FINAL

PHASE II REMEDIAL INVESTIGATION REPORT

FOR THE

LOAD LINE 1 AT THE RAVENNA ARMY AMMUNITION PLANT, RAVENNA, OHIO

VOLUME 2—APPENDICS A – S

PREPARED FOR



US Army Corps of Engineers®

U.S. Army Corps of Engineers – Louisville District Contract No. DACA62-00-D-0001 Delivery Order CY09

June 2003



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VOLUME 2 – APPENDICES A-S

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Prepared by

Science Applications International Corporation 151 Lafayette Drive Oak Ridge, Tennessee 37830

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION

contributed to the preparation of this document and should not be considered an eligible contractor for its review.

APPENDIX A

SOIL SAMPLING LOGS

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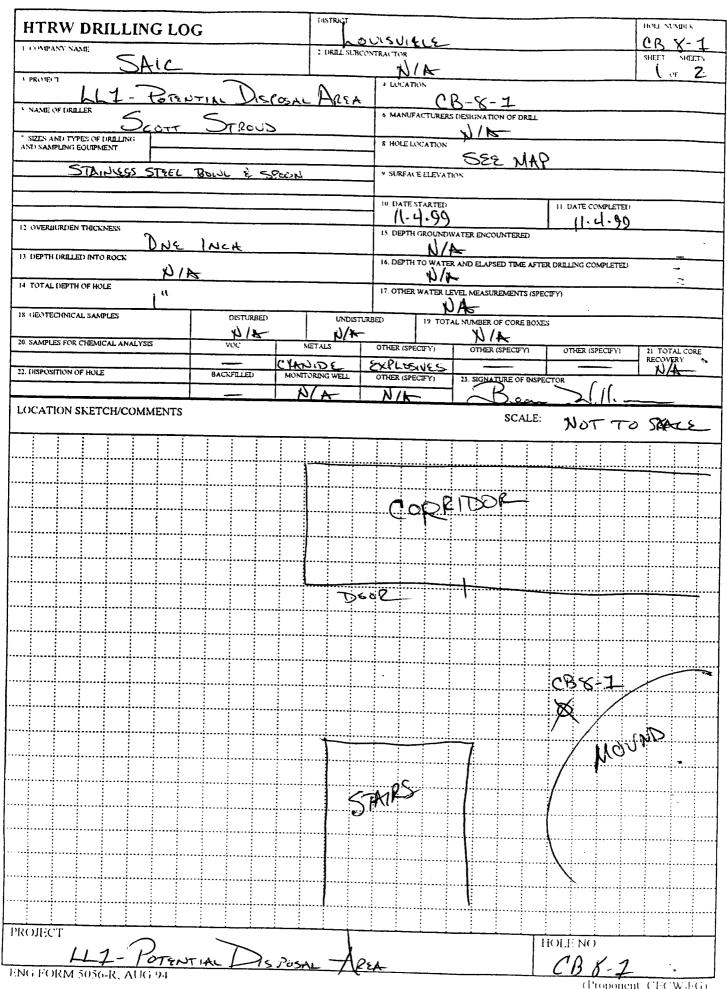
Soil Sampling Logs

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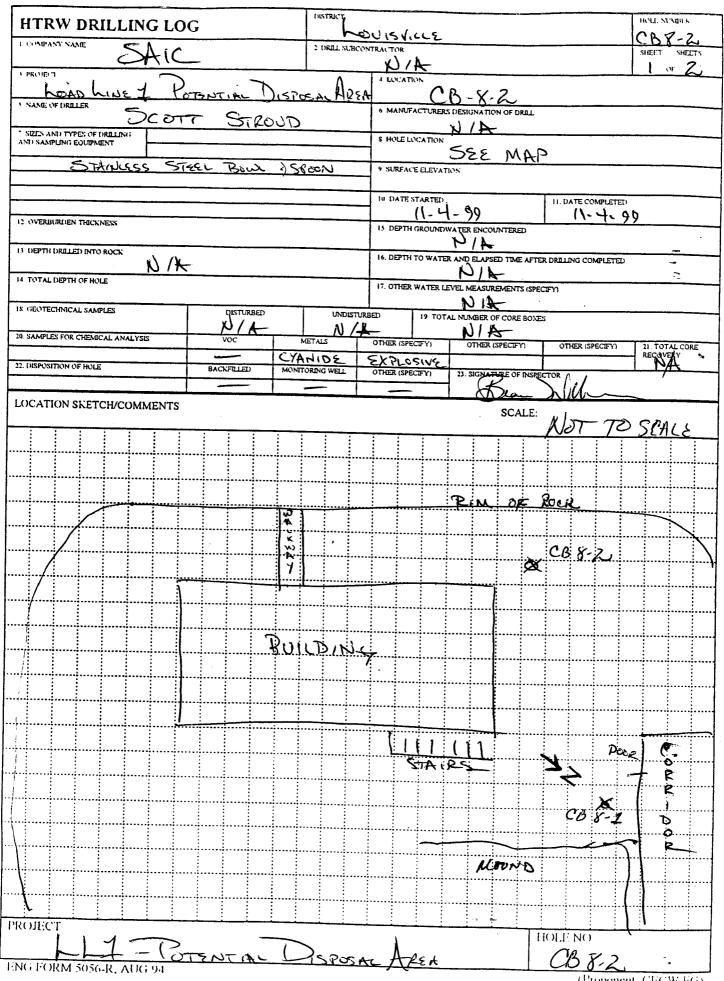
HTRW Drilling Log – Maps

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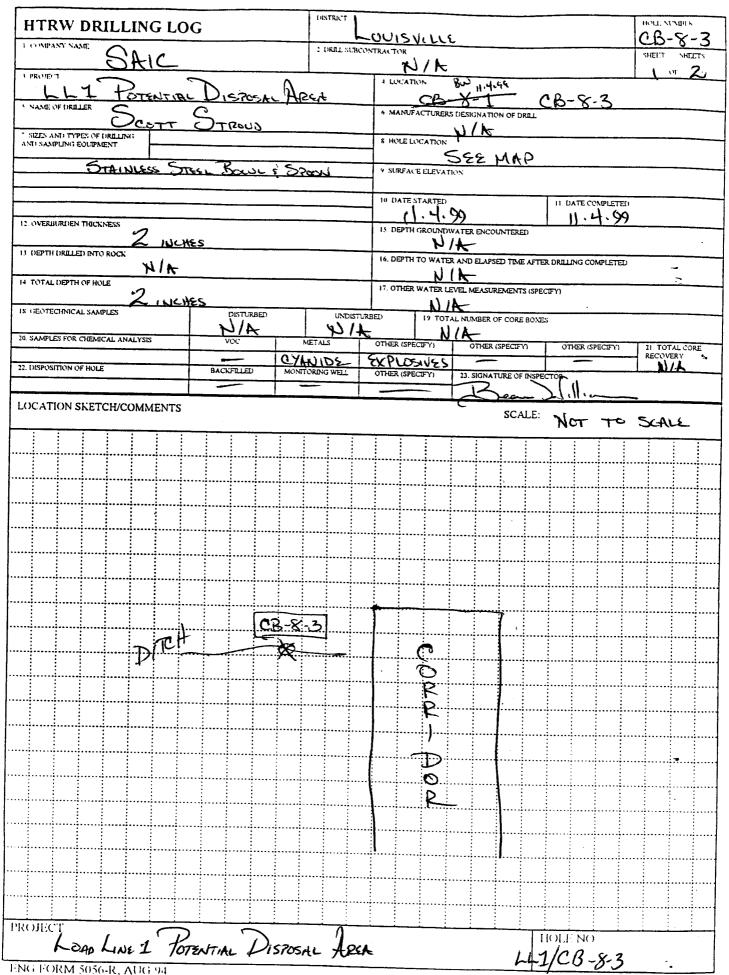


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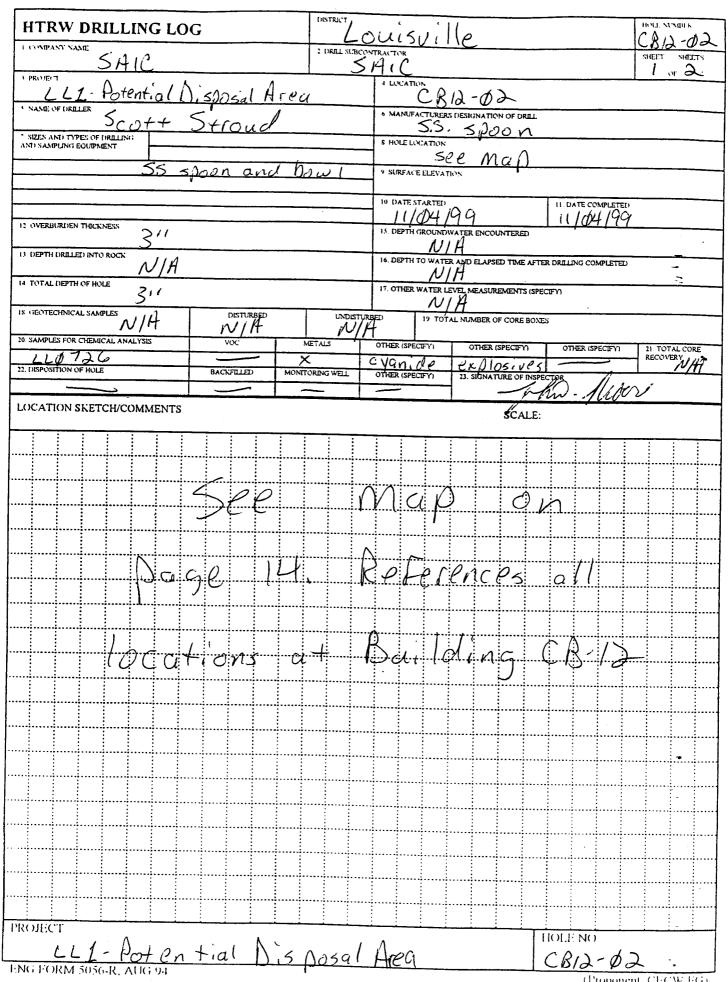
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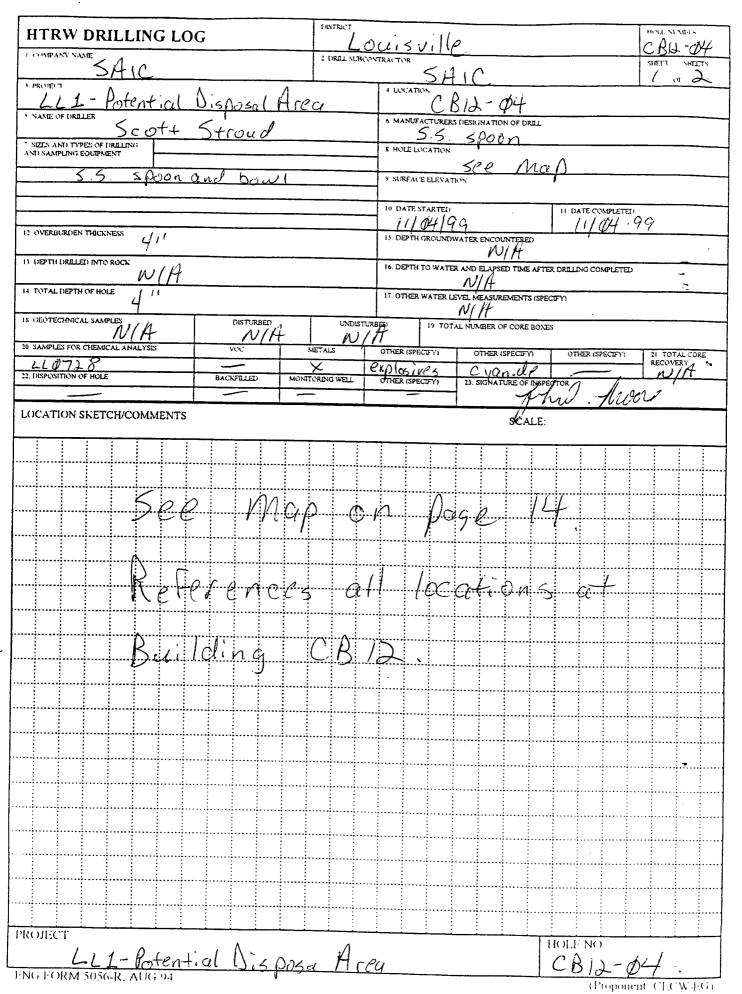
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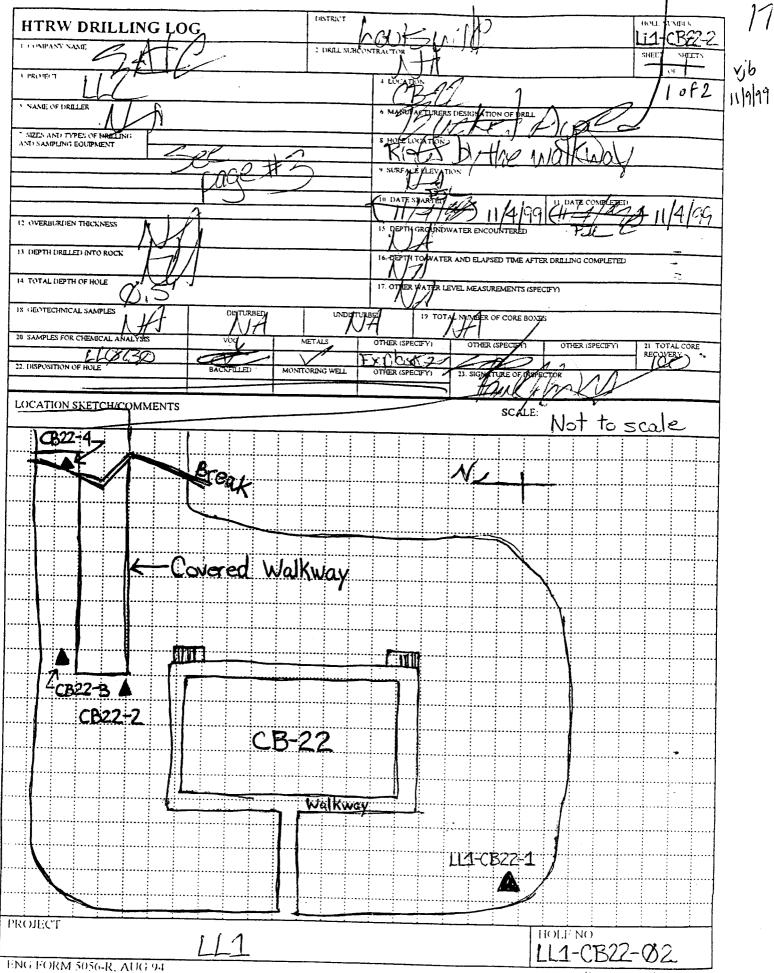
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(Proponent CECWEG)



(Proponent CECW/EG)

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(Proponent CECW-EG)

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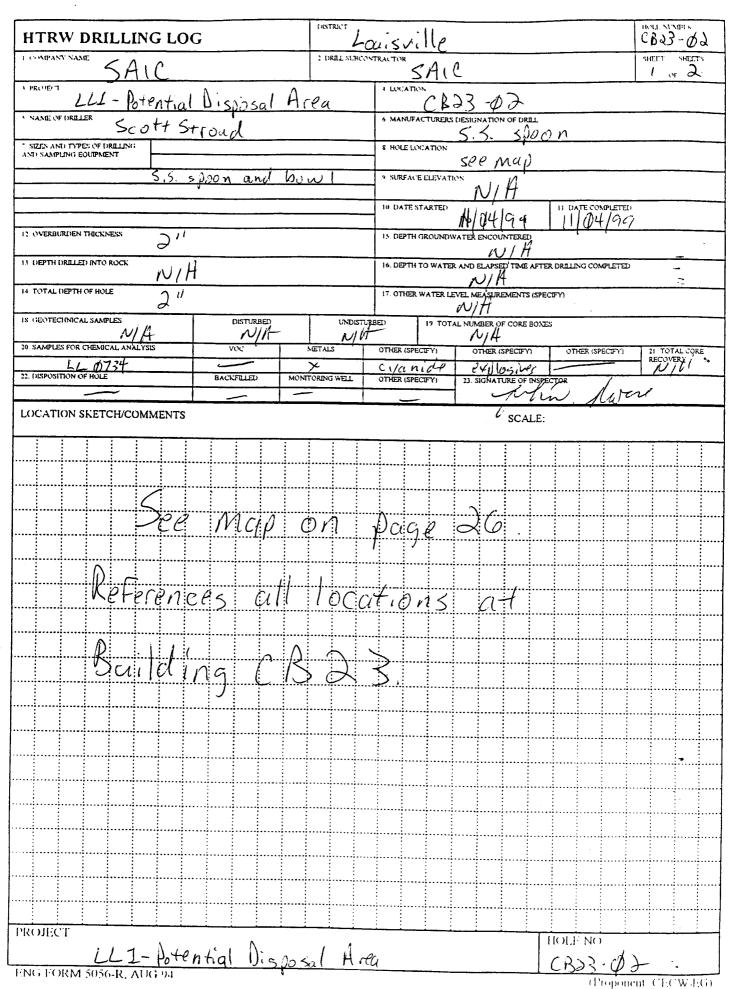
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(Proponent CECW/EG)



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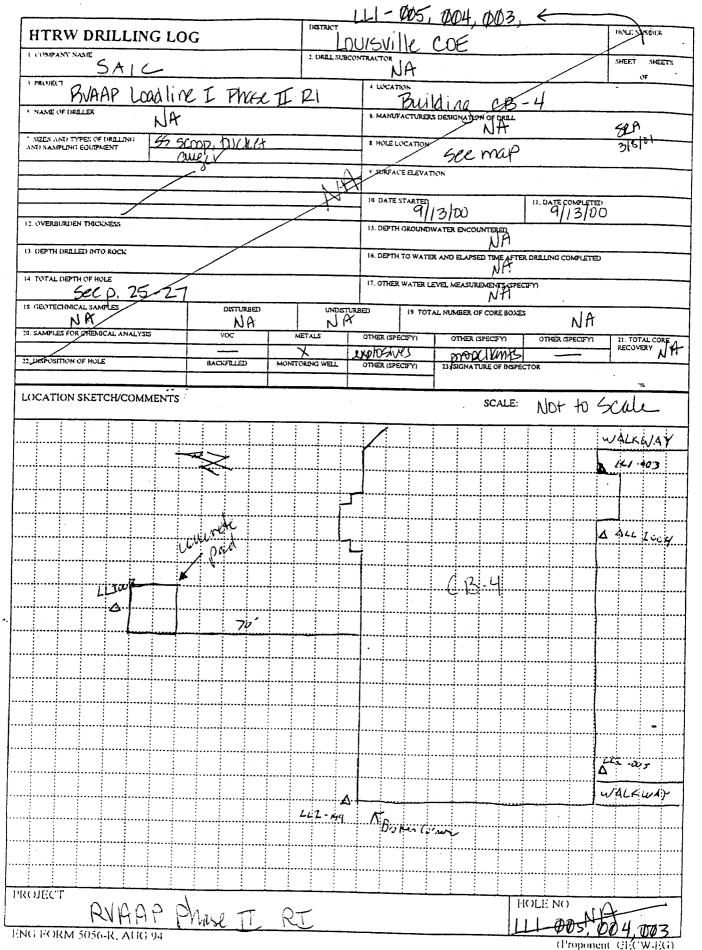
LLI-144, LLI-145, LLI-146, LLI-001 5 HOU MINDER HTRW DRILLING LOG LOUISVILLE 1 COMPANY NAME 1. DRELL SUBCONTRACTO SALC SHEET SHEETS 5 PROVECT 4 LOCATION RUAAP LU/ Phose I RI CB-4 SAME OF DRELLER MANUFACTURERS DESIGNATION OF DRILL NA 45 Beaps and butter augy SIZES AND TYPES OF DRELING AND SAMPLING EQUIPMENT HOLE LOCATION SRA 318/01 bee May SURFACE ELEVA 11. DATE COMPLETED 9/19/00 9/12/00 11. OVERBURDEN THICKNESS 15. DEPTH GROUNDWATER ENCOUNTERED NA NA 13. DEPTH DRILLED INTO ROCK 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED NA 14 TOTAL DEPTH OF HOLE 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) See p. 4-" X AATIS 19. TOTAL NUMBER OF CORE BOXES IS GEOTECHNICAL SAMPLES UNDISTURBED 20. SAMPLES FOR CHEMICAL VOC METALS OTHER (SPECIFY) OTHER (SPECIFY) OTHER (SPECIFY) 21. TOTAL CORE RECOVERY X BACKFULE X ATORING WELL SVOC EXPTOSives PRODULIAMES 22. DISPOSER IN OF HOLE OTHER (SPECIFY) Jes 512A 3-8-01 LOCATION SKETCH/COMMENTS SCALE: NOT to Scale (XY) , AL 111-145 -3311 FA-141-144 LLIMWSI LLI-146 20 2 49 2'9" 10 WALKWAY 1-001 A' D' A Pre -- **C**e; të1  $\Delta$ LA-+17 A PROJECT HOLE NO IAAP N Phase I RI +44, 145, 146, 281 LL ENG FORM 5056-R, AUG 94 (Proponent CECW-EG)

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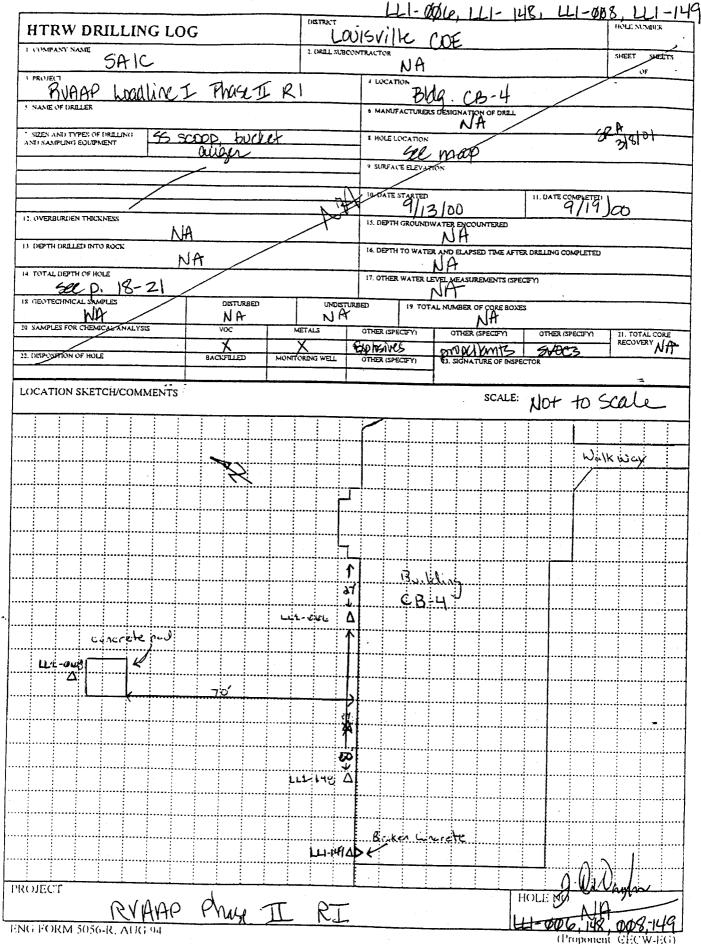
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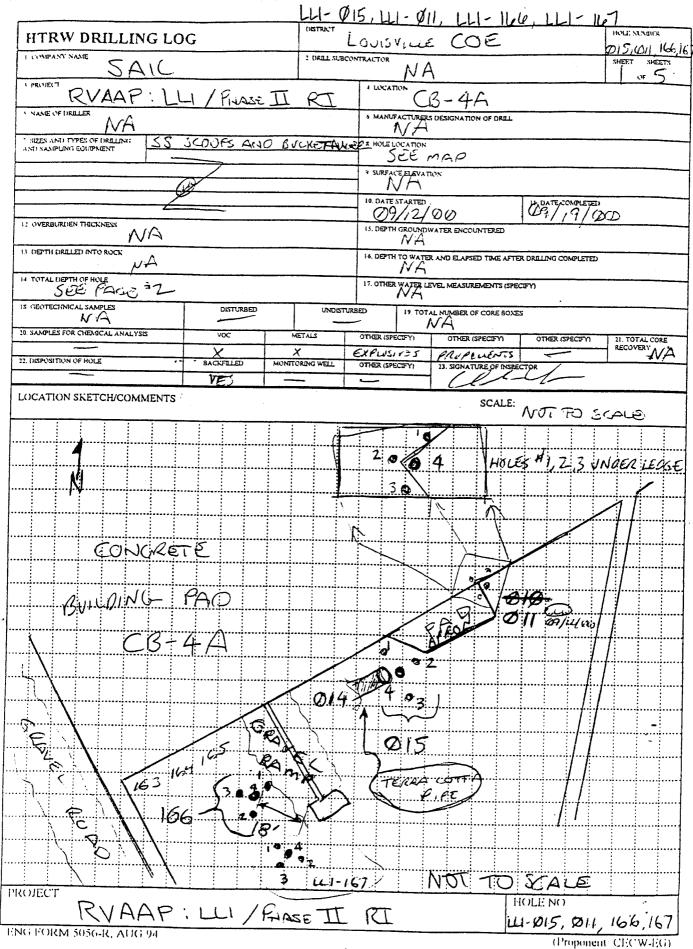


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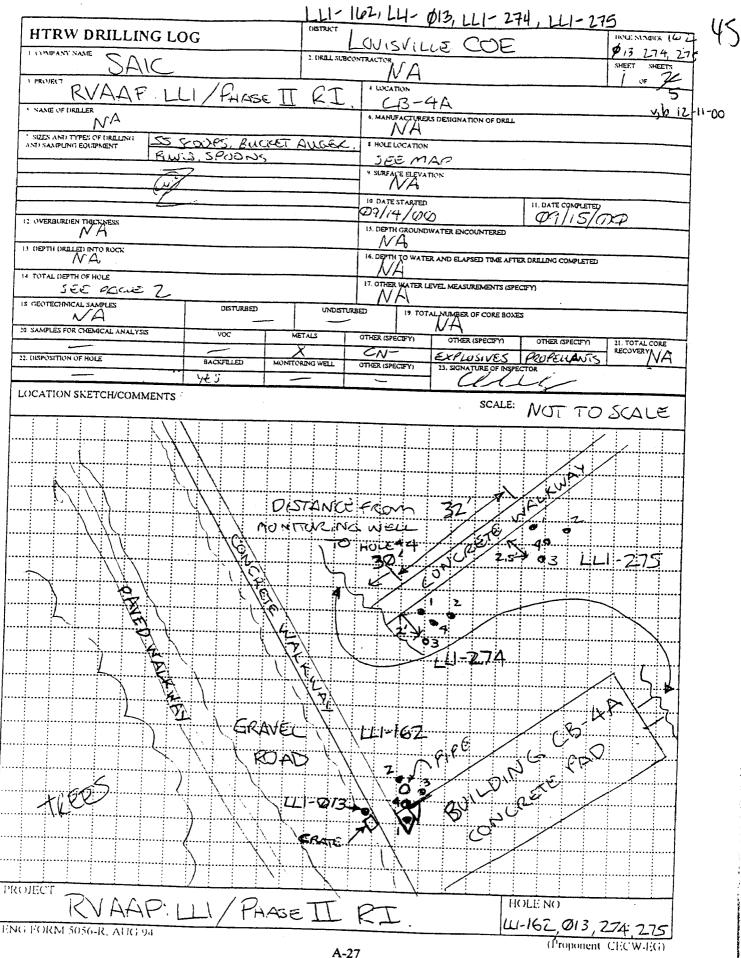


(Proponent CECW-EG)

LLI - 009, LLI- 010, LLI- 159, LLI-160 DISTRC HTRW DRILLING LOG HOLE NUMBER OUISVILLE COE 007, 114, 157, 160 1. COMPANY NAME 1 URAL SUBCONTRACTOR SHEET SHEETS 1C ЪV vr 5 PRIVECT + LOCAT -LI/PHASETIR.I B 44 SAME OF DRELER 6. MANUFACTURERS DESIGNATION OF DRILL SIZES AND TYPES OF DRELLING AND SAMPLING EOUPMENT JCODPS BULLET AUGER . HOLE LOCATION 800 SH SPACENS XÈE MAD " SURFACE ELEVATION 10. DATE STARTED 11. DATE COMPLETED 09/14 1an 12 OVERBURDEN THICKNESS 15. DEPTH GROUNDWATER ENCOUNTERED NH 13 DEPTH DRILLED INTO ROCK 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED N NA TOTAL DEPTH OF HOL 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) Sec PAGE 2 MA IS GEOTECHNICALS SAMPLES DISTURBED UNDISTURBED 19. TOTAL NUMBER OF CORE BOXES 20. SAMPLES FOR CHEMICAL ANALYSIS VOC METALS OTHER (SPECIFY) OTHER (SPECIFY) 21. TOTAL CORE RECOVERY OTHER (SPECIFY) × CN EXFLOSIVES FRU SELLANT 22. DISPOSITION OF HOLE BACKFILLET MONITORING WELL OTHER (SPECIFY) 23. SIGNATURE OF INSPECTO VES 0 -LOCATION SKETCH/COMMENTS SCALE: NOT TO SCALE RIPICE GNO 20NE 21 STOR 11-159 \$ 11-009 U-1-16Ø PIP 41-01ø 30 5 <u>7</u>.0 JON CONTE 60 NORTH PROJECT RVAAP. LLI/FASSETI R.I HOLE NO LU-009,010,157,160 ENG FORM 5056-R, AUG 94 (Proponent CECW-EG)



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LLI-168, LLI-0110, LLI-204, LLI-156 168,016,204;156 HTRW DRILLING LOG LOVISVILLE COE 1. COMPANY NAME 1 DELL SUBCONTRACTOR SHEET SHEETS 1- or 5 PROJECT PILLI PHASE I RI 4 LOCATION Riv 4A NAME OF ORELER NA 6 MANUFACTURERS DESIGNATION OF DRILL * SIZES AND TYPES OF URLLING AND SAMPLING EQUIPMENT 55 SCOUPS AND BULLET HOLELOCATION FE MAP BUNS + SADIN Aucions ίŪ 10. DATE STARTED II. DATE COMPLETED Q9/13/(00) 09/19/00 12. OVERBURDEN THICKNESS 13. DEPTH GROUNDWATER ENCOUNTERED VA 13 DEPTH DRILLED INTO ROC 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED NA 14 TOTAL DEPTH OF HOLE 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) SEE PAG IS GEOTECHINCAL SAMPLES OISTURAED UNDISTURBED 19. TOTAL NUMBER OF CORE BOXES NA (mc X 10. SAMPLES FOR CHEMICAL ANALYSIS METALS voc OTHER (SPECIFY) OTHER (SPECEY) 21. TOTAL CORE OTHER (SPECIFY) X BACKFELLEI Х EXPLOSIVES FROPELIENTS CN-SKIL 22. DISPOSITION OF HOLE MONTTORING WELL OTHER (SPECIFY) -LOCATION SKETCH/COMMENTS SCALE: NUT TO SCALE LL1-156 NOT TO SCALE 1 NERT Ø 3 SIDEWAY J. 1-204 63 CB^TAP  $\leq_{\mathcal{O}}$ 1-168 ROCK BULLENCO RUBBLE 0 9 QAD (166 16.5 4. 167 LU-DIG MORTA NOTTOSCALE PROJECT RVAAP: LLI/PHASE II HOLE NO RI W-168,016.204,156 ENG FORM 5056-R, AUG 94

(Proponent CECW-EG)

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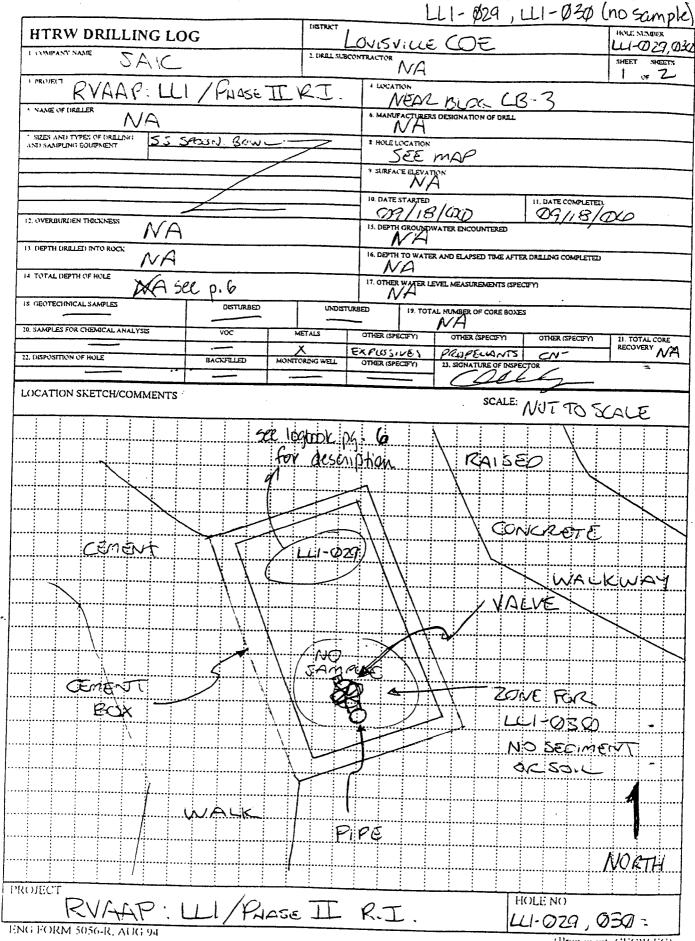
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(Proponent: CECW-EG)

HTRW DRILLING LO	G	USTLC	T		-124, LLI-1 2 COE		HOLE SUSPER
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(Proponent CECW-EG)

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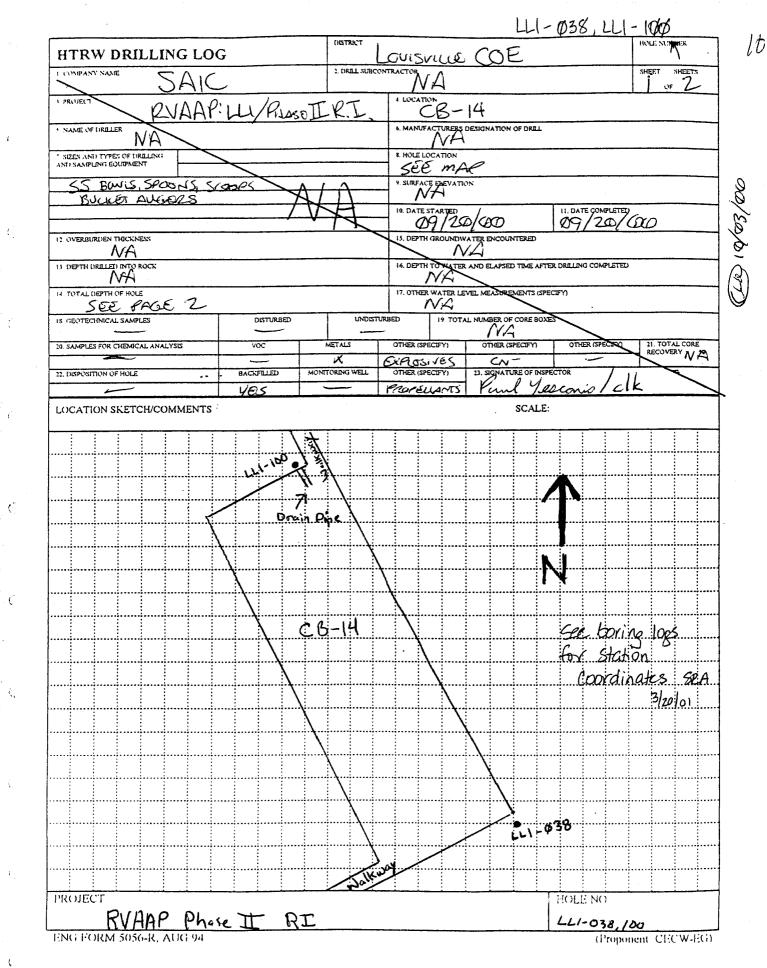
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COMPANY NAME	416	), DRILL SUBCO			SHEET SHEETS
RVAAP []]	/ PHASE II	K.T.	4 LOCATION	LOING CB-13	
NAME OF DRILLER			4. MANUFACTURE	RS DESIGNATION OF DREL	
SIZEN AND TYPEN OF DRELLING		somer,	1. HOLE LOCATION		
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C. OVERBURDEN THICKNESS A			09/2	6/00 11. DATE COMPLE 07/2	9/90
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<u>502 PAGE</u>				LEVEL MEASUREMENTS (SPECIFY)	
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(Proponent CECW-EG)

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(Proponent_CECW-EG)

