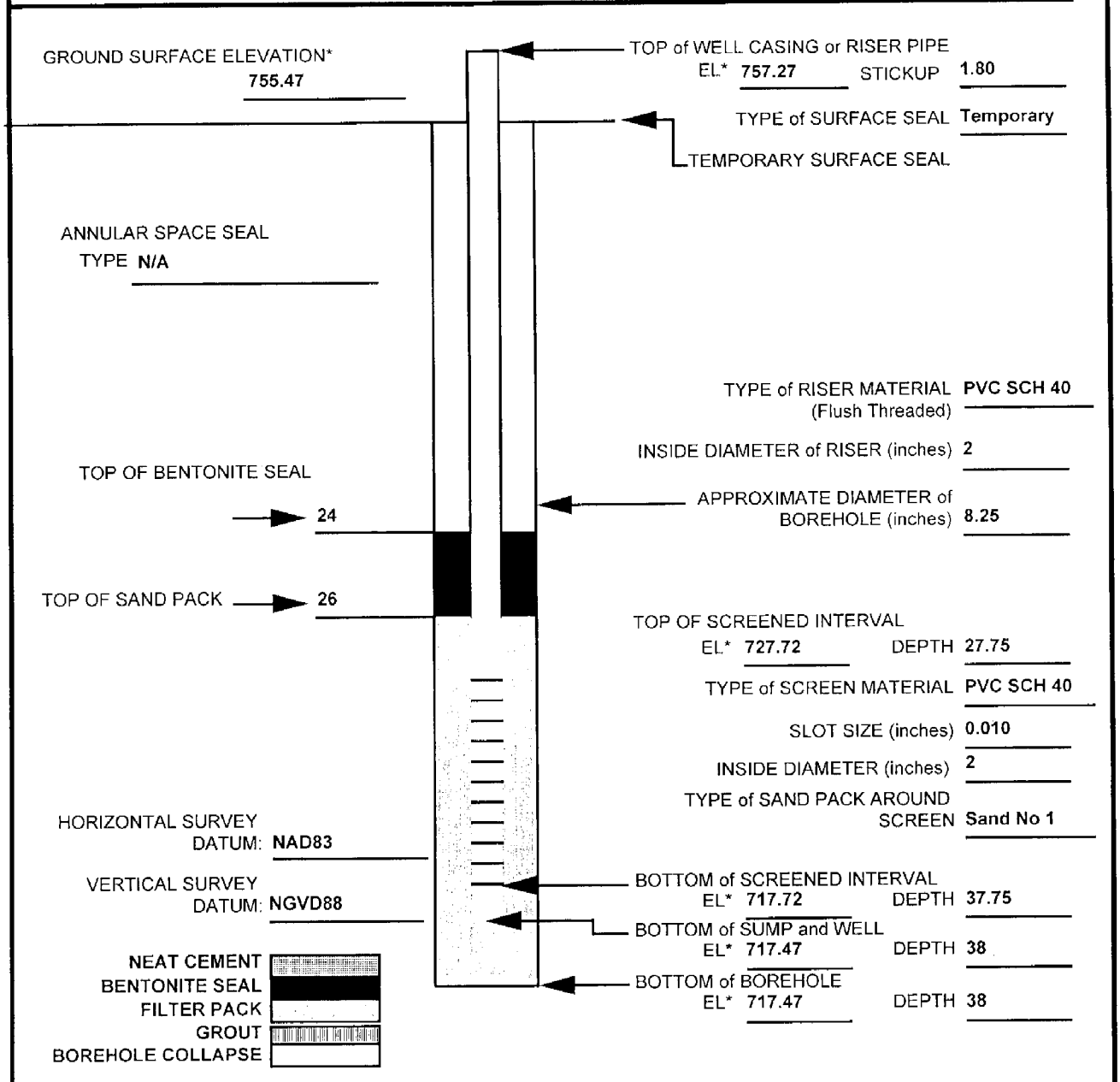


*All elevations (EL) are referenced to MSL.

All depths and heights are given in feet and are referenced to the ground surface.

