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VOLUME III OF IV
APPENDICES E (CONTINUED) AND F

Prepared for:

Comprehensive Long-Term
Environmental Action Navy (Clean)
Naval Air Station
Pensacola, Florida

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October 10, 1997

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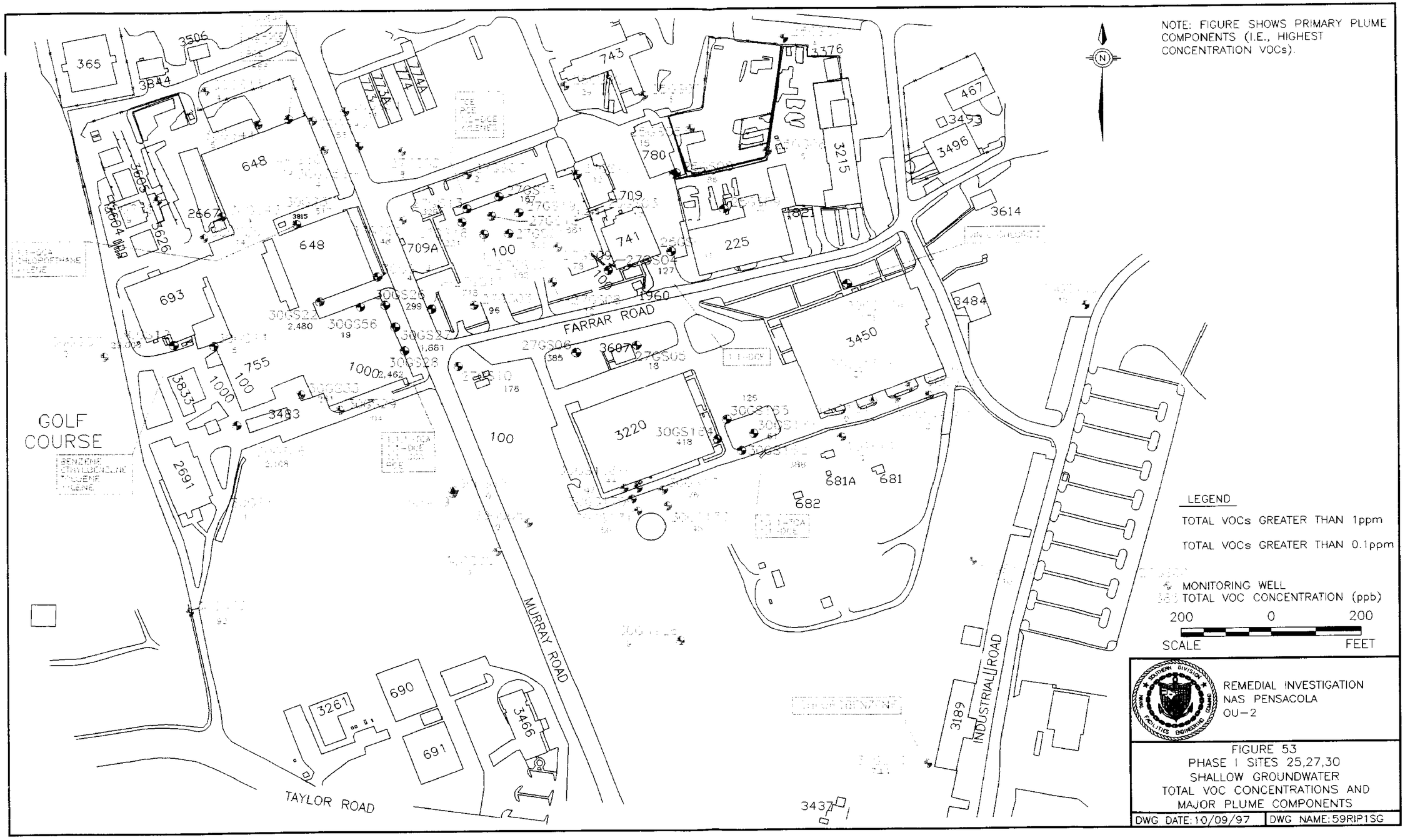


LEGEND

TOTAL VOCs GREATER THAN 1ppm

TOTAL VOCs GREATER THAN 0.1ppm

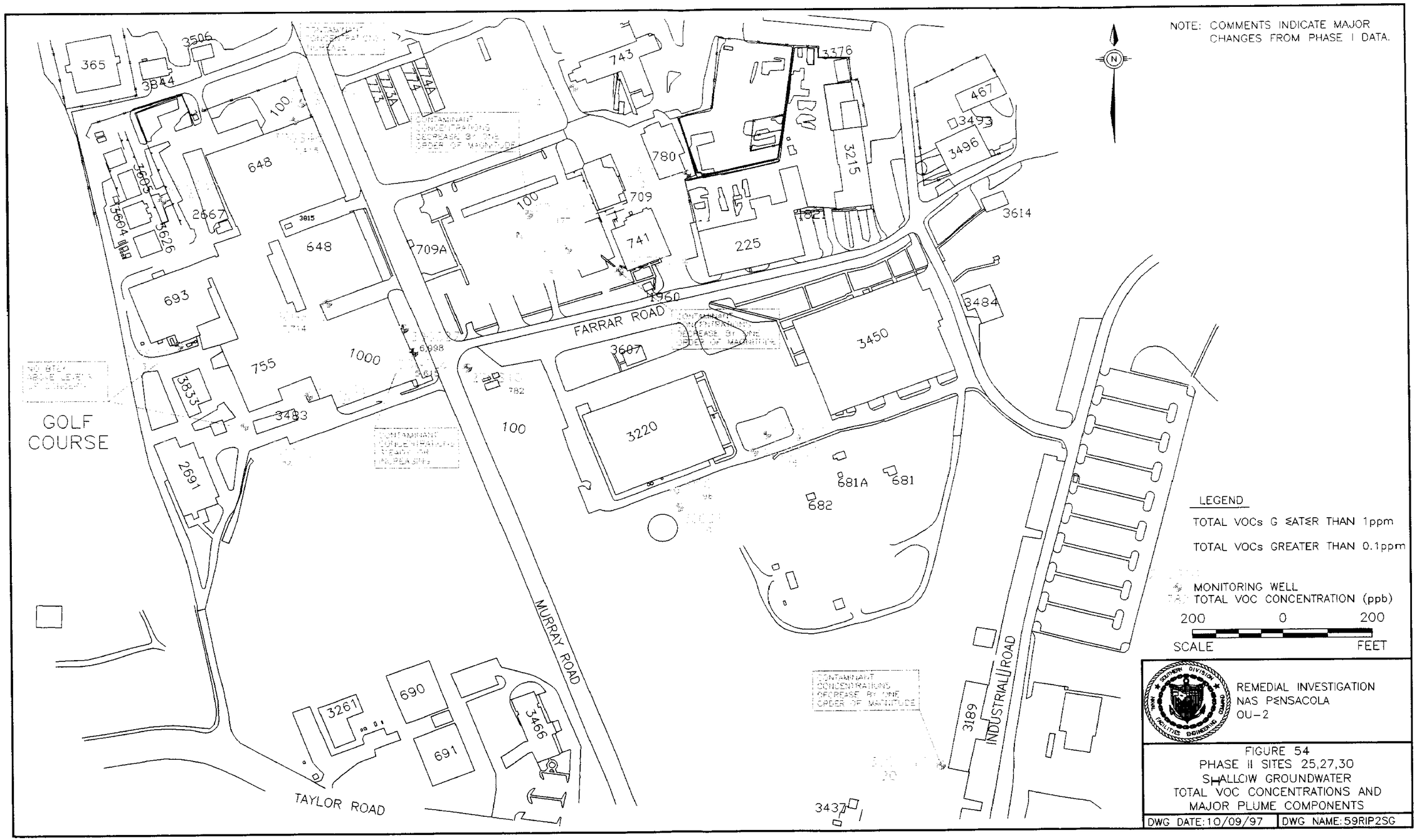
MONITORING WELL
TOTAL VOC CONCENTRATION (ppb)

200 0 200
SCALE FEET

REMEDIAL INVESTIGATION
NAS PENSACOLA
OU-2

FIGURE 53
PHASE I SITES 25,27,30
SHALLOW GROUNDWATER
TOTAL VOC CONCENTRATIONS AND
MAJOR PLUME COMPONENTS

DWG DATE: 10/09/97 | DWG NAME: 59RIP1SG


NOTE: COMMENTS INDICATE MAJOR CHANGES FROM PHASE I DATA.
N
365
3506
3844
100
648
3605
3604
3626
2667
3615
648
693
755
1000
3833
3483
2691
GOLF COURSE
773A
774
774A
743
3376
780
3215
467
3493
3496
709
100
709A
741
1960
225
3614
3484
FARRAR ROAD
3607
3450
782
100
3220
681A
681
682
MURRAY ROAD
690
691
3261
3466
TAYLOR ROAD
3437
3189
INDUSTRIAL ROAD
LEGEND
TOTAL VOCs G ≤AT≤R THAN 1ppm
TOTAL VOCs GREATER THAN 0.1ppm
MONITORING WELL
TOTAL VOC CONCENTRATION (ppb)
200 0 200
SCALE FEET
REMEDIAL INVESTIGATION
NAS P≤NSACOLA
OU-2
FIGURE 54
PHASE II SITES 25,27,30
S≤ALLOW GROUNDWATER
TOTAL VOC CONCENTRATIONS AND
MAJOR PLUME COMPONENTS
DWG DATE:10/09/97
DWG NAME:59RIP2SG

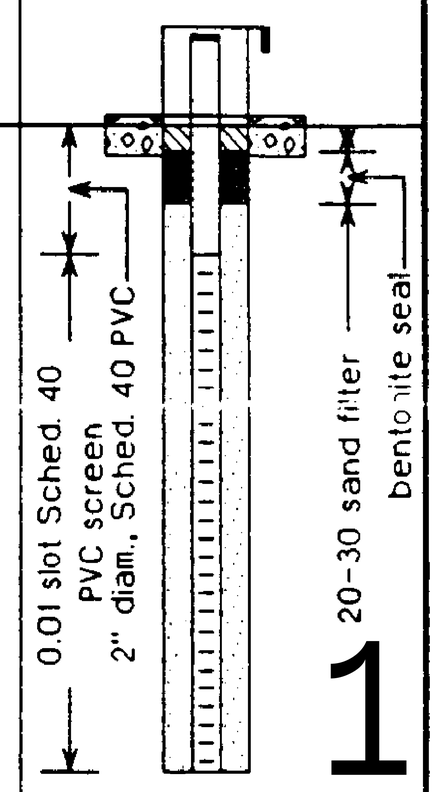
Appendix F

Soil Borings/Monitoring Well Construction Logs

EnSafe/Allen & Hoshall	Monitoring Well 11GS01
Project: *Site 11*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *4.02 feet msl*
stated at *on 9-15-93*	TOC Elevation: *6.27 feet msl*
Completed at *on 9-15-93*	Depth to Groundwater: *7.95 feet* Measured: *1/6/94*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *12.5 feet*
Geologist: *Q.G. Macdonald*	Well Screen: *2.5 to 12.5 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
								Surface Conditions: Ground surface/topsoil	
			SS-1					light brown, fine grained silty sand (0-1.5'bls disturbed/fill).	
								Tan brown, fine grained sand, moist (marine deposits).	
5			SS-2		10				
					20		SM	Saturated.	
								Cave in/plug starting.	
10									
								End of boring at 12.5' bls.	8.5
15								Notes: SS = Split Spoon	
								Samples Collected: 011SS00101, 011SS00104, 011SS00106, 011KS00106, 011XS00106	
20									
25									
30									
35									
40									

WELL DIAGRAM



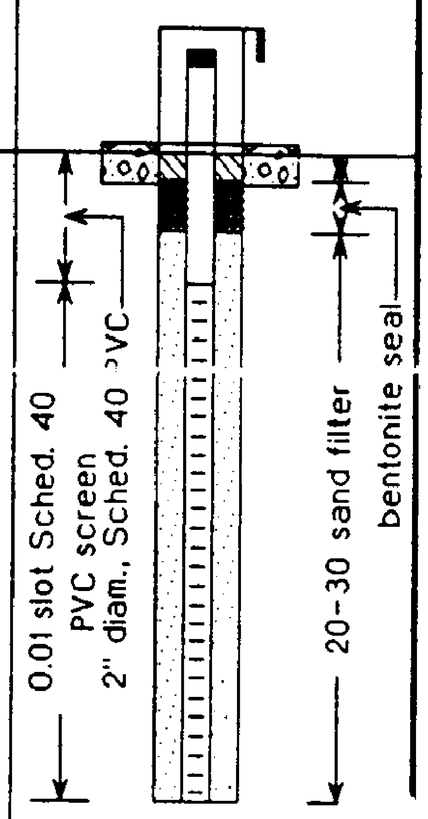
EnSafe/Allen & Hoshall

Monitoring Well 11GS03

Project: *Site 11*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *4.75 feet msl*
Started at *8:19 on 9-16-93*	TOC Elevation: *7.18 feet msl*
Completed at *10:00 on 9-16-93*	Depth to Groundwater: *9.04 feet* Measured: *1/6/94*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *12.5 feet*
Geologist: *Q.G. Macdonald*	Well Screen: *2.5 to 12.5 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
								Surface Conditions: Ground surface/topsoil	
								Light **brown, fine grained sand, moist, loose,**	
			SS-1		0				
5			SS-2		0.6			Moist to wet. Tan brown to white, fine grained sand, loose to **medium dense,**	
							SM	**Saturated at 4.5-5'bls.**	
10									
								Light gray fine grained **sand.**	
								End of **boring** at 12.5' bls.	7.7
15								**Notes:** SS = **Split** spoon	
								Samples Collected: 011SS00301 011SS00304 011SS00306	
20									
25									
30									
35									
40									

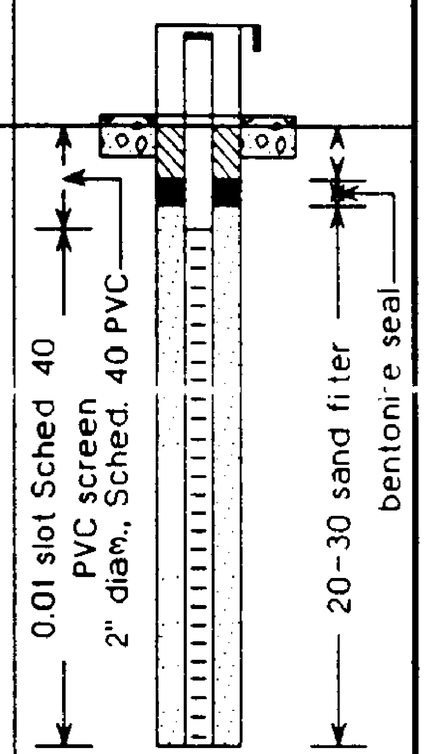
WELL DIAGRAM



EnSafe/Allen & Hoshall	Monitoring Well 11GS05
Project: *Site 11*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *7.47 feet msl*
Started at *9:45 on 10-1-93*	TOC Elevation: *9.42 feet msl*
Completed at *10:30 on 10-1-93*	Depth to Groundwater: *7.73 feet* Measured: *1/5/94*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *12 feet*
Geologist: *Q.G. Macdonald*	Well Screen: *2 to 12 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV (ft-msl)
					0 0			Surface Conditions: Ground surface/topsoil Brown, fine grained silty sand, with organics (roots), loose, dry to moist (marine deposits). Light brown to orange, fine grained sand, loose, moist. Water bearing saturated at 5.5-6'bls.	
5							SM		
10								Light brown to gray, fine grained sand.	4.5
								End of boring at 12' bls.	
15								Notes: SS = Split Spoon	
								Samples Collected: No soil samples collected for laboratory analysis.	
20									
25									
30									
35									
40									

WELL DIAGRAM



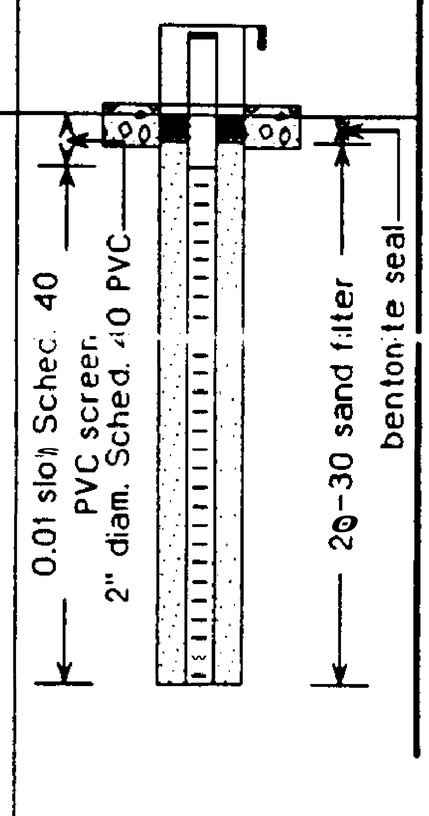
EnSafe/Allen & Hoshall

Monitoring Well 11GS07

Project: *Site 11*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *9.70 feet msl*
Started at *7:20 on 9-21-93*	TOC Elevation: *11.45 feet msl*
Completed at *9:00 on 9-21-93*	Depth to Groundwater: *4.97 feet* Measured: *1/5/94*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *11 feet*
Geologist: *Q.G. Macdonald*	Well Screen: *1 to 11 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% COVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1				SM	**Surface Conditions: Hooded area/vegetation.** **Tan** light **brown**, fine grained **sand, loose, dry** to **moist, disturbed** fill to 1.5'bls.	
5								Black to dark gray, fine to medium grained silty sand and debris (construction and metal fragments), product/sludge/waste? Saturated **at** 2-2.5'bls. Sheen on **augers.**	
								Bottom of fill at 7.5-8.0'bls.	
10								Light **gray** fine **grained sand,** loose to **medium dense, saturated (marine deposits)**	
								Light gray, **fine grained sand.**	L3
								End of **boring** at 11' bls.	
15								Notes: **SS =** Split Spoon	
								Samples Collected: 011SS00703	
20									
25									
30									
35									
40									

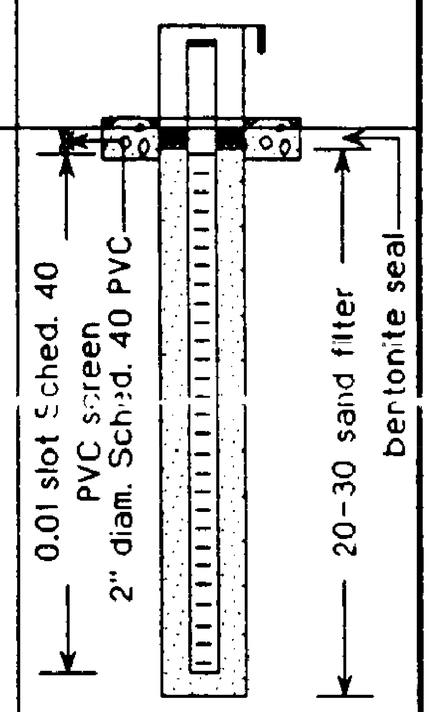
E L L OIAGRAM



EnSafe/Allen & Hoshall	Monitoring Well 11GS09
Project: *Site 11*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *9.24 feet msl*
Started at *11:00 on 9-17-93*	TOC Elevation: *11.21 feet msl*
Completed at *12:00 on 9-17-93*	Depth to Groundwater: *3.64 feet* Measured: *1/6/94*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *11 feet*
Geologist: *Q.G. Macdonald*	Well Screen: *0.5 to 10.5 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
					40		SM	Surface Conditions: Vegetation/soil. Light **brown, fine grained sand, loose, moist, fill.** Dark gray **black, fine grained sand, saturated** at 1'bls. Black sludge/product **(diesel odor).** **Debris,** gravel, concrete fragments, **bricks, glass,** metal, and organics (wood and roots).	
5								Bottom of **fill at** 7.5-8.0'bls. Light **gray** to greenish gray, **fine grained sand,** loose, saturated,	
10								Fine **grained sand.**	8
								End of boring at 11' bls.	
15								Notes: SS = Split Spoon	
20								Samples Collected: No **soil samptes** collected **far laboratory analysis.**	
25									
30									
35									
40									

WELL DIAGRAM



EnSafe/Allen & Hoshall

Monitoring Well 11GS11

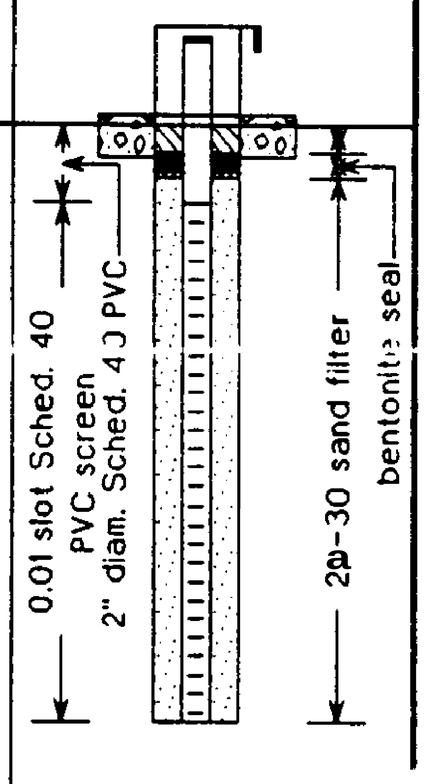
Project: *Site 11*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *8.44 feet msl*
Started at *11:00 on 9-16-93*	TOC Elevation: *10.34 feet msl*
Completed at *2:30 on 9-16-93*	Depth to Groundwater: *5.25 feet* Measured: *1/6/94*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *11.5 feet*
Geologist: *G.G. Macdonald*	Well Screen: *1.5 to 11.5 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1		3			**Surface Conditions: Edge of pavement, vegetation/soil.** **Tan and red brown, fine grained** silty **sand, moist,** fill to 1.0'bls.	
			SS-2	0	1.6				
5			SS-3		2		SM	Gray black, fine grained sand, moist to wet (fill). No recovery from 2-4'bls. **Black gray, fine grained sand, saturated, debris and sludge.** Bottom of fill at 8-9'bls.	
10								**Organics observed on** auger **head,** Gray, fine grained **silty sand,** loose, **saturated.** **End of boring at** 11.5' bls.	-3.1
15									
20									
25									
30									
35									
40									

Notes:
SS = Split Spoon

Samples Collected:
011SS01101
011SS01106

WELL DIAGRAM



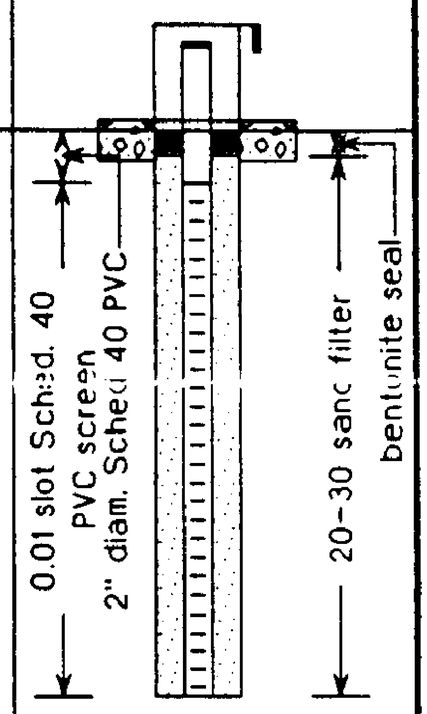
EnSafe/Allen & Hoshall	Monitoring Well 11GS13
Project: *Site 11*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *8.42 feet msl*
Started at *10:15 on 9-20-93*	TOC Elevation: *10.46* feet *msl*
Completed at *10:45 on 9-20-93*	Depth to Groundwater: *4.72 feet* Measured: *1/6/94*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *14 feet*
Geologist: *Q.G. Macdonald*	Well Screen: *1 to 11 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1					Surface Conditions: Vegetation, edge of road. Light gray, fine grained sand, moist. Wet at 1.5'bls.	
			SS-2					Black and dark gray, fine grained sand, with organics and debris (glass fragmetns/gravel) fill.	
5							SM	Black stained soil (diesel odor).	
								Bottom of fill at 8'bls. tight gray, fine grained sand, loose, saturated, marine deposits.	
10								White to very light gray, fine grained sand, loose to medium dense, saturated.	-26
								End of boring at 14' bls (cave in 1.5'), re-drill to 11' bls.	
15									
20									
25									
30									
35									
40									

Notes:
SS = Split Spoon

Samples Collected:
011SS01301 (submitted as 011SS01701)
011KS01301
011XS01301

WELL DIAGRAM



EnSafe/Allen & Hoshall

Monitoring Well 11GI04

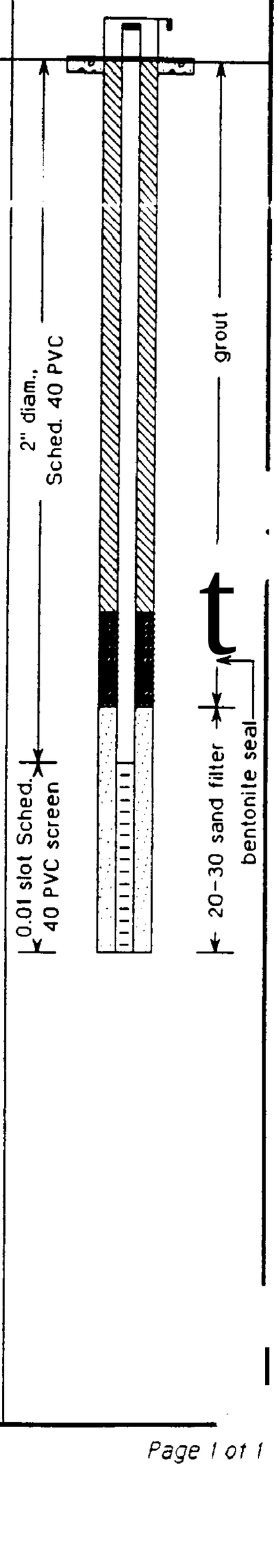
Project: *Site 11*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *8.10 feet msl*
Started at *1740 on 9-29-93*	TOC Elevation: *10.39 feet msl*
Completed at *on 9-29-93*	Depth to Groundwater: *feet* Measured:
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *47 feet*
Geologist: *Steve Howard*	Well Screen: *37 to 47 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOI. CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
							SP	Surface Conditions: Soil edge of berm.	
			SS-1		0		CH	Fill, poorly sorted, fine grained, brown sand.	6.6
5								Brown red clay.	6.1
								Poorly sorted, fine grained, brown sand from 2 to 2.5'bls.	
10								Poorly sorted, fine grained, white sand, moist.	
								Poorly sorted, fine grained, brown sand, moist.	
15								Poorly sorted, fine grained, tan sand, moist.	
								Same as above.	
20								Poorly sorted, fine grained, white sand, moist.	
								Poorly sorted, fine grained, tan sand, moist.	
25							SP	Same as above.	
30								Poorly sorted, fine grained, brown/gray sand.	
35									
40								Poorly sorted, fine grained sand.	
45									
								Clay at 47' bls	38.9
50								End of boring at 47' bls.	
55									
60									
65									
70									

Notes:
SS = Split Spoon

Samples Collected:
011SI00404

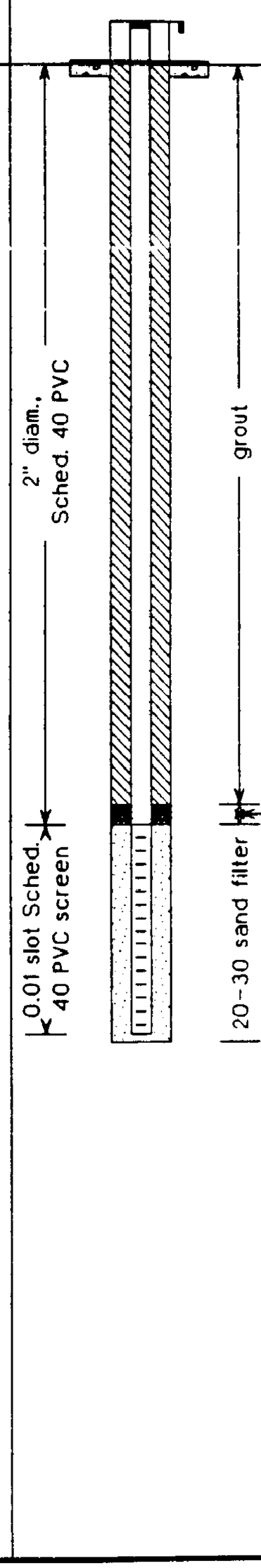
WELL DIAGRAM



EnSafe/Allen & Hoshall	Monitoring Well 11GI06
Project: *Site 11*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *5.33 feet msl*
Started at *9:30 on 9-29-93*	TOC Elevation: *7.34 feet msl*
Completed at *5:40 on 9-29-93*	Depth to Groundwater: *8.66 feet* Measured: *11/6/94*
Drilling Method: *6.25" ID Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *47 feet*
Geologist: *Q.G. Macdonald*	Well Screen: *36.6 to 46.6 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1		7.6			Surface Conditions: Ground surface/topsoil Black gray, organic, fine grained, loose, dry to moist sand to 0.5'bls.	
			SS-2						
5					17 53			Light brown to red, loose, fine grained, moist sand.	
10					130			Tan brown, loose, fine grained, moist sand. Wet at 2.5-3.5'bls (marine deposits).	
15								Brown, loose, fine grained, saturated sand. Water bearing (marine deposits).	
20								Light brown to yellowish orange, fine grained silty sand, very loose, saturated (marine deposits).	
25							SM	Gray to white, fine grained sand, loose, saturated (marine deposits).	
30									
35								Same as above.	
40									
45									
			SS-3				CH	Gray green, very soft, moist clay. End of boring at sand clay contact.	41.8
50									
55								Notes: SS = Split Spoon	
60								Samples Collected: 011SI00602 011SI00604 011CI00604	
65									
70									

WELL DIAGRAM



EnSafe/Allen & Hoshall

Monitoring Well 11GI08

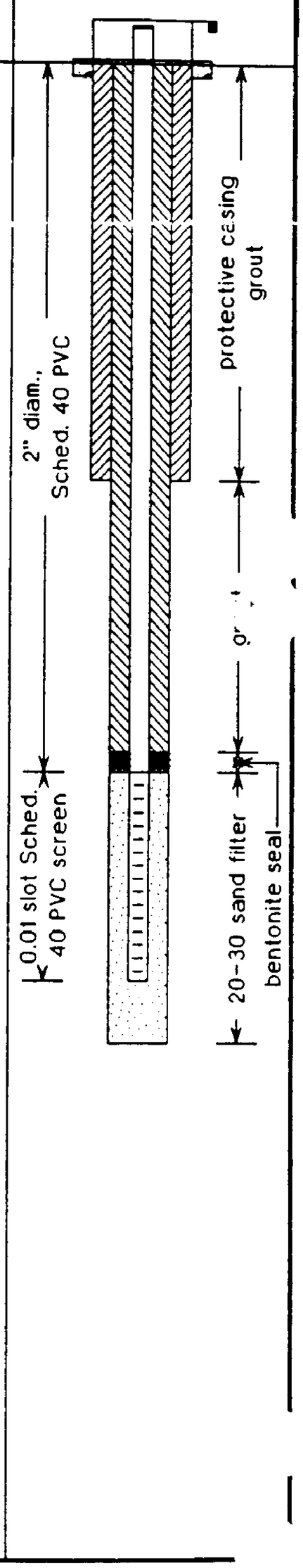
Project: *Site 11*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *8.34 feet msl*
Started at *9:30 on 10-8-93*	TOC Elevation: *10.47 feet msl*
Completed at *on*	Depth to Groundwater: *6.00 feet* Measured: *1/5/94*
Drilling Method: *10.25" ID Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *47 feet*
Geologist: *Q.G. Macdonald*	Well Screen: *34 to 44 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
5			SS-1		70		SM	Surface Conditions: Wooded area. Fill hard. Brown, fine grained sand, very loose, moist to wet. Black, very loose, fine grained, wet (sludge/product?), silty sand. Tri-cone refusal on wood. Moved hole 5' south on 10-11-93.	
10									
15									7.7
20			SS-2				SM SC	Brown and gray, loose, fine grained sand with laminae clay lenses, Saturated. Set 6" ID PVC protective casing and grouted bottom of protective casing at 20'bls on 10-14-93.	13.7
25			SS-3				SM	Tan, brown, fine grained sand, loose, saturated (metal fragments observed in sample), marine deposits. Same as above (no metal fragments in sample).	
30									
35			SS-4					Light gray, fine grained sand, loose, saturated (marine deposits).	
40			SS-5					Light gray, fine grained silty sand, loose, saturated (beginning of transition zone).	
45			ST-6				CH	Green gray, clay, highly plastic, with shell fragments (marine deposits),	36.5
50								End of boring at 47' bls in gray clay.	38.7
55									
60									
65									
70									

Notes;
SS = Split Spoon
ST = Shelby Tube

Samples Collected:
No soil samples collected for laboratory analysis.

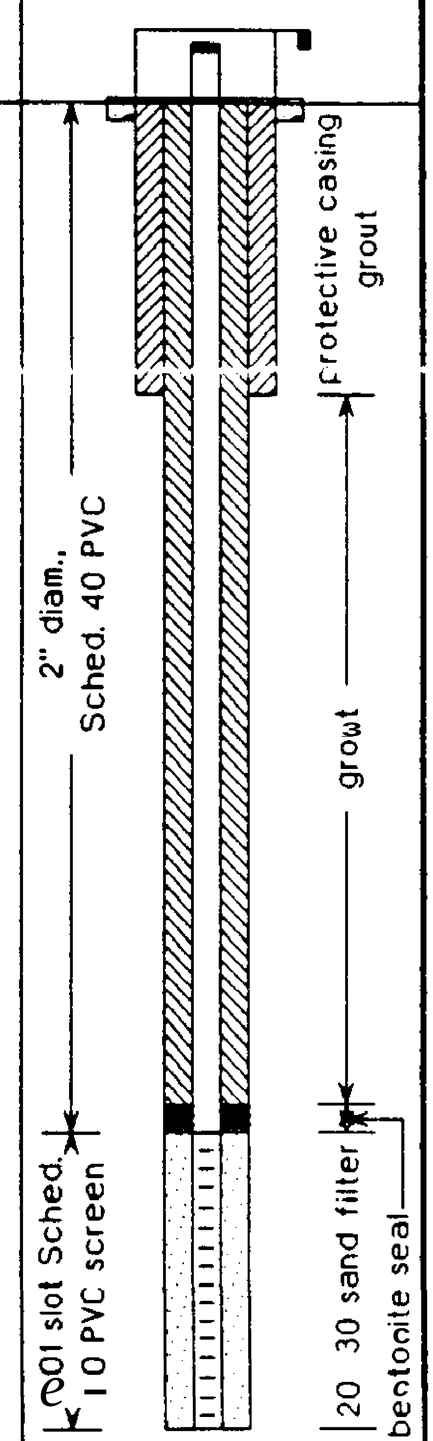
WELL DIAGRAM



EnSafe/Allen & Hoshall	Monitoring Well 11GI10
Project: *Site 11*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *2.41 feet msl*
Started at *10:00 on 9-28-93*	TOC Elevation: *4.19 feet msl*
Completed at *on 10-4-93*	Depth to Groundwater: *3.64 feet* Measured: *1/6/94*
Drilling Method: *10.25" ID Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *45 feet*
Geologist: *Q.G. Macdonald*	Well Screen: *35 to 45 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
5								Surface Conditions; **Soil** **Advanced 10.25" HSA** to 9'bls **and set** protective **casing** at 10'bls **and grouted** on 10-1-93.	
10							SM	Wet rounded grave! (quartz) in **mud. fill material** with concrete fragments. Button of fill 7-9'bls.	
15			SS-1					White gray, loose, **saturated,** fine **grained sand** (clean **sediments** - marine **deposits).**	
20					1			Same as above.	
25			SS-2		8			White gray, fine to **medium** grained **sand,** loose to **medium dense,** saturated (marine **deposits).**	-22.6
30					1.5		SM S?	Same **as above.**	
35			SS-3		1.9				-33.9
40			SS-4		0.8		SM	Light **brown,** fine grained **sand,** medium **dense,** saturated (marine deposits).	
			SS-5		2.2		SC	**White** light gray, fine grained **sand, very** loose, saturated (marine **deposits).**	-38.6
45			ss-6				CH	**Dark** gray, fine **grained sand and** clay, **very soft,** saturated (transition zone).	-42.1 -42.6
50								Gray clay, very soft, fatty, **moist** to wet,	
55								Notes; **SS** = Split Spoon	
60								Samples Collected: No soil samples collected for laboratory analysis,	
65									
70									

WELL DIAGRAM



EnSafe/Allen & Hoshall

Monitoring Well 11GI12

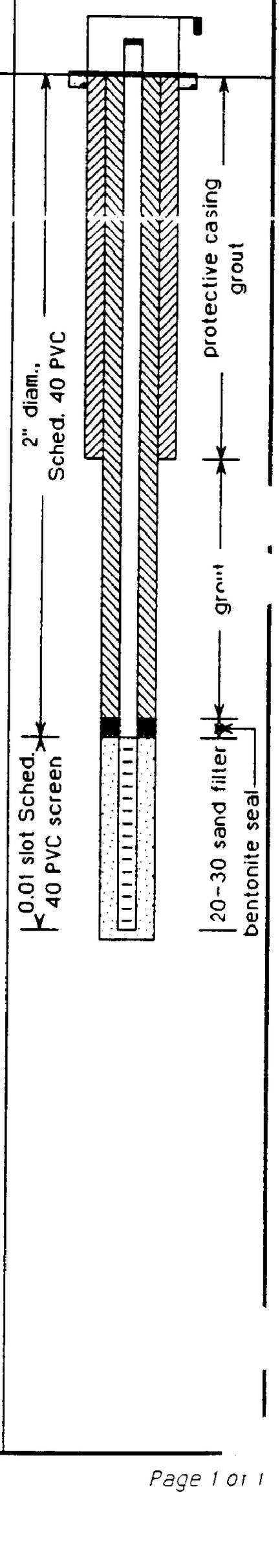
Project: *Site 11*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *3.10 feet msl*
Started at *1:40 on 9-24-93*	TOC Elevation: *5.01 feet msl*
Completed at *on 10-25-93*	Depth to Groundwater: *5.27 feet* Measured: *1/6/94*
Drilling Method: *10.25" ID Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *45 feet*
Geologist: *Q.G. Macdonald*	Well Screen: *34.5 to 44.5 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE P	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
5, 10					22		SW	**Surface Conditions:** Vegetation **edge of road. Original borehole refusal at 6'bls concrete.** On **9-27-93 installed surface casing 10'bls and grouted.** on 10-7-93 while advancing tri-cone bit casing lost **seal,** pulled out **casing and reset** to 20'bls.	
15			SS-1 SS-2 SS-3					Brown **medium** to coarse **grained sand and gravel, saturated** fill. Construction **debris/cave-in?**	11.9
20, 25, 30, 35, 40							SM	**Gray** fine grained **sand, very loose, saturated marine deposits,** **White** to light gray **brown, loose, saturated,** fine **grained sand (marine deposits).** Set 6" ID protective **casing, On** 10-25-93, **advanced** tri-cone through **casing** to **set well.** **White** to light gray, fine **grained sand,** loose, **saturated** (marine **deposits).** **Same as above.** **Yellow** to orange **brown,** fine **grained silty sand,** very loose, **saturated.**	
45							CH	**Gray clay,** highly plastic, moist. **End of boring.**	-41.4 -41.9
50, 55, 60, 65, 70									

Notes:
SS = Split Spoon

Samples Collected:
No soil samples collected for **laboratory analysis,**

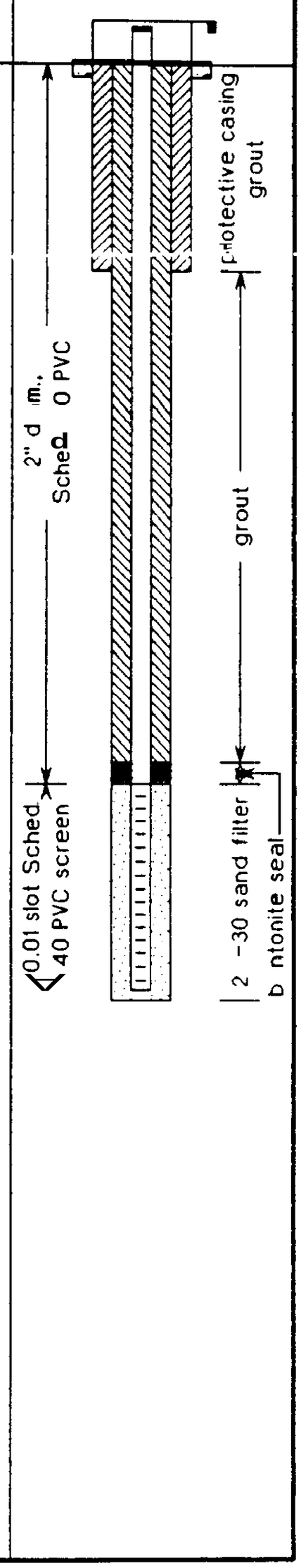
WELL DIAGRAM



EnSafe/Allen & Hoshall	Monitoring Well 11GI14
Project: *Site 11*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *2.90 feet msl*
Started at *1:05 on 9-23-93*	TOC Elevation: *5.01 feet msl*
Completed at *on*	Depth to Groundwater: *4.56 feet* Measured: *1/6/94*
Drilling Method: *10.25" ID Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *45 feet*
Geologist: *Q.G. Macdonald*	Well Screen: *34.5 to 44.5 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
5								Surface Conditions: Grass. Reference geology from 11GS13. Set 6" ID PVC protective casing at 10'bls and grouted. Bottom of fill.	
10					7				
15								Drilling turned firm (well compacted sand zone).	
20							SM	Drilling mud turned dark brown, drilling normal (loose zone).	
25								Reference geology from 11GI10. Gray, fine grained sand, loose to medium dense, saturated, clean (marine deposits).	
30									
35								Same as above.	
40							SC	Gray clayey sand (transition zone), very soft, moist to wet (marine deposits).	WE
45							CH	Gray clay, highly plastic, inorganic, fatty, very soft, moist to wet. End of boring at 45'bls in clay.	41.9 42.1
50								Notes:	
55								Samples Collected: No soil samples collected for laboratory analysis.	
60									
65									
70									

WELL DIAGRAM



EnSafe/Allen & Hoshall

Monitoring Well 11GI15

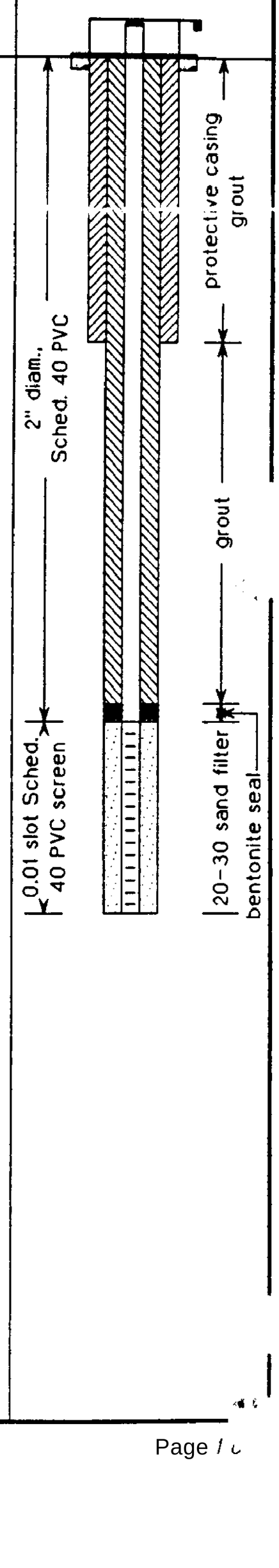
Project: *Site 11*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *3.43 feet msl*
Started at *1:40 on 10-15-93*	TOC Elevation: *5.45 feet msl*
Completed at *on*	Depth to Groundwater: *6.21 feet* Measured: *1/6/94*
Drilling Method: *10.25" ID Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *47 feet*
Geologist: *Q.G. Macdonald*	Well Screen: *35 to 45 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1					Surface Conditions: Vegetation/soil. Brown, fine to medium grained, moist, sand fill and Large concrete boulders (construction debris).	
5			SS-2		20		SM	Brown, fine grained, silty sand, with organics. Moist to wet.	
10									
15			SS-3				SM SP	Set 6" protective casing on 10-22-93. On 10-25-93, gray to dark gray fine to medium grained sand, loose, saturated marine deposits.	11.6 12.6
20			SS-4					Light gray to white, loose to medium dense, saturated, fine grained sand (clean marine deposits).	
25			SS-5				SM	Same as above, White, fine grained sand with a few light gray layers, medium dense, saturated.	
30									
35									
40			SS-6					Orange yellow, fine grained sand, very loose, saturated to 40.7'bls.	
			SS-7				SC	White, fine grained sand, loose to very loose, saturated.	-37.8
45			ST-1				CL CH	Gray, fine grained sand with some laminae clay layers. Loose to very loose, saturated.	40.1 41.6 43.6
50								Gray, fine grained sandy silty clay (transition zone], very saft, saturated, plastic,	
55								Gray clay. End of boring at 47'bls.	
60									
65									
70									

Notes:
SS = Split Spoon
ST = Shelby Tube

Samples Collected:
011SI01501
011KS01501
011XS01501
011SI01506

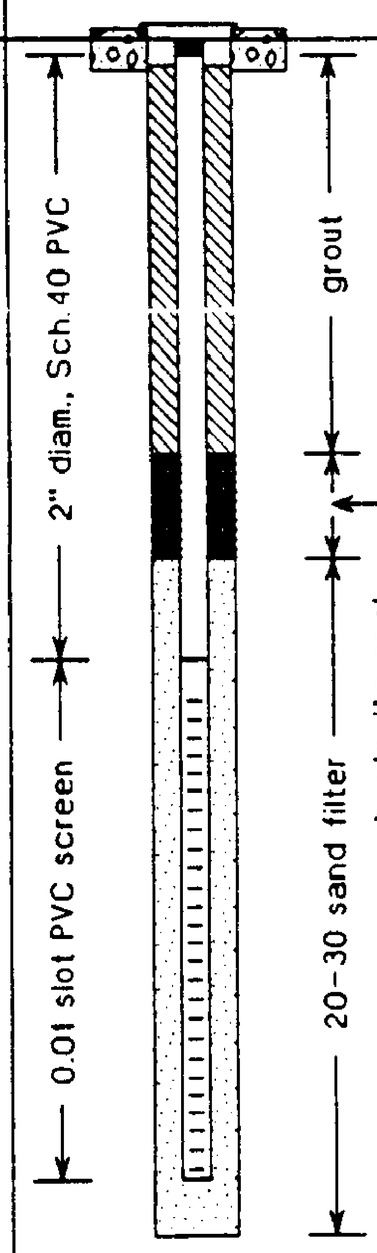
WELL DIAGRAM



EnSafe/Allen & Hoshall	Monitoring Well 012GS01
Project: *Site 12*	Location: *NAS Pensacola*
Project No.: *0970-00030*	Surface Elevation: *feet msl*
Started at *14:50 on 4-20-95*	TOC Elevation: *17.81 feet msl*
Completed at *on*	Depth to Groundwater: *14.33 feet* Measured: *6-26-95*
Drilling Method: *Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *23 feet*
Geologist: *S. Parker*	Well Screen: *12 to 22 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
					0		CL	**Surface Conditions: 6"** concrete. **Red clayey sand fill to 2'bls.**	
5					0				
10			SS-1				SP	Tan to orange fine to **medium grained mottled sand with fen heavies to 10'bls.** Becoming slightly **coarser, laminations** of **orange, slightly moist from 10-12'bls.** Same **sand** to **14'bls. Wet** at **14.2'bls. Clean** white **medium grained sand** to **17'bls. Dark brown** fine to **medium grained sand** to **23'bls.**	
15			SS-2						
20									
25								Notes: SS = Split Spoon Sample **Samples** Collected: 012S000112 012S000115	
30									
35									
40									