HTRW DRILLING LO	9G		LOUISVILL	COL		HOLE STANGER
SAIC	c	1. ORAL SUBCO	NTRACTOR NA			SHEET SHEETS
PRIVECT	LLI /PHASE II	£ (	4 LOCATION			I or 2
NAME OF DRILLER	LLI / PHILIC IL	<u>K.</u> /	6. MANUFACTURE	DESIGNATION OF DRILL		
SIZES AND TYPES OF DRILLING C				NA		
NU SAMPLING EQUIPMENT	ICEST AUGERS	<u>&gt;,</u>				
$\longrightarrow$			9. SURFACE ELEVAT			
			IG. DATE STARTED		11. DATE COMPLETED	
OVERBURDEN THICKNESS			the second s	ATER ENCOUNTERED	09/25/	a cu
DEPTH DRILLED INTO ROCK				Na		
NA			16. DEPTH TO WATES	AND ELAPSED TIME AFTE	R DRILLING COMPLETED	 
TOTAL DEPTH OF HOLE			17. OTHER WATER LE	VEL MEASUREMENTS (SPE	೧೯೪	
GEOTECHNICAL SAMPLES	DISTURBED	UNDISTUR	BED 19. TOTA	NA NUMBER OF CORE BOXE	S	
SAMPLES FOR CHEMICAL ANALYSIS	VOC M	ETALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE
DISPOSITION OF HOLE	BACKFELLED MONTE	X	571115151	LANTS 23. SIGNATURE OF INSPE		RECOVERY
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CATION SKETCH/COMMENTS				SCALE:		
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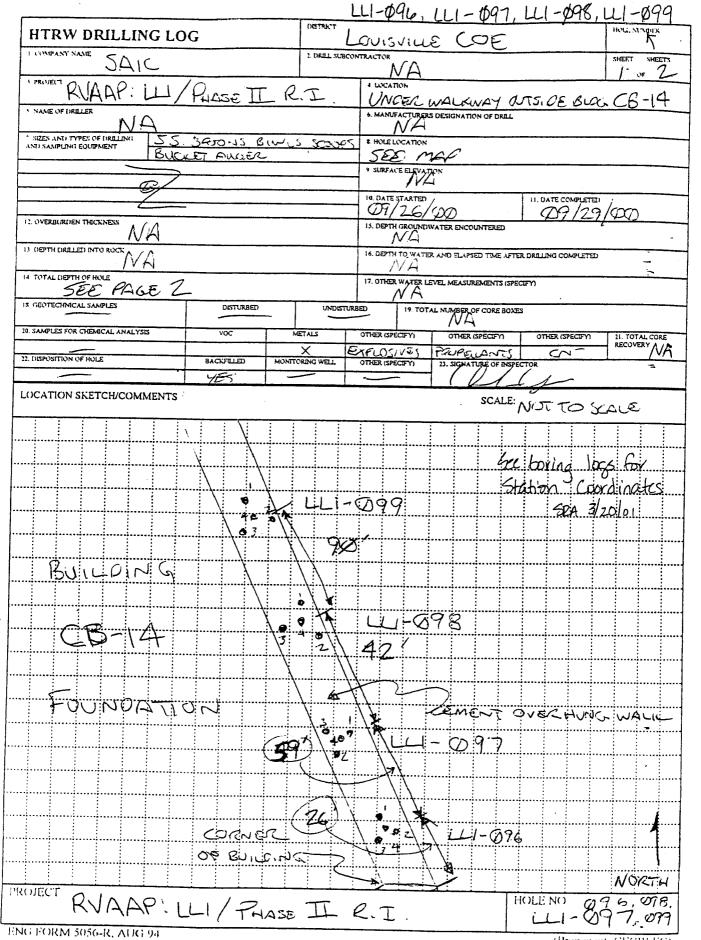
(Proponent CECW-EG)

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POSITION OF	HOLE		<u></u>		*		-	Ż	ĸ		•~						·			-	RECOV		
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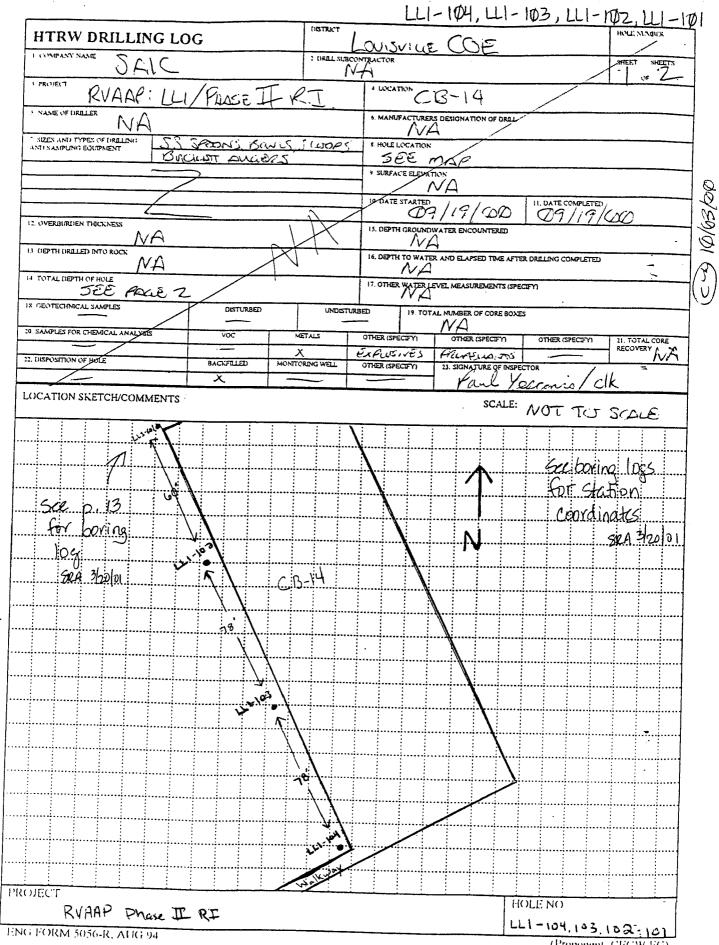
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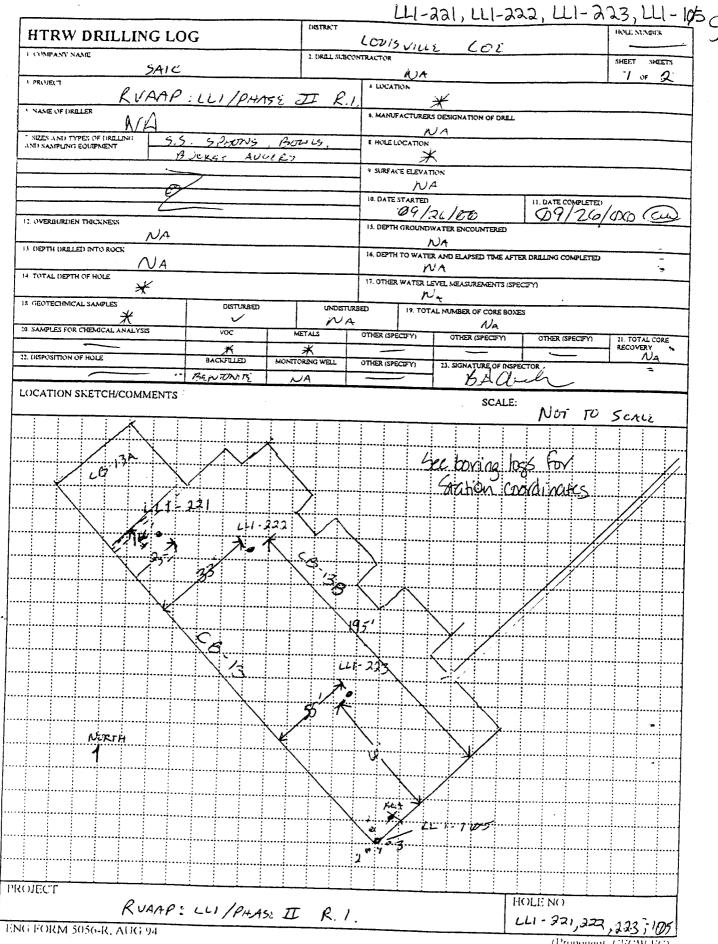
(Proponent_CECW-EG)



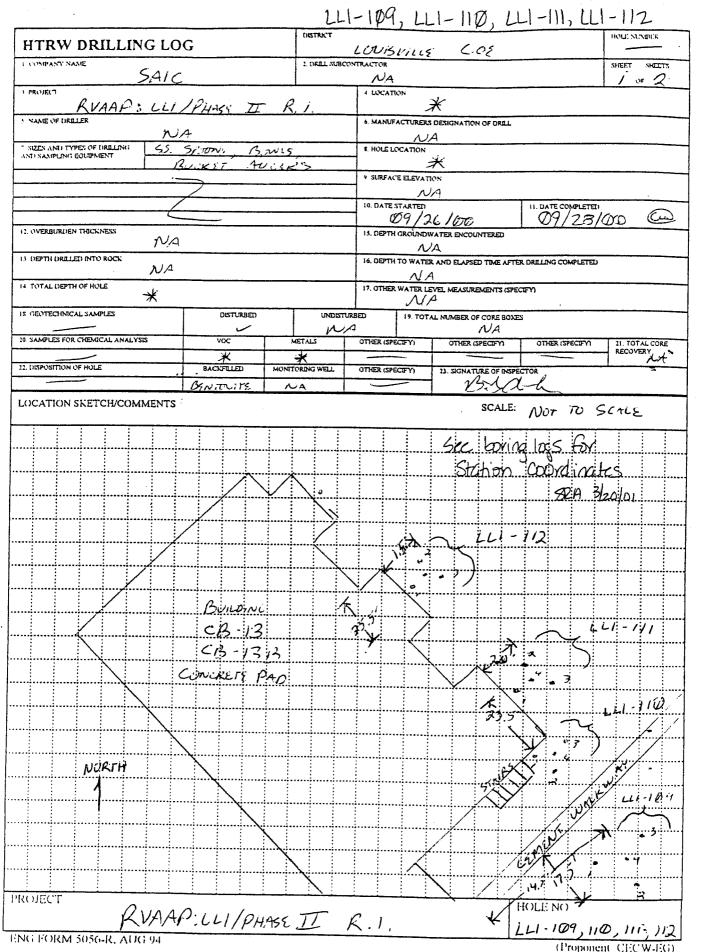
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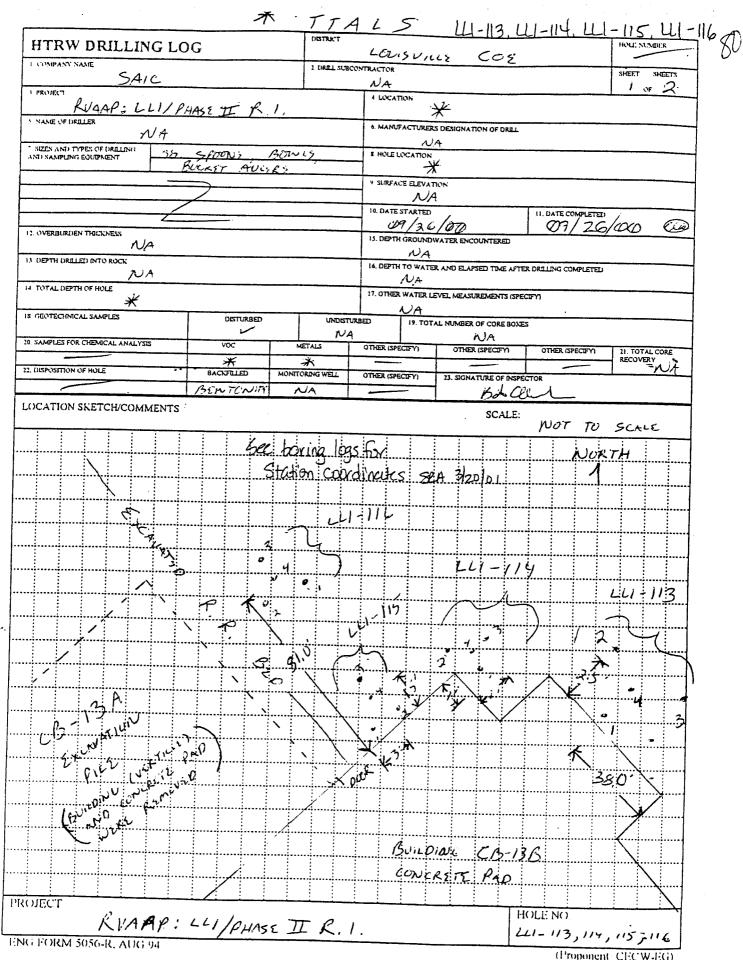


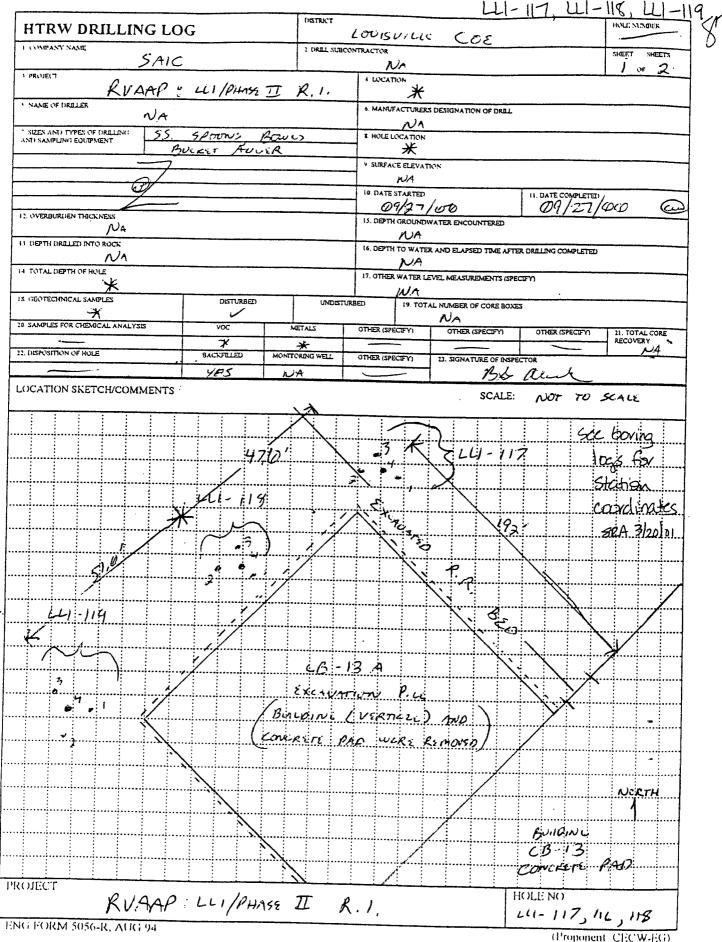
(Proponent CECW-EG)



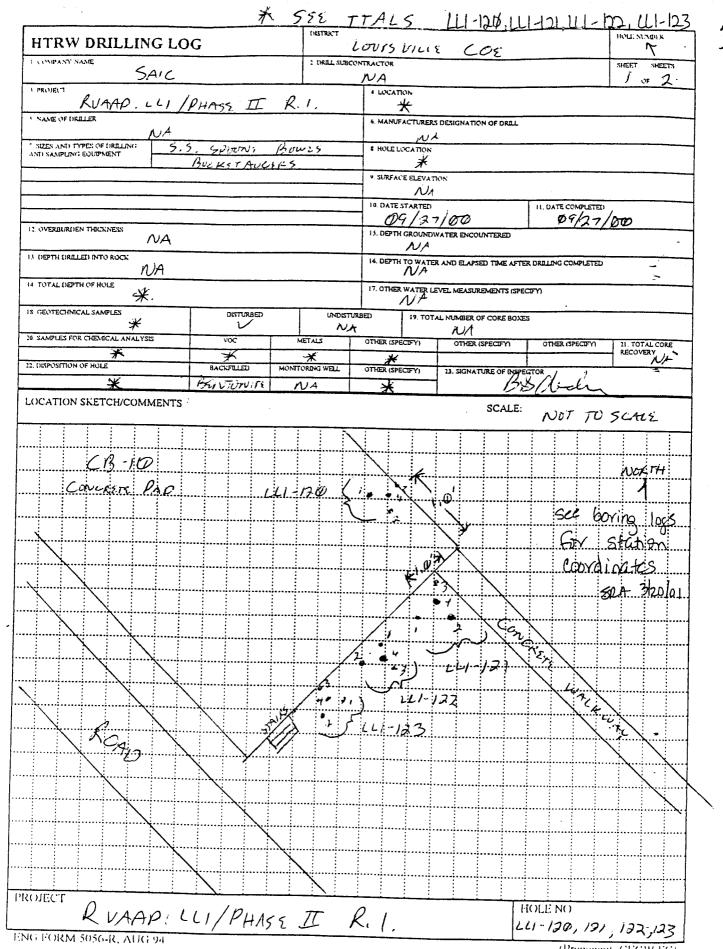
(Proponent CECW.EG)







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(Proponent CECW-EG)

TRW DRILLING LOG	and the second	LOUISVILLE	6 602		HOLE NUMBER		
S.41C	2. DELL SUBCO				SHEET SHEETS		
NE(7	<u> </u>	4 LOCATION			1 or 2		
KVAAP: LLI/PHASE II	K. 1.	<u> </u> ★					
		6. MANUFACTURER	S DESIGNATION OF DRLL				
AND TYPES OF ORLING 5.5. SPEDNE, D	1. HOLE LOCATION						
BUCKLI AVELA		9 SURFACE ELEVAT					
		*					
2. OVERBURDEN THICKNESS // A 3. DEPTH DRILLED INTO ROCK			alor	11. DATE COMPLETER	E COMPLETER		
			09/28/00 15. DEPTH GROUNDWATER ENCOUNTERED 14. DEPTH GROUNDWATER ENCOUNTERED				
			R AND ELAPSED TIME AFTER				
NA TOTAL DEPTH OF HOLE			A		-		
*			EVEL MEASUREMENTS (SPEC	ΈΥ)			
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PLES FOR CHEMICAL ANALYSIS VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE		
VOSITION OF HOLE BACKFILLED MON	X TORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPEC		RECOVERY		
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TION SKETCH/COMMENTS			SCALE:				
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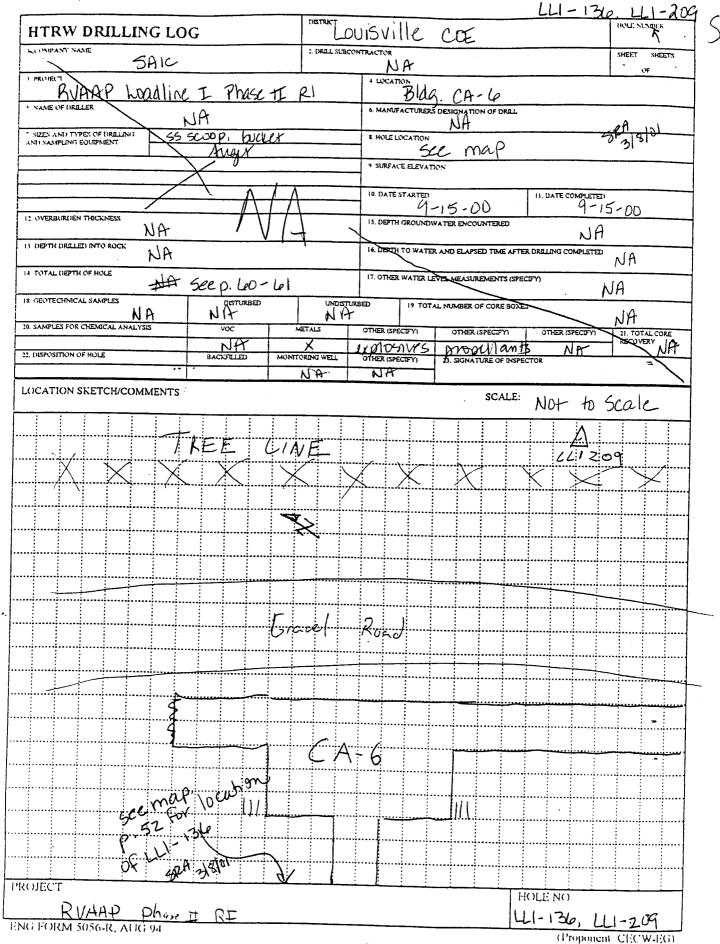
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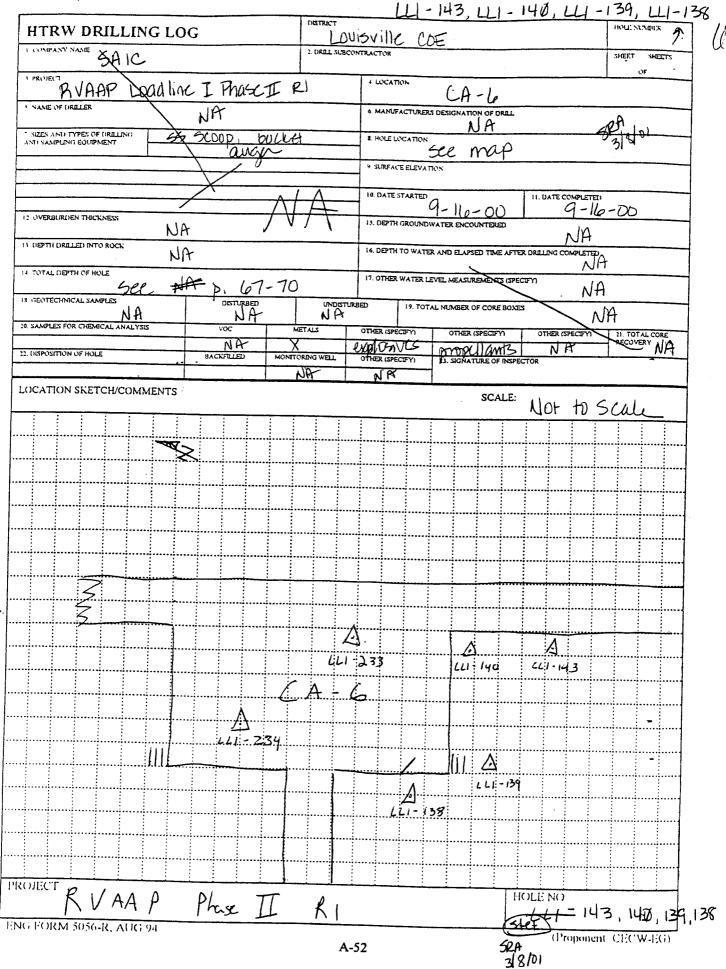


HTRW DRILLING LOG			LLI-141, 142, 137, 123 <				HOUEN	A.Stores .
SALC			2. DRALL SUBCONTRACTOR A				SHEET	SHEETS
RIVELT BUAAR LOOD		LTERI	+ LOCATION	da. CA-				<b>U</b> T
ANGE OF ORDLER	NA		6. MANUFACTURE	R5 DESIGNATION OF DR	"NA			
SIZES AND TYPES OF DRULING 55 SCOOP, WILL AT			S. HOLE LOCATION	•	1011		RAN	5/01
	( ungoo		9 SURFACE ELEVA	Map				
			10. DATE STARTED	2	11. DA	TE COMPLETE	¹⁾	
				9-15-00 13. DEPTH GROUNDWATER ENCOUNTERED NA VG. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED				
			6. DEPTH TO WAT					
TOTAL DEPTH OF HOLE			17. OTHER WATER	NEVEL MEASUREMENTS	(SPECIFY)	NA		·
EUTECHNICAL SAMPLES	DISTURBED	UNDISTL	RBED 19. TO	TAL NUMBER OF CORE B		NA		
AMPLES FOR CHEMICAL ANALYSIS	NA	METALS N	OTHER (SPECIFY)	OTHER (SPECIFY)		NA ER ISPECIFYI	21. TO	TAL CORE
AL AL	NA BACKFILLED MON	X ATTORING WELL	UNANGAUS	ES. SIGNATURE OF	FS	JP	RECOV	VERY NA
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CATION SKETCH/COMMENTS				SCAL	.e: N	ot to	Sca	le
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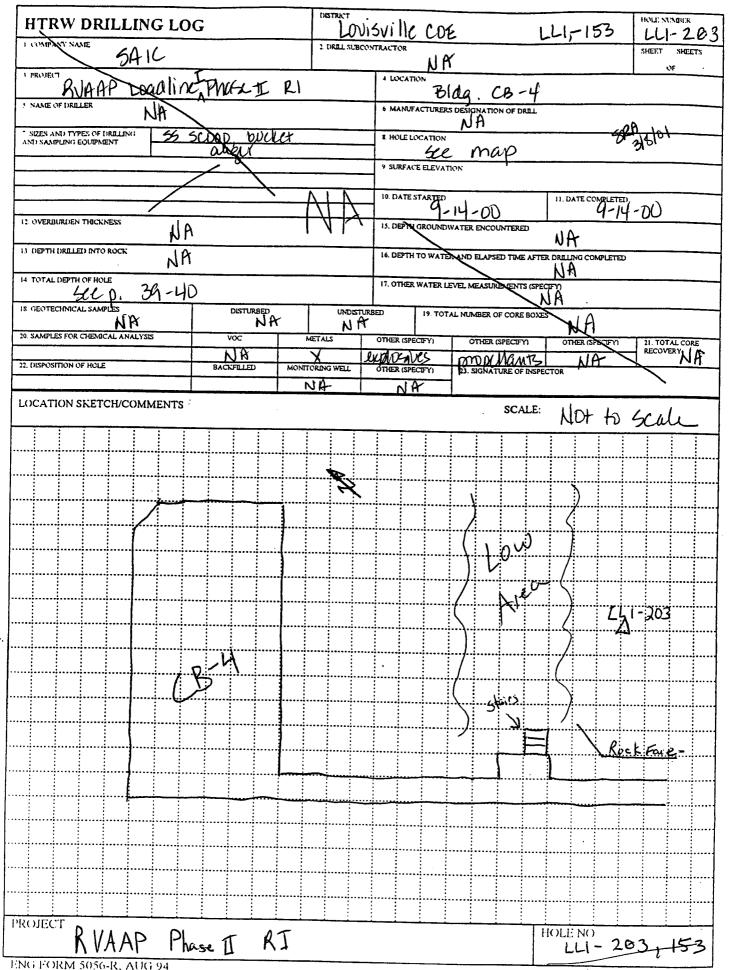
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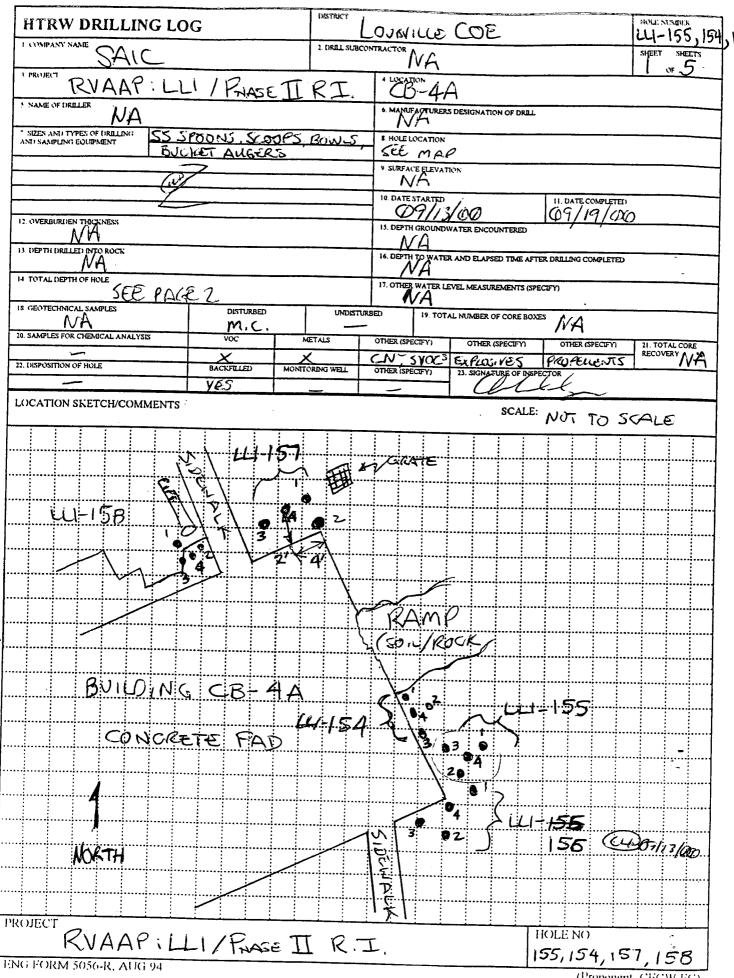
(Proponent CECW-EG)



·	L	L1-202	, LLI - 150, LLI - 151, LLI - 152	2 ~
HTRW DRILLING LO		LOUI	sville core	HOU: NUNDER
SAIC		2. DRILL SUBCON	TRACTOR	SHEET SHEETS
BNAAP LOADLI	NE I Phase I R	21	· LOCATION BIDA C.B4	
SAME OF DRILLER			6. MANUFACTURERS DESIGNATION OF DREL	
SIZES AND TYPES OF DRILLING	SCOOP. DUCKET		R. HOLE LOCATION SEC Map	5PA 318/01
			9 SURFACE ELEVATION	
/			10 DATE STARTED	1 2.
12. OVERBURDEN THICKNESS NA		A	IS. DEPTH GROUNDWATER ENCOUNTERED NA	4-00
13 DEPTH DRELLED INTO ROCK NA	/		16. DEPTH TO WATER AND ELAPSED TIME AFTER ORILLING COMPLETED	10
14 TOTAL DEPTH OF HOLE	32-35		17 OTHER WARMAN AND A PROVIDENT	JA
IS GEOTECHNICAL SAMPLES UL-202	DISTURBED	UNDISTURE	IN OTAL WATER LEVEL MEASUREMENTS (SPECIFY)	
20. SAMPLES FOR CHEMICAL ANALYSIS	VOC A			21. TOTAL CORE
22. DISPOSITION OF HOLE	BACNFILLED MONIT		VOR (MATS CKOLOGAVES SVOC	RECOVERY
LOCATION SKETCH/COMMENTS				
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			Walkuray	221-203 (p. 53
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			RR gruet	
ROJECT			HOLE NO . 1	
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			(Proponent	CECW EG

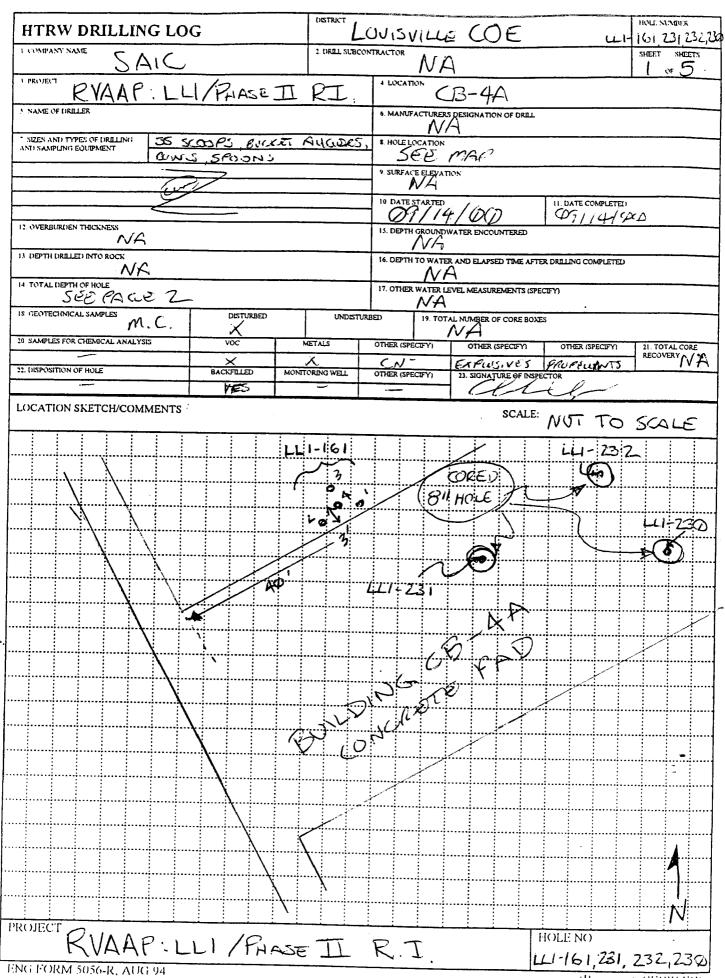


(Proponent CECW-EG)

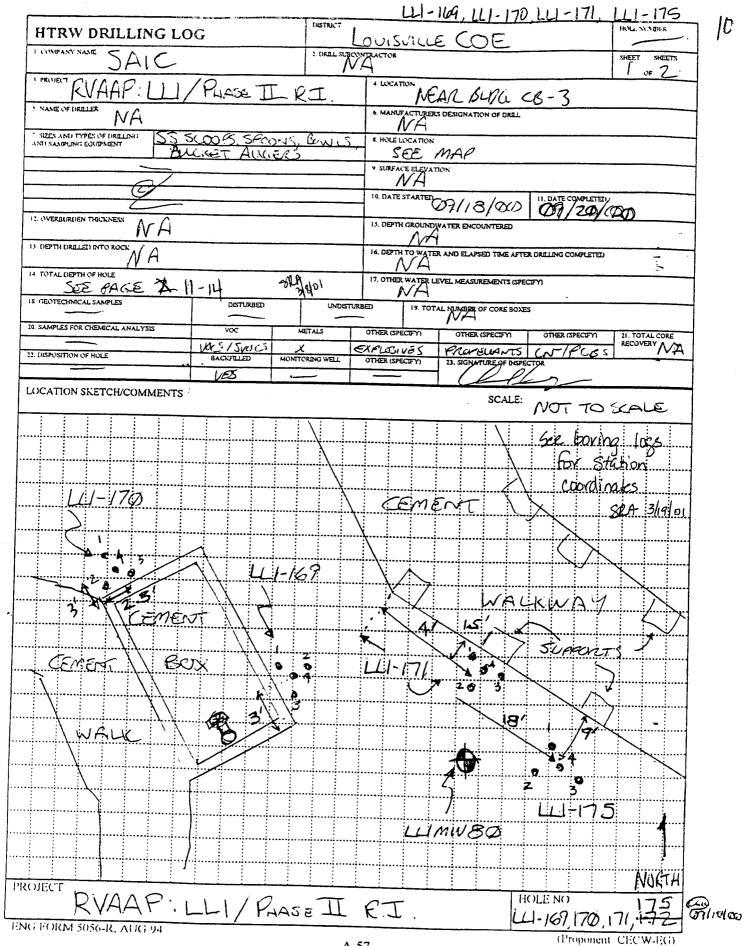


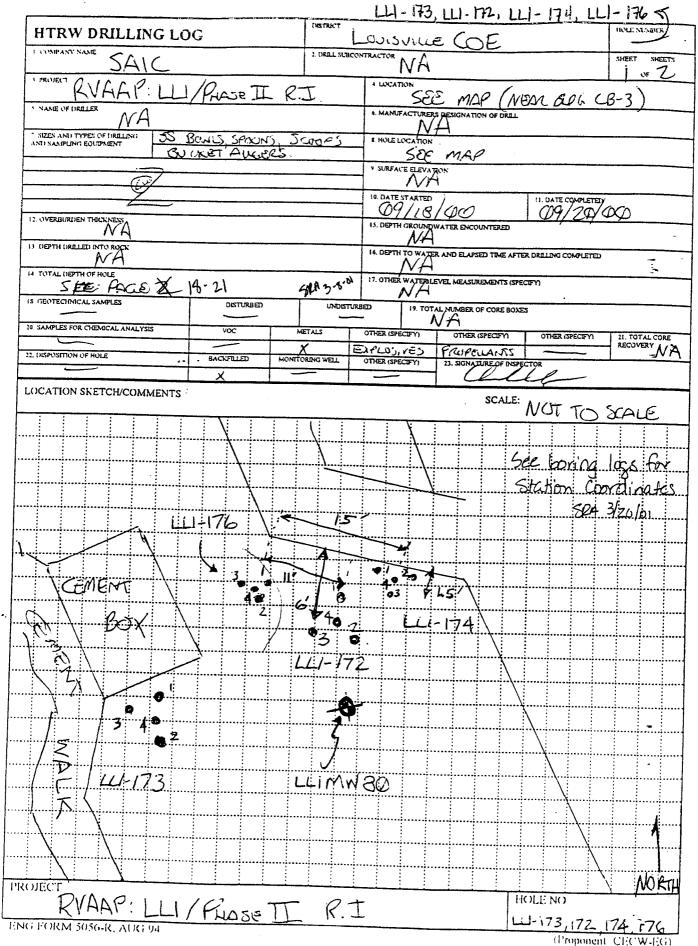
(Proponent CECW-EG)

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(Proponent: CECW-EG)



