

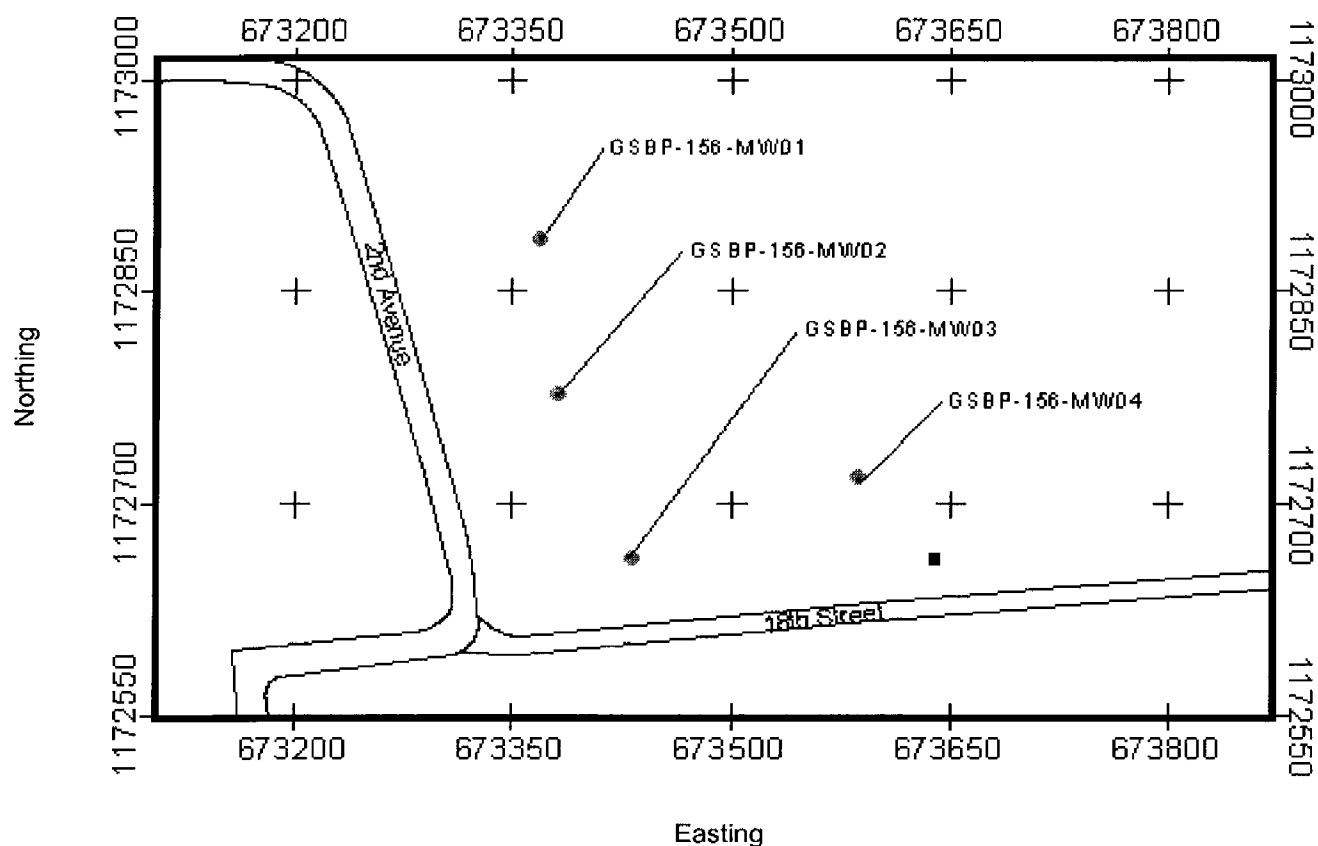
APPENDIX B

BORING LOGS AND WELL CONSTRUCTION LOGS

BORING LOGS

HTRW DRILLING LOG		District: Mobile USACE		HOLE NUMBER GSBP-156-MW01	
1. Company name: IT Corporation		2. Drill Subcontractor: MILLER DRILLING		Sheet 1 of 5 sheets	
3. Project: Fort McClellan		4. Location: Calhoun County, Alabama			
5. Name of driller: Ken Gobell		6. Mfr. designation of drill: CME-550			
7. Sizes and types of drilling and sampling equipment: 4.25" HSAs, 2"x24" Split Spoons		8. Hole location: Ground Scar Near the ASP, Parcel 156			
		9. Surface elevation (feet above mean sea level): 811.43			
		10. Date started: 10/05/99		11. Date completed: 10/08/99	
12. Overburden thickness (feet bgs): >34		15. Depth groundwater encountered (feet bgs): 33			
13. Depth drilled into rock (feet bgs): 0		16. Depth to water and elapsed time after drilling completed (feet bgs): 11.68 from TOC after 2 days			
14. Total depth of hole (feet bgs): 34		17. Other water level measurements (specify): 11.30 from TOC on 10/13/99			
18. Geotechnical samples:	Collected:	Disturbed:	Undisturbed:	19. Total no. of core boxes: NA	
	NA				
20. Samples for chemical analysis:	VOC	Metals	Other (specify)	Other (specify)	21. Total core recovery:
	X	X	SVOCs, PCBs	Herbs, Pests	NA
22. Disposition of hole:	Backfilled	Monitoring well	Other (specify)	Geologist:	
		X		JAMES DENDY	

LOCATION SKETCH/COMMENTS:



Project: Fort McClellan

bgs= below ground surface
NA = Not applicable

Hole no.: GSBP-156-MW01

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: GSBP-156-MW01

Project: Fort McClellan

Geologist: JAMES DENDY

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)
810	0	ml: Light brown SILT.	ml		Organic Vapor = 0ppm			19 22 24 35	Rec 4"/24" (0-2' bgs)
	1		ml						
	2	ml: Light brown SILT.	ml		Organic Vapor = 0ppm			4 7 9 11	Rec 24"/24" (2-4' bgs)
	3		ml						
	4	ml: Light brown SILT, some Clay.	ml		Organic Vapor = 0ppm			5 7 15 24	Rec 18"/24" (4-6' bgs)
	5		ml						
805	6	cl-ml: Brown SILT and gray CLAY.	cl-ml		Organic Vapor = 0ppm			5 9 13 16	Rec 24"/24" (6-8' bgs)
	7		cl-ml						
	8	cl-ml: Gray CLAY and brown SILT.	cl-ml		Organic Vapor = 0ppm			5 8 10 13	Rec 20"/24" (8-10' bgs)
	9		cl-ml						

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: GSBP-156-MW01

Project: Fort McClellan

Geologist: JAMES DENDY

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	cl-ml: Gray CLAY and brown SILT.						8 12 16 19	Rec 24"/24" (10-12' bgs)
	11		cl-ml						
800	12	cl-ml: Gray CLAY and brown SILT.							Description from hollow stem auger cuttings.
	13		cl-ml						
	14	sh: Highly weathered fissile SHALE, little Clay.						5 19 29 50/6"	Rec 20"/24" (14-16' bgs)
	15		sh						
	16	ml: Gray SILT.							Descriptions from hollow stem auger cuttings.
795	17								
	18								
	19		ml						

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: GSBP-156-MW01

Project: Fort McClellan

Geologist: JAMES DENDY

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)
790	20								
	21								
	22	sh: SHALE and gray SILT.							
	23								
	24								
	25								
785	26		sh						
	27								
	28								
	29								

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: GSBP-156-MW01

Project: Fort McClellan

Geologist: JAMES DENDY

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)
780	30								
	31	sh: Black SHALE.	sh						
	32	ml: Gray SILT, saturated.							
	33		ml						
	34								Bottom of borehole at 34'.