WELL DIAGRAM



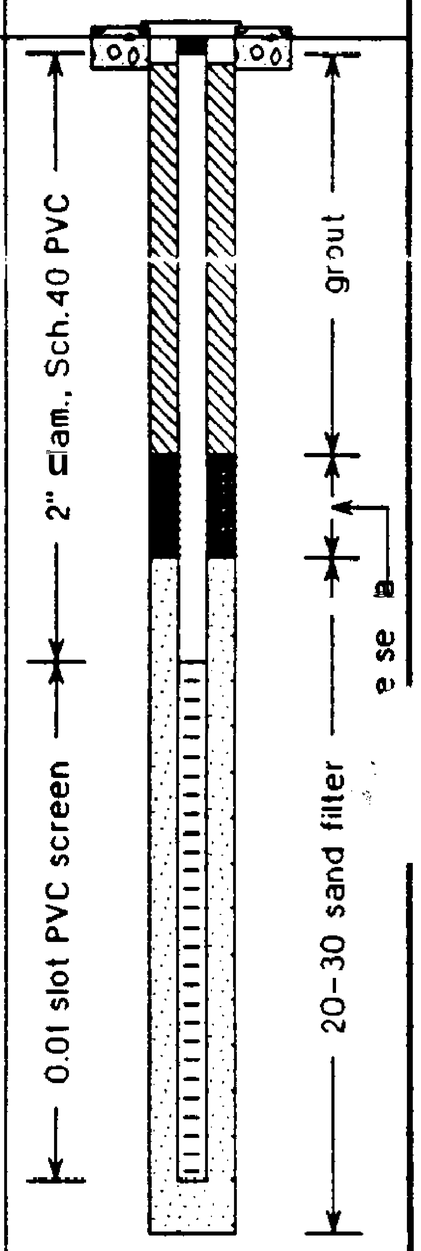
EnSafe/Allen & Hoshall

Monitoring Well 012GS02

Project: *Site 12*	Location: *NAS Pensacola*
Project No.: *0970-00030*	Surface Elevation: *feet msl*
Started at *09:25 on 4-19-95*	TOC Elevation: *18.23 feet msl*
Completed at *on*	Depth to Groundwater: *14.87 feet* Measured: *6-26-95*
Drilling Method: *Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *23 feet*
Geologist: *S. Parker*	Well Screen: *12 to 22 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-t		0		GC	Surface Conditions: 10" concrete.	
			SS-2		0		SP	Dark brawn to orange shelly sand to 4"bls. Same quartz gravel present. Tan to orange mottled fine to medium grained well sorted sand to 1'bls.	
5									
10			SS-3		0		SP	Tan to orange mottled fine to medium grained well sorted sand with 3-5% heavy minerals and some orange laminae to 8'bls. Becoming white fine to medium grained sand with few orange stringers. Some mottling present and 1-3% heavy minerals to 13'bls. Clean white fine to medium grained sand with trace heavier minerals to 15'bls. Coarser than the above sand. Wet at 14.5'bls. Clean white fine to medium grained sand to 23'bls.	
15			SS-4		0				
20									
25								Notes: SS = Split Spoon Sample Samples Collected: 012S000201 012S000205 012S000210 012S000215	
30									
35									
40									

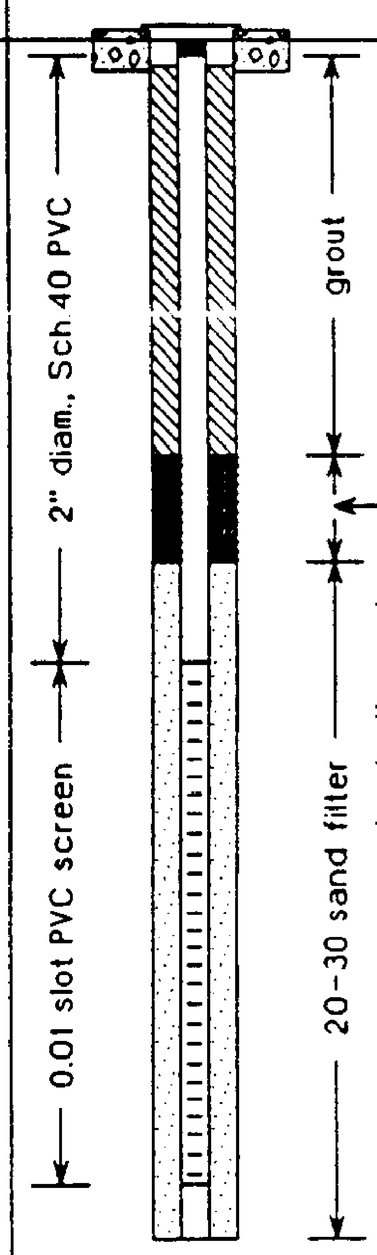
WELL DIAGRAM



EnSafe/Allen & Hoshall	Monitoring Well 012GS03
Project: *Site 12*	Location: *NAS Pensacola*
Project No.: *0970-00030*	Surface Elevation: *feet msl*
Started at *11:15 on 4-19-95*	TOC Elevation: *18.23 feet msl*
Completed at *on*	Depth to Groundwater: *14.68 feet* Measured: *6-26-95*
Drilling Method: *Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *23 feet*
Geologist: *S. Parker*	Well Screen: *12* to22 feet

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1		0		GC SP	Surface Conditions: 10" concrete. Metal debris in upper 6". Gravel and shelly clayey sand fill material with large quartz pebbles in upper 4"bls. Tan to orange mottled fine to medium grained well sorted sand to 1'bls.	
5			SS-2		0				
10			SS-3				SP	Tan to orange fine to medium grained well sorted sand with 3-5% heavy minerals to 10'bls. Same sand to 13.5'bls. Clean white fine to medium grained sand to 23'bls. Coarser than the above sand. Wet at 14'bls.	
15			SS-4						
20									
25								**Nates:** SS = Split Spoon Sample	
30								Samples Collected; 012S000301 012S000305 012S000310 012S000315	
35									
40									

WELL DIAGRAM



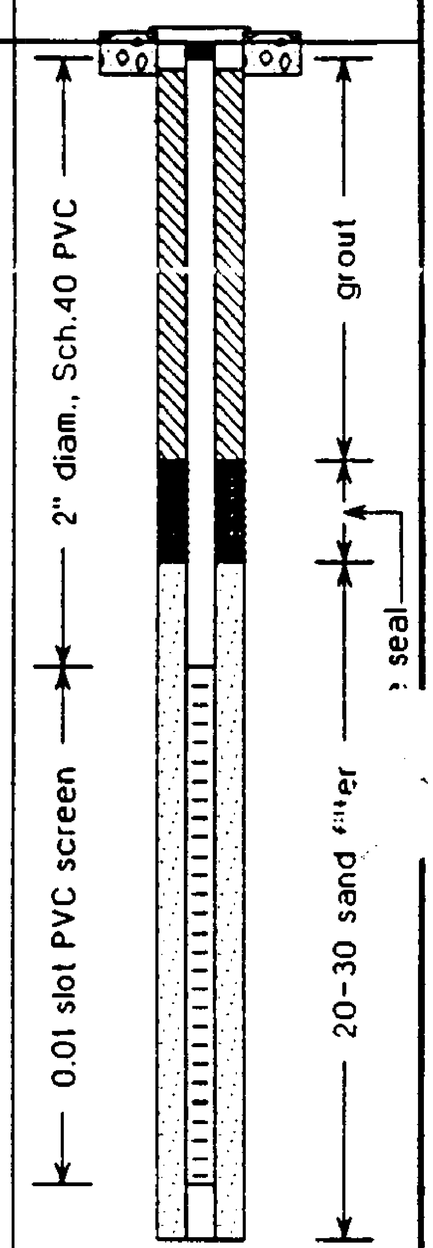
EnSafe/Allen & Hoshall

Monitoring Well 012GS05

Project: *Site 12*	Location: *NAS Pensacola*
Project No: *0970-00030*	Surface Elevation: *feet msl*
Started at *13:50 on 4-19-95*	TOC Elevation: *18.21 feet msl*
Completed at *14:15 on*	Depth to Groundwater: *14.8 feet* Measured: *6-26-95*
Drilling Method: *Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *23 feet*
Geologist: *S. Parker*	Well Screen: *12 to 22 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	S M E NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1		0		GC SM	Surface Conditions: 10" concrete. Dark brown gravelly and shelly clayey sand fill material in upper 4"bls. Tan to orange mottled fine to medium grained well sorted sand with orange stringers to 1'bls.	
5			SS-2		0		SP	Tan to orange mottled fine to medium grained well sorted sand with 1-3% heavy minerals and laminated with orange stringers. to 8.5'bls.	
10			SS-3				SC	Gray to brown stiff clayey sand to sandy clay to 9.5'bls. Sharp contrast 2" organic rich at contact. Low moisture content.	
							SP SC	Tan to orange to brown fine to medium grained sand laminated with orange and brown stringers to 13.4'bls. 1-2cm clayey sand layer at contact.	
15			SS-4						
20							SP	White fine to medium grained sand to 17'bls. Coarser than the above sand. Wet at 14.5'bls. Dark brown fine to medium grained sand to 23'bls.	
25								Notes: SS = Split Spoon Sample	
30								Samples Collected: 012S000501 012S000505 012S000510 012S000515	
35									
40									

WELL DIAGRAM



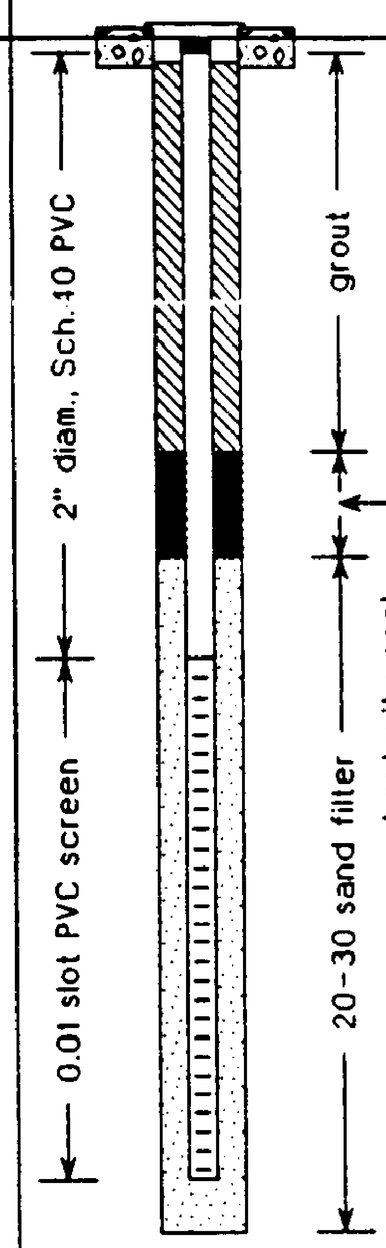
EnSafe/Allen & Hoshall

Monitoring Well 012GS06

Project: *Site 12*	Location: *NAS Pensacola*
Project No.: *0970-00030*	Surface Elevation: *feet msl*
Started at *10:30 on 4-20-95*	TOC Elevation: *18.22 feet msl*
Completed at *on*	Depth to Groundwater: *14.9 feet* Measured: *6-26-95*
Drilling Method: *Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *23 feet*
Geologist: *S. Parker*	Well Screen: *12 to 22 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1		0		GC SM	Surface Conditions: 10" concrete+ Dark brown shelly sandy fill material in upper 3"bls. Tan fine to medium grained sand with brown laminae to 1'bls.	
5			SS-2		0				
10			SS-3		0				
15			SS-4		0		SP	Tan to orange mottled fine to medium grained moderately well sorted sand with lamination and 1-3% heavy minerals to 8'bls. Tan to brown fine to medium grained sand with feu laminae and few heavier minerals to 10'bls. Tan to buff white clear fine to medium grained sand to 15'bls. Slightly coarser than overlying material. Wet at 14.5'bls. Brown medium grained sand to 23'bls.	
20									
25								Notes: SS = Split Spoon Sample	
30								Samples Collected: 012S000601 012S000605 012S000610 012S000615	
35									
40									

WELL DIAGRAM



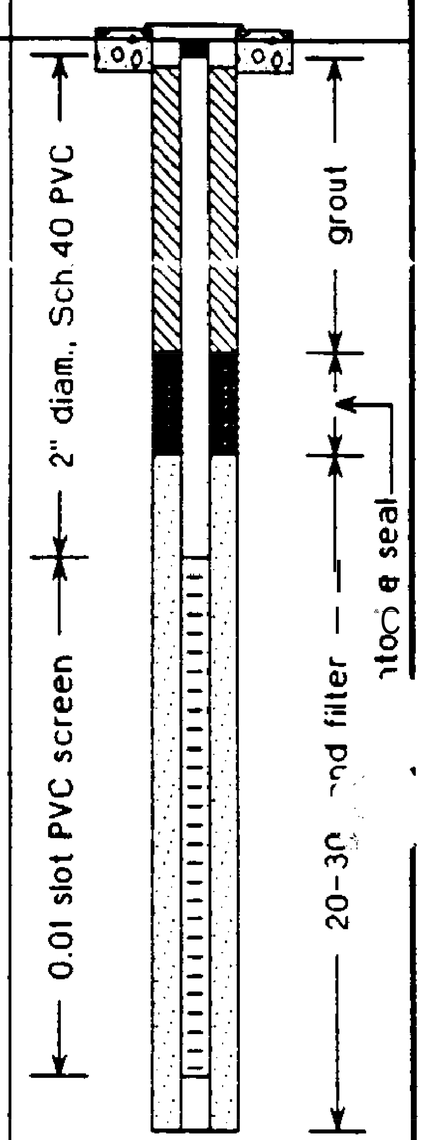
EnSafe/Allen & Hoshall

Monitoring Well 012GS08

Project: *Site 12*	Location: *NAS Pensacola*
Project No.: *0970-00030*	Surface Elevation: *feet msl*
Started at *14:20 on 4-25-95*	TOC Elevation: *18.34 feet msl*
Completed at *on*	Depth to Groundwater: *14.32 feet* Measured: *6-26-95*
Drilling Method: *Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *21 feet*
Geologist: *S. Parker*	Well Screen: *10 to 20 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1		0		SC	Surface Conditions: 10" concrete, Brawn, tan and orange mottled fine to medium grained clayey sand with laminae to 1'bls.	
			SS-2		0		SP SM	Mottled orange, tan and brown fine to medium grained silty sand with 3% heavies, few gravel pieces to 5'bls.	
5									
			SS-3						
10									
			SS-4				SP	Tan to orange mottled fine to medium grained sand with lamination and 3%heavy minerals to 8'bls. Tan to gray fine to medium grained laminated sand to 10'bls. Gray to white fine to medium grained sand to 14'bls. Wet at 13'bls. White medium grained moderately well sorted sand to 17'bls. White medium grained sand with trace heavies to 21'bls.	
15									
			SS-5						
20									
25								Notes: SS = Split Spoon Sample Samples Collected: 012S000801 012S000805 012C000805 012S000810 012K000810 012x000810 012S000814 012S000817-grain site only	
30									
35									
40									

WELL DIAGRAM

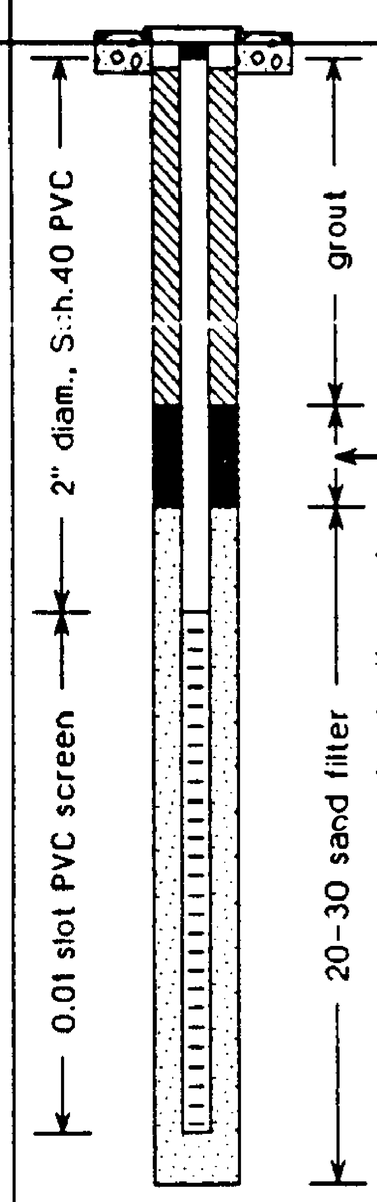


EnSafe/Allen & Hoshall

Monitoring Well 012GS09

Project: *Site 12*	Location: *NAS Pensacola*
Project No.: *0970-00030*	Surface Elevation: *feet msl*
Started at *08:35 on 4-20-95*	TOC Elevation: *16.85 feet msl*
Completed at *on*	Depth to Groundwater: *13.4 feet* Measured: *6-26-95*
Drilling Method: *Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *22 feet*
Geologist: *S. Parker*	Well Screen: *11 to 21 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	3 (ft msl)	WELL DIAGRAM
			SS-1		0		GC SM	Surface Conditions: 10" concrete. Dark brown to orange gravelly sand with rock debris present to 3"bls. Tan to orange fine to medium grained sand to 1'bls.		
5			SS-2				SP	Mottled tan to orange fine to medium grained sand with some dark brown stringers, few gravel pieces to 5'bls. Tan to orange mottled fine to medium grained sand with orange laminae and 1-3% heavier minerals.		
10			SS-3		0		SP SC			
15			SS-4				SP	White to light gray fine to medium grained sand with gray stringers of clay and laminae to 10'bls. Moist at 10'bls. White fine to medium grained sand to 15'bls. Coarser than the above sand. Wet in entire interval. Clean white fine to medium grained sand to 22'bls.		
20										
25								Notes: SS = Split Spoon Sample		
30								Samples Collected: 012S000901, 012S000905, 012C000905, 012S000910, 012K000910, 012X000910		
35										
40										



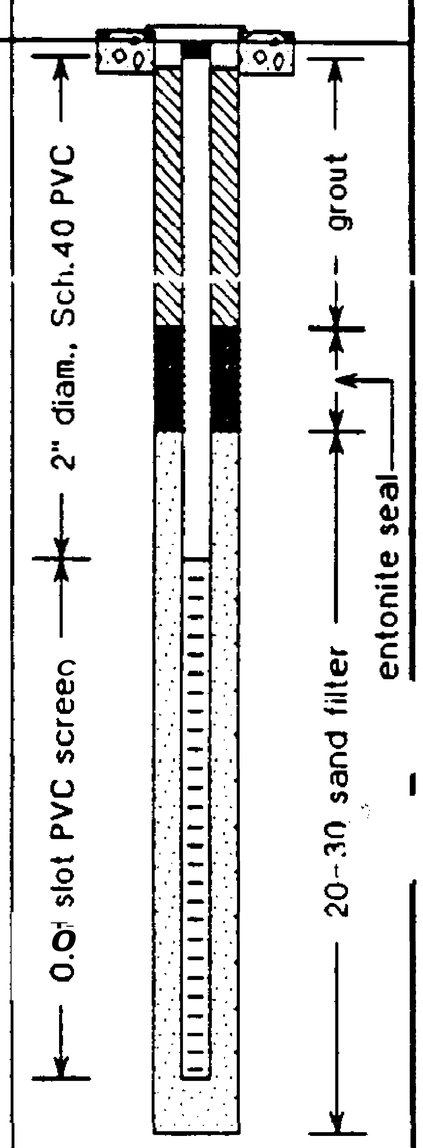
EnSafe/Allen & Hoshall

Monitoring Well 012GS10

Project: *Site 12*	Location: *NAS Pensacola*
Project No.: *0970-00030*	Surface Elevation: *feet msl*
Started at *08:50 on 4-25-95*	TOC Elevation: *17.04 feet msl*
Completed at *09:45 on 4-25-95*	Depth to Groundwater: *13.55 feet* Measured: *6-26-95*
Drilling Method: *Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *21 feet*
Geologist: *S. Parker*	Well Screen: *10 to 20 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1		0		SM	Surface Conditions: Gravelly soil with shell material-toad base. Shelly silty sand fill material or road base to 1'bls.	
			SS-2						
5									
			SS-3		0				
10			SS-4				SP	Tan to orange fine to medium grained sand, mottled brown with 3% heavies to 8.5'bls. Gray to tan medium grained sand with brown laminae to 10'bls. Coarser than above. Gray to tan medium grained sand laminated with brown and orange to 12'bls. Moist at base. Clean white medium grained sand to 21'bls.	
15									
20									
25								Notes: SS = Split Spoon Sample	
30								Samples Collected: 012S001001, 012S001005, 012S001010, 012S001012	
35									
40									

WELL DIAGRAM



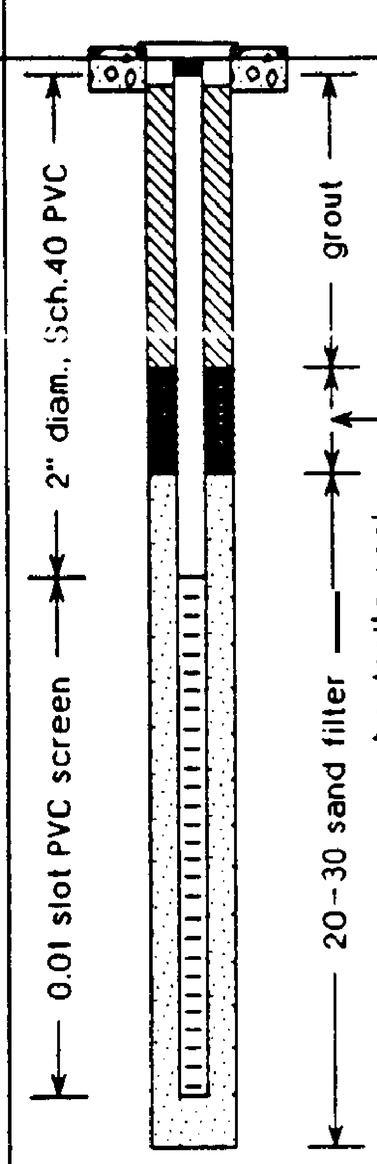
EnSafe/Allen & Hoshall	Monitoring Well 012GS13
Project: *Site 12*	Location: *NAS Pensacola*
Project No.: *0970-00030*	Surface Elevation: *feet msl*
Started at *11:25 on 4-24-95*	TOC Elevation: *16.64 feet msl*
Completed at *on 4-24-95*	Depth to Groundwater: *13.3 feet* Measured: *6-26-95*
Drilling Method: *Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *21 feet*
Geologist: *S. Parker*	Well Screen: *10 to 20 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1		0			Surface Conditions: Rocky soil grass covered. Some fill and road base present.	
			SS-2						
5									
			SS-3		0				
10			SS-4				S?	Shelly sand road base to 4"bls. Tan to orange fine to medium grained sand to 1'bls. Tan to orange fine to medium grained sand, mottled with brown and black and laminated to 3'bls. Tan fine to medium grained sand with orange laminae, 3% heavier minerals and moderately well sorted to 5'bls. Tan to orange laminated sand with 3-5% heavies and black mottling to 8'bls. Tan to brown mottled sand laminated with brown clayey laminae to 10'bls. Tan to orange mottled medium grained laminated sand. Coarser than above sand and well sorted to 12'bls. Clean white fine to medium grained sand to 21'bls.	
15									
20									
25									
30									
35									
40									

Notes:
SS = Split Spoon Sample

Samples Collected;
012S001301
012S001305
012C001305
012S001310
012K001310
012X001310
012S001312

WELL DIAGRAM



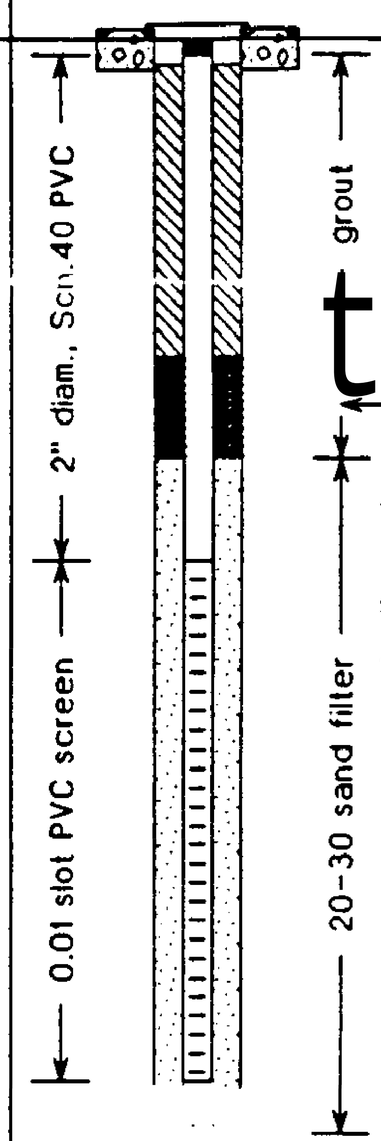
EnSafe/Allen & Hoshall

Monitoring Well 012GS14

Project: *Site 12*	Location: *NAS Pensacola*
Project No.: *0970-00030*	Surface Elevation: *feet msl*
Started at *09:30 on 4-24-95*	TOC Elevation: *16.96 feet msl*
Completed at *10:45 on 4-24-95*	Depth to Groundwater: *13.71 feet* Measured: 6-26-95
Drilling Method: *Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *21 feet*
Geologist: *S. Parker*	Well Screen: *10 to 20 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1		0		GC SC	Surface Conditions: Remnants of asphalt/rocks. 6-8" of asphatt and rack. Brown to orange gravelly clayey sand to 4"bls.	
			SS-2		0		GC SP	Gray to brown clayey stiff sand with some gravel. Hit concrete and asphalt at 2.5'bls.	
5								Dark brown gravel and sand with some clay fill material to 4.5'bls. Rock and brick debris. Tan to orange fine to medium grained sand with 3-5% heavier minerals and large pieces of concrete to 5'bls.	
			SS-3		0				
10			SS-4		0				
15							SP	Tan to Orange to white fine to medium grained laminated sand with 3-5% heavies to 12'bls. White medium grained sand to 21'bls. Wet at 12.5-13'bls.	
20									
25								Notes: SS = Split Spoon Sample	
								Samples Collected: 012S001401 012S001405 012S001410 012S001412	
30									
35									
40									

WELL DIAGRAM



EnSafe/Allen & Hoshall

Monitoring Well 012GS15

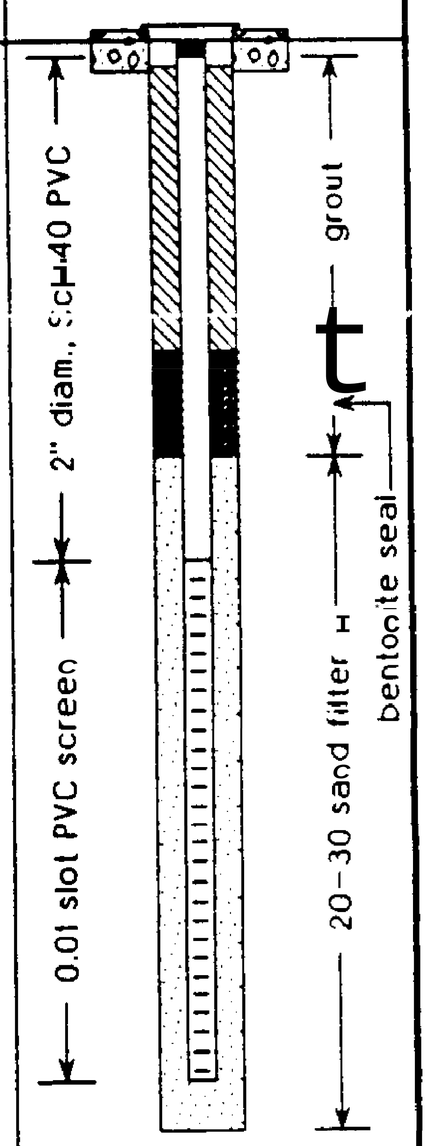
Project: *Site 12*	Location: *NAS Pensacola*
Project No.: *0970-00030*	Surface Elevation: *feet msl*
Started at *15:00 on 4-24-95*	TOC Elevation: *17.17 feet msl*
Completed at *on 4-24-95*	Depth to Groundwater: *13.15 feet* Measured: *6-26-95*
Drilling Method: *Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *21 feet*
Geologist: *S. Parker*	Well Screen: *10 to 20 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1		0		GC SP	**Surface Conditions:** Old asphalt area with rocks and debris. Roadbase/fill material. Shelly gravelly sand to 4"bls. Red clayey sand fill to 10"bls. fan to orange fine to medium grained sand to 1'bls.	
5			SS-2		0				
10			SS-3		0				
			ss-4		0		SP	Tan to orange fine to medium grained laminated sand with 3-5% heavier minerals and mottling prese . to 8.5'bls. Dark gray stiff clayey sand to 9"bls. Brown to tan mottled fine tu medium grained sand to 10.5'bls. White to tan medium grained sand to 21'bls. Clean at 10.5-12'bls.	
15			SS-5						
20									
25									
30									
35									
40									

Notes:
SS = Split Spoon **Sample**

Samples Collected:
012S001501
012S001505
012S001510
012S001512
012S001517-grain size only

WELL DIAGRAM



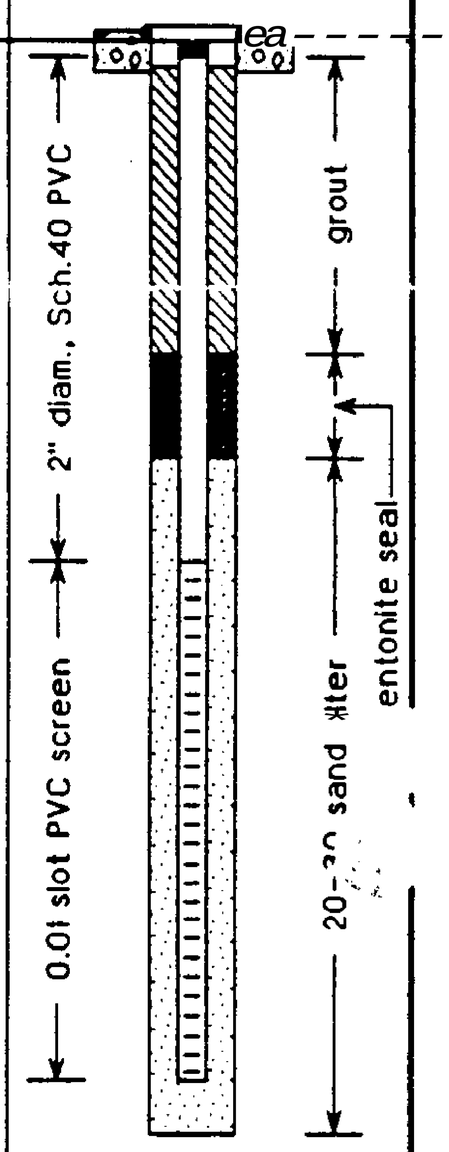
EnSafe/Allen & Hoshall

Monitoring Well 012GS16

Project: *Site 12*	Location: *NAS Pensacola*
Project No.: *0970-00030*	Surface Elevation: *feet msl*
Started at *13:45 on 4-24-95*	TOC Elevation: *17.03 feet msl*
Completed at *on 4-24-95*	Depth to Groundwater: *13.60 feet* Measured: *6-26-95*
Drilling Method: *Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *21 feet*
Geologist: *S. Parker*	Well Screen: *10 to 20 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1		0		GC SM	Surface Conditions: Grass covered gravelly fill/roadbase material. Shelly roadbase to 3"bls. Red clayey sand fill to 5"bls. Tan to orange fine to medium grained sand with gravel present to 1'bls.	
5	4		SS-2		0				
			SS-3		0				
10			SS-4		0		SP	Tan to orange fine to medium grained sand with 3-5% heavier minerals and mottling present to 8.5'bls. Dark gray fine to medium grained sand to 10"bls. Dark gray to light gray fine to medium grained moist sand with clay laminae to 12'bls. Wet at 13'bls. Clean white medium grained sand to 21'bls.	
15									
20									
25								Notes: SS = Split Spoon Sample	
30								Samples Collected: 012S001601, 012S001605, 012S001610, 012S001612	
35									
40									

WELL DIAGRAM



EnSafe/Allen & Hoshall

Boring 012S04

Project: *Site 12*	Location: *NAS Pensacola*
Project No.: *0970-00030*	Geologist: *S. Parker*
Started at *08:12 on 4-19-95*	Surface Elevation:
Completed at *08:35 on 4-19-95*	Depth to Groundwater: Measured:
Drilling Method: *Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *15 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	≈LEV. (ft-msl)
			SS-1		0		GC SM	**Surface Conditions:** 10" concrete **underlain by fill material.** Dark **brown tu** orange fill **and shelly clayey sand** in upper 4"bls. Tan to orange **mottled** fine **to medium grained sand** to 1'bls.	17.3
			SS-2		0				
5									
			SS-3		0		SP	Tan to orange mottled fine to **medium** grained moderately well sorted sand **with orange stringers (laminae) and** heavy **minerals** to **8'bls. Gray** to **dark** gray fine to **medium** grained **sand** with orange mottling to **10'bls.** Soil has stiff crust at **9'bls.** Gray to **brown** fine to **medium** grained **sand** with some orange mottling. Slightly coarser than overlying material. **Wet** at **14'bls.** Becoming light gray **at** the **water table.**	
10									
			SS-4		0				
15									-3.3
20								Notes: SS = Split Spoon Sample Samples Collected: 012S000401 012S000405 012S000410 012S000415	
25									
30									
35									
40									

EnSafe/Allen & Hoshall

Boring 012S07

Project: *Site 12*	Location: *NAS Pensacola*
Project No.: *0970-00030*	Geologist: *S. Parker*
Started at *13:40 on 4-18-95*	Surface Elevation:
Completed at *14:07 on* **4-49-95**	Depth to Groundwater: Measured:
Drilling Method: *Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *15 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1		0		GC	**Surface Conditions: 10"** concrete **underlain by shelly clayey fill material. Orange to brown poorly sorted gravelly clayey sand** fill **material.**	17.3
							GC SC	**Same** fill **material as above** to 3.25'bls.	
5			35-2		0			d=9.13 Tan to **orange mottled** fine **to medium grained sand** moderately well sorted **to** 5'bls. Orange to tan **mottled** fine **to medium** grained moderately well sorted sand with black heavy **minerals** to 10 bls. Tan to orange mottled fine to medium grained **sand** to 15'bls. Moist at 14'bls. Becoming wet at 15'bls. Slightly **coarser** white **sand at the water table.**	5
10			SS-3		0		SP		
15			SS-4		0				3.3
20									
25									
30									
35									
40									

Notes:
SS = Split Spoon **Sample**

Samples Collected:
012S000701
012S000705
012S000710
012S000715

EnSafe/Allen & Hoshall

Boring 012S11

Project: *Site 12*	Location: *NAS Pensacola*
Project No.: *0970-00030*	Geologist: *S. Parker*
Started at *11:45 on 4-20-95*	Surface Elevation:
Completed at *on 4-20-95*	Depth to Groundwater: Measured:
Drilling Method: *Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *15 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1		0		GC SP	surface Conditions: 3" asphalt overlying fill material. Dark brown shelly sand to 3"bls. Orange clayey sand and gravel from 3-5"bls. Tan to orange medium grained mottled sand from 5-8"bls. Dark brown gravelly sand from 8"-12"bls.	16.8
5			SS-2		0				
10			SS-3		0		SP	Orange mottled fine to medium grained sand with 3%heavies to 9'bls. Gray to dark gray sand with clay laminations to 10'bls. Gray to brownish gray mottled sand with up to tcm clay laminae to 12'bls. Moist at 12'bls. Wet at 12.5-13'bls. Clean tan to white medium grained sand from 13-15'bls. Entire interval wet.	
15									2.8
20								Notes: SS = Split Spoon Sample Samples Collected: 012S001101 012S001105 012S001110	
25									
30									
35									
40									

EnSafe/Allen & Hoshall

Boring 012S12

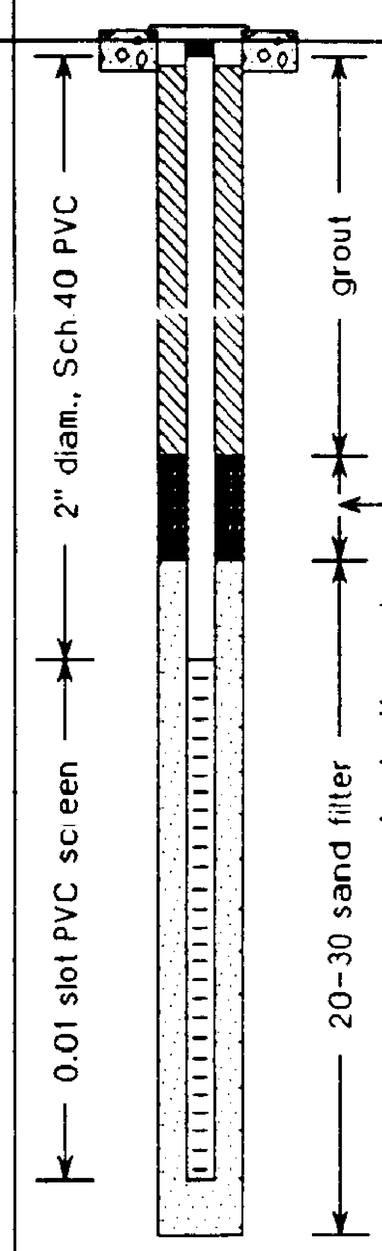
Project: *Site 12*	Location: *NAS Pensacola*
Project No.: *0970-00030*	Geologist: *S. Parker*
Started at *14:00 on 4-20-95*	Surface Elevation:
Completed at *on 4-20-95*	Depth to Groundwater: Measured:
Drilling Method: *Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *12 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1		0		GC SC	Surface Conditions: 3" asphalt. Black tar balls present with fuel smelt. Dark brown to black gravelly sand to 2"bls. Orange clayey sand 2-8"bls. Tan to orange fine to medium grained sand from 8"-12"bls.	6.6
			SS-2		0				
			SS-3						
5			SS-4		0		SP	Tan to orange sand from 1-3'bls. Tan to orange mottled fine to medium grained sand with few laminations and 3-5%heavies to 8'bls. Light gray to tan to orange fine to medium grained sand with brown and orange laminations to 10'bls. Tan to white fine to medium grained sand to 12'bls. Moist at 12'bls. Orange laminations a few mm wide and 3%heavier material.	
			SS-5		0				
10			SS-6						
									5.7
15								Notes: SS = Split Spoon Sample	
								Samples Collected: 012S001101 012S001103 012S001105 012S001107 012S001110 012S001lt2	
20									
25									
30									
35									
40									

EnSafe/Allen & Hoshall	Monitoring Well 012GS01
Project: *Site 12*	Location: *NAS Pensacola*
Project No.: *0970-00030*	Surface Elevation: *feet msl*
Started at *14:50 on 4-20-95*	TOC Elevation: *17.81 feet msl*
Completed at *on*	Depth to Groundwater: *14.33 feet* Measured: *6-26-65*
Drilling Method: *Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *23 feet*
Geologist: *S. Parker*	Well Screen: *12 to 22 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
					0		CL	**Surface Conditions:** 6" concrete. **Red clayey sand** fill to 2'bls.	
5					0				
10			SS-1				SP	Tan to orange fine to medium grained mottled **sand with** few heavies to 10'bls. Becoming slightly **coarser,** laminations of **orange,** slightly **moist** from 10-12'bls. **Same sand** to 14'bls. Wet at 14.2'bls. Clean white medium grained **sand** to 17'bls. Dark **brown** fine to medium **grained** sand to 23'bls.	
15			SS-2						
20									
25								Notes: SS = Split Spoon Sample Samples Collected: 012S000112 012S000115	
30									
35									
40									

WELL DIAGRAM



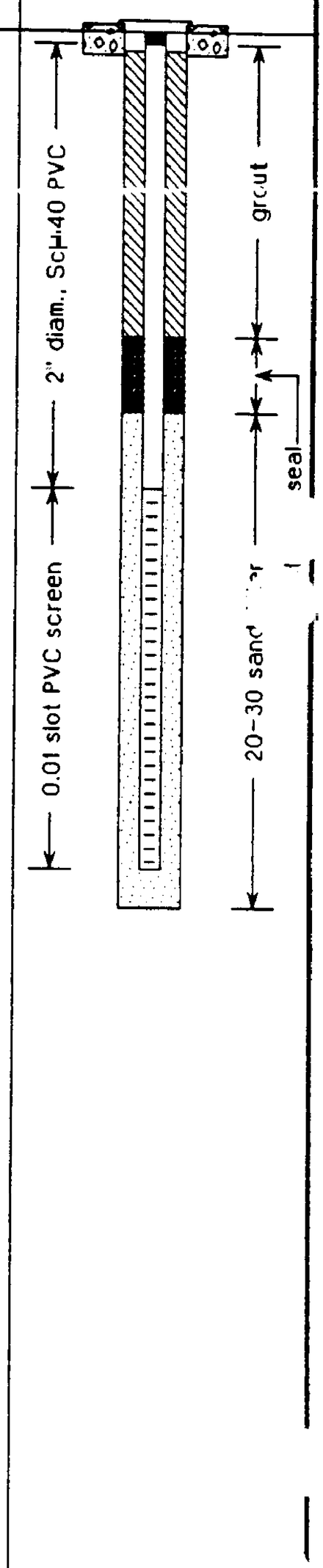
EnSafe/Allen & Hoshall

Monitoring Well 012GS02

Project: *Site 12*	Location: *NAS Pensacola*
Project No.: *0970-00030*	Surface Elevation: *feet msl*
Started at *09:25 on 4-19-95*	TOC Elevation: *18.23 feet msl*
Completed at *on*	Depth to Groundwater: *14.87 feet* Measured: *6-26-95*
Drilling Method: *Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *23 feet*
Geologist: *S. Parker*	Well Screen: *12 to 22 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE #	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1		0		GC	**Surface Conditions: 10" concrete.**	
			SS-2		0		SP	**Dark brown** to **orange shelly sand to 4"bls.** Same **quartz gravel** present. Tan to **orange** mottled fine to **medium** grained **well sorted sand** to 1'bls.	
5									
10									
			SS-3		0		SP	Tan to orange **mottled fine to medium grained** well **sorted sand** with **3-5% heavy minerals and** some orange **laminae** to 8'bls. Becoming white **fine to medium grained sand with few orange stringers.** Some mottling **present and 1-3%** heavy **minerals** to 13'bls. Clean white fine to **medium grained sand** with **trace** heavier **minerals** to 15'bls. **Coarser** than the **above sand. Wet** at 14.5'bls. clean white fine to **medium grained sand** to 23'bls.	
			SS-4		0				
15									
20									
25								**Notes:** **SS** = Split Spoon Sample	
30								Samples Collected: 012S000201 012S000205 012S000210 012S000215	
35									
40									

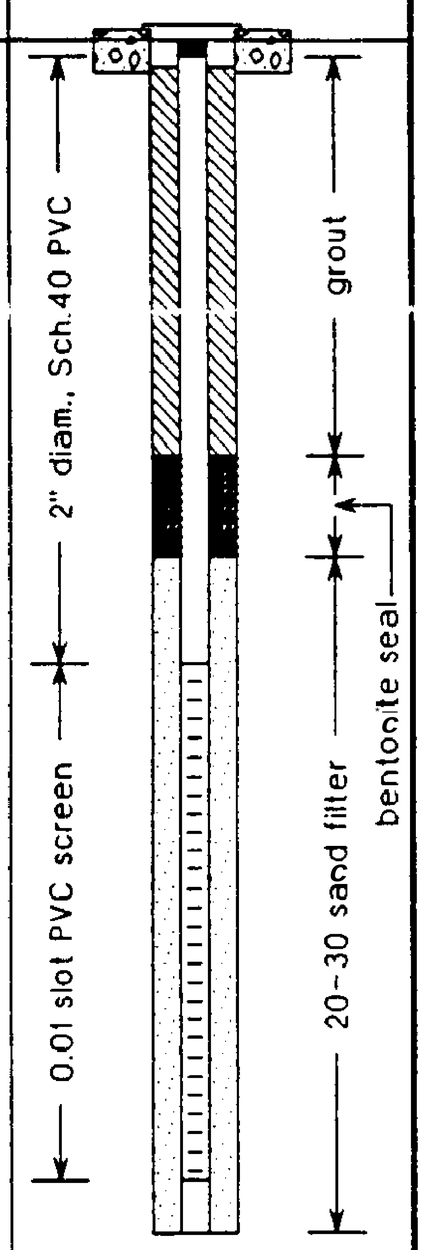
WELL DIAGRAM



EnSafe/Allen & Hoshall	Monitoring Well 012GS03
Project: *Site 12*	Location: *NAS Pensacola*
Project No.: *0970-00030*	Surface Elevation: *feet msl*
Started at *1t15 on 4-19-95*	TOC Elevation: *18.23 feet msl*
Completed at *on*	Depth to Groundwater: *14.68 feet* Measured: *6-26-95*
Drilling Method: *Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *23 feet*
Geologist: *S. Parker*	Well Screen: *12 to 22 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1		0		GC SP	**Surface Conditions:** 10" concrete. **Metal debris in upper 6". Gravel and shelly clayey sand fill material with large quartz pebbles** in upper 4"bls. Tan to orange mottled fine to **medium** grained **well sorted sand** to 1'bls.	
5			SS-2		0				
10			SS-3				SP	Tan to orange fine to **medium grained well sorted sand** with **3-5%** heavy minerals to 10'bls. Same **sand** to 13.5'bls. Clean white fine to **medium** grained **sand** to 23'bls. Coarser **than** the **above sand. Wet at** 14'bls.	
15			SS-4						
20									
25								Notes: SS = Split Spoon Sample Samples Collected: 012S000301 012S000305 012S000310 012S000315	
30									
35									
40									

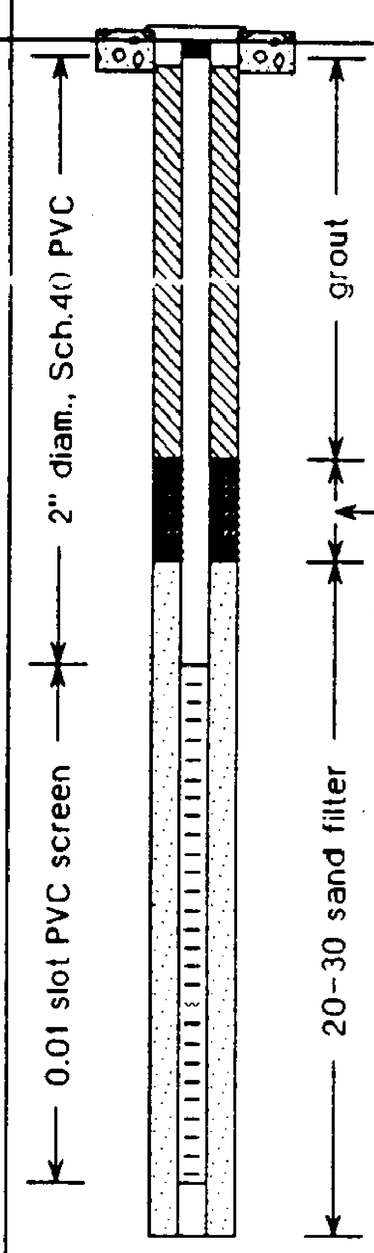
WELL DIAGRAM



EnSafe/Allen & Hoshall	Monitoring Well 012GS05
Project: *Site 12*	Location: *NAS Pensacola*
Project No: *0970-00030*	Surface Elevation: *feet msl*
Started at *13:50 on 4-19-95*	TOC Elevation: *18.21 feet msl*
Completed at *14:15 on*	Depth to Groundwater: *14.8 feet* Measured: *6-26-95*
Drilling Method: *Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *23 feet*
Geologist: *S. Parker*	Well Screen: *12 to 22 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV (ft-msl)
			SS-1		0		GC SM	**Surface Conditions:** 10" concrete. **Dark brown gravelly and shelly** clayey **sand fill material in upper 4"bls.** Tan to **orange mottled** fine to **medium grained well sorted sand with** orange stringers **to 1'bls.**	
			SS-2		0		SP	Tan to orange **mottled fine** to **medium** grained well **sorted sand** with **1-3% heavy minerals and laminated with** orange **stringers+ to 8.5'bls.**	
5									
			SS-3				SC	Gray to brown **stiff clayey sand** to **sandy** clay to 9.5'bls. **Sharp contrast 2"** organic rich at contact. **low** moisture content,	
10							SP SC	**Tan** to **orange** to **brown** fine to **medium grained sand laminated with orange and brown stringers** to 13.4'bls. **1-2cm clayey sand** layer at contact.	
			SS-4						
15									
20							SP	**White** fine to **medium grained sand** to **17'bls.** Coarser than the **above sand, Wet** at **14.5'bls.** **Dark brown** fine to **medium grained sand** to **23'bls.**	
25								Notes: *SS* = Split Spoon Sample	
30								**Samples Collected;** 012S000501 012S000505 012S000510 012S000515	
35									
40									