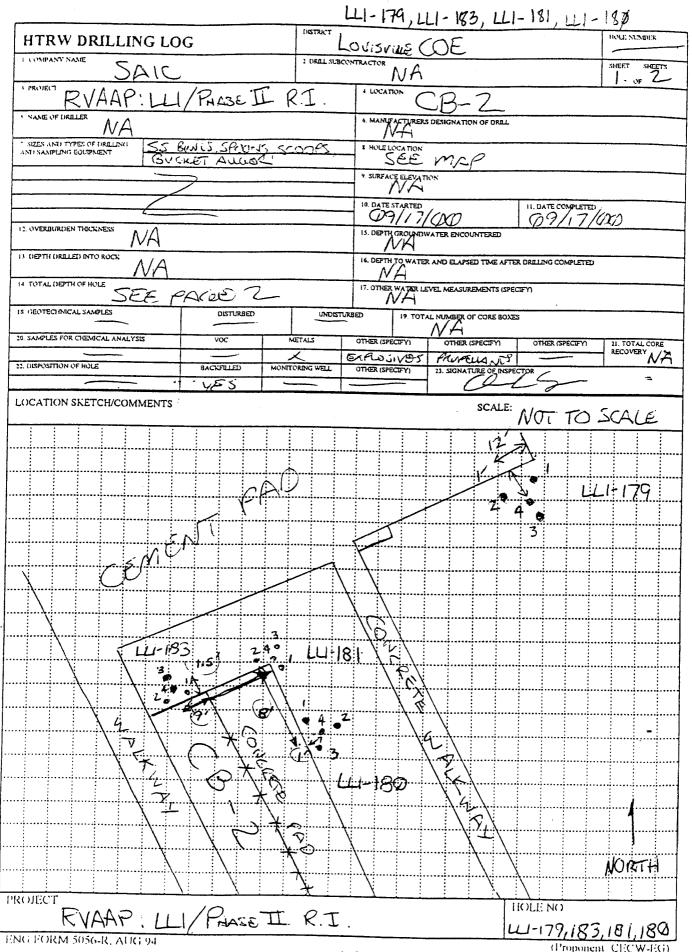


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HTRW DRILLING LOG		DISTRICT	SVILLE		<u>( Maria Licer)</u>	HOLE SUNDER	
SAIC_		2. OREL SUBCONTRACTOR				SHEET SHEETS	
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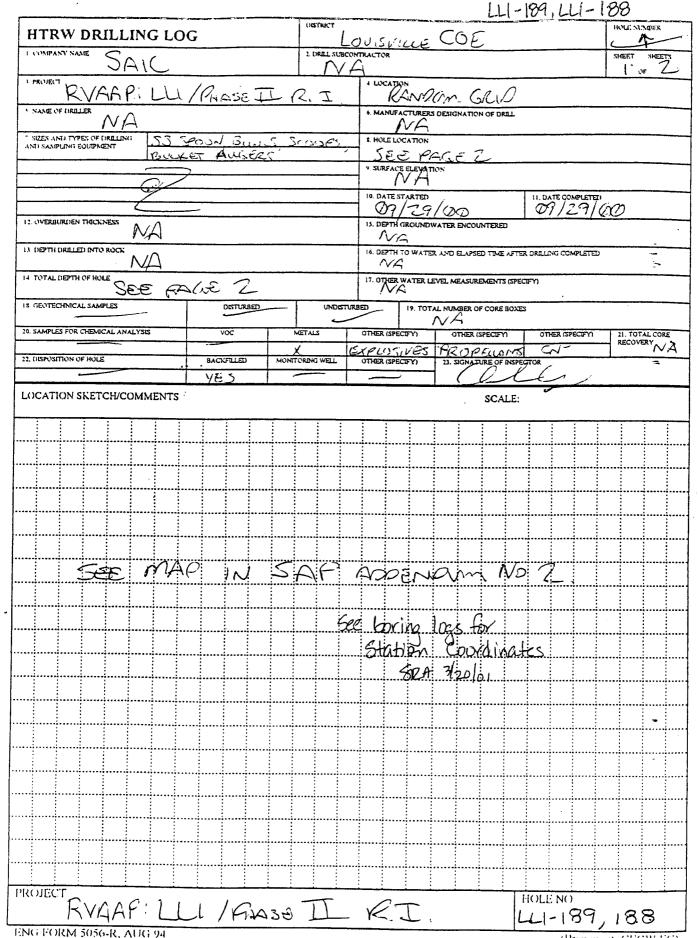
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(Proponent CECW-EG)



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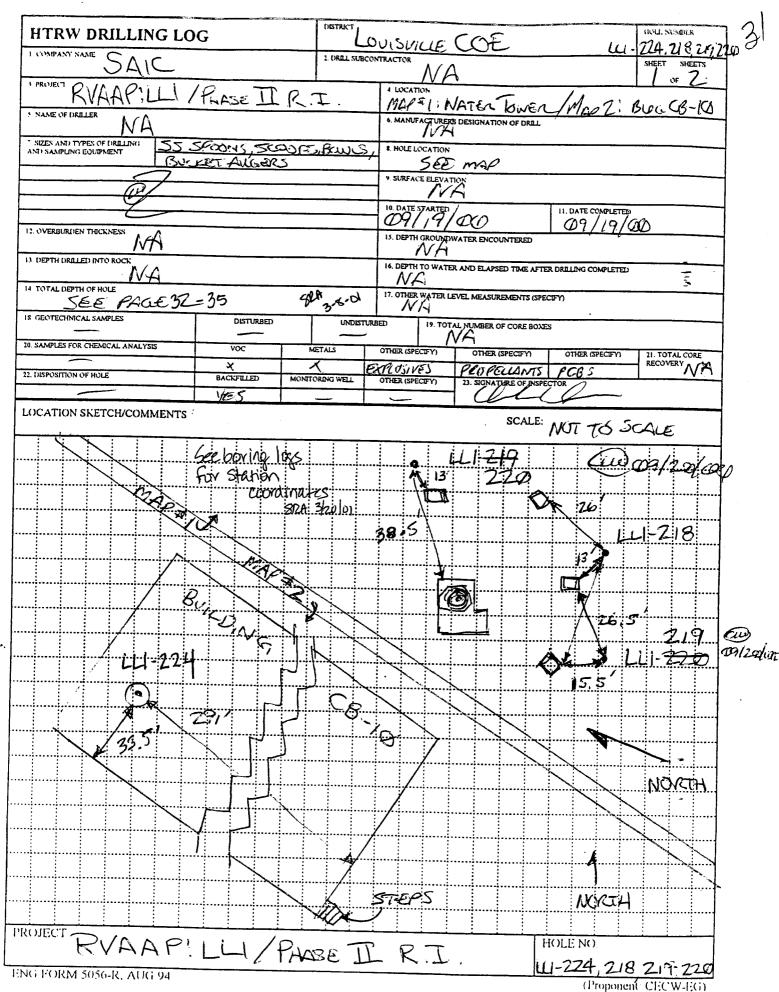
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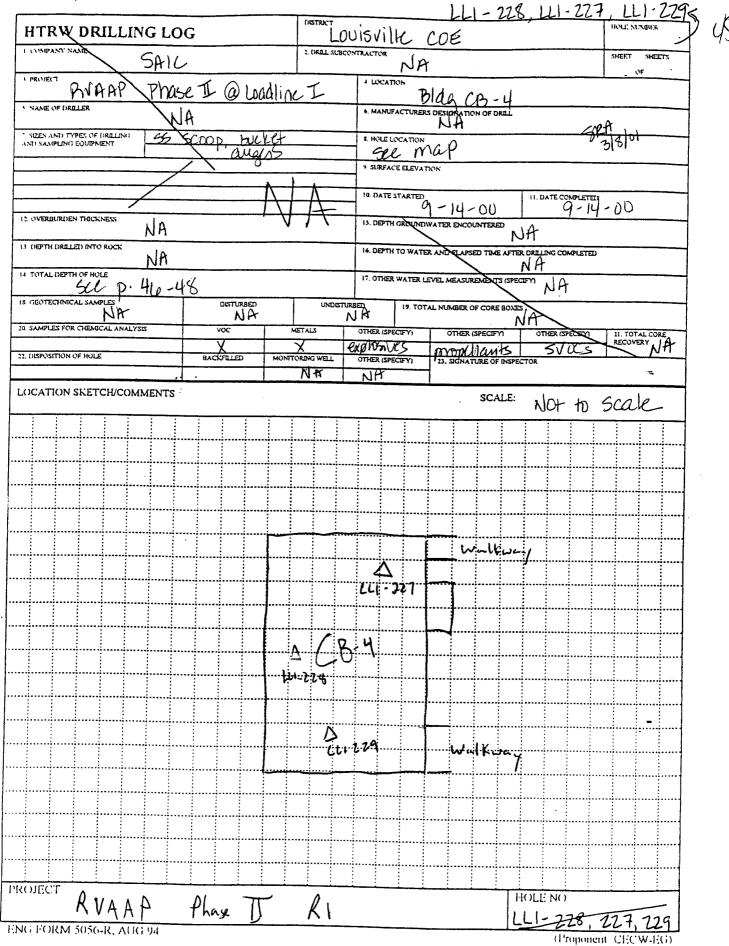
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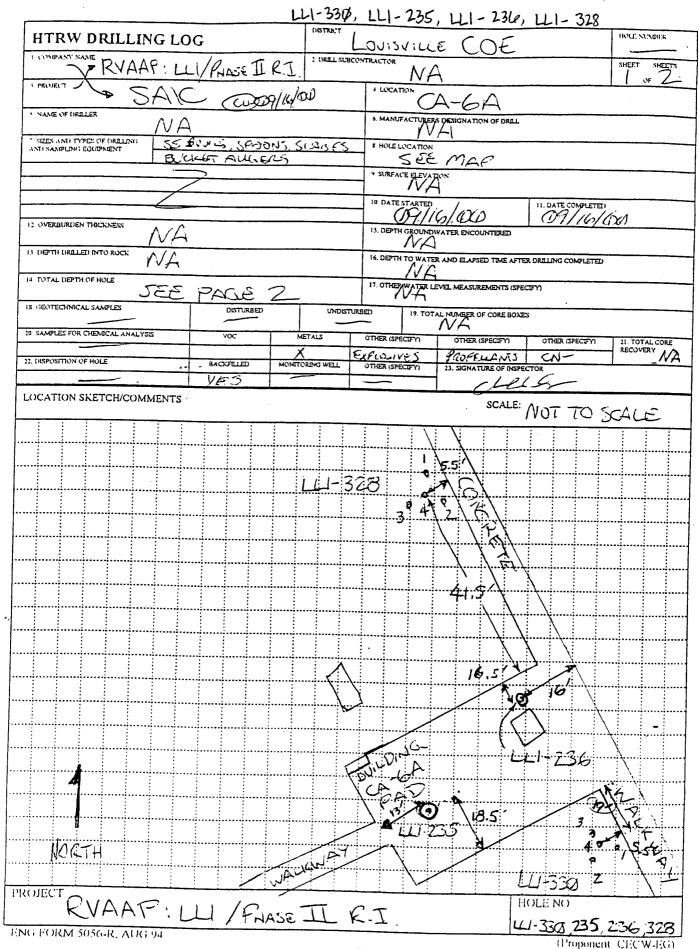


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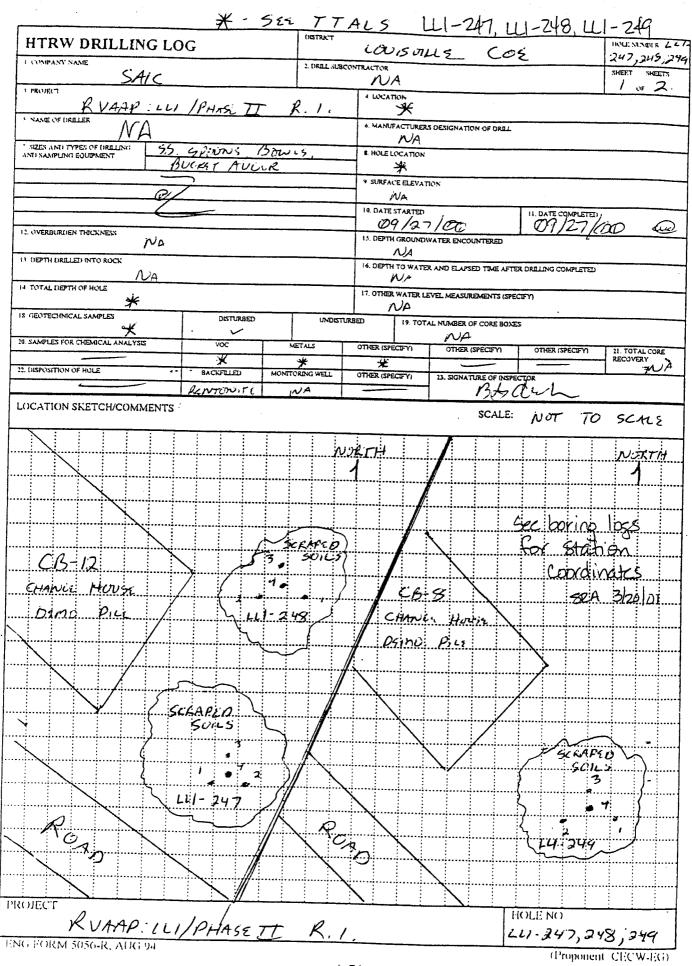


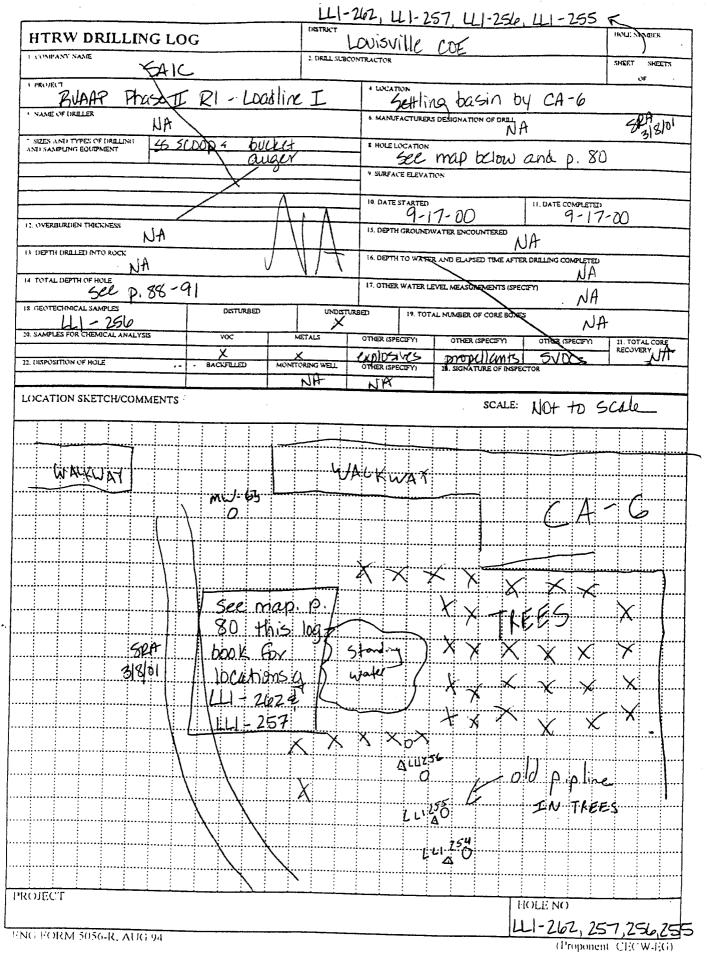
LLI-233, LLI-234, LLI-260, LLI-261 DISTRICT LOUISVILLE COE HTRW DRILLING LOG 2 DREL SUBCONTRACTOR SHEET SHEETS SAIL OF 4 LOCATION soldling I Phase-II P CA-6 and RVAAF Settling basin AND OF DRULET 4. MANUFACTURERS DESIGNATION OF DRLL NA Å Å * SIZEN AND TYPES OF ORLLING AND SAMPLING EQUIPMENT 470 SCOOP bucket 8. HOLE LOCATION Sec maps p. 66 and p.80 UR 9 SURFACE ELEVATION SPAD 10. DATE STARTED 9-16-00 11. DATE COMPLETED 9-10-00 12. OVERBURDEN THICKNESS NA 15. DEPTH GROUNDWATER ENCOUNTERED NA 16. DEPUTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED 13 DEPTH DRELED INTO ROCK NA 14 TOTAL DEPTH OF HOLE 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) - 11 74 GLL D. NA NR IS GEOTECHNICAL SAMPLES NR 19. TOTAL NUMBER OF CORE BOXES NA NA 20. SAMPLES FOR CHENOCAL ANALYSIS 21 TOTAL CORE VOC METALS OTHER (SPECIFY) OTHER (SPEC OTHER (SPECT PODULANTS | THER (SPECIFY NA BACKFULED SVOCS 22. DISPOSITION OF HOLE IONTORING WELL ALA **IR** LOCATION SKETCH/COMMENTS SCALE: NO Scale See map pg. 66 For LLI-233 LLI-234 See map pg. 80 For LLI-260 LLI - 234 26 PROJECT HOLE NO Phase II RI VAAP LLI-233,234;260,261

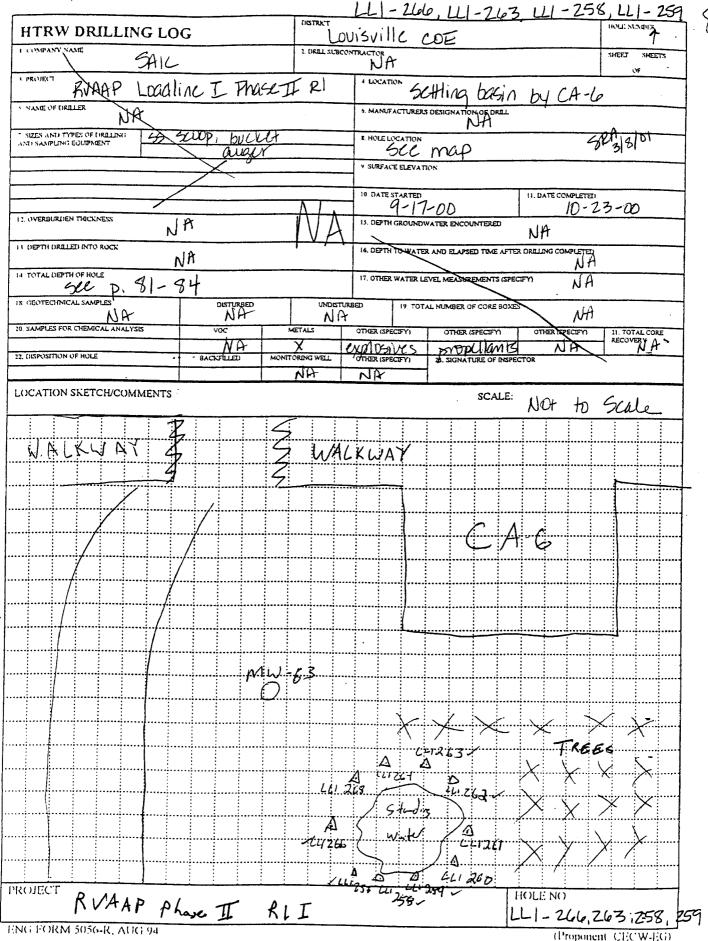
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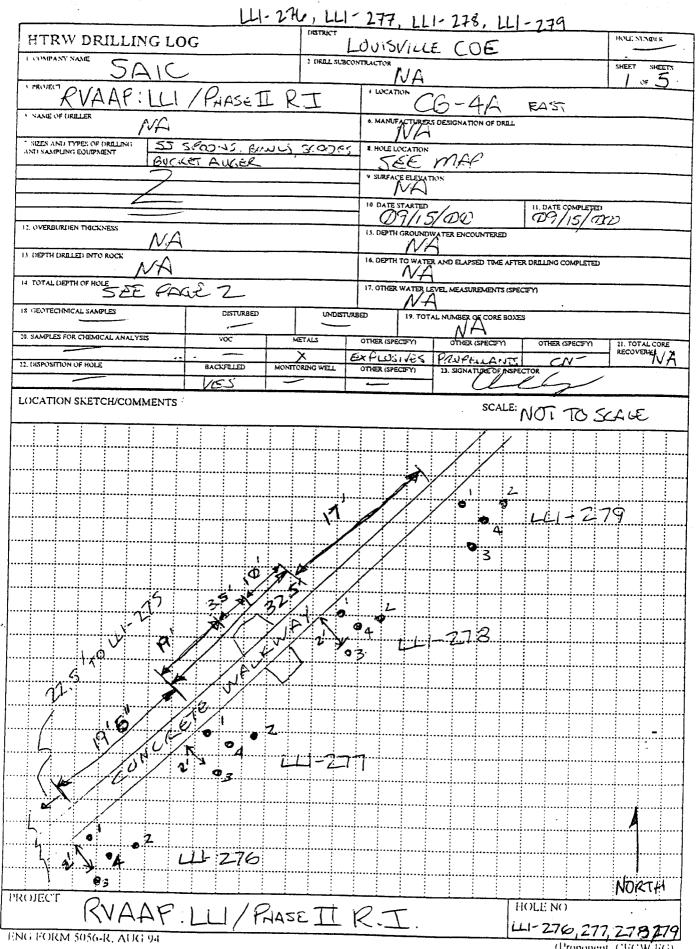
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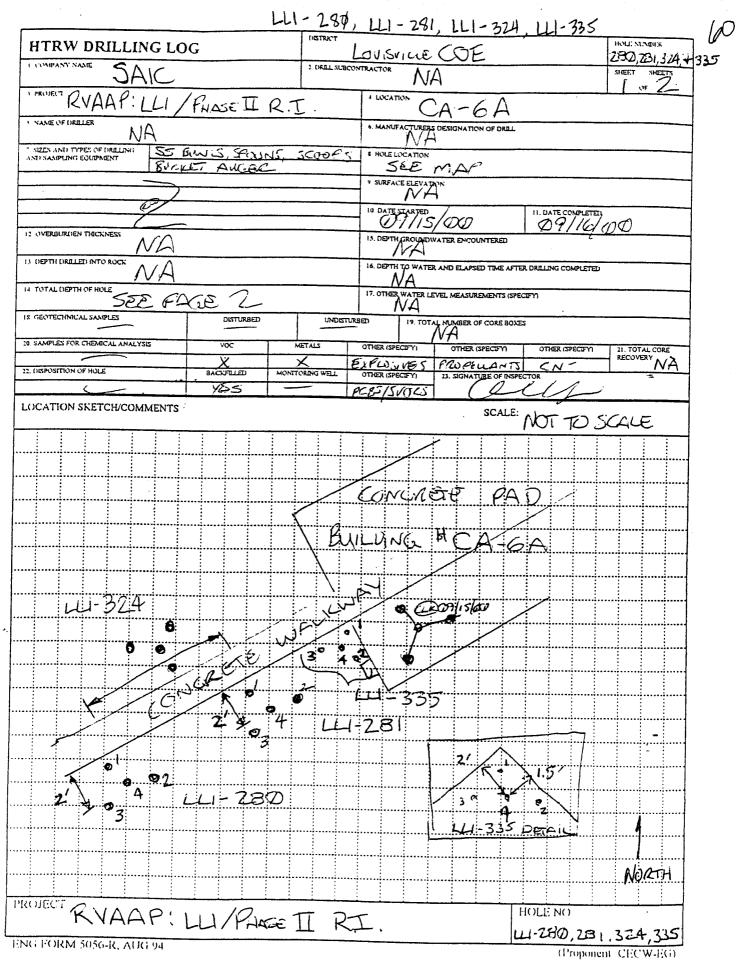
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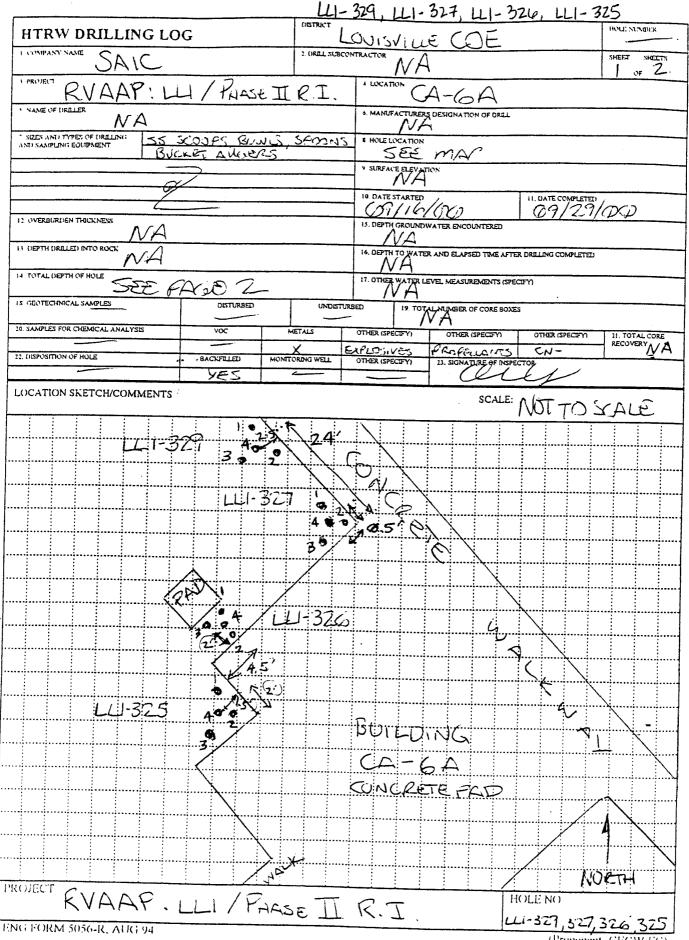
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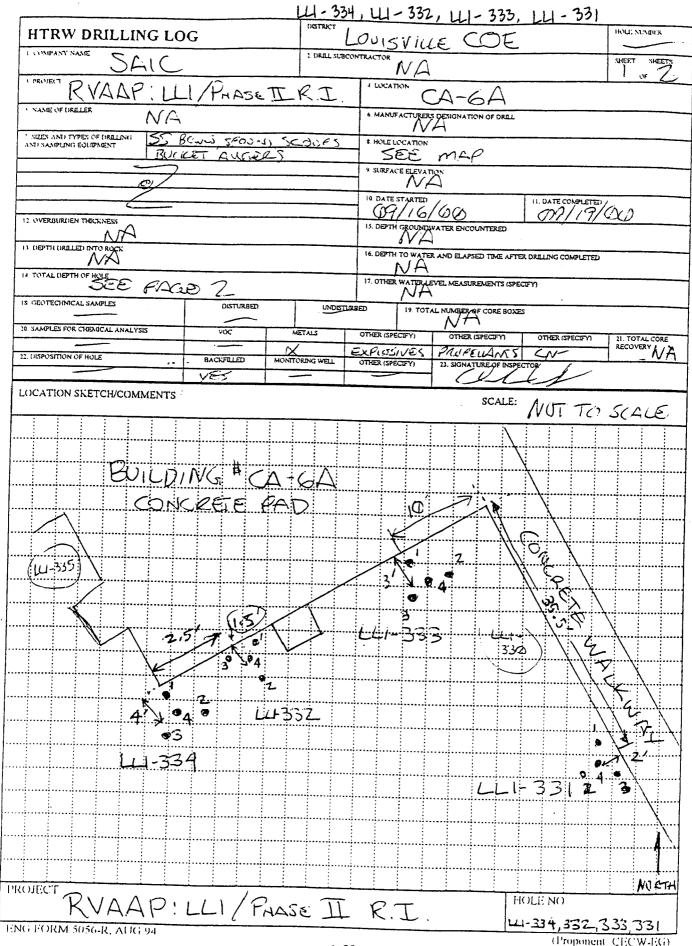
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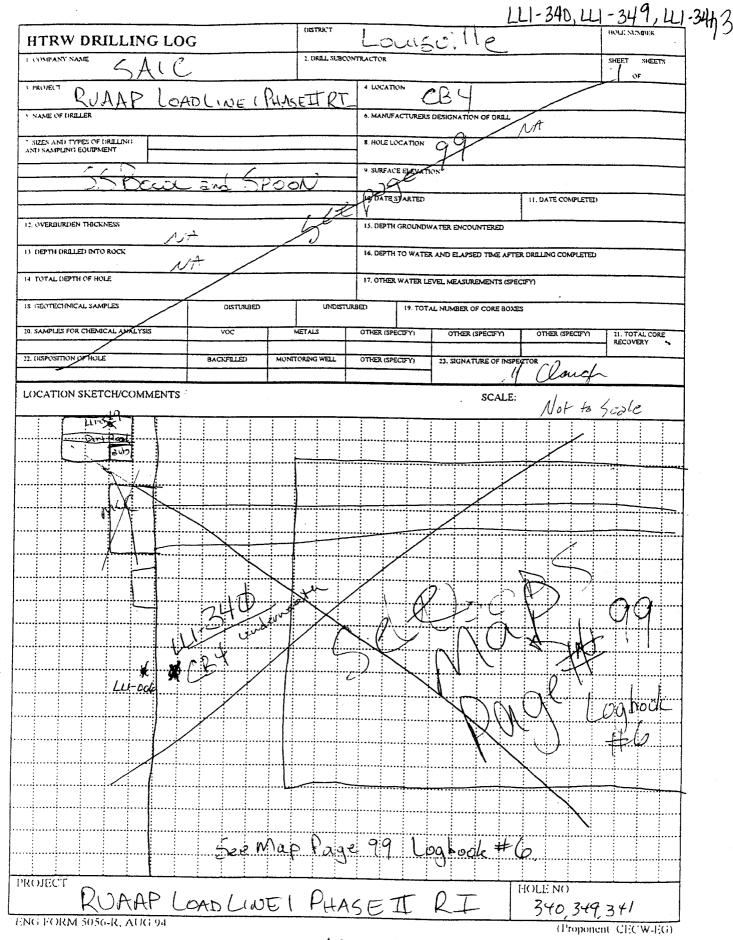
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IS GEOTECHNICAL SAMPLES	DISTURBED	אינדצוסאט	BED	19. TOTA	L NUMBER OF CO		VA	
20. SAMPLES FOR CHEMICAL ANALYSIS	VOC		OTHER (SPE		OTHER (SPEC		OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
22. DISPOSITION OF HOLE		TORING WELL	OTHER (SPE	CTFY)	23. SIGNATURE	OF INSPECTOR	<u> </u>	
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22. DISPOSITION O		- BACKFILLED MONT	ORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF	NSPECTOR	<u></u>							
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NAME OF DRILLER	I hase U	<u> </u>	6. MANUFACTURER	S DESIGNATION OF DRELL	
SIZEN AND TYPEN OF DRELLING			8 HOLE LOCATION	N.	· · · · · · · · · · · · · · · · · · ·
ND SAMPLING EOUPMENT	55 Bow 1 2	· Spoor		Near CB.	tA
			4. SURFACE ELEVAT	NA	
		<u> </u>	10. DATE STARTED	10/2/00 ".	DATE COMPLETED
OVERBURDEN THICKNESS	NA		15. DEPTH GROUND		
DEPTH DRILLED INTO ROCK			16. DEPTH TO WATE	$^{\prime} u$ and elapsed time after dri	LING COMPLETED
TOTAL DEPTH OF HOLE	NA		17. OTHER WATER L	EVEL MEASUREMENTS (SPECIFY)	NA
GEOTECHNICAL SAMPLES	ec Logs				VA
SAMPLES FOR CHEMICAL ANALYSIS	voc	METALS	OTHER (SPECIFY)	N.	
		MONITORING WELL	OTHER (SPECIFY)	FROP.	21. TOTAL CORE RECOVERY
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AND SAMPLING EQUIPMENT						
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12 OVERBURDEN THICKNESS				WATER ENCOUNTERED	1 <u>/-//</u>	
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553 TTALS UL-375, UL-376, UL-377, UL-378, STALS ≭ HTRW DRILLING LOG LOUISVILLE COL 1. COMPANY NAME 1 DRALL SUBCONTRACTOR SHEET SHEETS SAIC NA 7 OF 2 V PROVECT 4 LOCATION RVAAP: LLI/PHASE IT R. 1 NAME OF DRILLER 6. MANUFACTURERS DESIGNATION OF DRILL NĄ  $\mathcal{N}_{\mathcal{A}}$ " SIZES AND TYPES OF DRILLING AND SAAIPLING EQUIPMENT 5.5 spoors 1 HOLE LOCATION Donus BUCKUT AUGER *9. SURFACE ELEVATION  $\times$ 10. DATE STARTED 11. DATE COMPLETED 09/23/00 09/28/00 12. OVERBURDEN THICKNESS 15. DEPTH GROUNDWATER ENCOUNTERED ŇΑ NA 13 DEPTH ORELED INTO ROCK 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRELING COMPLETED NA NA -14 TOTAL DEPTH OF HOLE 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) ポ NA 15 GEOTECHNICAL SAMPLES DISTURBED UNDISTURBED 19 TOTAL NUMBER OF CORE BOXES NA  $\mathbf{x}$ NA 20. SAMPLES FOR CHEMICAL ANALYSIS METALS VOC OTHER (SPECIFY) OTHER (SPECIFY) 21. TOTAL CORE RECOVERY OTHER (SPECIFY) BACKFULE OTHER (SPECIFY) MONITORING WELL 22, DISPOSITION OF HOLE 23. SIGNATURE OF INSPE X RGA TONIR NA ж LOCATION SKETCH/COMMENTS SCALE: NOT TO SCALE See boring logs for NORTH Station Coordinates SCA 3/2010 24-37) LL1-376 3  $\mathbb{K}$ . 7 37.5 -6 A *t* 1 *1* - 378 r-WLR21 Ð PAD 70 z JAN. 0 K 8 کر ج 24 2 6-61-377 1:4 ¢ Ś PROJECT HOLE NO RURAP. LU/SAMSE I R. I. LLI- 375, 376, 378, 378 ENG FORM 5056-R, AUG 94

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⁽Proponent CECW-EG)

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12. OVERBURDEN THICKNESS						U. DE		20/DC		NTERED						
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22. DISPOSETION OF HOLE		BACKFE		MONTORING	WELL	OTHER	SPECIFY		NJYL SIGNAT	URE OF IN		N	ĸ			<u>.</u>
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(Proponent CECW-EG)

HTRW DRILLING LOG	<u> </u>	OBTRACT					u			<u>1-39</u> HOLE NENDRER <u>LL1-407</u> ,	
COMPANY NAME SIGIC		LOU 1. DREL SUBCO	NTRACTOR	<u>.r.</u>						<u>LLI - 407,</u> Sheet she	9/C
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RVAAP Phase T	TRE		LCB	<u>)- 9</u>					_		
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·			13. DEPTH O	ROUNDY	VATER ENCO	UNTERED					
DEPTH ORALED INTO ROCK			16. DEPTH T	O WATE	R AND ELAPS	ED TIME AF	TER DRILL	NG COMPLE	TED		
TOTAL DEPTH OF HOLE			17. OTHER W	ATER LE	VEL MEASU	UEMENTS (S	PECIFYI				
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(Proponent: CECW-EG)

ITRW DRILLING LOC	3	DISTRICT	USVILLE	<u>[1] - 389, []]</u>		HOLE NUMBER	
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D SAMPLING EOUPMENT			A HOLE LOCATE				
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			IN UNTESTAKT	71	U. DATE COMPLETED		
OVERBURDEN THICKNESS			13. DEPTH GROU	VOWATER ENCOUNTERED			
DEPTH DRILLED INTO ROCK			16. DEPTH TO WA	TER AND ELAPSED TIME AF	TER ORILLING COMPLETED		
TOTAL DEPTH OF HOLE			17. OTHER WATE	R LEVEL MEASUREMENTS (SP	PECTEV		
TEOTECHNICAL SAMPLES	DISTURBED				•		
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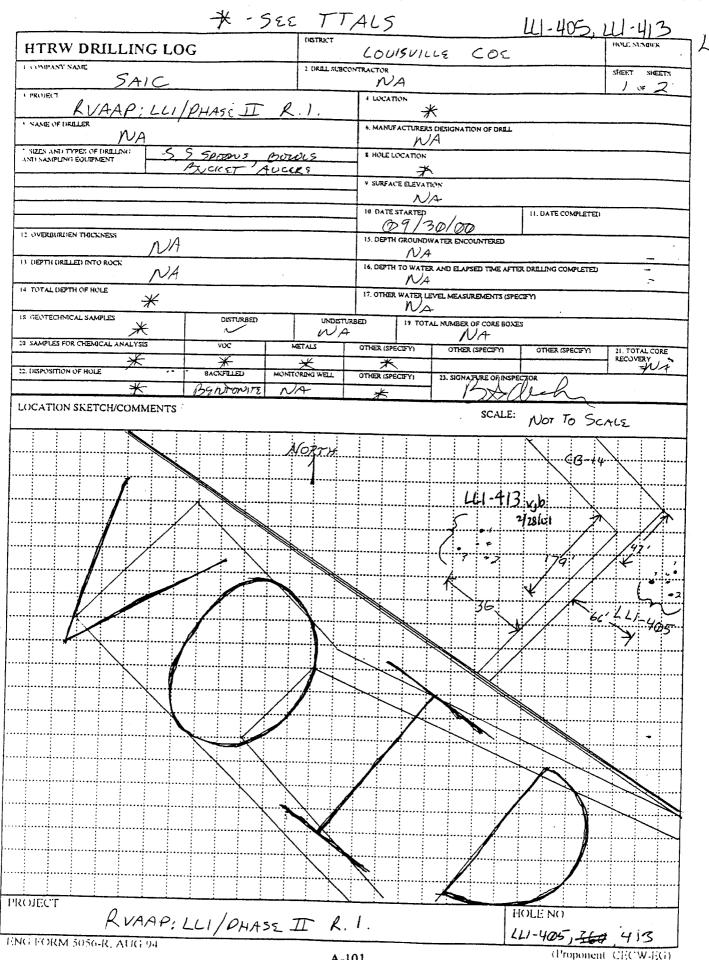
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(Proponent CECW-EG)