MONITORING WELL INSTALLATION DETAIL

PROJECT: Fort McClellan, SAD TERC	WELL NO: FTA-29-GP03
LOCATION Anniston, AL	DRILLING METHOD: Hollow Stem Auger
CLIENT: USACE Mobile District	INSTALLATION DATE 12/07/98
CONTRACTOR MILLER DRILLING	NORTHING: 1169055.15
DRILLER: J.BROWNFIELD	EASTING: 666551.12
IT FIELD REPRESENTATIVE: B.RHODES	JOB NO: 774645A

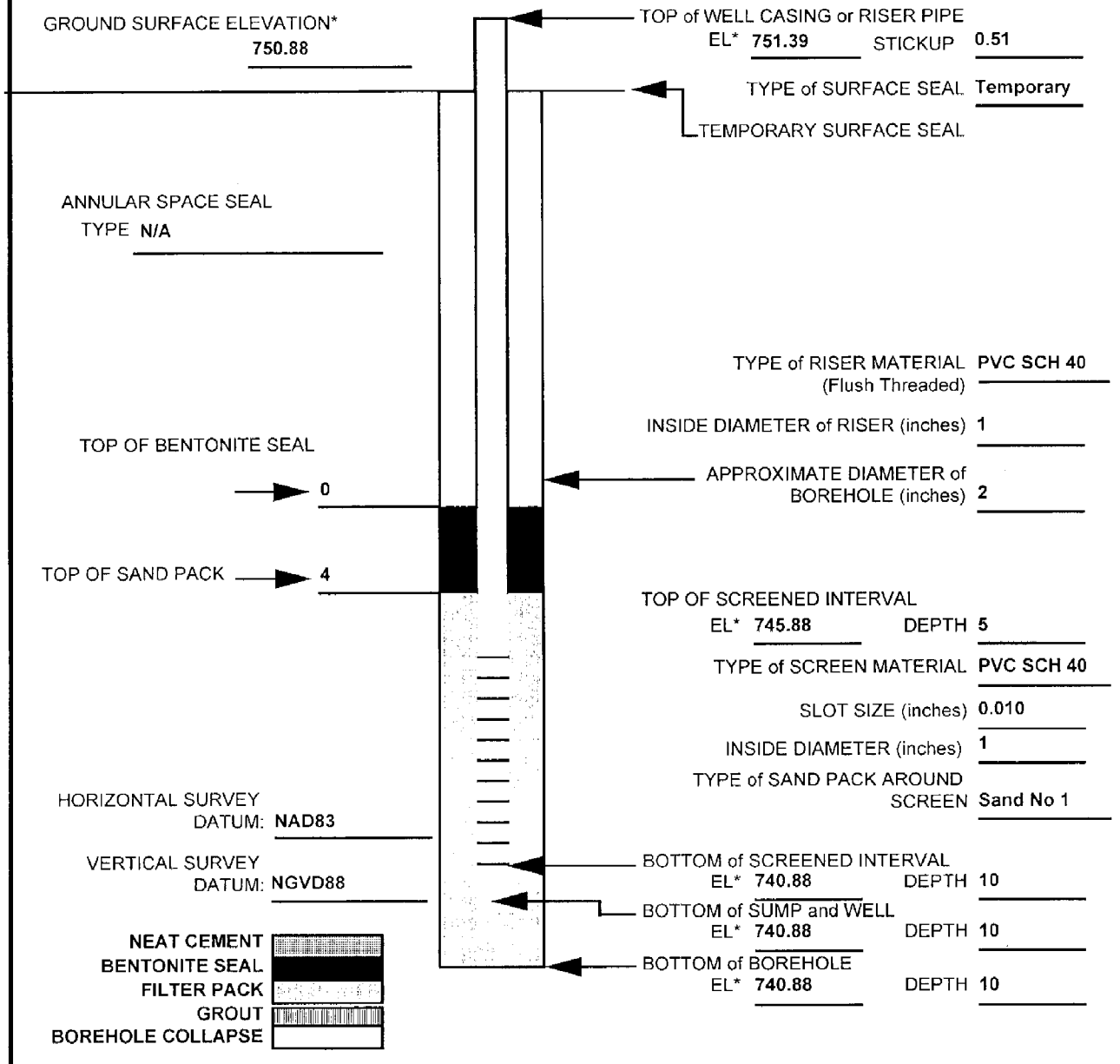


*All elevations (EL) are referenced to MSL.

All depths and heights are given in feet and are referenced to the ground surface.