WELL DIAGRAM



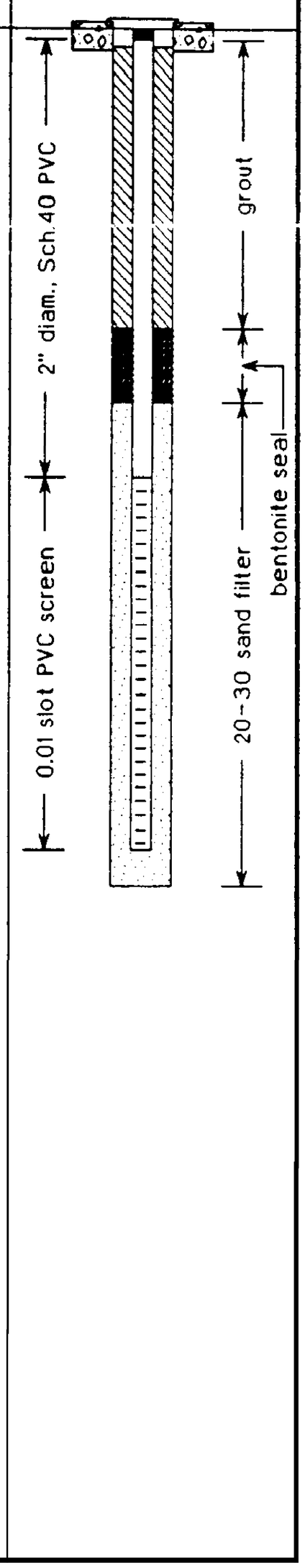
EnSafe/Allen & Hoshall

Monitoring Well 012GS06

Project: *Site 12*	Location: *NAS Pensacola*
Project No.: *0970-00030*	Surface Elevation: *feet msl*
Started at *10:30 on 4-20-95*	TOC Elevation: *18.22 feet msl*
Completed at *on*	Depth to Groundwater: *14.9 feet* Measured: *6-26-95*
Drilling Method: *Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *23 feet*
Geologist: *S. Parker*	Well Screen: *12 to 22 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1		0		GC SM	**Surface Conditions:** 10" concrete. Dark brown shelly sandy fill material in upper 3"bls. Tan fine to medium grained sand with brown laminae to 1'bls.	
5			SS-2		0				
10			SS-3		0				
							S?	**fan** to orange mottled fine to **medium grained** moderately well **sorted sand with lamination and 1-3%** heavy minerals to 8'bls. 'fan to **brown** fine **to medium** grained **sand with** few **laminae and** few **heavier** minerals to 10'bls. Tan **to buff white clear** fine tu **medium** grained **sand** to 15'bls. Slightly coarser than overlying **material.** Wet at 14.5'bls. Brown **medium** grained **sand to** 23'bls.	
15			SS-4		0				
20									
25								Notes: **SS** = Split Spoon Sample Samples Collected: 012S000601 012S000605 012S000610 012S000615	
30									
35									
40									

WELL DIAGRAM



EnSafe/Allen & Hoshall

Monitoring Well 012GS08

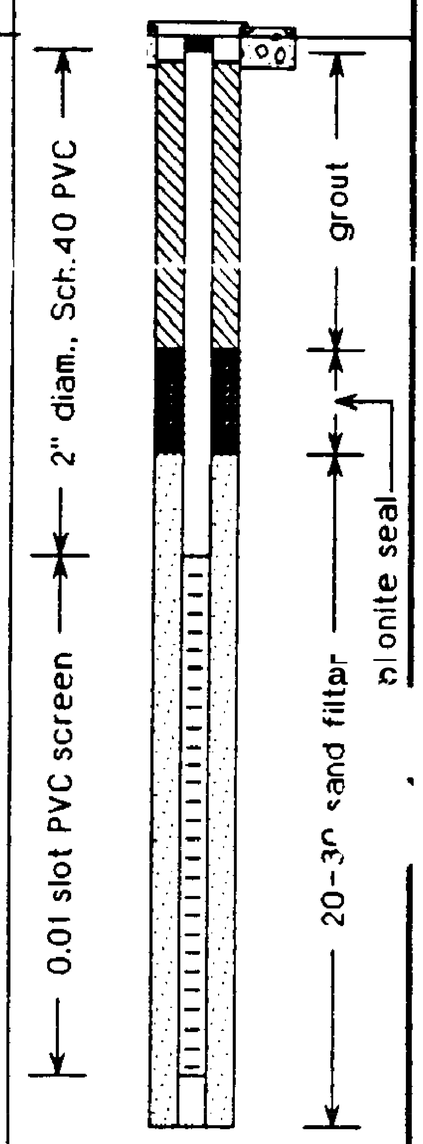
Project: *Site 12*	Location: *NAS Pensacola*
Project No.: *0970-00030*	Surface Elevation: *feet msl*
Started at *1420 on 4-25-95*	TOC Elevation: *18.34 feet msl*
Completed at *on*	Depth to Groundwater: *14.32 feet* Measured: *6-26-95*
Drilling Method: *Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *21 feet*
Geologist: *S. Parker*	Well Screen: *10 to 20 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SS NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1		0		SC	**Surface Conditions: 10" concrete.** Brown, tan **and orange mottled fine** to **medium grained clayey sand with** laminae to 1'bls.	
			SS-2		0		SP SM	**Mottled** orange, tan **and brown** fine **to medium** grained silty sand with 3% heavies, few gravel pieces to 5'bls.	
5									
			SS-3						
10									
			SS-4				SP	**Tan** to orange **mottled** fine to **medium** grained **sand with lamination and** 3%**heavy minerals to** 8'bls. **Tan** to **gray** fine **to medium grained laminated sand** to 10'bls. **Gray** to **white** fine to **medium grained sand** to 14'bls. Wet at 13'bls. White **medium grained moderately well sorted sand** to 17'bls. **White medium grained sand with** trace **heavies** to 21'bls.	
15									
			SS-5						
20									
25									
30									
35									
40									

Notes:
SS = Split Spoon Sample

Samples Collected:
012S000801
012S000805
012C000805
012S000810
012K000810
012X000810
012S000814
012S000817-grain size only

WELL DIAGRAM



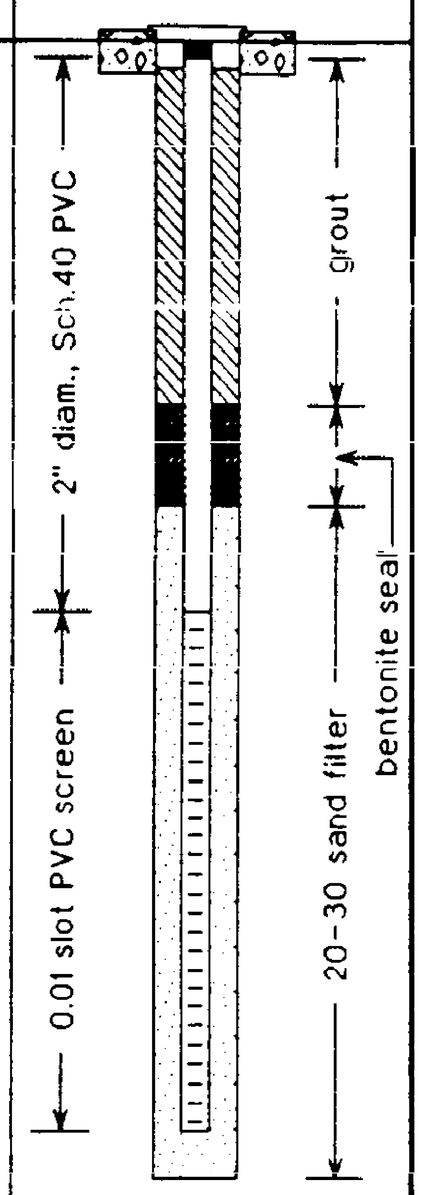
EnSafe/Allen & Hoshall

Monitoring Well 012GS09

Project: *Site 12*	Location: *NAS Pensacola*
Project No.: *0970-00030*	Surface Elevation: feet *msl*
Started at *08:35 on 4-20-95*	TOC Elevation: *16.85* feet *msl*
Completed at *on*	Depth to Groundwater: *13.4 feet* Measured: 6-26-95
Drilling Method: *Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *22 feet*
Geologist: *S. Parker*	Well Screen: *11 to 21 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1		0		GC GM	**Surface Conditions:** 10" concrete, **Dark brown** to orange gravelly **sand** with **rock debris present** to 3"bls. Tan to **orange** fine to **medium** grained **sand** to 1'bls.	
5			SS-2				SP	Mottled tan to orange fine to **medium** grained sand with some dark brown stringers, few gravel pieces to 5'bls. Tan to orange mottled fine to medium grained sand with orange laminae **and 1-3%** heavier minerals.	
10			SS-3		0		SP SC		
15			SS-4				SP	White to light gray fine to medium grained **sand** with gray stringers of clay **and** laminae to 10'bls. **Moist** at 10'bls. White fine to **medium** grained **sand** to 15'bls. Coarser than the **above sand.** **Wet** in entire interval. Clean white fine to medium grained **sand** to 22'bls.	
20									
25								Notes; SS = Split Spoon Sample	
30								Samples Collected: 012S000901 012S000905 012C000905 012S000910 012K000910 012X000910	
35									
40									

WELL DIAGRAM



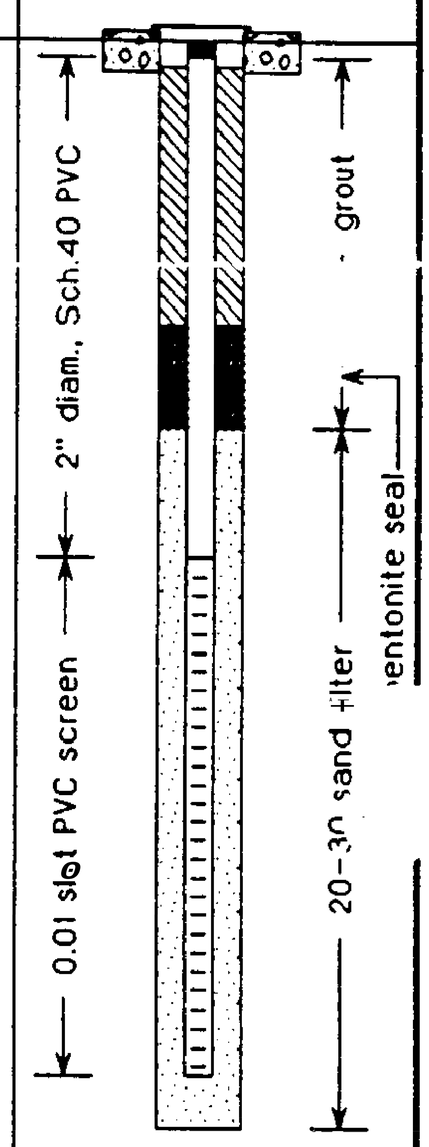
EnSafe/Allen & Hoshall

Monitoring Well 012GS10

Project: *Site 12*	Location: *NAS Pensacola*
Project No.: *0970-00030*	Surface Elevation: *feet msl*
Started at *08:50 on 4-25-95*	TOC Elevation: *17.04 feet msl*
Completed at *09:45 on 4-25-95*	Depth to Groundwater: *13.55 feet* Measured: *6-26-95*
Drilling Method: *Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *21 feet*
Geologist: *S. Parker*	Well Screen: *10 to 20 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC OG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1		0			**Surface Conditions: Gravelly soil with shell material-road base,** Shelly **silty sand fill material or road base** to 1'bls.	
5			SS-2						
10			SS-3		0				
			SS-4				SP	Tan to orange fine **to medium** grained **sand,** mottled **brawn with** 3% **heavies** to **8.5'bls.** Gray to tan **medium grained sand** with **brown laminae** to 10'bls. Coarser than **above. Gray** to tan **medium grained sand laminated with brown and orange to 12'bls. Moist at base.** Clean **white medium grained sand** to 21'bls.	
15									
20									
25								Notes: **SS** = Split Spoon Sample	
30								**Samples** Collected: 012S001001 012S001005 012S001010 012S001012	
35									
40									

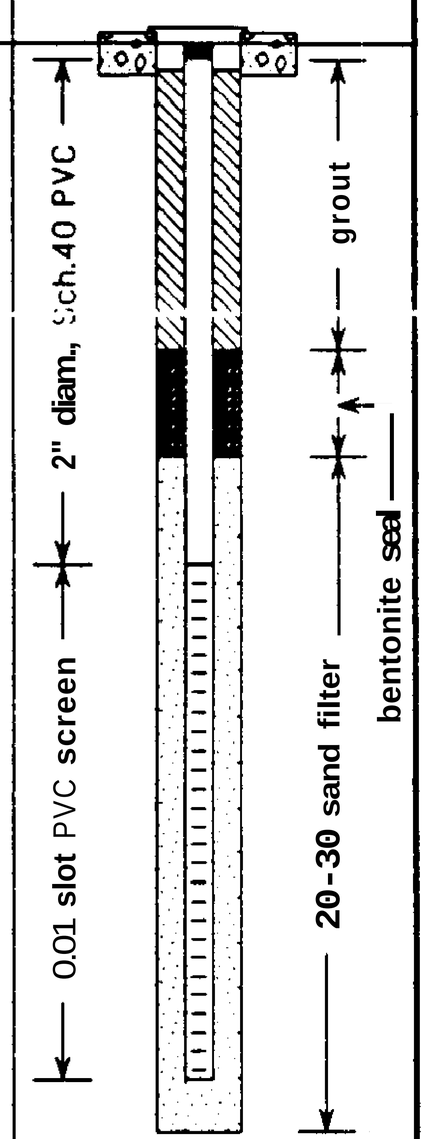
WELL DIAGRAM



EnSafe/Allen & Hoshall	Monitoring Well 012GS13
Project: *Site 12*	Location: *NAS Pensacola*
Project No.: *0970-00030*	Surface Elevation: *feet msl*
Started at *1125 on 4-24-95*	TOC Elevation: *16.64 feet msl*
Completed at *on 4-24-95*	Depth to Groundwater: *13.3 feet* Measured: *6-26-95*
Drilling Method: *Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *21 feet*
Geologist: *S. Parker*	Well Screen: *10 to 20 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1		0			Surface Conditions: Rocky soil grass covered. Some fill and road base present.	
			SS-2						
5									
			SS-3		0				
10			SS-4				SP	Shelly sand road base to 4"bls. Tan to orange fine to medium grained sand to 1'bls. Tan to orange fine to medium grained sand, mottled with brown and black and laminated to 3'bls. Tan fine to medium grained sand with orange laminae, 3% heavier minerals and moderately well sorted to 5'bls. Tan to orange laminated sand with 3-5% heavies and black mottling to 8'bls. Tan to brown mottled sand laminated with brown clayey laminae to 10'bls. Tan to orange mottled medium grained laminated sand. Coarser than above sand and well sorted to 12'bls. Clean white fine o medium grained sand to 21'bls.	
15									
20									
25								Notes: SS = Split Spoon Sample Samples Collected: 012S001301 012S001305 012C001305 012S001310 012K001310 012X001310 012S001312	
30									
35									
40									

WELL DIAGRAM



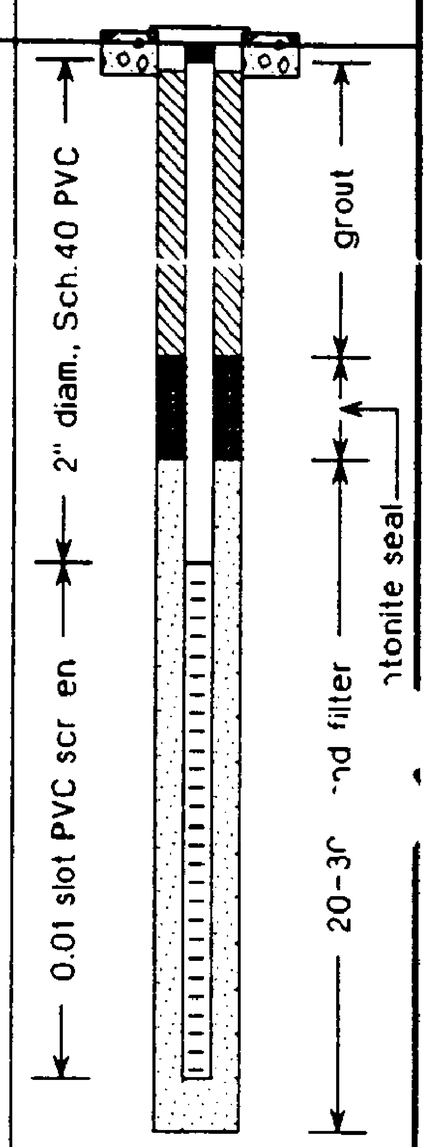
EnSafe/Allen & Hoshall

Monitoring Well 012GS14

Project: *Site 12*	Location: *NAS Pensacola*
Project No.: *0970-00030*	Surface Elevation: *feet msl*
Started at *09:30 on 4-24-95*	TOC Elevation: *16.96 feet msl*
Completed at *10:45 on 4-24-95*	Depth to Groundwater: *13.71 feet* Measured: *6-26-95*
Drilling Method: *Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *21 feet*
Geologist: *S. Parker*	Well Screen: *10 to 20 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1		0		GC SC	**Surface Conditions: Remnants of asphalt/rocks. 6-8" of asphalt and rock.** Brown to orange **gravelly** clayey **sand to 4"bls.**	
			SS-2		0		GC SP	**Gray to brown** clayey stiff **sand with some** gravel. Hit concrete and asphalt at 2.5'bls.	
5								Dark **brown** gravel **and sand with some** clay fill material to **4.5'bls. Rock and brick debris.** Tan to orange fine to **medium grained sand** with **3-5% heavier minerals and large pieces** of concrete to 5'bls.	
			SS-3		0				
10			SS-4		0				
15							SP	**Tan to orange** to **white** fine **to medium** grained **laminated sand with 3-5% heavies** to 12'bls. **White medium** grained **sand** to 21'bls. Wet at 12.5-13'bls.	
20									
25								**Notes:** SS = Split Spoon Sample	
								Samples Collected: 012S001401 012S001405 012S001410 012S001412	
30									
35									
40									

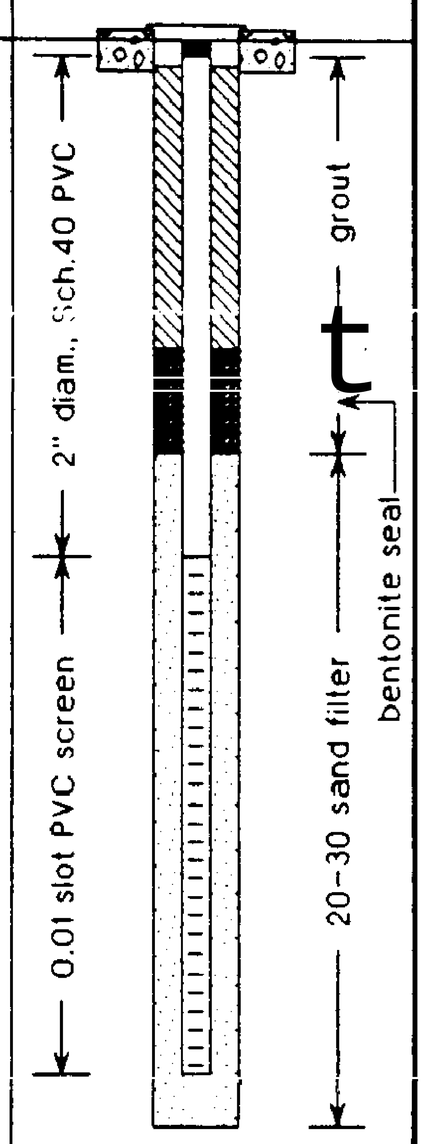
WELL DIAGRAM



EnSafe/Allen & Hoshall	Monitoring Well 012GS15
Project: *Site 12*	Location: *NAS Pensacola*
Project No.: *0970-00030*	Surface Elevation: *feet msl*
Started at *15:00 on* **4-24-95**	TOC Elevation: *17.17* feet *msl*
Completed at *on 4-24-95*	Depth to Groundwater: *13.15 feet* Measured: *6-26-95*
Drilling Method: *Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: **21** feet
Geologist: *S. Parker*	Well Screen: *10 to 20 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1		0		GC SP	Surface **Conditions: Old asphalt area with rocks and debris. Roadbase/fill material.** Shelly **gravelly sand to 4"bls. Red** clayey **sand** filt to 10"bls. Tan to orange fine to **medium grained sand** to 1'bls.	
			SS-2		0				
5									
			SS-3		0				
10			SS-4		0		SP	Tan to orange fine to medium grained laminated **sand** with **3-5% heavier minerals and** mottling present to 8.5'bls. Dark gray **stiff** clayey **sand** to 9"bls. Brown to tan mottled fine to medium grained **sand to** 10.5'bls. White to tan **medium grained sand** to 21'bls. Clean at 10.5-12'bls.	
15			SS-5						
20									
25								Notes: SS = Split Spoon Sample	
30								**Samples** Collected: 012S001501 012S001505 012S001510 012S001512 012S001517-grain size only	
35									
40									

WELL DIAGRAM



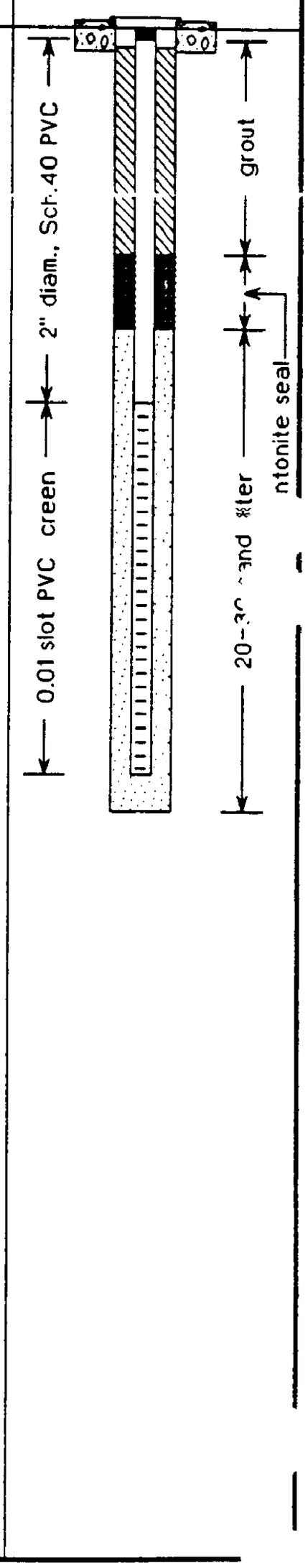
EnSafe/Allen & Hoshall

Monitoring Well 012GS16

Project: *Site 12*	Location: *NAS Pensacola*
Project No.: *0970-00030*	Surface Elevation: *feet msl*
Started at *13:45 on 4-24-95*	TOC Elevation: *17.03 feet msl*
Completed at *on 4-24-95*	Depth to Groundwater: *13.60 feet* Measured: *6-26-95*
Drilling Method: *Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *21 feet*
Geologist: *S. Parker*	Well Screen: *10 to 20 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1		0		GC SM	**Surface Conditions: Grass covered gravelly fill/roadbase material.** Shelly **roadbase to 3"bls. Red** clayey **sand** fill to **5"bls. Tan** to orange **fine** to **medium** grained **sand** with gravel present to 1'bls.	
			SS-2		0				
5									
			SS-3		0				
10			SS-4		0		SP	**Tan to orange fine to medium grained sand** with 3-5% heavier **minerals and** mottling present to 8.5'bls. **Dark gray** fine **to medium grained sand to** 10"bls. **Dark** gray **to** light gray fine to **medium grained moist sand with** clay laminae **to** 12'bls. **Wet** at 13'bls. Clean white **medium** grained **sand** to 21'bls.	
15									
20									
25								**Notes:** **SS** = Split Spoon Sample	
								Samples Collected: 012S001601 012S001605 012S001610 012S001612	
30									
35									
40									

WELL DIAGRAM



EnSafe/Allen & Hoshall

Boring 012S04

Project: *Site 12*	Location: *NAS Pensacola*
Project No.: *0970-00030*	Geologist: *S. Parker*
Started at *08:12 on 4-19-95*	Surface Elevation:
Completed at *08:35 on 4-19-95*	Depth to Groundwater: Measured:
Drilling Method: *Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *15 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1		0		GC SM	Surface Conditions: 10" concrete underlain by fill material. Dark brown to orange fill and shelly clayey sand in upper 4"bls. Tan to orange mottled fine to medium grained sand to 1'bls.	473
5			SS-2		0				
10			ss-3		0		SP	Tan to orange mottled fine to medium grained moderately well sorted sand with orange stringers (laminae) and heavy minerals to 8'bls. Gray to dark gray fine tu medium grained sand with orange mottling to 10'bls. Soil has stiff crust at 9'bls. Gray to brown fine to medium grained sand with some orange mottling. Slightly coarser than overlying material. Wet at 14'bls. Becoming tight gray at the water table.	
15			ss-4		0				3.3
20								Notes: SS = Split Spoon Sample Samples Collected: 012S000401 012S000405 012S000410 012S000415	
25									
30									
35									
40									

EnSafe/Allen & Hoshall

Boring 012S07

Project: *Site 12*	Location: *NAS Pensacola*
Project No.: *0970-00030*	Geologist: *S. Parker*
Started at *13:40 on 4-18-95*	Surface Elevation:
Completed at *14:07 on 4-18-95*	Depth to Groundwater: Measured:
Drilling Method: *Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *15 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	AMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1		0		GC	**Surface Conditions; 10"** concrete **underlain by shelly clayey** fill **material.**	
							GC/SC	**Orange to brown poorly sorted** gravelly **clayey sand fill** material.	17.3
								Same **fill material as above to 3.25'bls.**	15
5			SS-2		0			d=9.13 Tan to **orange** mottled fine to **medium grained sand** moderately **well sorted** to 5'bls. Orange to tan **mottled** fine to **medium grained moderately** well sorted sand with black heavy minerals to 10'bls. Tan to orange mottled fine to **medium** grained **sand** to 15'bls. Moist at 14'bls. Becoming wet at 15'bls. Slightly coarser white **sand** at the **wafer table.**	
10			SS-3		0		SP		
15			SS-4		0				3.3
20								**Nates:** SS = Split **Spoon** Sample **Samples** Collected; 012S000701 012S000705 012S000710 012S000715	
25									
30									
35									
40									

EnSafe/Allen & Hoshall	Boring 012S11
Project: *Site 12*	Location: *NAS Pensacola*
Project No.: *0970-00030*	Geologist: *S. Parker*
Started at *11:45 on 4-20-95*	Surface Elevation:
Completed at *on 4-20-95*	Depth to Groundwater: Measured:
Drilling Method: *Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *15 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1		0		GC SP	Surface Conditions: 3" asphalt overlying fill material. Dark brown shelly sand to 3"bls. Orange clayey sand and gravel from 3-5"bls. Tan to orange medium grained mottled sand from 5-8"bls. Dark brown gravelly sand from 8"-12"bls.	16.8
			SS-2		0				
5									
			SS-3		0		SP	Orange mottled fine to medium grained sand with 3% heavies to 9'bls. Gray to dark gray sand with clay laminations to 10'bls. Gray to brownish gray mottled sand with up to 1cm clay laminae to 12'bls. Moist at 12'bls. Wet at 12.5-13'bls. Clean tan to white medium grained sand from 13-15'bls. Entire interval wet.	
10									
15									2.8
20								**Notes:** SS = Split Spoon Sample **Samples Collected:** 012S001101 012S001105 012S001110	
25									
30									
35									
40									

EnSafe/Allen & Hoshall

Boring 012S12

Project: *Site 12*	Location: *NAS Pensacola*
Project No.: *0970-00030*	Geologist: *S. Parker*
Started at *14:00 on 4-20-95*	Surface Elevation:
Completed at *on 4-20-95*	Depth to Groundwater: Measured:
Drilling Method: *Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *12 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1		0		GC	Surface Conditions: 3" asphalt. Black tar balls present with fuel smell.	16.6
			SS-2		0		GC	Dark brown to black gravelly sand to 2"bls. Orange clayey sand 2-8"bls. Tan to orange fine tu medium grained sand from 8"-12"bls.	
			SS-3						
5			SS-4		0		SP	Tan to orange sand from 1-3'bls. Tan to orange mottled fine to medium grained sand with few laminations and 3-5% heavies to 8'bls. tight gray to tan to orange fine to medium grained sand with brown and orange laminations to 10'bls. Tan to white fine to medium grained sand to 12'bls. Moist at 12'bls. Orange laminations a few mm wide and 3% heavier material.	
			SS-5		0				
10			SS-6						5.7
15									
20									
25									
30									
35									
40									

Notes:
SS = Split Spoon Sample

Samples Collected:
012S001101
012S001103
012S001105
012S001107
012S001110
012S001112

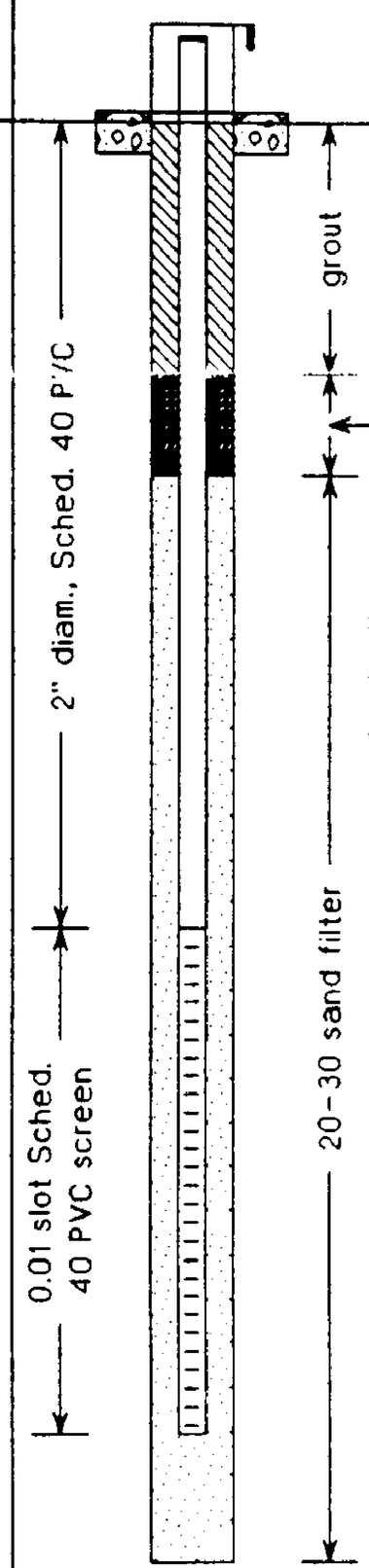
EnSafe/Allen & Hoshall

Monitoring Well 25GS01

Project: *Site 25*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *24.24 feet msl*
Started at *0815 on 6-11-93*	TOC Elevation: *26.24 feet msl*
Completed at *1125 on 6-11-93*	Depth to Groundwater: *20.92* feet Measured: *4/02/96*
Drilling Method: *4.25 ID Hollow Stem Auger*	Groundwater Elevation: *5.32 feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *28.5 feet*
Geologist: *M. Lucking*	Well Screen: *16 to 26 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
					0			Tan, dry **Sand,**	
					NR			**Medium** tan, moist **Sand.**	
5					4			Medium tan, very moist Sand.	
					30			Medium tan, fine **Sand.**	
					3			Medium tan, fine Sand, very moist, gray mottling, distinct tan to whitish-tan intervals,	
10					<1			Medium reddish-tan Sand with mottling, **bleached** with depth.	
					0			Medium tan **Sand** with mottled **reddish-tan and** gray areas.	
15							SP	Sand, tan grading to **whitish-tan** in lower part, very moist,	
20								Whitish-tan Sand, moist at lower portion of interval, wet at 19.5 **bgs.**	
25								Fine, white **Sand.**	
								End of boring at 28.5'bls.	
									-4.3
30								Notes: SS = Split Spoon	
35								**Samples** Collected: 025S000100 - plus gamma 025S000101 025S000102 - plus gamma 025S000104 - plus gamma 025S000106 025C000106 025S000108 025C000108 025S000110 - gamma only	
40									

WELL DIAGRAM



EnSafe/Allen & Hoshall

Monitoring Well 25GS02

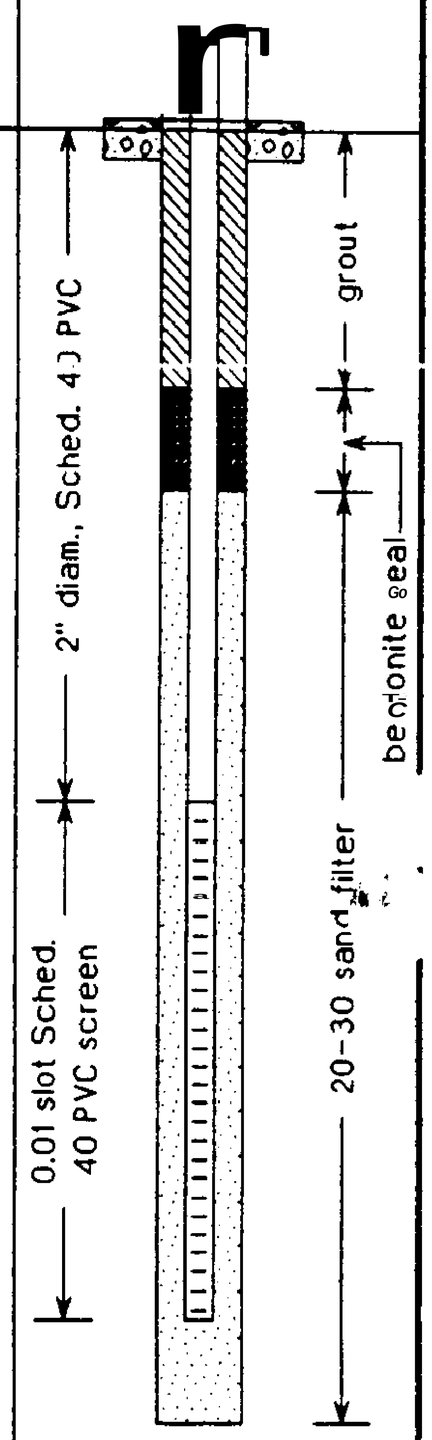
Project: *Site 25*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *22.80 feet msl*
Started at *1150 on 6-14-93*	TOC Elevation: *24.74 feet msl*
Completed at *1315 on 6-14-93*	Depth to Groundwater: *17.10 feet* Measured: *4/02/96*
Drilling Method: *4.25-inch ID Hollow Stem Auger*	Groundwater Elevation: *7.64 feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *25.0 feet*
Geologist: *M. Lucking*	Well Screen: *13 to 23 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1		0			Tan, **dry Sand.**	
			SS-2		0			Fine, **medium tan Sand,** moist,	
5									
10							SP		
15									
20			SS-3					Fine, **white Sand,** clean.	
25			SS-4					**White, clean Sand.**	
								End of boring at 25.0'bls.	-22
30									
35									
40									

Notes:
SS = Split spoon

Samples Collected:
025S000200 - gamma only
025S000202
025S000204
025C000204

ELL DIAGRAM



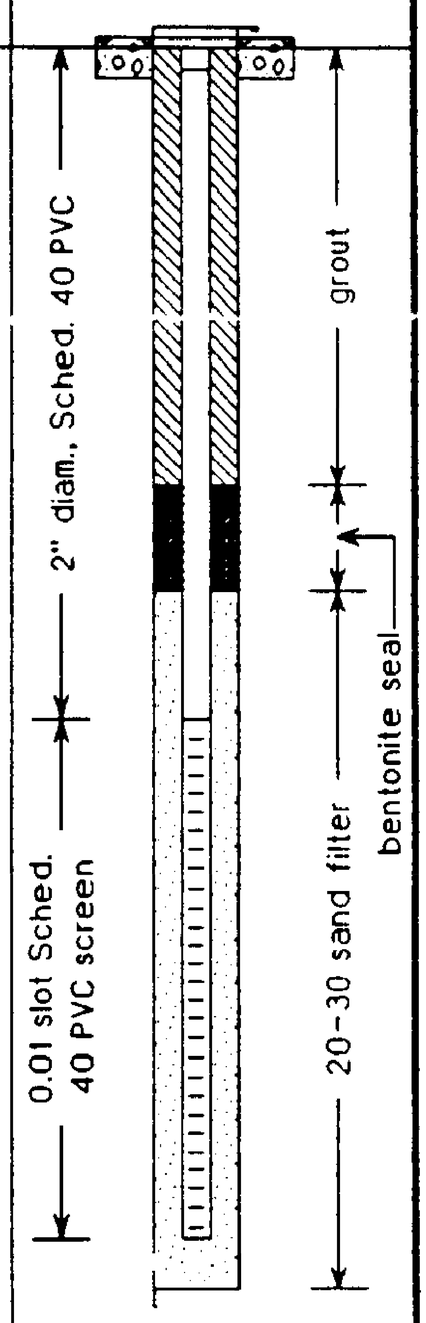
EnSafe/Allen & Hoshall	Monitoring Well 25GS03
Project: *Site 25*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *20.64 feet msl*
Started at *1340 on* 7-01-93	TOC Elevation: *20.23 feet msl*
Completed at *1430 on 7-01-93*	Depth to Groundwater: *13.51 feet* Measured: *4/02/96*
Drilling Method: *4.25-inch ID Hollow Stem Auger*	Groundwater Elevation: *6.72 feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *24.0 feet*
Geologist: *M. Lucking*	Well Screen *13 to 23 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1		It			Fine to **medium Sand.**	
			SS-2		3.7			fine **Sand, yell9owish-orange,** trace **roots, 1% heavy minerals.**	
5		A	SS-3		12			Fine to medium Sand, minor coarse gravel, dark brown, reddish-orange clay with asphalt fragments.	
		A	SS-4		25		SP	**Fine** to **medium Sand, yellowish-orange, 1%** heavy **minerals.**	
		A	SS-5		14				
10			SS-6		6			Fine to **medium Sand,** light tan to **yellowish-orange, red** mottling.	
			SS-7		30			Fine to **medium Sand,** yellowish-orange to light tan, **dark gray** mottling	
15			SS-8					Fine to **medium Sand,** light **tan** to **white, dark** mottling, **trace** heavy minerals.	-4.6
								Sand, light tan to white, tan to **dark** gray mottling.	
20									
								End of boring at 24.0'bls.	
25									
30									
35									
40									

Notes:
SS = Split Spoon

Samples Collected:
025S000400 - gamma only
025S000402 - **plus** gamma
025S000404
025S000406
025S000408
025K000408
025X000408
025S000410
025K000410
025x000410
025S0004t2
025S000414

WELL DIAGRAM



EnSafe/Allen & Hoshall

Monitoring Well 25GS04

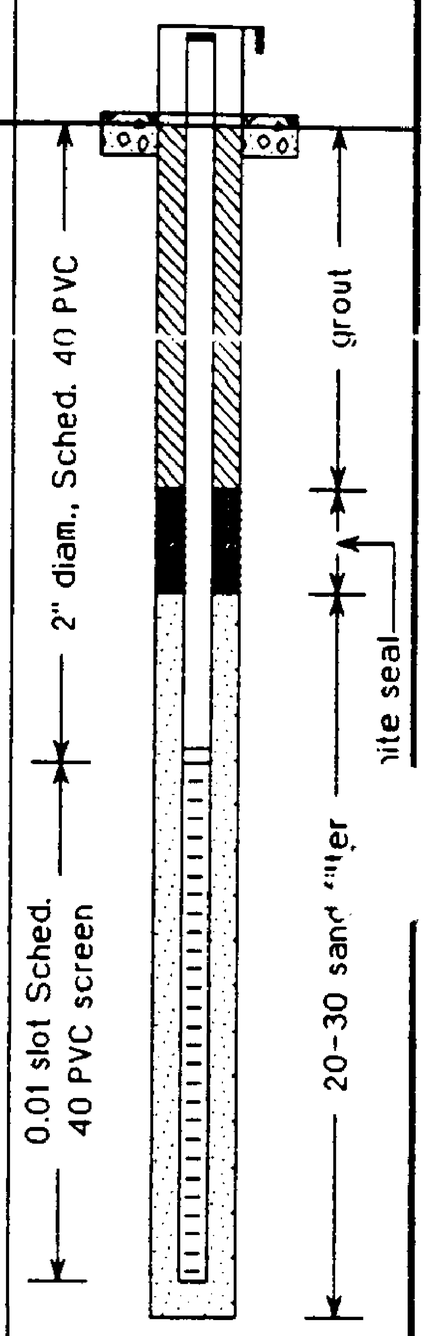
Project: *Site 25*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *feet msl*
Started at *1030 on 7-14-93*	TOC Elevation: *feet msl*
Completed at *1225 on 7-14-93*	Depth to Groundwater: *feet* Measured: */ /96*
Drilling Method: *4.25-inch ID Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *23.0 feet*
Geologist: *M. Lucking*	Well Screen: *12.3 to 22.3 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1		0.0			Tan Sand,	
			SS-2		0.0			Tan Sand, trace of heavy minerals.	
5			SS-3		0.0			Tan Sand.	
			SS-4		0.0			Yellowish-orange fine to medium Sand, dark brown mottling at 6.5 feet bls, 1 to 2% heavy minerals,	
10			SS-5		0.0		SP	light tan Sand, Light tan to white Sand,	
15									
20			SS-6		0.0			Dark brown Sand,	
25								nd of boring at 23.0' bls.	
30									
35									
40									

Notes:
SS = Split Spoon

Samples Collected:
0255000700 - gamma only
025S000702 - plus gamma
025C000702
025S000704
025S000706

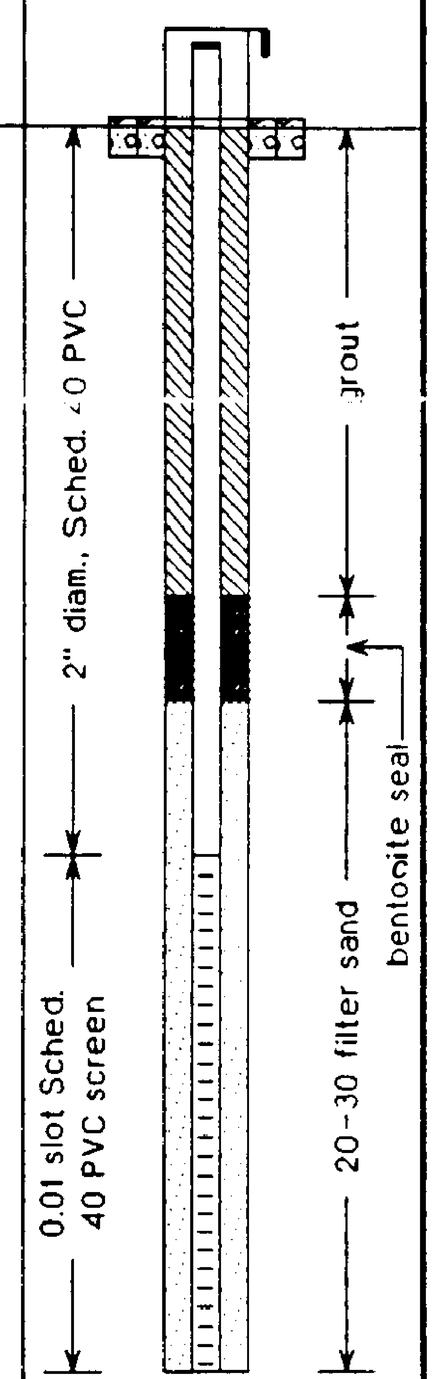
WELL DIAGRAM



EnSafe/Allen & Hoshall	Monitoring Well 25GS05
Project: *Site 25*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *feet msl*
Started at *1050 on 7-15-93*	TOC Elevation: *feet msl*
Completed at *1235 on 7-15-93*	Depth to Groundwater: *feet* Measured:
Drilling Method: *4.25-inch ID Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *24.0 feet*
Geologist: *L. Hughes*	Well Screen: *14* to *24 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1		0.0			Silty **Sand, dark brown organic/**plant **matter,** orange-tan, **fine, well-rounded to subrounded, 1%** heavy **minerals.**	
			SS-2		0.0			Poorly **graded Sand, orange-tan,** fine, **subrounded.**	
5			SS-3		12.7			Light tan **Sand,** fine, poorly **graded, subrounded.**	
			SS-4		0.0			Poorly **graded** Sand, light tan, fine, **subrounded,** 1% heavy **minerals.**	
			SS-5		0.0			Poorly **graded** Sand, **distinct** gray mottles, bleached tan **sand,** fine, **subrounded, 1-2% heavy** minerals.	
10			SS-6		0.0		SP	Poorly **graded Sand,** moist, white, much less heavy mineral,	
			SS-7		0.0			Poorly **graded Sand, moist,** white, fine, **subrounded, <<1% heavy** mineral.	
15			SS-8		0.0			Poorly **graded Sand, white,** wet, fine, **well** to **subrounded,** very few heavy minerals.	
			SS-9		0.0			No recovery.	
			SS-10		0.0			No recovery.	
20			SS-11		0.0			(No **samples)** Silty **Sand, slight silty Sand** with **dark brown** water, some **silty Sand lenses** are **dirty** tan, fine, **subrounded, sand,**	
25								**End** of boring at 22.0' bls.	
30								Notes: SS = Split Spoon Samples Collected: 025S001000 - gamma only 025S001002 025S001004 025S001006 025S001008 025S001010 025S001012 025S001014 025S001016	
35									
40									