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NE OF DRILLER A : A			6. MANUFACTURER		L	
IVA ES AND TYPES OF DRILING 5.5. SAMPLING EQUIPMENT 5.5.	Spierry, Bin	\$ .	R. HOLE LOCATION			
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		· · · · · · · · · · · · · · · · · · ·	10. DATE STARTED	slow	II. DATE COMPLETED	Ino
ERBURDEN THICKNESS				VATER ENCOUNTERED		
PTH URBLED INTO ROCK			16. DEPTH TO WATE	AND ELAPSED TIME AF	TER DRELING COMPLETED	
TAL DEPTH OF HOLE			17. OTHER WATER LL	VEL MEASUREMENTS (ST	PECIFY)	
OTECHNICAL SAMPLES	DISTURBED	UNDISTURS	Y	MA NUMBER OF CORE BO		
MPLES FOR CHEMICAL ANALYSIS	VOC M			NA		
	*	×	*	OTHER (SPECIFY)	OTHER (SPECIFY)	11. TOTAL CORE RECOVERY
*		RENG WELL	OTHER (SPECIFY)	23. SIGNATUREOF INS	PECTOR	
ATION SKETCH/COMMENTS				SCALE		
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<u>507</u>	oranon					
COY	dinates Sea 3/20/01					
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LLI-407, LLI-406, LLI-408 DISTRICT Louisville COE HTRW DRILLING LOG L COMPANY NAME 2. DRILL SUBCONTRACTOR SHEET SHEETS 1 NA QF RUAAI 4. LOCATION Phase IF RI NAME OF DRILLER 6. MANUFACTURERS DESIGNATION OF DRLL NA NA SIZES AND TYPES OF DRILLING 8. HOLE LOCATION 44 ANTI SAMPLING EQUIPMENT ger 9. SURFACE ELEVATION 10. DATE STARTED 11. DATE COMPLETED 10 00 (0/1/00 12 OVERBURDEN THICKNESS 15. DEPTH GROUNDWATER ENCOUNTERED NA NA 13 DEPTH DRILLED INTO ROCK 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED NA NA 14 TOTAL DEPTH OF HOLE 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) NA IS GEOTECHNICAL SAMPLES DISTURBED UNDISTURBED 19. TOTAL NUMBER OF CORE BOXES NA 10. SAMPLES FOR CHEMICAL ANALYSIS VOC METALS OTHER (SPECT OTHER (SPECIFY) OTHER (SPECIFY) 21. TOTAL CORE RECOVERY OTHER (SPECIFY) MONITORING WEL PROP 22. DISPOSITION OF HOLE BACKFILLED 23. SIGNATURE OF WRentonte LOCATION SKETCH/COMMENTS SCALE: toscale 21 3 Cere 1 14-408 , B B 141-404 Ŕ ·LA 10 故 PROJECT HOLE NO PLLI Phase IF RI LLI-406, 407, 408 ENG FORM 5056-R (Proponent CECW-EG)

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11-415,11-414 OISTRACT INC. NUMBER HTRW DRILLING LOG OULSUL L COMPANY NAME 2. DRILL SUBCONTRACTOR SHEET SHEETS NA 2 ĥ OF I PROJECT 4. LOCATION inel Phase I RI -10 padl SAME OF DRILLER 6. MANUFACTURERS DESIGNATION OF DRLL NA NA * SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT 8. HOLE LOCATION Vear CB-10 SURFACE ELEVATION Hand torger  $\nu A$ 10. DATE STARTED 11. DATE COMPLETED 50 )*00** 10/2/00 a and ን 00 12. OVERBURDEN THICKNESS 15. DEPTH GROUNDWATER ENCOUNTERED NA  $\mathcal{N}\mathcal{A}$ 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED 13 DEPTH ORILLED INTO ROCK NA 14 TOTAL DEPTH OF HOLE 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY) 6095 NA See 18 GEOTECHINICAL SAMPLES DISTURBED UNDISTURBED 19. TOTAL NUMBER OF CORE BOXES 20. SAMPLES FOR CHEMICAL ANALYSIS METALS OTHER (SPECIFY) VOC OTHER (SPECIFY) OTHER (SPECTEY) 21. TOTAL CORE RECOVERY CALL OTHER (SPECIFY PROF 22. DISPOSITION OF HOLE BACKFILLED MONTORING WELL 23. SIG ATURE OF Benton R ŝ LOCATION SKETCH/COMMENTS SCALE: Scale 1)0+ 40 LUL 32 KLLI-132 ,26 Ø PROJECT HOLE NO PLOAD LINE | PHASE IF RI 121-415 414 ENG FORM 5056-R, AUG 94 (Proponent CECW-EG)

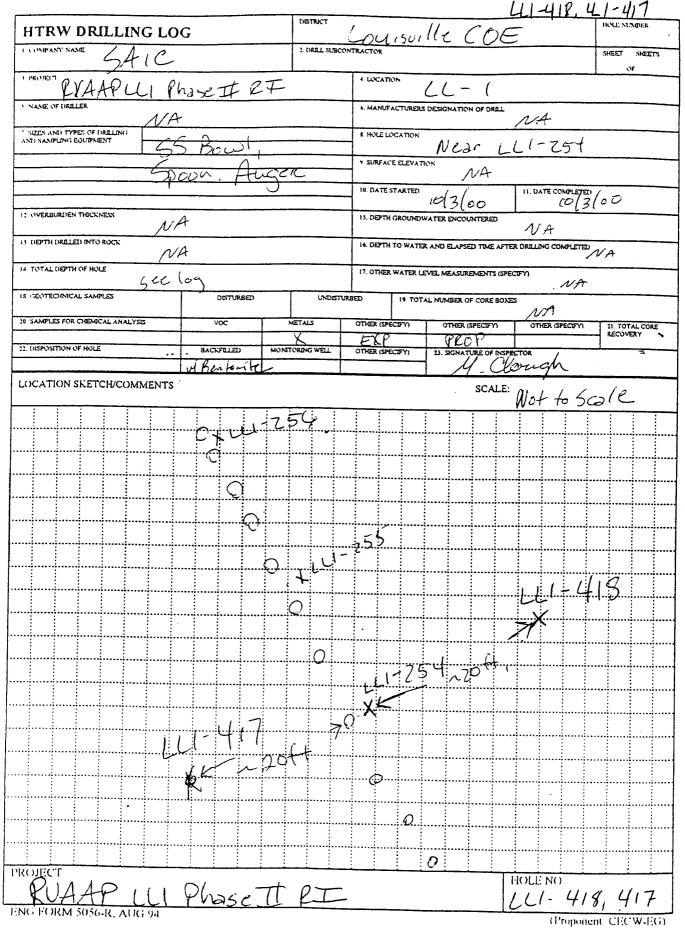
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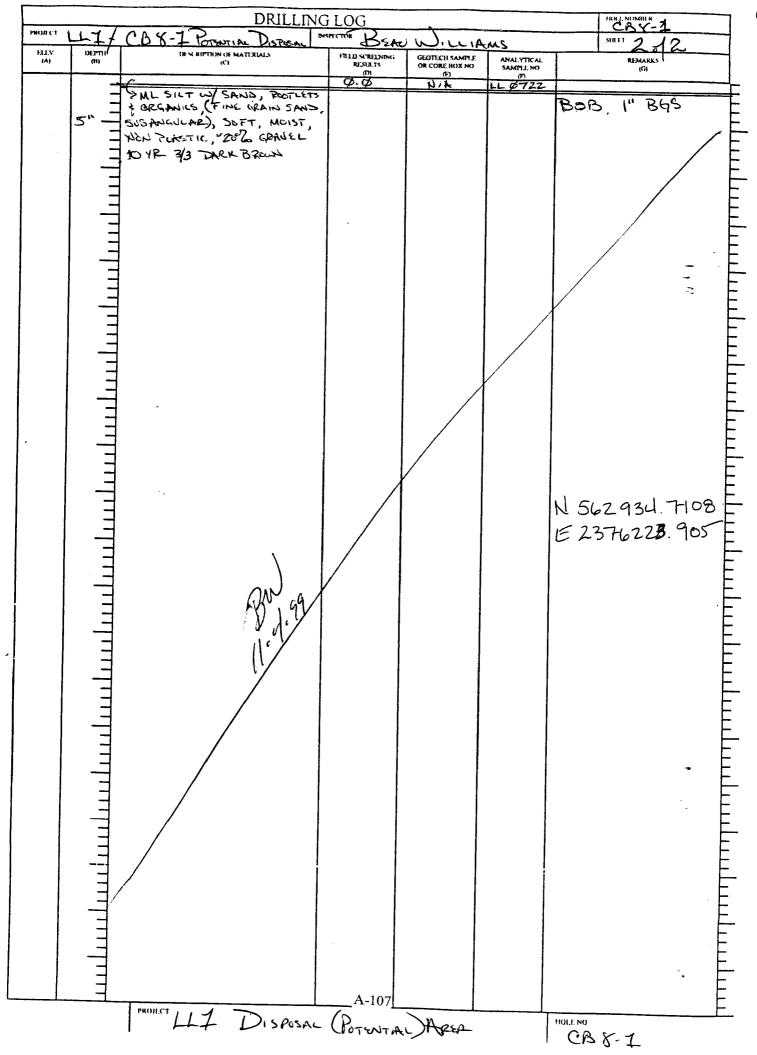


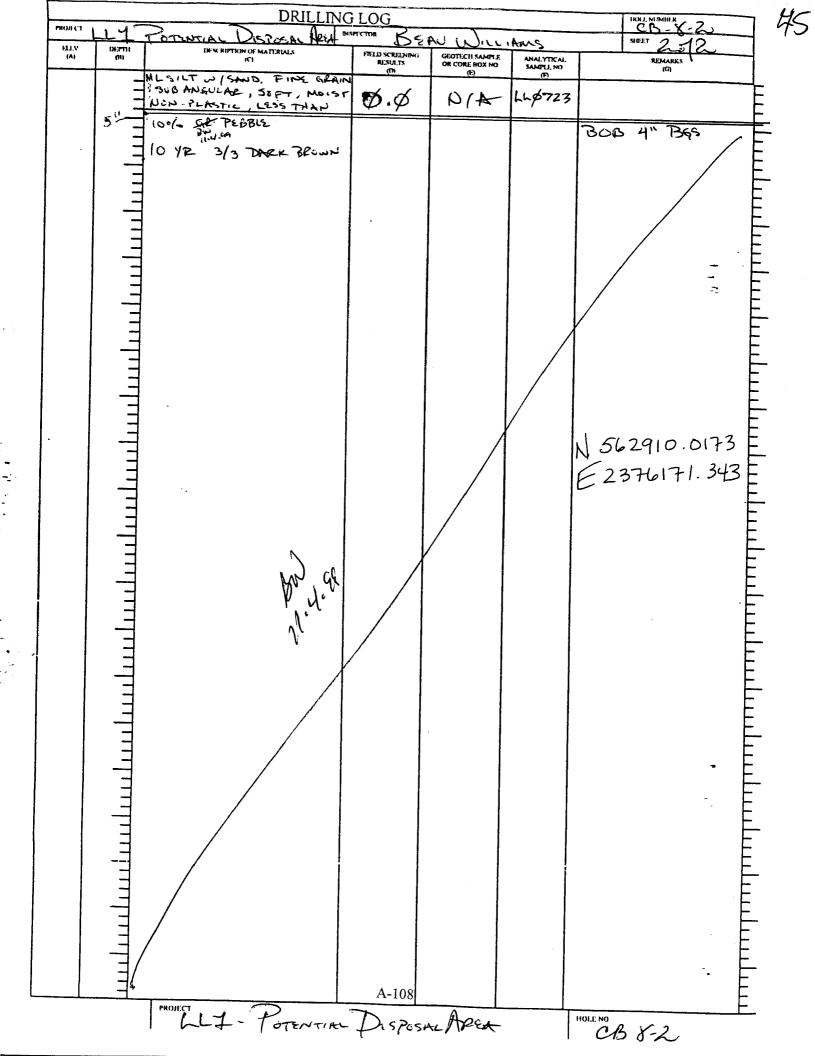
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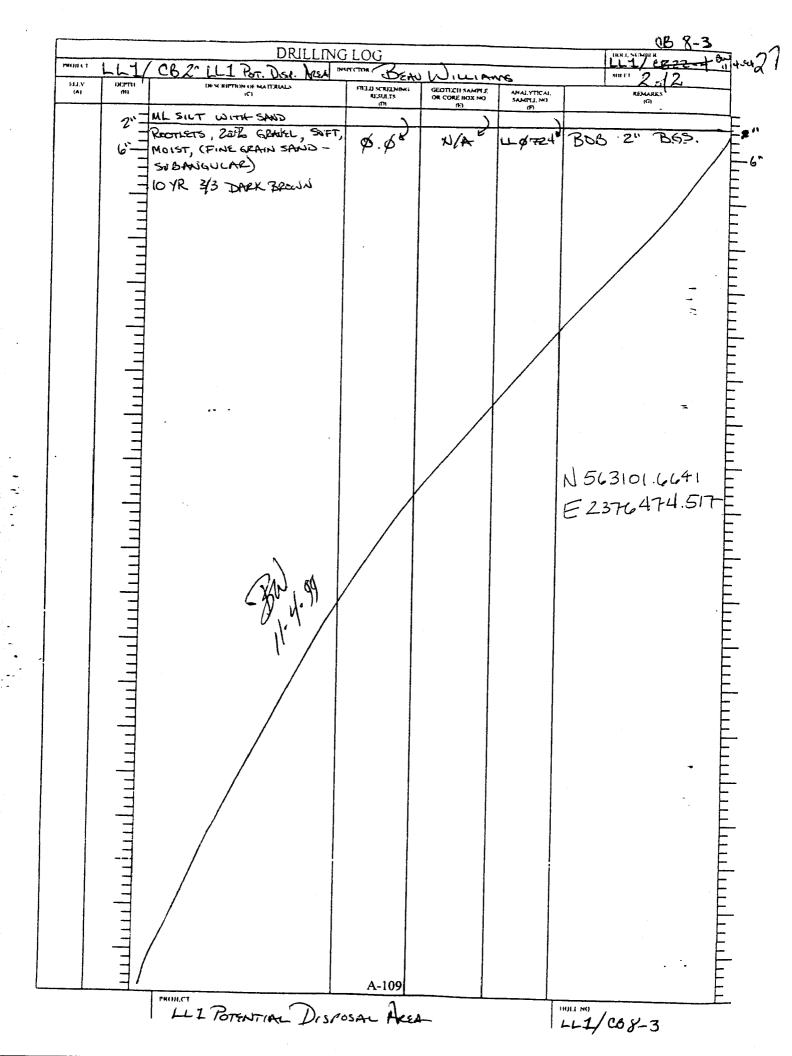
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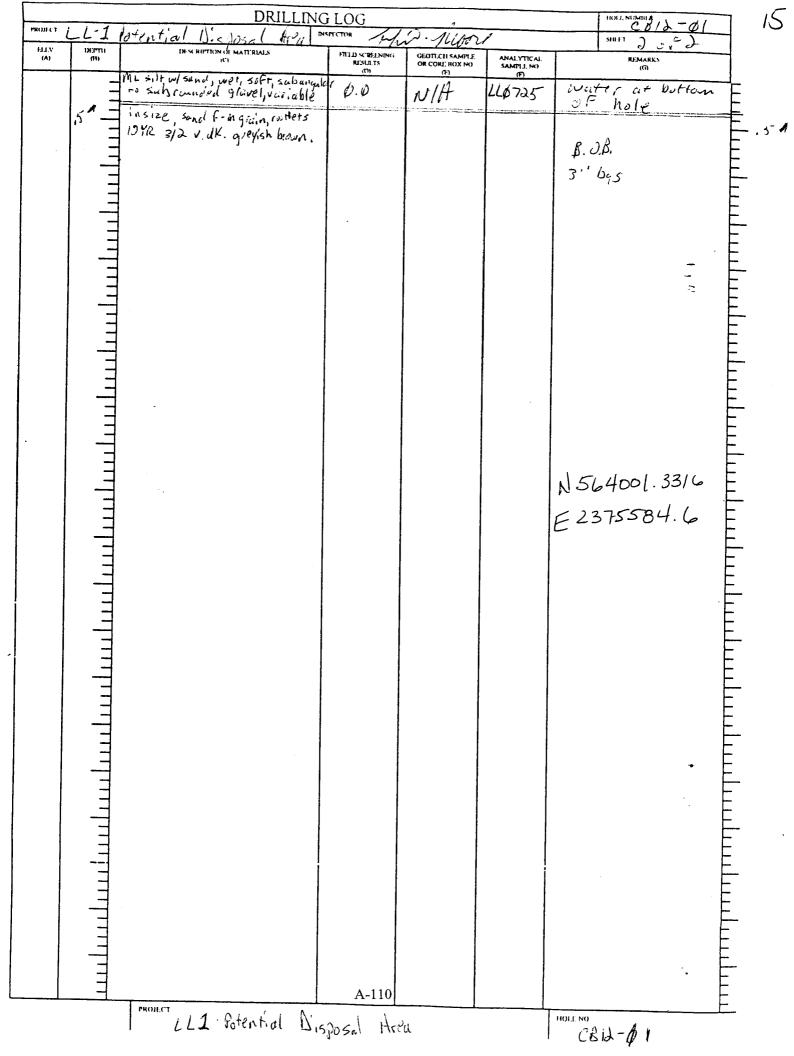
## HTRW Drilling Log – Logs

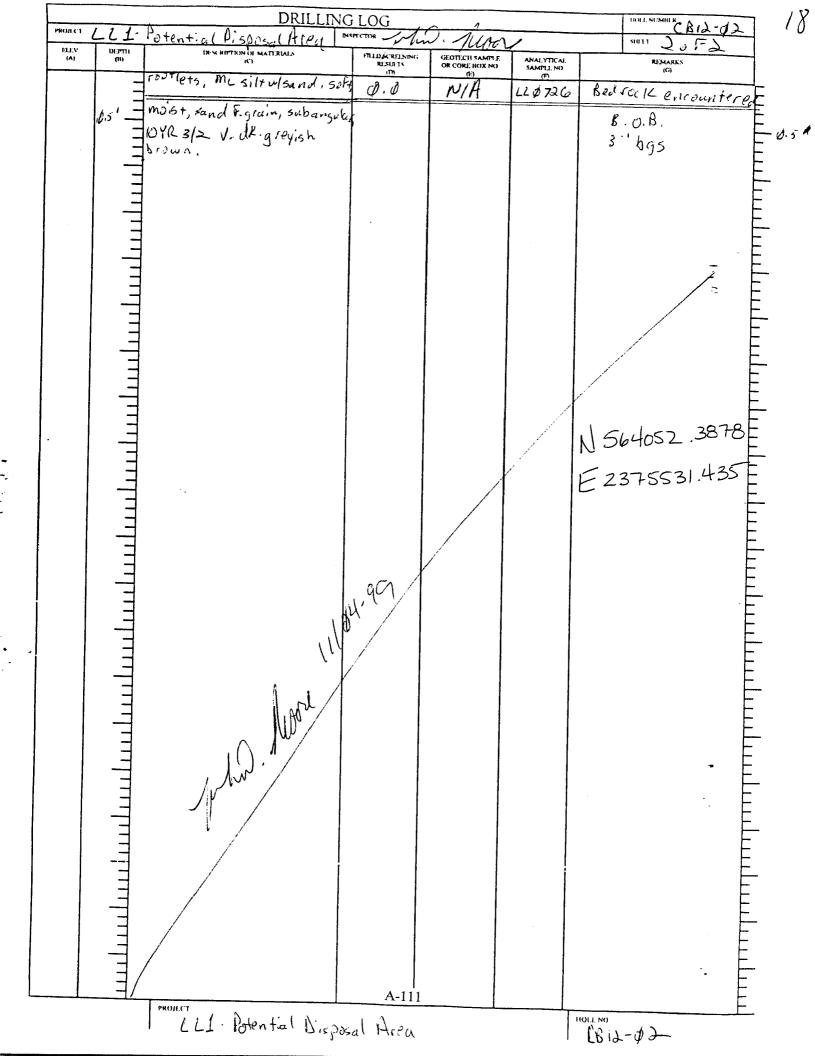
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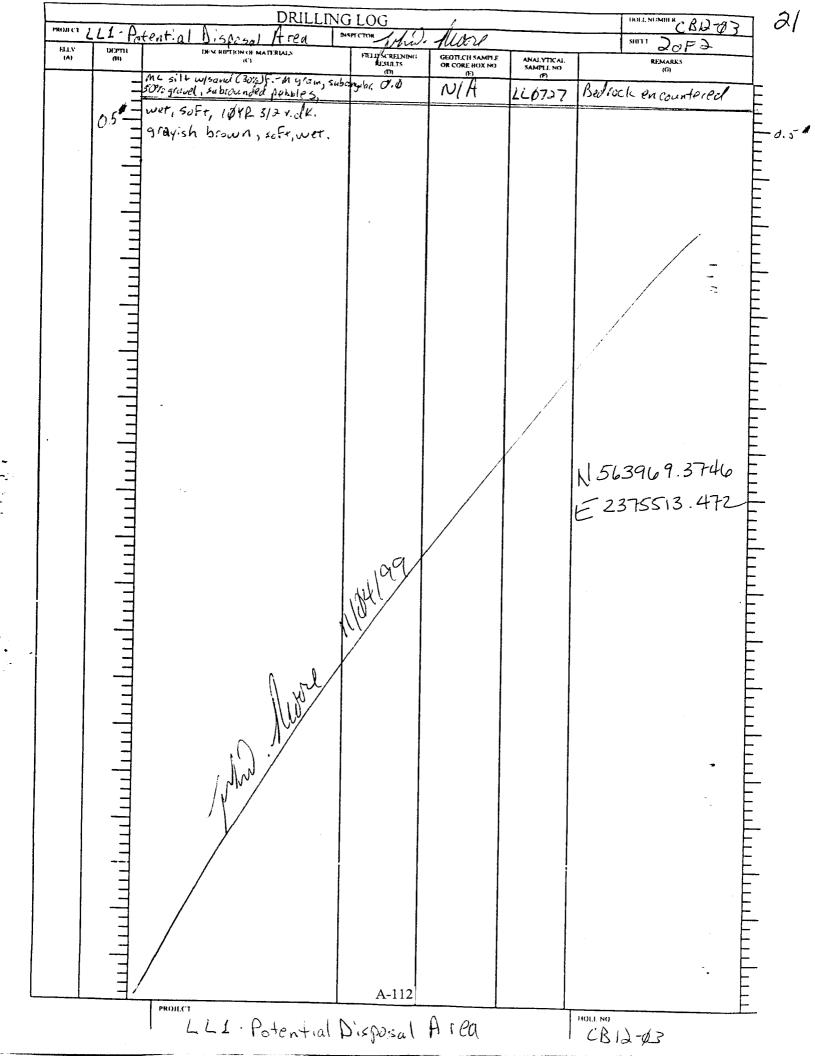






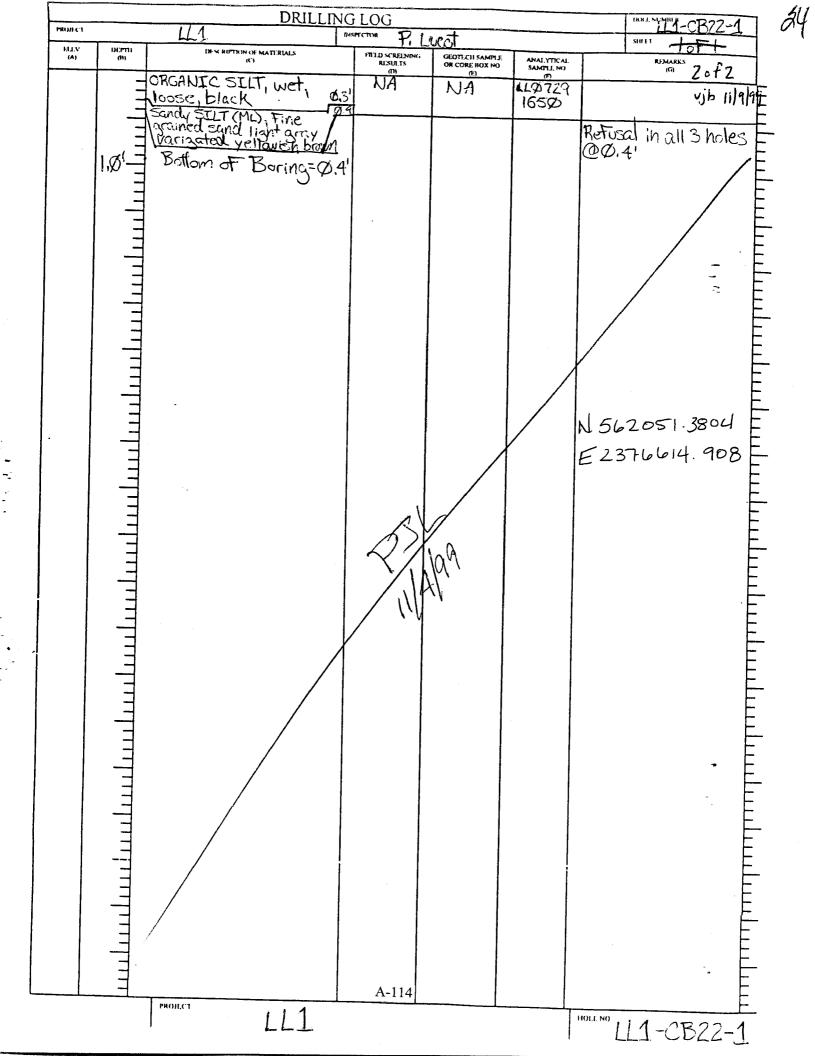


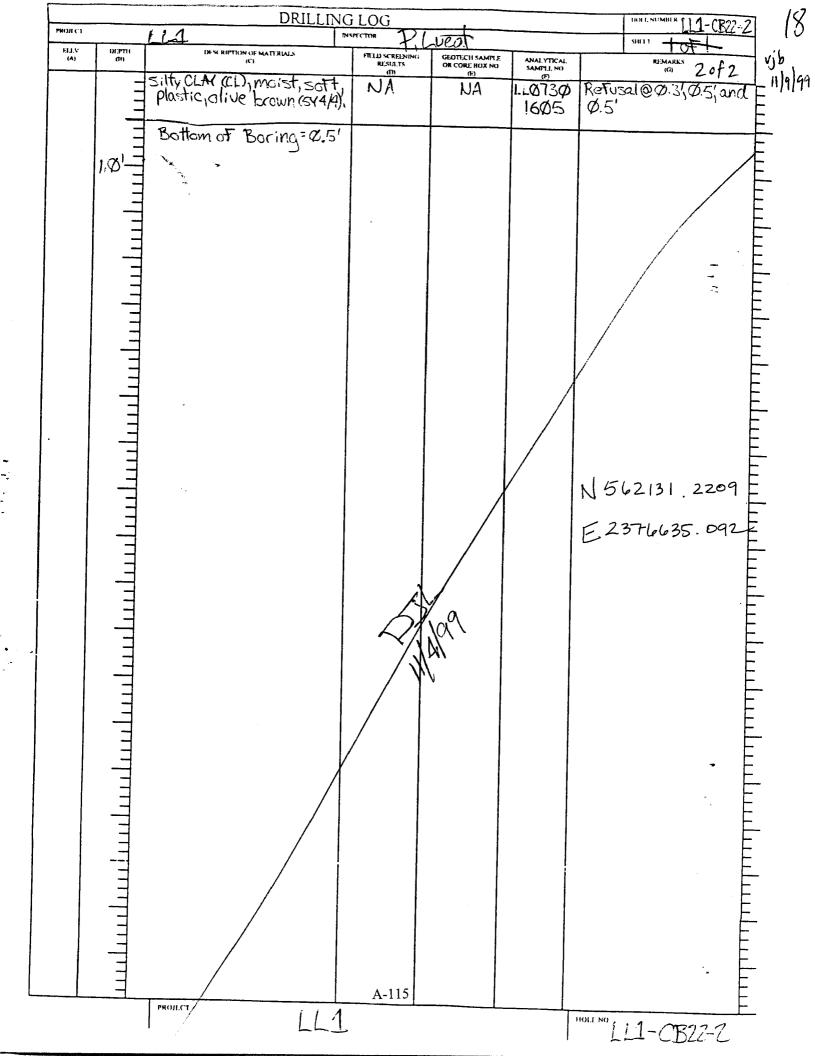


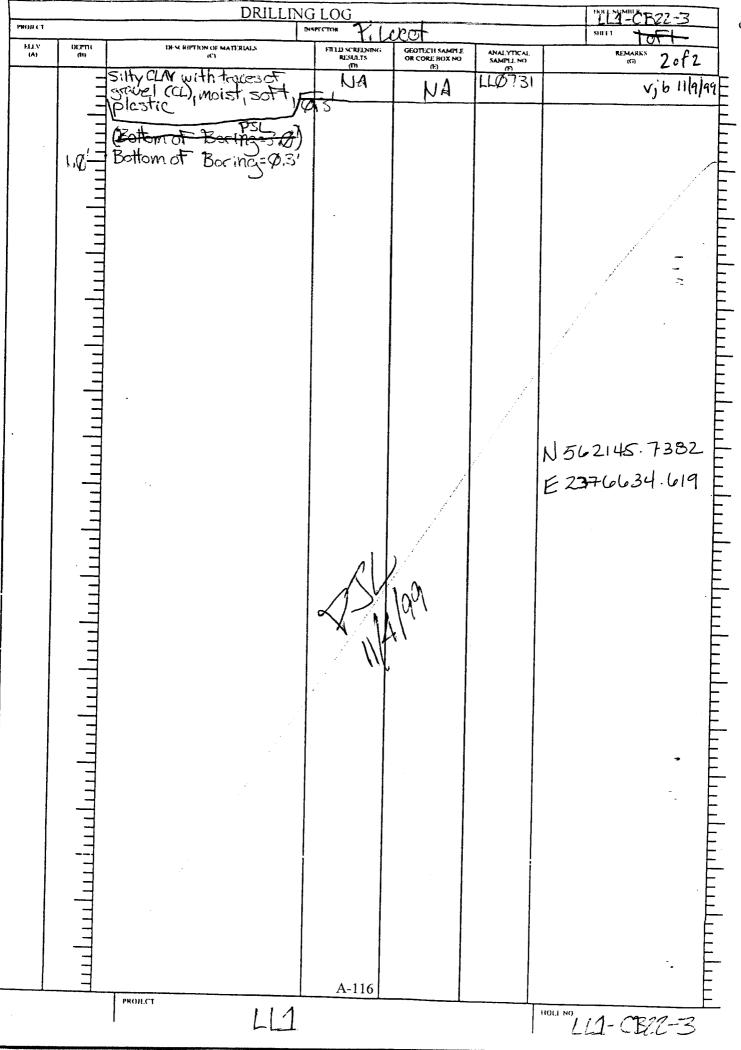


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ELL.V (A)	DEPTH (N)		FILD SCREENING RESULTS (D)	GEOTICII SAMPLE OR CORE HOX NO (E)	ANALYTICAL SAMPLE NO (F)		REMARKS (G)	
		ML-S. It wisd nd (Klob), subsounded, subanguler, no-grain. 107f	0.0		46723	Bestor	K encountered.	
	<u>0,5</u> ∕Ξ	312 r. dK. grayish brown. soft,		NA				= <u></u> E
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		LL1-Potential	Disposal	Hrey	1	HOLENO	2-p4	

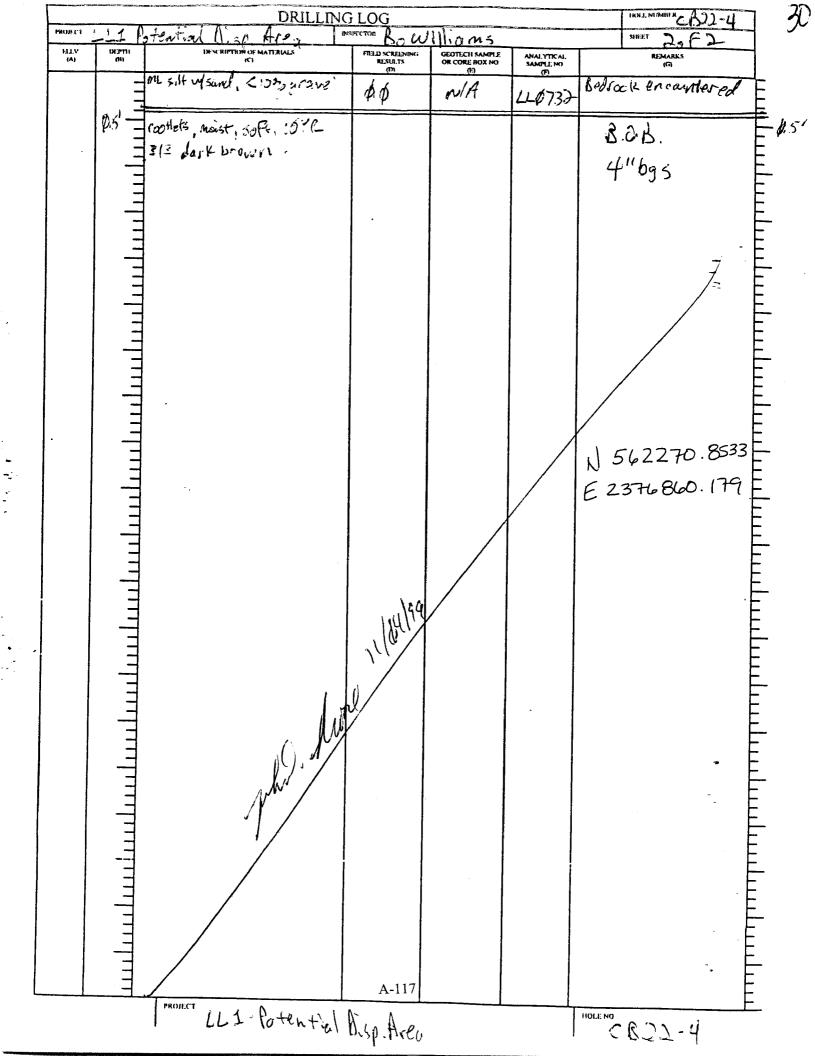
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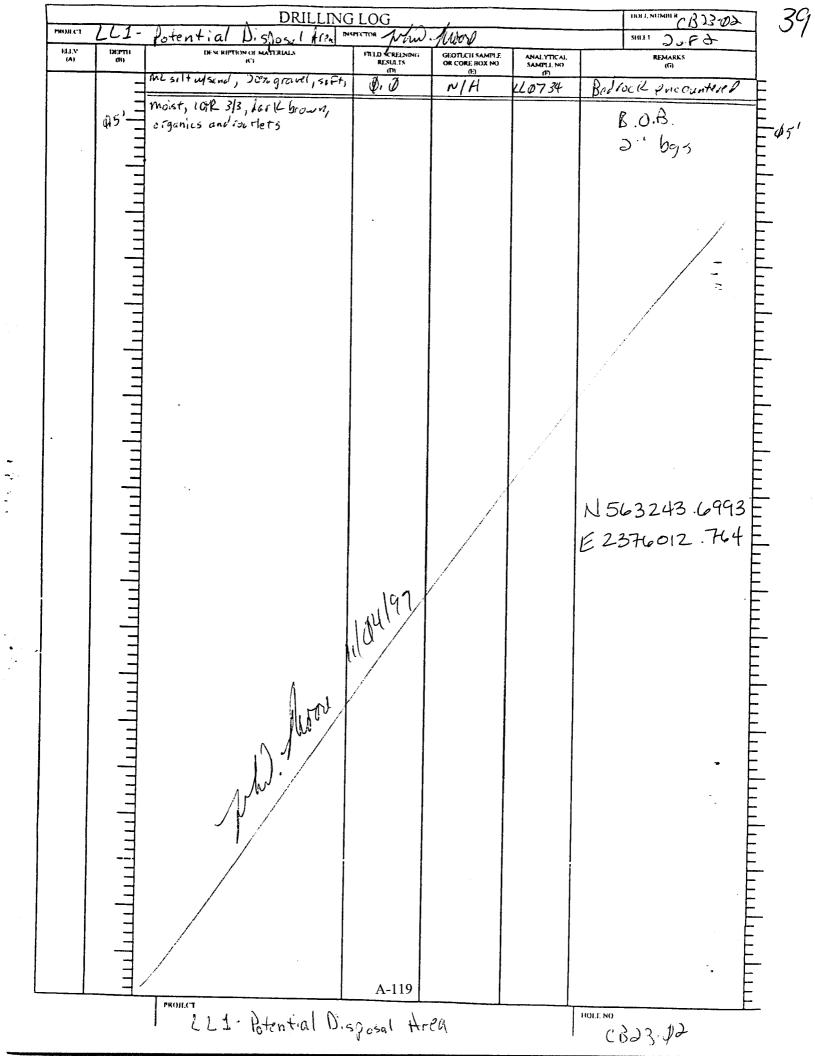


