

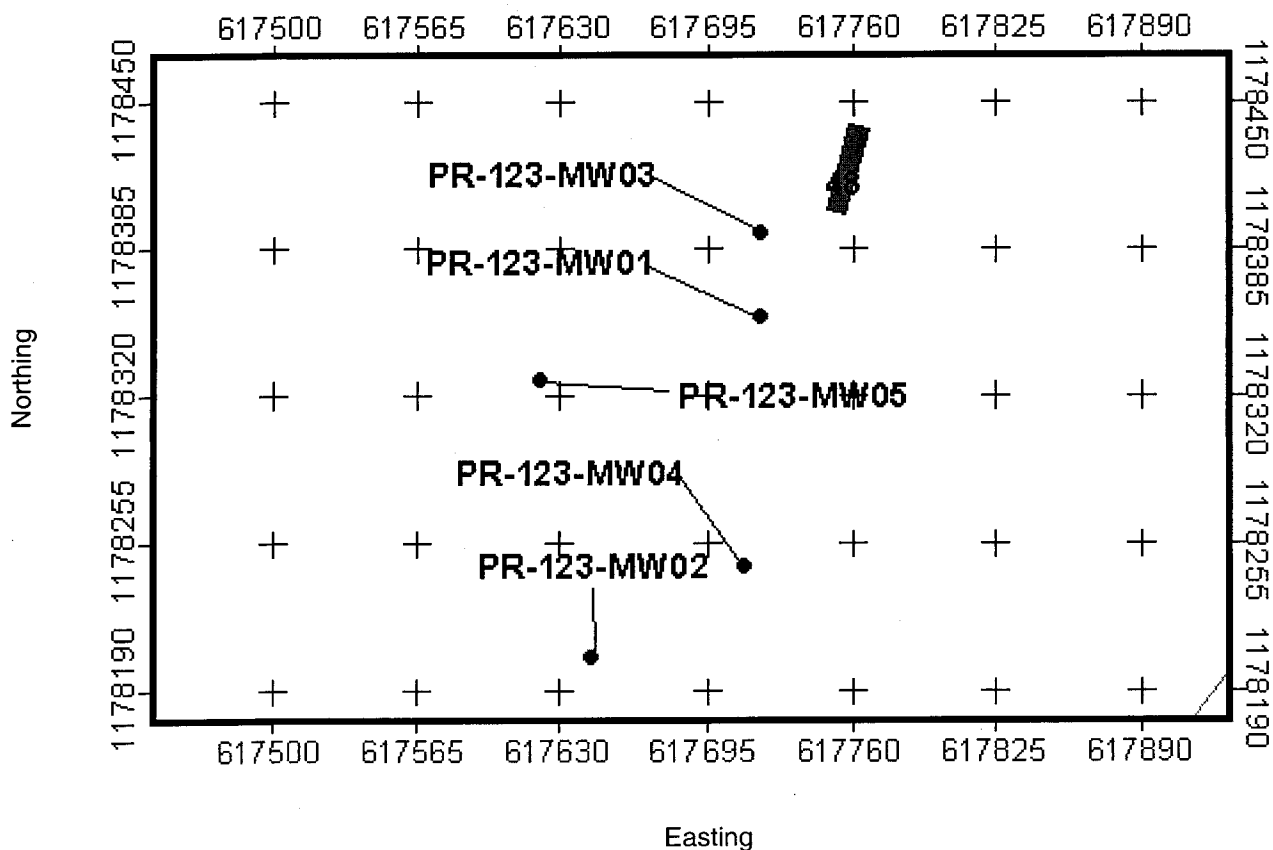
APPENDIX B

BORING LOGS AND WELL CONSTRUCTION LOGS

BORING LOGS

HTRW DRILLING LOG		District: Mobile USACE		HOLE NUMBER PR-123-MW01	
1. Company name: IT Corporation		2. Drill Subcontractor: ESN/Miller Drilling Company		Sheet 1 of 9 sheets	
3. Project: Fort McClellan		4. Location: Calhoun County, Alabama			
5. Name of driller: S. McDaniel/R. McNeil		6. Mfr. designation of drill: Geoprobe/Schramm T-450W			
7. Sizes and types of drilling and sampling equipment: Direct Push/Air Rotary AR - 6" Roller Bit		8. Hole location: Range 4A Fog Oil Storage Area, Pelham Rng., Parcel 123			
		9. Surface elevation (feet above mean sea level): 606.06			
		10. Date started: 03/26/01		11. Date completed: 05/09/01	
12. Overburden thickness (feet bgs): >77		15. Depth groundwater encountered (feet bgs): 67			
13. Depth drilled into rock (feet bgs): 0		16. Depth to water and elapsed time after drilling completed (feet bgs): NA			
14. Total depth of hole (feet bgs): 77		17. Other water level measurements (specify): NA			
18. Geotechnical samples:	Collected:	Disturbed:	Undisturbed:	19. Total no. of core boxes: NA	
20. Samples for chemical analysis:	VOC	Metals	Other (specify)	Other (specify)	21. Total core recovery:
	X	X	SVOCs		NA
22. Disposition of hole:	Backfilled	Monitoring well	Other (specify)	Geologist:	
		X		L. O'Hare/N. Badon/S. White	

LOCATION SKETCH/COMMENTS:



Project: **Fort McClellan**

bgs= below ground surface
NA = Not applicable

Hole no.: **PR-123-MW01**

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: PR-123-MW01

Project: Fort McClellan

Geologist: L. O'Hare/N. Badon/S. White

Sheet 2 of 9 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	gm: Light brown medium to coarse subangular GRAVEL, some medium to coarse Sand, little Silt, dry.	gm		Organic Vapor = 0.0ppm		HH0001		Rec 1.0'/1.0'
605	1	sm: Light brown fine to coarse SAND, some Silt, some coarse subangular Gravel, trace Clay, moist.	sm		Organic Vapor = 0.0ppm				Rec 1.0'/3.0'
	2								
	3								
	4	sc: Light brown medium stiff CLAY, some medium to coarse Sand, little fine subangular Gravel, moist.	sc						Rec 1.5'/3.0'
	5								
600	6				Organic Vapor = 0.0ppm		HH0002		Direct push refusal at 7' bgs
	7	cl: Reddish-brown, dry to moist CLAY, some chert, little Silt.	cl						Description from air rotary drill cuttings (7-77' bgs)
	8								
	9								
	10								

HTRW DRILLING LOG (Continuation Sheet)						HOLE NUMBER: PR-123-MW01			
Project: Fort McClellan			Geologist: L. O'Hare/N. Badon/S. White			Sheet 3 of 9 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)

595

11

12

13

14

15

590

16

17

18

19

20

cl

11

12

13

14

15

16

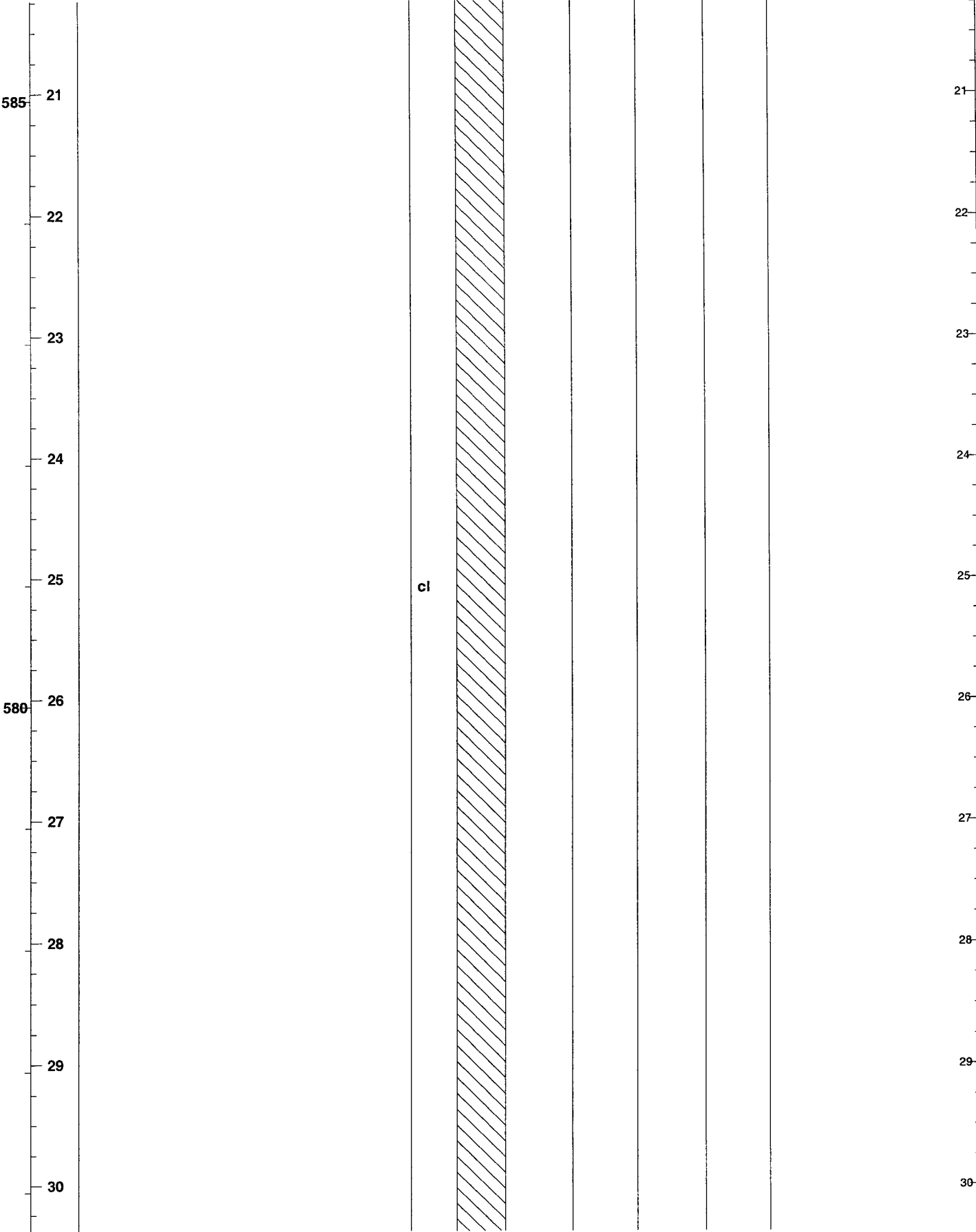
17

18

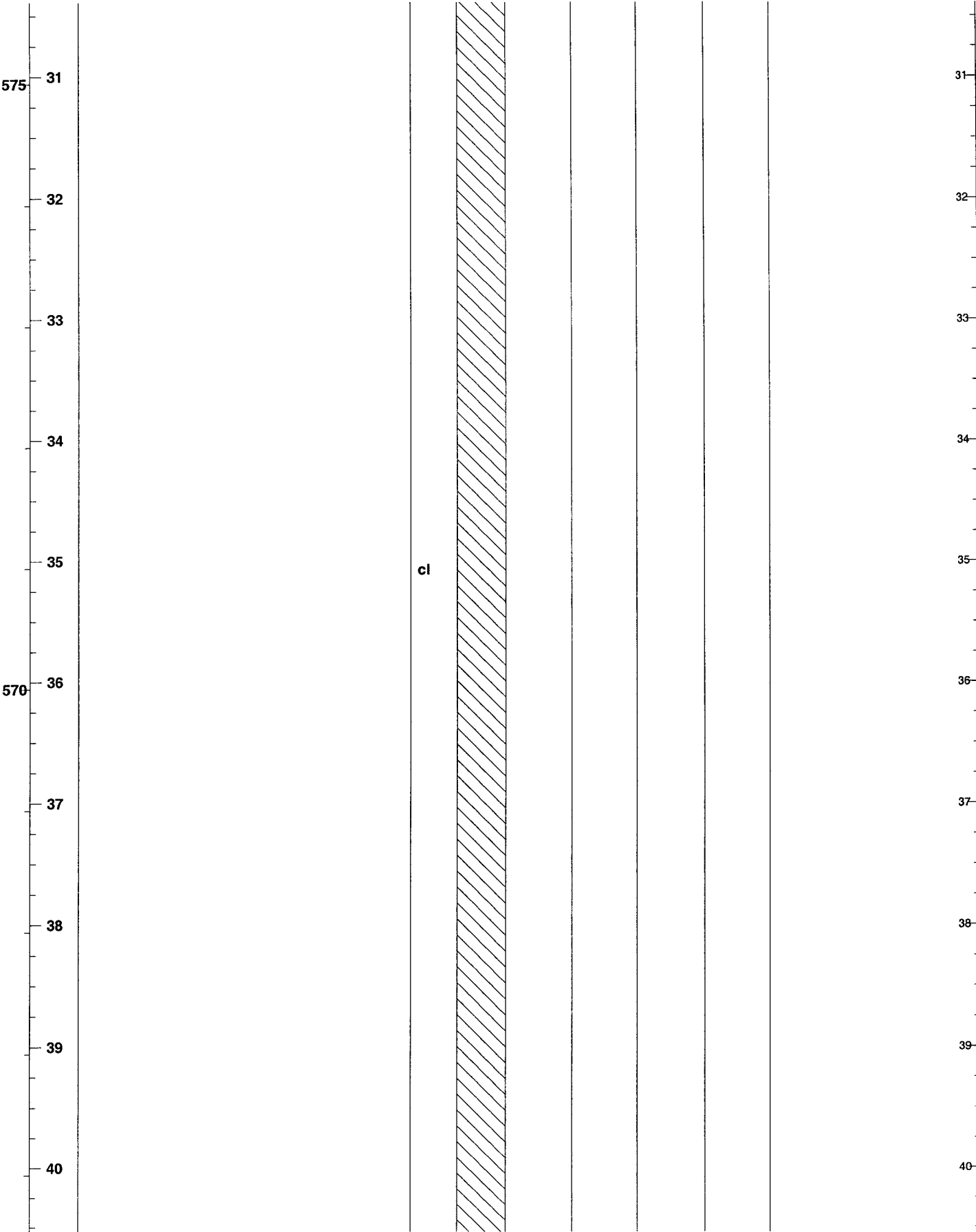
19

20

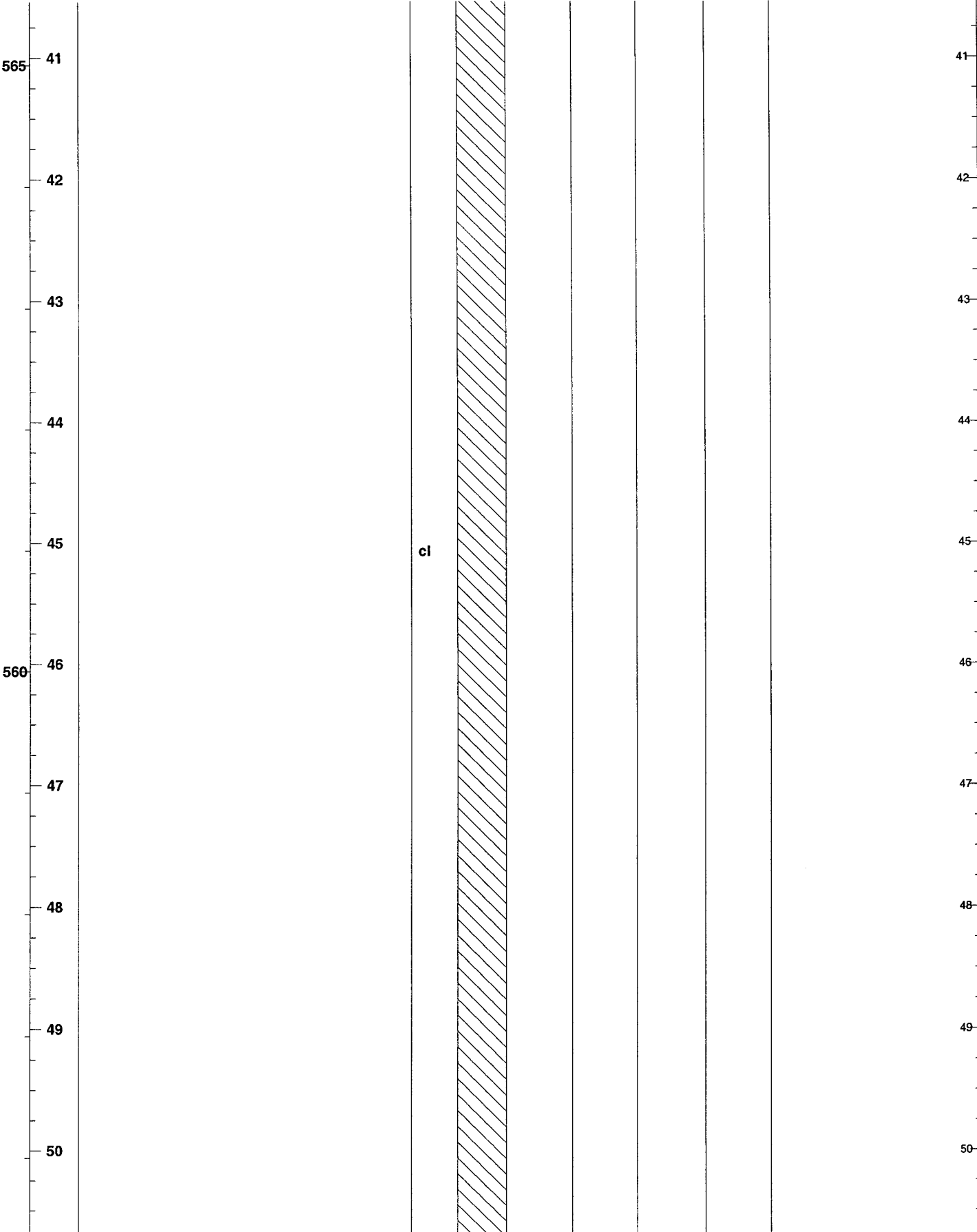
HTRW DRILLING LOG (Continuation Sheet)						HOLE NUMBER: PR-123-MW01			
Project: Fort McClellan			Geologist: L. O'Hare/N. Badon/S. White			Sheet 4 of 9 sheets			
Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow counts (g)	Remarks (h)