WELL DIAGRAM



EnSafe/Allen & Hoshall

Monitoring Well 25GS06

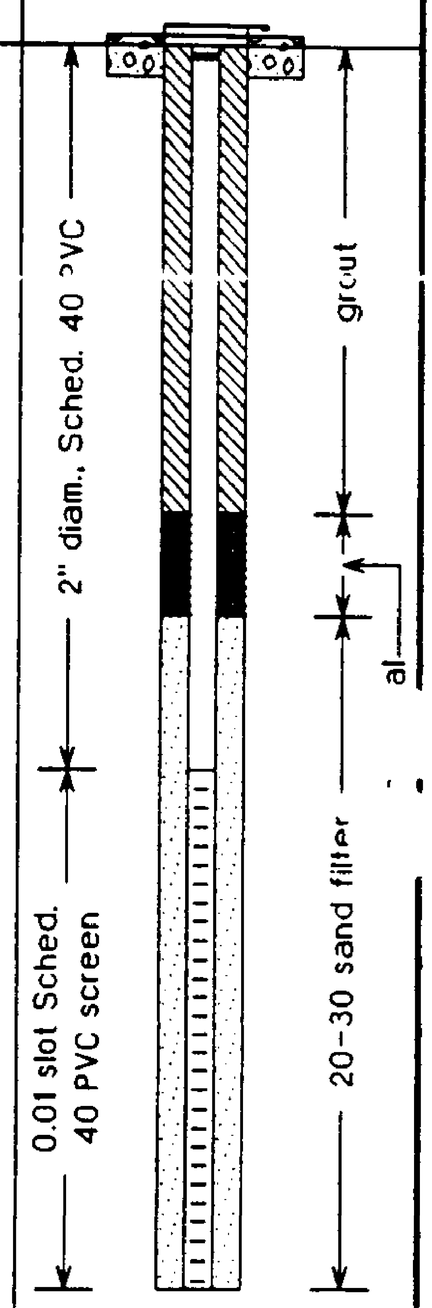
Project: *Site 25*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *20.81 feet msl*
Started at *0900 on 7-16-93*	TOC Elevation: *20.56 feet msl*
Completed at *1015 on 7-16-93*	Depth to Groundwater: *feet* Measured: *//96*
Drilling Method: *4.25-inch ID Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *24.0 feet*
Geologist: *L. Hughes*	Well Screen: *14 to 24 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1	100				**Silty Sand, fine to medium, dark brown, poorly graded,** orange-tan **subrounded**, organic-rich.	
			SS-2		0.0				
			SS-3		0.0			Poorly **graded Sand,** fine to **medium, orangish-tan, subrounded, 1%** heavy minerals.	
5			SS-4		0.0			Poorly **graded** Sand, fine, orangish-tan, dry, **1% heavy minerals.**	
								No Recovery	
10								No Recovery	
							SP	No Recovery	
								No Recovery	
15								Poorly **graded Sand,** fine, white **subrounded,** trace **heavy** minerals.	
								No Recovery	
20								**No** Recovery	
								Poorly **graded Sand,** fine to **medium, white, subrounded, wet, 1%** heavy **minerals.**	
								End of **boring** at **24.0'** bls.	-32
25									
30									
35									
40									

Notes:
SS = Split spoon

Samples Collected:
025S001100 - gamma only
025S001101
025S001102
025S001104
025C001104 - gamma DUP
025S001106

WELL DIAGRAM



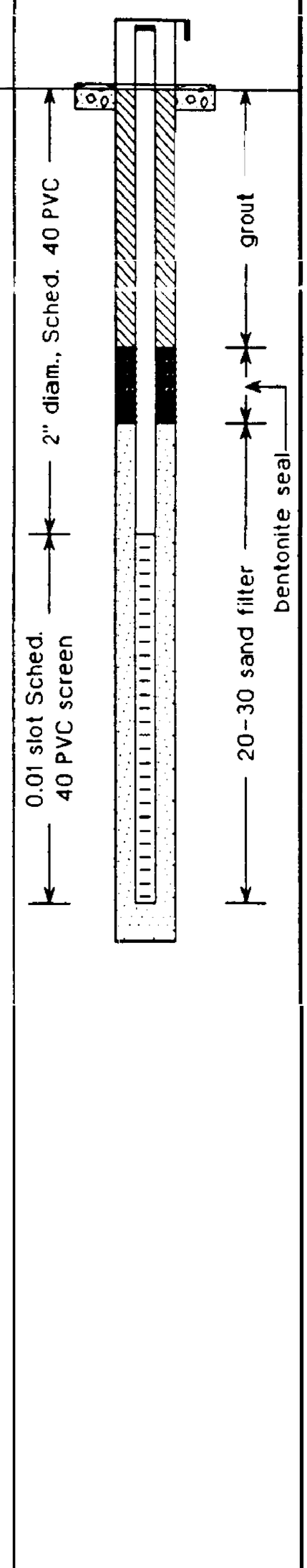
EnSafe/Allen & Hoshall	Monitoring Well 25GS07
Project: *Site 25*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *feet msl*
Started at *1030 on 7-14-93*	TOC Elevation: *23.75 feet msl*
Completed at *1225 on 7-14-93*	Depth to Groundwater: *16.69 feet* Measured: *4/02/96*
Drilling Method: *4.25-inch ID Hollow Stem Auger*	Groundwater Elevation: *6.91 feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *23.0 feet*
Geologist: *M. Lucking*	Well Screen: *12.0 to 22.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1		0.0			Surface Conditions: **Grassy** area **adjacent** to gravel **parking** lot	
			SS-2		0.0				
5			SS-3		0.0			Silty Sand, fine to medium, **dark** brownish-red to yellowish orange to light tan, roots in upper **portion**, up to **5%** heavy **minerals.**	
10							SP		
15									
20									
								nd of boring **a!** 23.0' bls.	
25									
30									
35									
40									

Notes:
SS = Split spoon

Samples Collected:
025S000500 - **gamma** only
025S000502 - **plus** gamma
025S000504
025S000506

WELL DIAGRAM



EnSafe/Allen & Hoshall

Monitoring Well 25GS08

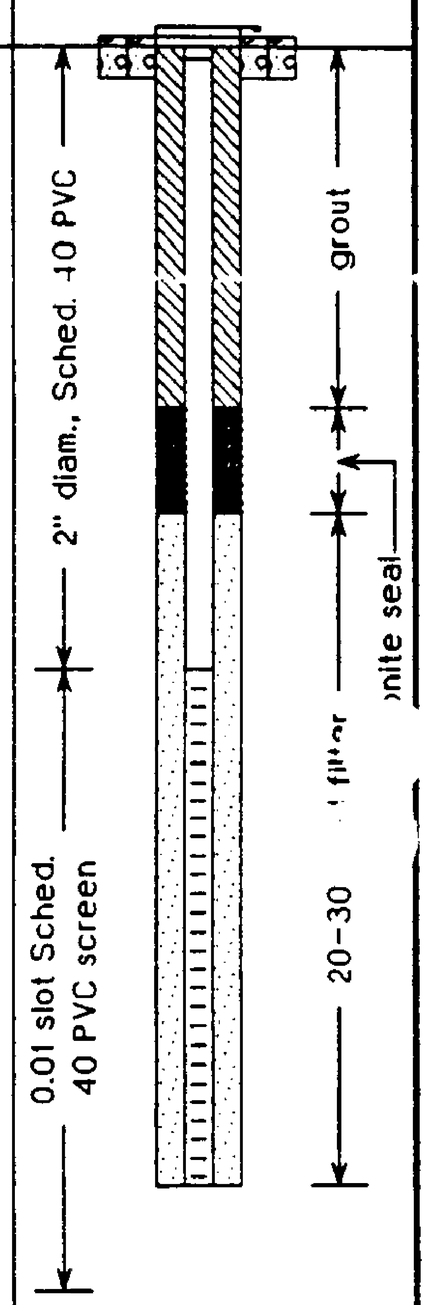
Project: *Site 25*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *21.23 feet msl*
Started at *1557 on 7/21/93*	TOC Elevation: *21.01 feet msl*
Completed at *1540 on 7/22/93*	Depth to Groundwater: *14.43 feet* Measured: *4/02/96*
Drilling Method: *4.25-inch ID Hollow Stem Auger*	Groundwater Elevation: *6.58 feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *6.0 feet*
Geologist: *S. Parker*	Well Screen: *12 to 22 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1					Clayey Sand, red clay and Sand base; poorly sorted Sand, yellow-orange fine-medium, orange-gray mottling.	
			SS-2						
5		A	SS-3					Poorly graded Sand. yellowish-orange. fine-medium Sand, 1-2% heavy minerals, some gravel pieces.	
			SS-4		45.0			Poorly graded Sand, reddish-brown in upper 2-3", brown to yellowish- orange, fine-medium Sand, 1-2% heavy minerals, some gravel.	
			SS-5		21.9				
10			SS-6				SP	Poorly graded Sand, yellowish-orange, fine-medium, 1-2% heavy minerals orange-brown mottling.	
			SS-7					Poorly graded Sand, yellowish-orange, fine-medium, 2-3% heavy minerals, orange-brown mottling; lower 9"-poorly graded, grayish-tan, fine-medium, 5% heavy minerals.	
15			SS-8					Poorly sorted Sand, light tan to gray, fine-medium, orange to brown mottling, 5% heavy minerals.	
20								Poorly graded Sand, light tan to white, fine to medium Sand, orange mottling, 1-2% heavy minerals.	
								Poorly sorted Sand, light tan to white, fine-medium, trace heavy minerals,	
								End of boring at 22.0' bls.	8
35									
40									

Notes:
SS = Split Spoon

Samples Collected:
025S001202 - plus gamma
025S001204
025S001206
025S001208
025S001210
025S001212
025C001212
025K001212
025X001212
025S001214

WELL DIAGRAM



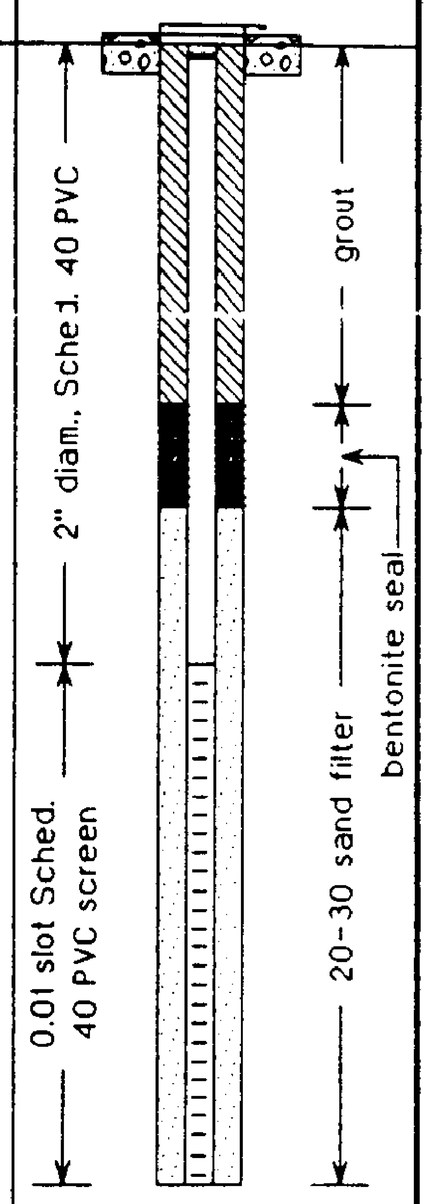
EnSafe/Allen & Hoshall

Monitoring Well 25GS09

Project: *Site 25*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *19.47 feet msl*
Started at *1730 on 7-22-93*	TOC Elevation: *19.18 feet msl*
Completed at *1900 on 7-22-93*	Depth to Groundwater: *13.32 feet* Measured: *4/02/96*
Drilling Method: *4.25-inch ID Hollow Stem Auger*	Groundwater Elevation: *5.86 feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *22.0 feet*
Geologist: *L. Hughes*	Well Screen: *12 to 22 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE #	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1	92	0.0			Poorly **graded Sand**, yellowish-orange, brown to gray mottling, **up** to **2% heavy minerals.**	
			SS-2	92	0.0				
5			SS-3	92	0.0				
10							SP		
15									
20								**End** of boring at 22.0' bls.	
									-25
25								**Notes:** SS = Split Spoon	
30								**Samples** Collected: 025S001202 - plus gamma 025S001304 - plus **gamma** and gamma DUP 025S001306 025K001306 025X001306	
35									
40									

WELL DIAGRAM



EnSafe/Allen & Hoshall

Boring 25S03

Project: *Site 25*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist:
Started at *on - -93*	Surface Elevation:
Completed at *on - -93*	Depth to Groundwater: Measured: */ /96*
Drilling Method: *4.25-inch ID Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *16.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1		0.0			Fine, medium sorted Sand, subrounded, tan, dry.	
			SS-2		15			Fine, tan Sand, dry.	
5			SS-3		0.0			Reddish-tan Sand with mottling.	
			SS-4		0.8			Medium, well sorted Sand, subrounded, reddish-tan.	
			SS-5		14		SP	Fine, well sorted Sand, 1% heavy minerals.	
10			SS-6		43			White Sand,	
			SS-7		60			Well sorted, white Sand, water at approximately 14.5 feet bgs.	
15			SS-8		50			End of boring at 16.0'bls.	
20									
25									
30									
35									
40									

Notes:
SS = Split Spoon

Samples Collected:
025S000301 - gamma only
0255000302 - plus gamma
025S000304
025S000306
025S000308
025S000310
025S000312
025S000314

EnSafe/Allen & Hoshall

Boring 25S05

Project: *Site 25*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist:
Started at *1035 on 7-06-93*	Surface Elevation:
Completed at *1100 on 7-06-93*	Depth to Groundwater: Measured:
Drilling Method: *4.25-inch ID Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *6.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1		0.0			**Sand with minor Silt,** fine to **medium,** dark **brownish-red, roots** present, minor heavy **minerals.**	
			SS-2		0.0		SP	**Sand** with minor Silt, fine to **medium,** yellowish-orange to light tan, 1 to 2% heavy minerals.	
5			SS-3		0.0			Yellowish-orange, fine to **medium** Sand **with** reddish-brown silty **Sand,** 3 to 5% heavy minerals.	
								End of **boring** at 6.0' bls.	
10								Notes: **SS** = Split Spoon	
								Samples Collected: 0255000500 - gamma only 025S000502 - plus gamma 025S000504 025S000506	
15									
20									
25									
30									
35									
40									

EnSafe/Allen & Hoshall

Boring 25S06

Project: *Site 25*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist:
Started at *on*	Surface Elevation:
Completed at *on*	Depth to Groundwater: Measured:
Drilling Method: *4.25-inch ID Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *0.5 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			HA-1		0.0		SP	Medium tan, fine to medium Sand, organic matter, minor heavy minerals. End of boring at 0.5' bls.	
5									
10									
15									
20									
25									
30									
35									
40									

Notes;
HA = Hand Auger

Samples Collected:
025S000600 - gamma only

EnSafe/Allen & Hoshall

Boring 25S09

Project: *Site 25*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist: *S. Parker*
Started at *1330 on 7-14-93*	Surface Elevation:
Completed at *1420 on* **7-14-93**	Depth to Groundwater: Measured: 74/93
Drilling Method: *4.25-inch ID Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *14.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1		0.0			Fine **medium Sand, brown-yellowish-orange, dark-gray mottling, 1%** heavy minerals.	
			SS-2		0.0			Yellowish-orange, fine-medium **Sand, dark brown and** gray mottling, **1-3%** heavy **minerals.**	
5			SS-3		0.0				
		A	SS-4		0.0		SP	Yellowish-orange, light tan-medium **Sand, 1-2%** heavy minerals.	
		A	SS-5		0.0				
10		A	SS-6		0.0			Light tan, fine-medium **Sand, 1-2% heavy minerals.**	
		A	SS-7		0.0			Light tan, white **fine-medium Sand,** trace heavy minerals, orange mottling wet at bottom.	
15								**End** of boring at 14.0' bls.	
20									
25									
30									
35									
40									

Notes:
SS = Split Spoon

Samples Collected:
025S000900 - plus gamma
025S000902 - **plus gamma and gamma DUP**
025S000904
025S000906
025S000908
025S000910
025S000912
025S000914

EnSafe/Allen & Hoshall	Boring 25S15
Project: *Site 25*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist:
Started at *on - -93*	Surface Elevation:
Completed at *on - -93*	Depth to Groundwater: Measured:
Drilling Method: *Hand Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *0.5 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			HA-1				SM	Silty **Sand, dark** organic-rich **topsoil. End of boring at 0.5' bls.**	
5								**Notes:** **HA = Hand Auger** Samples Collected: 025S001500 - plus gamma	
10									
15									
20									
25									
30									
35									
40									

EnSafe/Allen & Hoshall

Boring 25S16

Project: *Site 25*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist:
Started at *on - -93*	Surface Elevation:
Completed at *on - -93*	Depth to Groundwater: Measured:
Drilling Method: *Hand Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *2.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			HA-1				SM	Silty **Sand, dark** organic-rich	
			HA-2				SP	Poorly graded Sand, tan. End of boring at 2.0' bls.	
5									
10									
15									
20									
25									
30									
35									
40									

Notes:
HA = **Hand Auger**

Samples Collected:
025S001600 - **plus** gamma
025S001601
025**S0**01602

EnSafe/Allen & Hoshall

Boring 25S17

Project: *Site 25*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist:
Started at *on* - -93	Surface Elevation:
Completed at *on* - *-93*	Depth to Groundwater: Measured:
Drilling Method: *Hand Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *4.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE ID	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			HA-1				SM	Silty Sand, dark organic-rich.	
			HA-2				SP	Poorly graded Sand, orangish-tan. End of boring at 4.0' bls.	
5									
10									
15									
20									
25									
30									
35									
40									

Notes:
HA = Hand Auger

Samples Collected:
025S001700 - plus gamma
025K001700
025X001700
025S001701
025K001701
025X001701
025S001702
025S001704
025K001704
025X001704 - plus gamma and gamma DUP

EnSafe/Allen & Hoshall	Boring 25S18
Project: *Site 25*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist:
Started at *on - -93*	Surface Elevation:
Completed at *on - -93*	Depth to Groundwater: Measured:
Drilling Method: *Hand Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *0.5 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLES	ANALYTICAL SAMPLE	SAMPLES NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
	X		HA-1				ML	**Silty Clay, dark** organic-rich, **moist, End of boring at 0.5' bls.**	
5								Notes: **HA = Hand Auger** **Samples** Collected: 025S001800 - **plus** gamma 025C001800 025K001800 025X001800	
10									
15									
20									
25									
30									
35									
40									

EnSafe/Allen & Hoshall

Boring 25S19

Project: *Site 25*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist:
Started at *on - -93*	Surface Elevation:
Completed at *on - -93*	Depth to Groundwater: Measured:
Drilling Method: *Hand Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *0.5 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			HA-1 HA-2 HA-3 HA-4 HA-5				SP	**Ground Surface: Oyster shell drive mixed with asphalt** **Poorly graded Sand,** tan. **End** of boring at **4' bls.**	
5									
10								Notes; **HA** = Hand Auger **Samples** Collected: 025S001900 - plus gamma 025S001901 025S001902 025S001904	
15									
20									
25									
30									
35									
40									

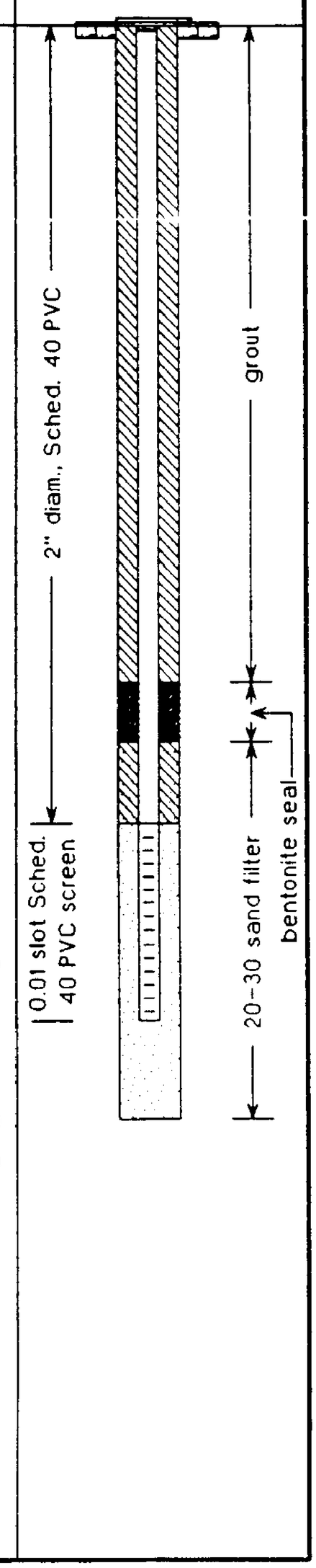
EnSafe/Allen & Hoshall	Monitoring Well 25GI01
Project: *Site 25*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *21.10 feet msl*
Started at *1805 on 7-22-93*	TOC Elevation: *20.76 feet msl*
Completed at *2045 on* **7-22-93**	Depth to Groundwater: *13.57 feet* Measured: *4/02/96*
Drilling Method: *4.25-inch ID Hollow Stem Auger*	Groundwater Elevation: *5.64* **feet** *msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *57.0 feet*
Geologist: *L. Hughes*	Well Screen: *40 to 50 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
5									
10									
15									
20									
25									
30									
35			SS-1				SM	Fine Silty **Sand, well sorted, subrounded,** thin clayey **Sand** tenses, **1% heavy minerals, moderate stiffness.**	13.9 15.9
40									
45			SS-2		0.0		SP	Fine, **medium sorted Sand,** less silty, **subrounded, 1% heavy** minerals.	-23.9 -259
50									
55			SS-3		0.0		SC	**Clayey Sand,** mixture of **medium stiff** clayey **sands** and **sandy** clays **with** shell fragments, grading to fairly fat clays. End of Boring at 57.0' bls.	-3349 -35.9
60									
65									
70									
75									

Notes:
SS = Split Spoon

Samples Collected;
025S000857
025C000857

WELL DIAGRAM



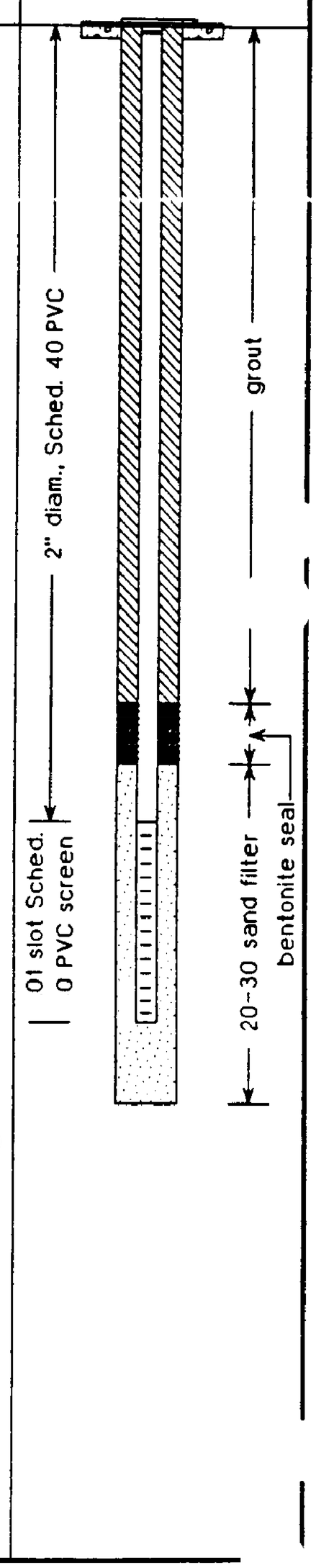
EnSafe/Allen & Hoshall	Monitoring Well 25GI02
Project: *Site 25*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *21.10 feet msl*
Started at *1605 on 7-22-93*	TOC Elevation: *20.76 feet msl*
Completed at *2045 on 7-22-93*	Depth to Groundwater: *14.57 feet* Measured: *4/02/96*
Drilling Method: *4.25-inch ID Hollow Stem Auger*	Groundwater Elevation: *6.19 feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *54.0 feet*
Geologist: *L. Hughes*	Well Screen: *40 to 50 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOI CLASS	GEOLOGIC DESCRIPTION	≈LEV. (ft-msl)
			SS-1				SP	Poorly **graded Sand, dark tan, dry,** minor **red** asphalt **base** material.	20.1
35			SS-2		0.0		SP	Poorly **graded Sand, fine,** tan to cream, **subrounded, wet,** trace heavy minerals.	13.9 15.9
45			SS-3		0.0		SP	Poorly **graded Sand, fine,** tan to cream, **subrounded, 1%** heavy minerals, wet.	23.9 -25.9
50			SS-4		0.0				28.9
			SS-5		0.0		SC	Clayey **Sand,** fine, thin stiff clay lenses, fight **tan, wet,** grading to fat **sandy** clay from **55** to **56** feet bls. **End** of **boring** at 56.0' bls.	
55			SS-6		0.0				-34.9

Notes:
SS = Split Spoon

Samples Collected:
025S001400 - gamma **and** gamma DUP only
025S001401
025S001456

WELL DIAGRAM



EnSafe/Allen & Hoshall

Boring 026S01

Project: *Site 26*	Location: *NAS Pensacola*
Project No.: *0970-00030*	Geologist: *S. Parker*
Started at *13:25 on 4-25-95*	Surface Elevation:
Completed at *13:50 on 4-25-95*	Depth to Groundwater: Measured:
Drilling Method: *Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *15 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1		0		SM	**Surface Conditions; 10"** concrete. Brown to orange tan mottled fine to **medium grained silty sand** with pieces of **black material.**	
5			SS-2		0		SP/SM	Tan to orange mottled fine to medium grained **sand** with **3-5%** heavy minerals from 3-4'bls. Brown fine to medium grained sand to 4.5'bls.	
10			SS-3		0		SM	**Dark brown** to gray mottled fine to **medium grained silty sand.**	
15			ss-4		0		SP	White to gray fine to **medium** grained **sand** with **few** laminations. **Moist** at 14'bls. **Wet** at 15'bls.	
20								Notes: **SS** = Split Spoon Sample Samples Collected: 026S000101 026S000105 026S000110 026S000114	
25									
30'									
35									
40									

EnSafe/Allen & Hoshall

Boring 026S05

Project: *Site 26*	Location: *NAS Pensacola*
Project No.: *0970-00030*	Geologist: *S. Parker*
Started at *09:55 on 4-28-95*	Surface Elevation:
Completed at *on 4-28-95*	Depth to Groundwater: Measured:
Drilling Method: *Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *16 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1		0			Surface Conditions: 10-12" concrete.	
5			SS-2		0				
10			Ss-3		0		SP	Tan to orange fine to **medium grained slightly clayey sand** to 1'bls. Tan to orange **fine** to **medium grained sand with few 1-3% heavy** minerals **and** orange **and brown laminations** from **3-5'bls. Tan** to **white medium** grained **sand** laminated **with orange and brown** to 16'bls. Slightly **moist** from 12-14'bls. **Wet** at 14.5'bls.	
15			Ss-4		0				
20								Notes: **SS** = Split Spoon **Sample** **Samples** Collected: 026S000501 026S000505 026S000510 026S000514	
25									
30									
35									
40									

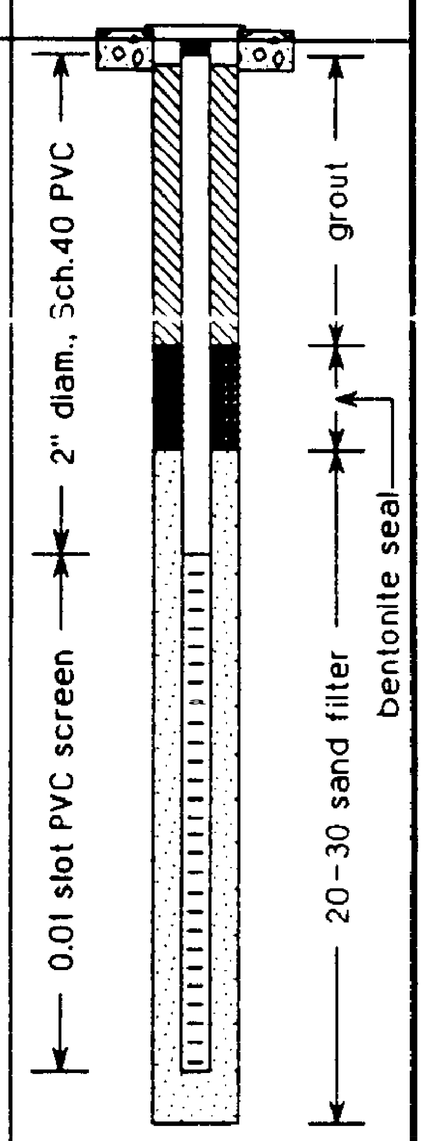
EnSafe/Allen & Hoshall	Monitoring Well 026GS02
Project: *Site 26*	Location: *NAS Pensacola*
Project No.: *0970-00030*	Surface Elevation: *feet msl*
Started at *10:55 on* 4-27-56	TOC Elevation: *18.06 feet msl*
Completed at *on 4-27-95*	Depth to Groundwater: *16.27 feet* Measured: 6-26-95
Drilling Method: *4 1/4" Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *21 feet*
Geologist: *S. Parker*	Well Screen: *10 to 20 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1		0			Surface Conditions: Sandy soil with leaf and grass debris located in drainage swale.	
			SS-2		0				
5									
			SS-3		0				
10			SS-4		0		SP	Dark brown to orange fine to medium grained sand in upper 2". Tan fine to medium grained sand with few lanimations to 12"bls. Dark brown to tan mottled fine to medium grained laminated sand to 5'bls. Dark brown to light brown mottled fine to medium grained laminated sand with few heavies to 7'bls. Buff white fine to medium grained sand with 1-2mm orange to brown laminations and few heavies to 10'bls. Buff white fine to meidum grained sand from 10-12'bls. 2" thick brawn and clay horizon at 10'bls. Fewer laminations and slightly coarser toward 12'bls. Wet at 12'bls. Brown fine to medium grained sand to 21'bls.	
15									
20									
25									
30									
35									
40									

Notes:
SS = Split Spoon **Sample**

Samples Collected:
026S000201
026S000205
026C000205
026S000210
026S000212

ELL DIAGRAM



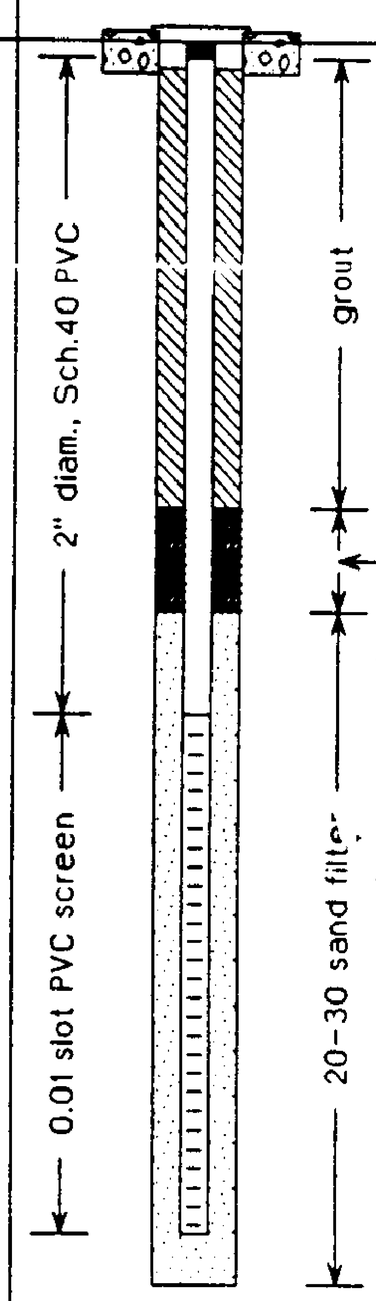
EnSafe/Allen & Hoshall

Monitoring Well 026GS03

Project: *Site 26*	Location: *NAS Pensacola*
Project No.: *0970-00030*	Surface Elevation: *feet msl*
Started at *10:26 on 4-25-95*	TOC Elevation: *18.68 feet msl*
Completed at *on 4-25-95*	Depth to Groundwater: *15.93 feet* Measured: *6-26-95*
Drilling Method: *4 1/4" Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *24 feet*
Geologist: *S. Parker*	Well Screen: *13 to 23 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1		0		SC SP	Surface Conditions: 3" thick asphalt. **Red clayey sand** fill to 6"bls. Tan to **orange fine** to **medium grained sand laminated with black** and orange to 1'bls.	
5			SS-2		0				
10			SS-3		0				
			SS-4		0				
15							SP	**Tan** to orange fine to **medium grained laminated sand with stringers** of orange **and black** from 3-5'bls. **White** to gray **medium grained laminated sand** orange to **brown** to 12'bls. **Same sand as above with** slightly finer **grained sand from** 12-16'bls. Moist at 14'bls. **Wet** at 15'bls. Clean white **sand to** 24'bls.	
20									
25								Notes: SS = Split Spoon Sample Samples Collected: 026S000301 026S000305 026S000310 026S000312	
30									
35									
40									

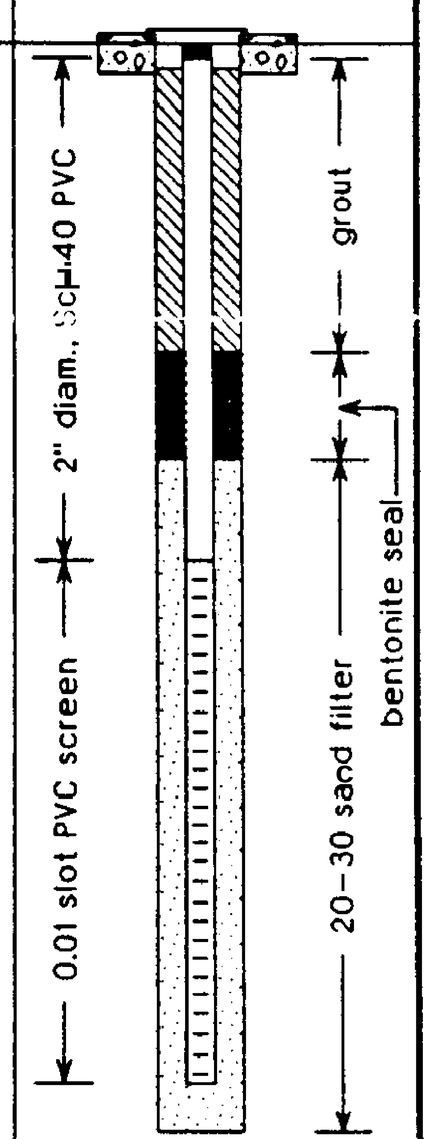
WELL DIAGRAM



EnSafe/Allen & Hoshall	Monitoring Well 026GS04
Project: *Site 26*	Location: *NAS Pensacola*
Project No.: *0970-00030*	Surface Elevation: *feet msl*
Started at *09:00 on 4-26-95*	TOC Elevation: *19.65 feet msl*
Completed at *10:20 on 4-26-95*	Depth to Groundwater: *16.87 feet* Measured: *6-26-95*
Drilling Method: *4 1/4" Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *21 feet*
Geologist: *S. Parker*	Well Screen: *10 to 20 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1		0			**Surface Conditions: Grass covered sandy soil in small swale.**	
			SS-2		0				
5									
			SS-3		0				
10							SP	**Tan** to **orange brown** fine to **medium** grained **slightly silty sand with roots present** to 1'bls. Tan to **orange mottled fine** to **medium grained moderately well sorted sand with 3-5% heavies** from 1-7'bls. **Some laminations present** from 5-7'bls. **White medium** grained **sand with few** orange **laminations and 3-5% heavies** to 14'bls. **Moist** at 10'bls. Very few laminations, **trace heavies and wet** at 13'bls. Clean **white medium grained sand with few** orange laminae to 21'bls.	
			ss-4		0				
15									
			SS-5						
20									
25								**Notes:** **SS** = Split **Spoon** Sample **Samples** Collected: 026S000401 026S000405 - **Physical parameters** 026S000410 - **Physical parameters** 026S000414 026S000417 - **Physical parameters and** grain **size only**	
30									
35									
40									

WELL DIAGRAM



EnSafe/Allen & Hoshall

Monitoring Well 27GS01

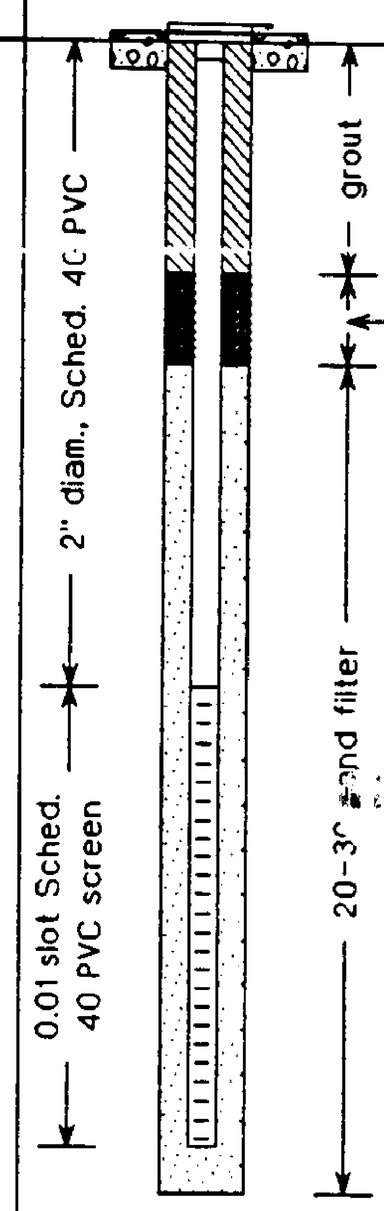
Project: *Site 27*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *26.45 feet msl*
Started at *1150 on 6-03-93*	TOC Elevation: *26.06 feet msl*
Completed at *1330 on 6-03-93*	Depth to Groundwater: *16.55 feet* Measured: *4/02/96*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *9.51 feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *25.0 feet*
Geologist: *L. Hughes*	Well Screen: *14 to 24 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1	100				Surface **Conditions: Ground surface/topsoil**	
			SS-2	100					
			SS-3	100					
			SS-4		0.0				
5									
10			SS-5					Poorly **graded yellowish Sand,** fine to medium,	
			SS-6		150		SP		
15									
20									
25								**End** of boring at 25.0' bls.	15
30									
35									
40									
45									

Notes:
SS = Split Spoon

Samples Collected:
027S000100 - **plus gamma**
027S000101
027S000104
027S000106
027C000106
027S000108
027S000110
027S000112
027S000114
027S000116
027S000118

WELL DIAGRAM



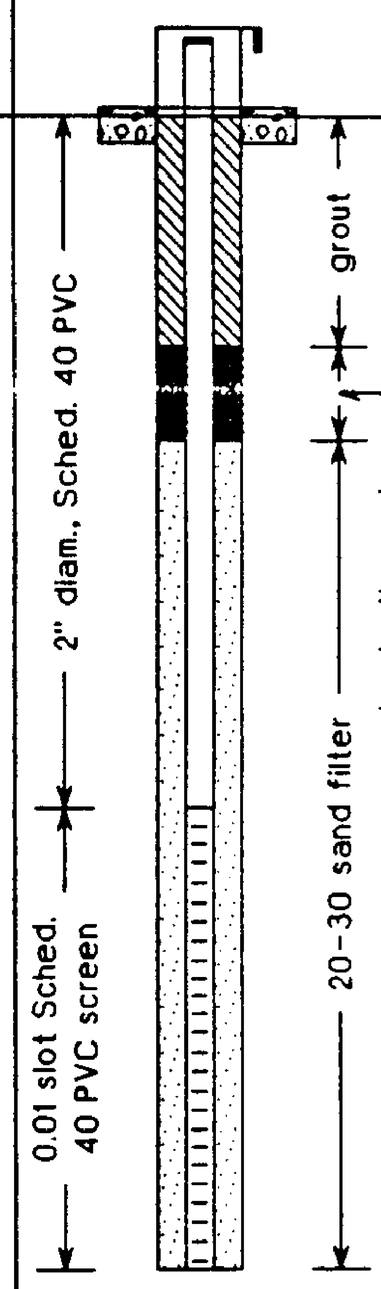
EnSafe/Allen & Hoshall	Monitoring Well 27GS02
Project: *Site 27*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *25.94 feet msl*
Started at *1100 on 6-04-93*	TOC Elevation: *27.71 feet msl*
Completed at *1500 on 6-04-93*	Depth to Groundwater: *18.20 feet* Measured: *4/02/96*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *9.51 feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *25.0 feet*
Geologist: *M. Lucking*	Well Screen: *15 to 25 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1		0.0			Surface Conditions: Ground surface/topsoil	
			SS-2		0.0				
5			SS-3		0.0				
			SS-4		0.0				
			SS-5		0.0				
to			SS-6		0.0			Poorly graded tan Sand, fine to medium, becoming moist at 5 feet bls, grading to white from 8.5 to 10 feet bls, becoming wet at 17.5 feet bls, <1% heavy minerals in lower intervals of boring.	
			SS-7		0.0		SP		
15			SS-8		0.0				
			SS-9		0.0				
			SS-10		0.0				
20			SS-11		0.0				
25								End of boring at 25.0' bls.	9
30									
35									
40									
45									

Notes:
SS = Split Spoon

Samples Collected:
027S000200 - gamma only
027S000201
027S000204
027C000204
027K000204
027X000204
027S000206
027S000208
027S000210
027S000212
027S000214
027S000216

WELL DIAGRAM



EnSafe/Allen & Hoshall

Monitoring Well 27GS03

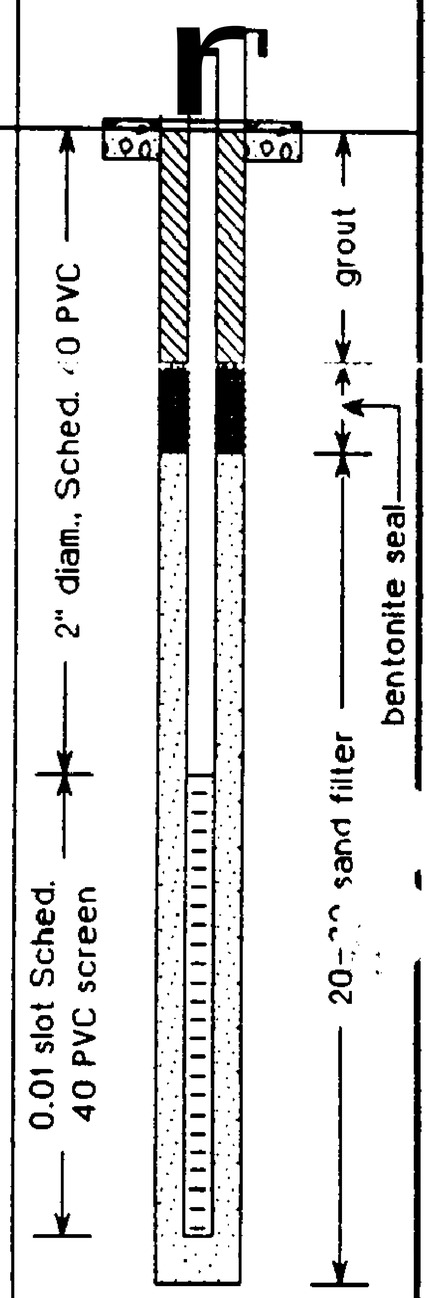
Project: *Site 27*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *25.05 feet msl*
Started at *0905 on 6-07-93*	TOC Elevation: *27.22 feet msl*
Completed at *1155 on 6-07-93*	Depth to Groundwater: *18.55 feet* Measured: *4/02/96*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *8.67 feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *25.0 feet*
Geologist: *M. Lucking*	Well Screen: *14 to 24 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1		0.0			Surface Conditions; Ground surface/topsoil	
			SS-2		0.0				
5			SS-3		0.0				
			SS-4		0.0				
			SS-5		NA				
10			SS-6		NA			Poorly graded tan Sand, fine to medium, becoming moist at 5 feet bls, grading to white at 12 feet bls, becoming wet at 16.5 feet bls, displays "sugar sand" texture when wet, 1% heavy minerals in 6 to 8 feet bls interval	
			SS-7		NA		SP		
15			SS-8		NA				
			SS-9		NA				
20			SS-10		NA				
25								End of boring at 25.0' bls.	0
30									
35									
40									
45									

Notes:
SS = Split Spoon

Samples Collected:
027S000300 - plus gamma
027S000301
027S000302
027S000304
027C000304
027S000306
0275000308
027K000308
027X000308
027S000310
0275000312
027S000314
027S000316

WELL DIAGRAM



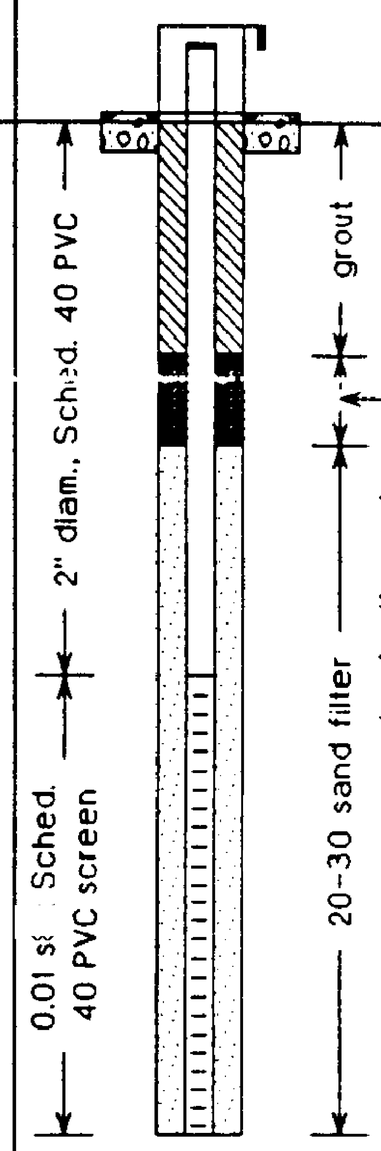
EnSafe/Allen & Hoshall	Monitoring Well 27GS04
Project: *Site 27*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *20.50 feet msl*
Started at *1420 on 6-07-93*	TOC Elevation: *22.51 feet msl*
Completed at *1600 on 6-07-93*	Depth to Groundwater: *15.31 feet* Measured: *4/02/96*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *7.20 feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *22.0 feet*
Geologist: *M. Lucking*	Well Screen: *12 to 22 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1		0.0			Surface **Conditions: Ground surface/topsoil**	
			SS-2						
5			SS-3						
			SS-4						
			SS-5						
10			SS-6				SP	**Poorly graded** tan **Sand,** fine, **grading to white at 15** feet bls, becoming wet at 13 feet bls, **1% heavy minerals** in 14 to 16 feet bls interval.	
			SS-7						
15			SS-8						
20			SS-9						
								End of boring at 22.0' bls.	15
25									
30									
35									
40									
45									

Notes:
SS = Split spoon

Samples Collected:
027S000400 - gamma only
027S000401
027S000402
027K000402
027X000402
027S000404
027C000404
027S000406
027C000406
027S000408
027S000410
027S000412
027K000412
027X000412
027S000414

WELL DIAGRAM



EnSafe/Allen & Hoshall

Monitoring Well 27GS05

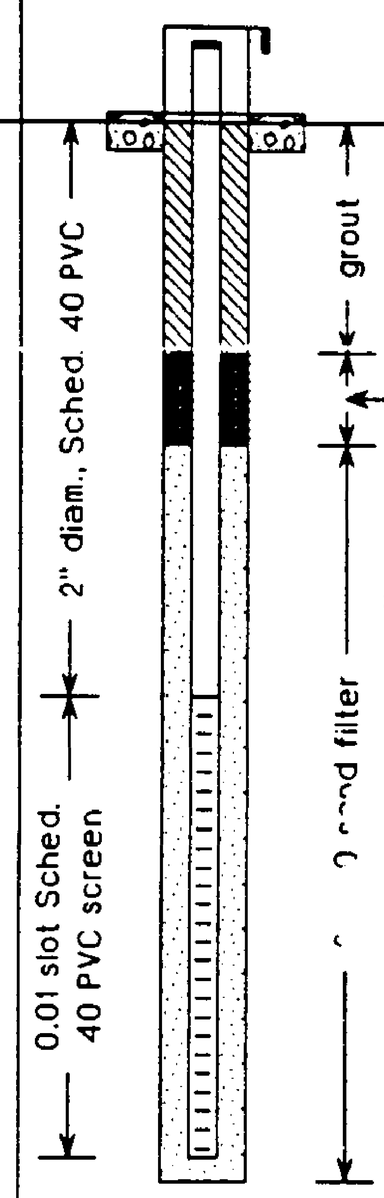
Project: *Site 27*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *21.82 feet msl*
Started at *0745 on 6-08-93*	TOC Elevation: *23.90 feet msl*
Completed at *1005 on 6-08-93*	Depth to Groundwater: *17.31 feet* Measured: *4/02/96*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *6.59 feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *230* f#t
Geologist: *M. Lucking*	Well Screen: *12.5 to 22.5 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1		0.0			Surface Conditions: Asphalt with red clay base	
			SS-2		0.0				
5			SS-3						
			SS-4		0.0				
			SS-5		6				
10			SS-6				SP	Poorly graded tan Sand, fine, grading to white at 13 feet bls, becoming wet at 15 feet bls, some very fine sand from 14 to 16 feet bls.	
			SS-7		10				
15			SS-8		19				
20									
								End of boring at 23.0' his-	12
25									
30									
35									
40									
45									