MONITORING WELL INSTALLATION DETAIL

PROJECT: Fort McClellan, SAD TERC	WELL NO: FTA-29-GP04
LOCATION Anniston, AL	DRILLING METHOD: Direct Push
CLIENT: USACE Mobile District	INSTALLATION DATE 09/30/98
CONTRACTOR TEG	NORTHING: 1169161.16
DRILLER: S. MCDANIELS	EASTING: 666659.55
IT FIELD REPRESENTATIVE: D.PETERMAN	JOB NO: 774645A



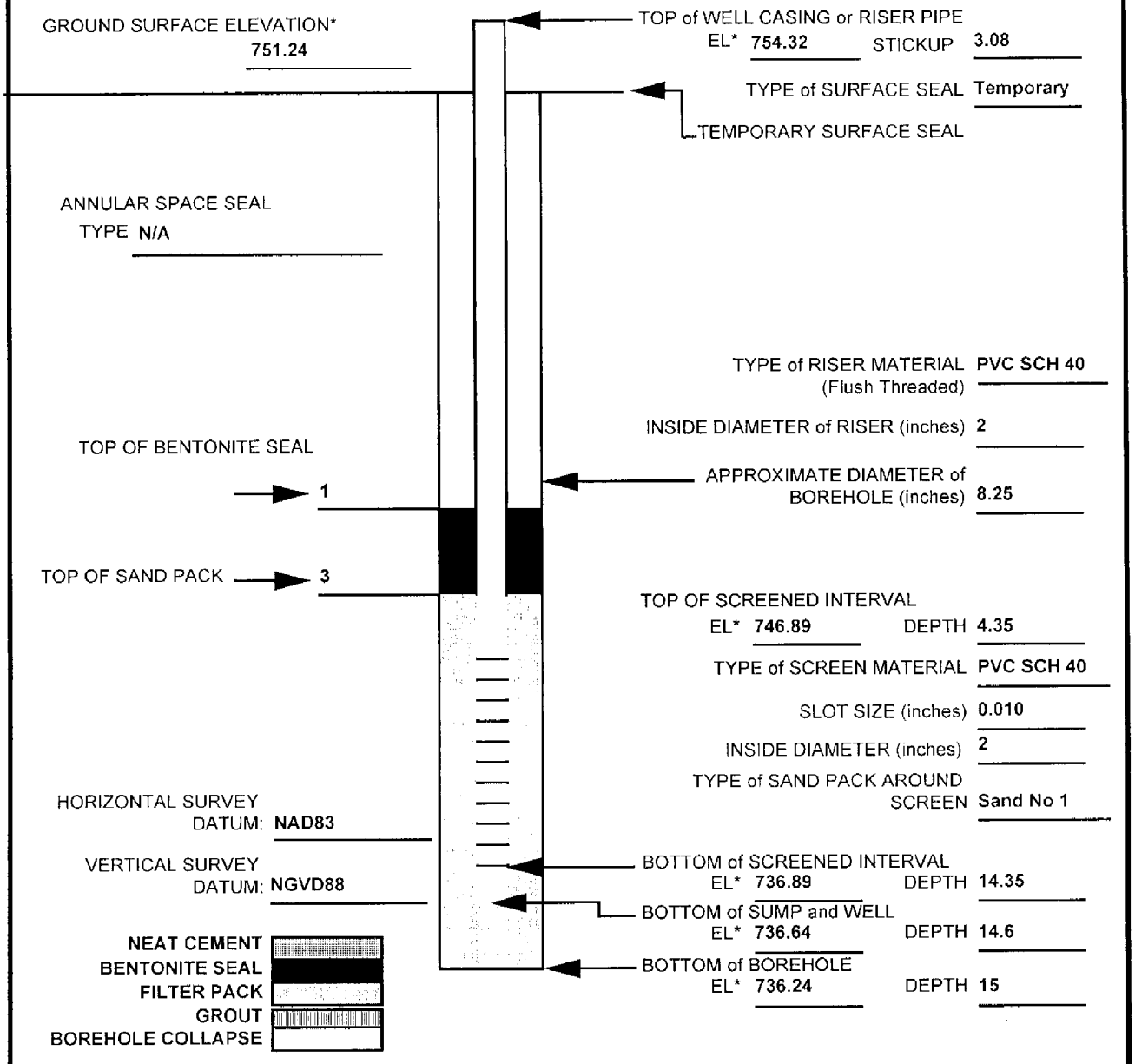
*All elevations (EL) are referenced to MSL.

All depths and heights are given in feet and are referenced to the ground surface.