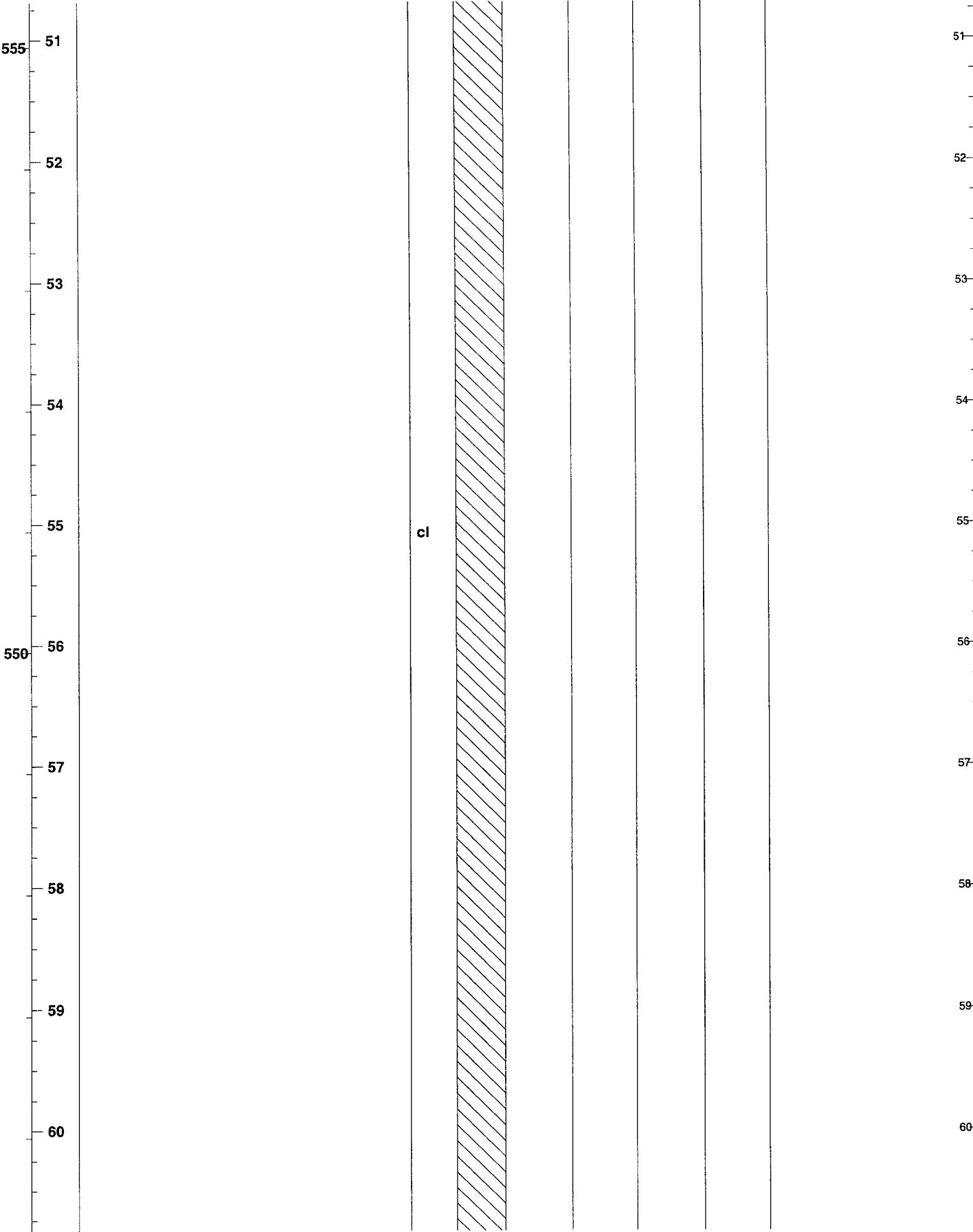
HTRW DRILLING LOG (Continuation Sheet)							HOLE NUMBER: PR-123-MW01		
Project: Fort McClellan				Geologist: L. O'Hare/N. Badon/S. White			Sheet 5 of 9 sheets		
Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow counts (g)	Remarks (h)



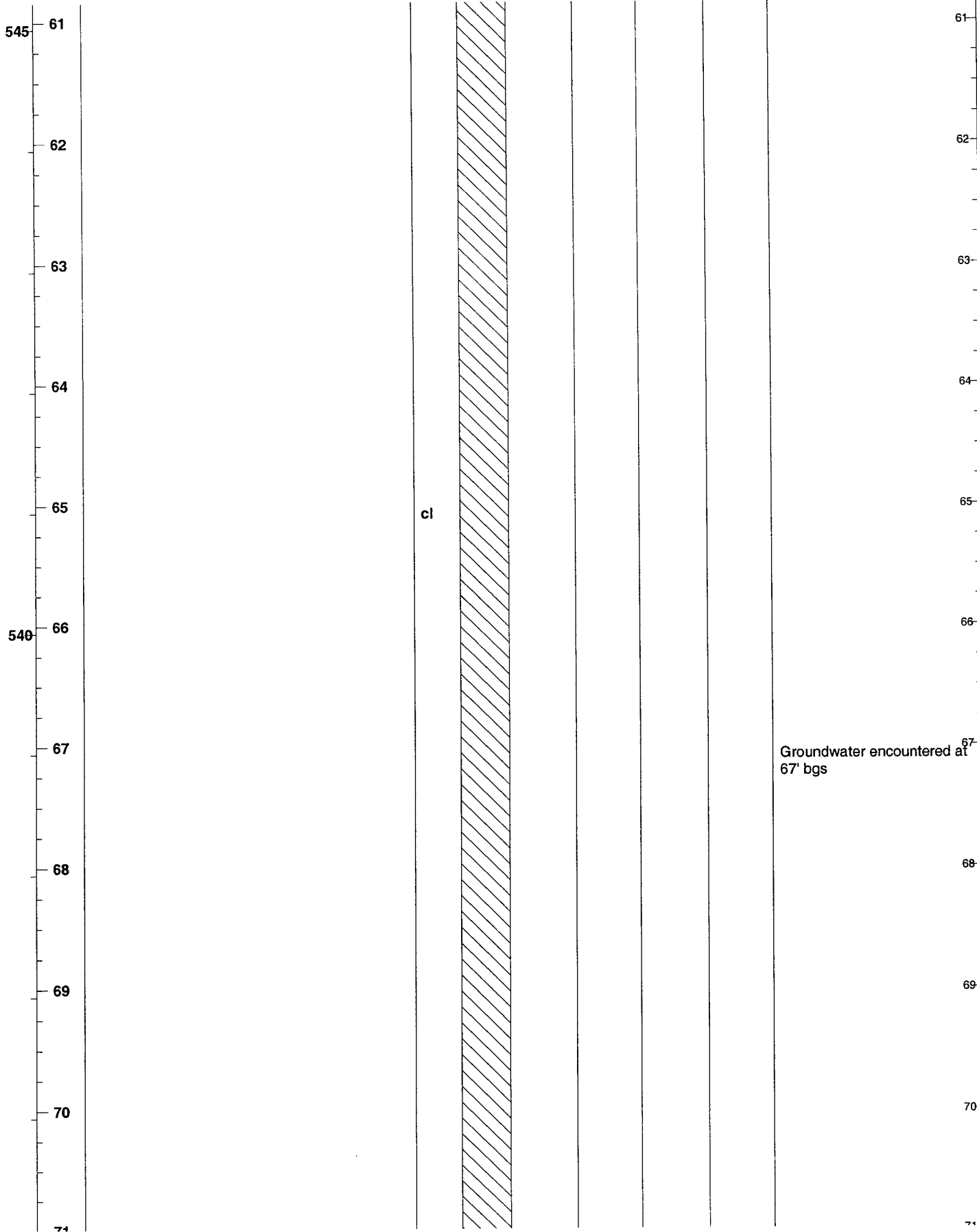
HTRW DRILLING LOG (Continuation Sheet)							HOLE NUMBER: PR-123-MW01		
Project: Fort McClellan				Geologist: L. O'Hare/N. Badon/S. White			Sheet 6 of 9 sheets		
Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow counts (g)	Remarks (h)



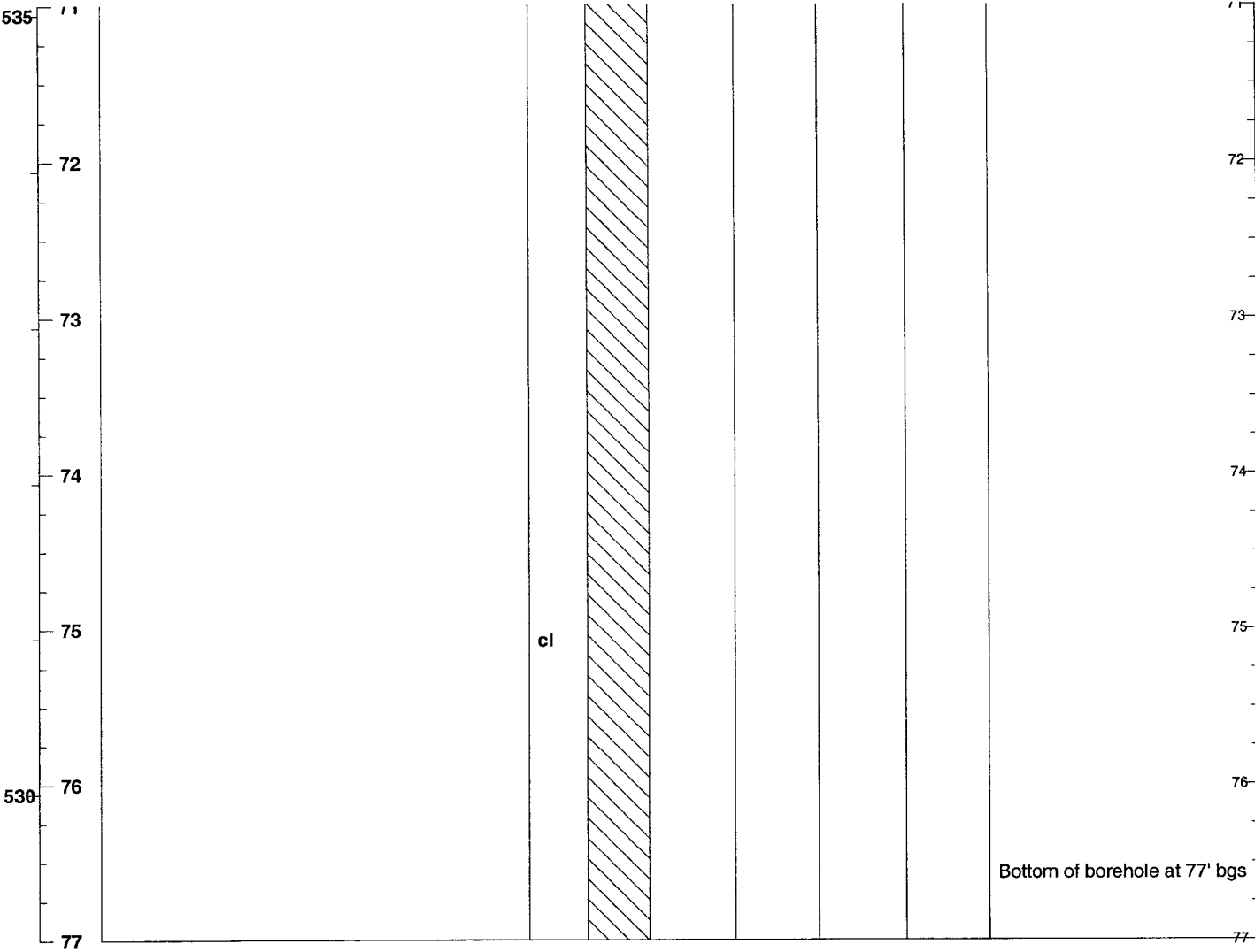
HTRW DRILLING LOG (Continuation Sheet)							HOLE NUMBER: PR-123-MW01		
Project: Fort McClellan				Geologist: L. O'Hare/N. Badon/S. White			Sheet 7 of 9 sheets		
Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow counts (g)	Remarks (h)



HTRW DRILLING LOG (Continuation Sheet)						HOLE NUMBER: PR-123-MW01			
Project: Fort McClellan			Geologist: L. O'Hare/N. Badon/S. White			Sheet 8 of 9 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)

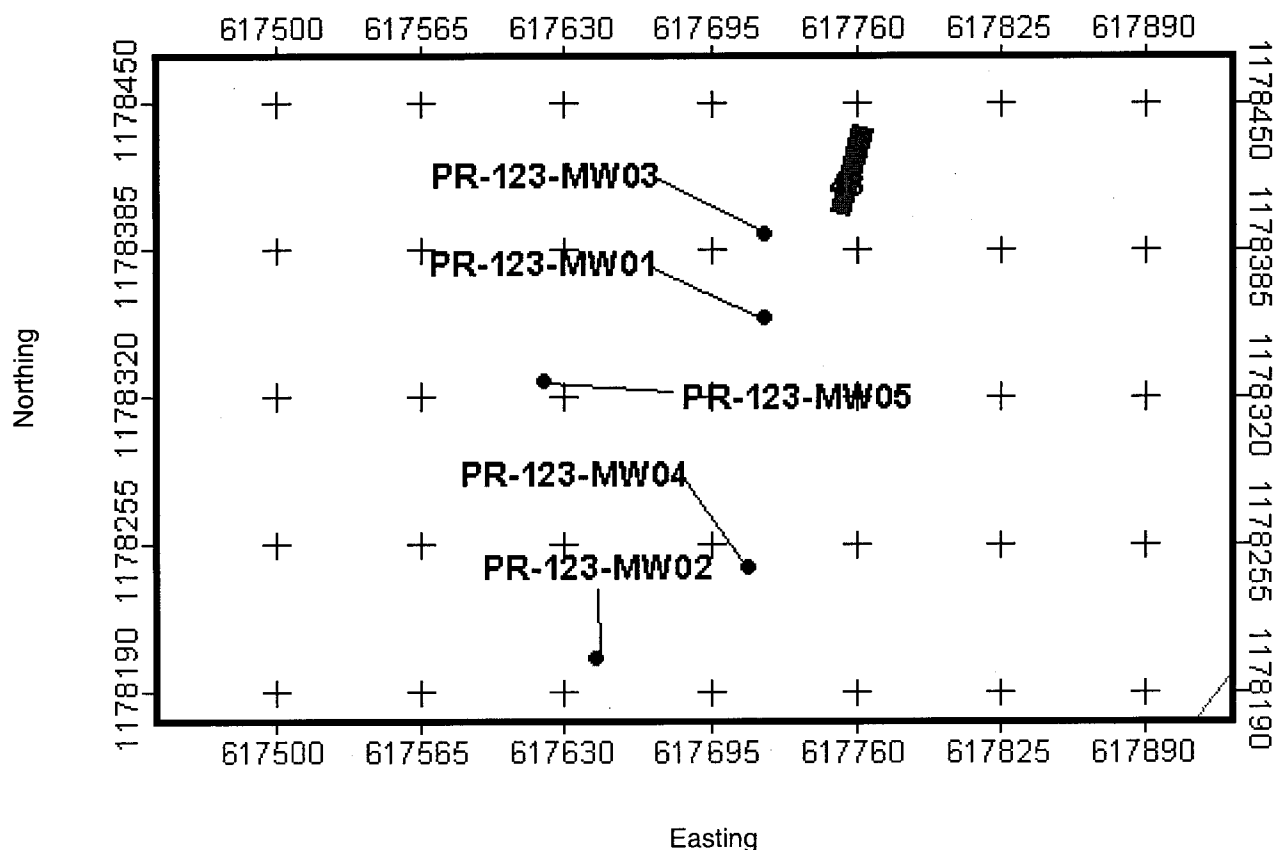


HTRW DRILLING LOG (Continuation Sheet)							HOLE NUMBER: PR-123-MW01		
Project: Fort McClellan				Geologist: L. O'Hare/N. Badon/S. White			Sheet 9 of 9 sheets		
Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow counts (g)	Remarks (h)



HTRW DRILLING LOG		District: Mobile USACE		HOLE NUMBER PR-123-MW02	
1. Company name: IT Corporation		2. Drill Subcontractor: ESN/Miller Drilling Company		Sheet 1 of 10 sheets	
3. Project: Fort McClellan			4. Location: Calhoun County, Alabama		
5. Name of driller: S.McDaniel/R.McNeil/Don White			6. Mfr. designation of drill: Geoprobe/Schramm T-450W/CME 550X		
7. Sizes and types of drilling and sampling equipment: Direct Push, Air Rotary, Hollow Stem Auger DP - 2"x2" Acetate Liners; AR - 6" Roller Bit HSA - 5"x4.25" ID Augers, 2"x2" Steel Split Spoons			8. Hole location: Range 4A Fog Oil Storage Area, Pelham Rng, Parcel 123		
			9. Surface elevation (feet above mean sea level): 628.25		
			10. Date started: 03/26/01	11. Date completed: 05/09/01	
12. Overburden thickness (feet bgs): >82			15. Depth groundwater encountered (feet bgs): 72		
13. Depth drilled into rock (feet bgs): 0			16. Depth to water and elapsed time after drilling completed (feet bgs): NA		
14. Total depth of hole (feet bgs): 82			17. Other water level measurements (specify): NA		
18. Geotechnical samples:	Collected:	Disturbed:	Undisturbed:	19. Total no. of core boxes: NA	
20. Samples for chemical analysis:	VOC	Metals	Other (specify)	Other (specify)	21. Total core recovery:
	X	X	SVOCs		NA
22. Disposition of hole:	Backfilled	Monitoring well	Other (specify)	Geologist:	
		X		J.Dendy/S.White/L.O'Hare/N.Badon	

LOCATION SKETCH/COMMENTS:

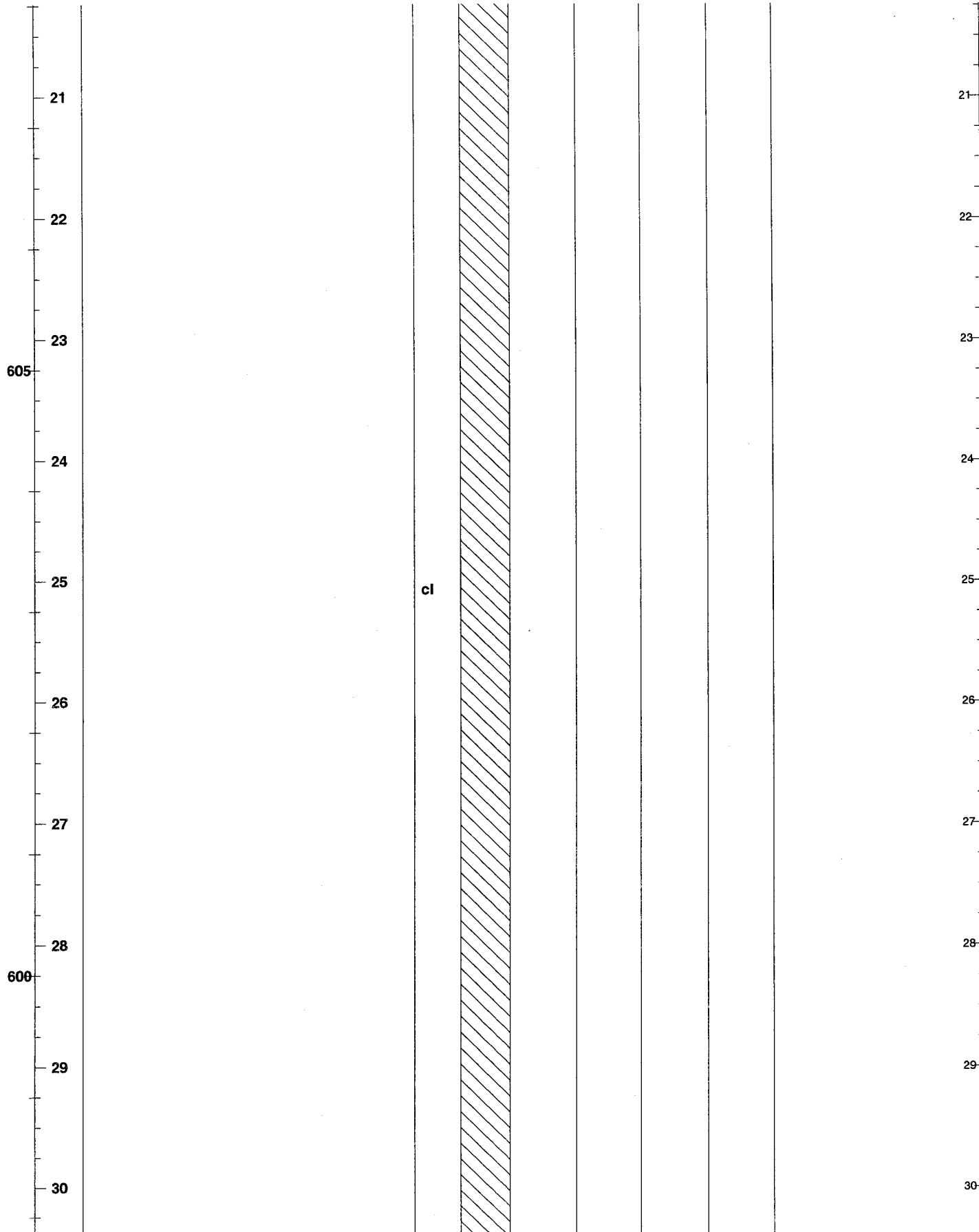


Project: **Fort McClellan**

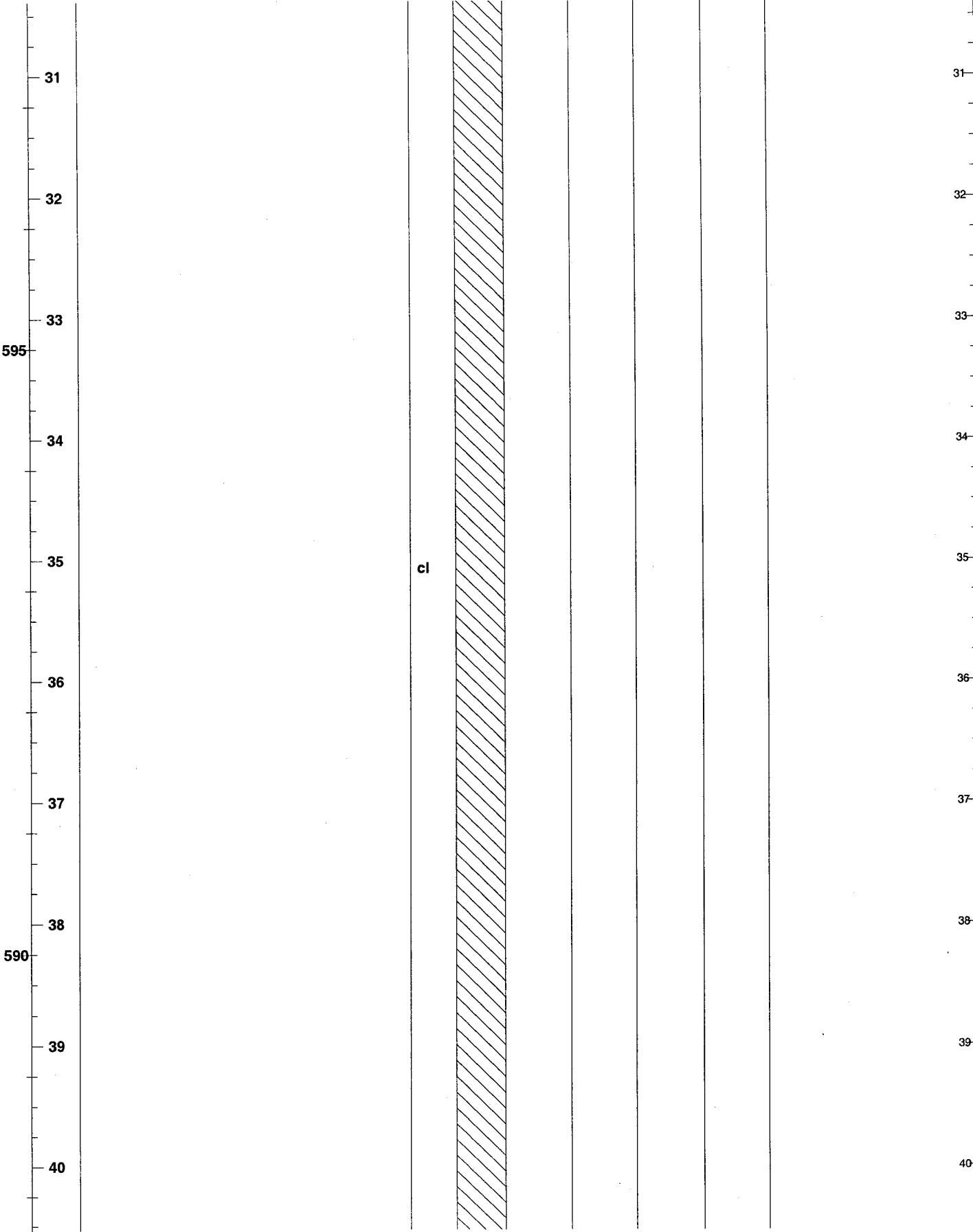
bgs= below ground surface
NA = Not applicable

Hole no.: **PR-123-MW02**

HTRW DRILLING LOG (Continuation Sheet)							HOLE NUMBER: PR-123-MW02		
Project: Fort McClellan				Geologist: LO/NB/JD/SW			Sheet 4 of 10 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)



HTRW DRILLING LOG (Continuation Sheet)							HOLE NUMBER: PR-123-MW02		
Project: Fort McClellan				Geologist: LO/NB/JD/SW			Sheet 5 of 10 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)



HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: PR-123-MW02

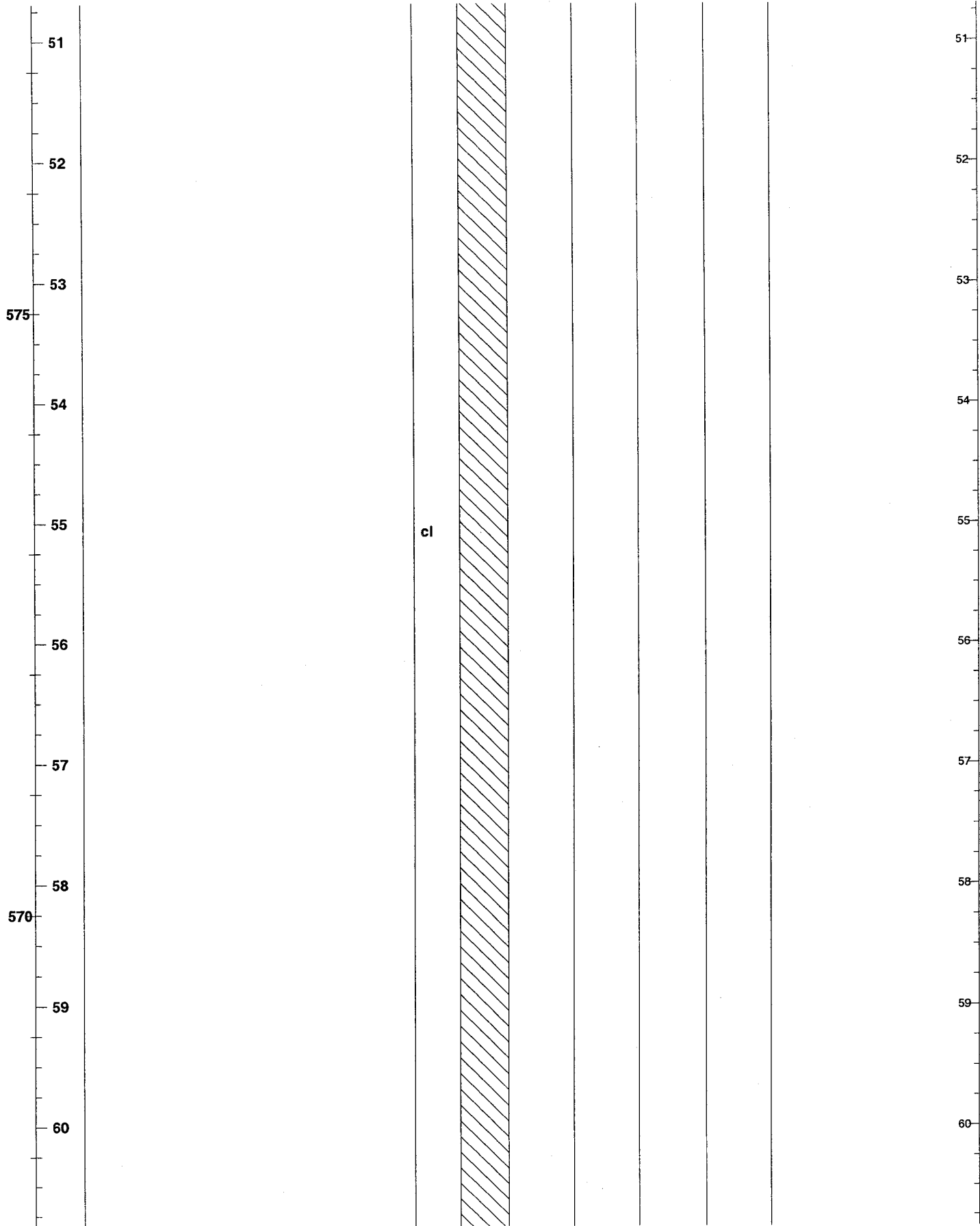
Project: Fort McClellan

Geologist: LO/NB/JD/SW

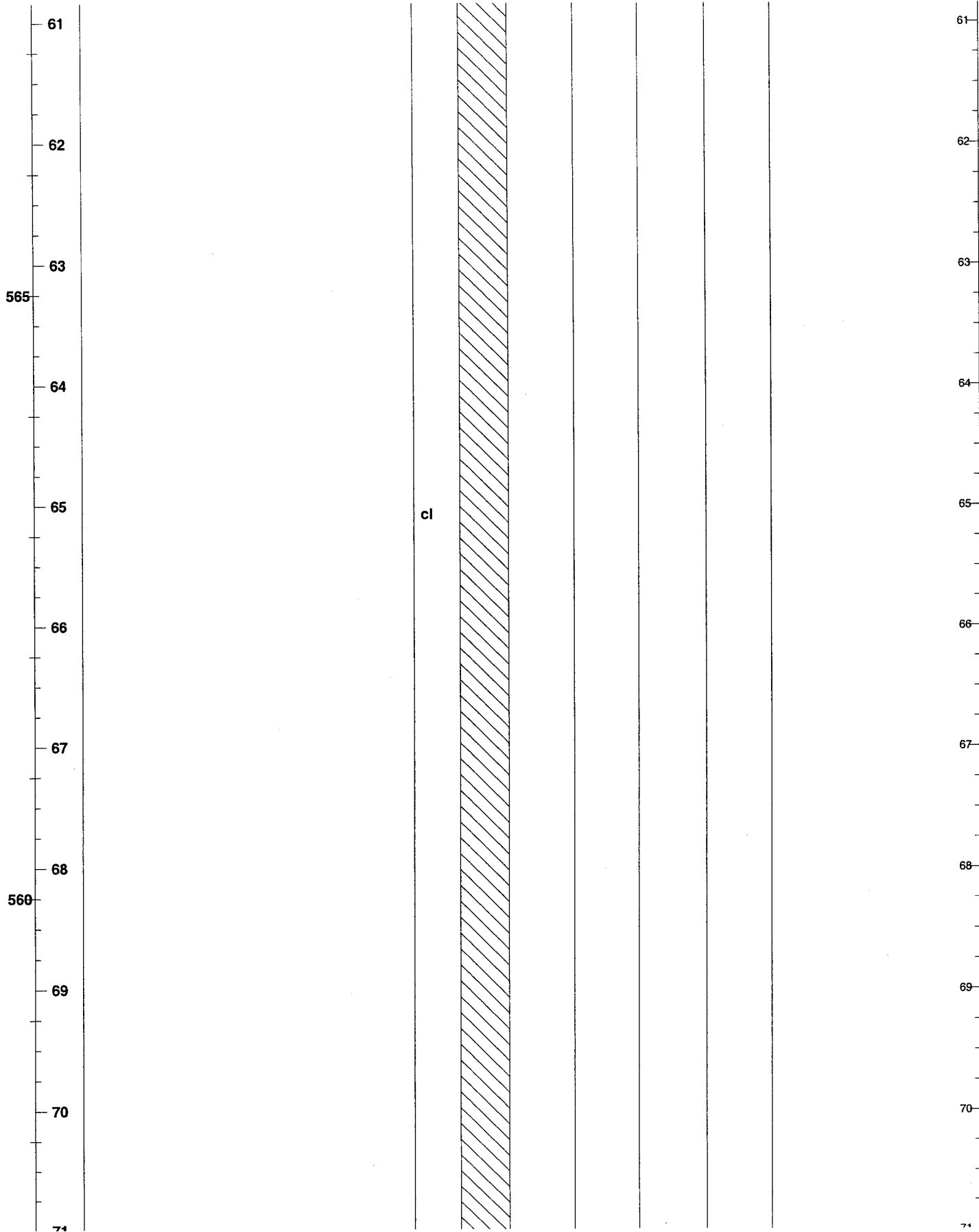
Sheet 6 of 10 sheets

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)
585	41								
	42								
	43								
	44								
	45		cl						
	46								
	47								
580	48								
	49								
	50								

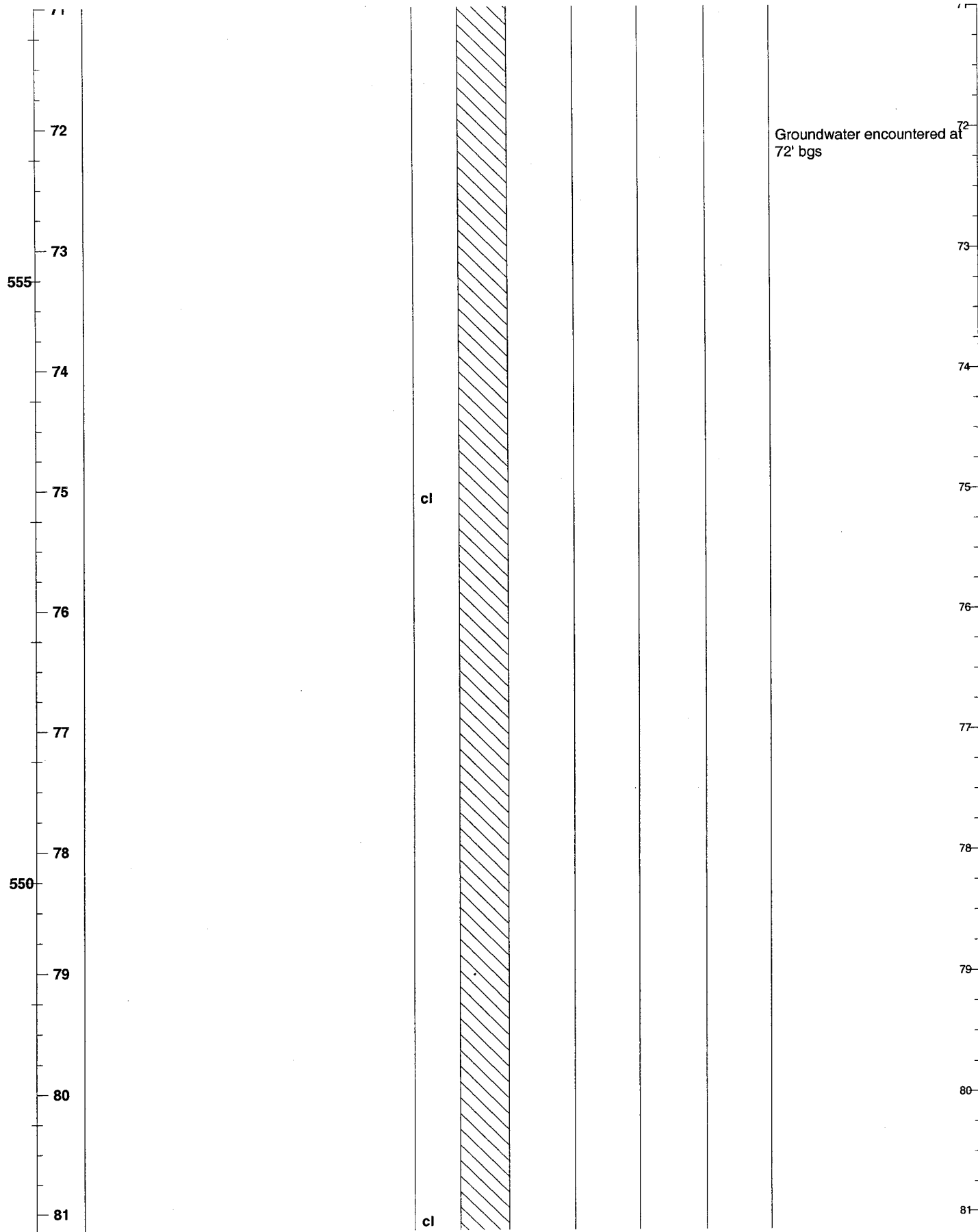
HTRW DRILLING LOG (Continuation Sheet)						HOLE NUMBER: PR-123-MW02			
Project: Fort McClellan			Geologist: LO/NB/JD/SW			Sheet 7 of 10 sheets			
Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow counts (g)	Remarks (h)