Notes:
SS = Split Spoon

Samples Collected:
027S000500 - gamma and gamma dup
027S000501
027S000502
027S000504
027S000506
027C000506
027S000508
027S000510
027C000510
027K000510
027X000510
027S000512
027S000514
027S000516

WELL DIAGRAM



EnSafe/Allen & Hoshall

Monitoring Well 27GS06

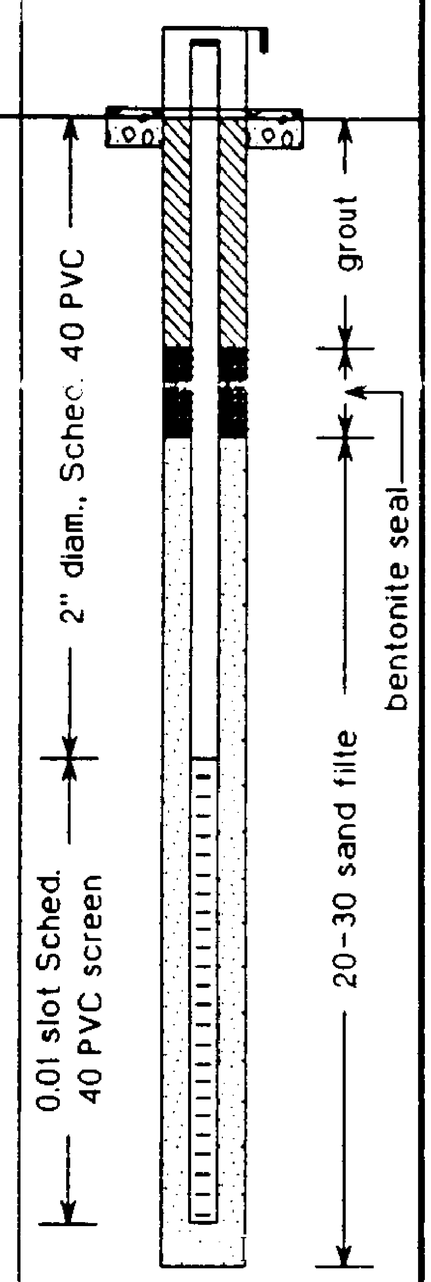
Project: *Site 27*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *22.18 feet msl*
Started at *1107 on 6-08-93*	TOC Elevation: *24.18 feet msl*
Completed at *1240 on 6-08-53*	Depth to Groundwater: *16.99 feet* Measured: *4/02/96*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *7.19 feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *25.0 feet*
Geologist: *M. Lucking*	Well Screen: *14 to 24 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1		30			Surface Conditions:	
			SS-2		NR				
5			SS-3		7				
			SS-4		0.0				
			SS-5		15				
10			SS-6		10			Poorly **graded** white to tan **Sand, fine, diesel odor** in 0 to 2 feet bls interval, **becoming** wet at 15.5 feet bls.	
			SS-7		5		SP		
15			SS-8		35				
20									
25								**End** of boring at 25.0' bls.	28
30									
35									
40									
45									

Notes;
SS = Split Spoon

Samples Collected;
027S000600 - **gamma** only
027S000601
027S000602
027S000604 - **plus** gamma **and** gamma dup
0275000606
027C000606
0275000608
027S000610
027S000612
0275000614
027S000616

WELL DIAGRAM



EnSafe/Allen & Hoshall

Monitoring Well 27GS07

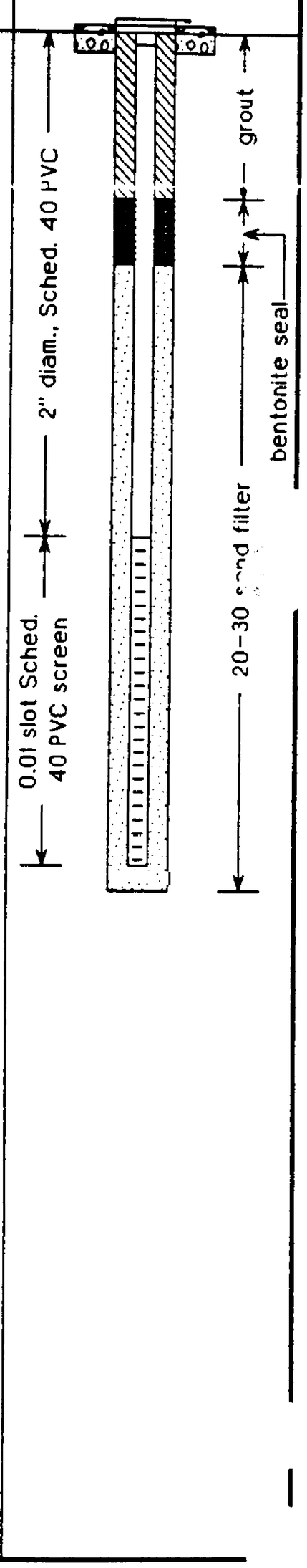
Project: *Site 27*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *25.80 feet msl*
Started at *0730 on 6-10-93*	TOC Elevation: *25.45 feet msl*
Completed at *1010 on 6-10-93*	Depth to Groundwater: *feet* Measured: *//96*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *26.0 feet*
Geologist: *M. Lucking*	Well Screen: *15.25 to 25.25 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SS NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1		0.0			**Surface Conditions:**	
			SS-2		0.0				
5			SS-3		0.0				
			SS-4						
			SS-5		49			Poorly **graded Sand, tan to white with depth, gray mottling** throughout, to **wet at 18.0** feet **bls.**	
10			SS-6		165				
		A	SS-7		51		SP		
15		A	SS-8		106				
			SS-9		6				
			SS-10						
20									
25								**End** of **boring at 26.0'bls.**	-2
30									
35									
40									
45									

Notes:
SS = Split Spoon

Samples Collected:
027S001002
027S001004
027C001004 - gamma only
027S001006
027C001006 - **gamma** only
027S001008 - **plus** gamma
027C001010 - **plus gamma and gamma** dup
027S001012 - **plus** gamma
027S001014 - **plus** gamma
027S001016 - **plus** gamma
027S001018 - plus **gamma**
027S001020 - gamma only

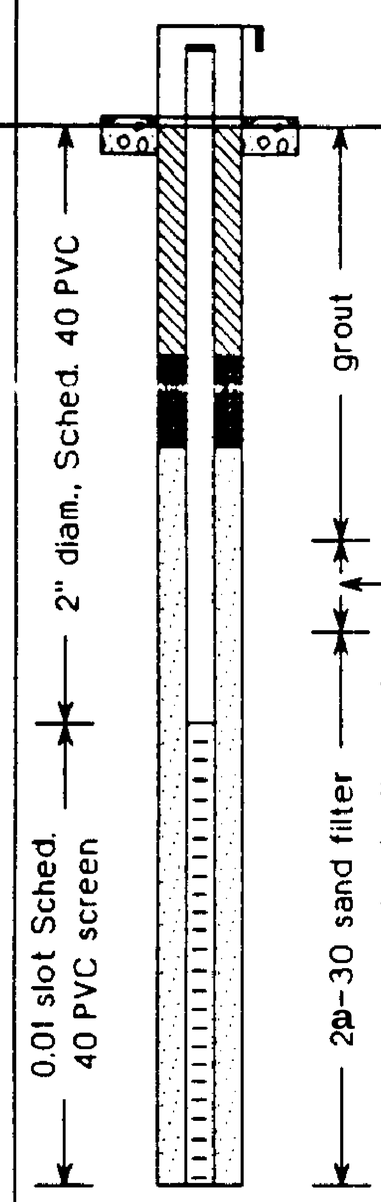
WELL DIAGRAM



EnSafe/Allen & Hoshall	Monitoring Well 27GS08
Project: *Site 27*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *23.10 feet msl*
Started at *0830 on 7-01-93*	TOC Elevation: *25.28 feet msl*
Completed at *on 7-01-93*	Depth to Groundwater: *17.45 feet* Measured: *4/02/96*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *7.83 feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *18.0 feet*
Geologist: *M. Lucking*	Well Screen: *13 to 23 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1		0.0			**Surface** Conditions:	
			SS-2		0.0				
5			SS-3						
			SS-4		0.0				
			SS-5		0.0			Poorly **graded Sand,** fine, **subrounded, brownish-tan grading** to **reddish- tan grading to white** at **8** feet, 1% heavy **minerals after 8** feet, **becoming moist** with **depth, wet at** 16 **feet.**	
10			SS-6		0.0		SP		
			SS-7		0.0				
15			SS-8		0.0				
			SS-9		0.0				
20									
								End of boring at **23.0'** bls.	
25								**Notes:** **SS = Split** Spoon **Samples** Collected; 027S002000 - **plus** gamma **and gamma** dup 027K002000 027X002000 027S002002 - **plus** gamma 027S002004 - plus gamma 027S002006 - **plus** gamma 027S002008 - plus gamma 027S002010 - **plus gamma** 027S002012 - plus gamma **and** gamma **dup** 027S002014 - plus gamma 027S002016 - plus gamma 027S002018 - gamma **and** gamma dup	
30									
35									
40									
45									

WELL DIAGRAM



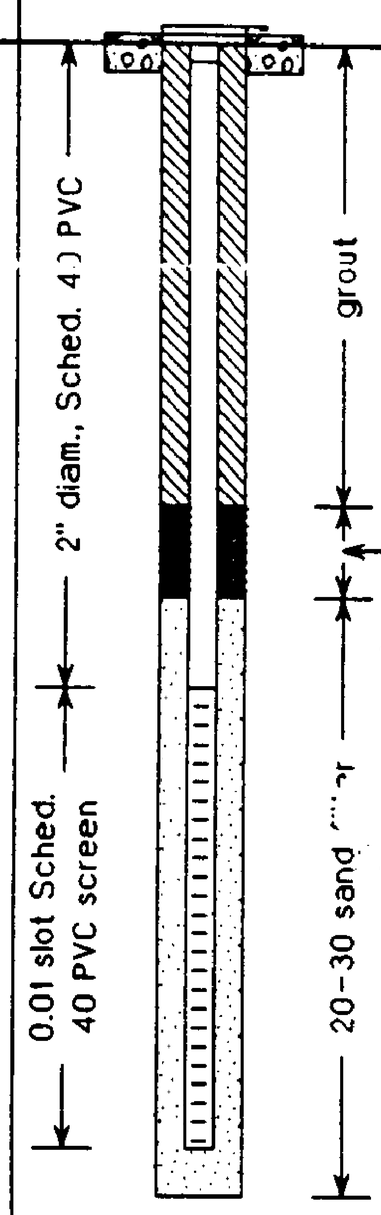
EnSafe/Allen & Hoshall

Monitoring Well 27GS09

Project: *Site 27*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *25.39 feet msl*
Started at *1020 on 7-06-93*	TOC Elevation: *25.07 feet msl*
Completed at *1320 on 7-06-93*	Depth to Groundwater: *17.21 feet* Measured: *4/02/96*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *7.86 feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *25.0 feet*
Geologist: *M. Lucking*	Well Screen: *14 to 24 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
		■	SS-1		0.0				
		■	SS-2		0.0				
5			SS-3		0.0				
		■	SS-4		0.0				
		■	SS-5						
10			SS-6		0.0				
		■	SS-7				SP	Poorly graded Sand, fine, subrounded, light tan to white with depth, moist then wet at 17 feet, dark streaking in upper 8 feet of boring, slimy yellowish-tan sludge on lead auger after pull from 25 feet.	
15		■	SS-8						
			SS-9		0.0				
20									
25								End of boring at 25.0' bls.	.4
30									
35									
40									
45									

WELL DIAGRAM



Notes:
SS = Split Spoon

Samples Collected:
027S002600 - plus gamma
027K002600
027X002600
027S002602 - plus gamma
027S002604 - plus gamma
027S002606 - plus gamma
027S002610
027K002610
027X002610
027S002614
027S002616

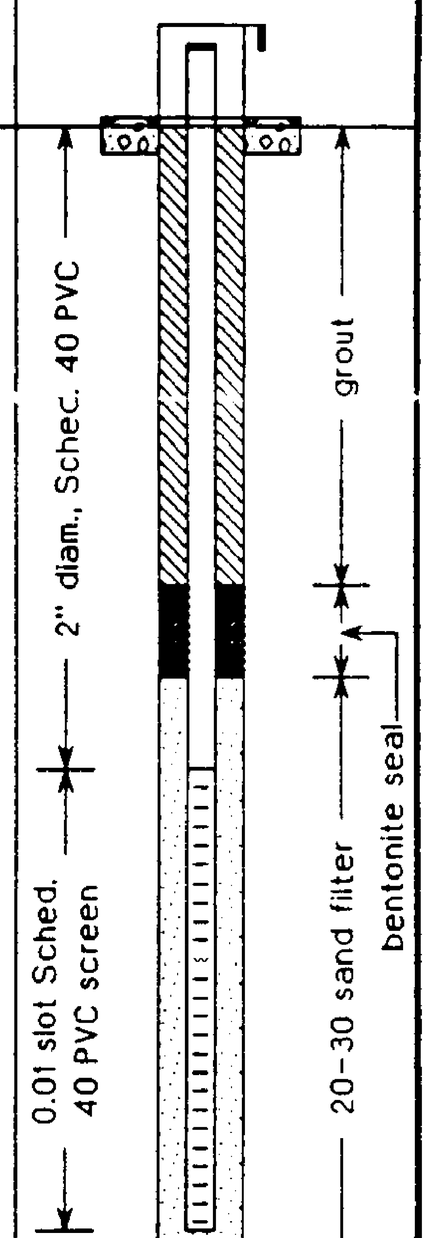
EnSafe/Allen & Hoshall	Monitoring Well 27GS10
Project: *Site 27*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *23.30 feet msl*
Started at *0905 on 7-14-93*	TOC Elevation: *25.47 feet msl*
Completed at *1310 on 7-14-93*	Depth to Groundwater: *16.84 feet* Measured: *4/02/96*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *8.63 feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *25.0 feet*
Geologist: *M. Lucking*	Well Screen: *14 to 24 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1					**Surface Conditions: Grassy area at intersection of Murry and Farrar Roads**	
			SS-2					Poorly **graded Sand** with **some** Silt, organic-rich. f	
5			SS-3						
			SS-4					Poorly **graded Sand,** fine to **medium,** yellowish-orange.	
			SS-5						
10			SS-6						
			SS-7				SP		
15			SS-8						
			SS-9					Poorly **graded Sand,** fine to **medium,** yellowish-orange to light tan, **2 to** 3% heavy **minerals.**	
			SS-10						
20			SS-11						
			SS-12					Poorly **graded Sand,** fine to **medium,** light tan to **buff** white, **2 to** 3% heavy **minerals** throughout.	
			SS-13						
25								**End** of boring **at 25.0' bls.**	17
30									
35									
40									
45									

Notes:
SS = Split Spoon

Samples Collected:
027S004100 - **plus** gamma
027S004102 - **plus** gamma

WELL DIAGRAM



EnSafe/Allen & Hoshall

Monitoring Well 27GS11

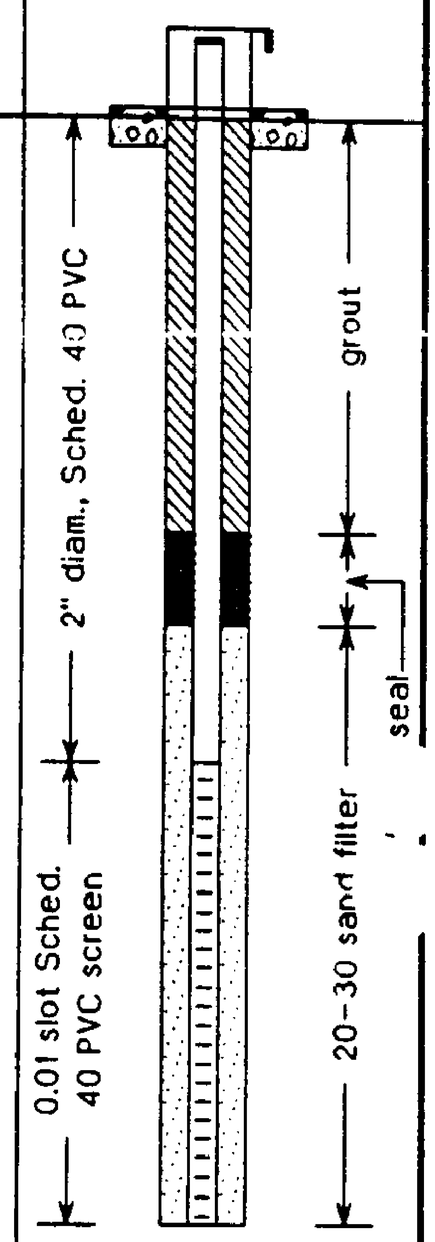
Project: *Site 27*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *25.18 feet msl*
Started at *1115 on 7-16-93*	TOC Elevation: *27.16 feet msl*
Completed at *1418 on 7-16-93*	Depth to Groundwater: *18.04 feet* Measured: *4/02/96*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *9.12 feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *24.0 feet*
Geologist: *L. Hughes*	Well Screen: *14 to 24 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
								Surface Conditions: Grassy area along Murray Blvd.	
								Hand auger **used to advance** borehole to depth of 8 feet bls **due** to **safety** concerns regarding underground utilities,	
									472
10			SS-1	100	0.0				
			SS-2	100	0.0			Poorly **graded Sand,** fine, **subrounded, orange-tan grading** to **whitish-** tan **to white with depth, 1% heavy minerals, white sand is clean, wet at 15.5** feet bls, **yellow foamy substance** on **outside** of **split spoon recovered from 22** to **24** feet,	
		A	SS-3	100	0.0				
15			SS-4	100	0.0				
			SS-5	0			SP	No **Recovery**	
20			SS-6	0				**No** Recovery	
			SS-7	0				No Recovery	
			SS-8		0.0			**End** of boring at **24.0'**bls.	
25									2
30									
35									
40									
45									

Notes:
SS = Split Spoon

Samples Collected:
027S004810
027S004812
027S004814
027K004814
027X004814
027S004816
027K004816
027X004816

WELL DIAGRAM



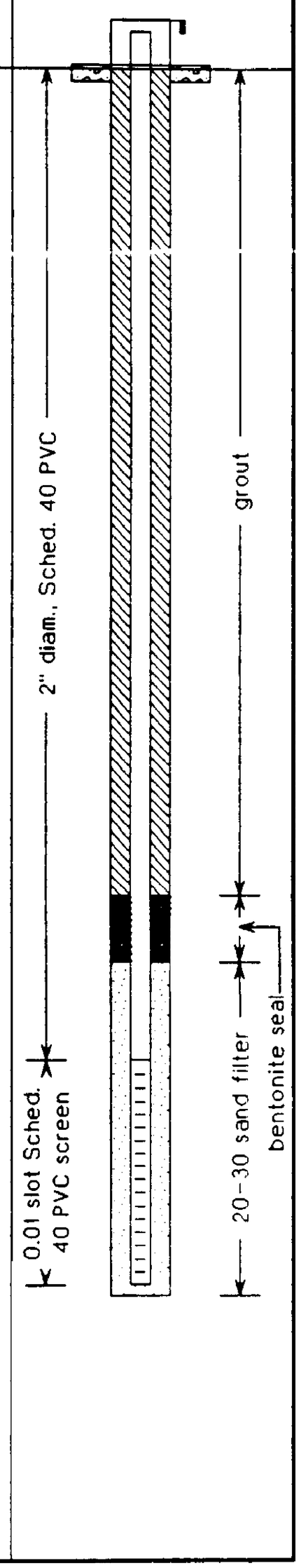
EnSafe/Allen & Hoshall

Monitoring Well 27GI01

Project: *Site 27*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *20.43 feet msl*
Started at *1255 on 6-16-93*	TOC Elevation: *22.69 feet msl*
Completed at *1640 on 6-16-93*	Depth to Groundwater: *16.11 feet* Measured: *4/02/96*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *6.58 feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *55.0 feet*
Geologist: *L. Hughes*	Well Screen: *44.5 to 54.5 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
								Surface Conditions: Ground surface/topsoil	
5									
10								Original Lithology Log **Lost.**	
15									
20									
25									
30							SP		
35									
40									
45									
50									
55								End of boring at 55.0' bls.	-34.6
60									
65									

WELL DIAGRAM



EnSafe/Allen & Hoshall

Monitoring Well 27GI02

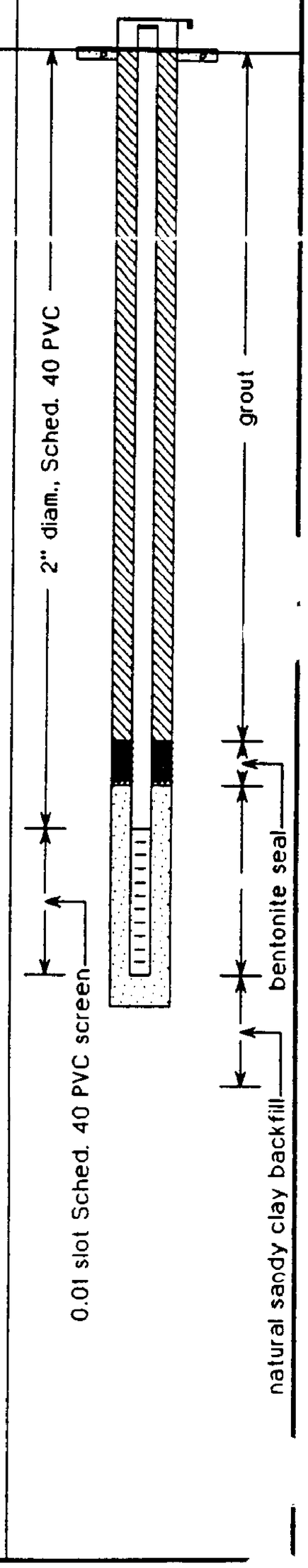
Project: *Site 27*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *25.68 feet msl*
Started at *0745 on 6-29-93*	TOC Elevation: *27.88 feet msl*
Completed at *1200 on 6-29-93*	Depth to Groundwater: *19.36 feet* Measured: *4/02/96*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *8.52 feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *70.5 feet*
Geologist: *M. Lucking*	Well Screen: *53 to 63 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1						
			SS-2		0.0		SP	Poorly **graded Sand**+fine, **subangular, brown** mottled to **reddish-tan,**	23.7 / 21.7
10			SS-3		0.0		SP	Poorly graded Sand, fine, subangular, white.	6.7 / 13.7
15									
20									
25									
30									
35			SS-4		0.0		SM	**Silty** Sand, fine, **subrounded,** poorly **sorted,** earthy odor, wet.	8.3 / 10.3
40			SS-5		0.0		SC	**Clayey Sand,** fine, **subrounded,** 1% **heavy** minerals, **clay matrix, wet,**	13.3 / 15.3
45			SS-6		0.0		SP	**Poorly graded Sand,** fine, **subrounded, whitish-tan, wet,**	19.3 / 21.3
50			SS-7		0.0		SM	Poorly graded **Silty Sand,** fine, **subrounded,** minor thin organic stiff lenses, 1% heavy minerals.	-23.3 / 25.3
55			SS-8		0.0		SP		-29.3
60			SS-10		0.0		SC	**Poorly graded Sand,** fine, **subrounded,** white, **minor slighlty** stiff ctay **lenses,** 1% **heavy** minerals.	-33.3
65			SS-12		0.0		SC	**Clayey Sand, tannish-white,** minor **stiff** clayey **sand lenses,** stiff clay **grading** to fat **ctay from 63** to 65 feet bls, **shell fragments at 65** to 66.5 feet. **End** of boring at **70.5'** bls.	44.8
70									
75									
80									
85									
90									
95									
100									

Notes:
SS = Split Spoon

Samples Collected:
027S001802
027S001812
027S001865

WELL DIAGRAM



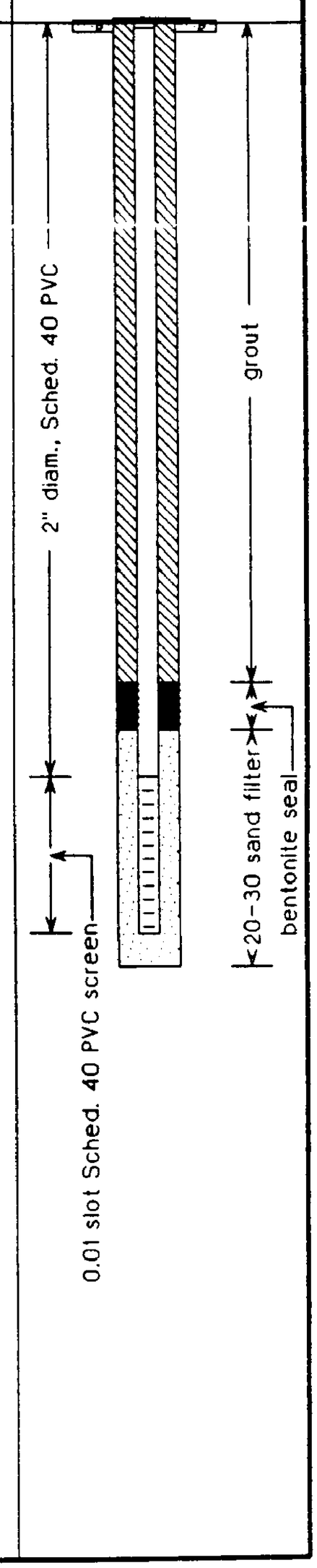
EnSafe/Allen & Hoshall	Monitoring Well 27GI03
Project: *Site 27*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *25.05 feet msl*
Started at *on 6-30-93*	TOC Elevation: *25.38 feet msl*
Completed at *1150 on 6-30-93*	Depth to Groundwater: *18.11 feet* Measured: *4/02/96*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *7.27 feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *62.0 feet*
Geologist: *M Lucking*	Well Screen: *48 to 58 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft msl)
			SS-1				SP	Poorly graded Sand, light brown to tan, minor heavy minerals.	23
35			SS-2				SP	Poorly graded Sand, subrounded, wet.	10 / 11.9
45		a	SS-3				SP	Poorly graded Sand, fine, subrounded to subangular, pale tan, organic matter present in lenses throughout, wet, 1% heavy minerals and rosy. quartz.	20 / -22 / -25
50			SS-4		0.0				
			SS-6						
55			SS-8		0.0				
			SS-7		0.0		SC	Clayey Sand, gray, medium, subrounded, free water throughout interval, clay constitutes matrix, 1% heavy minerals, becomes stiff with depth, fat clay present at bottom of interval. End of boring at 60.0' bls.	-37
60			SS-8						
			SS-8						

Nutes:
SS = Split Spoon

Samples Collected:
027S001900 - plus gamma
027K001900
027X001900
027S001901
027S001902
027S001946
027S001958
027S001960
027S001962

WELL DIAGRAM



EnSafe/Allen & Hoshall

Monitoring Well 276104

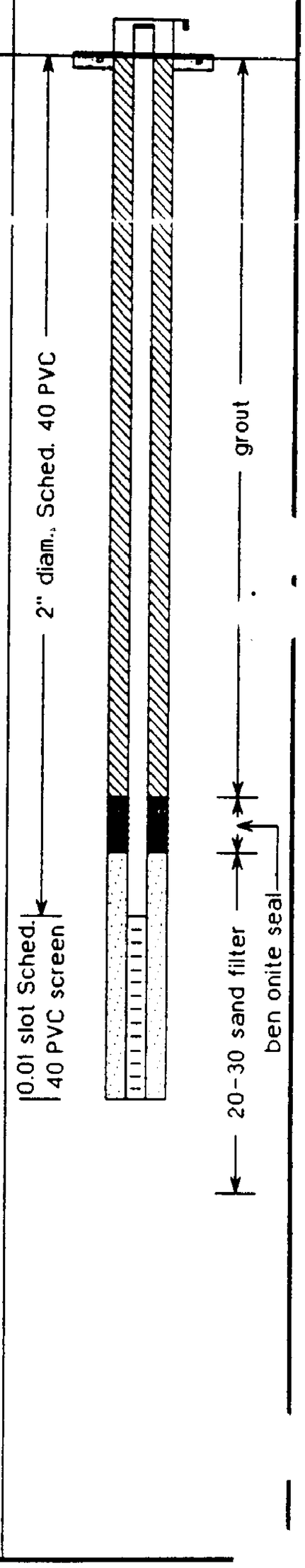
Project: *Site 27*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *21.69 feet msl*
Started at *1110 on 7-01-93*	TOC Elevation: *23.75 feet msl*
Completed at *1650 on 7-01-93*	Depth to Groundwater: *17.70 feet* Measured: *4/02/96*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *6.05 feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *64 feet*
Geologist: *M. Lucking*	Well Screen: *47 to 57 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
35			SS-3				SC	Clayey to Silty **Sand, brown, clay and silt lenses 1-3 cm thick.**	13.3
									-63
45			SS-4		0.0		SP	Poorly **sorted Sand,** fine, **subrounded, clean, white, wet.**	-233
									25.3
55			SS-5		0.0		SC	**Clayey Sand,** fine, **subrounded, <1% heavy minerals, wet,**	33.3
									-353
60			SS-6		0.0		SC		38.3
			SS-6	70				Clayey Sand, stiff, shell **fragments** throughout, **fat** clay in lower protion. End of **boring** at *84.0'* bls.	-42.3

Notes:
SS = Split spoon

Samples Collected:
027S002500
027S002562

WELL DIAGRAM



EnSafe/Allen & Hoshall

Monitoring Well 27GI05

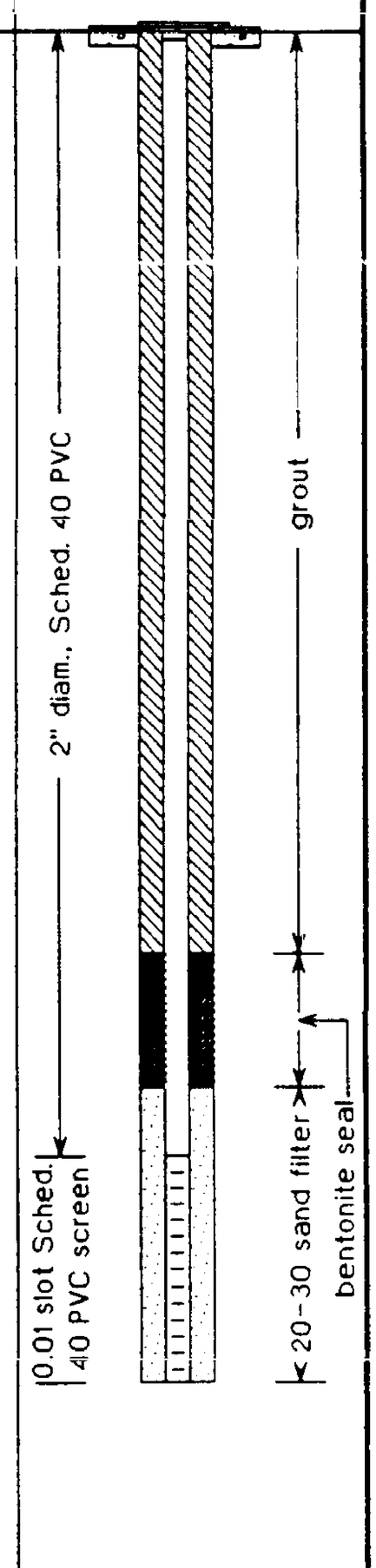
Project: *Site 27*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *25.60 feet msl*
Started at *0630 on 7-08-93*	TOC Elevation: *25.27 feet msl*
Completed at *1400 on 7-08=93*	Depth to Groundwater: *17.45 feet* Measured: *4/02/96*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *7.82 feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *16.0 feet*
Geologist: *M. Lucking*	Well Screen: *50 to 60 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1		0.0		SP	Poorly graded Sand, fine, **subrounded,** grading from reddish-tan to orange to **tan** to white **with** depth, gray mottling from 12 to 14 feet, strong **cedar** chip odor **at** 17 feet bls, **moist** to wet at 18 feet, slimy **and foamy** yellowish **material with sand** from 18 to **20** feet bls.	
			SS-2		0.0				
5			SS-3		0.0				
			SS-4		0.0				
			SS-5		0.0				
10			SS-6		0.0				
			SS-7		0.0				
15			SS-8		120				
			SS-9		85				
			SS-10		20				
20								End of boring at 62.0' bls.	5.6
25									
30									
35									
40									
45									
50									
55									
60			SS-11						
65									
70									
75									
80									

Nates:
SS = Split Spoon

Samples Collected:
027S002700 - **gamma** only
027S002701
027S002702 - **plus** gamma
027K002702
027X002702
027S002704 - **plus gamma**
027S002706 - **plus** gamma
027S002708 - **plus** gamma
027S002710 - **plus** gamma
027S002712 - **plus gamma and gamma** dup
027S002714 - **plus** gamma
027S002716 - plus gamma
027S002718 - **plus** gamma
027K002718
027X002718
027S002720
027C002720
027K002720
0275002762 - **plus** gamma

WELL DIAGRAM



EnSafe/Allen & Hoshall

Monitoring Well 27GI06

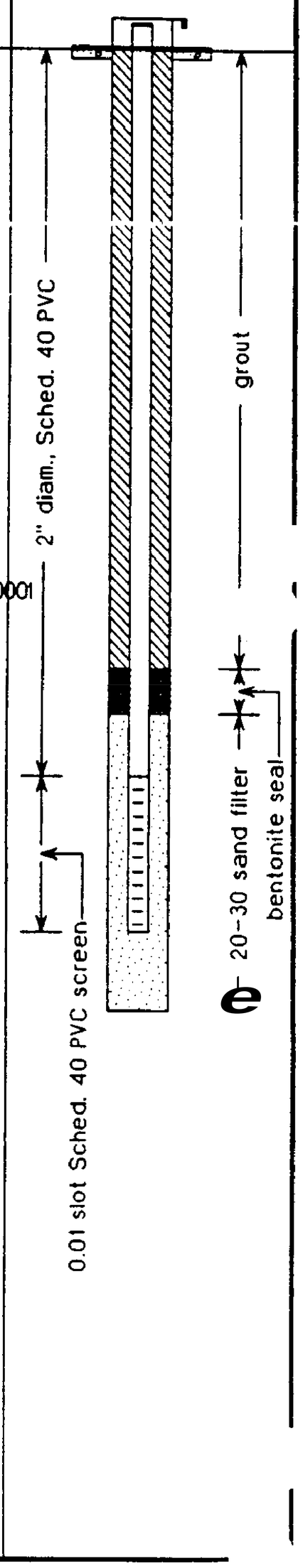
Project: *Site 27*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *25.14 feet msl*
Started at *0900 on 7-21-93*	TOC Elevation: *27.21 feet msl*
Completed at *1150 on 7-21-93*	Depth to Groundwater: *18.89 feet* Measured: *4/02/96*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *8.32 feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *66 feet*
Geologist: *M. Lucking*	Well Screen: *47 to 57 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1		0.0		SM	Silty Sand, some grass, tan, organic, dry.	23.1
5			SS-2		0.0				
			SS-3				S?		
			SS-4		0.0				
10			SS-5		0.0			Poorly graded Sand, fine, subrounded, orangish-tan grading to light tan, up to 1% heavy minerals, slightly moist.	15.1
15									
20									
25									
30									
35			SS-6				SC	Clayey and Silty Sand, fine, subrounded, poorly graded, dark brown.	9.900001 11.9
40									
45			GS-1				SM	Silty Sand, grab sample from bottom of auger.	-19.4 -20.4
50								Silty Sand, dark color, poorly graded subrounded, examined from cuttings returned as borehole advanced.	
55									
60			SS-7		0.0		SC	Clayey Sand, fine, poorly graded, slightly stiff grading to stiff to medium-stiff, shell fragments in 62 to 64 feet interval. End of boring at 64.0' bls.	-34.9
			SS-8		0.0				-38.9
65									
70									
75									
80									
85									
90									
95									

Notes:
SS = Split Spoon GS = Grab Sample

Samples Collected:
027S004900 - gamma only
027S004902 - plus gamma
027S004904 - plus gamma
027S004906
027S004908
0275004910
027S004962
027S004964 - gamma only

WELL DIAGRAM



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Boring 27S07

Project: *Site 27*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist: *M. Lucking*
Started at *1420 on 6-08-93*	Surface Elevation:
Completed at *1600 on 6-08-93*	Depth to Groundwater: Measured:
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *16.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1		3				
		A	SS-2		0.0				
5			SS-3		0.5				
			SS-4		2				
			SS-5		3		SP	Poorly **graded Sand,** fine, **tan grading** to **reddish-tan** from **4** to **8** feet bls, **grading** to **white** with **depth, loose, some asphalt and red** clay **base** in **upper** 2 feet of boring,	
10			SS-6		1				
			SS-7		3.9				
15			SS-8		8			**End of** boring at 16.0' bls.	
20								Notes: SS = Split **Spoon** Samples Collected: 027S000701 027S000702 027S000704 027S000706 **0275000708** 027S000710 027C000710 027S000712 027S000714 027S000716	
25									
30									
35									
40									

EnSafe/Allen & Hoshall

Boring 27S08

Project: *Site 27*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist: *M. Lucking*
Started at *0750 on 6-09-93*	Surface Elevation:
Completed at *0925 on 6-09-93*	Depth to Groundwater: Measured: *6/09/93*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *16.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1		0.0				
			5s-2		0.0				
5			SS-3		0.0				
			SS-4		0.0				
			SS-5		32		SP	Poorly graded Sand, fine, tan to white with depth, gray streaking and mottling, dry to moist with depth, net at 15.5 feet bls.	
10			SS-6		0.0				
			SS-7		0.0				
15			SS-B					End of boring at 16.0' bls.	
20									
25									
30									
35									
40									

Notes:
SS = Split Spoon

Samples Collected:
027S000801
027S000802
0275000804
027C000804 - gamma only
027S000806
027S000808
027S000810
027S000812
027S000814
027S000816

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Boring 27S09

Project: *Site 27*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist: *M. Lucking*
Started at *1051 on 6-09-93*	Surface Elevation:
Completed at *1410 on 6-09-93*	Depth to Groundwater: Measured: 6/09/93
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *16.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1		0.0			Surface **Conditions: 0.5 feet thick asphalt and 1 feet thick base soil**	
			SS-2		0.0				
5			SS-3		0.0				
			SS-4		0.5				
			SS-5		0.0		SP	Poorly **graded Sand,** fine, tan to white **with depth, moist** throughout to **wet at 15.5** feet bls.	
10			SS-6		0.0				
			SS-7		0.0				
15			SS-8		0.0			**End** of **boring at** 16.0' bls.	
20								**Notes:** **SS** = Split Spoon Samples Collected: 027S000900 027S000901 027S000902 - **plus** gamma 027S000904 027C000904 027S000906 027K000906 027X000906 027S000908 027S000910 027S000912 027S000914 027C000914	
25									
30									
35									
40									

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Boring 27511

Project: *Site 27*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist: *M. Lucking*
Started at *1130 on 6-10-93*	Surface Elevation:
Completed at *1425 on 6-10-93*	Depth to Groundwater: Measured:
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *18.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1		0.0				
			SS-2		0.0				
5			SS-3		0.0				
			SS-4		0.0				
			SS-5		0.0		SP	Poorly graded Sand, tan to white with depth, gray mottling throughout, to wet at 17.5 feet bls.	
10			SS-6		2				
			SS-7		0.0				
15			SS-B		0.0				
			SS-9		0.0			End of boring at 18.0' bls.	
20								Notes: SS = Split spoon	
25								Samples Collected: 027S001104 027C001104 027S001106 027S001108 027K001108 027X001108 027S001110 027S001112 027S001114 027S001116 027S001118	
30									
35									
40									

EnSafe/Allen & Hoshall

Boring 27S12

Project: *Site 27*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist: *M. Lucking*
Started at *1440 on 6-10-93*	Surface Elevation:
Completed at *1616 on 6-10-93*	Depth to Groundwater: Measured: *6/10/93*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *18.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1						
			SS-2						
5			SS-3						
			SS-4						
			SS-5				SP	Poorly **graded Sand,** tan **grading** to **reddish-tan** from **4 to 8** feet bls, **grading** to white from 8 feet **bls to total depth, becoming** wet from 10 to **12** feet bls, **gray** mottling **from 6 to 8** feet bls.	
10			SS-6						
			SS-7						
15			SS-8						
			SS-9					**End** of boring at 18.0' bls.	
20								Notes: **SS =** Split Spoon Samples Collected; 027S001202 027S001204 027C001204 – gamma only 027S001206 027S001208 027S001210 027S001212 027S001214 027K001214 027X001214 027S001216	
25									
30									
35									
40									

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Boring 27S13

Project: *Site 27*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist: *M. Lucking*
Started at *0830 on 6-14-93*	Surface Elevation:
Completed at *1039 on 6-14-93*	Depth to Groundwater: Measured: *6/14/93*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *20.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1		0.0			**Surface Conditions: Asphalt with sand base**	
			SS-2		0.0				
5			SS-3		0.1				
		A	SS-4		0.0				
		A	SS-5		3			Poorly **graded Sand, brown** to **medium tan** in upper **8** fee! **grading** to tan **from 8 to 12** feet bls, **grading** to **white sand from 12** feet bls to **total depth, dry** in upper portion **becoming moist and consolidated** then **wet at** 18 feet bls.	
10		A	SS-6		10		SP		
		A	SS-7		<1				
15		A	SS-8		15				
			SS-9		1				
			SS-10					**End** of boring **ai** 20.01 bls.	
20									
25								Notes: SS = **Split** Spoon **Samples** Collected: 027S001300 - gamma only 027S001302 - plus **gamma** 027S001304 - plus **gamma** 027S001306 027S001308 027S001310 027S001312 027C001312 027S001314 027K001314 027X001314 027S001316 027S001318	
30									
35									
40									

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Boring 27S14

Project: *Site 27*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist: *M. Lucking*
Started at *1520 on 6-14-93*	Surface Elevation:
Completed at *1636 on 6-14-93*	Depth to Groundwater: Measured:
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *18.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1		0.0				
			SS-2		0.0				
5			SS-3						
			SS-4		0.5				
			SS-5		0.2		SP	Poorly **graded Sand, tan grading** to **reddish** tan (4 to **8** feet bls) **grading** to **white sand** from 8 feet bls to total **depth, moist** from **2 to 10 feet** bls.	
10			SS-6		0.0				
			SS-7		0.0				
15			SS-8		0.0				
			SS-9		0.0			**End** of boring at 18.0' bls.	
20								Notes: **SS =** Split Spoon	
25								**Samples** Collected: 027S001402 - **ptus gamma and gamma** dup 027S001404 - **plus** gamma 027S001406 - **plus** gamma 027S001408 - **plus** gamma 027S001410 - **plus** gamma 027S001412 - plus gamma 027S001414 - plus gamma 027C001414 027S001416 - plus gamma	
30								027S001418 027C001418 027K001418 027X001418	
35									
40									

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Boring 27S15

Project: *Site 27*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist: *M. Lucking*
Started at *1430 on 6-15-93*	Surface Elevation:
Completed at *1554 on 6-15-93*	Depth to Groundwater: Measured:
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *18.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1		9				
			SS-2		0.0				
5			SS-3		0.0				
			SS-4						
			SS-5		4		SP	Poorly graded Sand, moist, tan grading to white at 12 feet.	
10			SS-6		0.0				
			SS-7		0.0				
15			SS-8		2				
			SS-9		0.0			End of boring at 18.0' bls.	
20									
25									
30									
35									
40									

Notes:
SS = Split Spoon

Samples Collected:
027S001500 - **gamma** only
027S001501
027S001502 - gamma only
027S001504 - **plus gamma**
027K001504
027X001504
027S001506 - **gamma** only
027S001508 - **gamma** only
027S001510 - **gamma** only
027S001512 - gamma only
027S001514 - **plus** gamma
027S001516
027S001518

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Boring 27S16

Project: *Site 27*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist: *M. Lucking*
Started at *0730 on 6-16-93*	Surface Elevation:
Completed at *1130 on 6-16-93*	Depth to Groundwater: Measured:
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *59.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1		0.0		SP	Poorly **graded Sand,** tan, **slightly moist.**	25.2 -232
5									
10			SS-2		0.0		SP	Poorly **graded Sand, fine** to **medium,** white to **whitish-tan, moist.**	17.2 15.2
15									
20									
25									
30									
35			SS-3		0.0		SP	Poorly **graded** Sand, fine to **medium,** rounded to **subangular,** organic matter present throughout, wet.	7.8 -9.8
40							SP		12.8

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Boring 27S16

Project: *Site 27*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist: *M. Lucking*
Started at *0730 on 6-16-93*	Surface Elevation:
Completed at *1130 on 6-16-93*	Depth to Groundwater: Measured:
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *59.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-4		0.0		SP	Poorly graded Sand, fine, rounded to subrounded, 1% heavy minerals, wet, dark brown water stain.	12.8 / 14.8
45			SS-5		0.0		SP	Poorly graded Sand, fine, rounded to subrounded, wet, low organic content.	17.8 / 19.8
50			SS-6		0.0		SC	Poorly graded Sand and Clay, fine, rounded to subrounded, minor clay matrix, <1% heavy minerals, little odor, dirty gray water staining.	22.8 / 24.8
55			SS-7				SC CL	Poorly graded Sand and Clay, grading from stiff clay with up to 50% sandy lenses to stiff clay with 10% sandy lenses,	27
			SS-8				CL	Clay, stiff with minor sandy lenses grading to fat Clay with shells and shell fragments. End of boring at 60.0' bls.	29.8 / 31.8
60									
65									
70									
75									
80									

Notes:
SS = Split Spoon

Samples Collected;
027S001604 - plus gamma
027S001612
027S001657 - gamma only
027S001659

EnSafe/Allen & Hoshall

Boring 27S17

Project: *Site 27*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist: *M. Lucking*
Started at *0740 on 6-17-93*	Surface Elevation:
Completed at *0900 on 6-17-93*	Depth to Groundwater: Measured:
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *8.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1		0.0				
		A	SS-2				SP	Poorly **graded Sand, medium-tan grading** to **brown grading** to **reddish-** tan fine, **dry** at tog ranging to **moist** at 6 **to 8 feet** bls. Hydraulic oil **leak** in drilling rig; cease activities.	
5		A	SS-3		0.0				
		A	SS-4		0.0			**End** of **boring** at 8.0' bls.	
10								Notes: SS = Split Spoon Samples Collected: 027S001700 - gamma only 027S001701 - plus **gamma** 027S001702 - **plus gamma** 027C001702 027S001704 - **plus gamma** 027S001706 027C001706 027S001708	
15									
20									
25									
30									
35									
40									