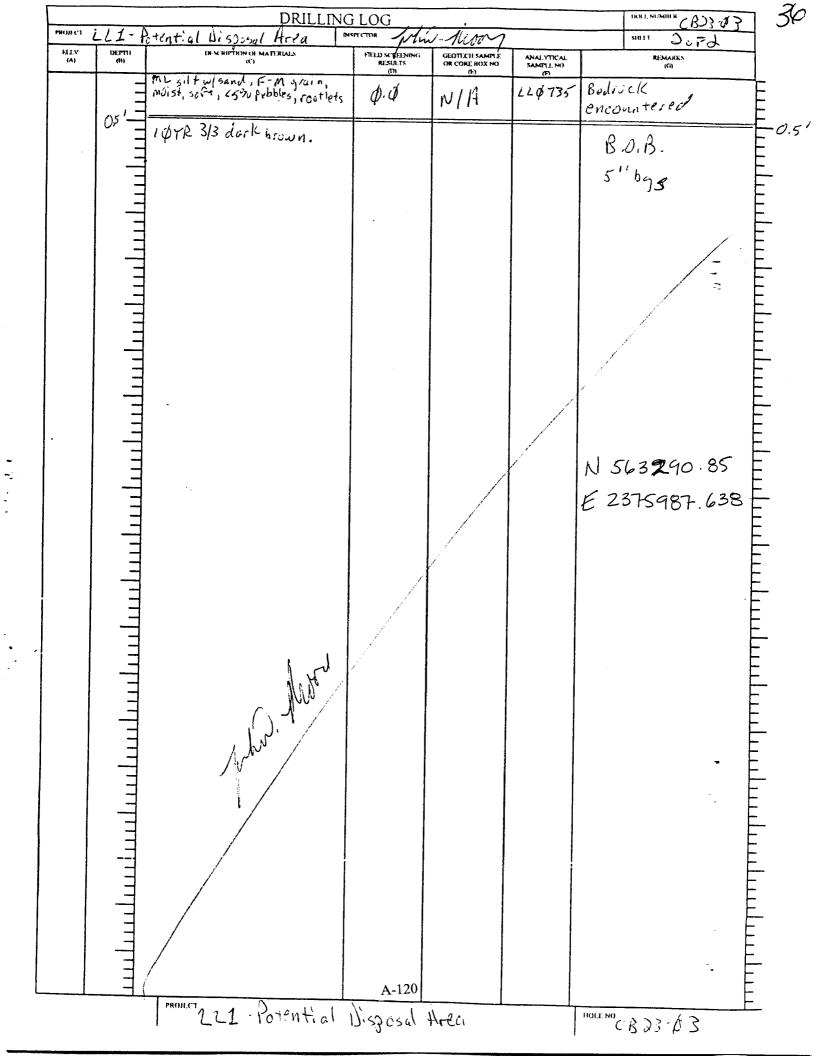
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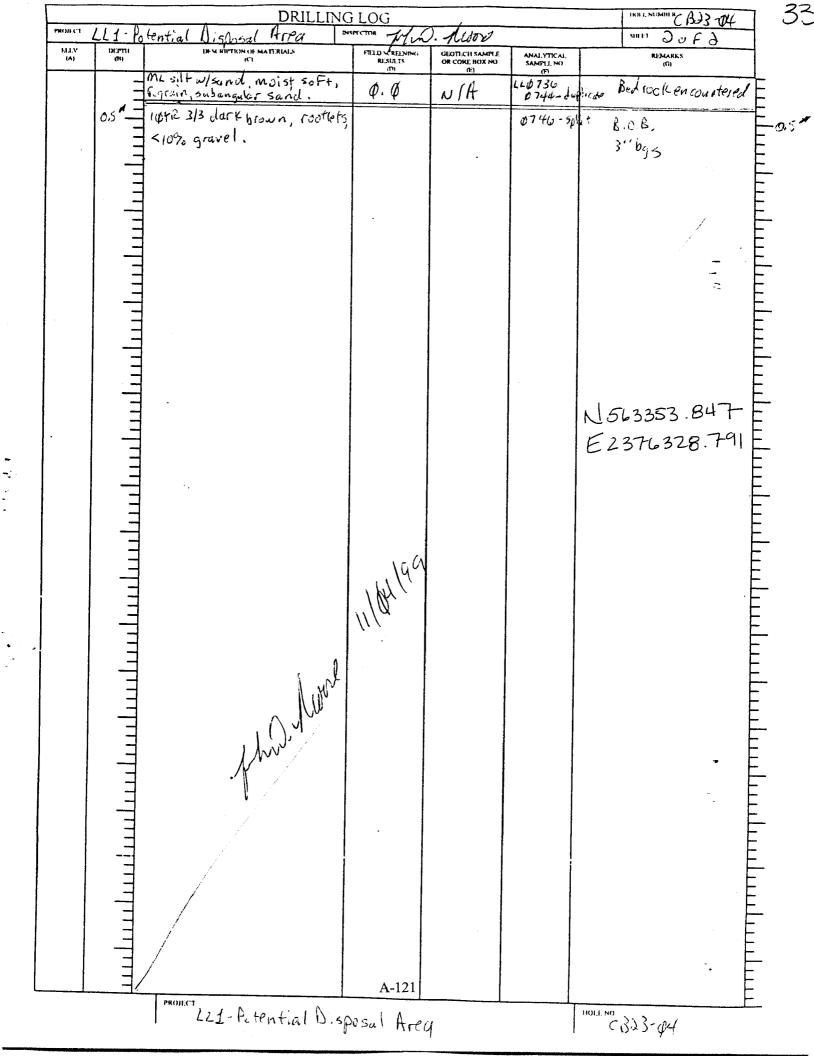


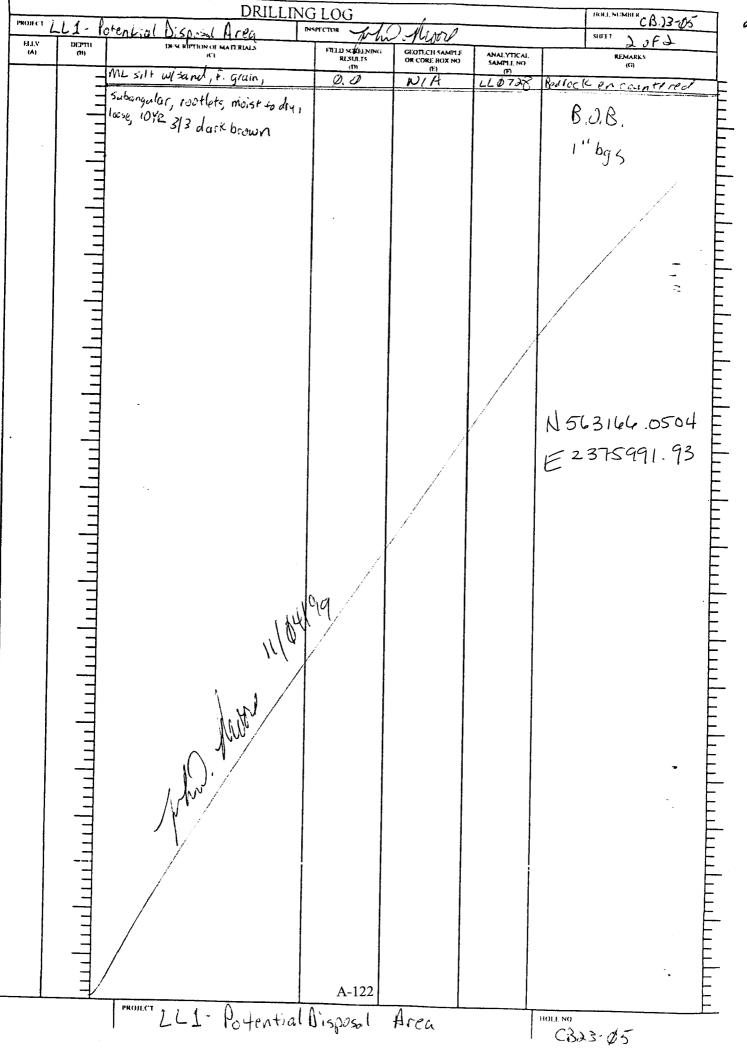
ſ			DRILLING				INCEL NUMBER B23-01	<u>]</u> 30
	РИОЛЕСТ	LLI	· Potential Disposal	WATCTOR fin	)-flipp	r	SHIET 2072	4
	ELLV (A)	0129993 (10)	(C)	FTELD STREENING RESULTS (1)	GEOTECH SAMPLE OR CORE BOX NO (E)	ANALYTICAL SAMPLE NO	REMARKS (G)	
		1	ML silt wlsand, f.g.din,	Q.O.	NIA	260733	Bedrock encountered	
			subangular, socriets, moistko dry, 100se, 10423/2 dark				B.O.R.	
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L	——————————————————————————————————————	·····	PROJECT 1			L ]	HOLE NO	<u>E</u>
			PROJECT LLI Potential	WISPasa	1 Area		CB23-Ø1	
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ROJECT	<u> </u>	DRILLIN				HOLE NUMILER
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(A)	an A	(C)	FTELD SCREENING RESULTS (D)	GEOTECH SAMPLE OR CORE BOX NO. (E)	ANALYTICAL SAMPLI: NO	REMARKS (O)
	¢ IIIII	104R 3/2 sandy silt and gravel some stag, dry, not pastic				Øppin idlict LLIQERO e 1230
	1,01	Lo're Py	+	3/4 below 6")		(Map pg.3) TD 9.12.00
		104R 2/1 Sandy Silt and gravel, with sloy, moist, not plastic	GM (Hole cave	in aller 18 Fo 19 ravel	st)	13 4.12.0001 @ Cullect LL20001 @ 0855
	1.5		`∞/slog and	leg ravel		PID @ 450 ppm (In hole) TD 9/19/00 J
	mhulmhu	•				N563404.2076 E2376611.317
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	nhu	ч.				
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		PROJECT RVAAP Phase II	PI	······		HOLENO LLI-PPI

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			DRILLIN	GLOG			IKHJ, NUMUR	_
	РКОЛ С1 Н.1. V	RI	HAP PHART RI	NEPECTOR J	DeVan	ahn	SIGET (cf)	1
	(A)	(11)	DESCRIPTION OF MATERIALS (C)	FTELD SCIULENING RUSULTS (D)	GEOTUCH SAMPLE- OR CORE BOX NO	ANALYTICAL SAMPLI: NO	REMARKS (G)	*
		19 =	10 YR 416 poorly sorted	(0)	(!)	(F)	Øppm	
			growelly sand some silt	SM				
		=	growelly sand, some silt, loose, not plastic, dry				called 110803@1300	
							E E	
			1.0-2.0' 164R4/6 5.15 fine sund, louse, muist. Sandy Silt, 5M SCA 3/20/01	+			(Whip pg 10) g E	
			S. 14 fine sund, louse, muist.	sm			TD 9.12-20	
			Gandy Silt, SM				Oppm -	
		2.0 -	5KA 3/20/01				Refusal@ 2.0' A	
							TO 4/18/00	
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							N 56 3397.6741	
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			PROJECT RVAAP Phose	TRI			LLI-QO2	
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PROJECT	~.		DRILLING	LOG	· · · · · · · · · · · · · · · · · · ·		164 E MINHER	7 - 7
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(A)	(11)	(C)		FTELD SCREENING RESULTS (7)	GEOTECH SAMPLE OR CORE BOX NO. (1:)	ANALYTICAL SAMPLE NO	REMARKS (G)	
	10"	silt sand 7.5 ylr 4/2	- 7	ML	NA.	LL]·0305	Sunp. time 15:35 15:35	
		PROJLCT		A-125			refusal @ 10" (When pg. 24) N563333.0726 E 2376655.54 j's 2-2301	
		1 RVAAP	Phase I	I RI	-		LL 1-003	

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MONITY     RVAAP     Phone II RI     Important Representation of MATERIALS     Important Representation of MATERIALS       HILV     INEXTITUTION OF MATERIALS     PREJ SCRIENING     GEOTECH SAMPLE     ANALYTICAL     SHEET     1     1       HILV     INEXTRIPTION OF MATERIALS     PREJ SCRIENING     GEOTECH SAMPLE     ANALYTICAL     REMARKS     IFERT     1     1       HILV     INEXTRIPTION OF MATERIALS     PREJ SCRIENNG     GEOTECH SAMPLE     ANALYTICAL     REMARKS     IFERT     1     1       IN     I     SCRIE     SCRIE     OR     OR     OR     IFERT     1     1       IN     IN     I     SCRIE     IN     IN     IN     IN     IN     IN       IN     I     SCRIE     IN     III GITCUNAL     IN     III GITCUNAL     IIII GITCUNAL     III GITCUNAL     IIII GITC				<u>i LOG</u>	DRILLING		
(A)	HOLE MOMBER		ACIN		HP Phay II RI		РКОЯ СТ
Some gravel fill around ML N.A. Some gravel fill around ML N.A.	 REMARKS (G)	ANALYTICAL SAMPLE NO	GEOTECH SAMPLE OR CORE BOX NO	FIELD SCILLENING RESULTS	(C)		
1.3' TD 9/19/02	 15:15				7.5 yl: 4/3 some gravel fill around		
	(Map pg. 24) collect @ 1315	121-0809	NiA.	CL	1.0-1.3	1.3	
	TD 9/19/00 N563311.5532 Z376601.306						

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РКОЛ СТ		L'I - 005				
ELEV	UNCOTTA	DESCRIPTION OF MATERIALS	METTINE Martin			NIGET O TRANSPORT
(A)	(M)	(C)	FTELD SCREENING RESULTS (7)	GEOTECH SAMPLE OR CORE HOX NO (E)	ANALYTICAL SAMPLE NO	REMARKS (G)
	3" -	Silt loam, organic, gravel	ML	NA.	1-1-005	Pipe 3' refral =
		pipe surrounded " by Afill + Sund"			2610810	samp times 15:00 = 1435 =
· ·	0.5'_	Refusal @ 0.5'				(Map pg. 24) 12/11/00 E
		TD 9/14/00				
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	1111					N563243.0056 E 2376478.959
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		RVAAP Phase			<u> </u>	
		· VANT MASE	⊥ KI	-	1	LL1 - 005

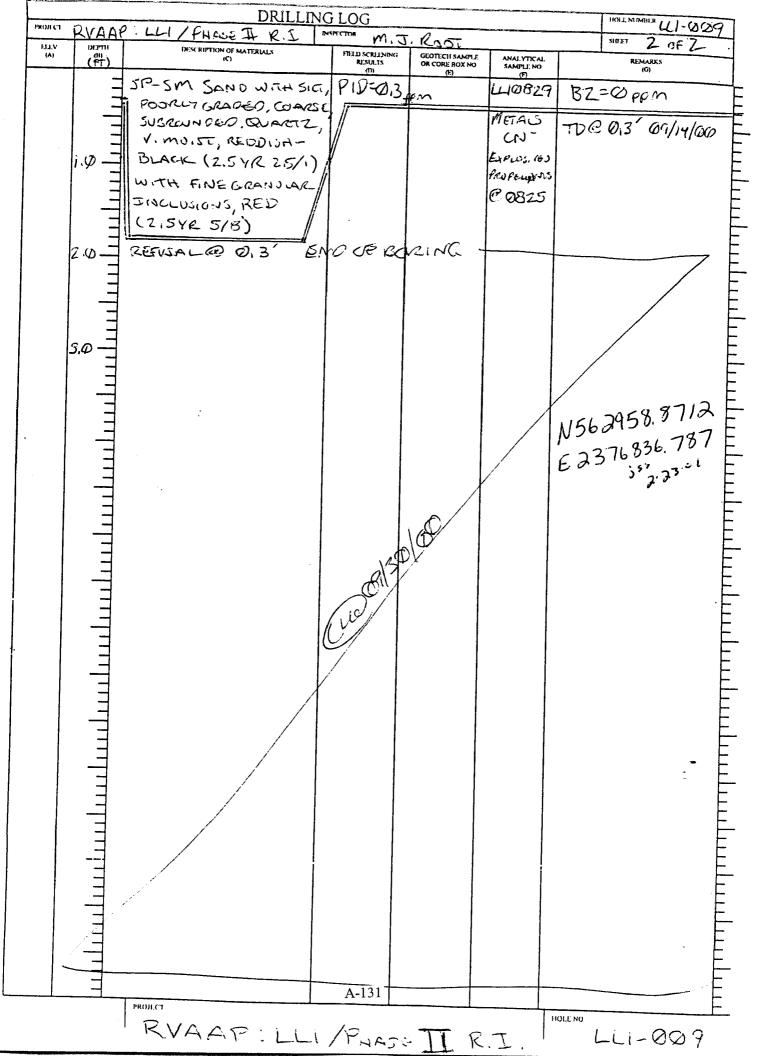
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(A)	<i>c</i> iii	(7)		FTELD SCREENING RESULTS (T)	GEOTECH SAMPLE OR CORE BOX NO. (E)	ANALYTICAL SAMPLE NO		REMARKS (O)	
	, , , , , , , , , , , , , , , , , , ,	Fine sand cky 7.5 YR 2/2 lorse slight 1.0-2.0	, moist phistic	SC GA MH			collect LLIOS C	313 8:50am	
		7.54R 3/2 Fine sand and clay loore, moist, slightly		5 [.] C			P (Marp P	hitso / efusile/e vjb 17) 12/11/00 108/4@/002	
	2.0	(Hole coves in at 2.6 gravel (Wet)	>' with J)				TO 9/19/	~	
								57.874	
				A-128					
		PROJECT RVAAP	Load Lu	ve I Ph	me II RI		HOLE NO LLI - 66	F	-

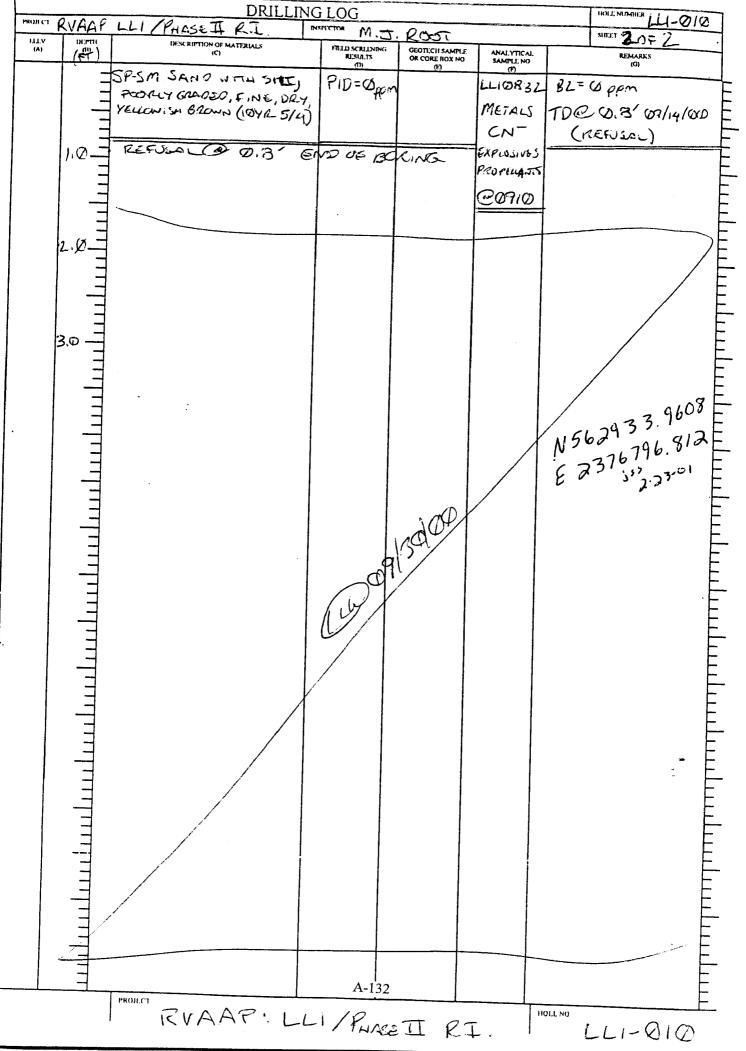
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			DRILLING	GLOG		·····		IKH L NUMBER	
PROJECT FLEV	KVAAP PIYNETT RT I"		ISPECTOR			NOET LOFT		- 19	
(A)	(M)		(C)	FTELD SCRUDNING RESULTS		ANALYTICAL SAMPLI: NO	1	REMARKS	·  ′
		10 yr 3/4 sil Loose, dry	t/saud/growt, not plastic	(GM	(t)	•	colle	ut un abiseiss	
	ı.¢*	1.0-1.51 Fetus	the second s	:			1	at marsersers	
	1.5'	108R 5/4 Silly 1000e, moist, n Refusel	Sind with growel atplashic	GM			TD Collect Oppm	) 9-12-88 LL2081600945	
	111111111	11010741	<i>C</i> //3					3385 0301	
		•					E 23	3385,0301 76558.887	
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PROJECT RVHAP AVIX II RI HOLENO							<u> </u>	-	

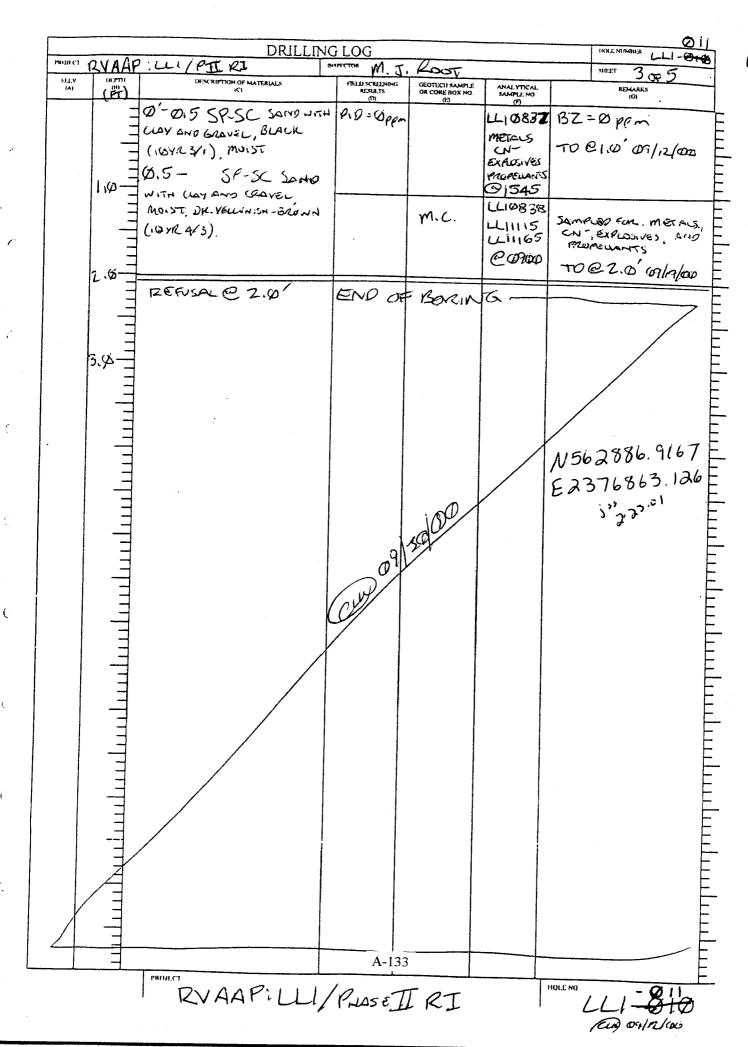
РКОЛСТ		DRILLIN	<u>G LOG</u>		. 1	IKXENUMHER LLI- POP	
ELLY	ורדין:או		NSPECTOR	JDel	anoin	SIFET LOFT	Ð
(A)		IN SCRIPTION OF MATERIALS (C)	FTELD SCREENING RESULTS (D)	GEOTLCII SAMPLE OR CORE HOX NO	ANALYTICAL SAMPLENO	REMARKS (G)	
	Ψ=	Silty Chy, some sand and	<u>(n</u>	(+)			
		aravel there immerche		1			
		Time a sufer a cover (d)				collect LLIOSIT E	
		Silty chay, some sand and gravel, trace concrete Fragments upper 10', 1094R1/3, dry, firm					-
		104R1/3, dry, firm				@1345 E	
		(184RElle lever le" methie)					-
		1.0'-1.3'		+		(Map pg. 17) 5 =	-
		Silty clay (mottled), 104R7/1 w	io VB/1.10			TD 9-13-80	
		Silty clay (mottled), 104R7/1 wy tow plasticity, soft, moist				Cullect LL10818, LL1113, LL11163@1025 [	
	E					LL 111 43 @ 1025	
	1.3'	Refusal @ 1.3'		<u> </u>		Pilo Bright	
	_	11210141 (0 7.3				TP 4/18/03"2	
	_]					9/19/00	
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		PROJECT	A-130				
		PROJECT RVHAP FLASE	TRT			HOLENO LLI- DØ&	
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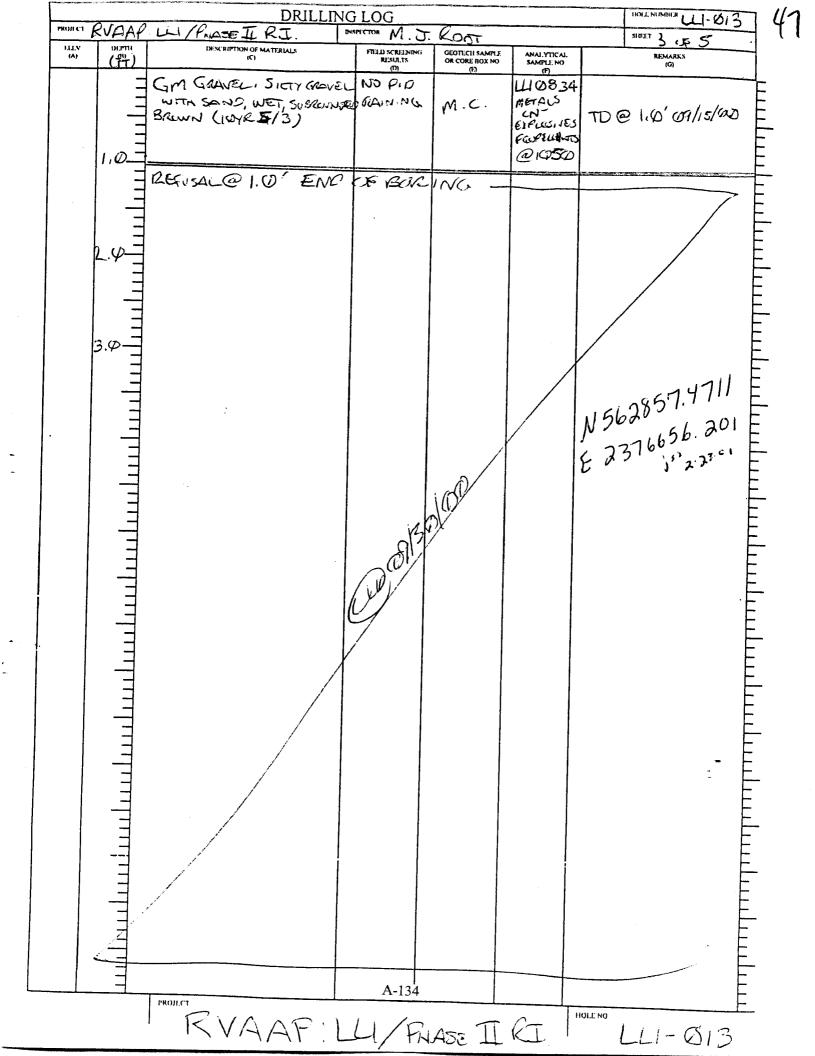


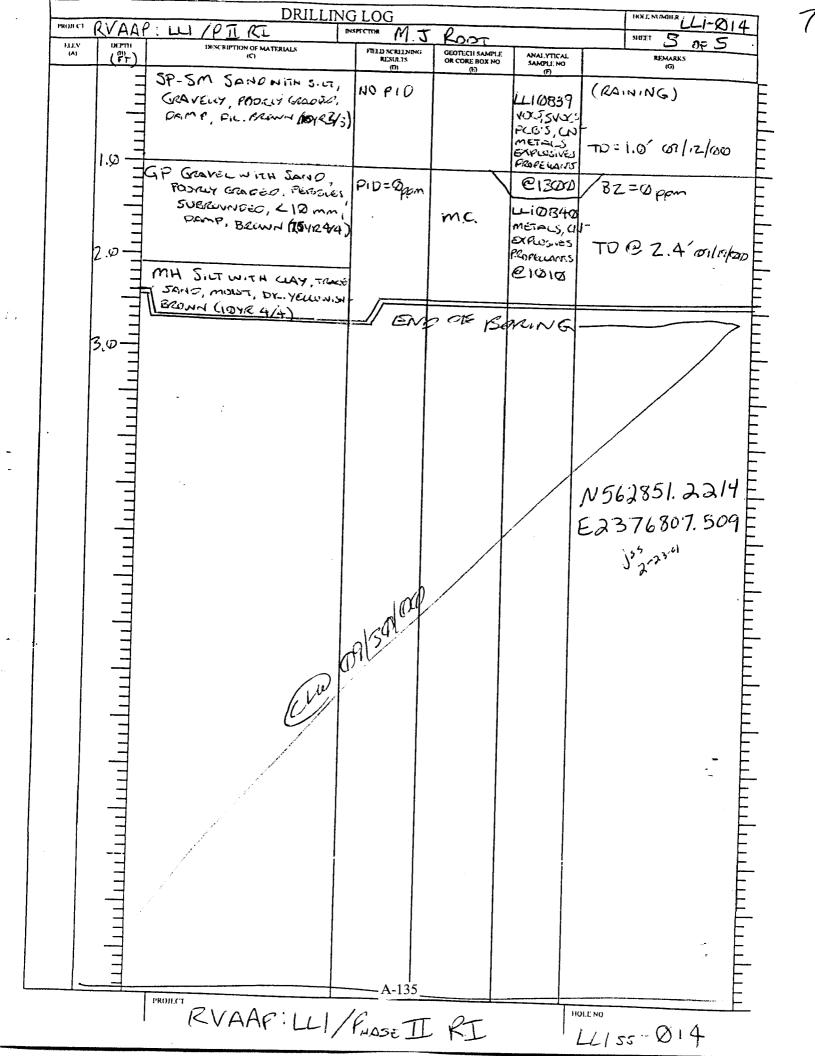


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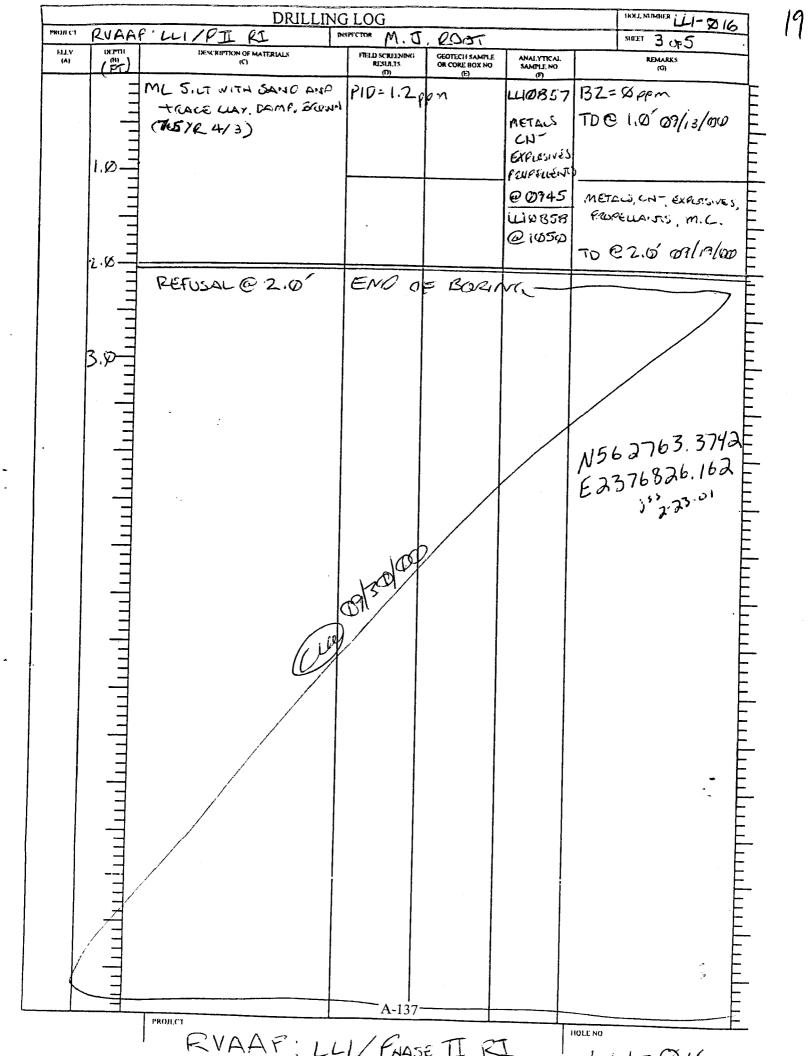


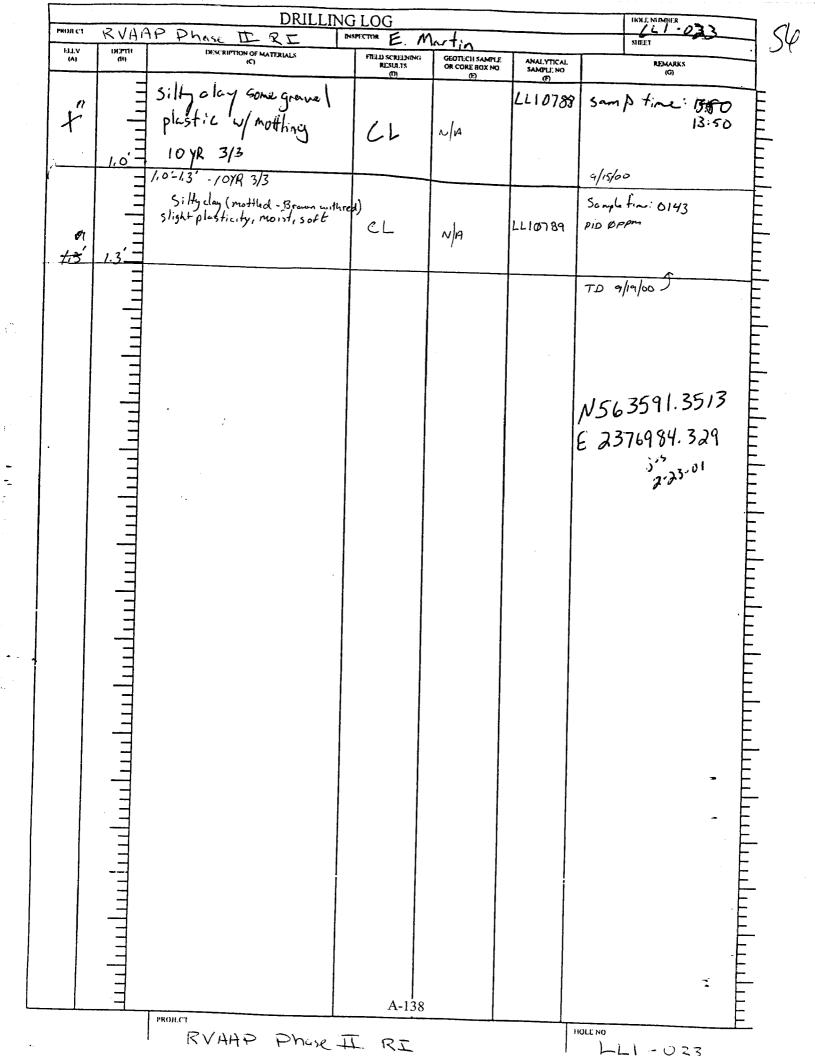
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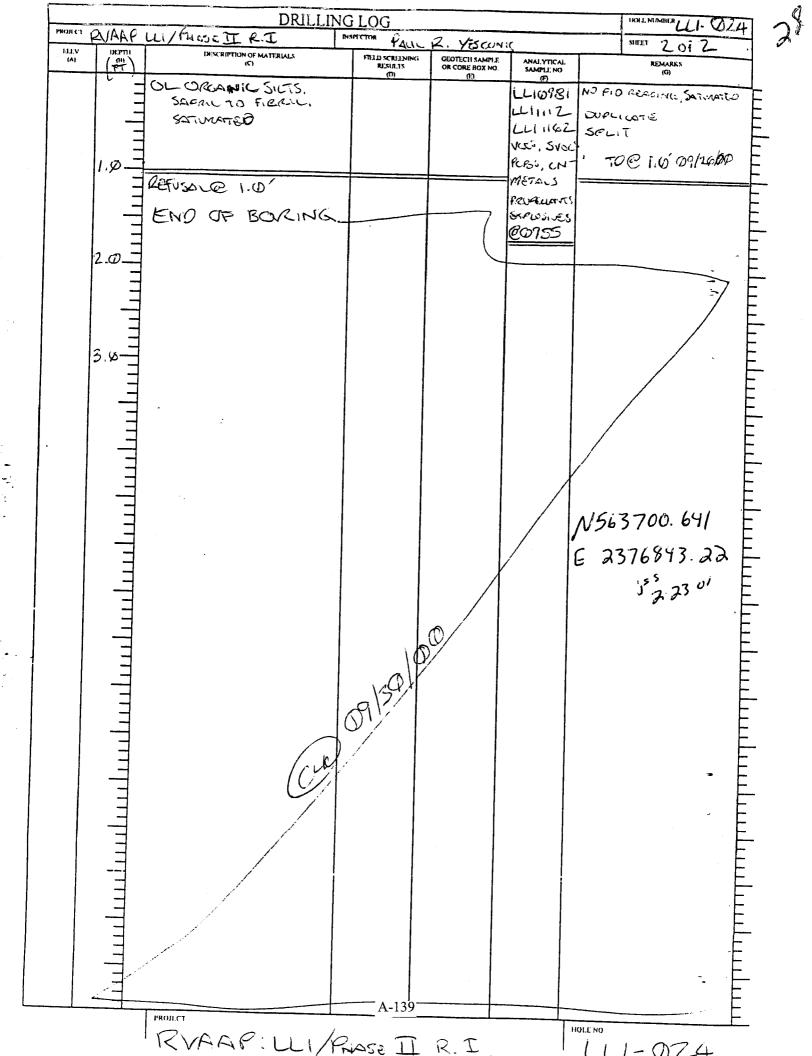