HTRW DRILLING LOGDistrict: **Mobile USACE**

HOLE NUMBER

GSBP-156-MW02

1. Company name: **IT Corporation**2. Drill Subcontractor: **MILLER DRILLING**

Sheet 1 of 4 sheets

3. Project: **Fort McClellan**4. Location: **Calhoun County, Alabama**5. Name of driller: **Ken Gobell**6. Mfr. designation of drill: **CME-550**7. Sizes and types of drilling and sampling equipment:
4.25" HSAs, 2"x24" Split Spoons8. Hole location: **Ground Scar Near the ASP, Parcel 156**9. Surface elevation (feet above mean sea level): **811.91**10. Date started: **10/05/99**11. Date completed: **10/08/99**12. Overburden thickness (feet bgs): **>29**15. Depth groundwater encountered (feet bgs): **24**13. Depth drilled into rock (feet bgs): **0**16. Depth to water and elapsed
time after drilling completed (feet bgs): **13.11 from TOC 2 days later**14. Total depth of hole (feet bgs): **29**17. Other water level measurements (specify): **12.50 from TOC on 10/13/99**18. Geotechnical
samples:

Collected:

Disturbed:

Undisturbed:

19. Total no. of core boxes: **NA**

NA

20. Samples for chemical
analysis:

VOC

Metals

Other (specify)

Other (specify)

Other (specify)

21. Total core
recovery:

X

X

SVOCs, PCBs

Herbs, Pests

Nitro Expl.

NA

22. Disposition of hole:

Backfilled

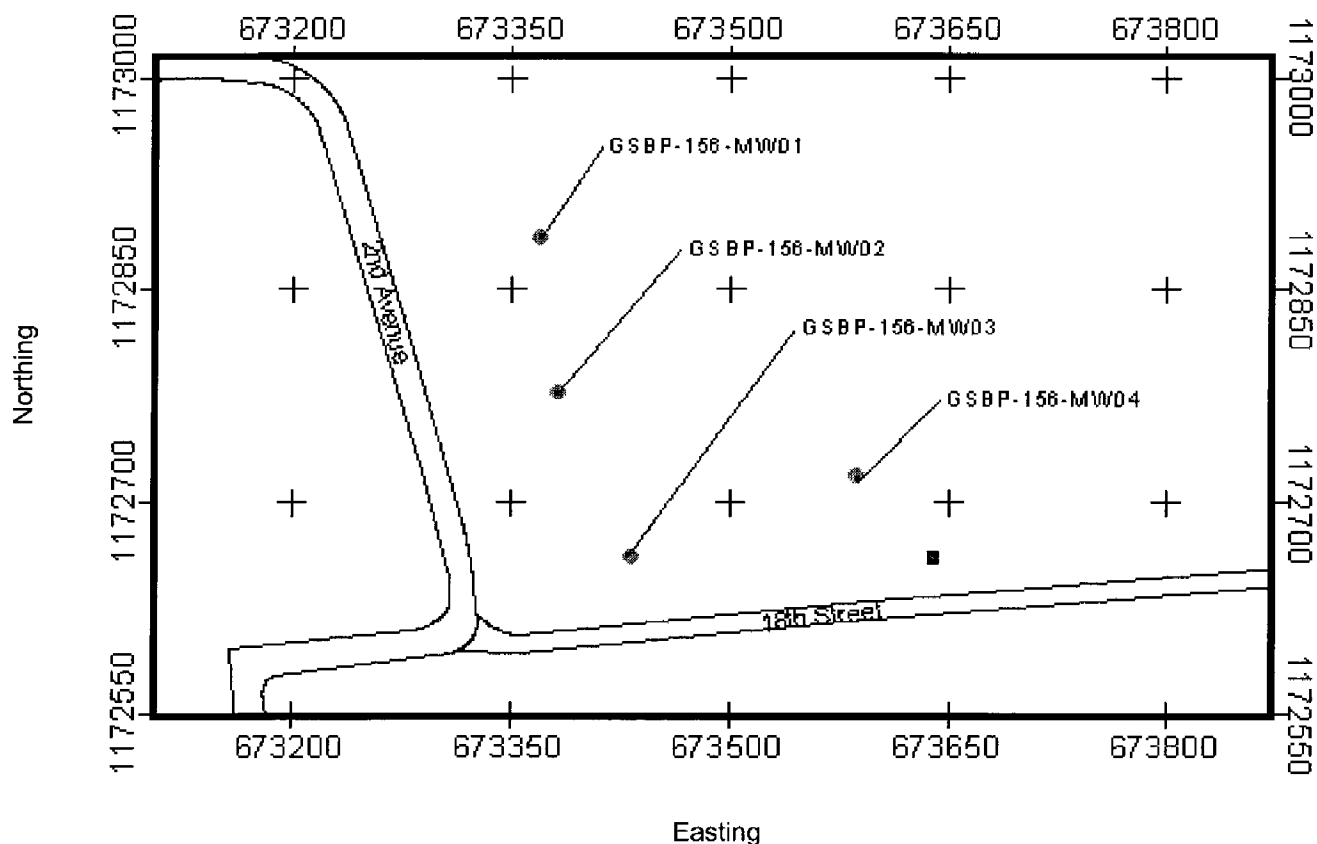
Monitoring well

Other (specify)

Geologist:

X

JAMES DENDY

LOCATION SKETCH/COMMENTS:Project: **Fort McClellan**bgs= below ground surface
NA = Not applicableHole no.: **GSBP-156-MW02**

HTRW DRILLING LOG (Continuation Sheet)						HOLE NUMBER: GSBP-156-MW02			
Project: Fort McClellan			Geologist: JAMES DENDY			Sheet 2 of 4 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	ml: Brown SILT, trace organics.			Organic Vapor = 0ppm			3 5 8 7	Rec 21"/24" (0-2' bgs)	0
	1		ml							1
810	2	ml: Brown SILT, localized orange oxidations, trace decomposing organics.			Organic Vapor = 0ppm			6 9 7 8	Rec 24"/24" (2-4' bgs)	2
	3		ml							3
	4	cl-ml: Gray CLAY and SILT, localized orange oxidations.			Organic Vapor = 0ppm			3 5 7 9	Rec 18"/24" (4-6' bgs)	4
	5		cl-ml							5
	6	cl: Gray CLAY, some Silt.			Organic Vapor = 0ppm				Rec 24"/24" No blow counts, spoon was pushed. (6-8' bgs)	6
805	7		cl							7
	8	sh: Highly weathered fissile SHALE.			Organic Vapor = 0ppm			13 27 50/3"	Rec 14"/24" (8-9.3' bgs)	8
	9	sh: Black SHALE.	sh						Descriptions from hollow stem auger drill cuttings.	9

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: GSBP-156-MW02

Project: Fort McClellan

Geologist: JAMES DENDY

Sheet 3 of 4 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)
800	10								
	11								
	12								
	13								
	14								
	15								
	16								
795	17								
	18								
	19								
			sh						

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: GSBP-156-MW02

Project: Fort McClellan

Geologist: JAMES DENDY

Sheet 4 of 4 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								
790	22								
	23								
	24								Water encountered during drilling at 24'.
	25								
	26								
785	27								
	28								
	29								Bottom of borehole at 29'.

HTRW DRILLING LOGDistrict: **Mobile USACE****HOLE NUMBER**

GSBP-156-MW03

1. Company name: **IT Corporation**2. Drill Subcontractor: **MILLER DRILLING**

Sheet 1 of 4 sheets

3. Project: **Fort McClellan**4. Location: **Calhoun County, Alabama**5. Name of driller: **Ken Gobell**6. Mfr. designation of drill: **CME-550**

7. Sizes and types of drilling and sampling equipment:

4.25" HSAs, 2"x24" Split Spoons

8. Hole location: **Ground Scar Near the ASP, Parcel 156**9. Surface elevation (feet above mean sea level): **812.70**10. Date started: **10/04/99**11. Date completed: **10/08/99**12. Overburden thickness (feet bgs): **>24**15. Depth groundwater encountered (feet bgs): **23**13. Depth drilled into rock (feet bgs): **0**16. Depth to water and elapsed time after drilling completed (feet bgs): **12.94' from TOC after 22 hours**14. Total depth of hole (feet bgs): **24**17. Other water level measurements (specify): **NA**

18. Geotechnical samples:

Collected:

Disturbed:

Undisturbed:

19. Total no. of core boxes: **NA**

NA

20. Samples for chemical analysis:

VOC

Metals

Other (specify)

Other (specify)

Other (specify)

21. Total core recovery:

X

X

SVOCs, PCBs

Herbs, Pests

Nitro Expl.