MONITORING WELL INSTALLATION DETAIL

PROJECT: Fort McClellan, SAD TERC
LOCATION Anniston, AL
CLIENT: USACE Mobile District
CONTRACTOR MILLER DRILLING
DRILLER: J.BROWNFIELD
IT FIELD REPRESENTATIVE: B.RHODES

WELL NO: FTA-29-GP05
DRILLING METHOD: Hollow Stem Auger
INSTALLATION DATE 12/07/98
NORTHING: 1168774.54
EASTING: 666801.19
JOB NO: 774645A



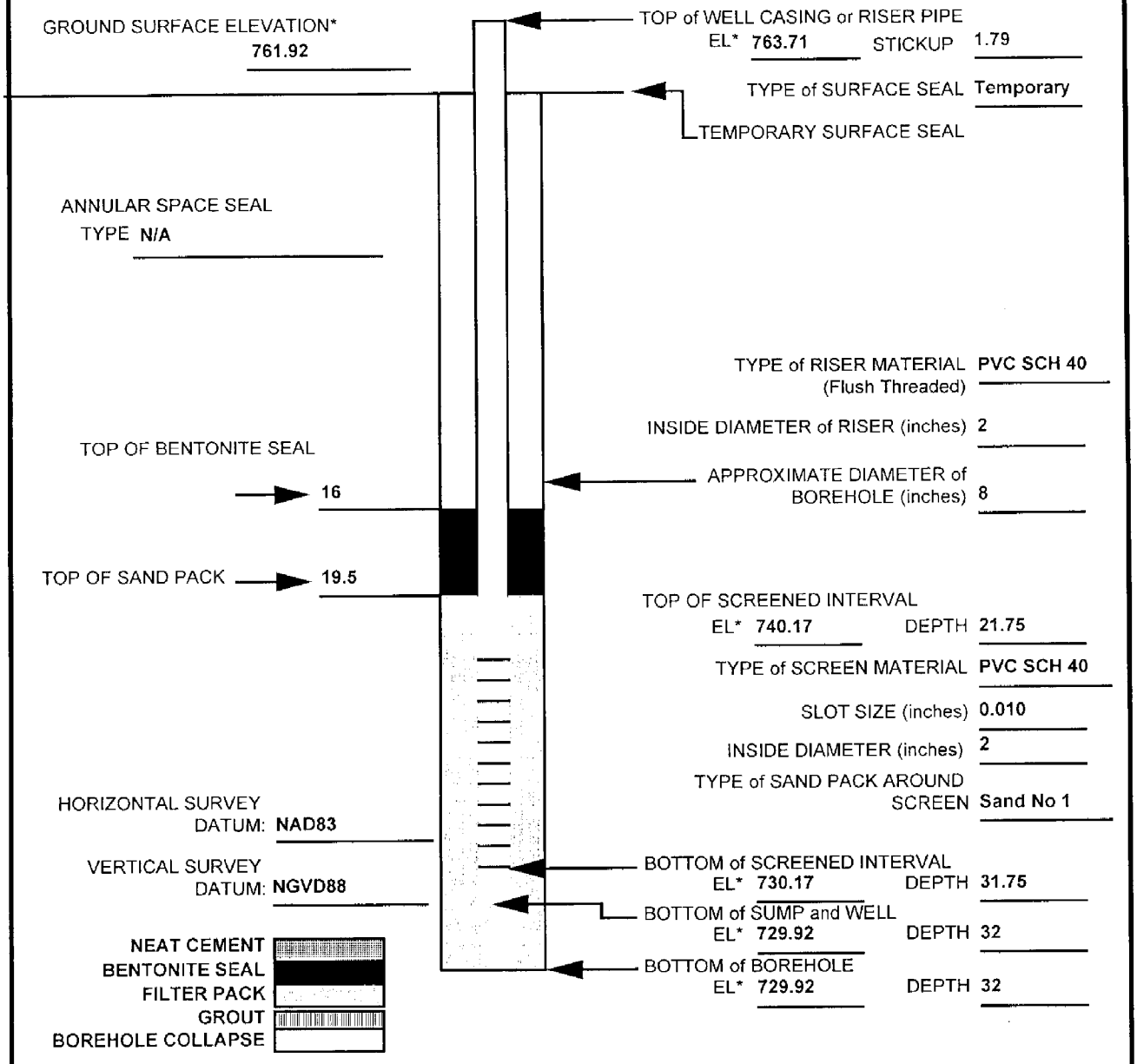
*All elevations (EL) are referenced to MSL.

All depths and heights are given in feet and are referenced to the ground surface.