HTRW DRILLING LOG (Continuation Sheet)						HOLE NUMBER: PR-123-MW02			
Project: Fort McClellan			Geologist: LO/NB/JD/SW			Sheet 8 of 10 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)



HTRW DRILLING LOG (Continuation Sheet)						HOLE NUMBER: PR-123-MW02			
Project: Fort McClellan			Geologist: LO/NB/JD/SW			Sheet 9 of 10 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)



HTRW DRILLING LOG

(Continuation Sheet)

HOLE NUMBER: PR-123-MW02

Project: Fort McClellan

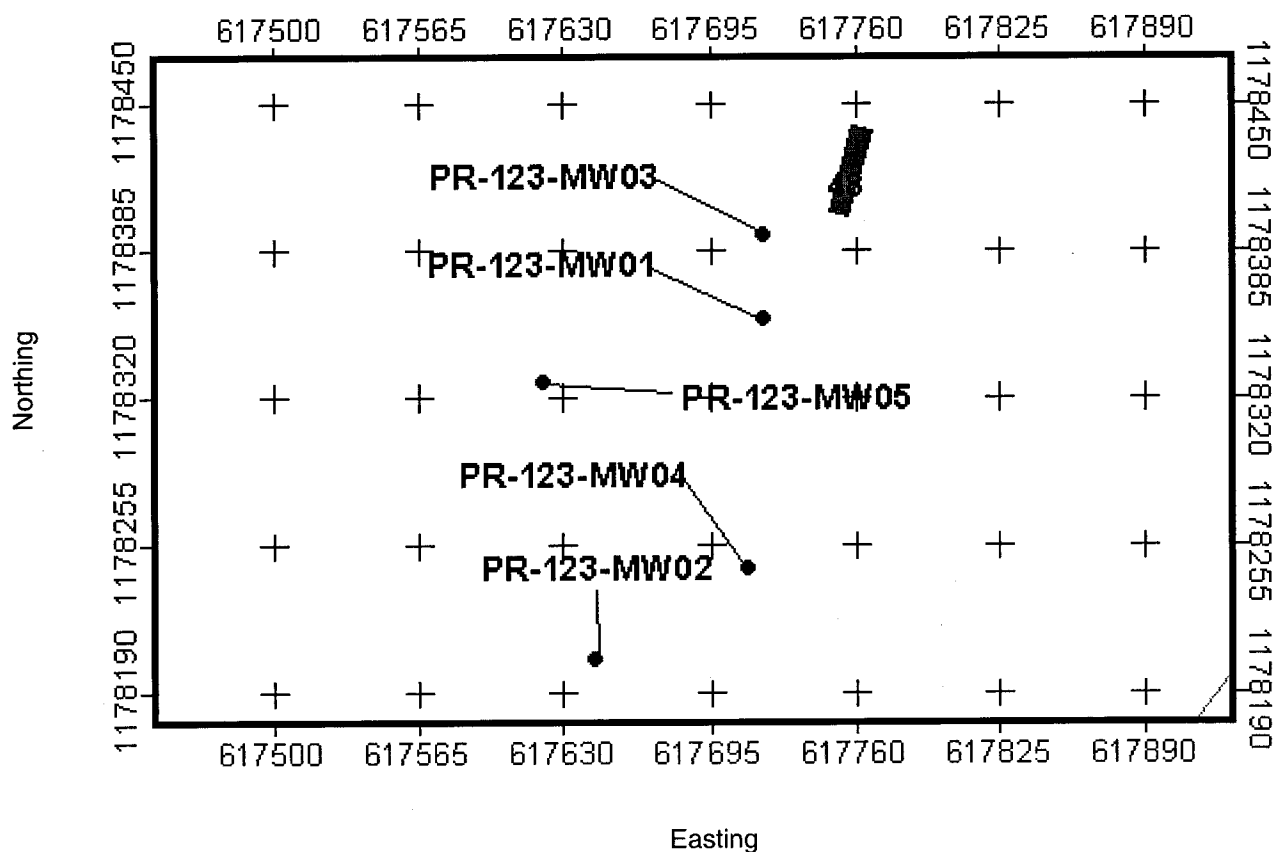
Geologist: LO/NB/JD/SW

Sheet 10 of 10 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)
									Bottom of borehole at 82' bgs

HTRW DRILLING LOG		District: Mobile USACE		HOLE NUMBER PR-123-MW03	
1. Company name: IT Corporation		2. Drill Subcontractor: ESN/Miller Drilling Company		Sheet 1 of 9 sheets	
3. Project: Fort McClellan		4. Location: Calhoun County, Alabama			
5. Name of driller: S. McDaniel/R. McNeil		6. Mfr. designation of drill: Geoprobe/Schramm T-450W			
7. Sizes and types of drilling and sampling equipment: Direct Push/Air Rotary DP - 2"x2" Acetate Liners AR - 6" Roller Bit		8. Hole location: Range 4A Fog Oil Storage Area, Pelham Rng., Parcel 123			
		9. Surface elevation (feet above mean sea level): 605.09			
		10. Date started: 03/26/01	11. Date completed: 05/10/01		
12. Overburden thickness (feet bgs): >77		15. Depth groundwater encountered (feet bgs): 67			
13. Depth drilled into rock (feet bgs): 0		16. Depth to water and elapsed time after drilling completed (feet bgs): NA			
14. Total depth of hole (feet bgs): 77		17. Other water level measurements (specify): NA			
18. Geotechnical samples:	Collected:	Disturbed:	Undisturbed:	19. Total no. of core boxes: NA	
20. Samples for chemical analysis:	VOC	Metals	Other (specify)	Other (specify)	21. Total core recovery:
	X	X	SVOCs		NA
22. Disposition of hole:	Backfilled	Monitoring well	Other (specify)	Geologist:	
		X		L. O'Hare/N. Badon/S. White	

LOCATION SKETCH/COMMENTS:



Project: **Fort McClellan**

bgs= below ground surface
NA = Not applicable

Hole no.: **PR-123-MW03**

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: PR-123-MW03

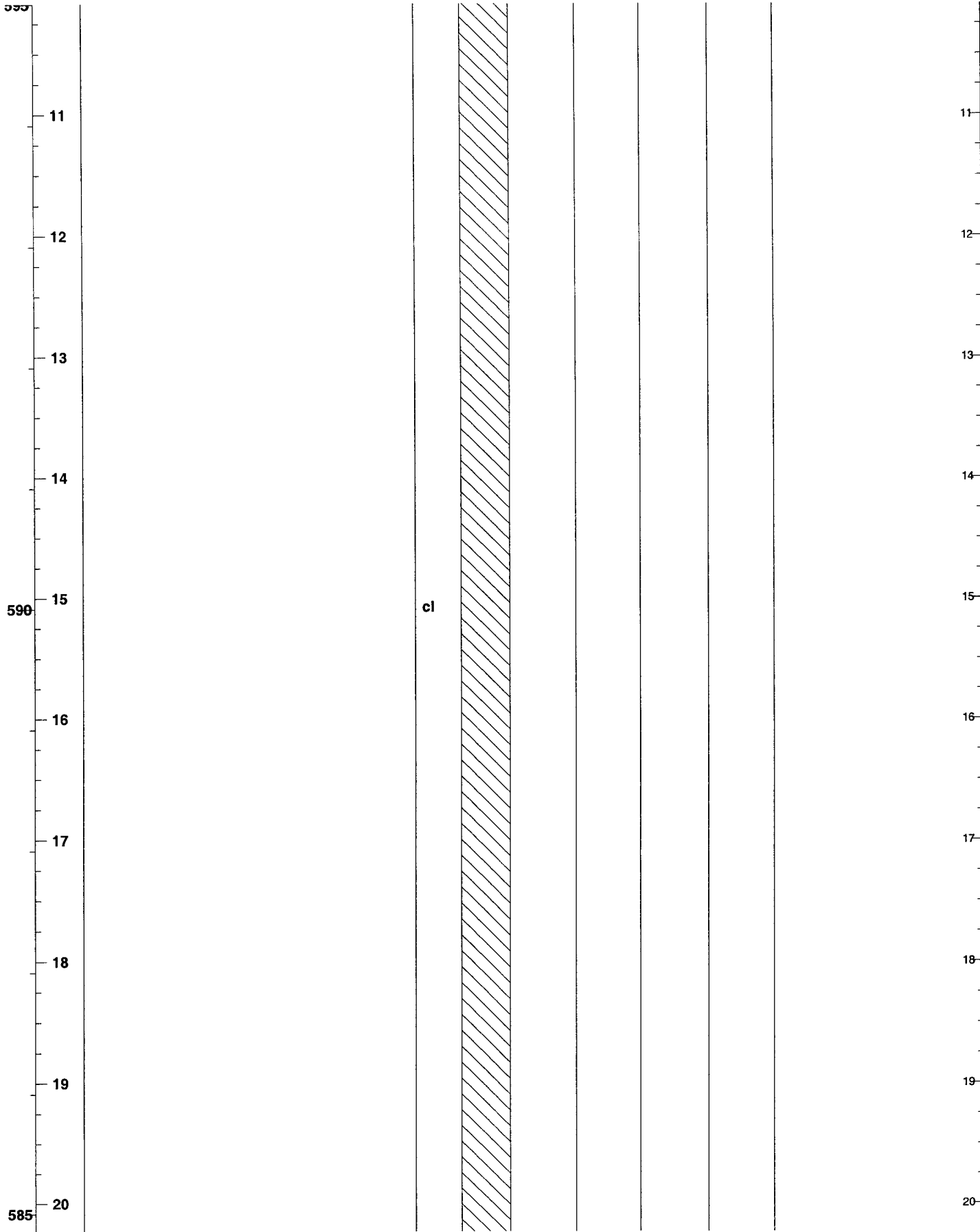
Project: Fort McClellan

Geologist: L. O'Hare/N. Badon/S. White

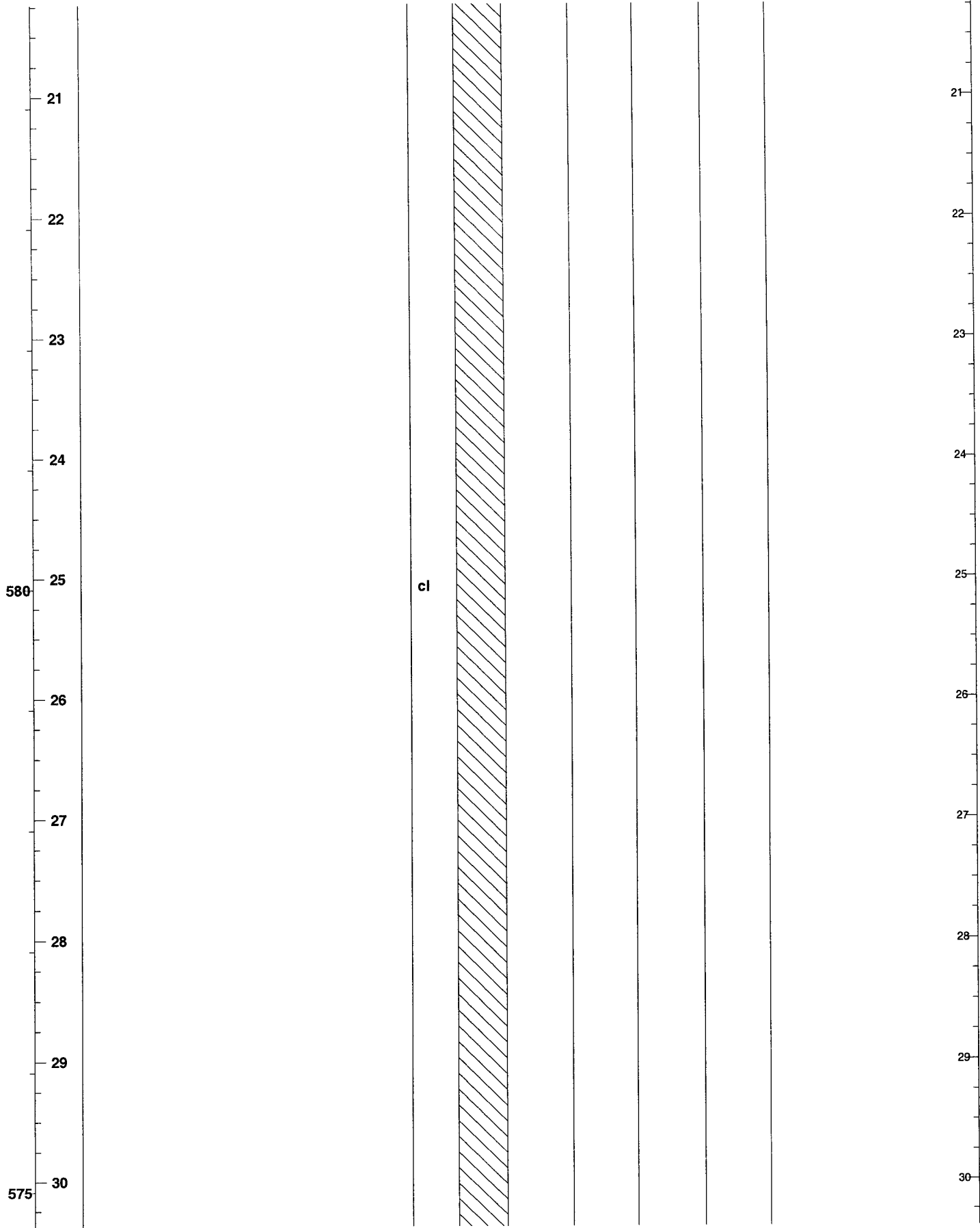
Sheet 2 of 9 sheets

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)
605	0	gm: Light brown fine to coarse subangular GRAVEL, some Silt, some coarse Sand, trace Clay, moist.	gm		Organic Vapor = 0.0ppm		HH0006		Rec 1.0'/1.0'
	1	gc: Light brown fine to coarse subangular GRAVEL, some medium to coarse Sand, little Clay, trace Silt, moist.	gc		Organic Vapor = 0.0ppm		HH0007		Rec 1.0'/1.0'
	2	cl: Reddish-brown, dry to moist CLAY, some chert, little Silt.	cl						Direct push refusal at 2' bgs
	2								Description from air rotary drill cuttings (2-77' bgs)
	3								
	4								
	5								
600	5								
	6								
	7								
	8								
	9								
	10								

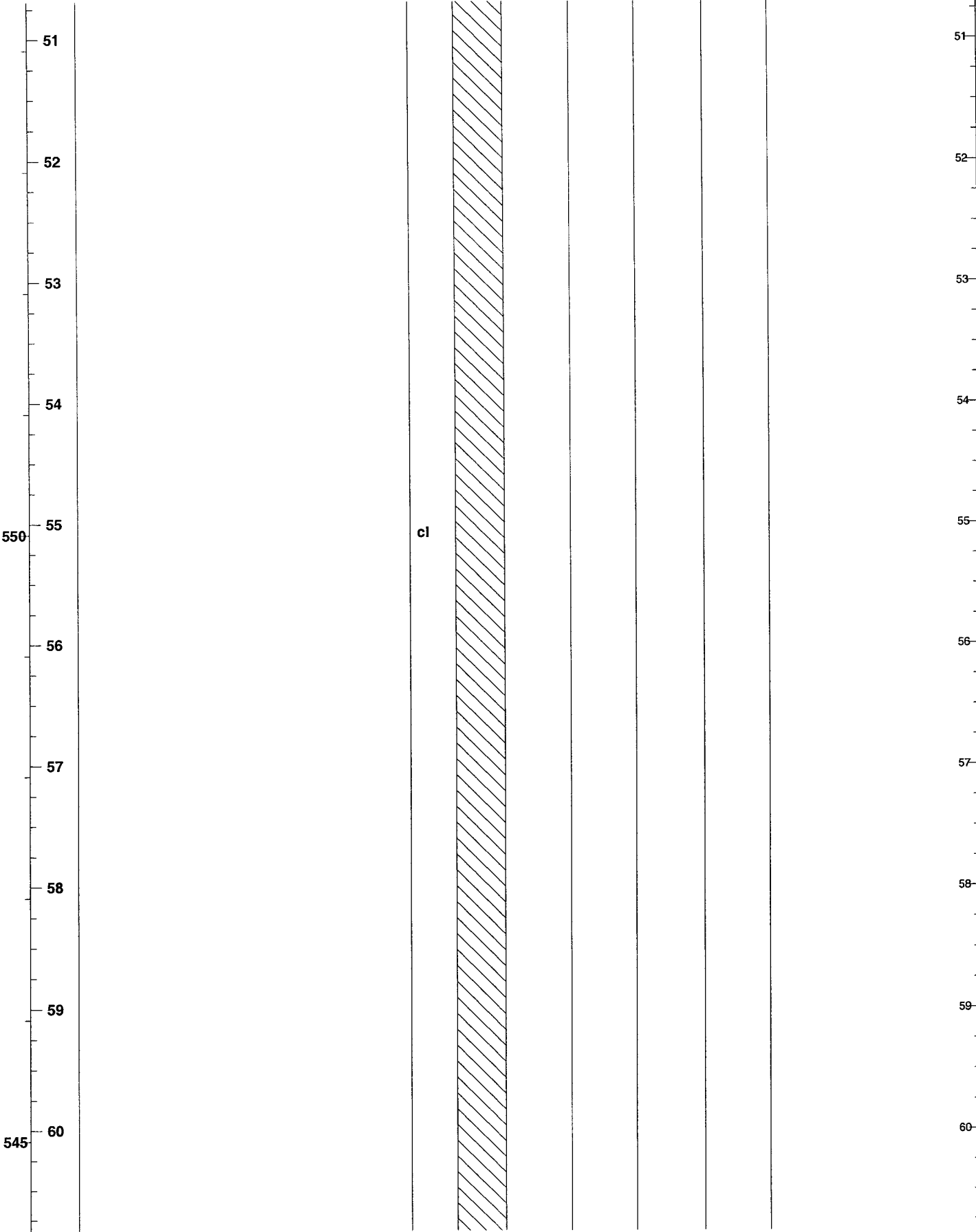
HTRW DRILLING LOG (Continuation Sheet)							HOLE NUMBER: PR-123-MW03		
Project: Fort McClellan				Geologist: L. O'Hare/N. Badon/S. White			Sheet 3 of 9 sheets		
Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow counts (g)	Remarks (h)