NA

22. Disposition of hole:

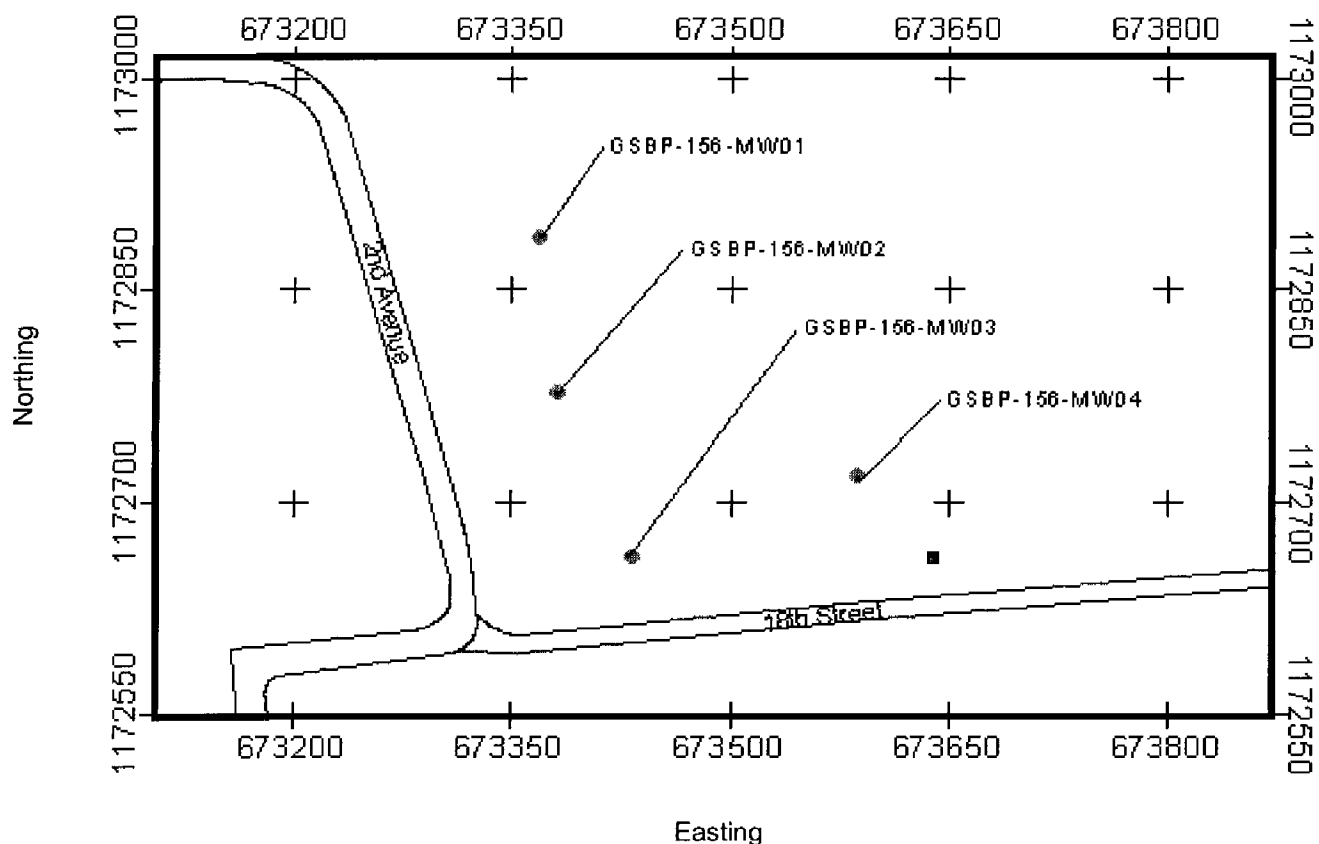
Backfilled

Monitoring well

Other (specify)

Geologist:

X

JAMES DENDY**LOCATION SKETCH/COMMENTS:**Project: **Fort McClellan**bgs= below ground surface
NA = Not applicableHole no.: **GSBP-156-MW03**

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: GSBP-156-MW03

Project: Fort McClellan

Geologist: JAMES DENDY

Sheet 2 of 4 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	ml: Light brown SILT.			Organic Vapor = 0ppm			4 7 11 13	Rec 16"/24" (0-2' bgs)
	1		ml						
	2	ml: Light brown SILT, little gray Clay.			Organic Vapor = 0ppm			8 10 11 12	Rec 24"/24" (2-4' bgs)
810	3		ml						
	4	cl: Light gray CLAY, some light brown SILT.			Organic Vapor = 0ppm			3 6 8 11	Rec 24"/24" (4-6' bgs)
	5		cl						
	6	cl: Light gray CLAY, some SILT.			Organic Vapor = 0ppm			8 11 10 15	Rec 24"/24" (6-8' bgs)
	7		cl						
805	8	ml: Brown SILT, little CLAY.							
	8	sh: Light gray, highly weathered fissile SHALE. SHALE has weathered into layers of SILT and CLAY.			Organic Vapor = 0ppm			8 11 18 19	Rec 24"/24" (8-10' bgs)
	9		sh						

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: GSBP-156-MW03

Project: Fort McClellan

Geologist: JAMES DENDY

Sheet 3 of 4 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: Highly weathered SHALE. SHALE has weathered into layers of SILT and CLAY.							
	11		sh						
	12	sh: Highly weathered SHALE.							
800	13								
	14								
	15								
	16								
	17								
795	18		sh						
	19								

Organic Vapor = 0ppm

8 12 24
50/6"

Rec 21"/24" (10-12' bgs)

Descriptions from hollow stem auger drill cuttings.

HTRW DRILLING LOG

(Continuation Sheet)

HOLE NUMBER: GSBP-156-MW03

Project: Fort McClellan

Geologist: JAMES DENDY

Sheet 4 of 4 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								
	22								
790	23								Saturated
	24								Bottom of borehole at 24'.

HTRW DRILLING LOG

District: **Mobile USACE**

HOLE NUMBER

GSBP-156-MW04

1. Company name: **IT Corporation**2. Drill Subcontractor: **MILLER DRILLING**

Sheet 1 of 4 sheets

3. Project: **Fort McClellan**4. Location: **Calhoun County, Alabama**5. Name of driller: **Ken Gobell**6. Mfr. designation of drill: **CME-550**

7. Sizes and types of drilling and sampling equipment:

4.25" HSAs, 2"x24" Split Spoons

8. Hole location: **Ground Scar Near the ASP, Parcel 156**9. Surface elevation (feet above mean sea level): **819.73**10. Date started: **10/05/99**11. Date completed: **10/08/99**12. Overburden thickness (feet bgs): **>29**15. Depth groundwater encountered (feet bgs): **25**13. Depth drilled into rock (feet bgs): **0**16. Depth to water and elapsed time after drilling completed (feet bgs): **14.46 from TOC, after 12 days**14. Total depth of hole (feet bgs): **29**17. Other water level measurements (specify): **12.21 from TOC on 10/13/99**

18. Geotechnical samples:

Collected:

Disturbed:

Undisturbed:

19. Total no. of core boxes: **NA**

NA

20. Samples for chemical analysis:

VOC

Metals

Other (specify)

Other (specify)

Other (specify)

21. Total core recovery:

X

X

SVOCs, PCBs

Herbs, Pests

Nitro Expl.