MONITORING WELL INSTALLATION DETAIL

PROJECT: Fort McClellan, SAD TERC
LOCATION Anniston, AL
CLIENT: USACE Mobile District
CONTRACTOR MILLER DRILLING
DRILLER: D. BISHOP
IT FIELD REPRESENTATIVE: J.JENKINS

WELL NO: FTA-29-GP06
DRILLING METHOD: Hollow Stem Auger
INSTALLATION DATE 12/01/98
NORTHING: 1168645.57
EASTING: 666631.34
JOB NO: 774645A

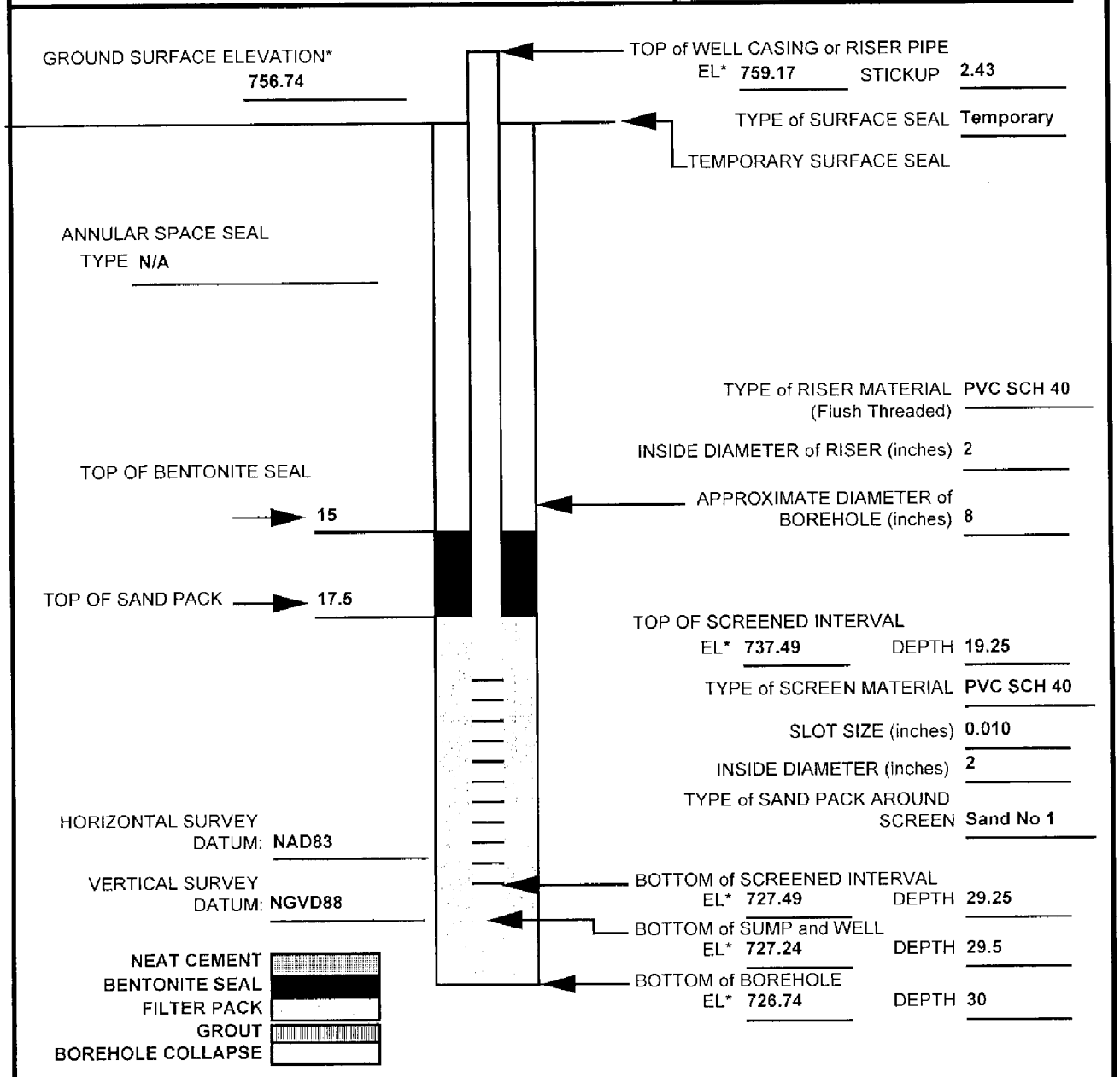


*All elevations (EL) are referenced to MSL.

All depths and heights are given in feet and are referenced to the ground surface.