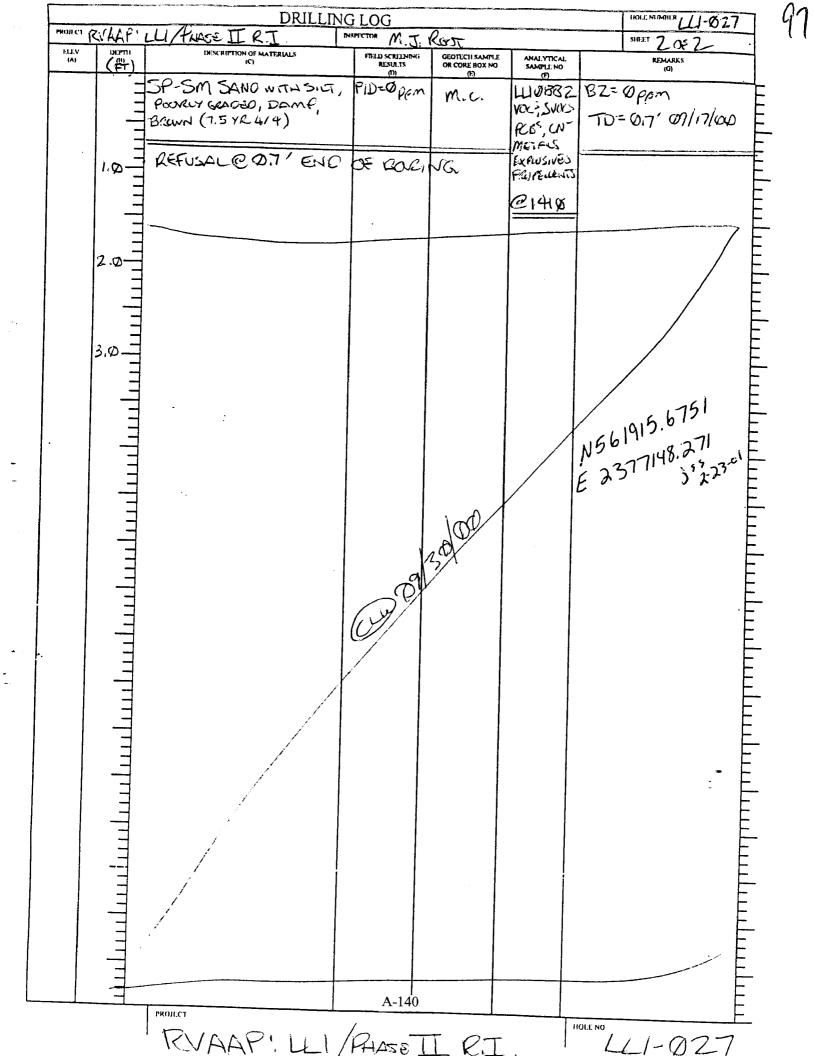


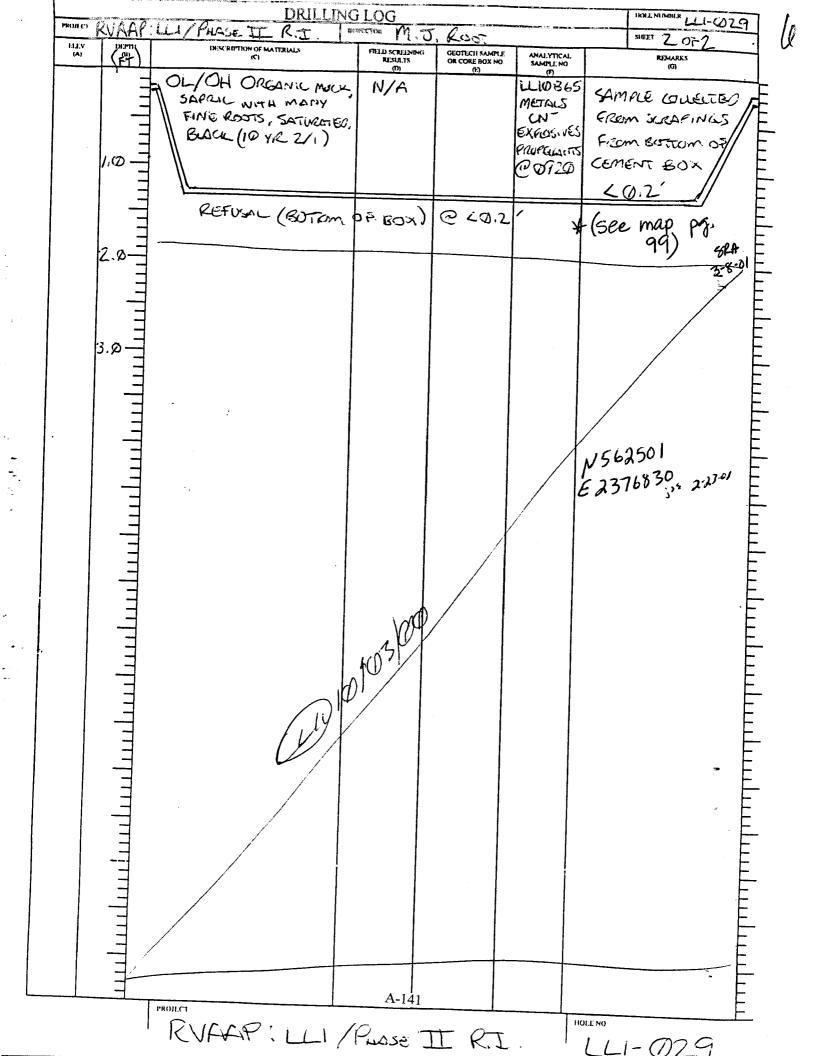
DRILLING LOG LICH J. MUMOR 0-015 ряол с і RVAAP: LLI INSPECTOR M, STORIET (05 2075 MEX DESCRIPTION OF MATERIALS FTELD SCREENING RESULTS (D) GEOTECH SAMPLE OR CORE BOX NO. (E) (A) ANALYTICAL SAMPLE NO REMARKS (G) SM SILTY SAND, MUIST, PID=0 LOCATED I'IN LI0841 DK. YELGWISH - BROWN METALS FROM OF TERRA (1577 4 (10YR416) CN-PIPE, BZ=Øppm EXFLUSIVES 1.0FRUPELIAITS TD=1.0' 07/12/00 21520 LIØ835 METALS, CN EXFLOLINES @0945 Frugellanis, M.C. TD@ 1.8' ogliglas END OF BORING REFUSAL @ 1.8' Б Þ N562874.55 E2376845 203 munnmunn J 27 2 3.01 - 1 m 09/20100 Note: Bused on The information here and also at the bottom of p. 9 of this logbook, sample LL168 35 should be associated with station LLI - 015. dn Talolo 5-1 of the Workplan sample U10835 was originally assigned to Station LU-013 I have marked up The table and will advise Marie Simpson to change The datalsase. Urelin Brumbah 12-11-00 A-136 PROJECT RVAAP: LLI / PNASE II RI HOLE NO LLI-Ø15

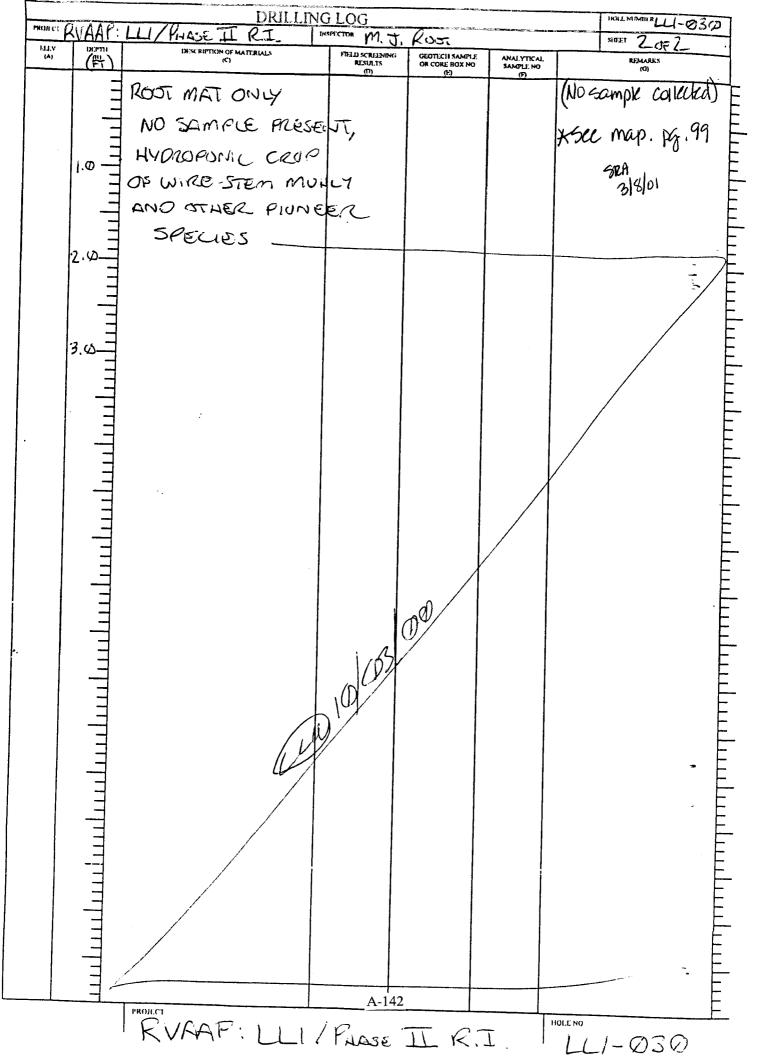












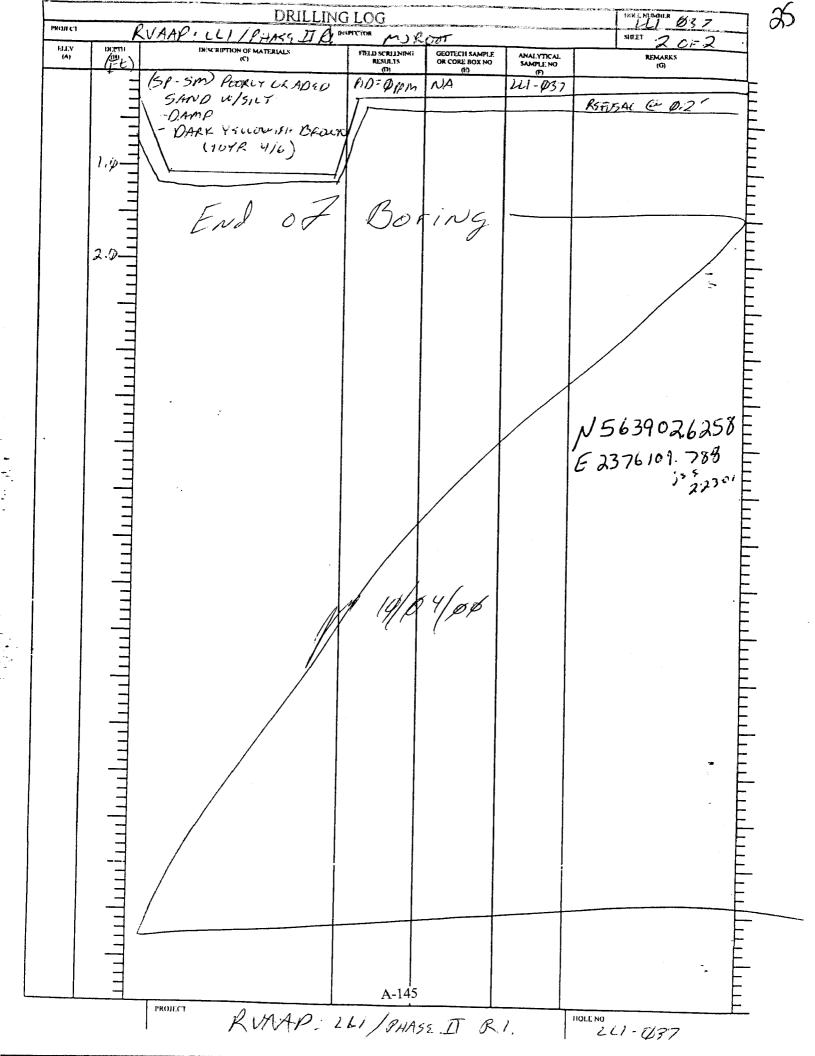
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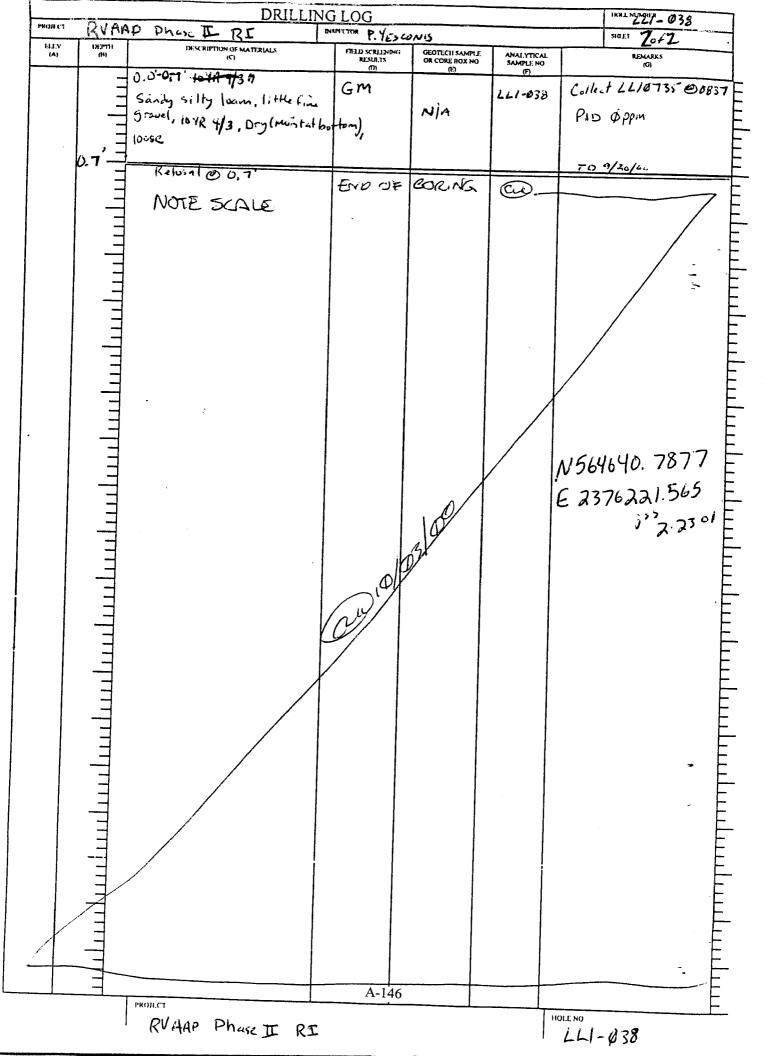
IKHE MOMILIE LCI DRILLING LOG <u>:034</u> PROMICT AAP. LUIPHASSIT L.I. NAPICTOR M) RETT si dege t 2 05 DESCRIPTION OF MATERIALS ELLY (A) 1913MI 1914 FTIALD SCRUENING RESIA.15 (D) GEOTECH SAMPLE OR CORE BOX NO (E) ANALYTICAL SAMPLE: NO REMARKS (G) (SP) POORLY GRADSD FID= LIBTLE NA REFUSAL ( Ø.3' FINE SAND WIMSOUM SUBANCULAR CRAVEL DAM.F · DLIVE BROWN 1.0 (2.54 4/4) ENd Berin 27 2 D. N563762.4444 E 2376179.721 10/04/00 1 1 1 <u>Induduuluuluuluulu</u> A-143 PROJECT RVAAP: LLI/PHASE II R.I. HOLE NO 211- 434

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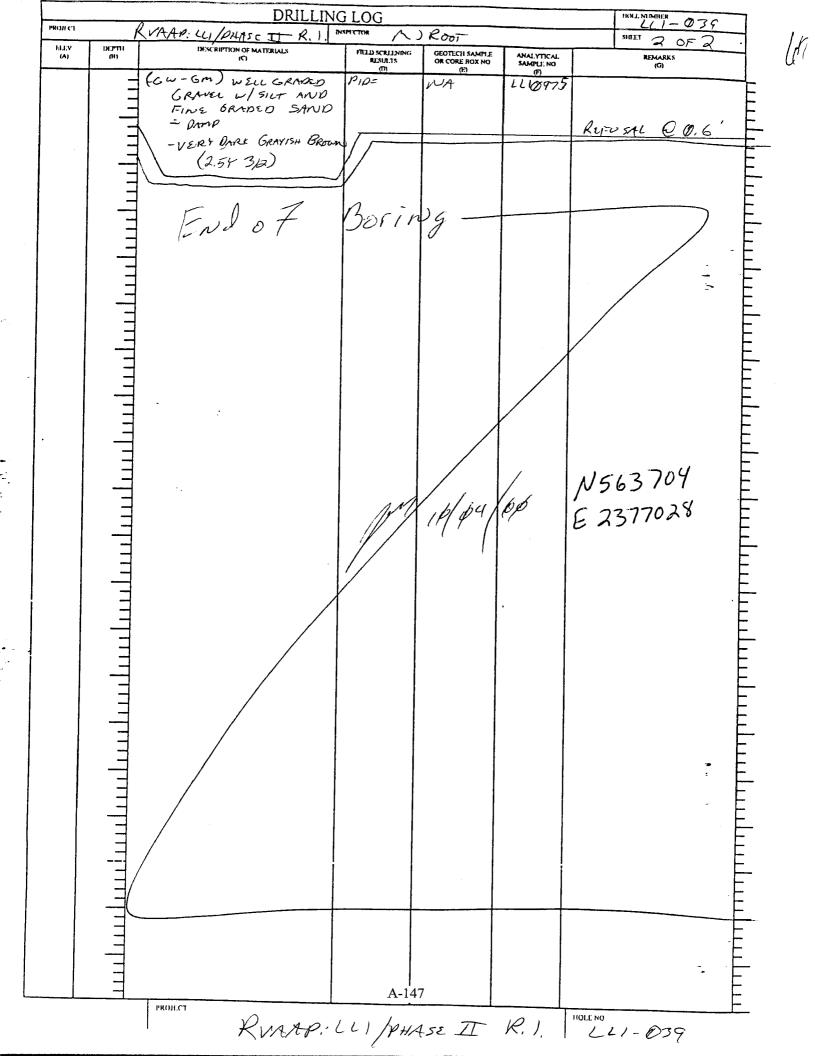
DRILLING LOG 网络白色 -11- W35 PRON C3 RVAAP: (LI /PMX IT KI. INSPICTOR MSROOT MOUT ELEV (A) OF DESCRIPTION OF MATERIALS GEOTECII SAMPLE OR CORE BOX NO. (E) FIELD SCREENING RESULTS ANALYTICAL SAMPLE NO REMARKS (G) ສາ (SP-Sim) POOTLY GOADED Ð PO: Oppn NA 410764 FINE SAND WISHT REFUSA @ 0.3' AND MOULT SUB-ANDWLAK GRAVEL pimp · 45000, SH BROWN 10 (10YR 5/4) End Of Boring 2.0 N563826.729 E 2376150,782 \$4\\$\$\$ ٦, A-144 PROJECT RVAAD: LUI/PHATSE II R.I. HOLE NO 221-035

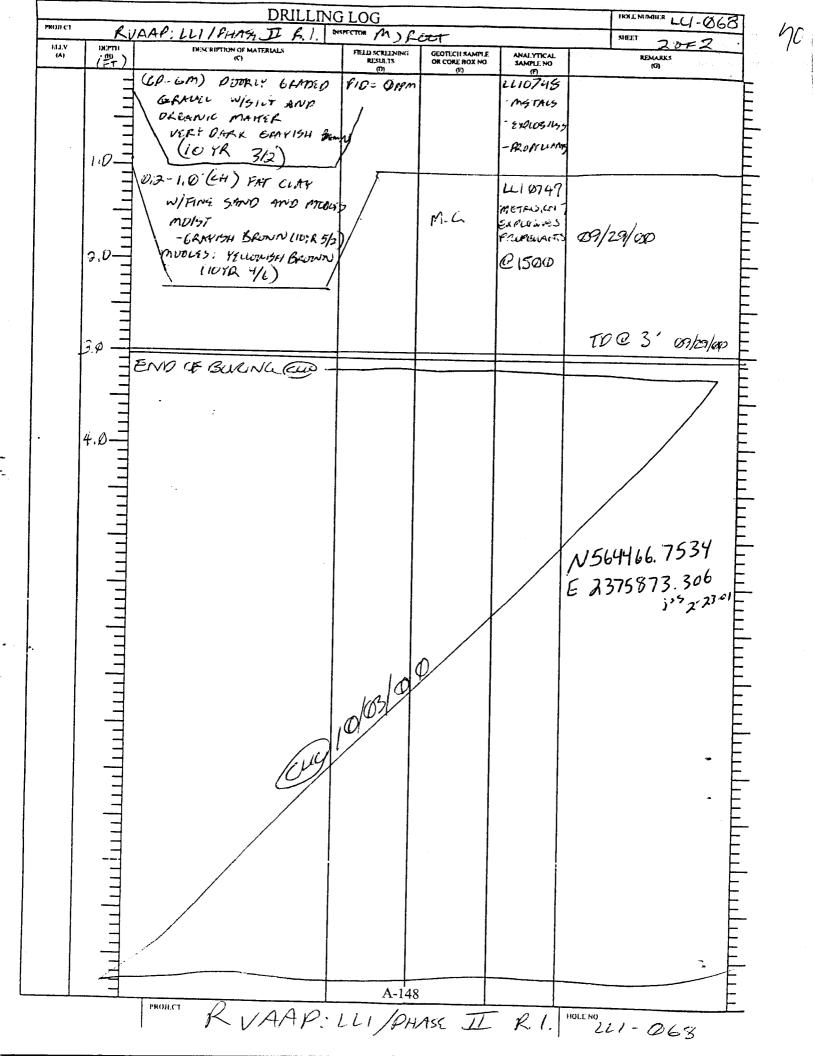
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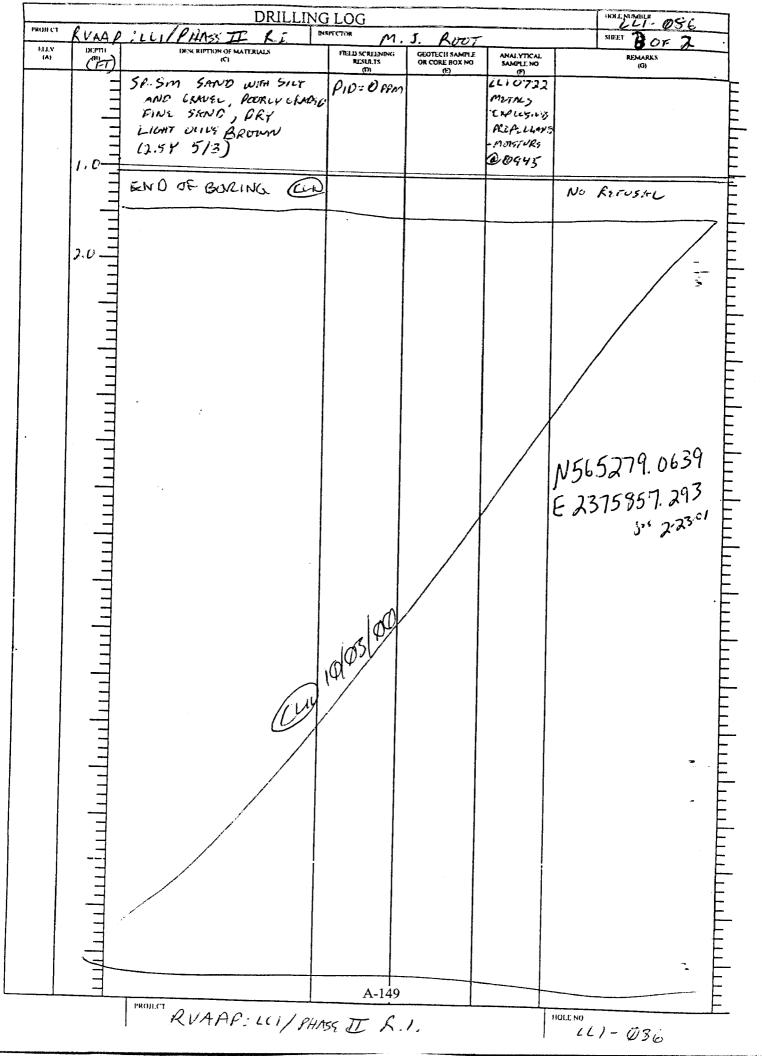




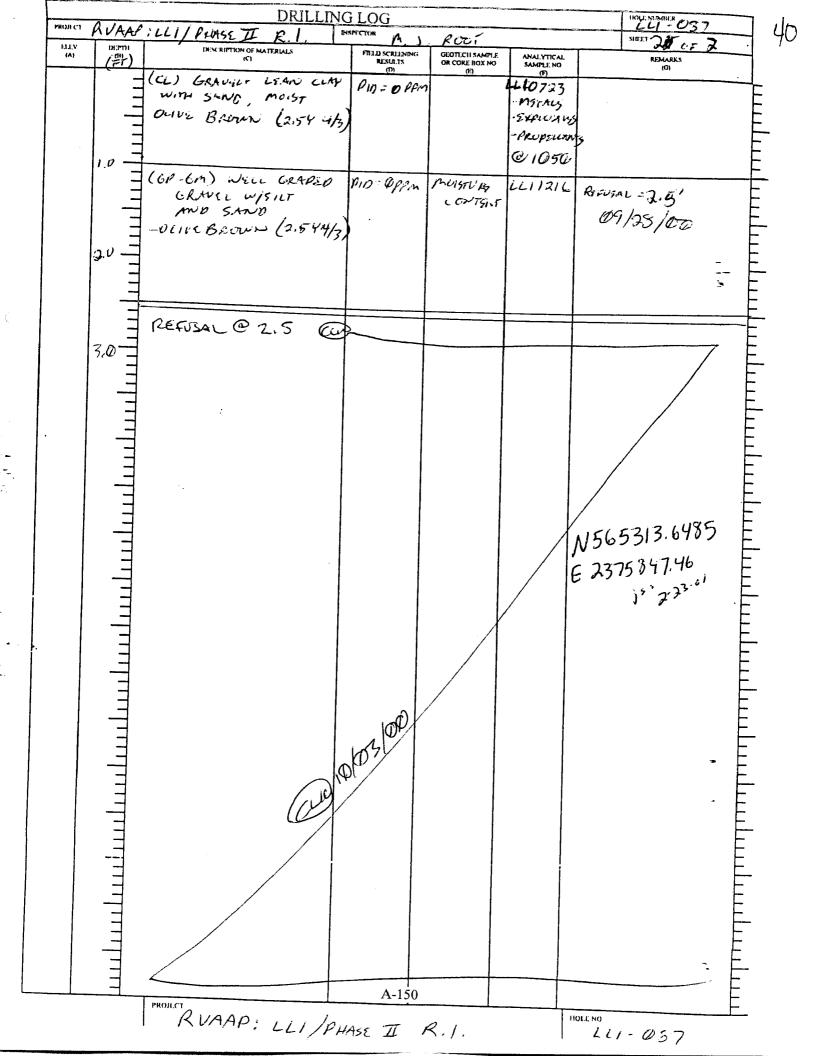
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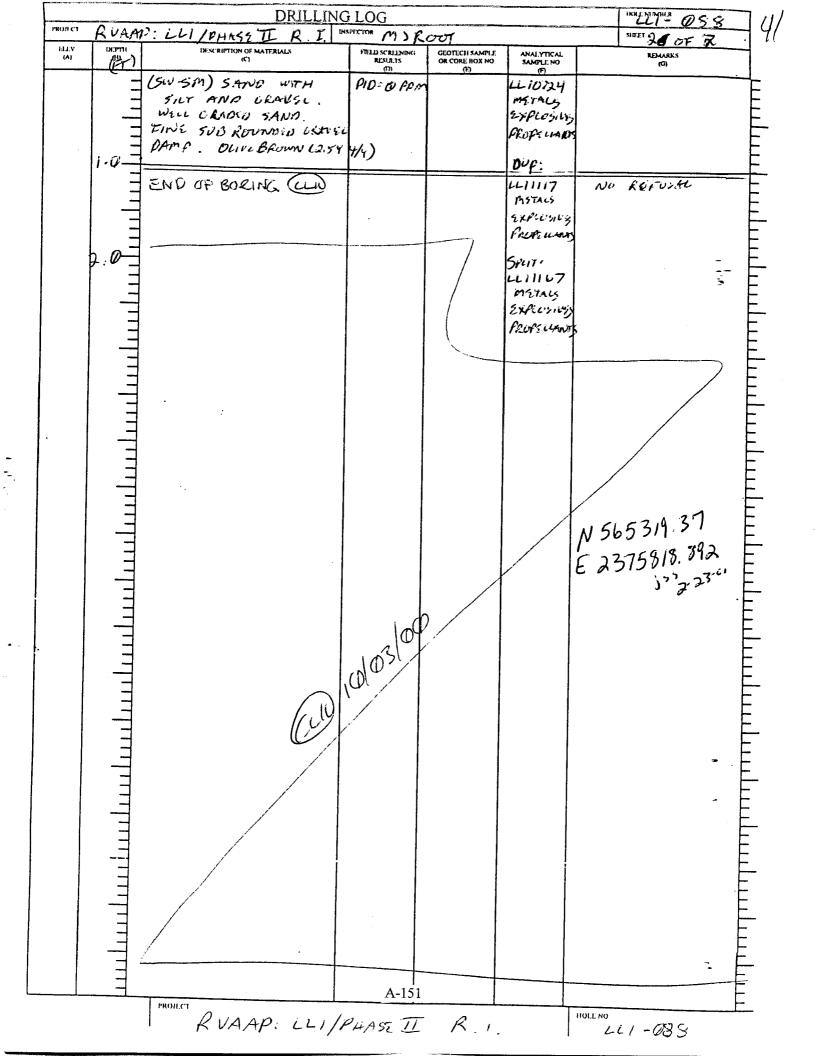


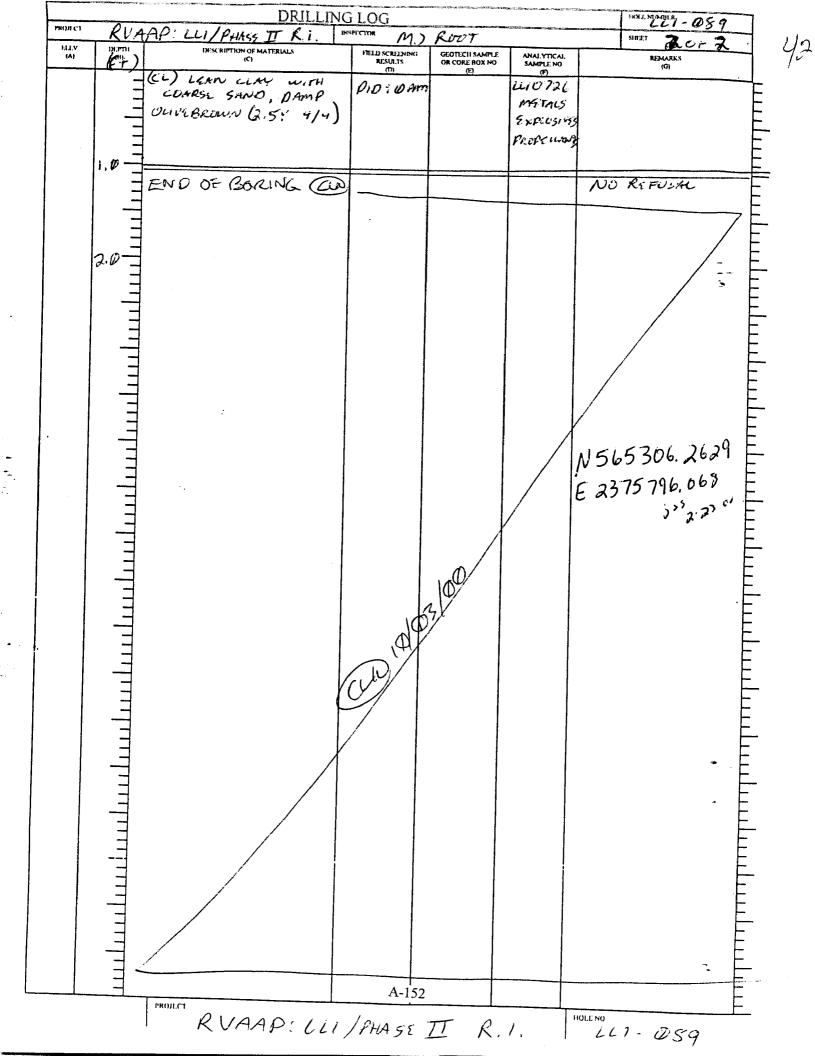


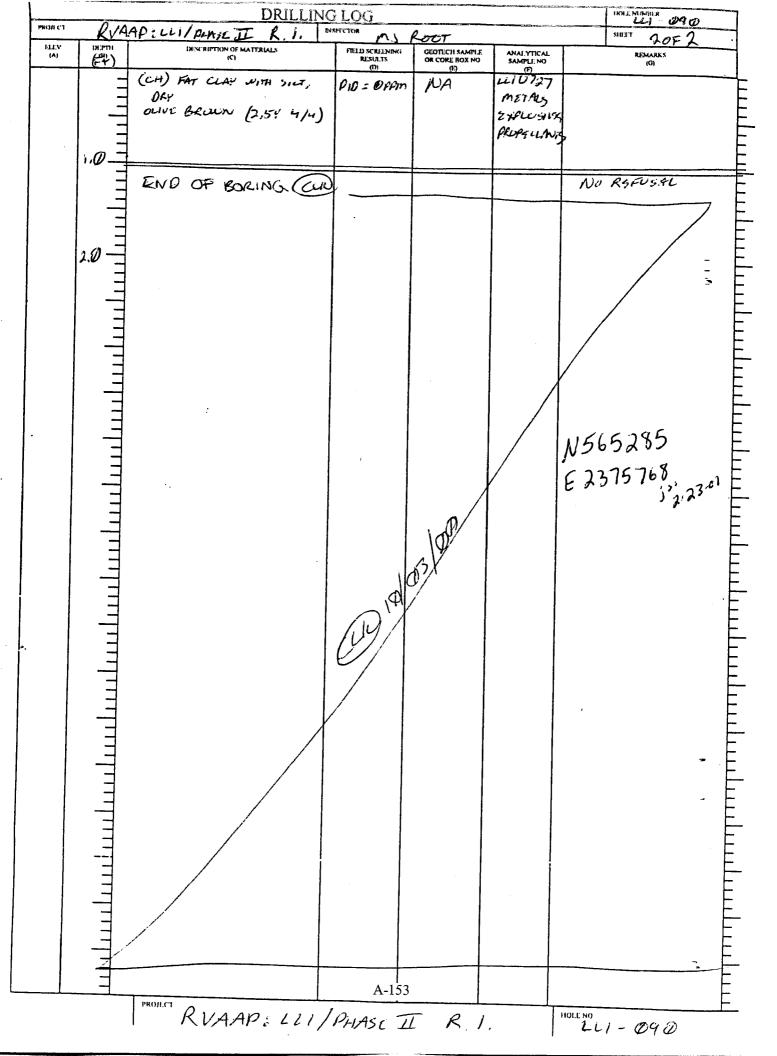


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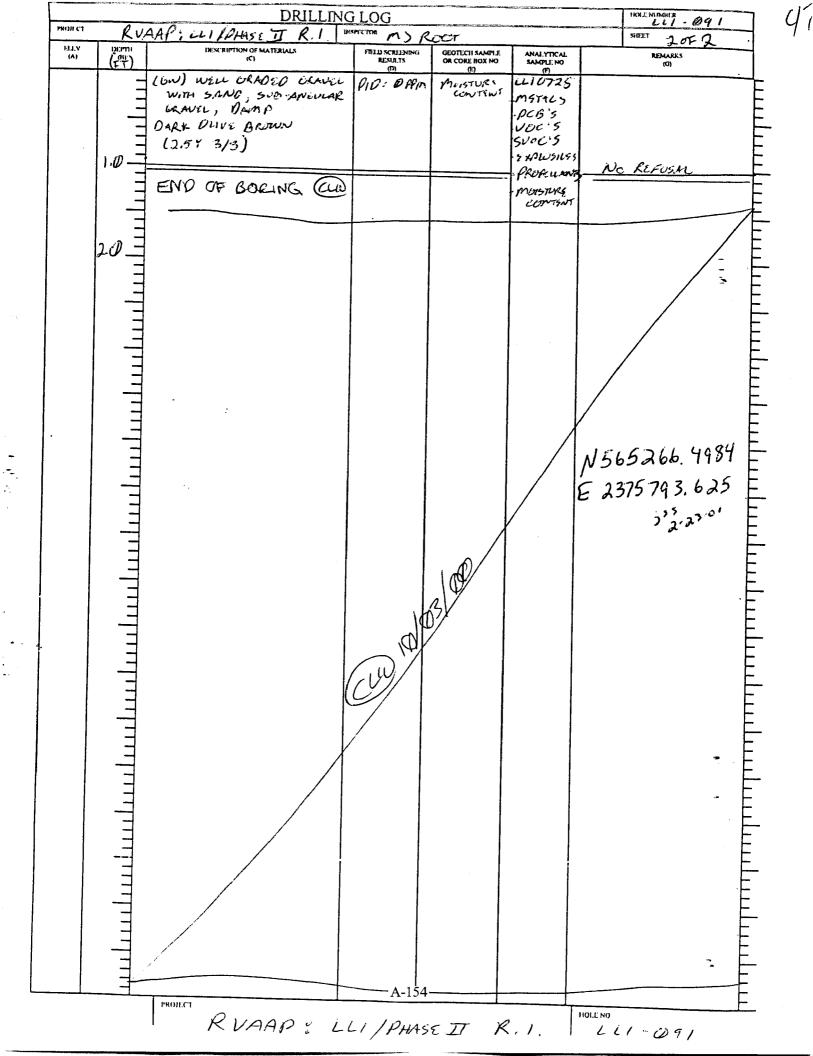