NA

22. Disposition of hole:

Backfilled

Monitoring well

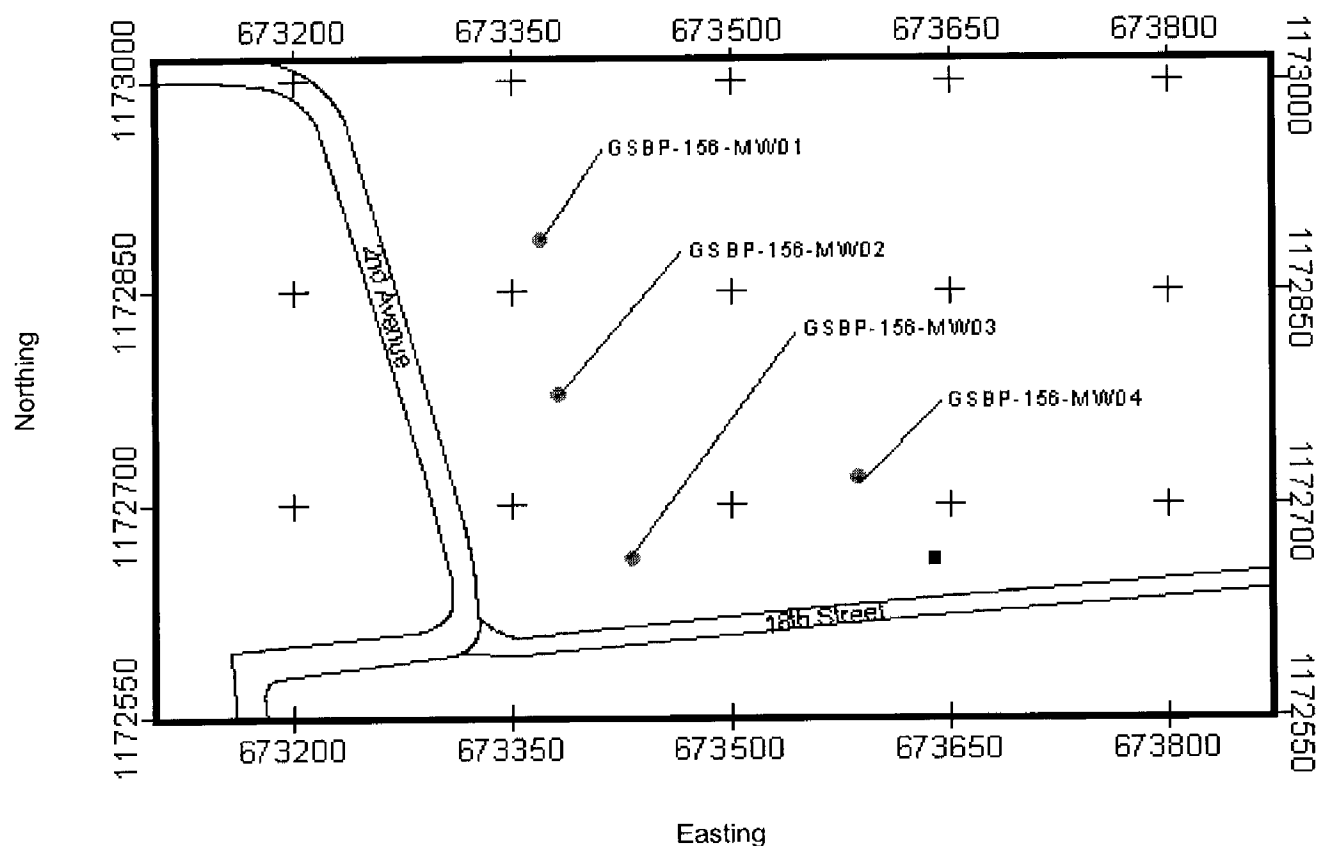
Other (specify)

Geologist:

JAMES DENDY

X

LOCATION SKETCH/COMMENTS:

Project: **Fort McClellan**bgs= below ground surface
NA = Not applicableHole no.: **GSBP-156-MW04**

(Continuation Sheet)

HOLE NUMBER: GSBP-156-MW04

Project: Fort McClellan

Geologist: JAMES DENDY

Sheet 2 of 4 sheets

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HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: GSBP-156-MW04

Project: Fort McClellan

Geologist: JAMES DENDY

Sheet 3 of 4 sheets

[illegible]

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: GSBP-156-MW04

Project: Fort McClellan

Geologist: JAMES DENDY

Sheet 4 of 4 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		ml: Gray SILT, some black Shale.							
21									
22									
23			ml						
24									
795									
25		cl: Moist CLAY.							
26									
27			cl						
28									
29									Saturated at 29'. Bottom of borehole at 29'.

Boring Log Report Form

Boring No. SI14-GW301

Page 1 of 2

Client USACE
 Site Location SI 14
 ESE Field Crew Leader Rich Hill
 Date Start 5-20-98 Finish 5-20-98
 Contractor: Graves Services
 Boring Depth 14' Diameter 2"
 Boring Location see MAP

ESE Project FTMC-SI
 ESE Project No. 3196314G
 ESE Project Manager William Elliott
 Drill Type Geoprobe
 Driller Josh Toney
 Geologist: Rich Hill

Depth (ft)	Sample Interval	Sample #	Sample Type	Blows per 6 inches	Soil Headspace	Breathing Zone	DESCRIPTION	USCS Classification	REMARKS
0'-2'							0'-2' - Silty sand, 20% silt, yellowish brown (10YR-5/14), non plastic, poorly graded, med dense, subangular, moist	SM	Collectan sample SSO1A (EFM2P*57) FROM 0-1'
2'-12'							2'-12' Sandy clay, light grey (10YR-7/1) to yellowish brown (10YR-5/1), moderate to high plasticity, firm to stiff, moist	CL	Collectan sample SSO1B (EFM2P*58) FROM 3-4'
12'-14'							12'-14' shale - black (10YR-2/1), dense, dry	RL	- TO 14'

Boring Log Report Form

Boring No. SI14-CW502

Page 1 of 2

Client USACE

ESE Project FTMC-SI

Site Location SI 14

ESE Project No. 3196314G

ESE Field Crew Leader: Rich Hill

ESE Project Manager William Elliott

Date Start 5-20-98 Finish 5-20-98

Drill Type Geoprobe

Contractor: Graves Services

Driller Josh Toney

Boring Depth 11' 3" Diameter 2"

Geologist: Rich Hill

Boring Location See MAP

Depth (ft)	Sample Interval	Sample #	Sample Type	Blows per 6 inches	Soil Headspace	Breathing Zone	DESCRIPTION	USCS Classification	REMARKS
0							0'-4' - SILTY SAND, 25% SILT, STRONG BROWN, 7.51R-5/6	SM	COLLECTED SAMPLE S8024 (EFM28*59) FROM 0-1'
4							NEW PLASTIC, MEDIUM DENSE, POORLY GRADED, SUBANGULAR, MOIST		
6							4'-7 1/2' - CLAYEY SAND, 25% CLAY, STRONG BROWN (7.51R-5/6), MOD. PLASTIC, FIRM, MOIST	SC	COLLECTED SAMPLE S8027 (EFM28*60) FROM 5-4'
8							7 1/2' - 11' 3" - SHALE, LIGHT BROWNISH GRAY (10YR-6/2), MEDIUM DENSE, DRY	RX	
10									- TD = 11' 3"
12									
14									
16									
18									
20									
22									
24									
26									
28									
30									
32									
34									
36									
38									
40									
42									
44									
46									
48									
50									

Rx = Rock

Boring Log Report Form

Boring No. SI14-GW503 Page 1 of 2

Client USACE
 Site Location SI14
 ESE Field Crew Leader Rich Hill
 Date Start 5-20-98 Finish 5-20-98
 Contractor: Graves Services
 Boring Depth 12.5' Diameter 2"
 Boring Location Ref 44A

ESE Project FTMC-SI
 ESE Project No. 3196314G
 ESE Project Manager William Elliott
 Drill Type Geoprobe
 Driller Tasha Tanya
 Geologist: Rich Hill

Depth (ft)	Sample Interval	Sample #	Sample Type	Blows per 6 inches	Soil Headspace	Breathing Zone	DESCRIPTION	USCS Classification	REMARKS
0-2'							0-2' - SILTY SAND, 35% SILT, LIGHT YELLOWISH BROWN (10YR-6/4), NON-PLASTIC, MEDIUM DENSE, POORLY GRAINED, SUB ANGULAR, MOIST.	SM	COCKEtrap SAMPLE S803A (EF428 *61)
2-8'							2'-8' - CLAYEY SAND, 25% CLAY, PALE BROWN, 10YR-6/3, MOD. PLASTIC, FIRM, MOIST.	SC	FROM 0-1'
8-12.5'							8-12.5 - CLAYEY SHALE, 10% CLAY, GRAY (7.5YR 6/1) + STRONG BROWN (7.5YR 5/8); LOW PLASTIC; STIFF; SL. MOIST.	RX	COCKEtrap SAMPLE S803B (EF428 *62) FROM 3-4'
									TD=12.5'