MONITORING WELL INSTALLATION DETAIL

PROJECT: Fort McClellan, SAD TERC	WELL NO: FTA-29-GP07
LOCATION Anniston, AL	DRILLING METHOD: Hollow Stem Auger
CLIENT: USACE Mobile District	INSTALLATION DATE 12/02/98
CONTRACTOR MILLER DRILLING	NORTHING: 1169074.23
DRILLER: D.BISHOP	EASTING: 666519.05
IT FIELD REPRESENTATIVE: J.JENKINS	JOB NO: 774645A



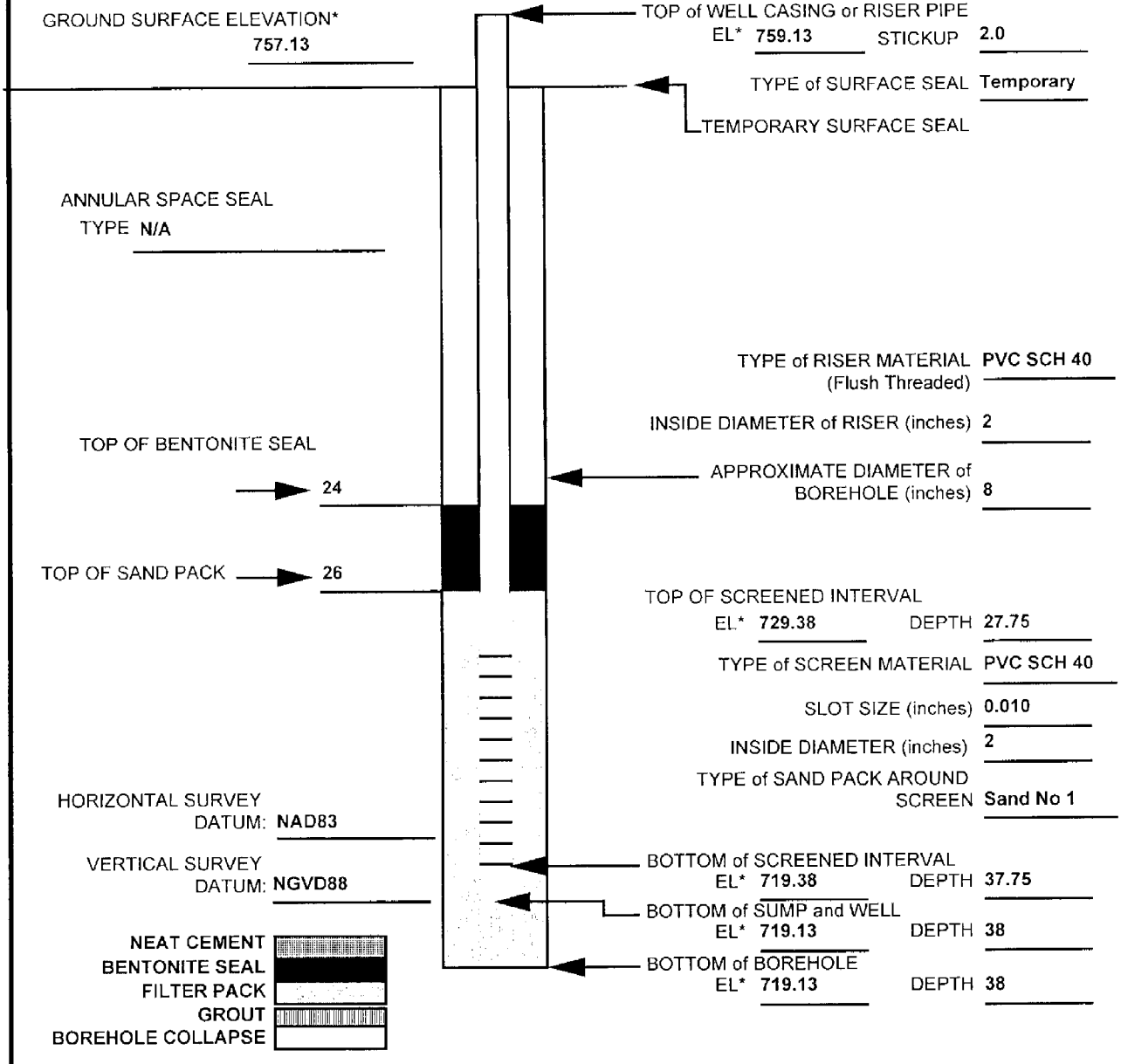
*All elevations (EL) are referenced to MSL.

All depths and heights are given in feet and are referenced to the ground surface.