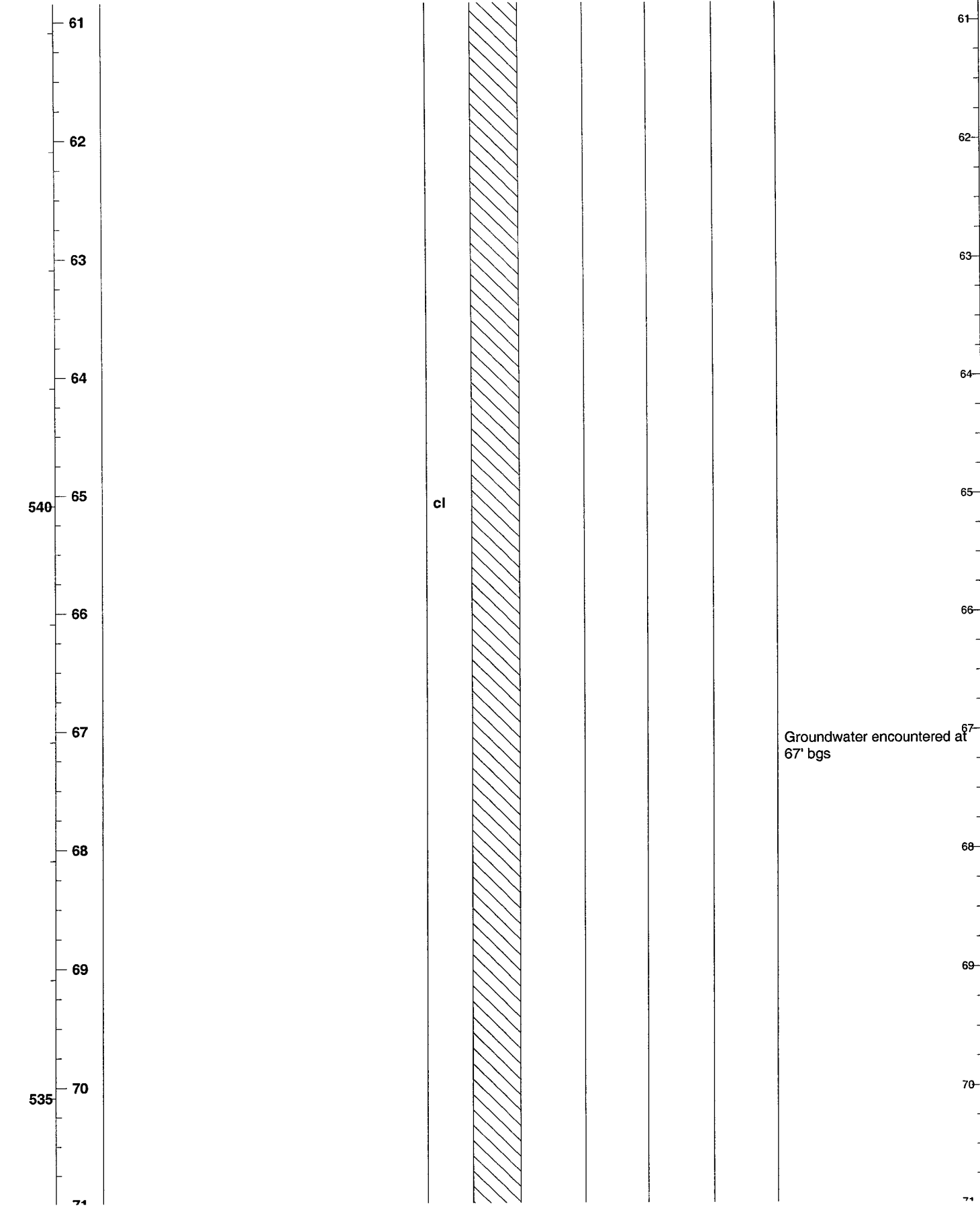
HTRW DRILLING LOG (Continuation Sheet)						HOLE NUMBER: PR-123-MW03			
Project: Fort McClellan			Geologist: L. O'Hare/N. Badon/S. White			Sheet 4 of 9 sheets			
Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow counts (g)	Remarks (h)



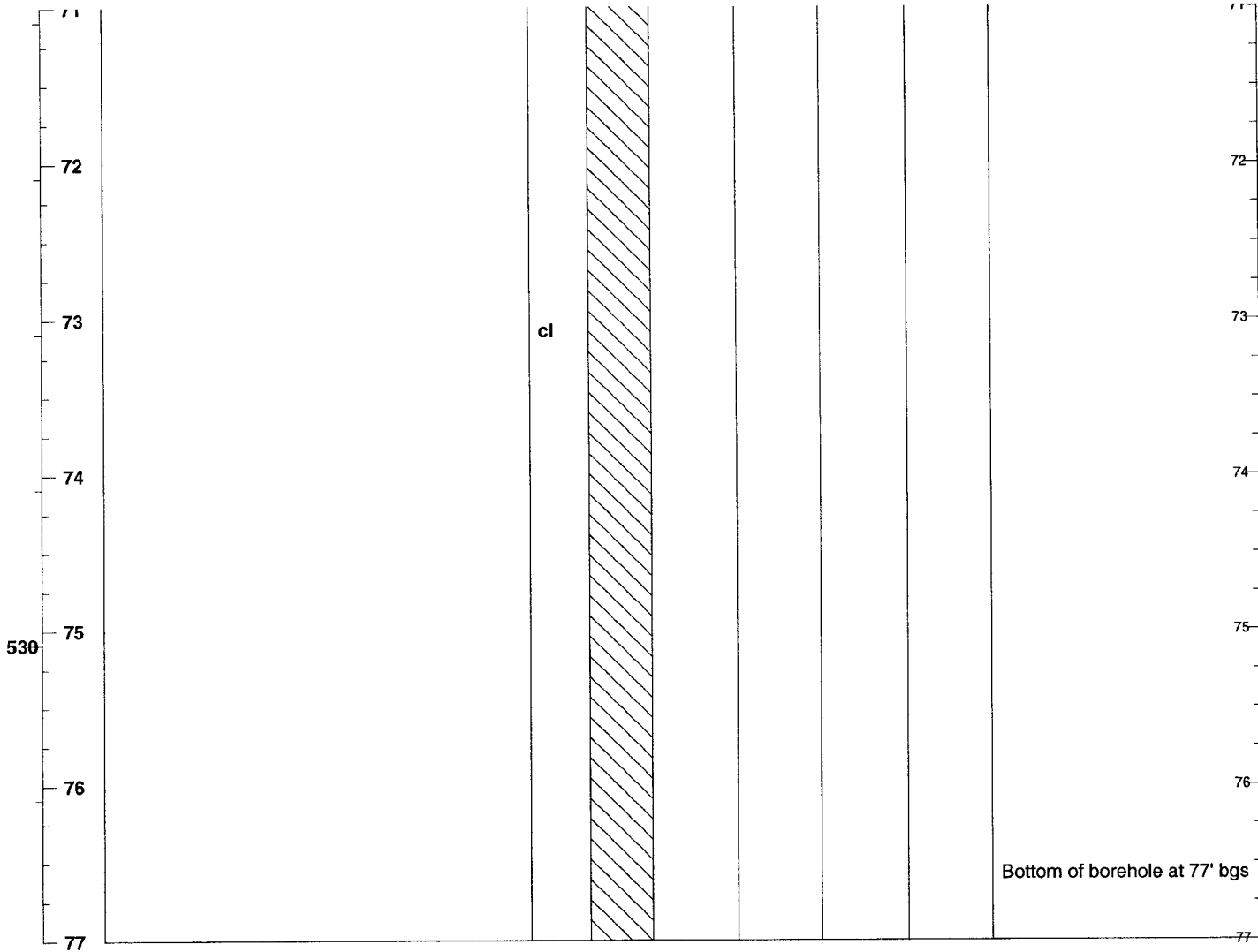
HTRW DRILLING LOG (Continuation Sheet)						HOLE NUMBER: PR-123-MW03			
Project: Fort McClellan			Geologist: L. O'Hare/N. Badon/S. White			Sheet 7 of 9 sheets			
Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow counts (g)	Remarks (h)



HTRW DRILLING LOG (Continuation Sheet)						HOLE NUMBER: PR-123-MW03			
Project: Fort McClellan			Geologist: L. O'Hare/N. Badon/S. White			Sheet 8 of 9 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)

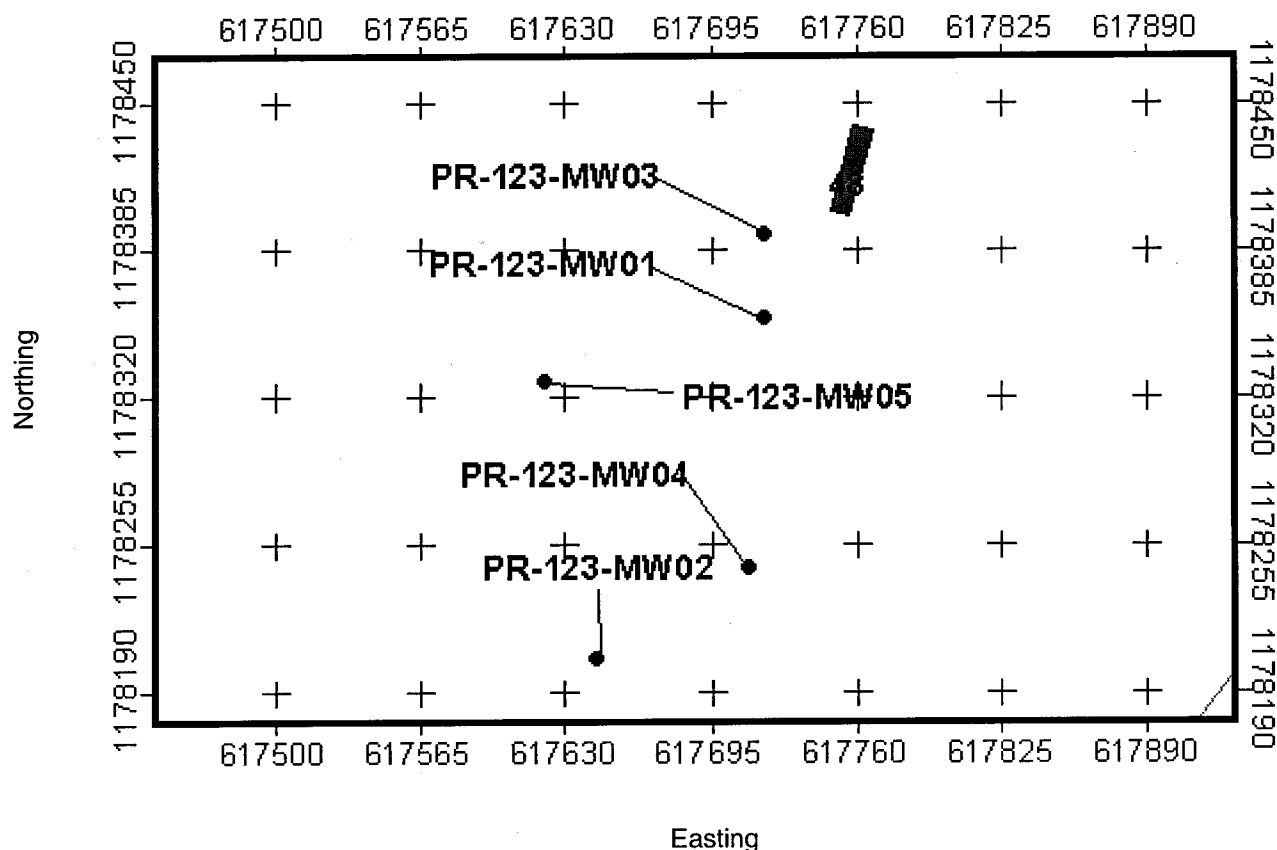


HTRW DRILLING LOG (Continuation Sheet)						HOLE NUMBER: PR-123-MW03			
Project: Fort McClellan			Geologist: L. O'Hare/N. Badon/S. White			Sheet 9 of 9 sheets			
Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow counts (g)	Remarks (h)



HTRW DRILLING LOG		District: Mobile USACE		HOLE NUMBER PR-123-MW04		
1. Company name: IT Corporation		2. Drill Subcontractor: ESN/Miller Drilling Company		Sheet 1 of 9 sheets		
3. Project: Fort McClellan			4. Location: Calhoun County, Alabama			
5. Name of driller: S. McDaniel/R. McNeil			6. Mfr. designation of drill: Geoprobe/Schramm T-450W			
7. Sizes and types of drilling and sampling equipment: Direct Push/Air Rotary DP - 2"x2" Acetate Liners AR - 6" Roller Bit			8. Hole location: Range 4A Fog Oil Storage Area, Pelham Rng., Parcel 123			
			9. Surface elevation (feet above mean sea level): 602.64			
			10. Date started: 03/26/01	11. Date completed: 05/08/01		
12. Overburden thickness (feet bgs): >78			15. Depth groundwater encountered (feet bgs): 68			
13. Depth drilled into rock (feet bgs): 0			16. Depth to water and elapsed time after drilling completed (feet bgs): NA			
14. Total depth of hole (feet bgs): 78			17. Other water level measurements (specify): NA			
18. Geotechnical samples:	Collected:	Disturbed:	Undisturbed:	19. Total no. of core boxes: NA		
20. Samples for chemical analysis:	VOC	Metals	Other (specify)	Other (specify)	Other (specify)	21. Total core recovery:
	X	X	SVOCs			NA
22. Disposition of hole:	Backfilled	Monitoring well	Other (specify)	Geologist:		
		X		L. O'Hare/N. Badon/S. White		

LOCATION SKETCH/COMMENTS:



Project: **Fort McClellan**

bgs= below ground surface
NA = Not applicable

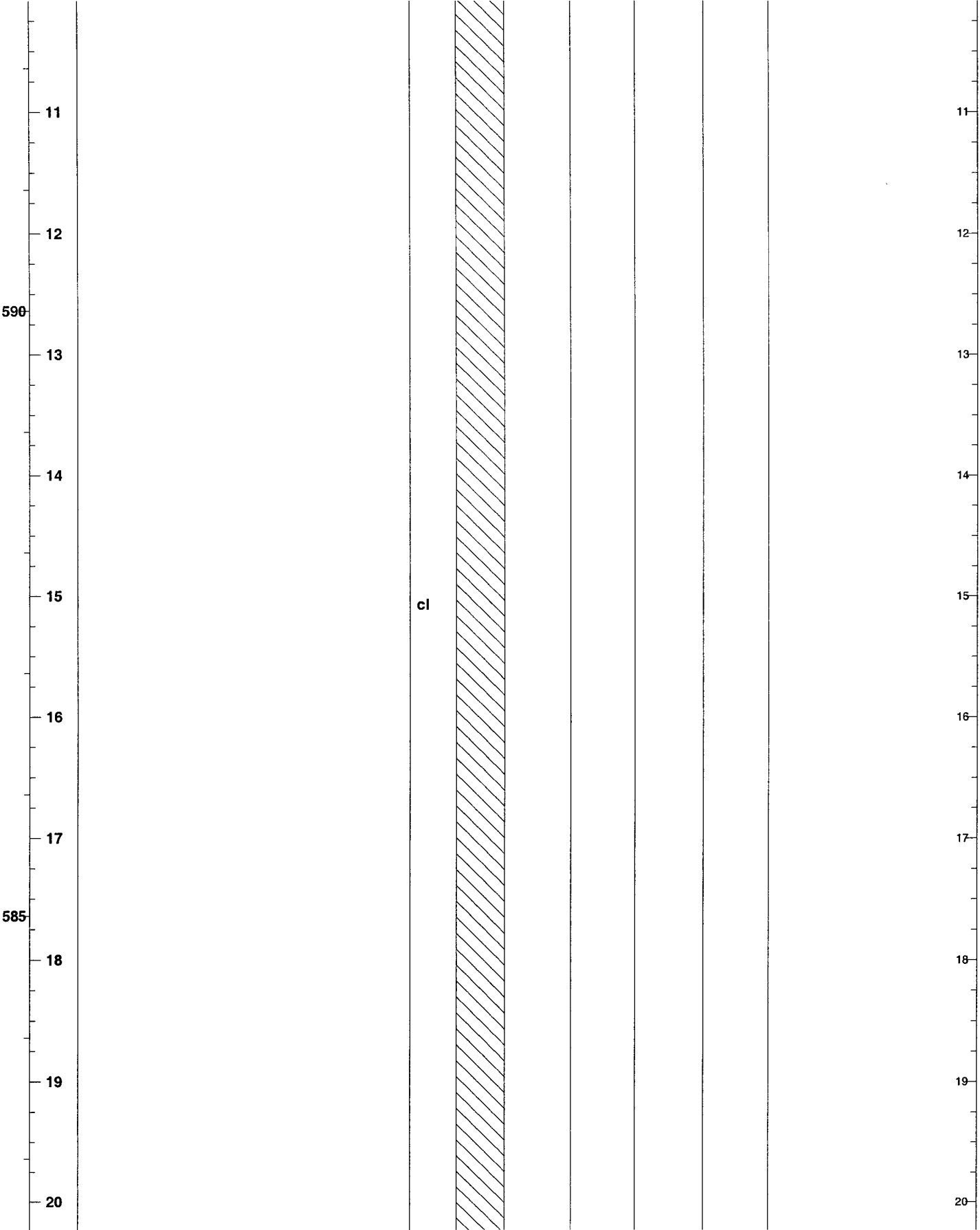
Hole no.: **PR-123-MW04**

HOLE NUMBER: PR-123-MW04

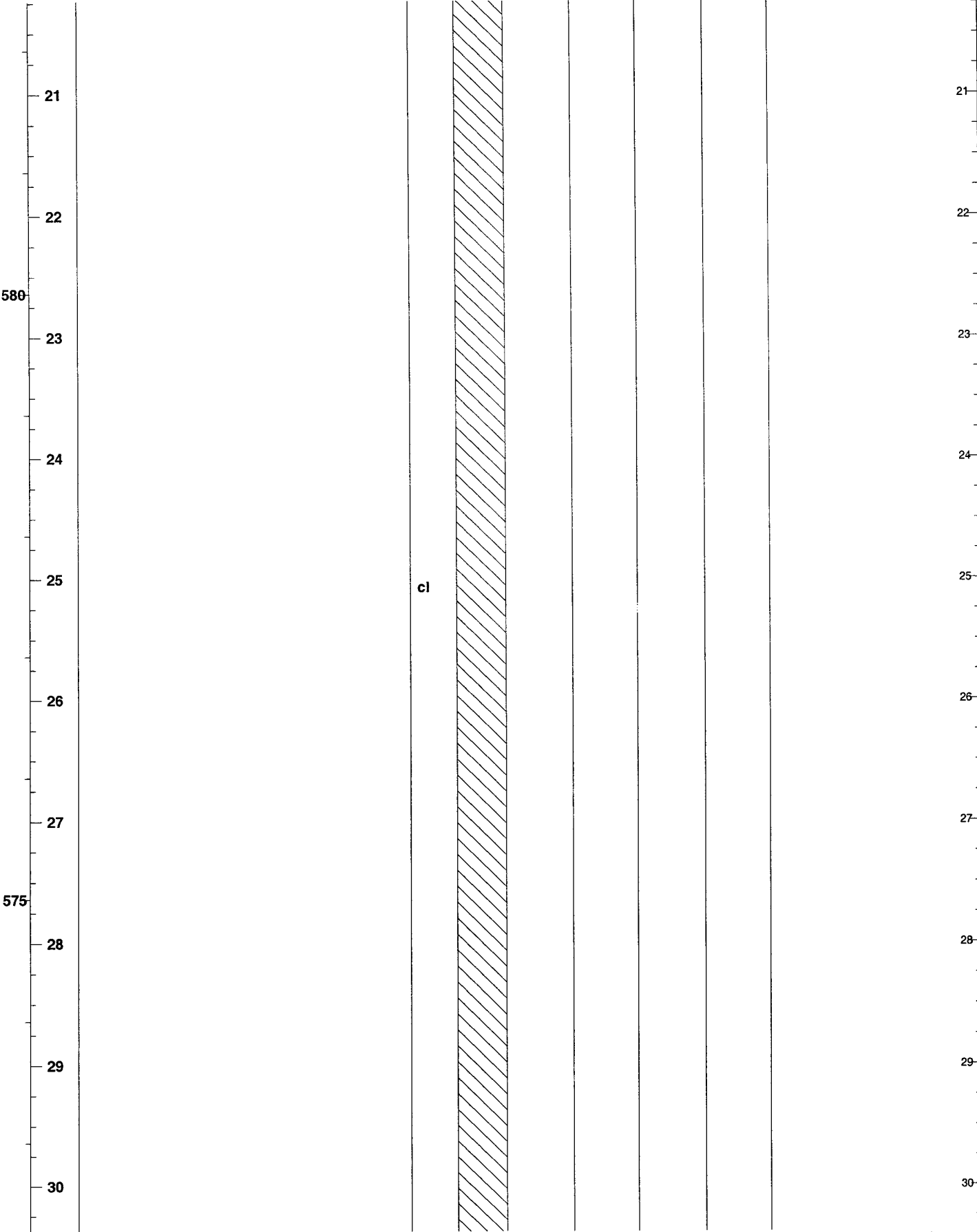
Sheet 2 of 9 sheets

595

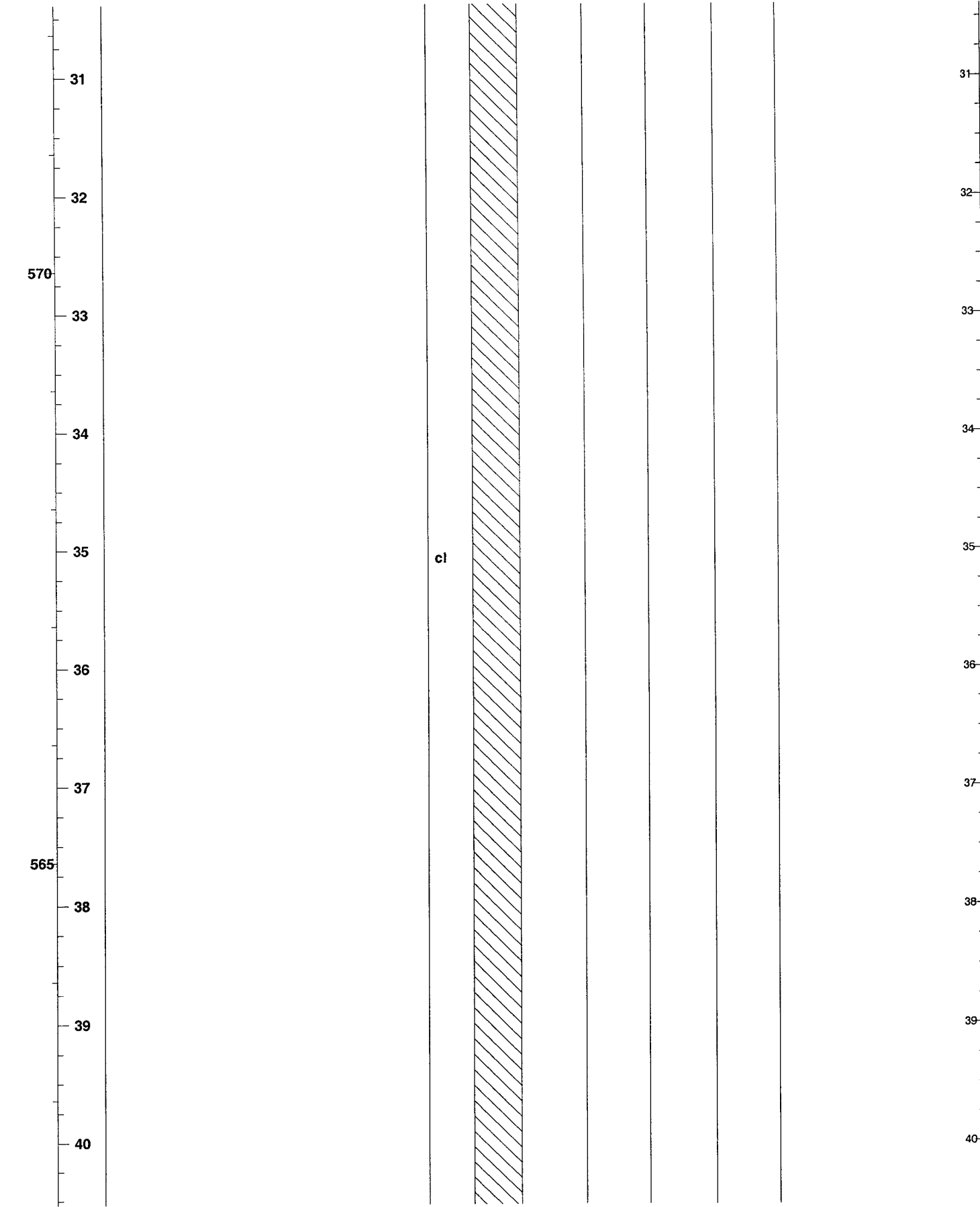
HTRW DRILLING LOG (Continuation Sheet)						HOLE NUMBER: PR-123-MW04			
Project: Fort McClellan			Geologist: L. O'Hare/N. Badon/S. White			Sheet 3 of 9 sheets			
Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow counts (g)	Remarks (h)



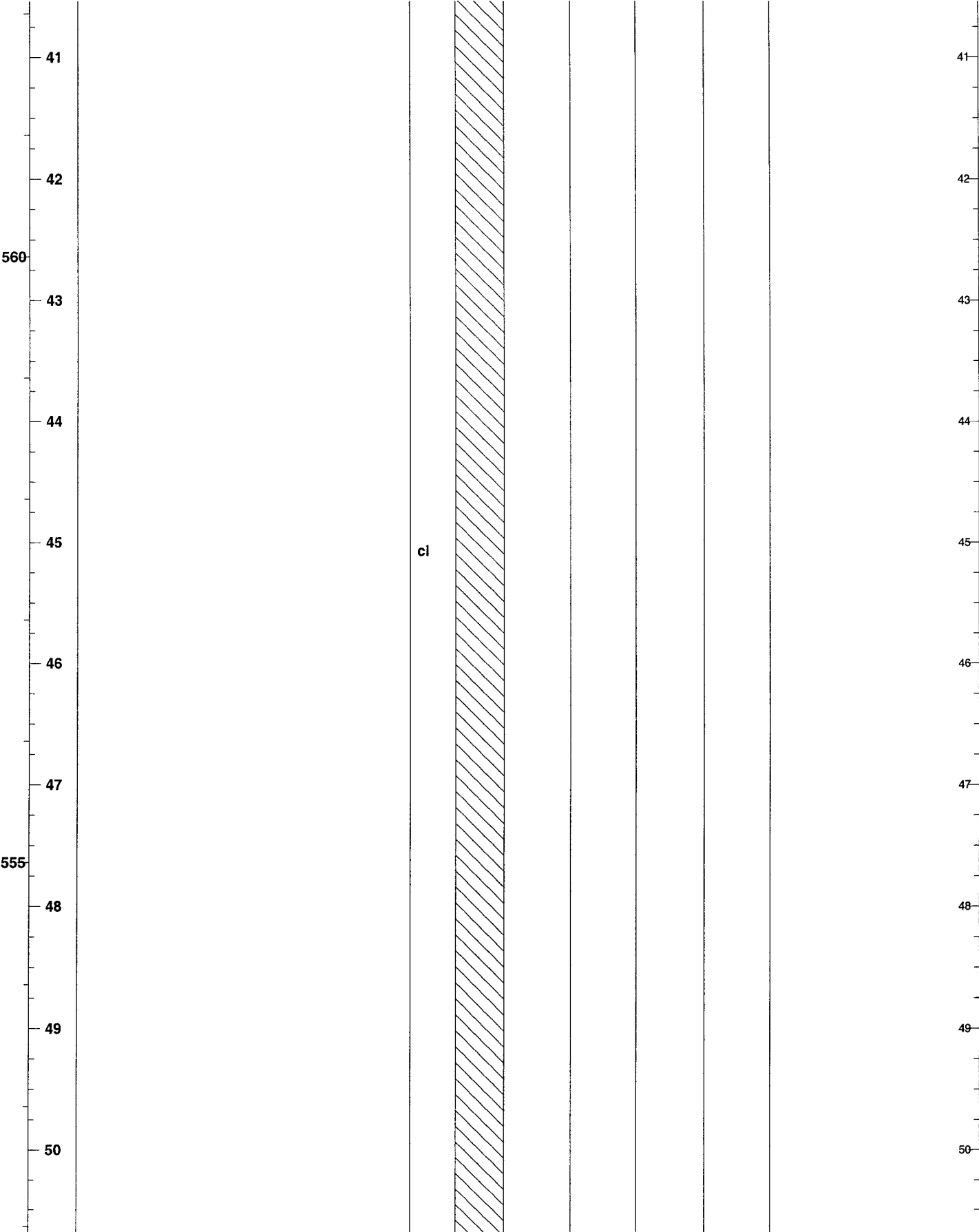
HTRW DRILLING LOG (Continuation Sheet)						HOLE NUMBER: PR-123-MW04			
Project: Fort McClellan			Geologist: L. O'Hare/N. Badon/S. White			Sheet 4 of 9 sheets			
Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow counts (g)	Remarks (h)



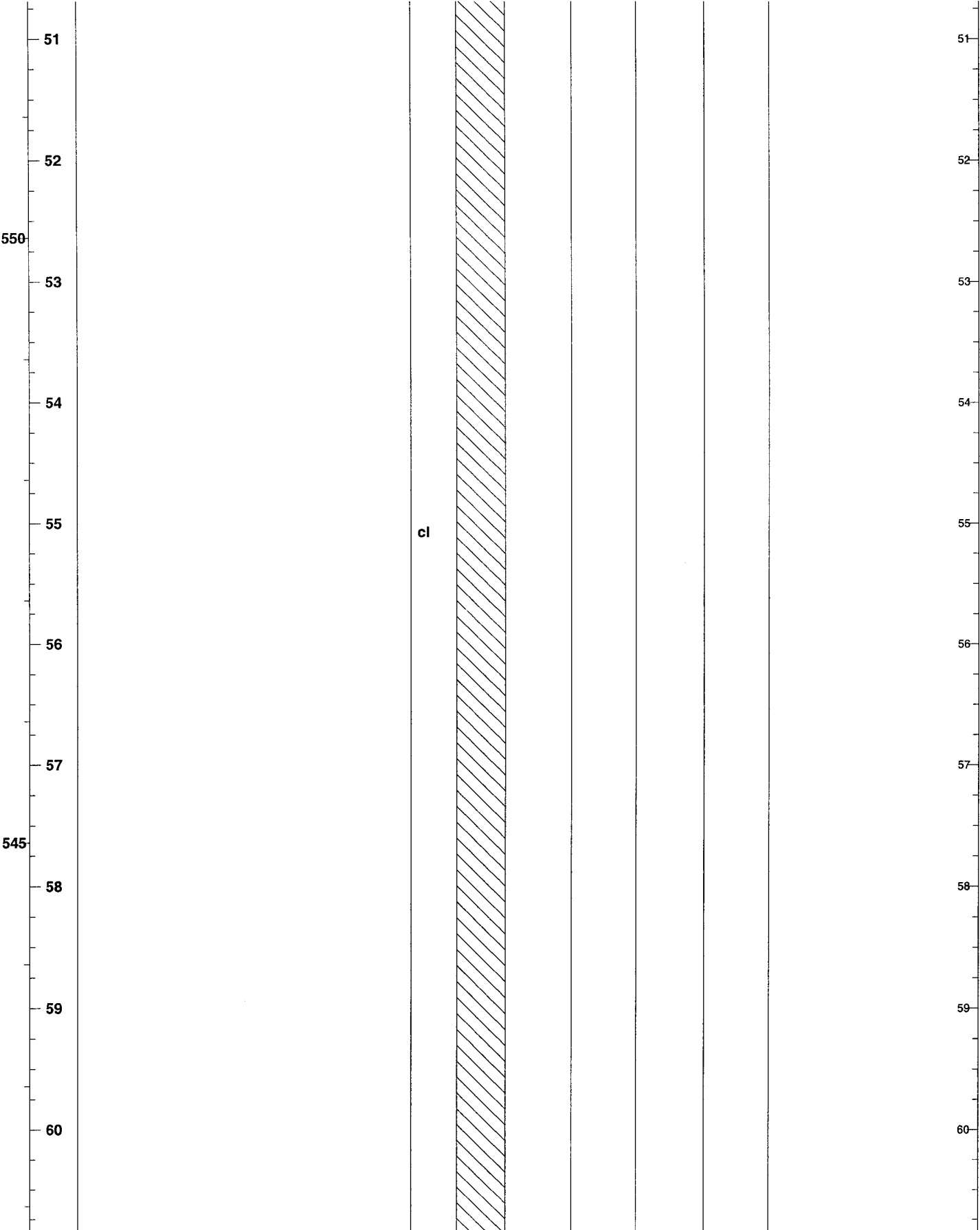
HTRW DRILLING LOG (Continuation Sheet)						HOLE NUMBER: PR-123-MW04			
Project: Fort McClellan			Geologist: L. O'Hare/N. Badon/S. White			Sheet 5 of 9 sheets			
Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow counts (g)	Remarks (h)