Boring Log Report Form

Boring No. SI14-GWS04

Page 1 of 2

Client USACE

ESE Project FTMC-SI

Site Location SI14

ESE Project No. 3196314G

ESE Field Crew Leader Rich Hill REH

ESE Project Manager William Elliott

Date Start 5-21-98 Finish 7-21-98

Drill Type Geoprobe

Contractor: Graves Services

Driller JOE TONAY

Boring Depth 12' Diameter 2"

Geologist: Rich Hill REH

Boring Location SEA MAR

Depth (ft)	Sample Interval	Sample #	Sample Type	Blows per 6 inches	Soil Headspace	Breathing Zone	DESCRIPTION	USCS Classification	REMARKS
1-							CLAY & SAND w/ 40% CUMULATIVE; GRAYISH YELLOW (104A 6/6) MOD. PLASTIC; FIRM; SC. MOIST (0-2')	SC	COLLECTED SAMPLES S809 (KFM28 & 70) FROM 0-11
2-									
3-							Color changed to Lt. Brown (7.54A 6/5) (2-3')	SC	
4-									
5-							Color changed to Yellow RED (54A 4/1) (3-5')	SC	
6-							Sandy CLAY w/ ~25% SAND; Yellow Brown (104A 6/6); MOD. TO HIGHLY PLASTIC AT BOTTOM + LESS SAND AT BOTTOM; FIRM; SL. MOIST. (5-7)	CL	
7-									
8-							WEATHERED SHALE w/ ~25% CLAY; Yellow Brown (104A 6/6); NON-PLASTIC; MOD. FIRM, SL. MOIST. CLAY LENSES (Lt. OLIVE CLAY 54 4/2) @ ~9' + 11'	RX	
9-									
10-									
11-									
							TOTAL DEPTH 12'		