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Boring 27521

Project: *Site 27*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist: *S. Parker*
Started at *0815 on 6-30-93*	Surface Elevation:
Completed at *0945 on 6-30-93*	Depth to Groundwater: Measured: *6/30/93*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *16.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1	66				Surface Conditions: Grassy area adjacent to wall and parking lot.	
			SS-2	100					
5			SS-3	100					
			SS-4	100	15				
			SS-5	100	0.0		SP	Poorly graded Sand, fine to medium, yellowish-orange-brown grading to buff white with depth, trace to 3% heavy minerals (increases with depth), wet at 15 feet.	
10			SS-6	100	9				
			SS-7	100	0.0				
15			SS-8	100	0.0			End of boring at 18.0' bls.	
20								Notes: SS = Split Spoon Samples Collected: 027S002100 - gamma only 027S002102 027S002104 027S002106 027S002108 027S002110 027S002112 027S002114 027S002116	
25									
30									
35									
40									

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Boring 27S22

Project: *Site27*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist:
Started at *on 6-30-93*	Surface Elevation:
Completed at *on 6-30-93*	Depth to Groundwater: Measured:
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *16.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1					**Surface Conditions: aspphalt fill, asphalt base**	
			SS-2		77				
5			ss-3		23				
			SS-4		0.0				
			SS-5		11.5		SP	**Poorly graded Sand, fine, subrounded,** tan **to reddish** tan to **whitish-** tan **with depth,** trace to **1% heavy** minerals (increases with **depth), wet** at 15 feet.	
10			SS-6		11				
			SS-7		9.8				
15			SS-8					**End of boring** at 16.0' bls.	
20								**Notes:** **SS =** Split Spoon **Samples** Collected; 027S002200 - **gamma** only **0275002202** 027C002202 027S002204 - **plus gamma** **0275002208** - plus gamm **0275002208 - plus gamma** 0275002210 - **plus** gamma **and** gamma dup **0275002212** - plus **gamma** **0275002214** - **plus** gamma **0275002216** - **gamma** only	
25									
30									
35									
40									

EnSafe/Allen & Hoshall

Boring 27S23

Project: *Site 27*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist:
Started at *on 6-30-93*	Surface Elevation:
Completed at *on 6-30-93*	Depth to Groundwater: Measured:
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *16.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1						
			SS-2		10.3				
5			SS-3		28				
			SS-4		190				
			SS-5		26		SP	Poorly **graded Sand, subrounded, tan** to **reddish** tan **to** whitish- tan **with depth, trace to 2% heavy minerals (increases with depth), dry** at top with **plant roots, wet** at **15** feet,	
10			SS-6		29				
			SS-7		20				
15			SS-8					**End of boring** at **16.0'** bls.	
20								**Notes:** SS = Split Spoon **Samples Collected:** 027S002300 - plus gamma 027S002302 - plus gamma 027S002304 - plus gamma 027S002306 027S002308 027S002310 027S002312 027S002314	
25									
30									
35									
40									

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Boring 27S24

Project: *Site 27*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist:
Started at *on 1-0-93*	Surface Elevation:
Completed at *on 1-0-93*	Depth to Groundwater: Measured:
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *16.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1		0.0				
			SS-2		0.0				
5			SS-3		0.0				
			SS-4		0.0				
			SS-5		**0.0**		SP	Poorly **graded** Sand, fine, **subrounded**, **reddish** tan to white **with** depth, gray mottling, **moist** to **wet** at **18** feet.	
10			SS-6		0.0				
			SS-7		0.0				
15			SS-8					End of boring at 16.0' bls.	
20								Notes: SS = Split Spoon Samples Collected: 027S002400 - plus gamma 027S002402 - plus gamma 027S002404 - plus gamma 027S002406 027S002408 027S002410 027S002412 027S002414 027S002416	
25									
30									
35									
40									

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Boring 27S28

Project: *Site 27*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist: *S. Parker*
Started at *0830 on 7-08-93*	Surface Elevation:
Completed at *0930 on 7-08-93*	Depth to Groundwater: Measured:
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *4.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	≈LEV. (ft-msl)
			SS-1	50	0.0		SW	Surface Conditions; Asphalt cover on concrete slab	
			SS-2	75	0.0			Well graded Sand, fine to coarse, brown to dark gray, gravel prevalent (fill material) in upper portion of boring.	
5								End of boring at 4.0' bls.	
10								Notes: SS = Split Spoon Samples Collected: 027S002802 - plus gamma 027S002804 - plus gamma	
15									
20									
25									
30									
35									
40									

EnSafe/Allen & Hoshall

Boring 27S29

Project: *Site 27*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist: *S. Parker*
Started at *1050 on 7-08-93*	Surface Elevation:
Completed at *1200 on 7-08-93*	Depth to Groundwater: Measured: *7/08/93*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *20.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	≈LEV. (ft-msl)
			SS-1	75	0.0			Surface Conditions: Concrete (6-inches thick)	
			SS-2	a3	0.0				
5			SS-3	92	0.0				
			SS-4	100	0.0				
			SS-5	100	1			Poorly **graded Sand, fine** to **medium, yellowish-orange grading** to light **tan to white with depth, brown mottling** to **8.5 feet,** 1 **to 2% heavy minerals** throughout changing to **10% heavy** minerals from 18 to 20 feet, **wet at** 18 feet.	
10			SS-6	100	6		SP		
			SS-7	83	8				
15			SS-8	83	5				
			SS-9	92	0.0				
			SS-10		0.0			**End** of boring at 20.0' bls.	
20									
25									
30									
35									
40									

Notes:
SS = Split Spoon

samples Collected:
027S002902 - plus gamma
027S002904 - **plus gamma and gamma** dup
027S002906
027S002908
027S002910
027K002910
027X002910
027S002912
027S002914
027S002916
027S002918

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Boring 27S30

Project: *Site 27*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist: *S. Parker*
Started at *1445 on 7-08-93*	Surface Elevation:
Completed at *1549 on 7-08-93*	Depth to Groundwater: Measured:
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *18.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1	75	0.0			**Surface Conditions:** Concrete **(8-inches thick)**	
			SS-2	92	11				
5			SS-3	92	8				
			SS-4	92	0.0				
			SS-5	92	0.0		SP	**Poorly graded Sand,** fine **to medium, yellowish-orange grading** to light tan to **white with depth, brown** mottling changing **to gray with** depth, 1 to 2% heavy minerals throughout - **5%** from **14** to **16** feet, **wet at 18** feet.	
10			SS-6	92	0.0				
			SS-7	92	0.0				
15			SS-8	92	0.0				
			SS-9	92	0.0			**End** of boring at 18.0' bls.	
20									
25									
30									
35									
40									

Notes:
SS = Split Spoon

Samples Collected:
027S003000 - **gamma** only
027S003002 - plus **gamma**
027S003004 - **plus** gamma
027S003006
027S003008
027S003010
027S003012
027K003012
027X003012
027S003014
027K003014
027X003014
027S003016
027S003018

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Boring 27S31

Project: *Site 27*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist:
Started at *on 7-09-93*	Surface Elevation:
Completed at *on 7-09-93*	Depth to Groundwater: Measured:
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *16.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1		0.0				
			SS-2		0.0				
5			SS-3						
			SS-4		0.0				
			SS-5		0.0		SP	Poorly **graded Sand,** fine, **yellowish-orange grading** to light tan to white **with depth,** orange **and gray** mottling **from 8** feet **to** total **depth, dry to moist** to **wet at 16** feet.	
MI			SS-6						
			SS-7		25				
15			SS-8		5			**End** of boring **at** 16.0' bls.	
20								Notes: SS = Split Spoon Samples Coltected: 027S003101 027K003101 027X003101 027S003104 - **gamma** only	
25									
30									
35									
40									

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Boring 27S32

Project: *Site 27*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist:
Started at *on 7-09-93*	Surface Elevation:
Completed at *on 7-09-93*	Depth to Groundwater: Measured:
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *4.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1	50	0.0		SP	Surface Conditions:	
			SS-2	75	0.0			Poorly graded Sand, fine, orangish-tan to tan, subrounded, dark tan mottling, dry.	
5								End of boring at 4.0' bls.	
10									
15									
20									
25									
30									
35									
40									

Notes:
SS = **Split** spoon

Samples Collected:
027S003200 - gamma only
027S003202
027S003204 - **plus** gamma

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Boring 27S33

Project: *Site 27*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist:
Started at *on - -93*	Surface Elevation:
Completed at *on - -93*	Depth to Groundwater: Measured: *1993*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *20.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1		0.0				
			SS-2		0.0				
5			SS-3		22				
			SS-4		0.0				
			SS-5		0.0			Poorly **graded Sand,** fine, **subrounded, yellowish-orange grading** to light **tan to** white **with** depth, **gray** mottling from **8** to **14** feet, **dry to moist to** wet at 18 feet, **"sugar sand" texture** from **14** to **16** feet, 1% **heavy minerals** throughout	
10			SS-6		0.0		SP		
			SS-7		0.0				
15			SS-8		0.0				
			SS-9		0.0				
20			SS-10		50			**End** of boring at **20.0'bls.**	
25								**Notes:** SS = Split Spoon Samples Collected: 027S003300 - **gamma** only 027S003302 - **plus gamma** 027S003304 - **plus** gamma 027S003306 027K003306 027X003306 027S003308 027S003310 027S003312 027S003314 027S003316 027S003318 027K003318 027X003318 027S003320 027K003320 027X003320	
30									
35									
40									

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Boring 27S34

Project: *Site 27*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist:
Started at *on - -93*	Surface Elevation:
Completed at *on - -93*	Depth to Groundwater: Measured:
Drilling Method:	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *0.5 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			GS-1	100			SM	**Surface Conditions:** Silty **Sand, fine, dark** organic matter **with** interstitial **sand and** roots from **nearby vegetation. End of boring at 0.5'bls.**	
5								Notes: **GS** = **Grab** Sample	
								Samples Collected: 027S003400 - gamma only	
10									
15									
20									
25									
30									
35									
40									

EnSafe/Allen & Hoshall	Boring 27S35
Project: *Site 27*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist:
Started at *on - -93*	Surface Elevation:
Completed at *on - -93*	Depth to Groundwater: Measured:
Drilling Method:	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *0.5 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			GS-1	100			SP	**Surface Conditions:** Poorly graded Sand, fine to medium, medium-tan with individual white and black grains, surface sample at soil gas point SG-109. End of boring at 0.5 bls.	
5								**Notes:** GS = Grab Sample	
								Samples Collected: 027S003500 - gamma only	
10									
15									
20									
25									
30									
35									
40									

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Boring 27S37

Project: *Site 27*	Location: *NAS Pensacola*
Project No: *0058-00030*	Geologist:
Started at *on - -93*	Surface Elevation:
Completed at *on - -93*	Depth to Groundwater: Measured:
Drilling Method:	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *0.5 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			GS-1	100			SP	**Surface Conditions:** Poorly **graded Sand, fine to medium, medium-tan with individual** white **and black grains, surface sample. End of boring at 0.5' bls.**	4
5								Notes: **GS** = **Grab Sample**	
								Samples Collected; 027S003700 - gamma and gamma dup	
10									
15									
20									

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Boring 27S38

Project: *Site 27*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist:
Started at *on - -93*	Surface Elevation:
Completed at *on - -93*	Depth to Groundwater: Measured:
Drilling Method:	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *0.5 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	≈LEV. (ft-msl)
	X	◢	GS-1	100			SP	Surface Conditions: Poorly graded Sand, fine to medium, medium-tan with individual white and black grains, surface sample. End of boring at 0.5' bls.	
5								Notes: GS = Grab Sample	
								Samples Collected: 027S003800 - gamma only	
10									
15									
20									
25									
30									
35									
40									

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Boring 27S39

Project: *Site 27*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist:
Started at *on - -93*	Surface Elevation:
Completed at *on - -93*	Depth to Groundwater: Measured:
Drilling Method:	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *0.5 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV (ft-msl)
			GS-1	100			SP	**Surface Conditions:** Poorly graded Sand, fine to medium, medium-tan with individual white and black grains, surface sample. End of boring at 0.5' bls.	
5								**Notes:** GS = Grab Sample	
								Samples **Collected:** 027S003900 - gamma only	
10									
15									
20									
25									
30									
35									
40									

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Boring 27S40

Project: *Site 27*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist: *S. Parker*
Started at *0915 on 7-14-93*	Surface Elevation:
Completed at *1030 on 7-14-93*	Depth to Groundwater: Measured: *7/14/93*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *18.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1	50	0.0			Surface Conditions: 8-inch thick Concrete (appears to be fill material beneath)	
			SS-2	50	11				
5			SS-3	33	8				
			SS-4	0	0.0				
			SS-5	83	0.0		SP	Poorly graded Sand, fine to medium, yellowish-orange grading to light tan to white with depth, brown mottling changing to orange with depth, 1 to 2% heavy minerals throughout - 5% from 8 to 10 feet and 7% from 14 to 16 feet, dry in upper area of boring, becoming moist with depth and wet at 17.5 feet bls.	
10			SS-6	63	0.0				
			SS-7	83	0.0				
15			SS-8	83	0.0				
			SS-9	100	0.0			End of boring at 18.0' bls	
20								Notes: SS = Split Spoon	
25								Samples Coltected: 027S004000 - plus gamma 027S004002 - plus gamma 027S004004 027S004006 027S004010 027S004012 027S004014 027S004016 027K004016 027X004016 027S004018 027K004018 027X004018	
30									
35									
40									

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Boring 27S42

Project: *Site 27*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist: *S. Parker*
Started at *0837 on 7-15-93*	Surface Elevation:
Completed at *0930 on 7-15-93*	Depth to Groundwater: Measured: *7/15/93*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *16.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1	92	0.0			surface Conditions: Grassy area adjacent to parking lot	
			SS-2	92	0.0				
5			SS-3	92	0.2				
			SS-4	92	106				
			SS-5	92	10		SP	Poorly graded Sand, fine to medium, yellowish-orange grading to light tan to white with depth, black staining to 6 feet, brown to orange- brown mottling from 4 to 12 feet, dry to moist to wet at 14.5 feet.	
10			SS-6	83	0.0				
			SS-7	75	0.0				
15			SS-8	100				End of boring at 16.0' bls.	
20								Notes: SS = Split spoon Samples Collected: 027S004200 - gamma only 027S004202 - plus only 027K004202 027X004202 027S004204 - plus gamma 027S004206 027K004206 027X004206 027S004208 027S004210 027S004212 027S004214 027K004214 027X004214	
25									
30									
35									
40									

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Boring 27S44

Project: *Site 27*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist: *S. Parker*
Started at *1135 on 7-15-93*	Surface Elevation:
Completed at *1138 on 7-15-93*	Depth to Groundwater: Measured:
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *4.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1	50	58		SM	**Surface Conditions: Grassy median adjacent to conrete parking** tot	
			SS-2	0				Poorly **graded Sand with some Silt, fine to medium, dark brown, organic-rich.**	
5								**End of boring at 4.0'bls.**	
10									
15									
20									
25									
30									
35									
40									

Notes:
SS = Split Spoon

Samples Collected:
027S004400 - **plus gamma**
027S004402

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Boring 27543

Project: *Site 27*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist: *S. Parker*
Started at *1015 on 7-15-93*	Surface Elevation:
Completed at *1025 on 7-15-93*	Depth to Groundwater: Measured:
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *8.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1	83	0.0			**Surface Conditions: Grassy area adjacent to Oyster Shell Drive**	
			SS-2	92	48		SP	Poorly **graded Sand,** fine to **medium,** yellowish-orange, **brown** mottling from **2** feet to total **depth, up** to **5% heavy minerals** throughout.	
5			SS-3	92	8				
			SS-4					End of **boring at** 8.0' bls.	
10								**Notes:** **SS** = Split Spoon Samples Collected: 027S004302 - **plus gamma** 027S004304 - plus gamma 027S004306 027S004308	
15									
20									
25									
30									
35									
40									

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Boring 27S45

Project: *Site 27*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist: *S. Parker*
Started at *1317 on 7-15-93*	Surface Elevation:
Completed at *1324 on 7-15-93*	Depth to Groundwater: Measured:
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *8.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1	92	4		SM	Surface Conditions: Grassy area adjacent to Oyster Shelf Drive Poorly graded Silty Sand, fine to medium, dark brawn, organic-rich, possible granular tar or asphalt incorporated within interval.	
			SS-2	82	25		SP	Poorly graded Sand, fine to medium, yellowish-orange, dark brown mottling, 1 to 3% heavy minerals throughout, tar stain from 4 to 6 feet bls.	
5			SS-3	Q2	8				
			SS-4	92	0.0			End of boring at 8.0' bls.	
10								Notes: SS = Split Spoon Samples Collected: 027S004500 - gamma and gamma dup 027S004502 027K004502 027X004502 027S004504 027S004506 027S004508	
15									
20									
25									
30									
35									
40									

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Boring 27S46

Project: *Site 27*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist: *S. Parker*
Started at *1317 on 7-15-93*	Surface Elevation:
Completed at *1324 on 7-15-93*	Depth to Groundwater: Measured:
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *8.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1	75	0.0		SM	**Surface Conditions: Grassy median adjacent to asphalt parking** lot **Poorly graded** Silty **Sand,** fine to **medium, reddish-brown to yellowish-orange, dark brown mottling, organic-rich, minor gravel in lower 6 inches** of interval, 1 to **3% heavy minerals.**	
			SS-2	a3	0.0				
5			SS-3	50	20		SP	Poorly **graded Sand, fine** to **medium, yellowish-orange, orange** to **brown** mottling throughout, **shell** fragments from **2** to **4 feet,** up to **3%** heavy minerals, **minor red clay matrix from 2** to **6** feet bls.	
			SS-4	83	49			**End** of **boring** at **8.0'** bls.	
10								Notes: SS = Split **Spoon** **Samples Collected:** 027S004600 - **gamma** only 027S004602 - **plus gamma** 027S004604 - **plus** gamma 027S004606 - **plus gamma** 027S004608 - plus **gamma**	
15									
20									
25									
30									
35									

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Boring 27S47

Project: *Site 27*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist: *S. Parker*
Started at *1435 on 7-15-93*	Surface Elevation:
Completed at *1442 on 7-15-93*	Depth to Groundwater: Measured:
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *8.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1	83	0.0		SM	Surface Conditions: Grassy area adjacent to asphalt parking lot Poorly graded Silty Sand, fine to medium, yellowish-orange, brawn mottling, organic-rich, 1 to 3% heavy minerals.	
			SS-2	83	52			Poorly graded Sand, fine to medium, yellowish-orange, orange to brown mottling throughout, dark brown to black tar or asphalt fragments, 1 to 3% heavy minerals	
5			SS-3	83	50		SP		
			SS-4	83	0.0			End of boring at 8.0' bls.	
10								Notes; SS = Split Spoon Samples Collected: 027S004700 - gamma only 027S004702 - plus gamma 027S004704 027S004706 027K004706 027X004706	
15									
20									
25									
30									
35									
40									

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Boring 27S50

Project: *Site 27*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist:
Started at *on 8-05-93*	Surface Elevation:
Completed at *on 8-05-93*	Depth to Groundwater: Measured: *1993*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *18.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	≈LEV. (ft-msl)
			SS-1		0.0				
			SS-2		0.0				
5			SS-3		0.0				
			SS-4		0.0				
			SS-5		0.0		SP	Poorly **graded Sand,** fine, **reddish-tan grading to orange-tan** to white **with depth, slightly moist** to **moist - wet** at **15** feet, **1% heavy minerals** throughout.	
10			SS-6		0.0				
			SS-7		0.0				
15			SS-8		0.0				
			SS-9		0.0			**End** of boring at 18.0' bls.	
20								**Notes:** **SS** = Split Spoon	
25								Samples Collected: 027S005000 - gamma and gamma dup 027S005002 - plus gamma 027K005002 027X005002 027S005004 - plus gamma 027S005006 - plus gamma **0275005008** - plus gamma 027S005010 - plus gamma 027S005012 - plus gamma 027K005012 027X005012 027S005014 027S005016 027K005016 027X005016	
30									
35									
40									

EnSafe/Allen & Hoshall

Boring 27S51

Project: *Site 27*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist:
Started at *0920 on 7-02-93*	Surface Elevation:
Completed at *1000 on 7-02-93*	Depth to Groundwater: Measured:
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *18.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1	75	0.0			**Surface Conditions: Asphalt parking lot with red clay and sand base**	
			SS-2	83	0.0				
5			SS-3	83	68				
			SS-4	83	0.0		SP		
			SS-5	92	0.0			Poorly **graded Sand, fine** to **medium, yellowish-orange** to light tan, **brown** to **dark brown mottling, asphalt fragments present from surface** to 4 feet bls, **dark staining from 2 to 4 feet, up to 2% heavy minerals throughout.**	
10			SS-6	92	0.0				
			SS-7	83	0.0			End of boring at 14.0' bls.	
15								Notes: SS = Split Spoon **Samples** Collected: 027S005102 - **plus gamma** 027S005104 - **plus gamma** 027S005106 027S005108 027S005110 027S005112 027S005114 027K005114 027X005114	
20									
25									
30									
35									
40									

EnSafe/Allen & Hoshall

Boring 27S52

Project: *Site 27*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist:
Started at *on - -93*	Surface Elevation:
Completed at *on - -93*	Depth to Groundwater: Measured:
Drilling Method:	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *0.5 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			GS-1	100			SP	Poorly **graded Sand,** tan, **dry,**	
			HA-1						
			HA-2						
			HA-3						
			HA-4					**End** of **boring** at **4' bls.**	
5									
10								Notes: GS = Grab Sample **Samples** Collected: 027S005200 - plus gamma 027S005201 **0275005202** - plus gamma 027S005204	
15									
20									
25									
30									
35									
40									

EnSafe/Allen & Hoshall

Boring 27S53

Project: *Site 27*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist:
Started at *on - -93*	Surface Elevation:
Completed at *on - -93*	Depth to Groundwater: Measured:
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *2 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			GS-1	100			SP	Hit pipe.	
			HA-1						
			HA-2						
5									
10									
15									
20									
25									
30									
35									
40									

Notes:
GS = **Grab Sample**
HA = **Hand Auger** Sample

Samples Collected:
027S005300 - **plus** gamma
027S005301 - **plus** gamma
027S005302 - **plus gamma**

EnSafe/Allen & Hoshall

Boring 27S54

Project: *Site 27*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist:
Started at *on - -93*	Surface Elevation:
Completed at *on - -93*	Depth to Groundwater: Measured:
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *0.5 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
	X	■	GS-1	100			SP	**Surface Conditions:** Soil	
5									
10									
15									
20									
25									
30									
35									
40									

Notes:
GS = **Grab Sample**

Samples Collected.
027S005400 - gamma only

EnSafe/Allen & Hoshall

Boring 27S55

Project: *Site 27*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist:
Started at *on - -93*	Surface Elevation:
Completed at *on - -93*	Depth to Groundwater: Measured:
Drilling Method:	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *225 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE ID	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			GS-1 HA-1 HA-2 HA-3				SP	**Sand,** light tan to **brown, dry to slighly moist** **End of boring at 3'** bls.	
5								Notes: SS = Split Spoon Samples **Collected:** 027S005500 - gamma and **gamma** dup 027S005501 - **gamma** only 027S005502 - gamma only **0275005503** - gamma **only**	
10									
15									
20									
25									
30									
35									
40									

EnSafe/Allen & Hoshall

Monitoring Well 30GS06

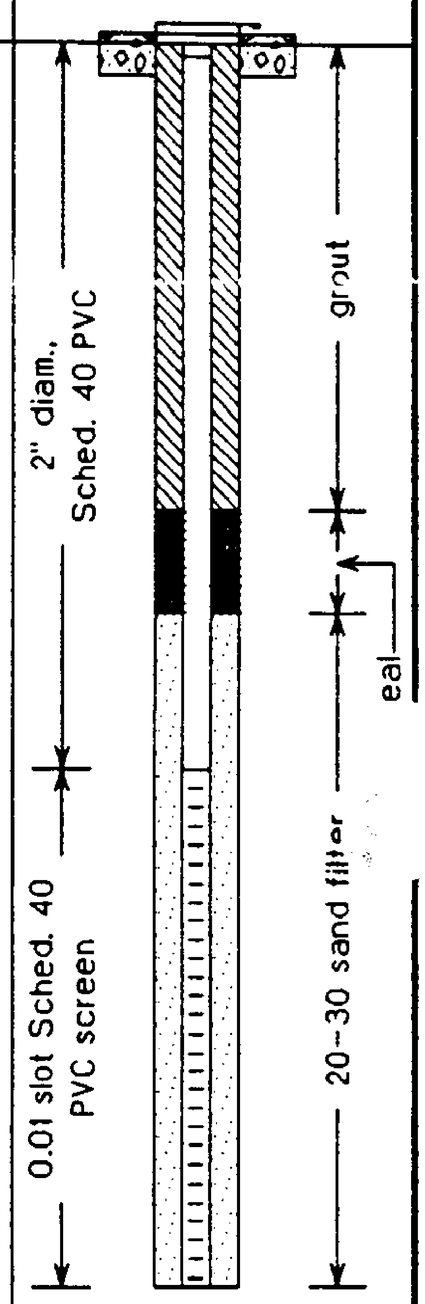
Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *26.83 feet msl*
Started at *0810 on 8-11-93*	TOC Elevation: *26.57 feet msl*
Completed at *0935 on 8-11-93*	Depth to Groundwater: *15.42 feet* Measured: *4/02/96*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *11.15 feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *24.0 feet*
Geologist: *S. Howard*	Well Screen: *14 to 24 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-t	79	0			Surface Conditions: Asphalt	
			SS-2	83	0				
5			SS-2	79	4				
			SS-4	79	11				
			SS-5	03	9		SP	Poorly **graded Sand,** fine, **brown grading** to **yellowish-orange** to **white** with **depth, moist** throughout to **wet at** 16 feet, minor heavy **minerals.**	
10			SS-6	83	5.5				
			SS-7	92	19				
15			SS-a	83	0				
			SS-9	83	3				8.8
20									
								End of **boring** at **24.0'** bls.	
25									
30									
35									
40									

Notes:
SS = Split Spoon

Samples Collected:
030S000602
030S000604
030C000604
030K000604
030X000604
030S000606
030S000608
030S000610
030S000612
030S000614
030S000616

WELL DIAGRAM



EnSafe/Allen & Hoshall

Monitoring Well 30GS05

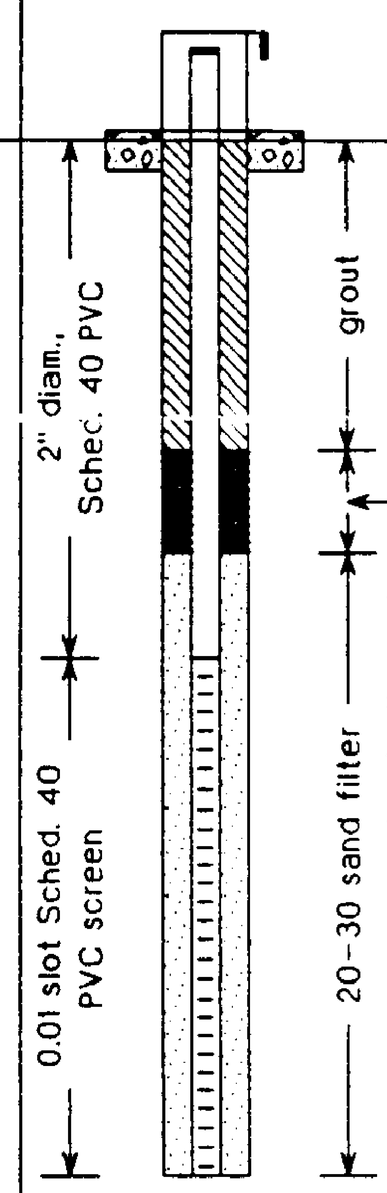
Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *18.24 feet msl*
Started at *1110 on 8-12-93*	TOC Elevation: *20.32 feet msl*
Completed at *1230 on 8-12-93*	Depth to Groundwater: *13.96 feet* Measured: *4/02/96*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *6.36 feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *20.0 feet*
Geologist: *S. Howard*	Well Screen: *10 to 20 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1	88	26			Surface **Conditions: Grass**	
			SS-2	92	66				
5			SS-3	88	6				
			SS-4	83	65		SP	Poorly **graded Sand,** fine, **yellowish-brown** grading to **yellowish-orange** to **white with** depth, loose, **dry to moist at 8** feet to wet **at 14** feet+ roots at **4** to **6 and 8** to 8.5 feet,	
			SS-5	88	38				
10			SS-6	83	15				
			SS-7	75	8				
									42
15									
								End of boring at 20.0' bls.	
20									
25									
30									
35									
40									

Notes:
SS = Split Spoon

Samples Collected:
030S000502
030S000504
030S000506
030S000508
030C000508
030S000510
030S000512
030S000514

WELL DIAGRAM



EnSafe/Allen & Hoshall

Monitoring Well 30GS11

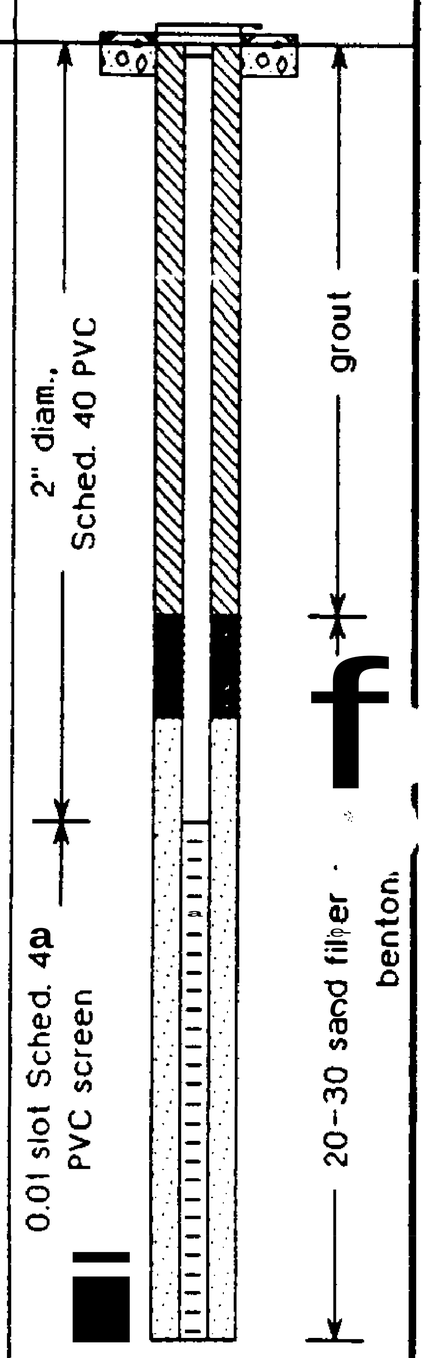
Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *28.17 feet msl*
Started at *0815 on 8-17-93*	TOC Elevation: *27.96 feet msl*
Completed at *on 8-17-93*	Depth to Groundwater: *16.49 feet* Measured: *4/02/96*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *11.47 feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *25.0 feet*
Geologist: *S. Howard*	Well Screen: *15 to 25 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1	75	0.0			Surface **Conditions;** Concrete	
			SS-2	92	0.0				
5			SS-3		0.0				
			SS-4	83	0.0				
			SS-5	83	25				
10			SS-6	83	0.0			Poorly **graded** Sand, fine, orangish-brown to **white with depth, moist throughout to wet** at 17.5 feet, **sand is stained black (looks like oil) from 17.75** to 18.0 feet (top of **saturated zone).**	
			SS-7	83	32		SP		
15			SS-8	83	5				
			SS-9		0.0				
			SS-10		0.0				
20									
			SS-11						
25								**End of boring at 25.0' bls.**	32
30									
35									
40									

Notes:
SS = Split Spoon

Samples Collected:
030S001102
030S001104
030C001104
030S001106
030S001108
030S001110
030S001112
030S001114
030S001116
030S001120

WELL DIAGRAM



EnSafe/Allen & Hoshall

Monitoring Well 30GS12

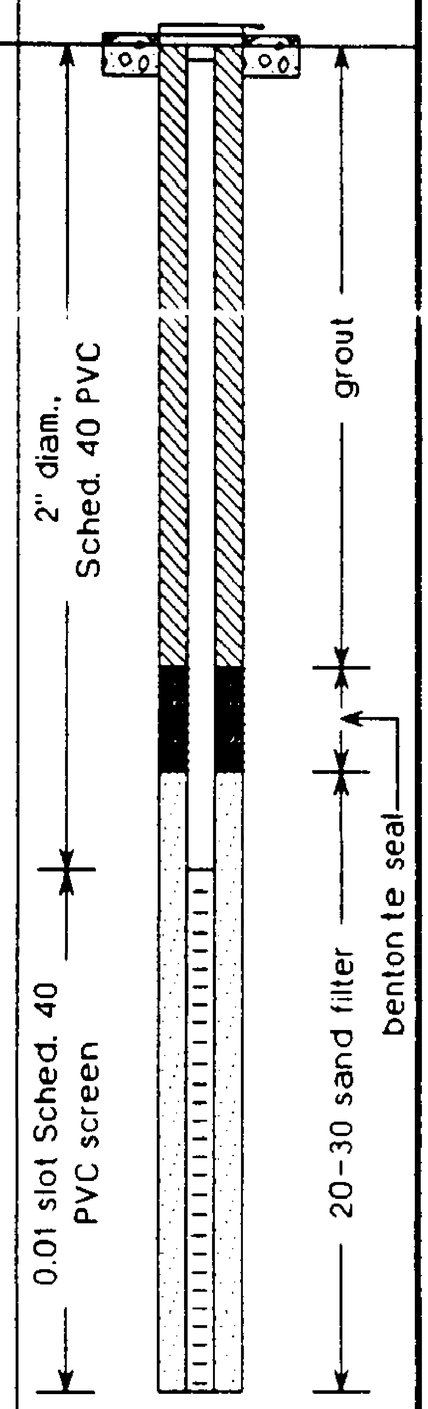
Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *29.34 feet msl*
Started at *on 8-16-93*	TOC Elevation: *29.05 feet msl*
Completed at *on 8-16-93*	Depth to Groundwater: *17.18 feet* Measured: *4/02/96*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *11.87 feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *26.0 feet*
Geologist: *S. Howard*	Well Screen: *16 to 26 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1		7			**Surface Conditions: Concrete**	
			SS-2	75	16				
5			SS-3	83	14				
			SS-4	75	22				
			SS-5	79	8				
10			SS-6	79	12			Poorly **graded** Sand, fine, **orangish-brown** to white to **gray with** depth, moist throughout **to wet** at 18 feet, strung **odor from** 16 to 20 feet.	
			SS-7	96	21		S?		
15			SS-8	88	1300				
			SS-9	88	1500				
20									
25			SS-10					**End** of boring at 26.0' bls.	3.3
30									
35									
40									

Notes;
SS = Split Spoon

Samples Collected:
030S001200 - physical **parameters**
030S001202
030S001204
030S001206
030S001208
030S001210
030S001212
030C001212
030S001214
030S001216
0305001218
030S001220

WELL DIAGRAM



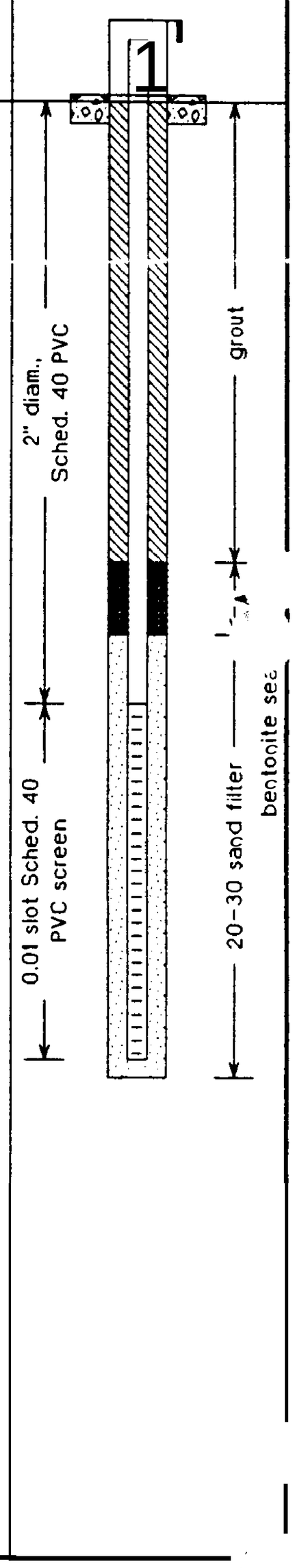
EnSafe/Allen & Hoshall

Monitoring Well 30GS15

Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *29.20 feet msl*
Started at *1100 on 8-09-93*	TOC Elevation: *31.50 feet msl*
Completed at *1245 on 8-09-93*	Depth to Groundwater: *20.83 feet* Measured: *4/02/96*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *10.67 feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *27.5 feet*
Geologist: *S. Howard*	Well Screen: *17 to 27 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1	100	90			Surface **Conditions: Grass**	
			SS-2	92	25				
5			SS-3	92	17				
			SS-4	92	30				
			SS-5		14			Poorly **graded Sand,** fine, light **brown** to **yellowish-brown** to white with **depth,** moist throughout to **wet** at 20 **feet,** <1% heavy **minerals,**	
10			SS-6	03	29		SP		
			SS-7		17				
15			SS-8	79	35				
			SS-9	92	50				
			SS-10						
20									9.2
25								End of boring at **27.5'** bls.	
30								Notes: **SS** = Split Spoon Samples **Collected:** 030S001518 - physical parameters	
35									
40									

WELL DIAGRAM



EnSafe/Allen & Hoshall

Monitoring Well 30GS18

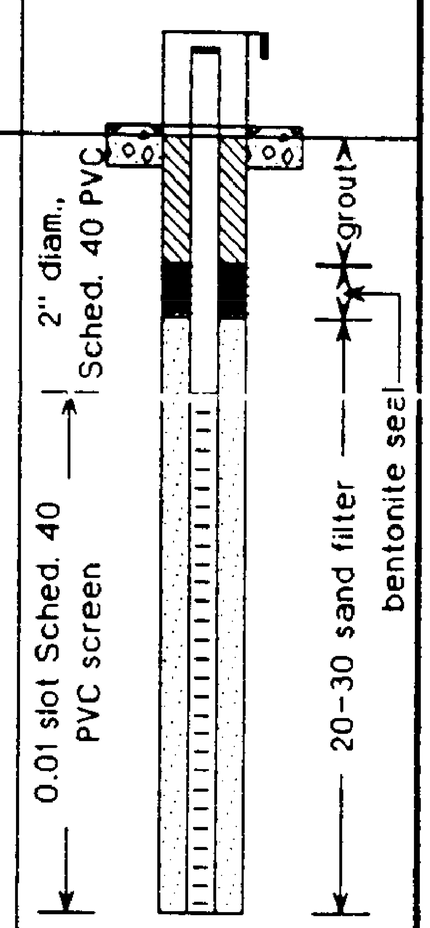
Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *14.59 feet msl*
Started at *on 8-13-93*	TOC Elevation: *16.65 feet msl*
Completed at *on 8-13-93*	Depth to Groundwater: *8.40 feet* Measured: *4/02/96*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *8.25 feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *15.0 feet*
Geologist: *M. Keethler*	Well Screen: *5 to 15 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SS NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1	83	2			Surface Conditions: Grass	
			SS-2	83	1				
5			SS-3	83	46			Poorly graded Sand, fine, white grading to yellow to yellowish-orange with depth, dry to 5.3 feet then moist, wet at 7 feet,	
			SS-4	83	31		SP		
10									
			SS-5	83				Poorly graded Sand, fine, yellow-graywhite, organic roots in top 6-inches.	
15								End of boring at 15.0' bls.	.4
20									
25									
30									
35									
40									

Notes:
SS = Split Spoon

Samples Collected:
030S001802
030S001804
030S001806
030S001808

WELL DIAGRAM



EnSafe/Allen & Hoshall

Monitoring Well 30GS20

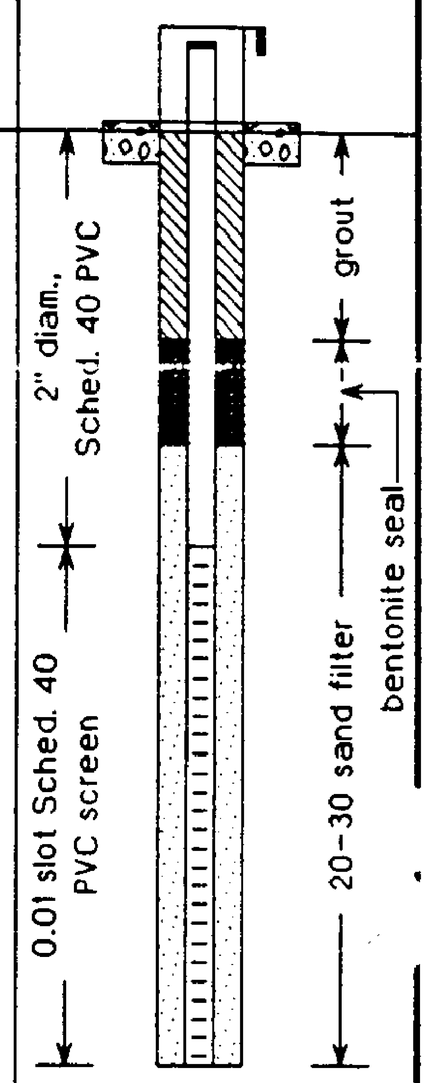
Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *16.84 feet msl*
Started at *1000 on 8-13-93*	TOC Elevation: *18.88 feet msl*
Completed at *on 8-13-93*	Depth to Groundwater: *12.24 feet* Measured: *4/02/96*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *6.64 feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *18.0 feet*
Geologist: *M. Keethler*	Well Screen: *8 to 18 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-f	83	9		SM	**Surface Conditions: Grass**	
			SS-2	83	8		SP	**Silty** Sand to poorly **graded Sand, brown, dry,** loose.	12.8
5			SS-3	83	650				
			SS-4	83	650				
			SS-5	83	15			Poorly **graded Sand,** fine to medium, brown **grading** to **orangish-brown** to **white with depth, loose,** organic-rich (roots) **from 8** to 10 feet, **wet at 10** feet.	
10			SS-6	83	10		SP		
			SS-7		1				
15			SS-a					**End of boring** at 18.0' bls.	12
20									
25									
30									
35									
40									

Notes:
SS = Split Spoon

Samples Collected:
030S002002
030S002004
030S002006
030S002008
030S002010 - physical parameters

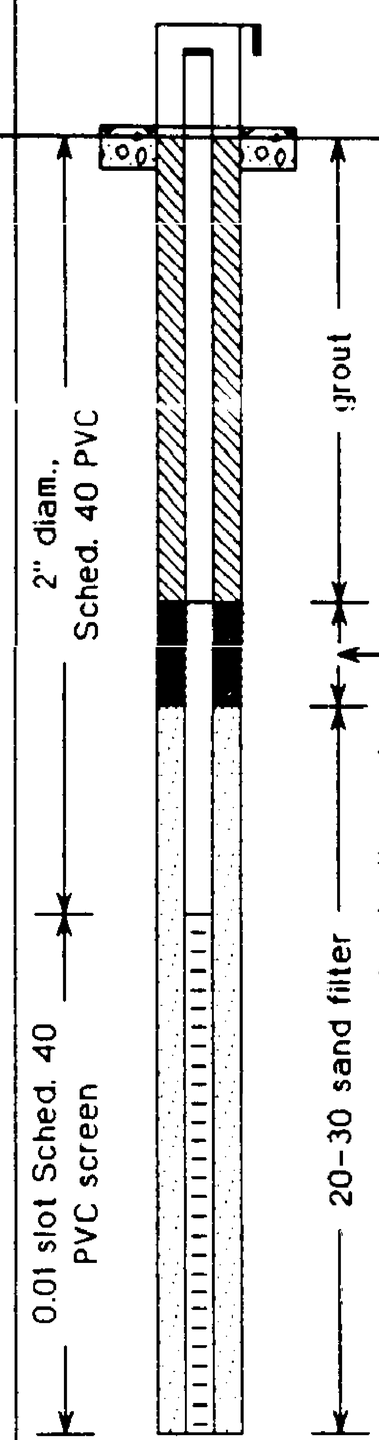
WELL DIAGRAM



EnSafe/Allen & Hoshall	Monitoring Well 30GS53
Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *28.54 feet msl*
Started at *1200 on 8-10-93*	TOC Elevation: *30.77 feet msl*
Completed at *1240 on 8-10-93*	Depth to Groundwater: *feet* Measured: *//96*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *25 feet*
Geologist: *S. Howard*	Well Screen: *9 to 11 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1	75	45		SC	**Surface Conditions: Asphalt** Clayey **Sand**, fine, **red**, moist.	27.5
			SS-2	75	5				
5			SS-3	100	0.0		SP	Poorly graded Sand, fine, tan to medium brown, moist to wet at 8 feet, 1% heavy minerals.	
			SS-4	88	5				
			SS-5	100	4.5			End of **boring at** 10.0' bls.	
10									18.5
15								Notes: SS = Split Spoon **Samples** Collected: **0305005302** 0305005304 **0305005306** **0305005308** 0305005310	
20									
25									
30									
35									
40									

WELL DIAGRAM



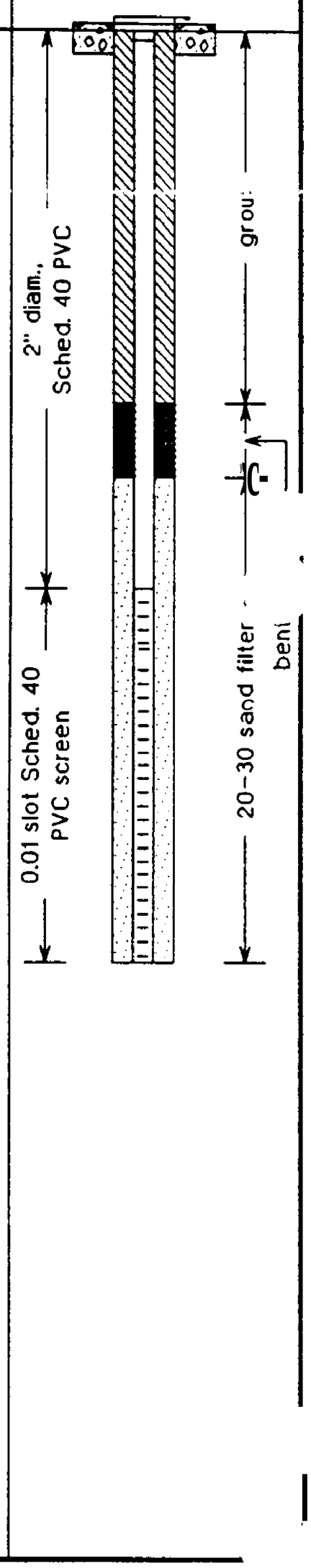
EnSafe/Allen & Hoshall

Monitoring Well 30GS59

Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *27.11 feet msl*
Started at *on 11-16-93*	TOC Elevation: *26.88 feet msl*
Completed at *on 11-16-93*	Depth to Groundwater: *15.36 feet* Measured: *4/02/96*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *11.52 feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *18.0 feet*
Geologist: *S. Howard*	Well Screen: *15 to 25 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	AMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1				ML	**Surface Conditions: Concrete-lined Bay**	
								Silty Clay, fine, red (fill).	25.1
			SS-2						
5			SS-3						
			SS-4						
			SS-5					Poorly **graded Sand,** fine, orange to **brown to white, moist** throughout to wet at **17 feet, odor** at 8 to 10 feet, green **streaks and brown** mottling from 10 to **12 with no odor.**	
10			SS-6				SP		
			SS-7						
15			SS-8						
								End of **boring** at 18.0' bls.	9.1
20								Notes: SS = Split Spoon	
25								**Samples Collected:** 030SWS5902 030SWS5904 030SWS5906 030SWS5908 030SWS5910 030SWS5912 030SWS5914 030SWS5916	
30									
35									
40									