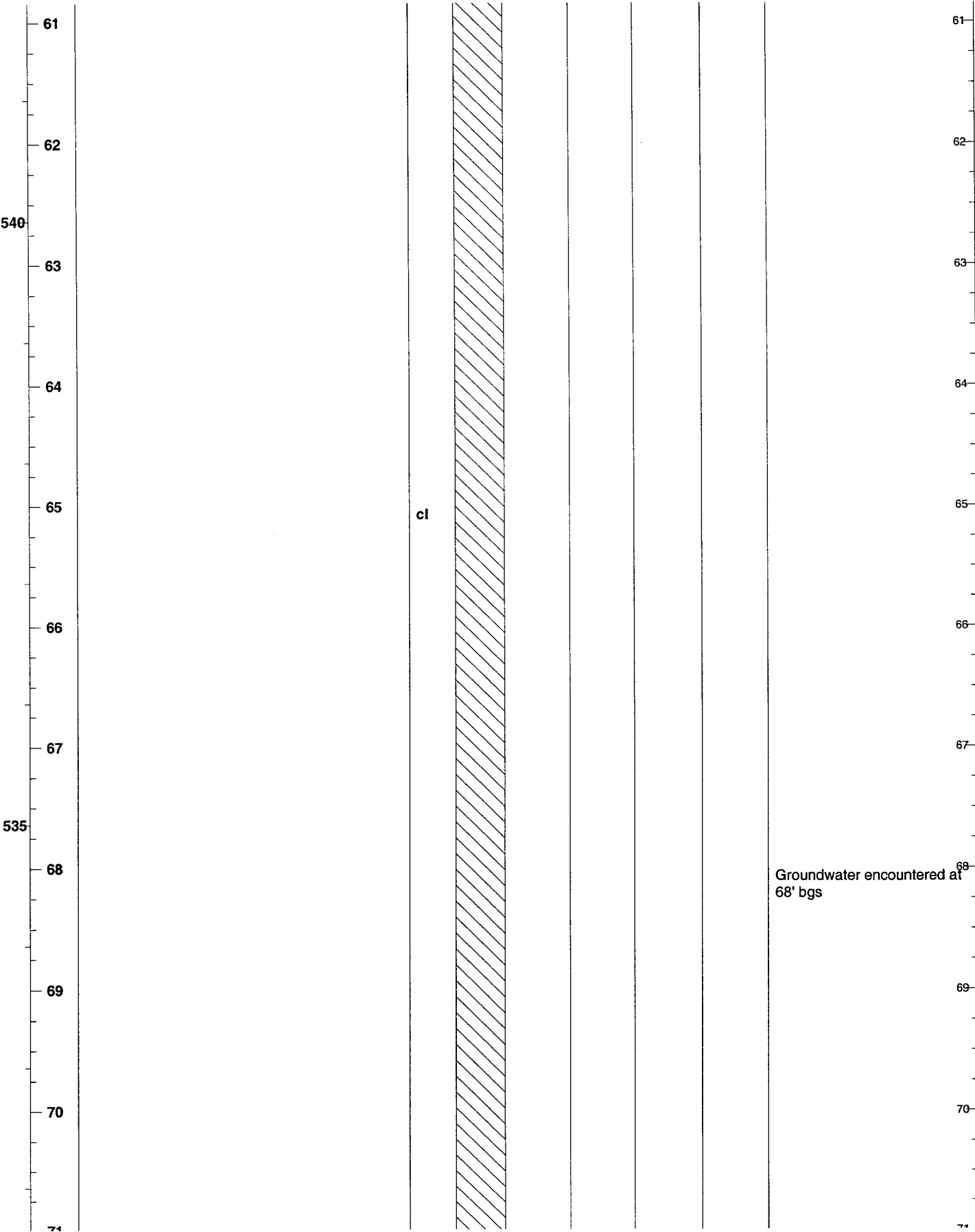
HTRW DRILLING LOG (Continuation Sheet)						HOLE NUMBER: PR-123-MW04			
Project: Fort McClellan			Geologist: L. O'Hare/N. Badon/S. White			Sheet 6 of 9 sheets			
Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow counts (g)	Remarks (h)



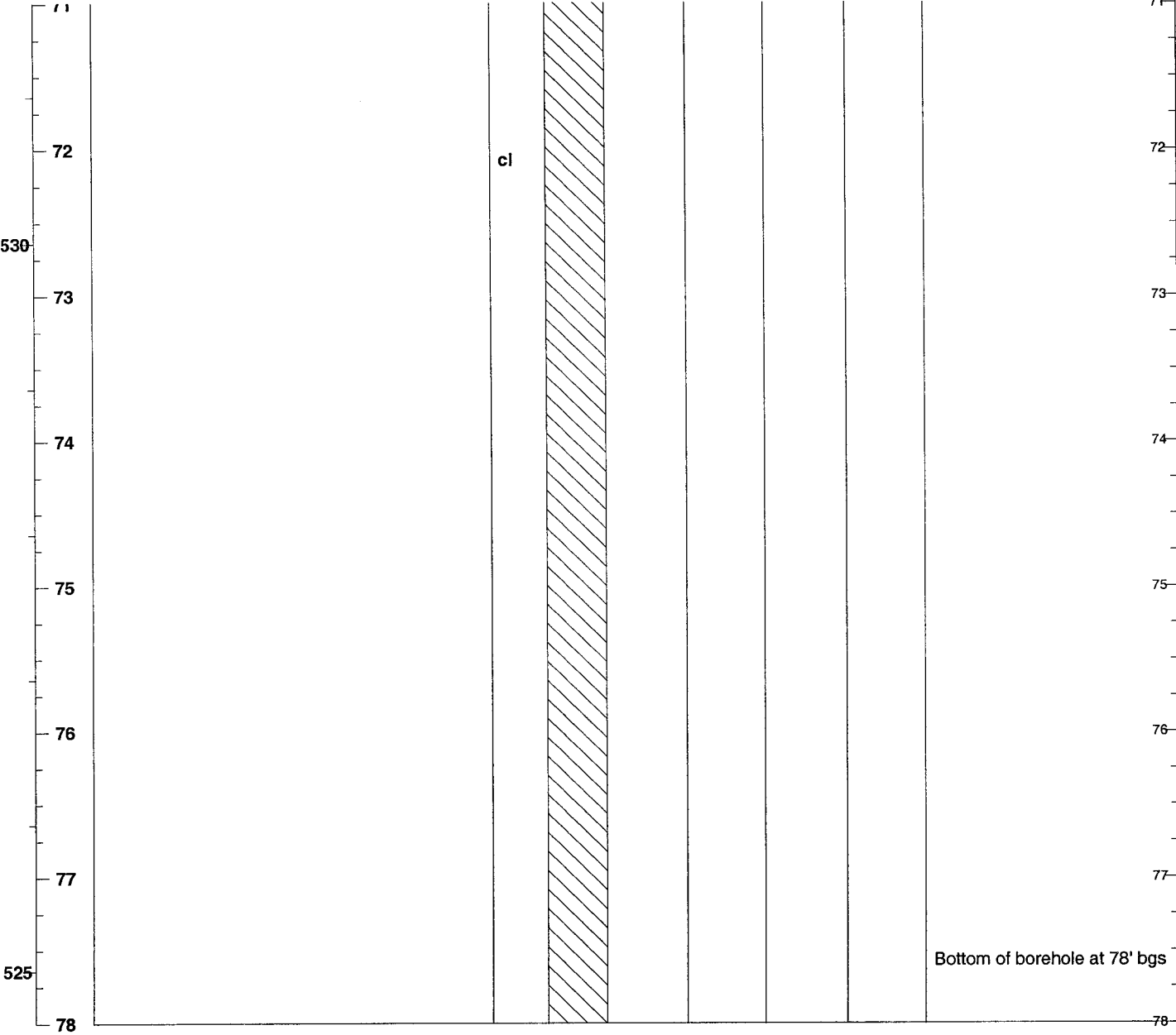
HTRW DRILLING LOG (Continuation Sheet)							HOLE NUMBER: PR-123-MW04		
Project: Fort McClellan				Geologist: L. O'Hare/N. Badon/S. White			Sheet 7 of 9 sheets		
Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow counts (g)	Remarks (h)



HTRW DRILLING LOG (Continuation Sheet)							HOLE NUMBER: PR-123-MW04		
Project: Fort McClellan				Geologist: L. O'Hare/N. Badon/S. White			Sheet 8 of 9 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)

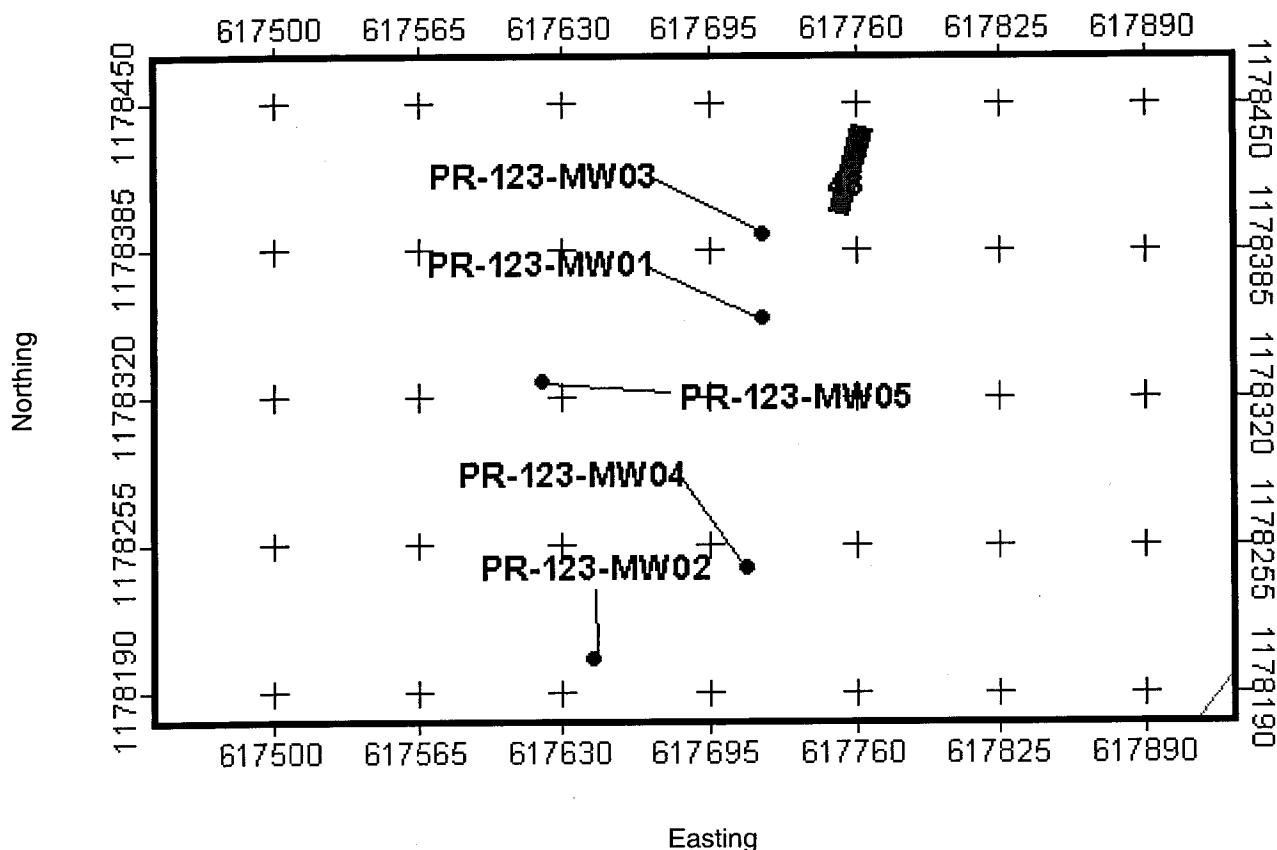


HTRW DRILLING LOG (Continuation Sheet)							HOLE NUMBER: PR-123-MW04		
Project: Fort McClellan				Geologist: L. O'Hare/N. Badon/S. White			Sheet 9 of 9 sheets		
Elev. (a)	Depth (b)	Description of Materials (c)	USCS / Lithology	Graphic	Field screening results (d)	Geotech sample or core box no. (e)	Analytical sample no. (f)	Blow counts (g)	Remarks (h)



HTRW DRILLING LOG		District: Mobile USACE		HOLE NUMBER PR-123-MW05	
1. Company name: IT Corporation		2. Drill Subcontractor: ESN/Miller Drilling Company		Sheet 1 of 9 sheets	
3. Project: Fort McClellan		4. Location: Calhoun County, Alabama			
5. Name of driller: S.McDaniel/R.McNeil/Don White		6. Mfr. designation of drill: Geoprobe/Schramm T-450W/CME 550X			
7. Sizes and types of drilling and sampling equipment: Direct Push, Hollow Stem Auger, Air Rotary DP - 2"x2" Acetate Liners; AR - 6" Roller Bit HSA - 5'x4.25" ID Augers, 2"x2" Steel Split Spoons		8. Hole location: Range 4A Fog Oil Storage Area, Pelham Rng, Parcel 123			
		9. Surface elevation (feet above mean sea level): 630.29			
		10. Date started: 03/26/01	11. Date completed: 05/08/01		
12. Overburden thickness (feet bgs): >78		15. Depth groundwater encountered (feet bgs): 65			
13. Depth drilled into rock (feet bgs): 0		16. Depth to water and elapsed time after drilling completed (feet bgs): NA			
14. Total depth of hole (feet bgs): 78		17. Other water level measurements (specify): NA			
18. Geotechnical samples:	Collected:	Disturbed:	Undisturbed:	19. Total no. of core boxes: NA	
20. Samples for chemical analysis:	VOC	Metals	Other (specify)	Other (specify)	21. Total core recovery:
	X	X	SVOCs		NA
22. Disposition of hole:	Backfilled	Monitoring well	Other (specify)	Geologist:	
		X		J.Dendy/S.White/L.O'Hare/N.Badon	

LOCATION SKETCH/COMMENTS:



Project: **Fort McClellan**

bgs= below ground surface
NA = Not applicable

Hole no.: **PR-123-MW05**

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: PR-123-MW05

Project: Fort McClellan

Geologist: J.Dendy/S.White/L.O'Hare/N.Badon

Sheet 2 of 9 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)
630	0	gm: Light brown fine to coarse subangular GRAVEL, some medium to coarse Sand, little Silt, dry.	gm		Organic Vapor = 0.0ppm				Rec 1.0'/1.0' (0-1' bgs)
	1	NA: No sample collected for lithologic description.	NA						Direct push refusal at 1' bgs
	2								
	3								
	4	cl: Light brown, medium soft CLAY, some fine to coarse, chert Gravel, some fine to coarse Sand.	cl					25 50/0.5'	Rec 0.9'/1.0' (4-4.9' bgs)
	5	NA: No recovery.	NA						
625		NA: No sample collected for lithologic description.	NA						
	6								
	7								
	8	gc: Light brown, medium soft CLAY and hard, white, coarse chert GRAVEL, some fine to coarse Sand.	gc					50/0.2'	Rec 0.2'/0.2' (8-8.2' bgs)
	9	NA: No sample collected for lithologic description.	NA						
	10								

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: PR-123-MW05

Project: Fort McClellan

Geologist: J.Dendy/S.White/L.O'Hare/N.Badon

Sheet 3 of 9 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)
620		NA: No sample collected for lithologic description.							
	11								
	12		NA						
	13	gc: Light brown, medium soft CLAY and hard, white, coarse, angular chert GRAVEL, some fine to coarse chert Sand.						10 12 13 15	Rec 2.0'/2.0' (13-15' bgs)
	14		gc						
	15	NA: No sample collected for lithologic description.							
615									
	16								
	17		NA						
	18	gc: Light brown, medium soft CLAY and hard, white, coarse, angular chert GRAVEL, some fine to coarse chert Sand.						6 20 11 13	Rec 2.0'/2.0' (18-20' bgs)
	19		gc						
	20	NA: No sample collected for lithologic description.							

HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: PR-123-MW05

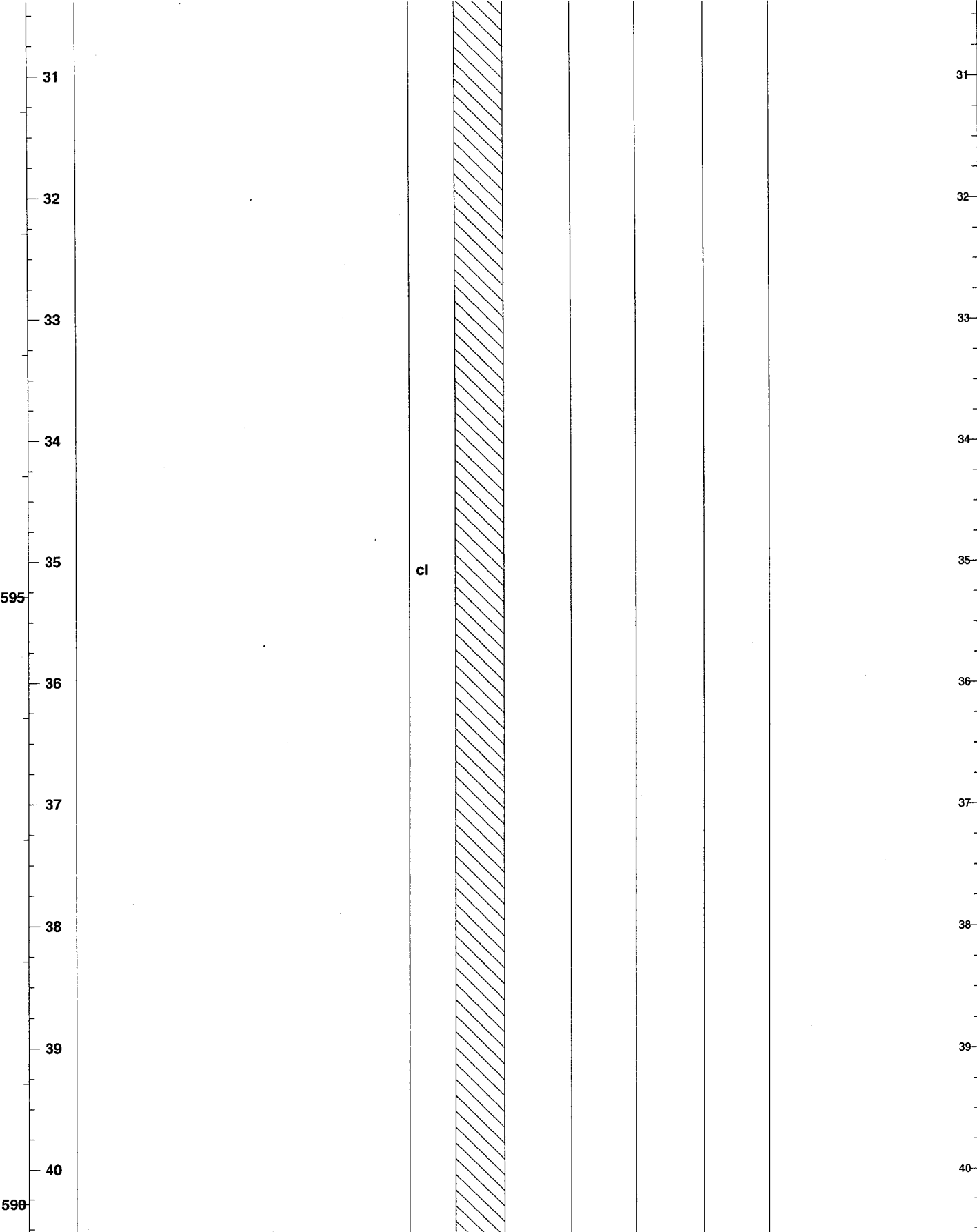
Project: Fort McClellan

Geologist: J.Dendy/S.White/L.O'Hare/N.Badon

Sheet 4 of 9 sheets

[illegible]