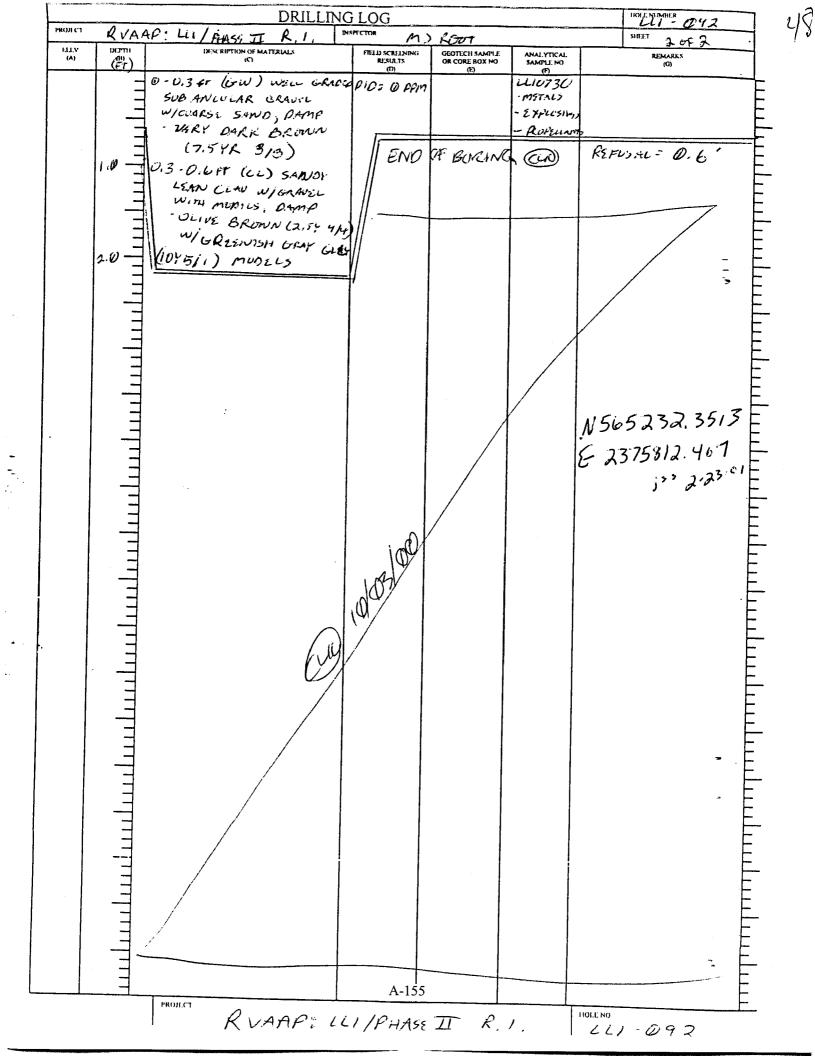


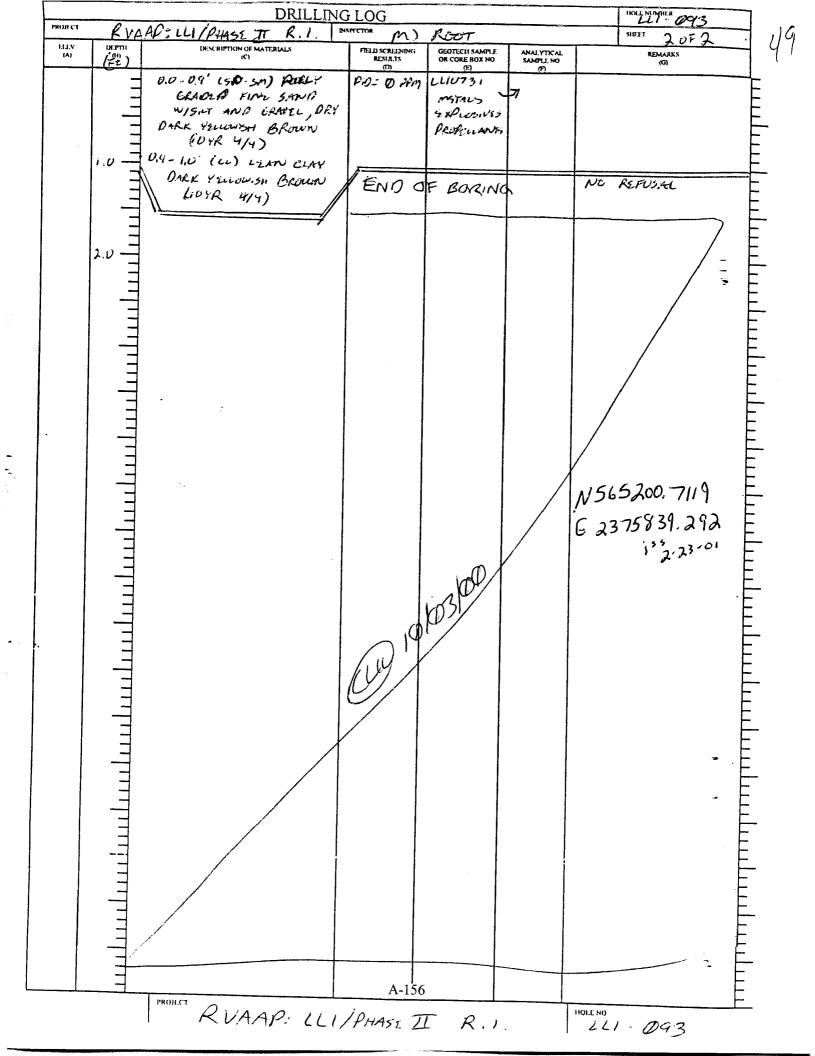
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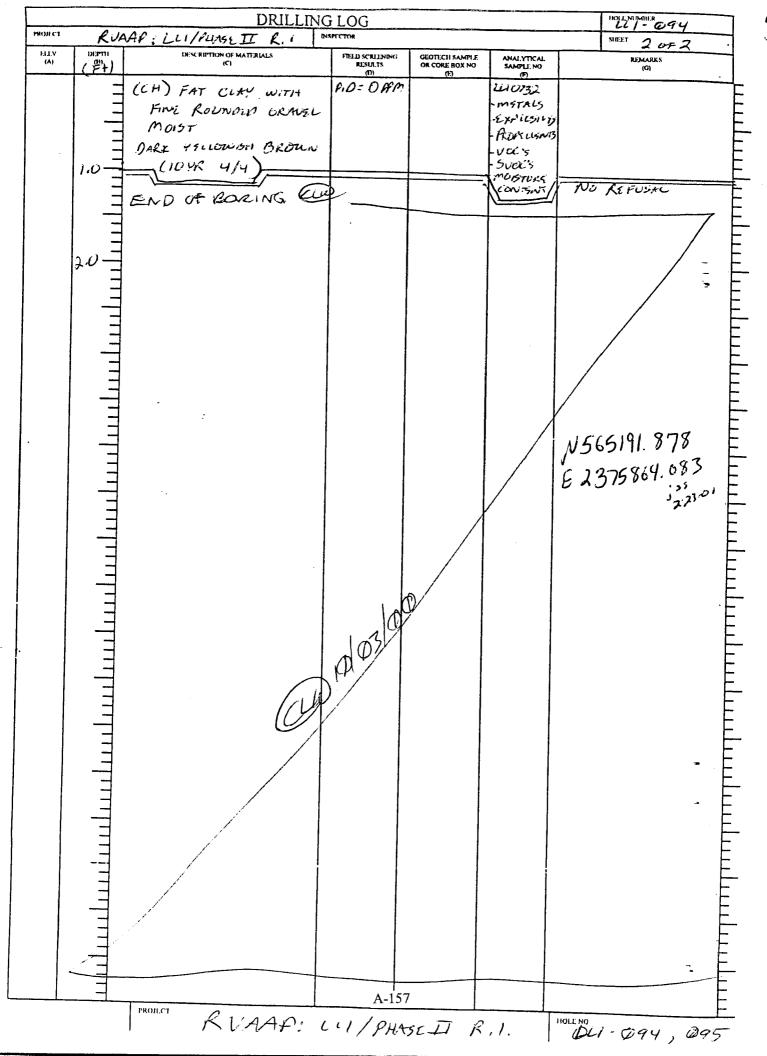
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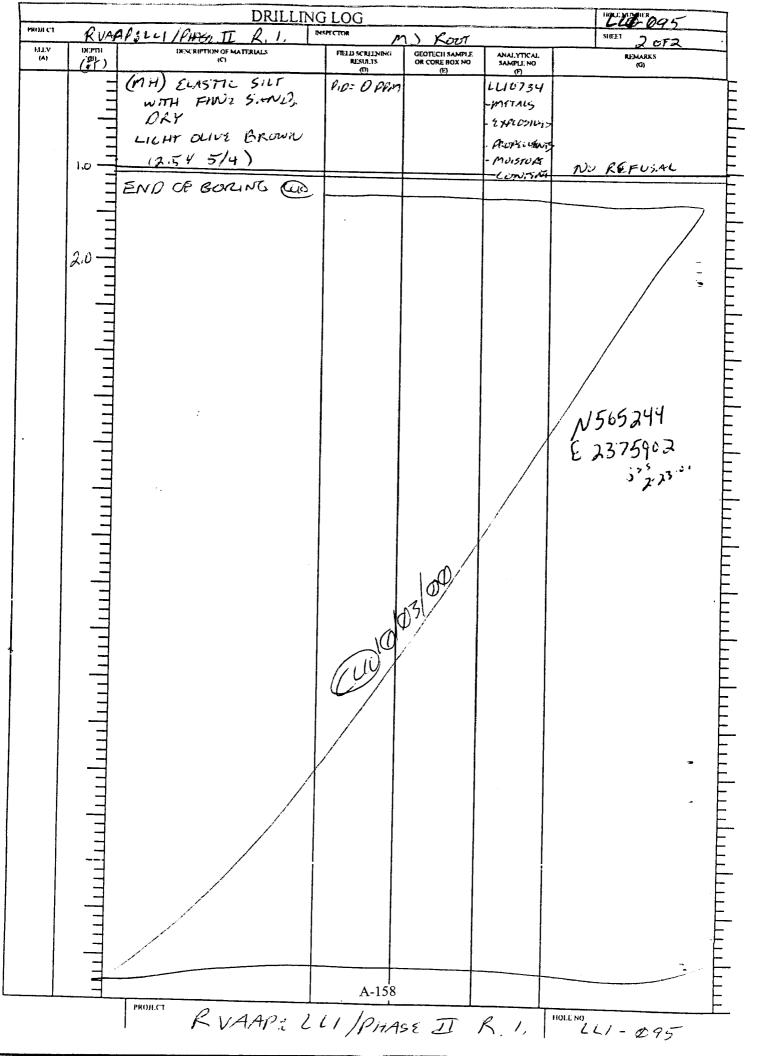




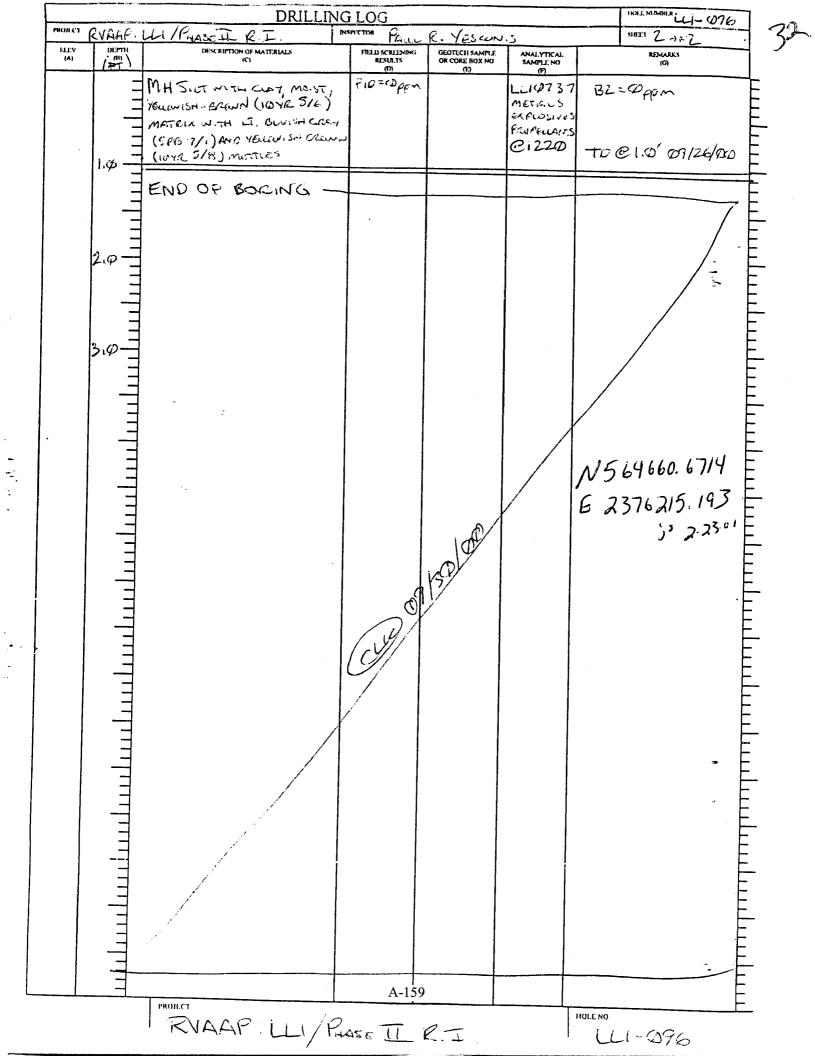


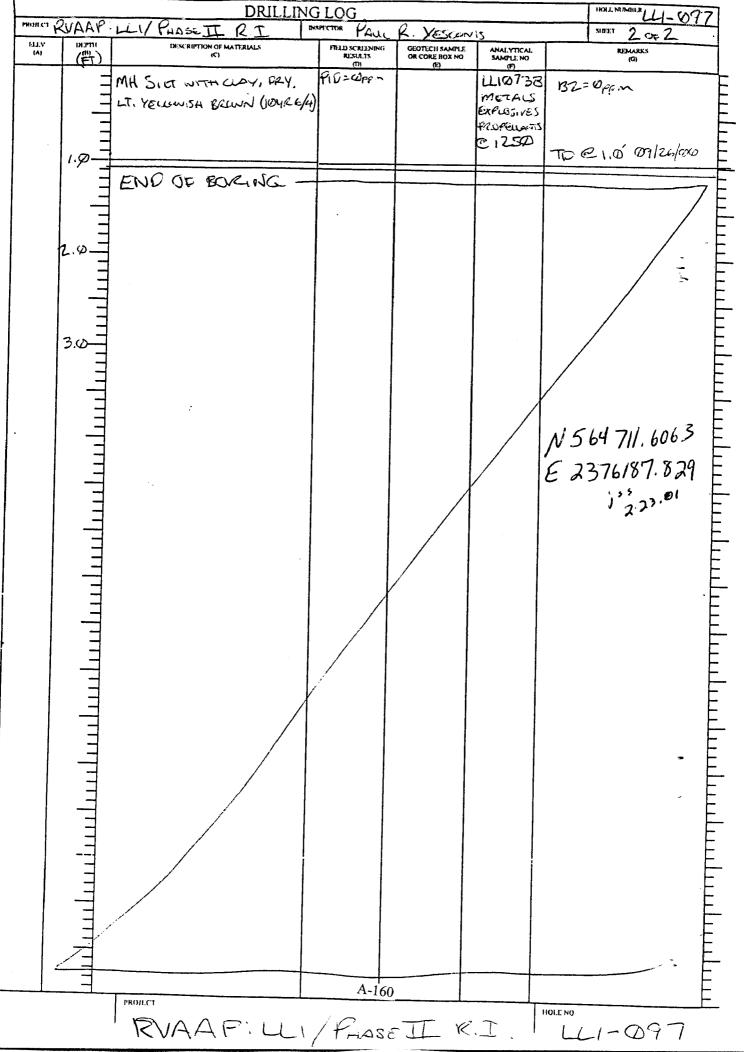
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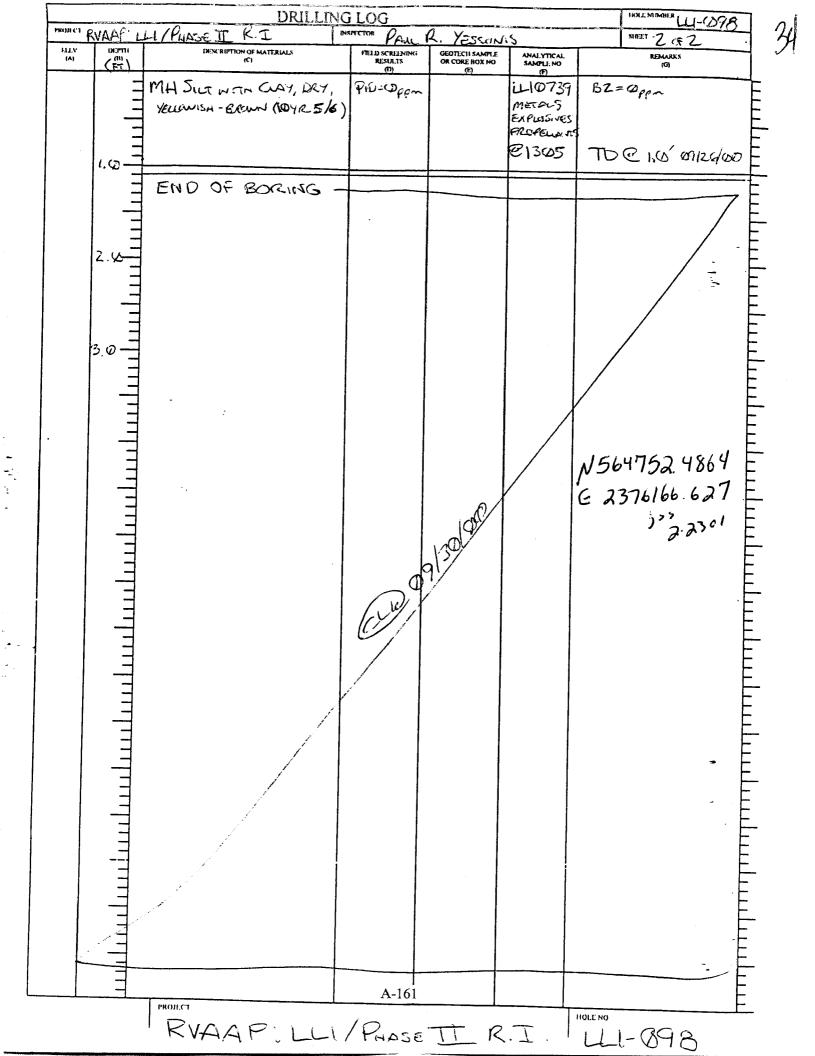
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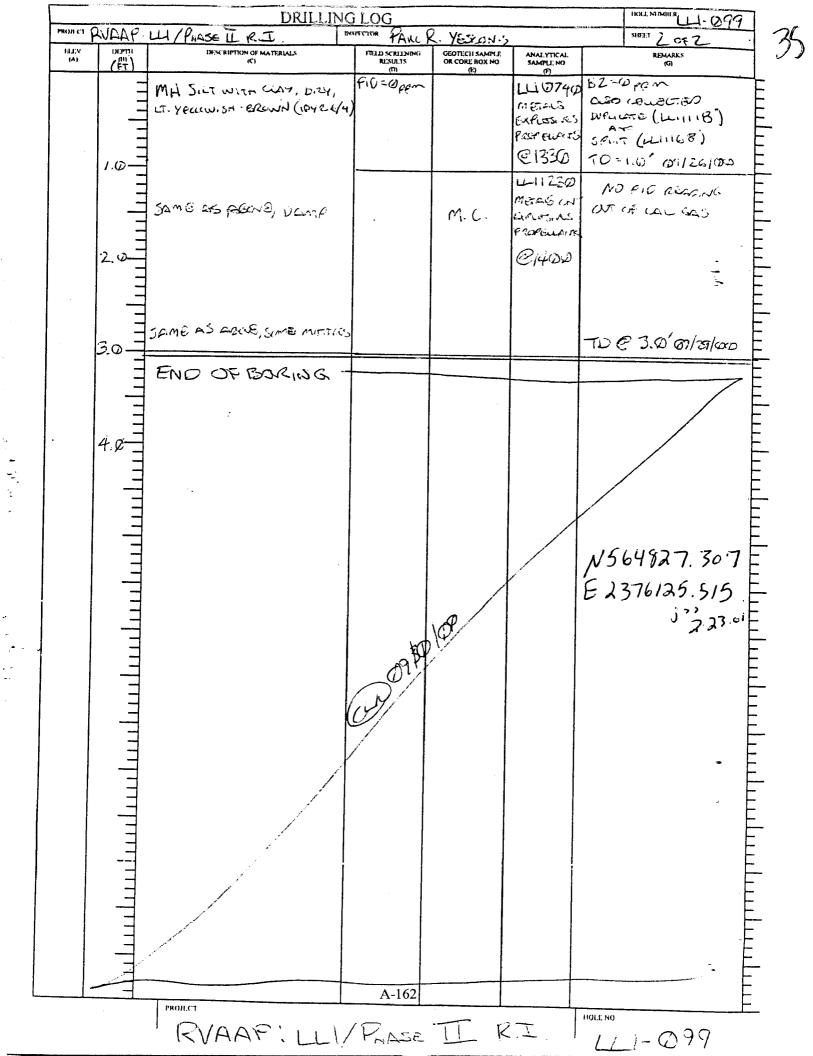


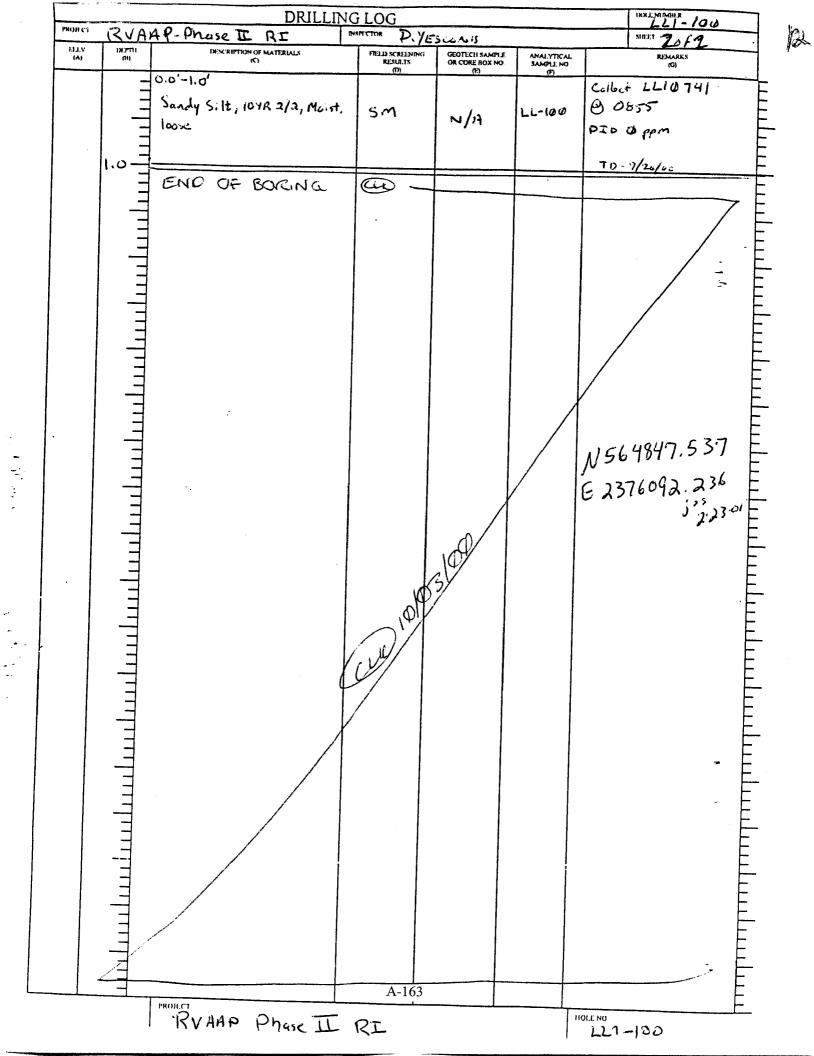
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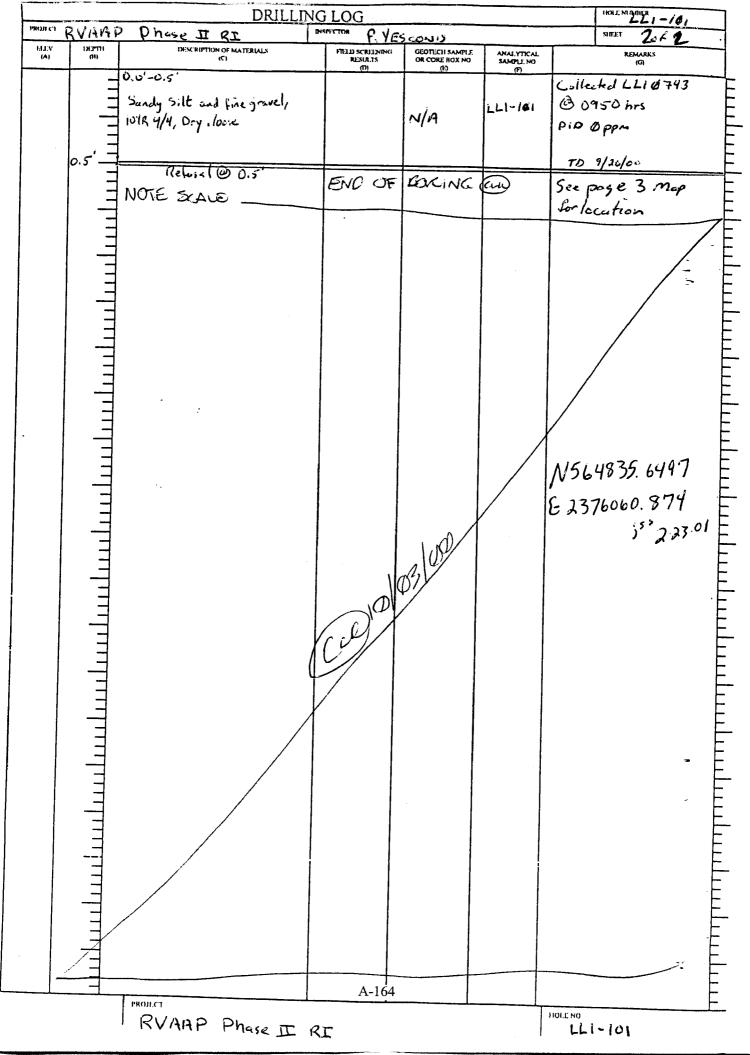






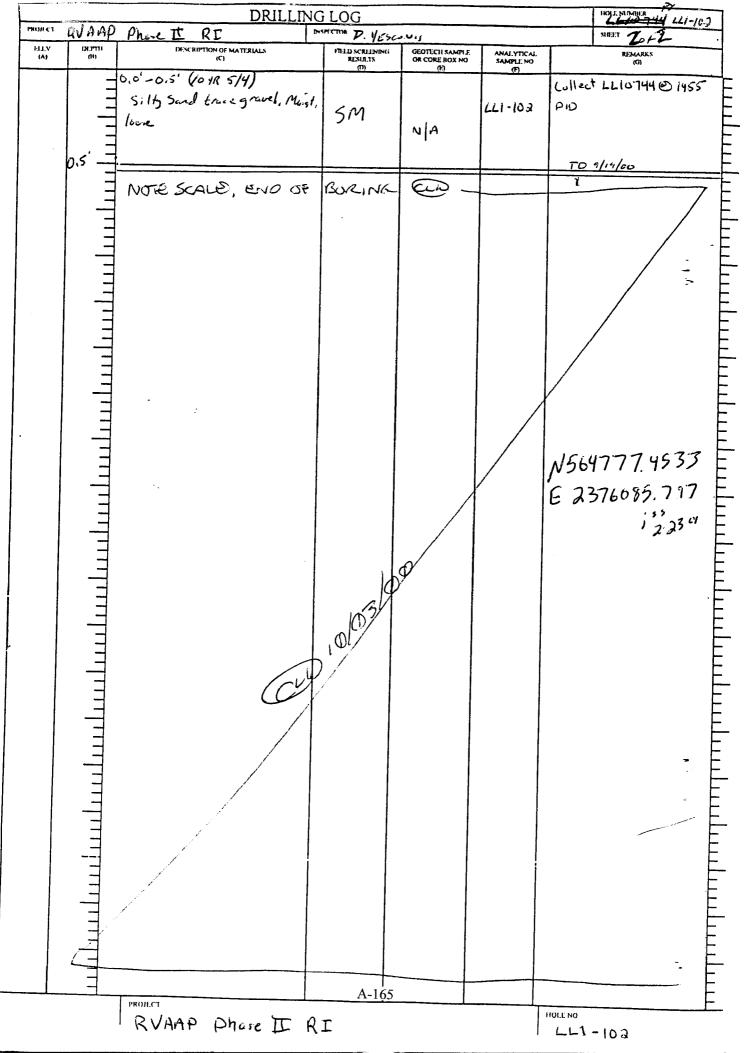






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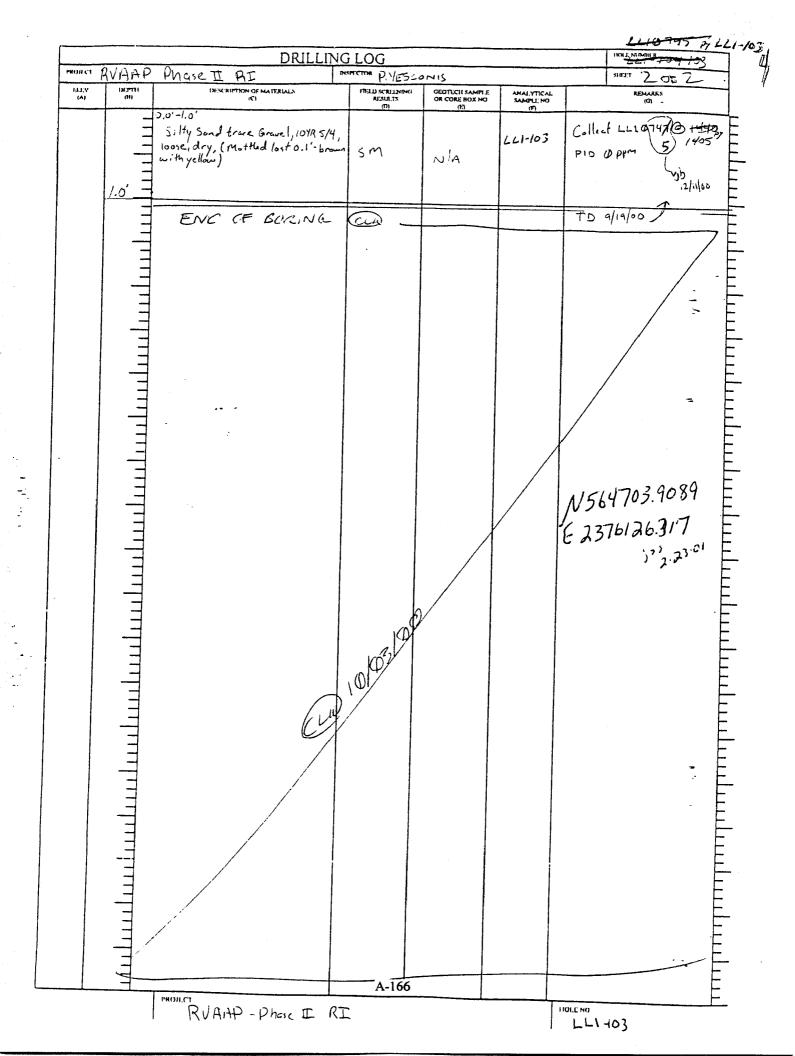