MONITORING WELL INSTALLATION DETAIL

PROJECT: Fort McClellan, SAD TERC
LOCATION Anniston, AL
CLIENT: USACE Mobile District
CONTRACTOR MILLER DRILLING
DRILLER: D.BISHOP
IT FIELD REPRESENTATIVE: J.JENKINS

WELL NO: FTA-29-GP08
DRILLING METHOD: Hollow Stem Auger
INSTALLATION DATE 12/07/98
NORTHING: 1169024.5
EASTING: 666535.4
JOB NO: 774645A

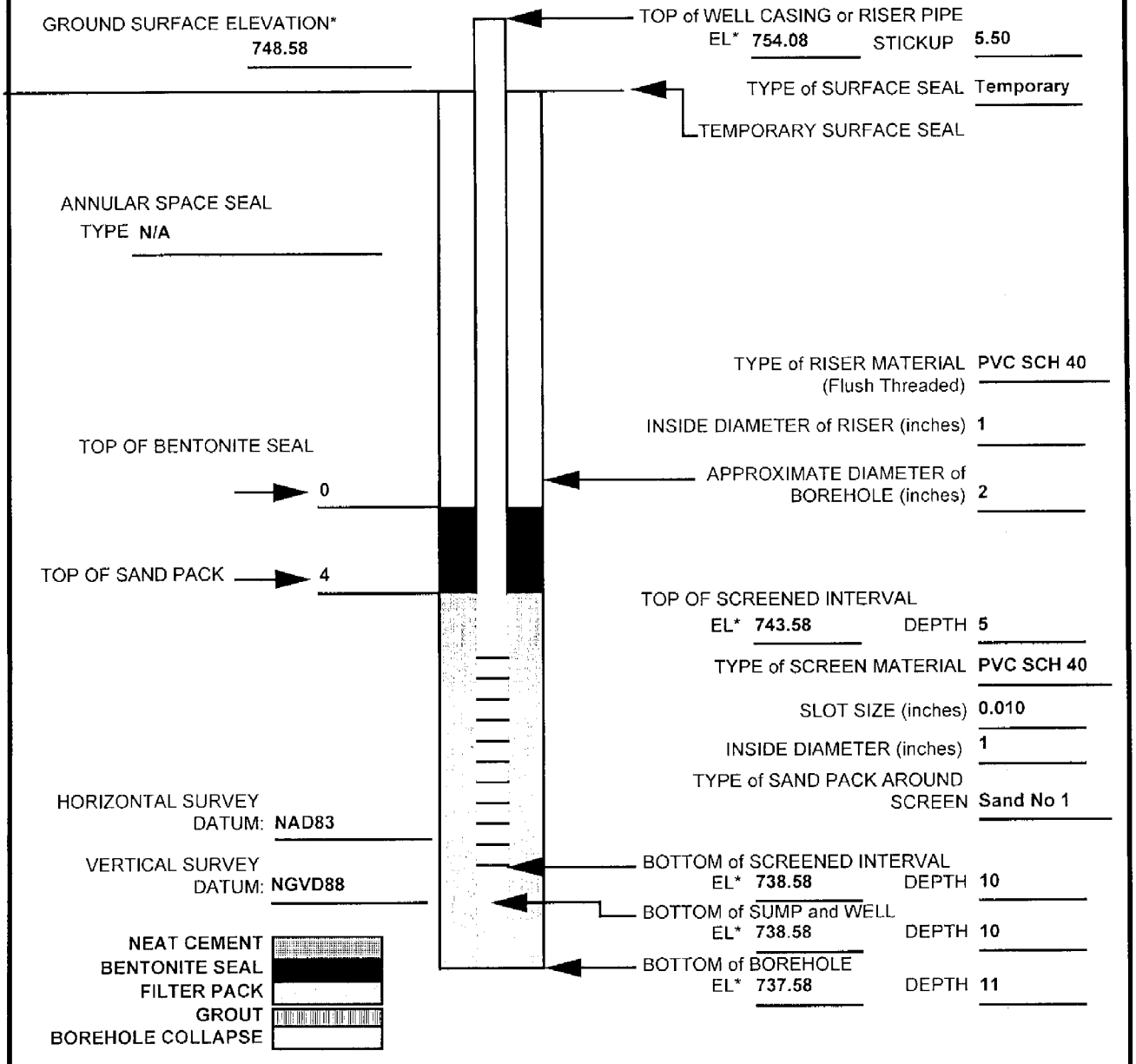


*All elevations (EL) are referenced to MSL.

All depths and heights are given in feet and are referenced to the ground surface.