WELL DIAGRAM



EnSafe/Allen & Hoshall

Monitoring Well 30GS61

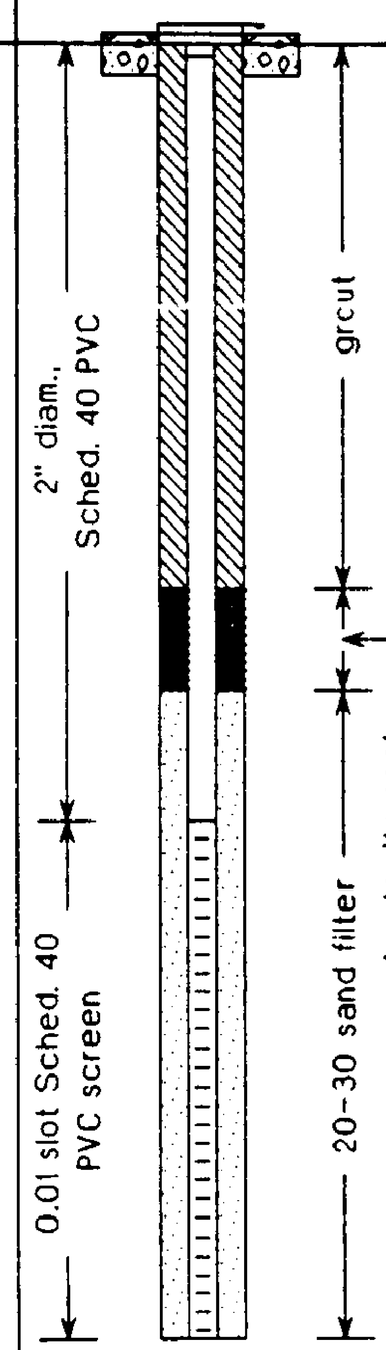
Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *28.03 feet msl*
Stated at *on 11-17-93*	TOC Elevation: *27.81 feet msl*
Completed at *on 11-17-93*	Depth to Groundwater: *15.78 feet* Measured: *4/02/96*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *12.03 feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *18.0 feet*
Geologist: *S. Howard*	Well Screen: *15 to 25 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1		4			Surface Conditions: Grass (vegitation) North side of Building 692	
			SS-2		5				
5			SS-3						
			SS-4		20				
			SS-5		6		SP	Poorly graded Sand, fine, brown to yellowish-orange to white, moist throughout to wet between 16 and 18 feet, top 6-inches peaty.	
10			SS-6		38				
			SS-7		16				
15			SS-8		25				
			SS-9		9			End of boring at 18.0' bls.	
20									
25									
30									
35									
40									

Notes:
SS = Split Spoon

Samples Collected:
030WWS6102
030WWS6104
030WWS6106
030WWS6108
030CWS6108
030WWS6110
030WWS6112
030KWS6112
030XWS6112
030WWS6114
030WWS6116

WELL DIAGRAM



EnSafe/Allen & Hoshall

Monitoring Well 30GS62

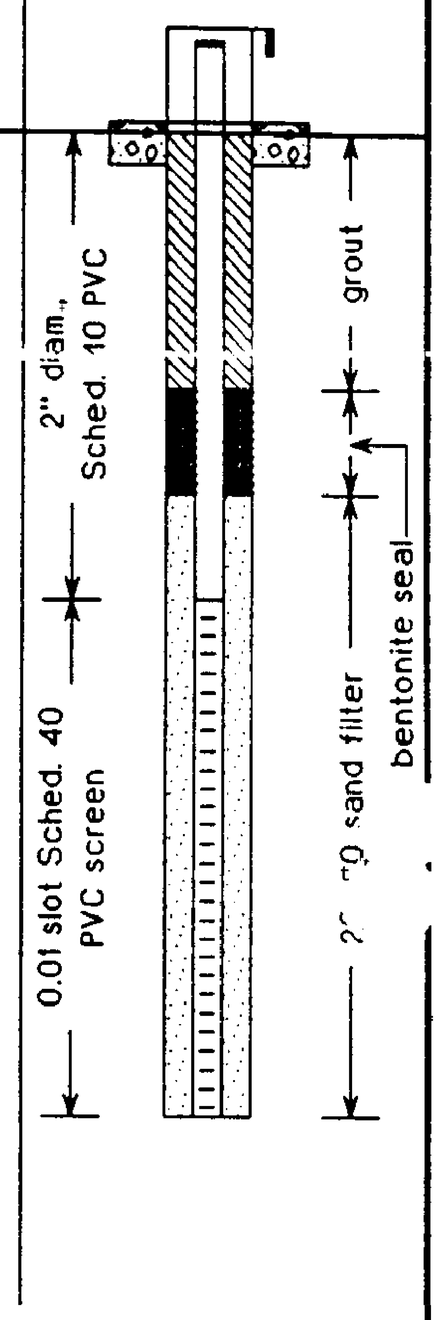
Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *20.87 feet msl*
Started at *on - -93*	TOC Elevation: *22.87 feet msl*
Completed at *on - -93*	Depth to Groundwater: *11.70 feet* Measured: *4/02/96*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *11.17 feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *19.0 feet*
Geologist: *S. Howard*	Well Screen: *9 to 19 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% CO Y	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
5								**Original** Lithology Log Lost	
10									
15									
20								**End** of boring at 19.0' bls.	
25									
30									
35									
40									

Notes:
SS = Split Spoon

Samples Collected:

WELL DIAGRAM



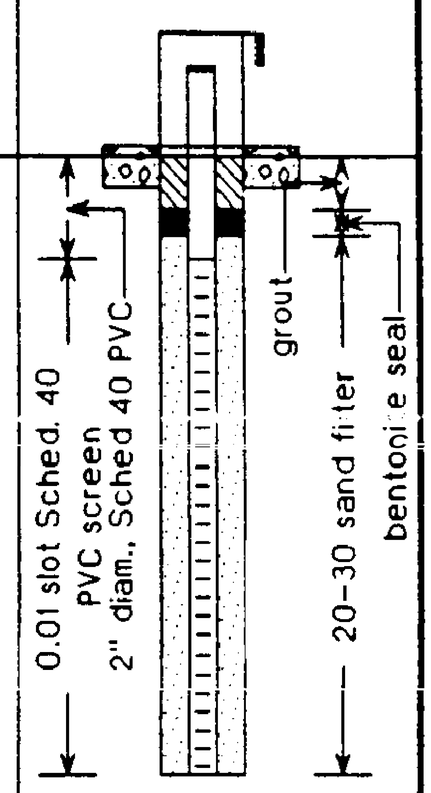
EnSafe/Allen & Hoshall

Monitoring Well 30GS101

Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *5.90 feet msl*
Started at *on 9-01-93*	TOC Elevation: *8.28 feet msl*
Completed at *on 9-01-93*	Depth to Groundwater: *6.14 feet* Measured: *4/02/96*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *2.14 feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *12.0 feet*
Geologist: *S. Howard*	Well Screen: *2 to 12 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	HNu (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	4 w (ft-msl)
			SS-1	83	0.0		SP	Surface **Conditions; Grass**	
			SS-2		0.0			Silty **Sand** to poorly **graded Sand**, brown, dry, loose.	1.9
5									
10			SS-3		0.0		SP	Poorly **graded Sand**, fine to **medium**, brown **grading** to orangish-brown to white with depth, loose, organic-rich (roots) from **8** to 10 feet, **wet** at 10 feet.	-4.1 -6.1
15									
								End of **baring** at 18.0' bls.	
20								Notes; SS = Split Spoon	
25								**Samples** Collected: 030S010101 030S010104	
30									
35									
40									

WELL DIAGRAM



EnSafe/Allen & Hoshall

Monitoring Well 30GS103

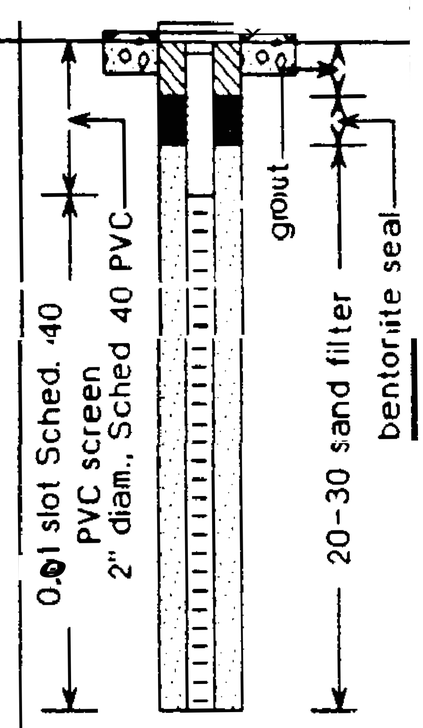
Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *7.75 feet msl*
Started at *on 9-08-93*	TOC Elevation: *7.52 feet msl*
Completed at *on 9-08-93*	Depth to Groundwater: *feet* Measured: *//96*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *13.0 feet*
Geologist: *S. Howard*	Well Screen: *3 to 13 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS.	GEOLOGIC DESCRIPTION	W.LEV. (ft-msl)
			SS-1			5	SC	Surface Conditions: Concrete	
			SS-2	92	2			Clayey Sand, fine, red, (fill):	6.7
			SS-3		0.0		SP	Poorly graded Sand, bricks, and coarse Sand, white to brown, fill material,	
					0.0				
			SS-5						1.7
							SLD	Sandy Sludge and some Clay, glass, hair, black, oily (hydrocarbon) odor, wet,	0.5
10			SS-6				PT	Peat, approximately 4-inches thick.	3.2
							SP	Poorly graded Sand, fine, tan to white, abundant plant roots, wet, minor clayey lenses, oily sheen on water dripping from auger.	3.6
15						7		End of boring at 13.0' bls.	5.2
20									
25									
30									
35									
40									

Notes;
SS = Split Spoon

Samples Collected:
030S010301
030S010304

WELL DIAGRAM



EnSafe/Allen & Hoshall

Monitoring Well 30GS105

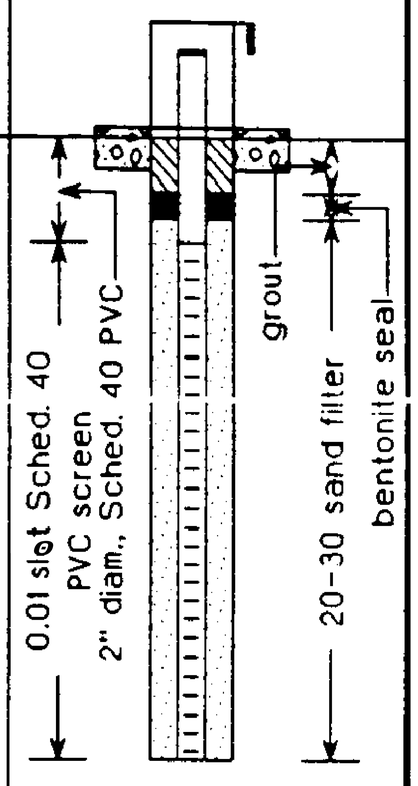
Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *4.76 feet msl*
Started at *0735 on 9-02-93*	TOC Elevation: *7.04 feet msl*
Completed at *on 9-02-93*	Depth to Groundwater: *5.35 feet* Measured: *4/02/96*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *1.69 feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *12.0 feet*
Geologist: *S. Howard*	Well Screen: *2 to 12 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1		0.0			Surface **Conditions; Grass**	
			SS-2	83					
			SS-3						
5							SP	Poorly graded Sand, fine, brown grading to black to red to white, top foot is loose and humic, hydrocarbon odor from 8 to 10 feet, some organic matter from 10 to 12 feet.	
			SS-4		0.0				
10			SS-5		0.0			**End** of boring **at** 12.0' bls.	-72
15									
20									
25									
30									
35									
40									

Notes:
SS = Split Spoon

Samples Collected:
030S010502
030K010502
030X010502
030S010504

WELL DIAGRAM



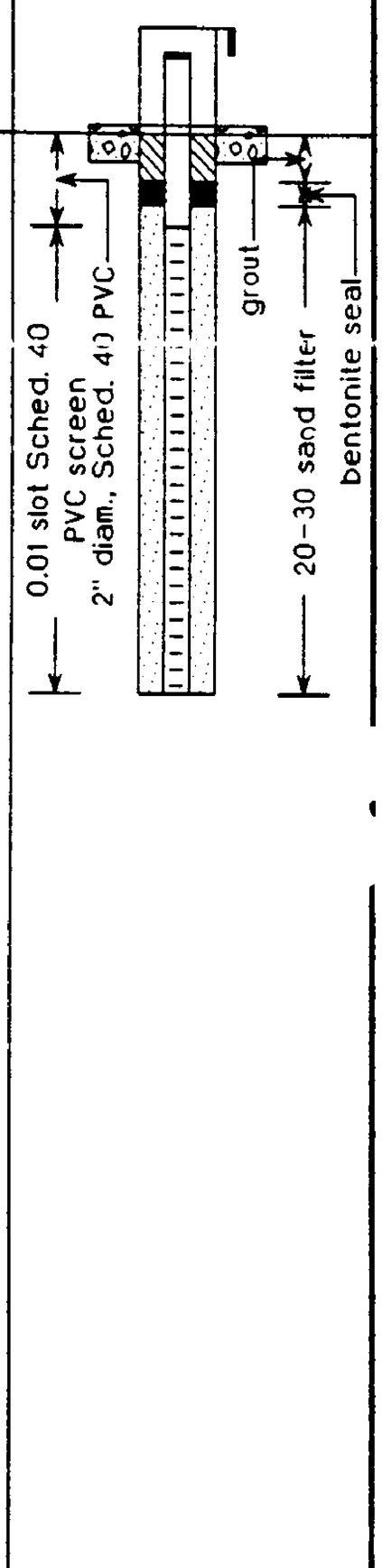
EnSafe/Allen & Hoshall

Monitoring Well 30GS108

Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *5.54 feet msl*
Started at *on 9-02-93*	TOC Elevation: *7.83 feet msl*
Completed at *on 9-02-93*	Depth to Groundwater: *6.74 feet* Measured: *4/02/96*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *1.09 feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *12.0 feet*
Geologist: *S. Howard*	Well Screen: *2 to 12 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
	X	■	HA-1		0.0		SP	**Surface Conditions: Grass**	
	X	■	HA-2		16			**Poorly graded Sand,** fine, **brown** to **white,** organic matter from **2** to **4** feet.	
								End of boring at 4.0' bls.	1.5
5									
								Nates: HA = Hand Auger	
								Samples Collected: 030S010802 030S010804	
10									
15									
20									
25									
30									
35									
40									

WELL DIAGRAM



EnSafe/Allen & Hoshall	Monitoring Well 30GS112
Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *feet msl*
Started at *on 9-2-93*	TOC Elevation: *feet msl*
Completed at *on 9-2-93*	Depth to Groundwater: *feet* Measured:
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *12.0 feet*
Geologist: *S. Howard*	Well Screen: *to feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)	WELL DIAGRAM
			SS-1		10			**Surface Conditions: Grass, Sand**		
			SS-2		28			Poorly **graded Sand, fine,** tan to white to tan **at base,** humic material, **wet** at **base.**		
5							SP			
10								**End** of **boring** at 12' bls.		
15								Notes: SS = Split Spoon **Samples** Collected:		
20										
25										
30										
35										
40										

EnSafe/Allen & Hoshall

Monitoring Well 30GS113

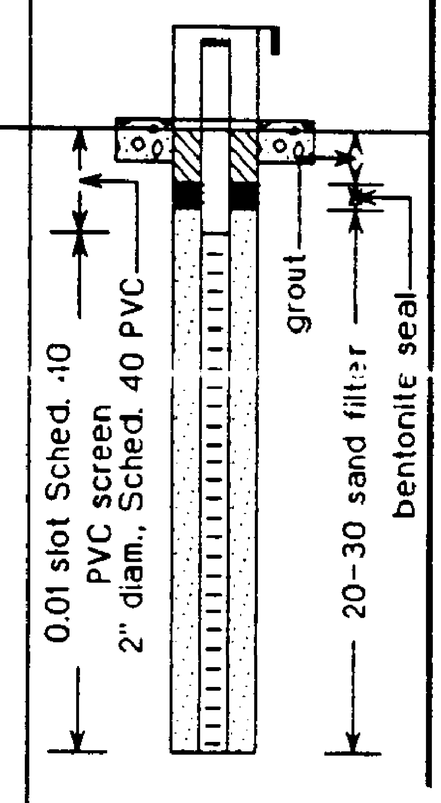
Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *7.19 feet msl*
Started at *1130 on 9-08-93*	TOC Elevation: *9.20 feet msl*
Completed at *1300 on 9-08-93*	Depth to Groundwater: *7.95 feet* Measured: *4/02/96*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *1.25 feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *12.0 feet*
Geologist: *S. Howard*	Well Screen: *2 to 12 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1	92	0.0		SP	Surface **Conditions: Grass**	
			SS-2	83	0.0			Poorly **graded Sand, fine, red** to tan to **white, moist.**	
									-32
5									
10			SS-3		0.0		SP	Poorly graded **Sand,** fine, white, **wet.**	-28
								End of boring at 12.0' bls.	-4.8
15									
20									
25									
30									
35									
40									

Notes:
SS = Split Spoon

Samples Collected:
030S011301
030S011304
030C011304

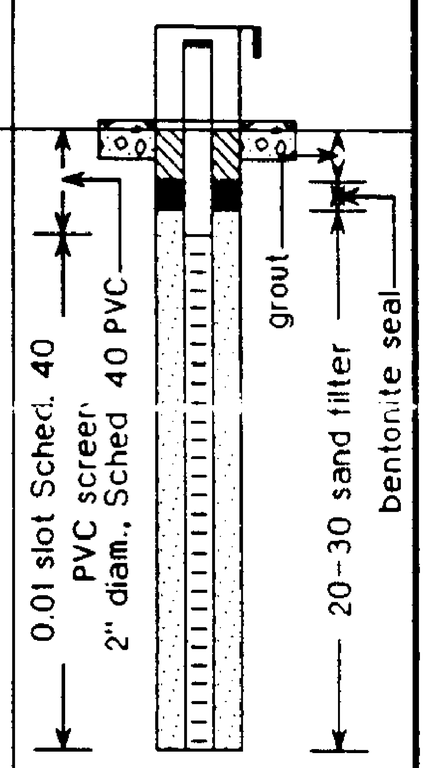
WELL DIAGRAM



EnSafe/Allen & Hoshall	Monitoring Well 30GS118
Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *4.80 feet msl*
Started at *1430 on 9-07-93*	TOC Elevation: *6.72 feet msl*
Completed at *1530 on 9-07-93*	Depth to Groundwater: *feet* Measured: *//96*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *12.0 feet*
Geologist: *S. Howard*	Well Screen: *2 to 12 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1		1.5		SP	Surface **Conditions: Grass**	
					0.5			Poorly **graded Sand, fine, brown** to **white, humic material** 0 to 2 feet, **moist**, wet at **3.5 to 4** feet bls.	8
5							SC	Clayey **Sand**, fine, brown, clay is **matrix, drains** poorly.	
					0.0			**End** of **boring** at 10.0' bls.	5.2
10									
15								Notes: SS = Split Spoon Samples Collected: 030S011802 030C011802	
20									
25									
30									
35									
40									

WELL DIAGRAM



EnSafe/Allen & Hoshall

Monitoring Well 30GS123

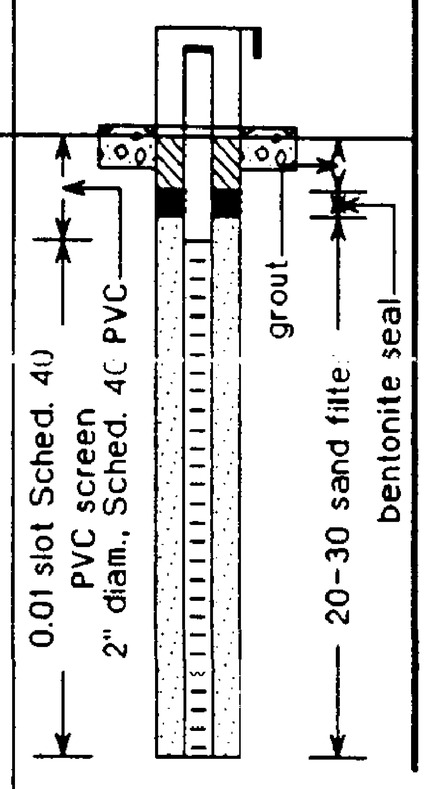
Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *6.76 feet msl*
Started at *0750 on 9-10-93*	TOC Elevation: *8.87 feet msl*
Completed at *on 9-10-93*	Depth to Groundwater: *6.84 feet* Measured: *4/02/96*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *2.03 feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *12.0 feet*
Geologist: *S. Howard*	Well Screen: *2 to 12 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1	83			SP	Surface Conditions: Grass, brush Poorly graded Sand, fine, brown to white, abundant organic matter from 0 to 2 feet.	
			SS-2	75					2.8
5									
10			SS-3				SP	Poorly graded Sand, fine, brown, wet.	3.2
								nd of boring at 12.0' bls.	5.2
15									
20									
25									
30									
35									
40									

Notes:
SS = Split Spoon

Samples Collected:

WELL DIAGRAM



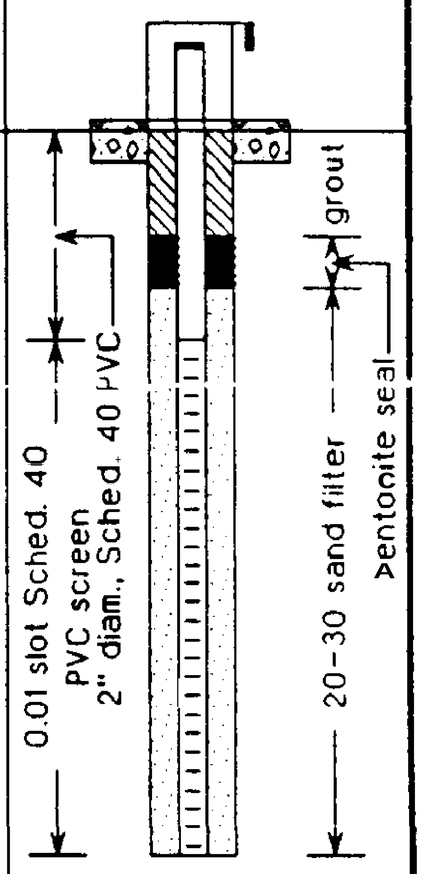
EnSafe/Allen & Hoshall	Monitoring Well 30GS126
Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *9.80 feet msl*
Started at *0845 on 9-09-93*	TOC Elevation: *11.96 feet msl*
Completed at *0915 on 9-09-93*	Depth to Groundwater: *feet* Measured: */ /96*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *14.0 feet*
Geologist: *S. Howard*	Well Screen: *4 to 14 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1		0.0			**Poorly graded Sand,** fine, **brown tu** black, organic-rich throughout, moist to wet **at** 6 feet.	
			SS-2		0.0		SP		
5			SS-3		0.0				3.8
10									-22
			SS-4				SP	Poorly **graded** Sand, fine, tan, wet.	
15								**End** of baring at 14.0' bls.	-42
20									
25									
30									
35									
40									

Notes:
SS = Split Spoon

Samples Collected;
030S012602
0305012606
030C012606

WELL DIAGRAM



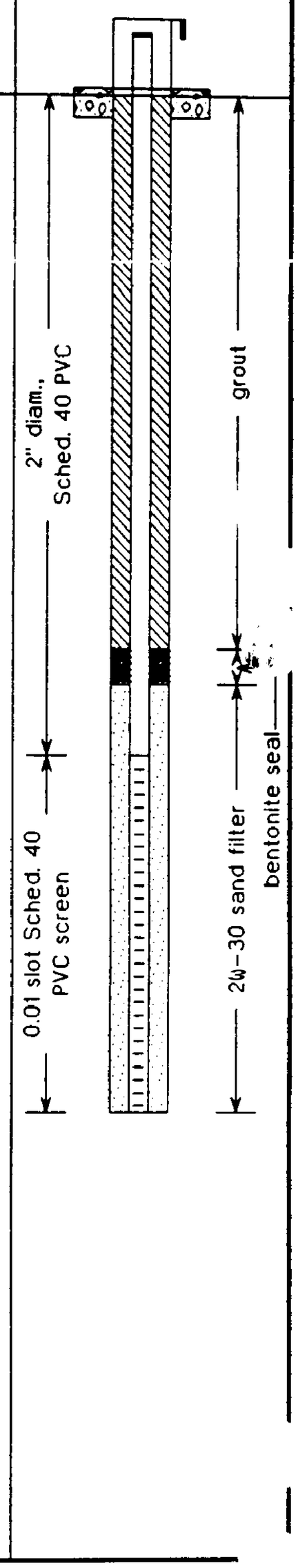
EnSafe/Allen & Hoshall

Monitoring Well 30GS146

Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *23.29 feet msl*
Started at *1010 on 9-27-93*	TOC Elevation: *25.42 feet msl*
Completed at *1130 on 9-27-93*	Depth to Groundwater: *22.48 feet* Measured: *4/02/93*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *2.94 feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *18.5 feet*
Geologist: *S. Howard*	Well Screen: *18.5 to 28.5 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	≈LEV. (ft-msl)
	X		HA-1				CONC	**Surface Conditions:** Concrete (&inches thick)	
5	X		HA-2						
10	X		HA-3				SP	Poorly **graded Sand,** fine, **orange to brown, dry** to **moist with depth, slightly clayey from** 10 to 11 **feet and clayey** from 17 to 18.5 feet, Stoddard Solvent **odor at** 17.5 feet bls, **saturated at** 17.5 **feet.**	
15	X		HA-4						
			HA-5					**End** of **boring at** 18.5' bls.	4.8
20								Notes: **HA** = **Hand** Auger	
25								**Samples** Collected:	
30									
35									
40									

WELL DIAGRAM



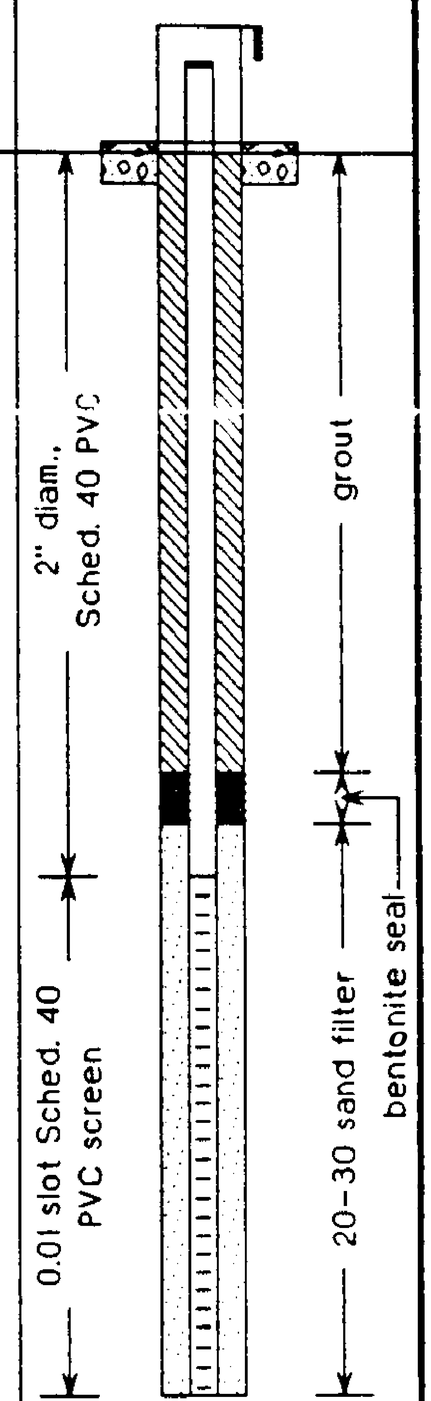
EnSafe/Allen & Hoshall	Monitoring Well 30GS154
Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *20.26 feet msl*
Started at *on 9-09-93*	TOC Elevation: *22.70 feet msl*
Completed at *on 9-09-93*	Depth to Groundwater: *feet* Measured: */ /96*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *24 feet*
Geologist: *S. Howard*	Well Screen: *14 to 24 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1		8		SP	Poorly graded Sand, fine, brown, humic.	$83
									16.3
5			SS-2		0.0		SP	Poorly **graded Sand,** fine orange, moist.	44B
									11.3
10			SS-3				SP	Poorly graded Sand, fine, pale orange, moist.	9.3
									6 3
15			SS-4				SP	Poorly **graded** Sand, fine, **pale orange** to tan, moist to **wet** at **base,**	4.3
20									-17
			SS-5				SP	Poorly graded Sand, fine, white.	
25								**End** of boring at 24.0' bls.	-37
30									
35									
40									

Notes;
SS = Split Spoon

Samples Collected:
030S015402
030S015406
030S015411
030S015416

WELL DIAGRAM



EnSafe/Allen & Hoshall

Boring 30S10

Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist: *S. Howard*
Started at *0845 on 8-12-93*	Surface Elevation:
Completed at *0955 on 8-12-93*	Depth to Groundwater: Measured: *8/12/93*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *20.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1	83	0			**Surface Conditions: Grass, Gravel**	
								6" to 1' **fill over poorly graded Sand,** fine, **orange and brown.**	
			SS-2	83	0			**Poorly graded Sand, fine,** orange **and brown,** moist **dark brown, with shell fragments** at top (2'-3').	
5			SS-3	79	3			Poorly graded Sand, fine, orange moist.	
			SS-4	83	39			Poorly **graded Sand,** fine, orange, **moist black specks.**	
			SS-5	83	124				
10							SP		
			SS-6	83	47			Poorly **graded Sand, fine,** orange **and yellow,** moist.	
			SS-7	83	45				
15			SS-8	88	415			Poorly **graded Sand,** fine, **white,** moist, more orange **at** top.	
			SS-9	83	62				
			SS-10	03	47			Poorly **graded Sand,** fine, white **moist,**	
20								End of boring **at 20.0'** bls.	8.7
25									
30									
35									
40									

Notes:
SS = **Split** Spoon

Samples Collected:
030S001002
030S001004
030S001006
030C001006
030K001006
030X001006
030S001008
030S001010 - **plus** physical parameters
030S001012
030S001014
030S001016
030S001018
030S001020

EnSafe/Allen & Hoshall

Boring 30S04

Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist: *S. Howard*
Started at *0730 on 8-13-93*	Surface Elevation:
Completed at *on 8-13-93*	Depth to Groundwater: Measured: *8/13/93*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *14.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1	82	5			Surface Conditions: Asphalt Clayey Sand, and poorly graded Sand, fine, orange and brown, moist.	
			SS-2	92	20				
5			SS-3	92	0				
			SS-4	88	14		SP	Poorly graded Sand, yellowish-brown, fine, moist.	
			SS-5	88	6				
10			SS-6	83	21			Poorly graded Sand, tan, fine, moist.	
			SS-7	98	4			Poorly graded Sand, white, fine, moist.	
								End of boring at 14.0' bls.	6.5
15									
20									
25									
30									
35									
40									

Notes:
SS = Split Spoon

Samples Collected:
030S000402
030S000404
030S000406
030S000408
030C000408
030S000410
030S000412 - plus physical parameters
030S000414
030K000414
030x000414

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Boring 30S102

Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist: *S. Howard*
Started at *on 9-01-93*	Surface Elevation:
Completed at *on 9-01-93*	Depth to Groundwater: Measured:
Drilling Method: *Hand Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *2.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	≈LEV. (ft-msl)
			HA-1		0		SP	**Surface Conditions:** Poorly **graded Sand, red** to **brown,** concrete **blocks.** **End** of boring **at 2' bls.**	2.7
5									
10									
15									
20									
25									
30									
35									
40									

Notes:
HA = Hand Auger

Samples Collected:
030S010201
030K010201
030X010201
030S010202

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Boring 30S104

Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist: *S. Howard*
Started at *1330 on 8-11-93*	Wax Elevation:
Completed at *on 8-11-93*	Depth to Groundwater: Measured:
Drilling Method: *Hand Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *6.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			HA-1		0			Poorly **graded Sand,** fine, **red to brown,** humic material.	
			HA-2		0		SP	**Poorly graded Sand, fine, brown** to tan, **humic material, occasional concrete-brick,**	
			HA-3		0			**Poorly graded Sand, fine, brown** to white **becoming** lighter **with depth,** occasional concrete-brick.	
5			HA-4		0			Poorly graded Sand, **fine,** white obstruction hit.	19
								End of boring **at** 5.5' bls.	
10									
15									
20									
25									
30									
35									
40									

Notes:
HA = **Hand** Auger

Samples Collected:
030S010401
030S010403
030S010405

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Boring 30S106

Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist: *S. Howard*
Started at *0910 on 8-10-93*	Surface Elevation:
Completed at *1030 on 8-10-93*	Depth to Groundwater: Measured: *8/10/93*
Drilling Method: *Hand Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *7.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	RECOVERY at	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
	X	◣	HA-1		0			**Surface Conditions: Grass**	
	X		HA-2		0			**Silty Sand,** fine, humic, occasional **gravel, some** fill.	
	X	◣					SP	Poorly **graded** Sand, fine, tan, **moist, black clayer sand** to **clay, less sand with** depth.	
	X		HA-3		0				
5	X	◣							
	X		HA-4		0			Poorly **graded Sand,** fine, **brown to gray, moist.**	
	X	◣						End of boring at 7' bls.	25
10								Notes: **HA = Hand Auger**	
								Samples Collected: 030S010601 030S010603 030S010605 030K010605 030X010605 030S010607	
15									
20									
25									
30									
35									
40									

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Boring 30S107

Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist: *S. Howard*
Started at *0900 on 9-02-93*	Surface Elevation:
Completed at *1000 on 9-02-93*	Depth to Groundwater: Measured: *9/02/93*
Drilling Method: *Hand Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *4.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	w EV. (ft-msl)
	X		HA-1		0		SP	Poorly **graded Sand,** brown to white, some organic **matter.**	
	X		**HA-2**		16			**End** of boring at 4' bls.	
5									
10								Notes: **HA** = Hand Auger **Samples** Collected:	
15									
20									
25									
30									
35									
40									

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Boring 30S109

Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist: *S. Howard*
Started at *1040 on 8-26-93*	Surface Elevation:
Completed at *on 8-26-93*	Depth to Groundwater: Measured: *9/02/93*
Drilling Method: *Hand Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *6.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			HA-1		0			Surface **Conditions: Grass, Sand**	
			HA-2		0			**Poorly graded Sand, fine, brown, dry, loose humic material.**	
							SP	Poorly **graded Sand,** fine, **brown, moist.**	
			HA-3		0				
5								Poorly graded Sand, fine brown to tan, moist.	
			HA-4		0			End of boring at **6' bls.**	15
10								Notes: **HA = Hand Auger** Samples Collected: 030S010901 030S010903 030S010905	
15									
20									
25									
30									
35'									
40									

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Boring 30S110

Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist: *S. Howard*
Started at *on 9-01-93*	Surface Elevation:
Completed at *on 9-01-93*	Depth to Groundwater: Measured: **9/01/93**
Drilling Method: *Hand Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *5.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID H	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			HA-1		0		SP	Surface **Conditions; Ground Surface/Top Soil**	
			HA-2		0			Poorly **graded Sand,** fine, **brown, dry, loose** humic **material.**	
								Poorly **graded Sand,** fine, tan, **moist, brown from 2.5-inches.**	
			CIA-3		0			Poorly **graded Sand,** fine, **brown, moist, dark bands** at **4** feet bls.	
5								End of boring at 5' bls.	13
10								Notes: **HA** = **Hand** Auger **Samples** Collected: 030S011001 0305011003 030K011003 030X011003 030S011005	
15									
20									
25									
30									
35									
40									

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Boring 30S111

Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist: *S. Howard*
Started at *on 9-2-93*	Surface Elevation:
Completed at *on 9-2-93*	Depth to Groundwater: Measured: *9/02/93*
Drilling Method: *Hand Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *12.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
	X	◢	HA-1		10			Surface Conditions: Grass, Sand Poorly graded Sand, fine, tan to white, humic material.	
	X	◢	HA-2		28			Poorly graded Sand, fine, tan, wet at base.	
5							SP		
10								End of boring at 12' bls.	
15								Nates: HA = Hand Auger Samples Collected: 030S011102 030S011104	
20									
25									
30									
35									
40									

EnSafe/Allen & Hoshall	Boring 30S112
Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist: *S. Howard*
Started at *0900 on 9-7-93*	Surface Elevation:
Completed at *1000 on 9-7-93*	Depth to Groundwater: Measured: *9/07/93*
Drilling Method: *Hand Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *5.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			HA-1		0			**Surface Conditions: Grass, Sand**	
			HA-2		0		SP	**Poorly graded Sand,** fine, **brown, loose, humic** material,	
			HA-3		0			Poorly **graded Sand,** fine, **tan to brown,**	
5								**End** of boring at 5' bls.	12
10								Notes: **HA = Hand Auger** **Samples** Collected: 030S011201 030S011203 030S011205	
15									
20									
25									
30									
35									
40									

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Boring 30S114

Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist: *S. Howard*
Started at *1330 on 9-3-93*	Surface Elevation:
Completed at *1445 on 9-3-93*	Depth to Groundwater: Measured: *9/03/93*
Drilling Method: *Hand Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *7.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
	X	■	HA-1		0			Surf**ace Conditions:** Concrete	
	X	■	HA-2		0			**Poorly graded Sand,** fine, **moist, brown-orange**	
	X	■	HA-3		0		SP	Poorly **graded Sand,** fine, **moist, brown-orange,** occasional concrete clast/pebble - **fill**	
5	X	■	HA-4		0			Poorly graded Sand, fine, brown-orange, moist	
								End of **boring** at 7' bls.	-3.9
10								Notes: **HA = Hand Auger**	
15								Samples Collected: 030S011401 030S011401 030S011405 030S011407	
20									
25									
30									
35									
40									

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Boring 30S115

Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist: *S. Howard*
Started at *0800 on 9-07-93*	Surface Elevation:
Completed at *0830 on 9-07-93*	Depth to Groundwater: Measured:
Drilling Method: *Hand Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *7.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	≈LEV. (ft-msl)
	X		HA-1		0.0		SP	Surface **Conditions:** Concrete **Poorly graded Sand,** fine, **brown, intermixed with red clay and black** gravel-sized **clasts** (Fill),	
5	X		HA-2		0.0			Poorly **graded Sand,** fine, moist, tan to **brown,** occasional **pebble-** sized **clasts** (Fill).	
								Hit **Obstacle** - End Boring at 7 feet bls.	-2.5
10								**Notes:** **HA** = **Hand** Auger Samples Collected: 030S011501 0305011506	
15									
20									
25									
30									
35									
40									

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Boring 30S116

Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist: *S. Howard*
Started at *on 9-02-93*	Surface Elevation:
Completed at *on 9-02-93*	Depth to Groundwater: Measured: *9/02/93*
Drilling Method: *Hand Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *4.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
	X		HA-1				SP	Surface Conditions: Grass Poorly graded Sand, fine, brown to red, plant roots.	
	X		HA-2					End Boring at 4.0' bls.	2.6
5									
								Notes: HA = Hand Auger Samples Collected: 030S011601 030S011603	
10									
15									
20									
25									
30									
35									
40									

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Boring 30S117

Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist: *S. Howard*
Started at *1050 on 9-02-93*	Surface Elevation:
Completed at *1150 on 9-02-93*	Depth to Groundwater: Measured: 9/02/93
Drilling Method: *Hand Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *4.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			HA-1				SP	**Surface Conditions: Sand and Grass**	
			HA-2					Poorly graded Sand, fine, brown to red, plant roots, black sludge at 1 foot bls, local clay matrix from 3 to 4 feet, solvent odor at water table (approximately 3.5 feet),	
			HA-3						
5								**End** Boring at 4.0' bls.	15
10								Notes: **HA** = Hand **Auger** Samples Collected: 030S011701 030S011703 030S011704	
15									
20									
25									
30									
35									
40									

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Boring 30S120

Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist: *S. Howard*
Started at *on 8-30-93*	Surface Elevation:
Completed at *on 8-30-93*	Depth to Groundwater: Measured:
Drilling Method: *Hand Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *6.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
	X	◢	HA-1		0.0			**Surface Conditions: Sand**	
	X		HA-2		0.0		SP	**Poorly graded Sand, fine, brown to** white with **depth,** organic matter from 3 to 4 **feet bls,** very **slightly** clayey from 0 to 1 **feet.**	
5	X	◢	HA-3		0.0			End Boring at 8.0' bls.	
10								**Nates:** **HA** = **Hand** Auger samples Collected: 030S012001 030S012006	
15									
20									
25									
30									
35									
40									

EnSafe/Allen & Hoshall	Boring 30S121
Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist: *S. Howard*
Started at *1455 on 8-30-93*	Surface Elevation:
Completed at *1520 on 8-30-93*	Depth to Groundwater: Measured: *8/30/93*
Drilling Method: *Hand Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *4.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			HA-1					Surface **Conditions; Sand and Grass**	
			HA-2				SP	**Poorly graded Sand,** fine, gray to white, dry to **moist** to **wet at 3** to 4 feet bls.	
								End Boring at **4.0'** bls.	7
5									
								Notes: **HA** = Hand **Auger** Samples Collected: 030S012101 030S012103	
10									
15									
20									
25									
30									
35									
40									

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Boring 30S122

Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist: *S. Howard*
Started at *0945 on 9-01-93*	Surface Elevation:
Completed at *1015 on 9-01-93*	Depth to Groundwater: Measured: *9/01/93*
Drilling Method: *Hand Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *4.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	D (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
	X	◣	HA-1		0.0			**Surface Conditions:**	
	X	◣	HA-2		0.0		SP	**Poorly graded Sand,** fine, **brown, dry, some gravel-size clasts,** humic **material present to** 3 feet, **moist** to **wet** at 3.5 feet.	
	X		HA-3		0.0				
								End Boring at 4.0' bls.	19
5									
10									
15									
20									
25									
30									
35									
40									

Notes:
HA = **Hand Auger**

Samples Collected;
030S012201
0305012203

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Boring 30S123

Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist: *S. Howard*
Started at *0945 on 9-01-93*	Surface Elevation:
Completed at *1015 on 9-01-93*	Depth to Groundwater: Measured:
Drilling Method: *Hand Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *4.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			HA-1		0.0			Surface Conditions:	
			HA-2		0.0		SP	Poorly **graded Sand,** fine, brown, **dry, some gravel-size** clasts, humic material **present** to **3** feet, moist to wet at **3.5** feet.	
			HA-3		0.0			End Boring at 4.0' bls.	
5									
10									
15									
20									
25									
30									
35									
40									

Notes:
HA = Hand Auger

Samples Collected;
030S012301
0305012304

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Boring 30S124

Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist: *S. Howard*
Started at *1255 on 9-23-93*	Surface Elevation:
Completed at *1310 on 9-23-93*	Depth to Groundwater: Measured:
Drilling Method: *Hand Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *3.0* feet

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			HA-1				SM	Silty **Sand,** fine, **brown, humis and roots present.**	4.1
			HA-2				SP	Poorly **graded Sand,** fine, **white.**	
								End Boring at 3.0' bls.	2.1
5									
10									
15									
20									
25									
30									
35									
40									

Notes:
HA = Hand Auger

Samples Collected:
030S012401
030S012403

EnSafe/Allen & Hoshall	Boring 30S125
Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist: *S. Howard*
Started at *1200 on 9-23-93*	Surface Elevation:
Completed at *1230 on 9-23-93*	Depth to Groundwater: Measured: *9/23/93*
Drilling Method: *Hand Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *5.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft -msl)
	X		HA-1				SM	**Surface Conditions: Vegetation**	
								Silty **Sand,** fine, **brown, humis and** roots present, **dry.**	7
	X		HA-2				SP	Poorly **graded Sand, fine, brown, dry, less roots.**	
	X		HA-3					**Poorly graded Sand, white, moist.**	
5							7	End Boring at 5.0' bls.	-3
10								**Notes:** HA = **Hand** Auger **Samples Collected:** 030S012501 030S012503 030S012505	
15									
20									
25									
30									
35									
40									

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Boring 30S127

Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist: *S. Howard*
Started at *1050 on 9-23-93*	Surface Elevation:
Completed at *1140 on 9-23-93*	Depth to Groundwater: Measured: *9/23/93*
Drilling Method: *Hand Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *5.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE ID	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
	X	◢	HA-1					**Surface Conditions: Vegetation**	
	X	◢	HA-2				SP	Poorly graded Sand, fine, brown to gray, humic with roots from 0 to 3 feet bls.	
5	X	◢	HA-3					**End** Boring at **5.0'**bls.	-3.9
10								Notes: **HA** = **Hand** Auger **Samples** Collected: 030S012701 030K012701 030X012701 030S012703 030S012705	
15									
20									
25									
30									
35									
40									

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Boring 30S128

Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist: *S. Howard*
Started at *1100 on 9-15-93*	Surface Elevation:
Completed at *1200 on 9-15-93*	Depth to Groundwater: Measured: *9/15/93*
Drilling Method: *Hand Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *6.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE ID	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
	X	■	HA-1				SP	Surface Conditions: Vegetation 0.75 Poorly graded Sand, fine, brown, plant matter and roots.	9.40000
5	X	■	HA-2				SP	Poorly graded Sand, fine, brown to tan.	6.4
								End Boring at 6.0' bls.	4.4
10								Notes; HA = Hand Auger Samples Collected: 030S012801 030S012806	
15									
20									
25									
30									
35									
40									

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Boring 30S129

Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist: *S. Howard*
Started at *on 9-15-93*	Surface Elevation:
Completed at *on 9-15-93*	Depth to Groundwater: Measured: *9/15/93*
Drilling Method: *Hand Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *6.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
	X	◢	HA-1				SP	Surface Conditions: Vegetation Poorly graded Sand, fine, grayish-brown, plant matter and roots.	9.3
5	X	◢	HA-2				SP	Poorly graded Sand, fine, brown.	6.3
								End Boring at 6.0' bls.	4.3
10									
15									
20									
25									
30									
35									
40									

Notes;
HA = **Hand Auger**

Samples Collected:
030S012901
030S012906

EnSafe/Allen & Hoshall

Boring 30S130

Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist: *S. Howard*
Started at *0900 on 9-17-93*	Surface Elevation:
Completed at *0920 on 9-17-93*	Depth to Groundwater: Measured: *9/17/93*
Drilling Method: *Hand Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *10 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
	X	◢	HA-1				SP	**Surface Conditions: Vegetation on edge of wetland** **Poorly graded Sand, fine, black, rich in humic matter.**	6.4
								End Boring at 1.0' bls.	
5								Notes: HA = Hand Auger	
								Samples Collected: 030**S0**13001	
10									
15									
20									
25									
30									
35									
40									

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Boring 3053134

Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist: *S. Howard*
Started at *1010 on 10-01-93*	Surface Elevation:
Completed at *1015 on 10-01-93*	Depth to Groundwater: Measured: *10/01/93*
Drilling Method: *Hand Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *10 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	≈LEV. (ft-msl)
	X		HA-1				SM	Surface **Conditions: Vegetation** on **edge** of **wetland** Silty **Sand,** fine, **black, peaty, abundant roots, moist.** End Boring at 1.0' bls.	
5								Notes: HA = Hand Auger **Samples Collected:** 030S013401	
10									
15									
20									
25									
30									
35									
40									

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Boring 30S135

Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist: *S. Howard*
Started at *0845 on 10-01-93*	Surface Elevation:
Completed at *0900 on 10-01-93*	Depth to Groundwater: Measured: *10/01/93*
Drilling Method: *Hand Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *6.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
	X		HA-1		0.0		SP	**Surface Conditions: Vegetation** Poorly **graded Sand,** fine, **brown, humic matter and** roots, dry.	15.7
5	X		HA-2		0.0		SP	Poorly **graded** Sand, fine, tan.	12.7
								End Boring at 6.0' bls.	10.7
10									
15									
20									
25									
30									
35									
40									