WELL CONSTRUCTION LOGS

MONITORING WELL INSTALLATION DETAIL

PROJECT: Fort McClellan, SAD TERC

LOCATION Anniston, AL

CLIENT: USACE Mobile District

CONTRACTOR MILLER DRILLING

DRILLER: KEN GOBELL

IT FIELD REPRESENTATIVE: JAMES DENDY

WELL NO: GSBP-156-MW01

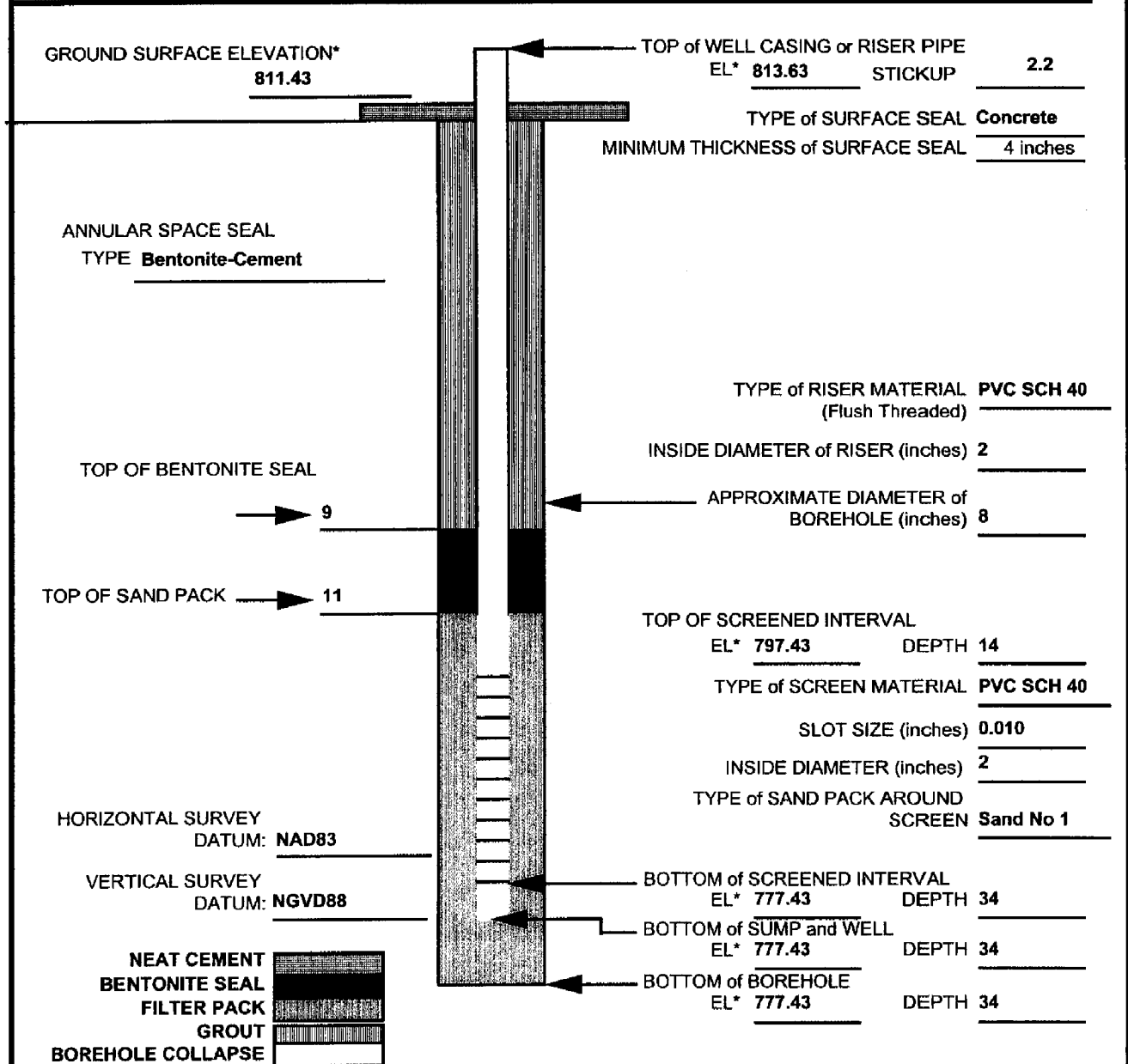
DRILLING METHOD:
Hollow Stem Auger

INSTALLATION DATE 10/08/99

NORTHING: 1172885.75

EASTING: 673368.79

JOB NO: 774645A



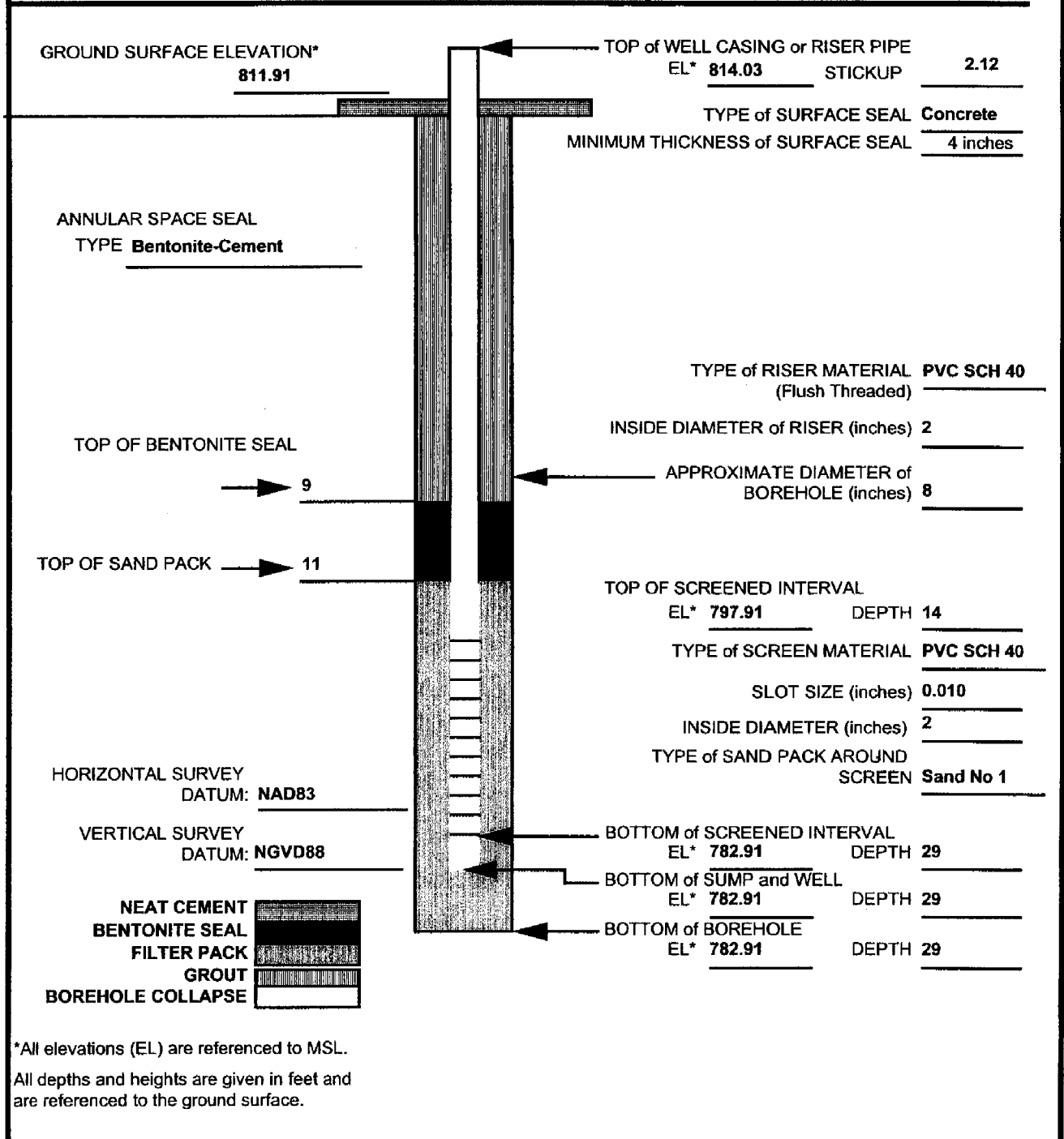
*All elevations (EL) are referenced to MSL.

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: KEN GOBELL
 IT FIELD REPRESENTATIVE: JAMES DENDY

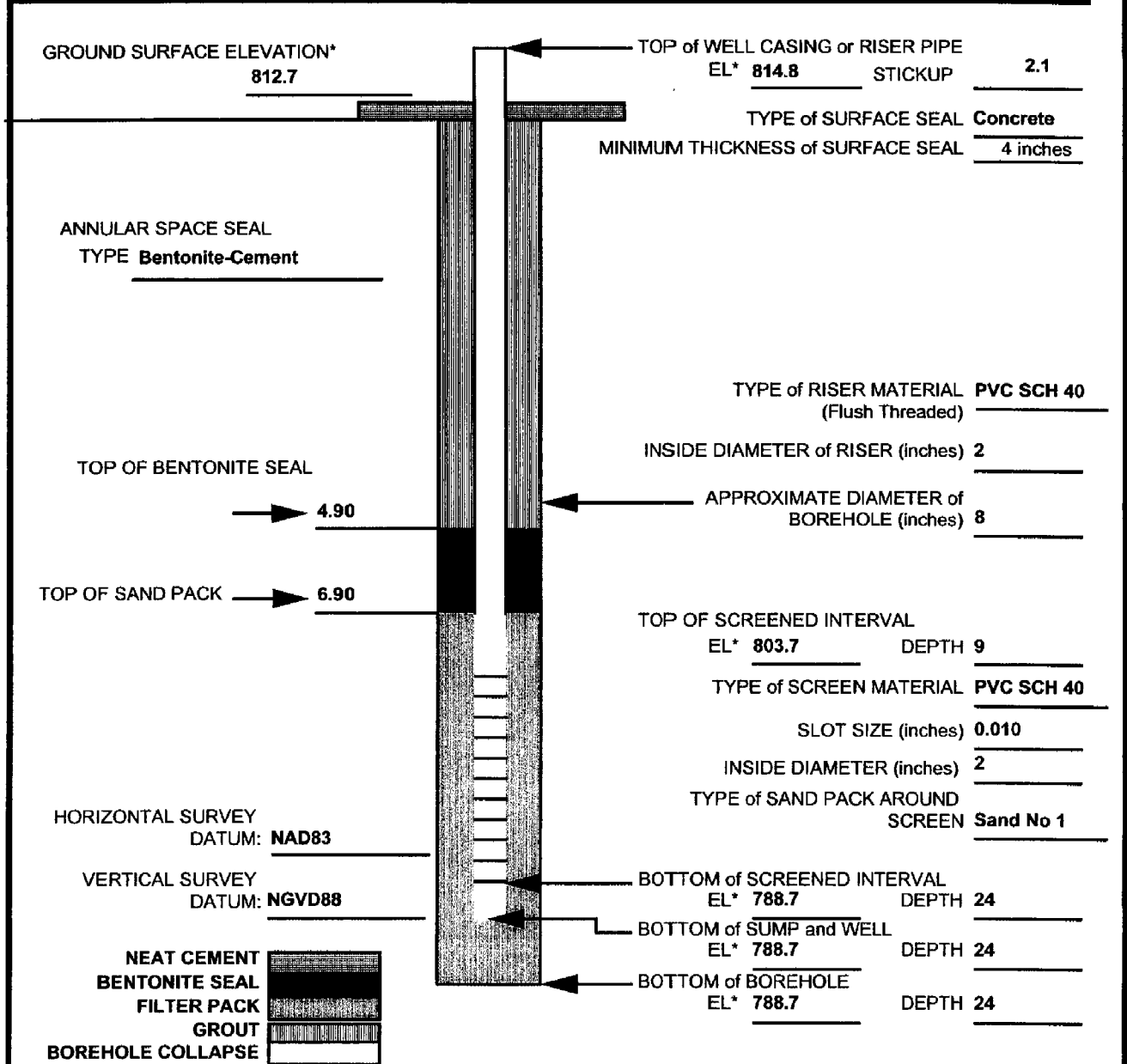
WELL NO: GSBP-156-MW02
 DRILLING METHOD:
 Hollow Stem Auger
 INSTALLATION DATE 10/08/99
 NORTHING: 1172774.72
 EASTING: 673381.67
 JOB NO: 774645A



MONITORING WELL INSTALLATION DETAIL

PROJECT: Fort McClellan, SAD TERC
 LOCATION Anniston, AL
 CLIENT: USACE Mobile District
 CONTRACTOR MILLER DRILLING
 DRILLER: KEN GOBELL
 IT FIELD REPRESENTATIVE: JAMES DENDY

WELL NO: GSBP-156-MW03
 DRILLING METHOD:
 Hollow Stem Auger
 INSTALLATION DATE 10/08/99
 NORTHING: 1172660.58
 EASTING: 673432.03
 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: KEN GOBELL

IT FIELD REPRESENTATIVE: JAMES DENDY

WELL NO: GSBP-156-MW04

DRILLING METHOD:

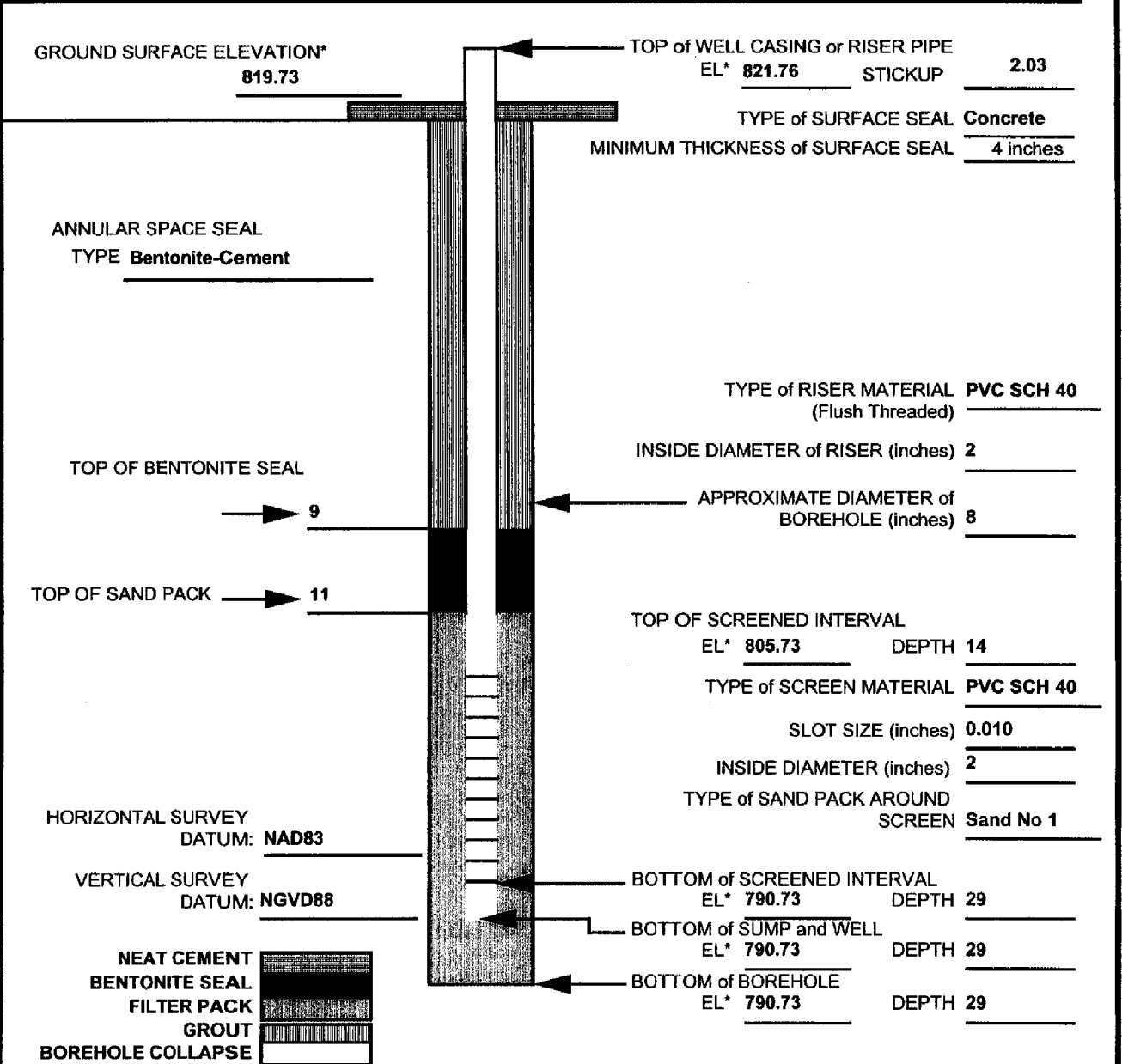
Hollow Stem Auger

INSTALLATION DATE 10/08/99

NORTHING: 1172716.98

EASTING: 673585.31

JOB NO: 774645A



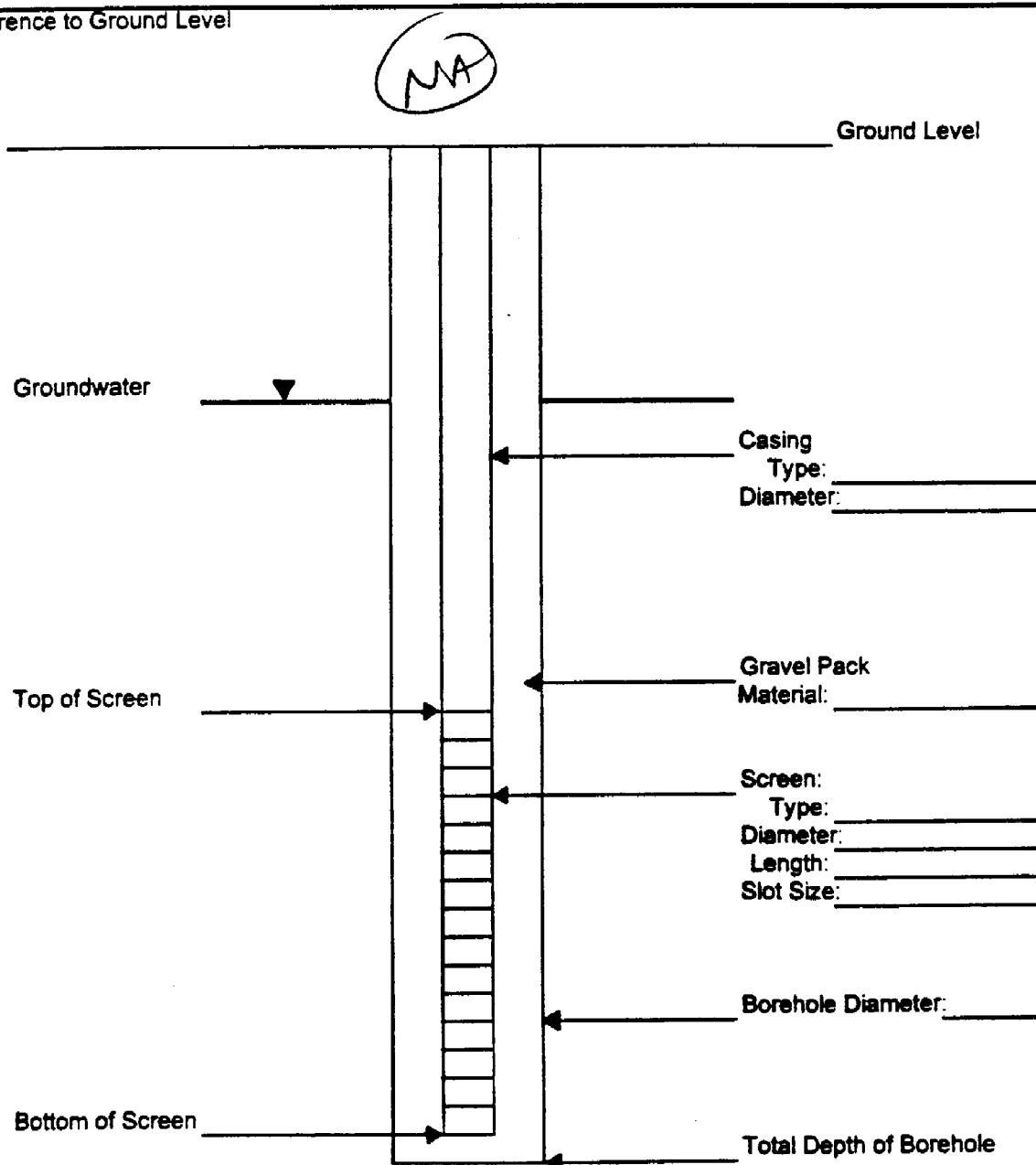
*All elevations (EL) are referenced to MSL.

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

Temporary Monitor Well Construction Log

Well ID: SI14-GW521 Project #: 3196314G
 Logged By: RA Hill Client: USACE
 Drilling Contractor: GRUBS Start Date/Time: 5-20-98
 Driller's Name: JOSE TONEY Finish Date/Time: DID NOT SET
 Comments: DID NOT SET. REFUSAL @ 14' IN SHALE.