MONITORING WELL INSTALLATION DETAIL

PROJECT: Fort McClellan, SAD TERC	WELL NO: FTA-29-GP09
LOCATION Anniston, AL	DRILLING METHOD: Direct Push
CLIENT: USACE Mobile District	INSTALLATION DATE 10/01/98
CONTRACTOR TEG	NORTHING: 1169213.72
DRILLER: S. MCDANIELS	EASTING: 666704.95
IT FIELD REPRESENTATIVE: D.PETERMAN	JOB NO: 774645A



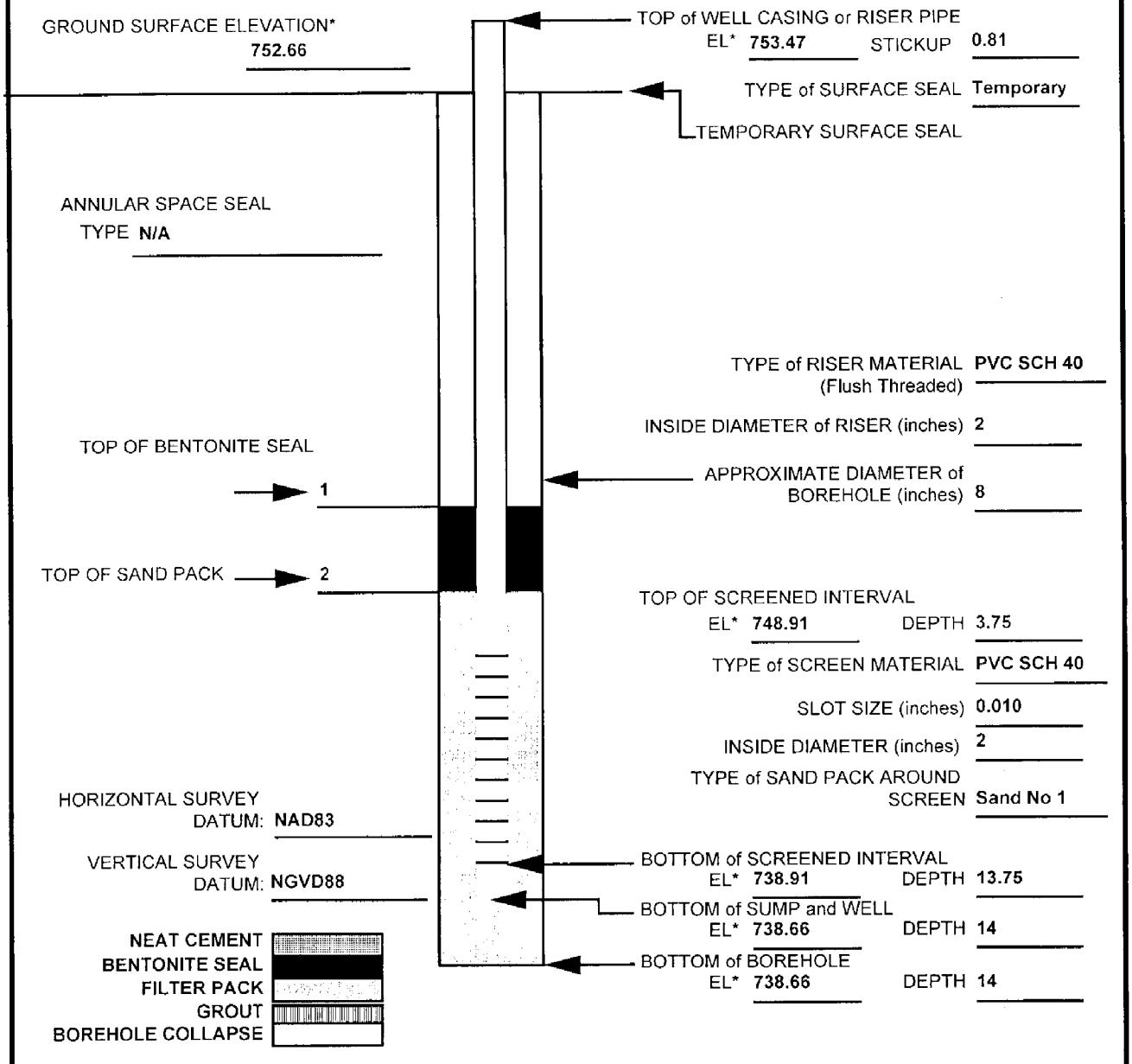
*All elevations (EL) are referenced to MSL.

All depths and heights are given in feet and are referenced to the ground surface.

MONITORING WELL INSTALLATION DETAIL

PROJECT: Fort McClellan, SAD TERC
LOCATION Anniston, AL
CLIENT: USACE Mobile District
CONTRACTOR MILLER DRILLING
DRILLER: D. BISHOP
IT FIELD REPRESENTATIVE: J. JENKINS

WELL NO: FTA-29-GP10
DRILLING METHOD: Hollow Stem Auger
INSTALLATION DATE 12/07/98
NORTHING: 1169069.14
EASTING: 666645.24
JOB NO: 774645A



*All elevations (EL) are referenced to MSL.

All depths and heights are given in feet and are referenced to the ground surface.