Notes:
HA = Hand Auger

Samples Collected:
030S013501
030S013506
030C013506

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Boring 30S137

Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist: *S. Howard*
Started at *1000 on 9-30-93*	Surface Elevation:
Completed at *1040 on 9-30-93*	Depth to Groundwater: Measured: *9/30/93*
Drilling Method: *Hand Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *14.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
	X		HA-1		0.0		SP	**Surface Conditions: Grassy slope, sloping to south into wetland**	
								Poorly **graded Sand,** fine, **dark brown, humic matter and roots,**	19.7
5			HA-2		25		SP	Poorly **graded** Sand, fine, **orange, moist,** contains **patches of clay/sludge and black-coated sand** grains, **some peaty material.**	15.7 14.7
10			HA-3		1		SP	Poorly **graded** Sand, fine, tan, moist, **1%** heavy **minerals.**	a.7
								End Boring at 14.0' bls.	6.7
15									
20									
25									
30									
35									
40									

Notes:
HA = **Hand Auger**

Samples Collected:
0305013701
030K013701
030x013701
030S013706
030C013706
030S013711

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Boring 30S138

Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist: *S. Howard*
Started at *1015 on 9-28-93*	Surface Elevation:
Completed at *1130 on 9-28-93*	Depth to Groundwater: Measured: *9/28/93*
Drilling Method: *Hand Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *15.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			HA-1		0.0		SM	**Surface Conditions: Grass and gravel**	
								Silty **Sand** (Fill), fine, **orange-brown,** humic **matter, moist, some shells.**	-24.7
							SP	Poorly **graded Sand,** fine, **orange to** tan, **contains patches** of **red to black,** cohesive silty **sand** at **1.5** feet.	
5			HA-2		0.0				19.7
10			HA-3		0.0		SP	Poorly **graded Sand, fine,** tan, **moist.**	15.7
								Poorly **graded Sand, fine,** gray to **dark gray, hydrocarbon odor.**	
15			HA-4		350			Poorly **graded Sand,** fine, **black, saturated,** strong hydrocarbon odor.	10.7
								End Boring at 15.0' bls.	
20									
25									
30									
35									
40									

Notes;
HA = **Hand** Auger

Samples Collected:
030S013801
030S013806
030S013811
030K013811
030S013815

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Boring 30S139

Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist: *S. Howard*
Started at *0950 on 10-01-93*	Surface Elevation:
Completed at *1000 on 10-01-93*	Depth to Groundwater: Measured: *10/01/93*
Drilling Method: *Hand Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *6.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE ID	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
	X		HA-1				SP	**Surface Conditions: Vegetation**	
								Poorly graded Sand, fine, brown, humic **with roots, dry.**	14
5			HA-2				SP	Poorly **graded Sand,** light brown, **moist.**	10.1
								End Boring at 5.0' bls.	9.1
10								**Notes:** **HA** = **Hand** Auger Samples Collected: 030S013901 030S013906 030C013906 030K013906	
15									
20									
25									
30									
35									
40									

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Boring 30S140

Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist: *S. Howard*
Started at *1250 on 9-30-93*	Surface Elevation:
Completed at *1330 on 9-30-93*	Depth to Groundwater: Measured: *9/30/93*
Drilling Method: *Hand Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *13.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
	X		WA-1		0.0		SP	**Surface Conditions; Grass, sloping** to **south to wetland**	20.5
								Poorly **graded Sand,** fine, **brown,** humic matter **with roots, some red** clay, dry.	
5	X		HA-2		0.0		SP	Poorly graded **Sand,** fine, tan, **moist.**	16.5
10			HA-3		0.0		SP	Poorly **graded Sand,** fine, tan to white, **moist.**	11.5
								End Boring at 13.0' bls.	8.5
15									
20									
25									
30									
35									
40									

Notes:
HA = Hand Auger

Samples Collected:
030S014001
030S014006
030C014006
030S014011

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Boring 30S141

Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist: *S. Howard*
Started at *1810 on 9-22-93*	Surface Elevation:
Completed at *2030 on 9-22-93*	Depth to Groundwater: Measured:
Drilling Method: *Hand Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *210 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			HA-1				CONC	Surface Conditions: Concrete (6-inches thick]	
								Poorly graded Sand, fine, orangish-brown, occasional 0.5-inch diameter black slag fragment.	
5			HA-2					As Above	
10			HA-3				SP	As Above	
								Poorly graded Sand, fine, orange.	
15			HA-4					As Abuve	
20			HA-5					Poorly graded Sand, fine, brown,	
								End Boring at 21.0' bls.	
25									
30									
35									
40									

Notes:
HA = Hand Auger

Samples Collected:
030S014101
030S014106
030S014111
030S014116
030S014121

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Boring 30S142

Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist: *S. Howard*
Started at *1550 on 9-23-93*	Surface Elevation:
Completed at *1630 on 9-23-93*	Depth to Groundwater: Measured:
Drilling Method: *Hand Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *8.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			HA-1				CONC	Surface **Conditions:** Concrete (6-inches **thick)**	
5			HA-2				SP	Poorly **graded** Sand, fine, **orangish-brown, pieces** of slag from 0.5 to 1 feet **and 5** to 6 **feet, some red** clay from 1 to 3 **feet,** moist.	
								Obstruction at 8 feet bls - abandon boring.	
								End of boring at 8.0' bls.	
10								**Notes:** **HA = Hand Auger**	
								Samples **Collected:** 030S014201 030S014206	
15									
20									
25									
30									
35									
40									

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Boring 30S143

Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist: *S. Howard*
Started at *0915 on 10-04-93*	Surface Elevation:
Completed at *1110 on 10-04-93*	Depth to Groundwater: Measured: *10/04/93*
Drilling Method: *Hand Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *18.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
	X		HA-1				SP SC	Surface Conditions: Asphalt fill Material, poorly graded Sand, Clayey Sand and Fat Clay, red, fine to medium, clay is shelly.	21.7
5	X		HA-2		200				
10	X		HA-3		0.0		SP	Poorly graded Sand, fine, orangish to brown to tan to white with depth moist, no odor lower in boring.	
					0.0				
15	X		HA-4		0.0			End of boring at 18.0' bls.	4.7
20									
25									
30									
35									
40									

Notes:
HA = Hand Auger

Samples Collected:
030S014301
030S014306
030S014311
030K014311
030XU14311
030S014316

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Boring 30S144

Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist: *S. Howard*
Started at *1700 on 9-23-93*	Surface Elevation:
Completed at *1900 on 9-23-93*	Depth to Groundwater: Measured: *9/23/93*
Drilling Method: *Hand Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *18.5 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			HA-1				CONC	**Surface Conditions:** Concrete **(6-inches thick)**	
5			HA-2						
10			HA-3				SP	Poorly **graded** Sand, fine, orange to **brown, dry to moist with depth,** slightly clayey from 10 to 11 feet **and** clayey **from** 17 to 18.5 feet, Stoddard Solvent odor at **17.5** feet bls, **saturated** at **17.5** feet.	
15			HA-4						
			HA-5					**End** of **boring at** 18.5' bls.	
20									
25									
30									
35									
40									

Notes:
HA = Hand **Auger**

Samples **Collected:**
030S014401
030S014406
030S014411
030S014416
030S014418
030K014418
030X014418

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Boring 30S145

Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist: *S. Howard*
Started at *1600 on 10-06-93*	Surface Elevation:
Completed at *1800 on 10-06-93*	Depth to Groundwater: Measured
Drilling Method: *Hand Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *210 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
	X	◢	HA-1		0.0			**Surface Conditions:** Concrete inside building	
5	X	◢	HA-2		0.0				
10	X	◢	HA-3				S?	Poorly **graded Sand, fine, orange to brown** to **white with depth, dry** to miost with depth, charcoal fragments **present at 7** feet, **sand becomes** cohesive at **18** feet, very **moist** at **20** to **21** feet (close to **water table).**	
15	X	◢	HA-4						
20	X	◢	HA-5		0.0			**End** of **baring at** 21.0' bls.	
25								**Notes:** **HA** = Hand **Auger** **Samples** Collected: 030S014501 030S014506 030S014511 030S014516 030S014521	
30									
35									
40									

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Boring 30S147

Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist: *S. Howard*
Started at *1010 on* 4-27-93	Surface Elevation:
Completed at *1130 on 9-27-93*	Depth to Groundwater: Measured: *9/27/93*
Drilling Method: *Hand Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *18.5 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE ID	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
	X		HA-1		0.0			Surface Conditions: **Grass**	
5	X		HA-2						
10	X		HA-3				SP	Poorly graded Sand, fine, **brown** tu **orange** to **tan** to **white with depth, humic with** roots from 0 to 1 feet, **dry** to **very moist at end of** boring, **brown** mottling from 10 to 11 feet.	
15	X		HA-4					**End** of boring at 18.5' bls.	
20								Notes: **HA** = Hand Auger Samples Collected: 030S014701 030S014706 030C014706 030X014706 030S014711 030S014716	
25									
30									
35									
40									

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Boring 30S148

Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist: *S. Howard*
Started at *1030 on 9-21-93*	Surface Elevation:
Completed at *on 9-21-93*	Depth to Groundwater: Measured: *9/21/93*
Drilling Method: *Hand Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *18.5 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
	X		HA-1					Surface Conditions: Asphalt	
5			HA-2						
10			HA-3				SP	Poorly GRADED Sand, fine, brown to orange to white with depth, humic from 0 to 1 feet, 2-inches asphalt and shells at surface.	
15			HA-4						
								End of boring at 18.5' bls.	
20									
25								Notes: HA = Hand Auger Samples Collected: 030S014801 030S014806 030S014810 030S014815	
30									
35									
40									

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Boring 30S149

Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist: *S. Howard*
Started at *1300 on 9-27-93*	Surface Elevation:
Completed at *1430 on 9-27-93*	Depth to Groundwater: Measured: *9/27/93*
Drilling Method: *Hand Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *16 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
	X	■	HA-1		2			Surface Conditions: Grass	
5	X	■	HA-2		40				
10	X	■	HA-3				SP	Poorly graded Sand, fine, brown to orange to tan with depth, humic with roots from 0 to 1 feet, minor red Clayey Sand in upper foot and from 5 to 6 feet, dry to moist at end of boring.	
15	X	■	HA-4		4			End of boring at 16.0' bls.	4.1
20								Notes: HA = Hand Auger Samples Collected: 030S014901 030S014906 030K014906 030S014911 030S014916	
25									
30									
35									
40									

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Boring 30S150

Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist: *S. Howard*
Started at *on 9-21-93*	Surface Elevation:
Completed at *on 9-21-93*	Depth to Groundwater: Measured:
Drilling Method: *Hand Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *16 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
	X		HA-1		0.0			Surface Conditions: Sand and Shells	
5	X		HA-2		0.0				
							SP	Poorly graded Sand, fine, brown to orangish-brown, humic with roots and frequent shells from 0 to 1 feet, moist throughout, darker silty areas from 10 to 11 feet bls.	
10	X		HA-3		0.0				
15	X		HA-4					End of boring at 16.0' bts.	
20								Notes: HA = Hand Auger Samples Collected: 030S015001 030S015006 030S015011 0305015016	
25									
30									
35									
40									

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Boring 305151

Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist: *S. Howard*
Started at *on 9-28-93*	Surface Elevation:
Completed at *on 9-28-93*	Depth to Groundwater: Measured: 9/28/93
Drilling Method: *Hand Auger*	Groundwater Elevation: *feet msl*
Drilling Company:	Total Depth: *14 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
	X	◢	HA-1		0.0			**Surface Conditions: Grass**	
5	X	◢	HA-2		0.0		SP	Poorly **graded Sand, fine, orangish-brown** to tan, moist, **some** minor **red,** stiff Fat Clay (Fill), sand turns gray with possible Stoddard Solvent odor from **12** to 13 feet **bts.**	
10	X	◢	HA-3		0.0				
	X	◢	HA-4					End of boring at **14.0' bls.**	
									5.2
15								Notes: **HA = Hand Auger**	
20								Samples Collected: 030S015101 030S015106 030C015106 030S015111 030K015111 030S015113	
25									
30									
35									
40									

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Boring 30S153

Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist: *S. Howard*
Started at *on 9-08-93*	Surface Elevation:
Completed at *on 9-08-93*	Depth to Groundwater: Measured: *9/08/93*
Drilling Method: *4.25" I.D. Hollow-stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *26 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1		0.0		SC	**Surface Conditions: Asphalt**	19.1
							SP	Clayey **Sand** (Fill), fine, **red, shell** fragments.	18.1
								Poorly **graded Sand,** orangish-brown, **moist.**	
									16.1
			SS-2		2		SP	Poorly **graded Sand,** fine, **orange-brown,** moist, **red in areas** of silty clay.	
									14.1
									11.1
10			SS-3		0.0		SP	Poorly **graded Sand,** fine, orange, **moist.**	
									9.1
									6.1
15			SS-4				SP	Poorly **graded Sand,** fine, orangish, **moist, orange-red** mottling at 15.5 feet.	
									4..
20									
									-3.9
25							SP	Poorly **graded Sand,** fine, white, water is Boiling.	
								End of **boring** at 26.0' bls.	-5.9
30									
35									
40									

Notes:
SS = Split Spoon

Samples Collected:
030S015302
030S015306
030C015306
030S015316
030K015316
030K015316
030X015316

EnSafe/Allen & Hoshall	Boring 30S158
Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist: *S. Howard*
Started at *on - -93*	Surface Elevation:
Completed at *on - -93*	Depth to Groundwater: Measured: */ /96*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *73.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
								Surface Conditions: Grass within wooded area	
			SS-1						
5									
			SS-f						
10									
			SS-3						
15									
			SS-4						
20							SP	Poorly **graded** Sand, fine, **brown** to **tan**.	
			SS-5						
25									
			SS-6						
30									
			SS-7						
35									
			SS-8						
40									

EnSafe/Allen & Hoshall

Boring 30S158

Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist: *S. Howard*
Started at *on - -93*	Surface Elevation:
Completed at *on - -93*	Depth to Groundwater: Measured: */ /96*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *73.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-9						
45									
			SS-10						
50							SP		
			SS-11						
55									
			SS-12						
60								Silty Clay, fine, gray.	31.2
			SS-13						
65							ML		
			SS-14						
70									
			SS-15				CL	Clay, gray.	-42.2
								End of boring at 73.0' bls.	-44.2
75									
80									

Notes;
SS = Split Spoon

Samples Collected:

EnSafe/Allen & Hoshall

Boring 30S16

Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist: *S. Howard*
Started at *1240 on 8-23-93*	Surface Elevation:
Completed at *on 8-24-93*	Depth to Groundwater: Measured: *8/23/93*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *16.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	≈LEV. (ft-msl)
			SS-1	79	0		SC	**Red Clayey Sand - Fill (0-1')**	24.2
			SS-2	79	0				
			SS-3	79	7				
5			SS-4	79	5				
			SS-5	88	14				
			SS-6	88	32		SP	Poorly **graded Sand, brown** to **gray grading to yellowish-brown** to tan to **white with depth, fine, moist** to **wet at depth,** becoming **more** clayey with **depth.**	
10			SS-7	50	2				
			SS-8	50	9				
15			SS-9	88	19				
								nd of **boring at** 16.0' bls.	9.2
20								Notes: SS = Split Spoon	
25								Samples Collected: 030S001602 030S001604 030S001606 030S001608 030K001608 030X001608 030S001610 030S001612 030S001614 030S001616 030S001618	
30									
35									
40									

EnSafe/Allen & Hoshall

Boring 30S17

Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Geologist: *S. Howard*
Started at *1410 on 8-18-93*	Surface Elevation:
Completed at *on 8-18-93*	Depth to Groundwater: Measured: *8/18/93*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *18.0 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1	75	0		SC	**Surface Conditions: Asphalt**	
			SS-2	75	0			**Red clayey Sand,** fine,	25.8
			SS-3	79	0				
5			3s-4	88	56				
			SS-5	83	0				
			SS-6	83	36.3		SP	Poorly **graded Sand,** fine, **brown** to **yellowish-orange** to tan to **white** with **depth,** becoming clayey with **depth, moist, groundwater** encountered at t8 feet **bts.**	
10			SS-7	83	36				
			SS-8	83	21				
15			SS-9	83	21				
			SS-10	83	14				
								End of boring at 18.0' bls.	8.8
20									
25									
30									
35									
40									

Notes:
SS = Split Spoon

Samples Collected:
030S001702
030S001704
030S001706
030S001708
030K001708
030X001708
030S001710
030C001710
030S001712
030S001714
030S001716
030S001718

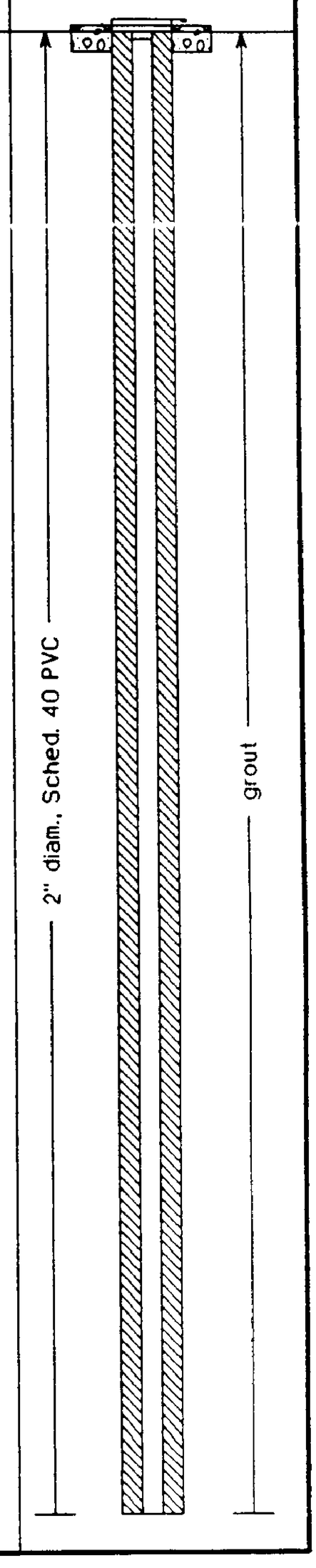
EnSafe/Allen & Hoshall

Monitoring Well 30GI07

Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *26.91 feet msl*
Started at *on 8-23-93*	TOC Elevation: *26.68 feet msl*
Completed at *on 8-23-93*	Depth to Groundwater: *16.16 feet* Measured: *4/02/96*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *10.52 feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *67.0 feet*
Geologist: *S. Howard*	Well Screen: *55 to 65 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1					Surface Conditions; Asphalt	
			SS-2						
5			SS-3		0.0				
			SS-4						
			SS-5						
10			SS-6				SP	Poorly **graded Sand,** fine, orange **to brown, moist** to **wet** at **22** feet.	
			SS-7						
15			SS-8						
			SS-9						
20			SS-10						
			SS-11						4.9
25									
									1.1
30			SS-12				SP	Poorly **graded Sand,** fine, brown, wet.	3.1
									6.1
35			SS-13				SP	Poorly **graded Sand,** fine, **brown,** wet, **some** clay-sized particals.	8.1
									11.1
40			SS-14				SP	Poorly graded Sand, fine, brown, wet.	13.1
									16.1
45			SS-15		0.0		SP/SC	Poorly **graded Sand** to Clayey Sand, fine, brown to greenish-gray **(clay),** clayey sand present in 2-inch **band.** plastic.	18.1

WELL DIAGRAM



EnSafe/Allen & Hoshall

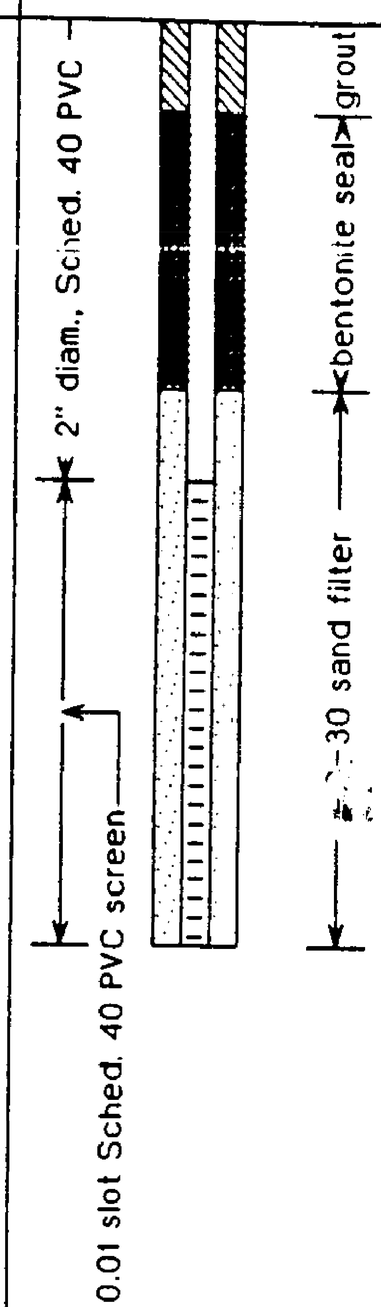
Monitoring Well 30GI07

Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *26.91 feet msl*
Started at *on 8-23-93*	TOC Elevation: *26.68 feet msl*
Completed at *on 8-23-93*	Depth to Groundwater: *16.16 feet* Measured: *4/02/96*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *10.52 feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *67.0 feet*
Geologist: *S. Howard*	Well Screen: *55* to *65* feet

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
50			SS-16		0.0		SP	Poorly graded Sand, fine, tan to orange, minor 0.5-inch clay pods.	21.1 23.1
55			SS-17				SP	Poorly **graded Sand,** fine, tan **to** orange, 0.5-inch greenish-gray clay **pods.**	26.1 28.1
60			SS-18	25			SP	**Poorly graded Sand,** fine, **white, small** greenish-gray **clay pods, fragments of rusted** metal.	31.1 33.1
65			SS-19				ML	Silty, Sandy Clay, greenish-gray, sand decreases with depth.	38.1
70								End of boring at 67.0' bls.	40.1
75									
80									
85									
90									

Notes:
SS = Split Spoon

WELL DIAGRAM



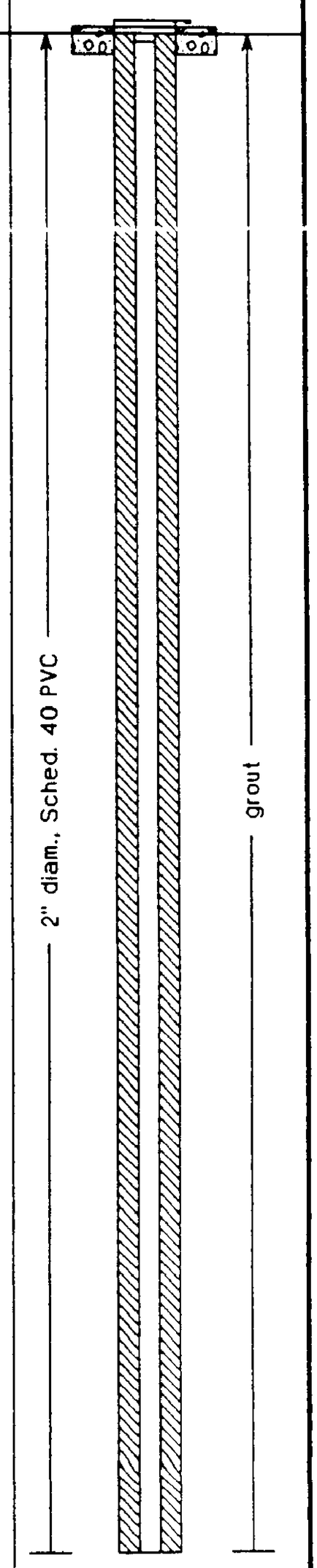
EnSafe/Allen & Hoshall

Monitoring Well 30GI09

Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *29.42 feet msl*
Started at *on 8-17-93*	TOC Elevation: *29.22 feet msl*
Completed at *on 8-17-93*	Depth to Groundwater: *18.63 feet* Measured: *4/02/96*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *10.59 feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *73.0 feet*
Geologist: *S. Howard*	Well Screen: *55 to 65 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
			SS-1	75	37			Surface **Conditions: Asphalt**	
			SS-2		12				
5			SS-3	75	6				
			SS-4						
			SS-5	79	15		SP	Poorly **graded Sand,** fine, orange to **brawn,** moist to **wet at** 22 **feet.**	
10			SS-6		7				
			SS-7	88	8				
15			SS-8		21				
			SS-9	83	233				11.4
20									
25			SS-10	83	9		SP	Poorly **graded** Sand, fine, **white, minor black patches (decomposed** roots?), **isolated black** to green **clay,** wet.	6.4 / 4.4
30			SS-11				SP	Poorly **graded** Sand, fine, brown, wet.	1.4 / -.6
35			SS-12				SP	Poorly graded Sand, fine, brown, wet, some clay-**sized** particals.	-3.6 / -5.6
40			SS-13	33			SP	Poorly **graded** Sand, fine, brown, wet,	-8.6 / -10.6
45			SS-14				SP	Poorly **graded** Sand to Clayey Sand, fine, **brown** to greenish-gray (clay), clayey sand present in 2-inch **band,** plastic.	-13.6 / -15.6

WELL DIAGRAM



EnSafe/Allen & Hoshall

Monitoring Well 30GI09

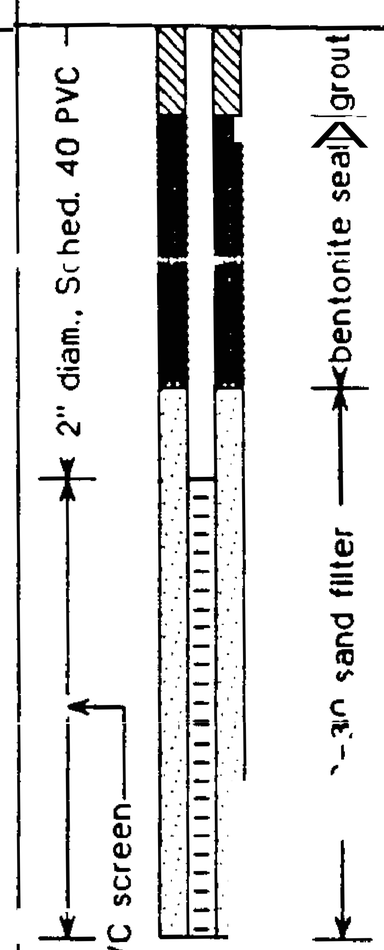
Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *29.42 feet msl*
Started at *on 8-17-93*	TOC Elevation: *29.22 feet msl*
Completed at *on 8-17-93*	Depth to Groundwater: *18.63 feet* Measured: *4/02/96*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *10.59 feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *73.0 feet*
Geologist: *S. Howard*	Well Screen: *55 to 65 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
									5.6
50			SS-15	0				No Recovery.	18.6 / 20.6
55			SS-16				SP	Poorly **graded Sand,** fine, **tan** to orange, 0.5-inch **greenish-gray clay pods,**	23.6 / 25.6
			SS-17	25			SP	Poorly **graded Sand,** fine, **white, small greenish-gray clay pods, fragments of rusted** metal.	29.6
60			SS-18						
			SS-19	92					
			S-20						
			S-21						
65			S-22				SC	Silty, Sandy Clay, greenish-gray, **sand decreases** with depth.	
			SS-23						
70			S-24					End of **boring at** 70.0' bls.	43.6
75									
85									
90									

Notes:
SS = Split Spoon

Samples Collected:

WELL DIAGRAM

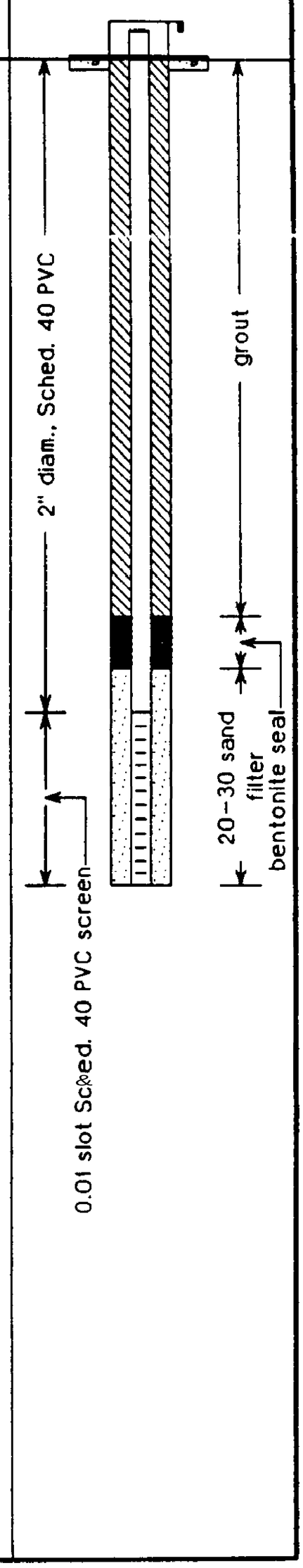


EnSafe/Allen & Hoshall	Monitoring Well 30GI111
Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *7.24 feet msl*
Started at *0700 on 9-16-93*	TOC Elevation: *9.47 feet msl*
Completed at *1030 on 9-16-93*	Depth to Groundwater: *7.53 feet* Measured: *4/02/96*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *1.94 feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *49.0 feet*
Geologist: *S. Howard*	Well Screen: *38 to 48 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
								Surface Conditions: Sand	
5									
10									
15									
20			SS-1				SP	Poorly graded Sand, fine, brown.	10.8 / 12.8
25			SS-2				SP	Poorly graded Sand, fine, brown, nodule of orange clayey sand at 24 feet.	15.8 / 17.8
30				0				No Recovery	20.8 / 22.8
35			SS-3				SP	Poorly graded Sand, fine, white.	25.8 / 27.8
40			SS-4				SP	Poorly graded Sand, fine, white, poor recovery.	30.8 / 32.8
45			SS-5 / ss-6 / SS-7				SC / CL	Clayey Sand, poorly graded, fine, white to gray, increasing clay with depth, shell fragments lower in interval.	35.8 / 39.8 / 41.8
50								Clay, moderately stiff, greenish-gray.	
55								End of boring at 49.0' bls.	
60									
65									
70									
75									
80									
85									

Notes:
SS = Split Spoon

WELL DIAGRAM



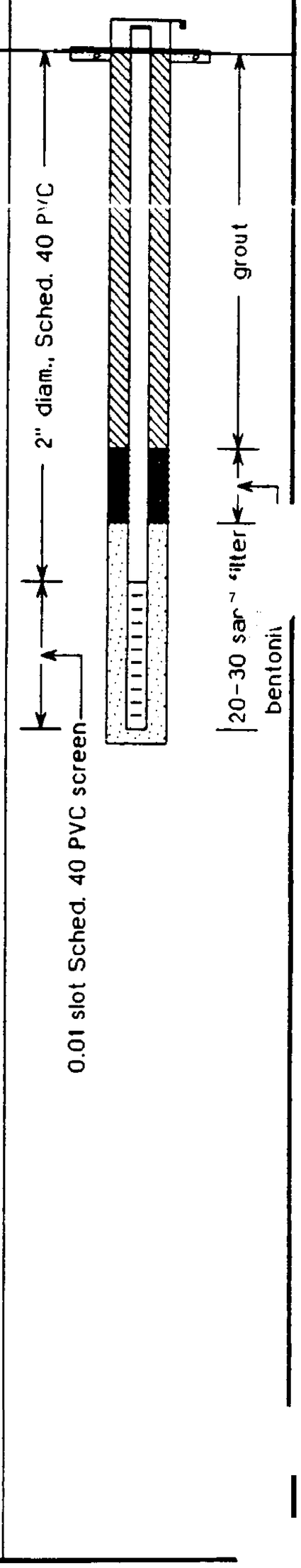
EnSafe/Allen & Hoshall

Monitoring Well 30GI113

Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *7.36 feet msl*
Started at *on 9-20-93*	TOC Elevation: *9.56 feet msl*
Completed at *on 9-20-93*	Depth to Groundwater: *8.42 feet* Measured: *4/02/96*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *1.14 feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *47.0 feet*
Geologist: *S. Howard*	Well Screen: *36 to 46 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
								Surface Conditions: Grass	
								See lithology for 30GS113 for **depths 0 to 12** feet bls.	
20			SS-1	58			SP	**Poorly graded Sand,** fine, white.	10.6 / 12.6
25			SS-2	58			SP	Poorly **graded Sand, fine, tan to white, minor sandy clay,**	15.6 / 17.6
30			SS-3	58					20.6 / 22.6
35			SS-4	2			SP	Poor sand. **Poorly graded Sand, fine,** tan, **minor clayey sand.**	25.6 / 27.6
40			SS-5				SP		30.6 / 32.6
45			SS-6				SC	Poorly graded Sand, fine, white.	35.6
			SS-7				OH		-376 / -39.6
50								**Poorly graded Sand, fine, greenish-gray, slightly clayey.**	
60								**Clayey Sand, poorly graded,** fine, greenish-gray, **increasingly** clayey **with depth, shell fragments lower in** interval,	
65								**Clay,** moderately stiff to very **stiff at base,** greenish-gray.	
70								**End** of **boring at 47.0' bls.**	

WELL DIAGRAM



Notes:
SS = Split Spoon

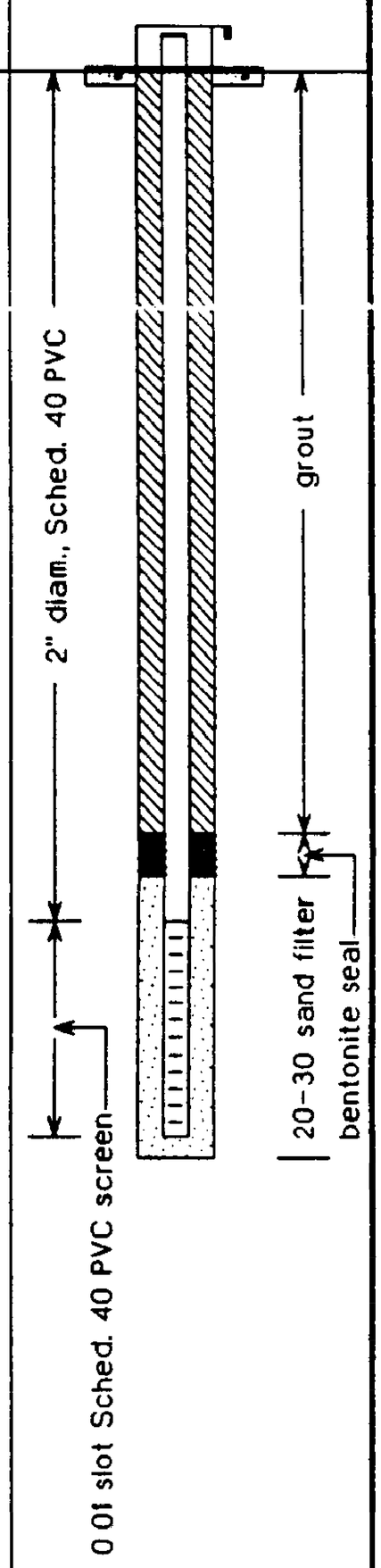
Samples Collected:

EnSafe/Allen & Hoshall	Monitoring Well 30GI126
Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *9.74 feet msl*
Started at *1400 on 9-13-93*	TOC Elevation: *11.84 feet msl*
Completed at *on 9-14-93*	Depth to Groundwater: *8.62 feet* Measured: *4/02/96*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *3.22 feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *50.0 feet*
Geologist: *S. Howard*	Well Screen: *39 to 49 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
								Surface Conditions: Sand	
								See lithology **for** 30GS126 for **depths 0** to **14** feet **bls.**	
5									
10									
15									
20			SS-1	100	0.0		SP	Poorly **graded Sand,** fine, **brown.**	8.3 / 10.3
25			SS-2	96	0.0		SP	**Poorly graded Sand,** fine, **brawn to tan.**	13.3 / 15.3
30			SS-3	17	0.0		SP	Poorly **graded Sand,** fine, **white.**	18.3 / 20.3
35			SS-4	50	0.0		SP	Poorly **graded Sand, fine, white.**	233 / 253
40			SS-5				SP	**Poorly graded Sand, fine, white to gray, slightly clayey.**	283 / 30.3
45			SS-6	0					
50							SP / SC	**No Recovery**	38.3 / 39.3 / 40.3
55							CH	**Clayey Sand,** poorly **graded, fine, greenish-gray, increasingly clayey with** depth.	
60								**Clay, moderately stiff** to **very stiff** at **base, greenish-gray, bands of disseminated shells.**	
65								**End** of **boring** at 50.0' bls.	
TO									
75									
80									
85									

Notes:
SS = Split Spoon

WELL DIAGRAM



EnSafe/Allen & Hoshall

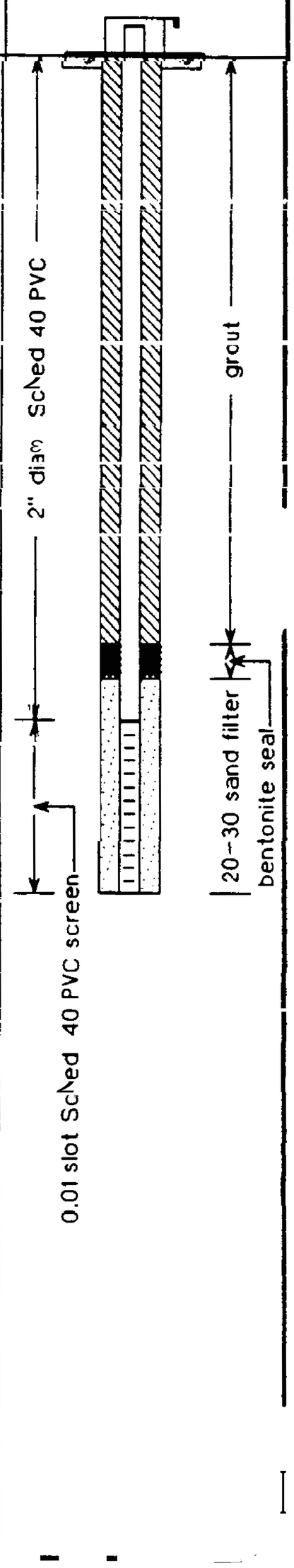
Monitoring Well 30GI19

Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *13.94 feet msl*
Started at *on 8-26-93*	TOC Elevation: *16.13 feet msl*
Completed at *on 8-26-93*	Depth to Groundwater: *8.53 feet* Measured: *4/02/96*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *7.60 feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *51.0 feet*
Geologist: *S. Howard*	Well Screen: *38.5 to 48.5 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	NO	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
								Surface Conditions: Humic Material	
20			SS-1	100	0.0		SP	Poorly graded Sand, fine, tan to brown, occasional roots.	5.1 / 7.1
25			SS-2	100	0.0		SP	Poorly graded Sand, fine, tan to brown, occasional plant matter (bark, roots)	10.1 / 12.1
30			SS-3	100	0.0		SP		15.1 / 17.1
35			SS-4	96	0.0		SP	Poorly graded Sand, fine, orange to light brown, 2-inch thick clayey sand lense at 29 feet, orange to brown.	20.1 / 22.1
40			SS-5	92			SP		25.1 / 27.1
45			SS-6		0.0		SP	Poorly graded Sand, fine, white, occasional roots.	32.1
			SS-7		0.0		SC		34.1
50			SS-8		0.0		SP	Poorly graded Sand, fine, tan, slightly clayey (orange, fine).	37.1
55									
60								Poorly graded Sand, fine, tan, becoming slightly clayey at 44.5 (gray)	
65								Clayey Sand, fine, grayish-green.	
70								Poorly graded Sand, fine, grayish-green.	
75								End of boring at 51.0' bls.	
80									
85									

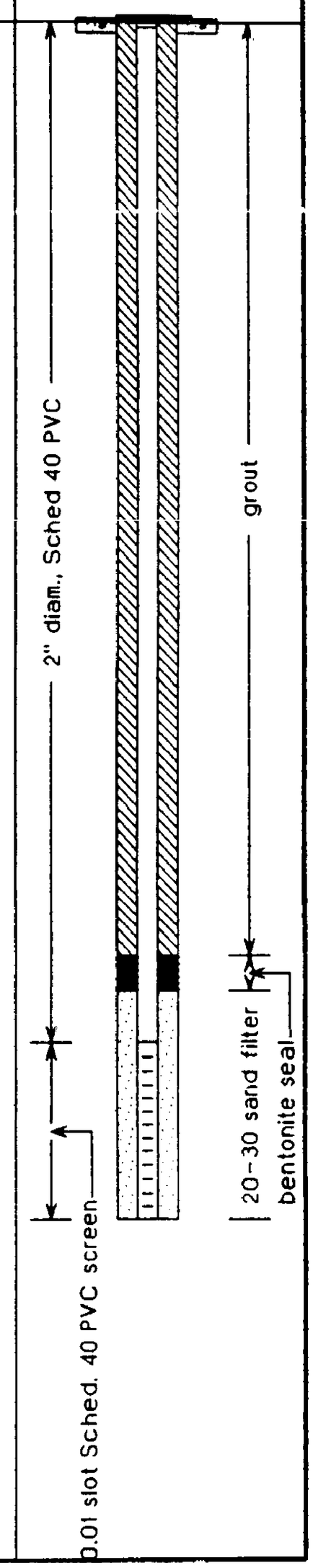
Notes:
SS = Split Spoon

WELL DIAGRAM



EnSafe/Allen & Hoshall	Monitoring Well 30GI60
Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *27.42 feet msl*
Started at *on - -93*	TOC Elevation: *27.16 feet msl*
Completed at *on - -93*	Depth to Groundwater: *16.70 feet* Measured: *4/02/96*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *10.46 feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *68.0 feet*
Geologist: *S. Howard*	Well Screen: *58 to 68 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)	WELL DIAGRAM
5										
10										
15								Lithology Log Lost		
20										
25										
30										
35										
40										
45										
50										
55								Lithology Log Lost		
60										
65										
70								End of boring at 68.0' bls.		
75										
80										
85										



EnSafe/Allen & Hoshall

Monitoring Well 30GI19

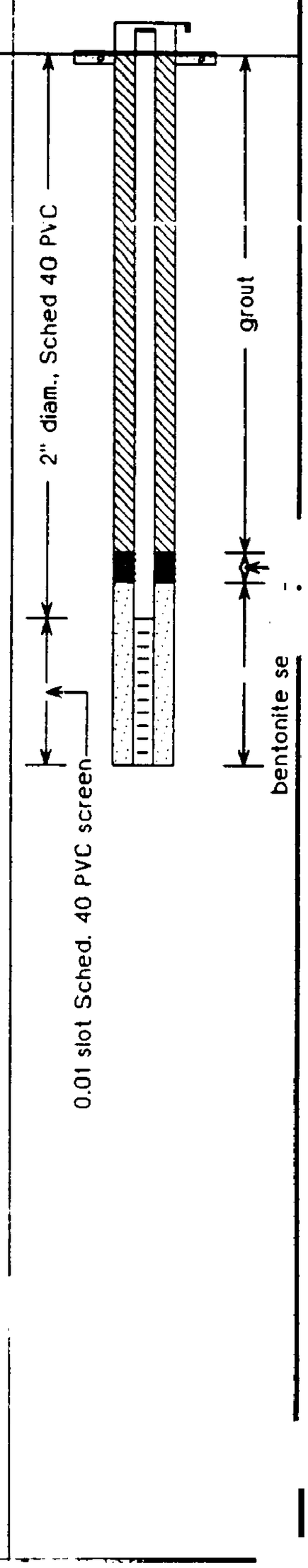
Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *13.94 feet msl*
Started at *on 8-26-93*	TOC Elevation: *16.13 feet msl*
Completed at *on 8-26-93*	Depth to Groundwater: *8.53 feet* Measured: *4/02/96*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *7.60 feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *51.0 feet*
Geologist: *S. Howard*	Well Screen: *38.5 to 48.5 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)
								Surface **Conditions: Humic Material**	
20			SS-1	100	0.0		SP	**Poorly graded Sand,** fine, tan to brown, **occasional roots.**	5.1
25			SS-2	100	0.0		SP		7.1 / 10.1 / 12.1
30			SS-3	100	0.0		SP	Poorly **graded Sand,** fine, **tan** to brown, **occasional plant matter (bark,** roots)	15.1 / 17.1
35			SS-4	96	0.0		SP		20.1 / 22.1
40			SS-5	92			SP	Poorly **graded Sand,** fine, **orange** to light **brown, 2-inch** thick **clayey sand lense** at **29** feet, orange to **brown.**	25.1 / 27.1
45			SS-6		0.0		SP		30.1 / 32.1
			SS-7		0.0		SP	Poorly **graded Sand, fine, white,** occasional roots.	34.1 / 35.1
50			SS-8		0.0		SP		37.1
55								Poorly **graded Sand,** fine, tan, **slightly** clayey (orange, fine).	
60									
65								**Poorly graded Sand,** fine, tan, **becoming slightly clayey at 44.5** (gray)	
70								**Clayey Sand,** fine, grayish-green.	
75									
80								Poorly **graded Sand,** fine, grayish-green. **End of boring** at 51.0' bls.	
85									
90									
95									
100									

Notes:
SS = Split Spoon

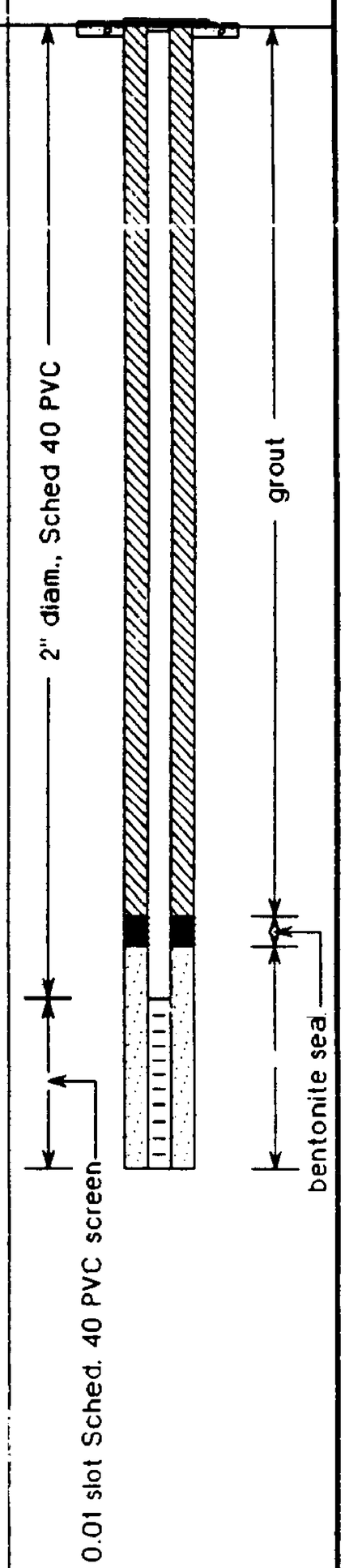
Samples Collected:

WELL DIAGRAM



EnSafe/Allen & Hoshall

Monitoring Well 30GI60

Project: *Site 30*	Location: *NAS Pensacola*
Project No.: *0058-00030*	Surface Elevation: *27.42 feet msl*
Started at *on - -93*	TOC Elevation: *27.16 feet msl*
Completed at *on - -93*	Depth to Groundwater: *16.70 feet* Measured: *4/02/96*
Drilling Method: *4.25" ID Hollow Stem Auger*	Groundwater Elevation: *1046 feet msl*
Drilling Company: *Kelly Drilling Co.*	Total Depth: *68.0 feet*
Geologist: *S. Howard*	Well Screen: *58 to 68 feet*

DEPTH IN FEET	LITHOLOGIC SAMPLE	ANALYTICAL SAMPLE	SAMPLE NO.	% RECOVERY	PID (ppm)	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	ELEV. (ft-msl)	WELL DIAGRAM
5										
10										
15										
20										
25										
30										
35										
40										
45										
50										
55										
60										
65										
70								**End of boring** at **68.0'bls.**		
75								**Notes:** SS = Split Spoon		
80								**Samples** Collected:		
85										
90										
95										
100