Depths are in Reference to Ground Level

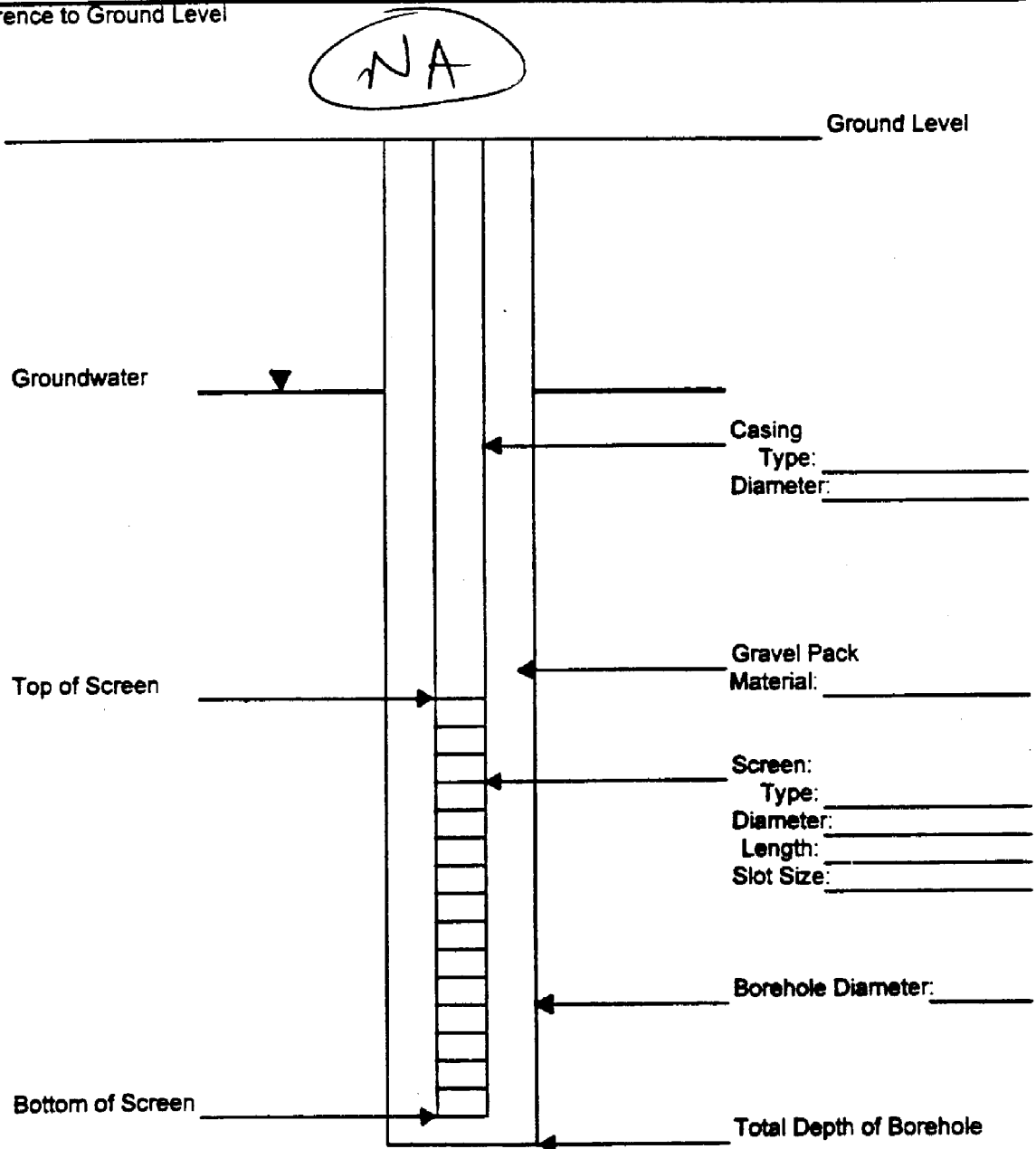


Temporary Monitor Well Construction Log

Well ID: SI14-CWS02
 Logged By: RA Hull
 Drilling Contractor: GRAVES
 Driller's Name: JOSEPH TONEY
 Comments: DID NOT SET - REFUSAL AT 11' 3" IN SHAFT

Project #: 3196314G
 Client: USACE
 Start Date/Time: 5-20-98
 Finish Date/Time: DID NOT SET

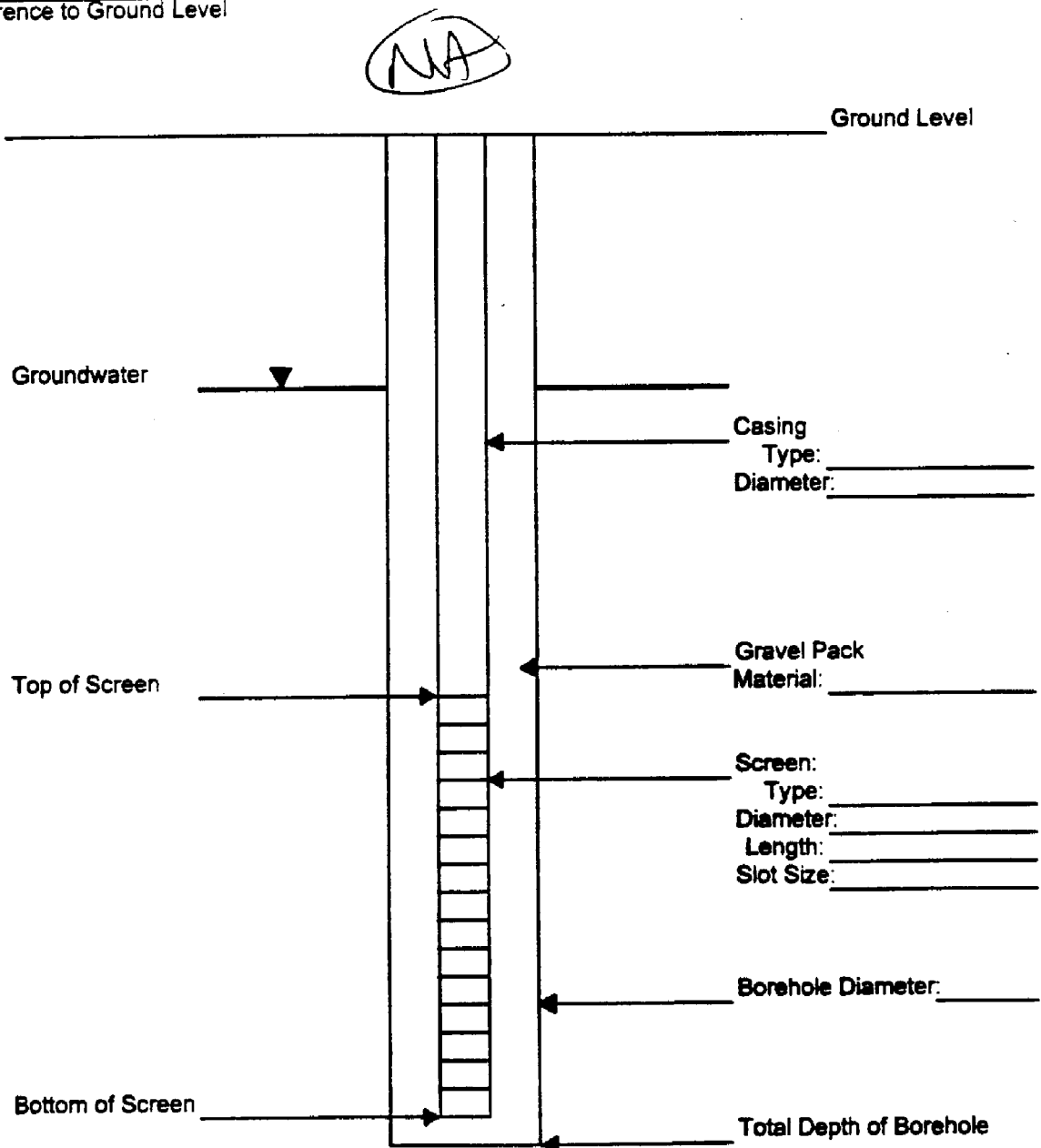
Depths are in Reference to Ground Level



Temporary Monitor Well Construction Log

Well ID: S214-GW503 Project #: 3196314G
 Logged By: RA Hill Client: USACE
 Drilling Contractor: GRAVES Start Date/Time: 5-20-98
 Driller's Name: JOSEPH TONEY Finish Date/Time: DID NOT SET
 Comments: DID NOT SET. Dry Hole. Refusal @ 12' IN SHALE

Depths are in Reference to Ground Level



2052

Temporary Monitor Well Construction Log

Well ID: SI14-60504 Project #: 3196314G
 Logged By: BCIA Client: USACE
 Drilling Contractor: 664VAP Start Date/Time: 7-21-98
 Driller's Name: JOSIA TONKES Finish Date/Time: 7-21-98
 Comments: DID NOT SRT - REFUSE @ 12' IN SHALE

Depths are in Reference to Ground Level