HTRW DRILLING LOG (Continuation Sheet)						HOLE NUMBER: PR-123-MW05			
Project: Fort McClellan			Geologist: J.Dendy/S.White/L.O'Hare/N.Badon			Sheet 5 of 9 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)



HTRW DRILLING LOG (Continuation Sheet)

HOLE NUMBER: PR-123-MW05

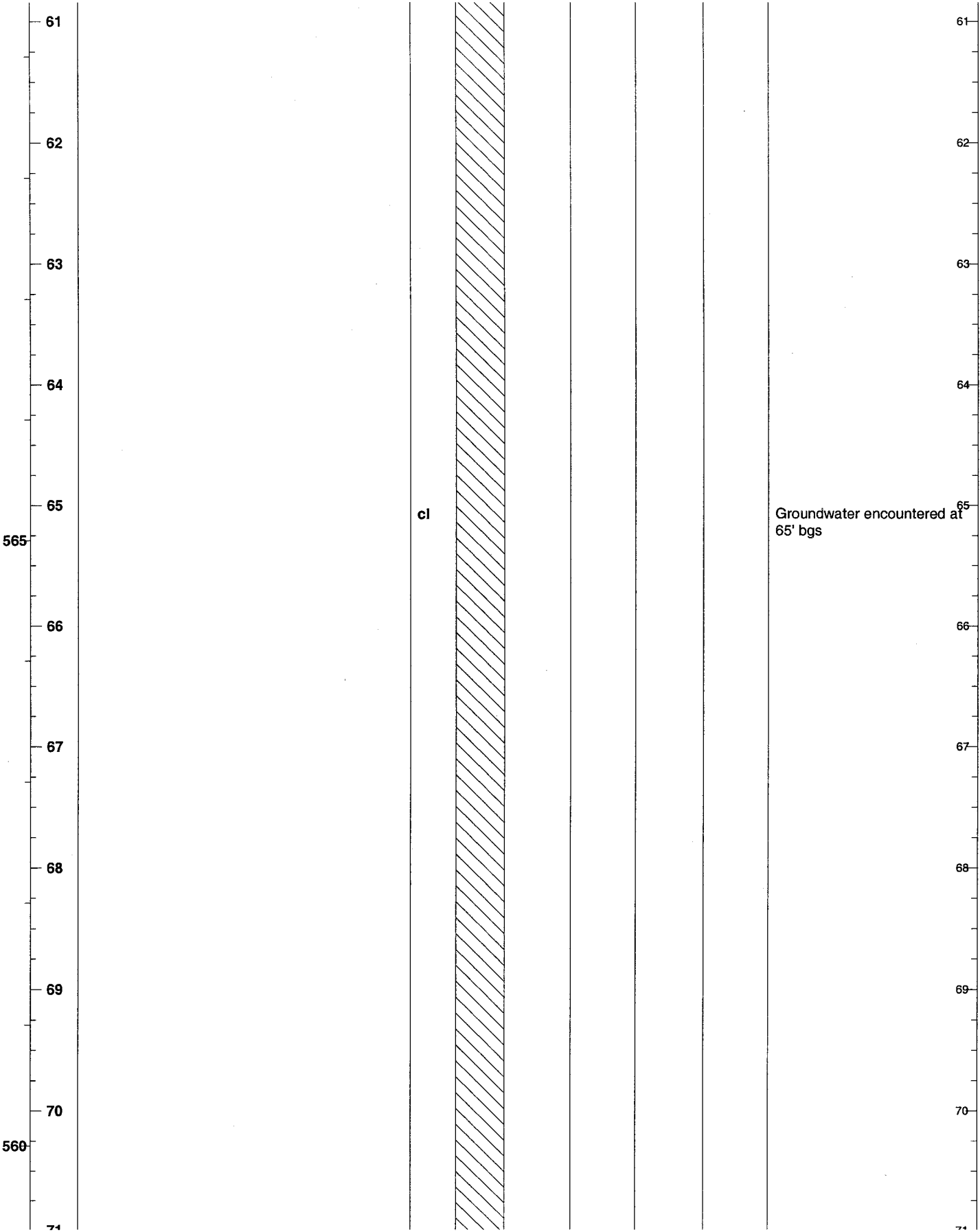
Project: Fort McClellan

Geologist: J.Dendy/S.White/L.O'Hare/N.Badon

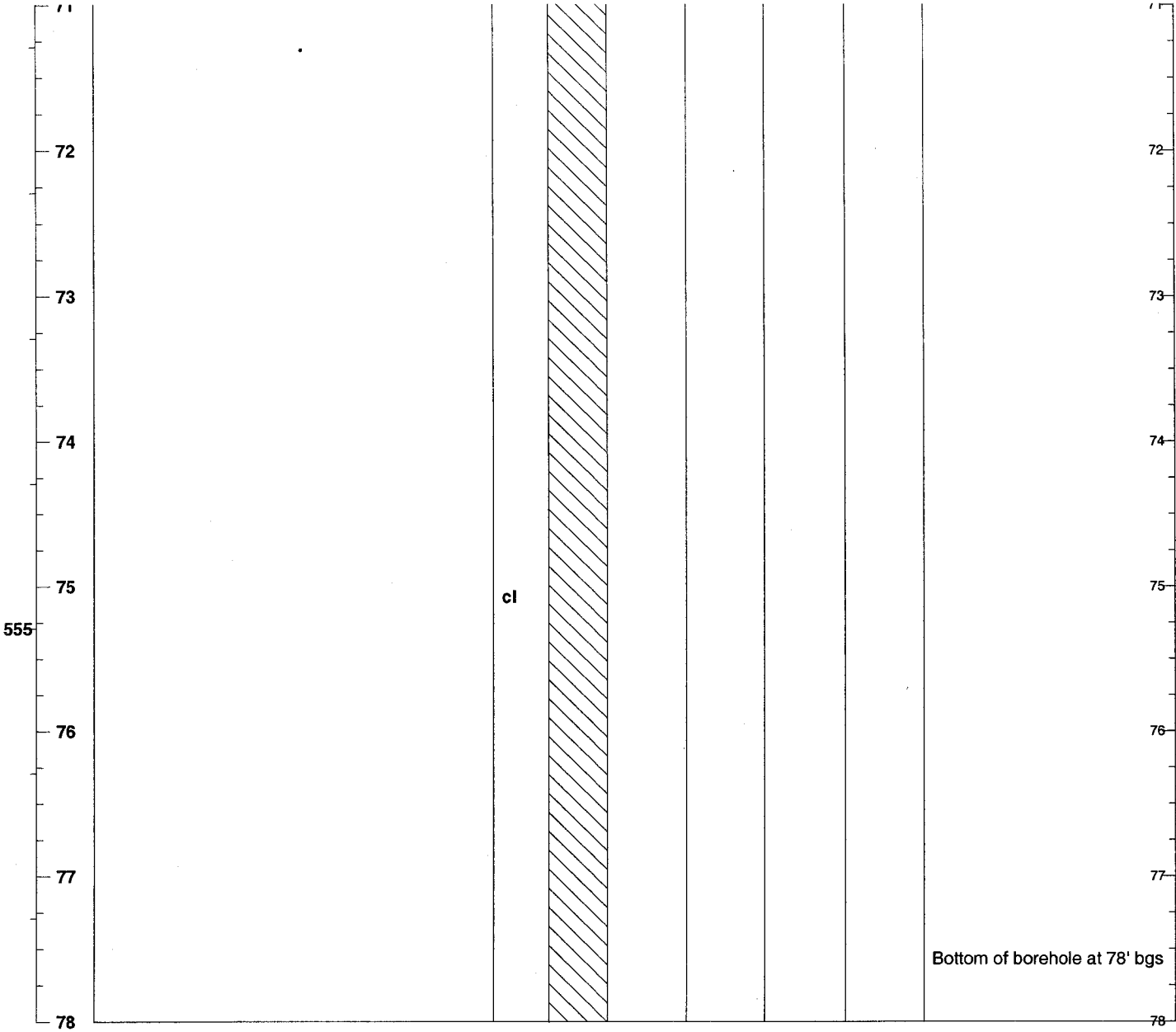
Sheet 7 of 9 sheets

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)
	51		cl						
	52								
	53								
	54								
575	55								
	56								
	57								
	58								
	59								
570	60								

HTRW DRILLING LOG (Continuation Sheet)						HOLE NUMBER: PR-123-MW05			
Project: Fort McClellan			Geologist: J.Dendy/S.White/L.O'Hare/N.Badon			Sheet 8 of 9 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)



HTRW DRILLING LOG (Continuation Sheet)						HOLE NUMBER: PR-123-MW05			
Project: Fort McClellan			Geologist: J.Dendy/S.White/L.O'Hare/N.Badon			Sheet 9 of 9 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)



WELL CONSTRUCTION LOGS

MONITORING WELL INSTALLATION DETAIL

PROJECT: Fort McClellan, SAD TERC

LOCATION: Anniston, AL

CLIENT: USACE Mobile District

CONTRACTOR: Miller Drilling Company

DRILLER: Red McNiel

IT FIELD REPRESENTATIVE: S. White

WELL NO: PR-123-MW01

DRILLING METHOD:
Air Rotary

INSTALLATION DATE: 09-MAY-01

NORTHING: 1178352.86

EASTING: 617718.11

HORIZONTAL SURVEY DATUM: NAD83

VERTICAL SURVEY DATUM: NGVD88

JOB NO: 774645

GROUND SURFACE ELEVATION* 628.51

TOP of WELL CASING or RISER PIPE

EL* 628.26 STICKUP N/A

SURFACE SEAL

TYPE of SURFACE SEAL MINIMUM THICKNESS
Concrete 4 inches

ANNULAR SPACE SEAL TYPE

Grout

APPROXIMATE DIAMETER of
BOREHOLE (inches) 6

CASING

TYPE of RISER MATERIAL
(Flush Threaded)

INSIDE DIAMETER
of RISER (inches)

PVC SCH 40

2

TOP OF SEAL

SEAL
MATERIAL

SEAL
START DEPTH

Bentonite

44.3

SCREEN

TYPE of
SCREEN MATERIAL

SLOT SIZE
(inches)

INSIDE DIAMETER
(inches)

PVC SCH 40

0.010

2

FILTER PACK

TYPE of SAND PACK
AROUND SCREEN

TOP OF
SAND PACK

Sand No 1

48.5

TOP OF SCREENED INTERVAL

EL* 573.35

DEPTH 55.16

BOTTOM of SCREENED INTERVAL

EL* 553.35

DEPTH 75.16

BOTTOM of SUMP and WELL

EL* 553.01

DEPTH 75.5

BOTTOM of BOREHOLE

EL* 551.51

DEPTH 77



*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 Company

DRILLER: Red McNiel

IT FIELD REPRESENTATIVE: S. White

WELL NO: PR-123-MW02

DRILLING METHOD:
Air Rotary

INSTALLATION DATE: 08-MAY-01

NORTHING: 1178203.6

EASTING: 617643.7

HORIZONTAL SURVEY DATUM: NAD83

VERTICAL SURVEY DATUM: NGVD88

JOB NO: 774645

GROUND SURFACE ELEVATION* 628.25

TOP of WELL CASING or RISER PIPE

EL* 628.01 STICKUP N/A

SURFACE SEAL

TYPE of SURFACE SEAL MINIMUM THICKNESS
Concrete 4 inches

ANNULAR SPACE SEAL TYPE

Grout

APPROXIMATE DIAMETER of
BOREHOLE (inches) 6

CASING

TYPE of RISER MATERIAL
(Flush Threaded)

INSIDE DIAMETER
of RISER (inches)

PVC SCH 40

2

TOP OF SEAL

SEAL
MATERIAL

SEAL
START DEPTH

Bentonite

46

SCREEN

TYPE of
SCREEN MATERIAL

SLOT SIZE
(inches)

INSIDE DIAMETER
(inches)

PVC SCH 40

0.010

2

FILTER PACK

TYPE of SAND PACK
AROUND SCREEN

TOP OF
SAND PACK

Sand No 1

51

TOP OF SCREENED INTERVAL

EL* 566.79

DEPTH

61.46

BOTTOM of SCREENED INTERVAL

EL* 546.79

DEPTH

81.46

BOTTOM of SUMP and WELL

EL* 546.45

DEPTH

81.8

BOTTOM of BOREHOLE

EL* 546.25

DEPTH

82



*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 Company

DRILLER: Red McNiel

IT FIELD REPRESENTATIVE: S. White

WELL NO: PR-123-MW03

DRILLING METHOD:
Air Rotary

INSTALLATION DATE: 10-MAY-01

NORTHING: 1178390.7

EASTING: 617717.73

HORIZONTAL SURVEY DATUM: NAD83

VERTICAL SURVEY DATUM: NGVD88

JOB NO: 774645

GROUND SURFACE ELEVATION* 627.54

TOP of WELL CASING or RISER PIPE

EL* 627.35 STICKUP N/A

SURFACE SEAL

TYPE of SURFACE SEAL MINIMUM THICKNESS
Concrete 4 inches

ANNULAR SPACE SEAL TYPE

Grout

APPROXIMATE DIAMETER of
BOREHOLE (inches) 6

CASING

TYPE of RISER MATERIAL
(Flush Threaded)

INSIDE DIAMETER
of RISER (inches)

PVC SCH 40

2

TOP OF SEAL

SEAL
MATERIAL

SEAL
START DEPTH

Bentonite

46.8

SCREEN

TYPE of
SCREEN MATERIAL

SLOT SIZE
(inches)

INSIDE DIAMETER
(inches)

PVC SCH 40

0.010

2

FILTER PACK

TYPE of SAND PACK
AROUND SCREEN

TOP OF
SAND PACK

Sand No 1

50.5

TOP OF SCREENED INTERVAL

EL* 571.48

DEPTH 56.06

BOTTOM of SCREENED INTERVAL

EL* 551.48

DEPTH 76.06

BOTTOM of SUMP and WELL

EL* 551.14

DEPTH 76.4

BOTTOM of BOREHOLE

EL* 550.54

DEPTH 77



*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 Company
DRILLER: Red McNiel
IT FIELD REPRESENTATIVE: S. White

WELL NO: PR-123-MW04
DRILLING METHOD: Air Rotary
INSTALLATION DATE: 08-MAY-01
NORTHING: 1178243.99
EASTING: 617711.31
HORIZONTAL SURVEY DATUM: NAD83
VERTICAL SURVEY DATUM: NGVD88
JOB NO: 774645

GROUND SURFACE ELEVATION* 625.1

TOP of WELL CASING or RISER PIPE
EL* 624.73 **STICKUP** N/A

SURFACE SEAL

TYPE of SURFACE SEAL Concrete **MINIMUM THICKNESS** 4 inches

ANNULAR SPACE SEAL TYPE

Grout

APPROXIMATE DIAMETER of BOREHOLE (inches) 6

CASING

TYPE of RISER MATERIAL (Flush Threaded) PVC SCH 40 **INSIDE DIAMETER of RISER (inches)** 2

TOP OF SEAL

SEAL MATERIAL Bentonite **SEAL START DEPTH** 47.2

SCREEN

TYPE of SCREEN MATERIAL PVC SCH 40 **SLOT SIZE (inches)** 0.010 **INSIDE DIAMETER (inches)** 2

FILTER PACK

TYPE of SAND PACK AROUND SCREEN Sand No 1 **TOP OF SAND PACK** 51

TOP OF SCREENED INTERVAL

EL* 567.74 **DEPTH** 57.36

BOTTOM of SCREENED INTERVAL

EL* 547.74 **DEPTH** 77.36

BOTTOM of SUMP and WELL

EL* 547.4 **DEPTH** 77.7

BOTTOM of BOREHOLE

EL* 547.1 **DEPTH** 78



*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 Company

DRILLER: Red McNiel

IT FIELD REPRESENTATIVE: S. White

WELL NO: PR-123-MW05

DRILLING METHOD:
Air Rotary

INSTALLATION DATE: 08-MAY-01

NORTHING: 1178325.09

EASTING: 617621.08

HORIZONTAL SURVEY DATUM: NAD83

VERTICAL SURVEY DATUM: NGVD88

JOB NO: 774645

GROUND SURFACE ELEVATION* 630.29

TOP of WELL CASING or RISER PIPE

EL* 630.06 **STICKUP** N/A

SURFACE SEAL

TYPE of SURFACE SEAL **MINIMUM THICKNESS**
Concrete 4 inches

ANNULAR SPACE SEAL TYPE

Grout

APPROXIMATE DIAMETER of
BOREHOLE (inches) 6

CASING

TYPE of RISER MATERIAL
(Flush Threaded)

INSIDE DIAMETER
of RISER (inches)

PVC SCH 40

2

TOP OF SEAL

SEAL
MATERIAL

SEAL
START DEPTH

Bentonite

36.4

SCREEN

TYPE of
SCREEN MATERIAL

SLOT SIZE
(inches)

INSIDE DIAMETER
(inches)

PVC SCH 40

0.010

2

FILTER PACK

TYPE of SAND PACK
AROUND SCREEN

TOP OF
SAND PACK

Sand No 1

41.0

TOP OF SCREENED INTERVAL

EL* 574.93

DEPTH 55.36

BOTTOM of SCREENED INTERVAL

EL* 554.93

DEPTH 75.36

BOTTOM of SUMP and WELL

EL* 554.59

DEPTH 75.7

BOTTOM of BOREHOLE

EL* 552.29

DEPTH 78



*All elevations (EL) are referenced to MSL.
All depths and heights are given in feet and
are referenced to the ground surface.