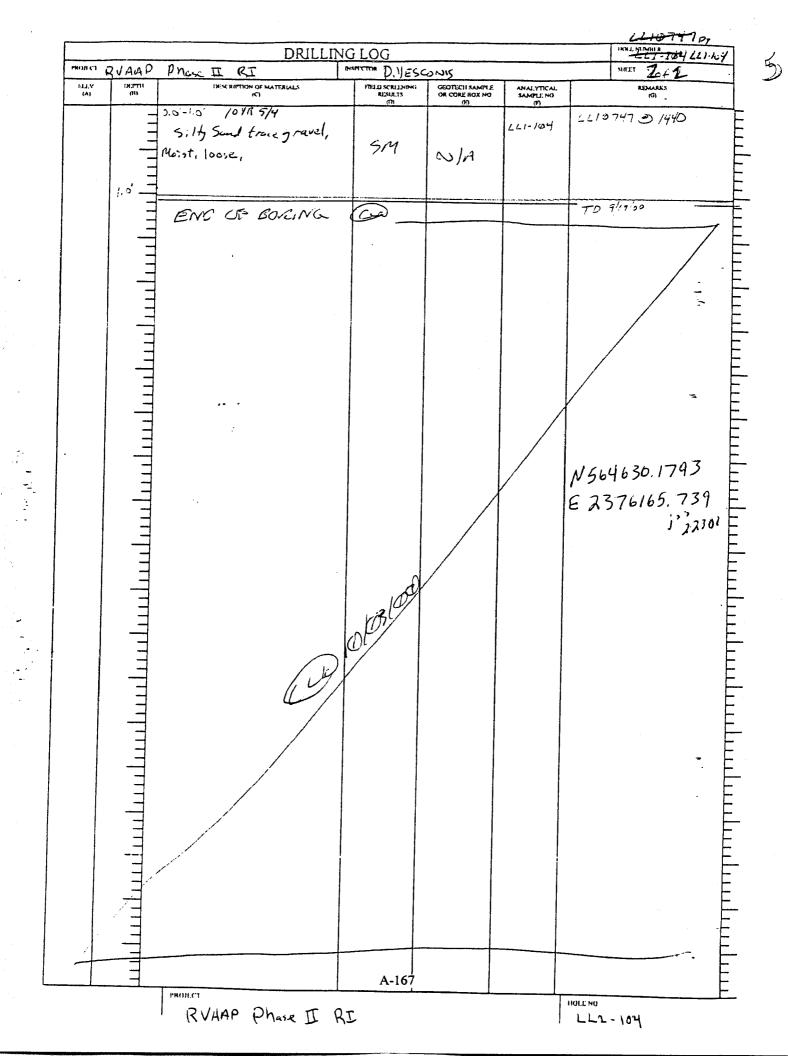
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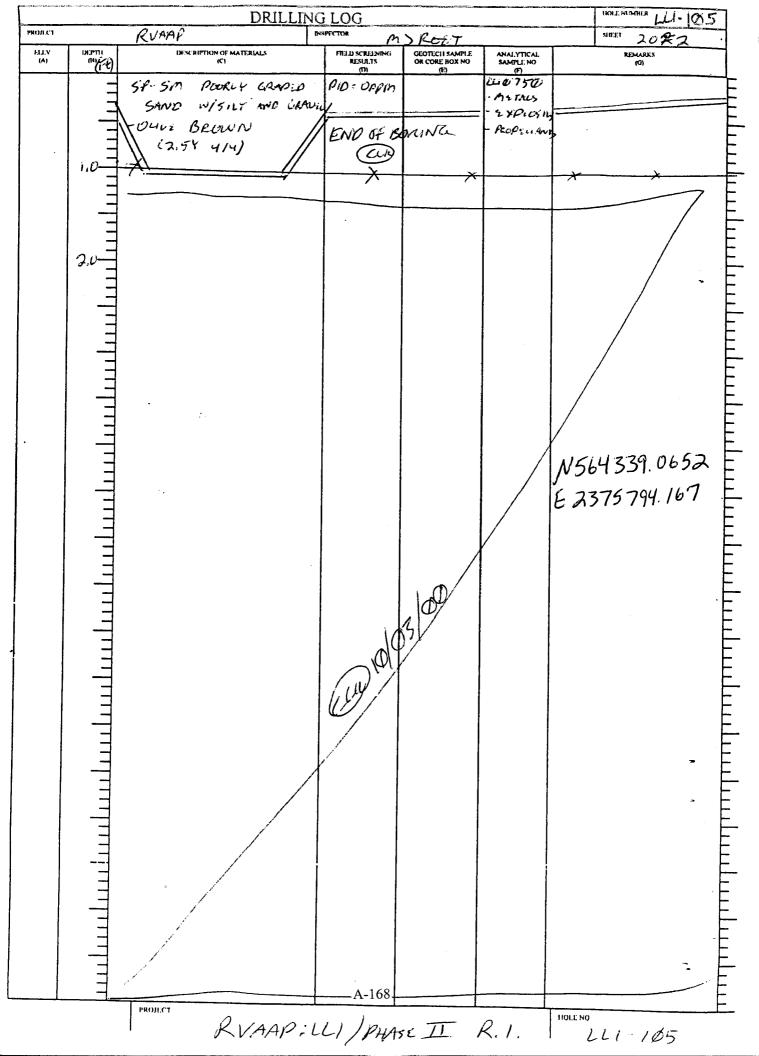
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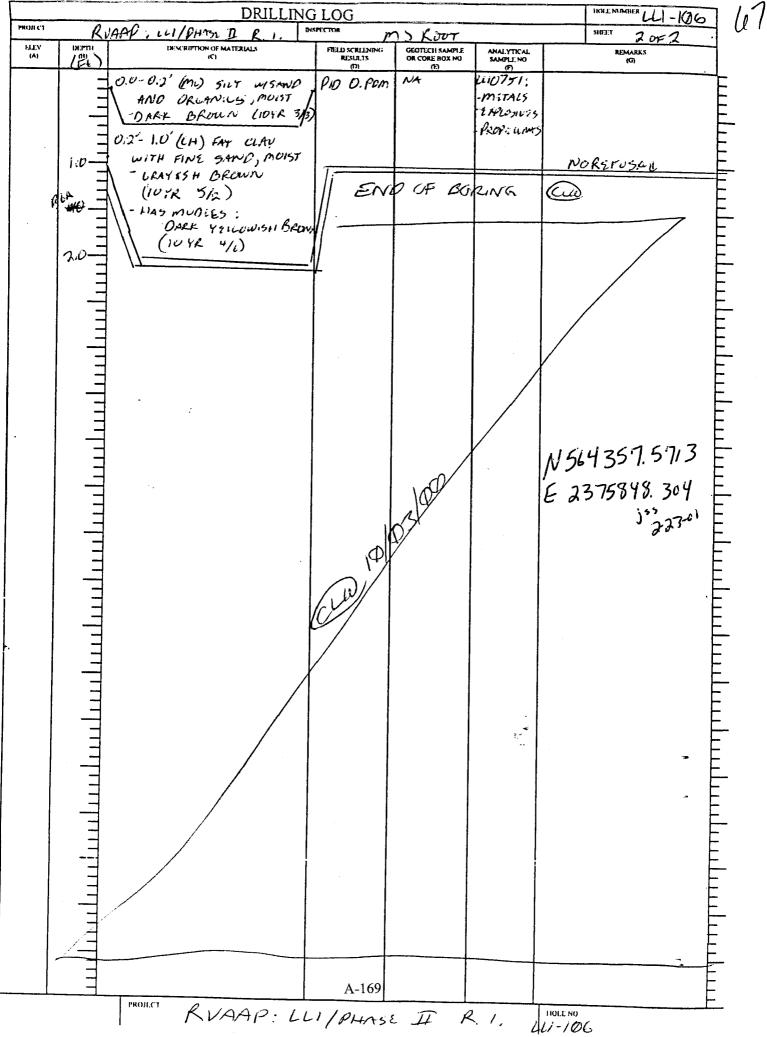
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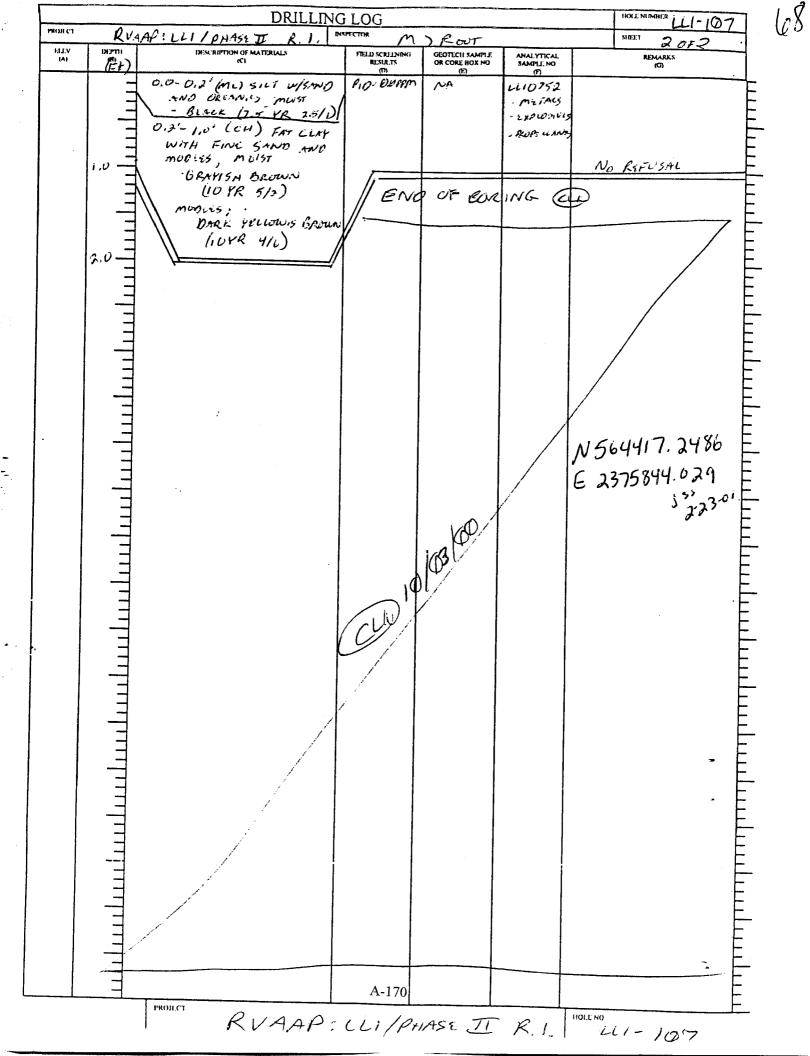


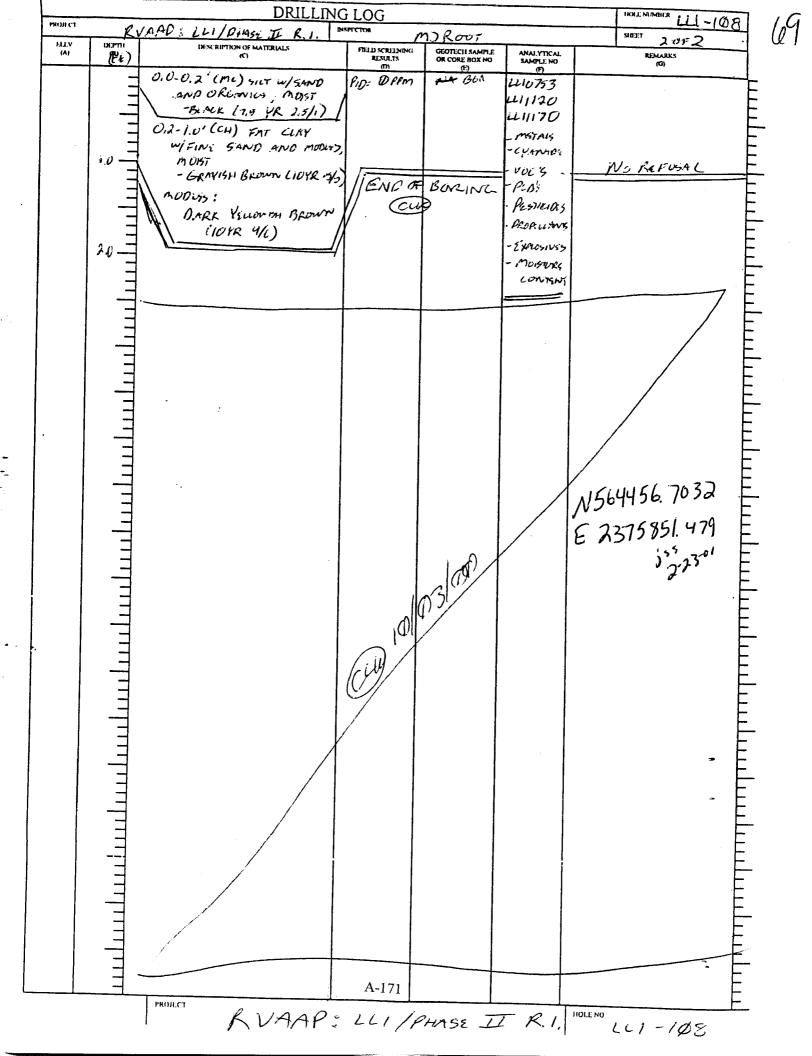


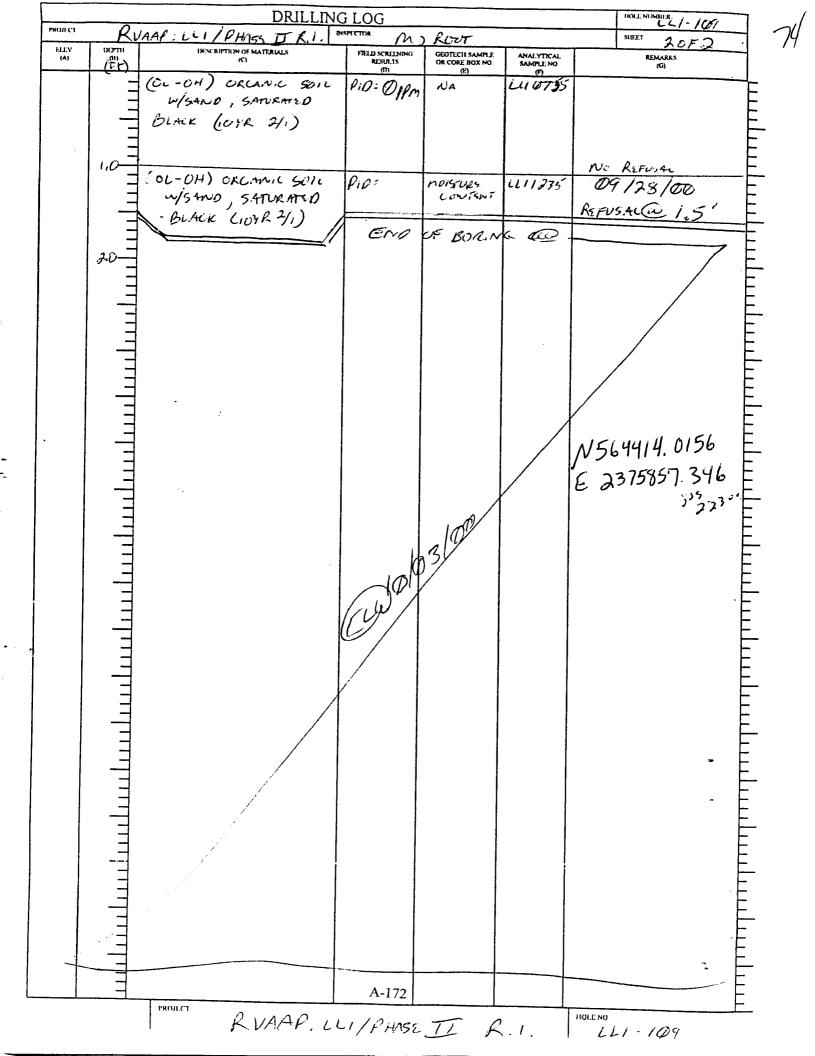
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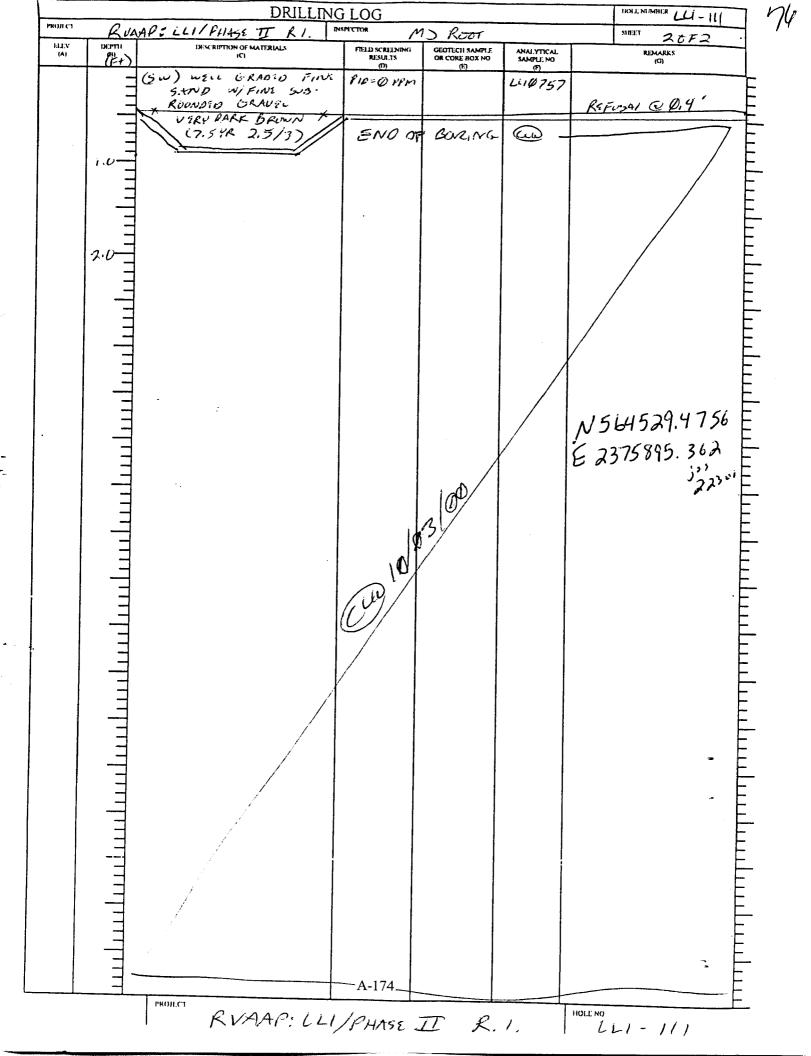


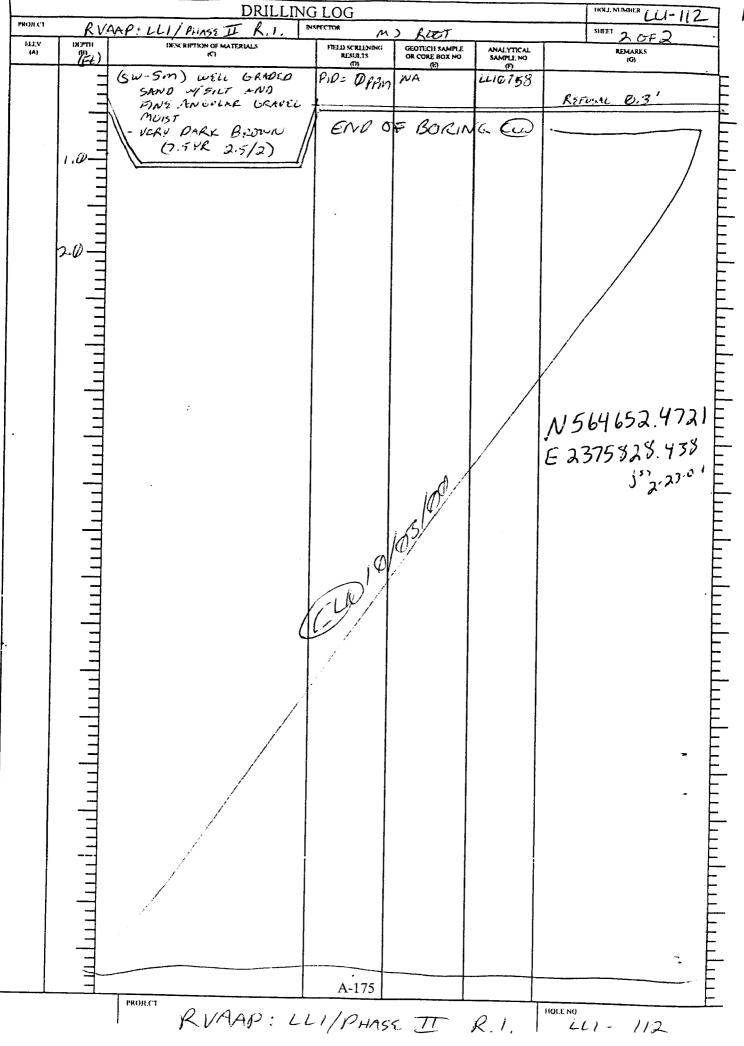




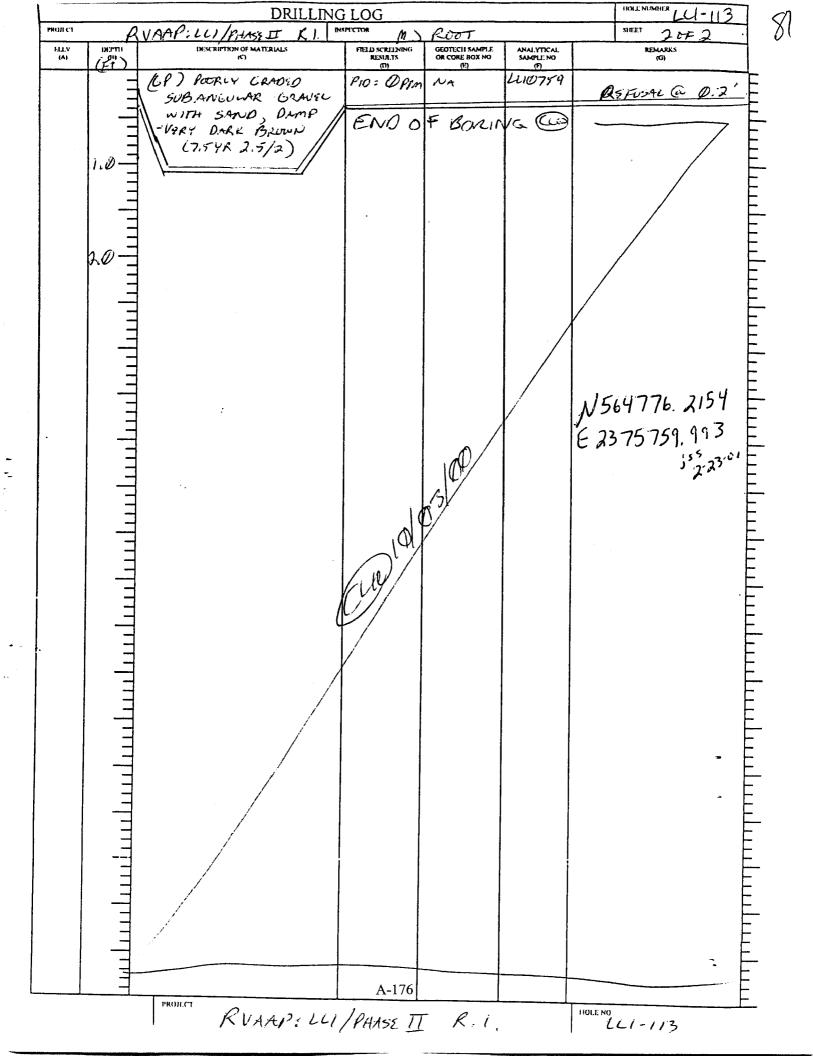
HOLE MITMOUR DRILLING LOG PROJECT RVAAP-LUI / PHASE TE INSPECTOR m R DOT SIGET CF2 117711 (1997) HLV (A) DESCRIPTION OF MATERIALS FTELD SCREENING RESULTS (D) GEOTECH SAMPLE OR CORE HOX NO (E) ANALYTICAL SAMPLE NO _____(F) REMARKS (G) 0.0' 0.5'(3F) POTAL : CRADED PiO: Offin L10756 NA SAND NIFINE Micrak GRAUSE, DAMP DARK BLOWN (104R 7/3) 0,5-1.0' (CH) FAT CLAY 1.0 WITH WUARSE SAND, NO REFUSAL OAMP Pam = MOISTURE 6611234 Ø9/23/ØP BROWN (IDYR 5/3) CONTRACT (CH) FAT CLAP W/CUMPSY SAND, REFUSAL@ 2.0'TD 2.0 DAMP - BROWN (101R 5/3) ENC OF BOXING CO N564491.9733 E 2375913.262 12223-01 Cup 10/03/00 A-173 PROJECT HOLE NO RVAAP: LLI/PHASE II R.1. LU1- 110

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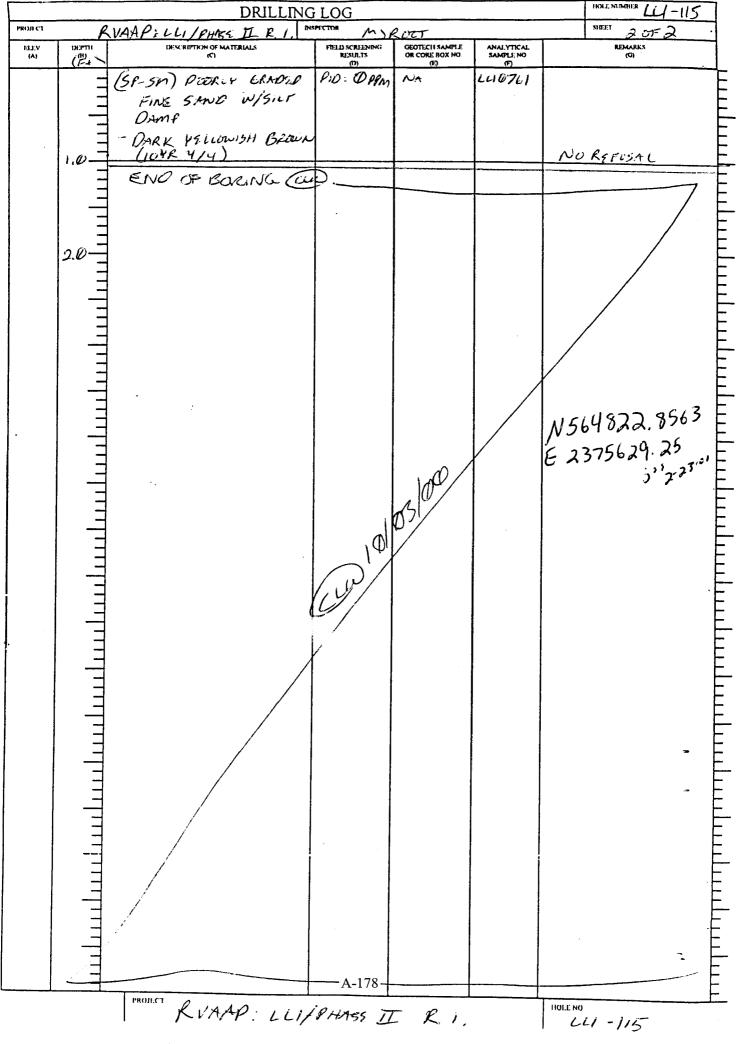


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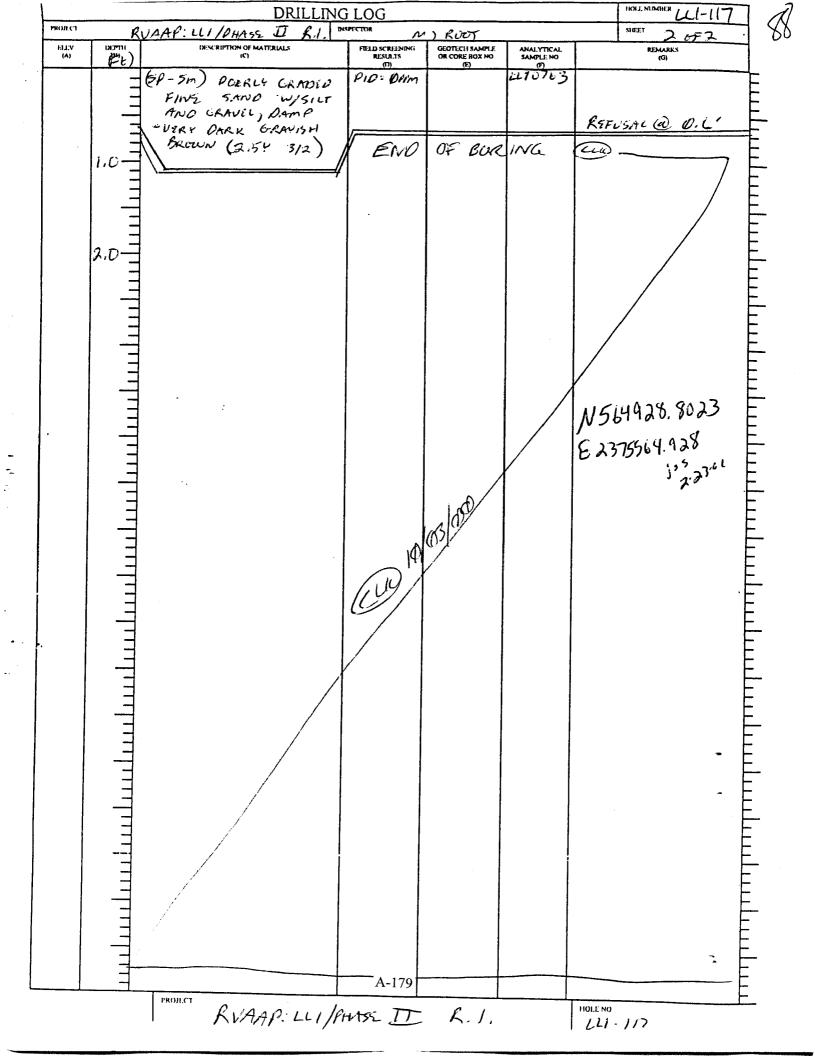


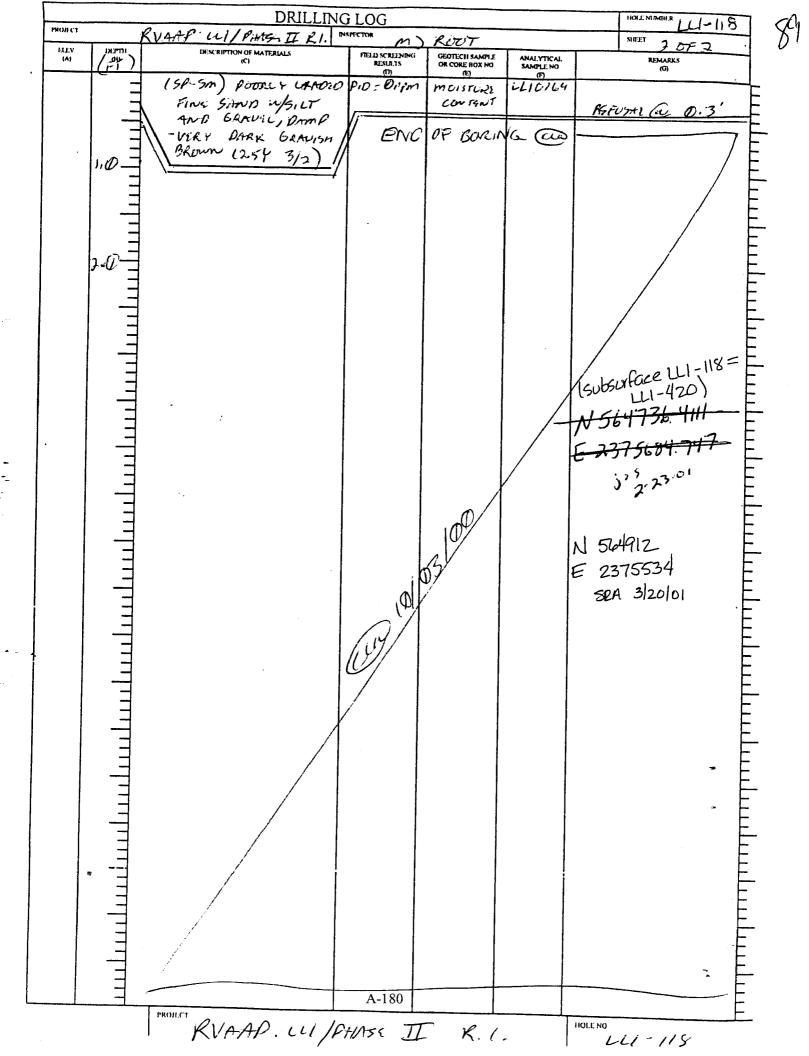
	DRILLING LOG						114 (	R
РКОЛ.СТ	RVAAP: LUI/PHAGE TE R.I. INSPECTOR MSRCCT				SUPET ZOF		0	
ELEV (A)		THESCRIPTION OF MATERIALS (C)	FTELD SCRUENING RUSULTS (D)	GEOTECH SAMPLE OR CORE BOX NO (E)	ANALYTICAL SAMPLE NO	REMARKS (G)		
		(CH) FINE SAND: FAT	PID= OFPM	NA	110760		E	
		CLAY WITH FINE ROUNDID ERAULL	A			REFUSAL @ Q	) <u>.4'</u>	
		Brown (107R 4/3)	END 0	P BORIN	6 Cu			
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PROJECT RVAAP: LLI/PHASS IT R.I. HOLENO					HOLENO			
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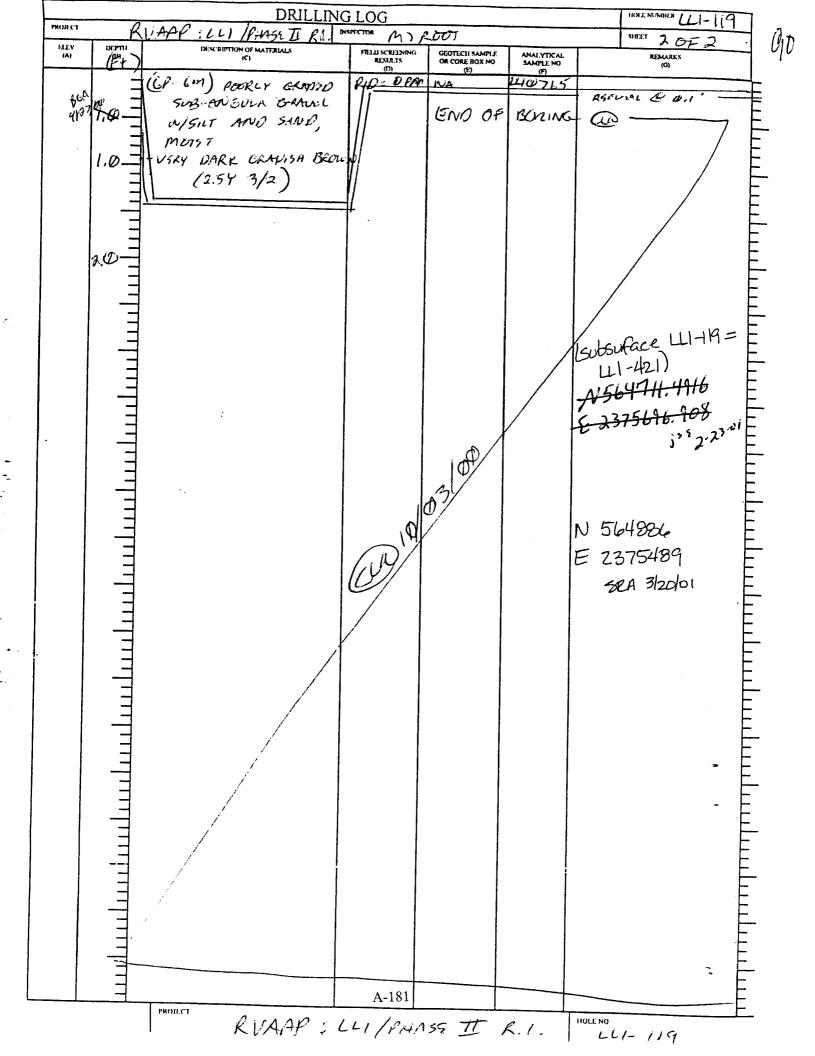
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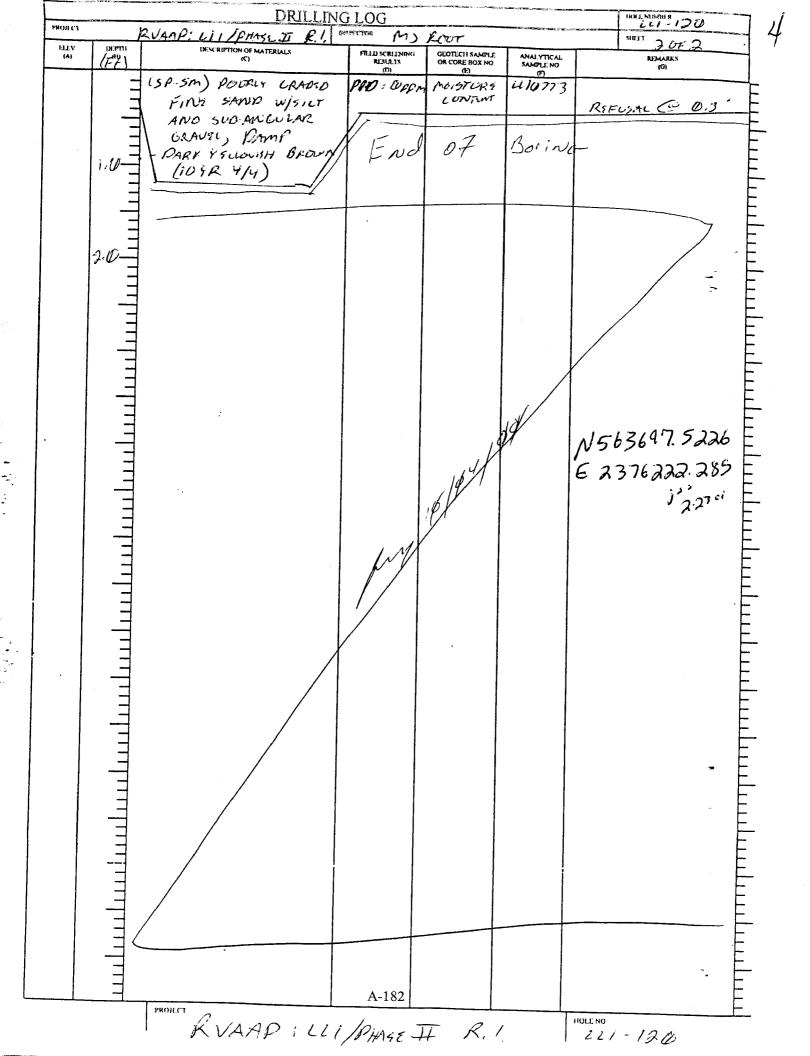


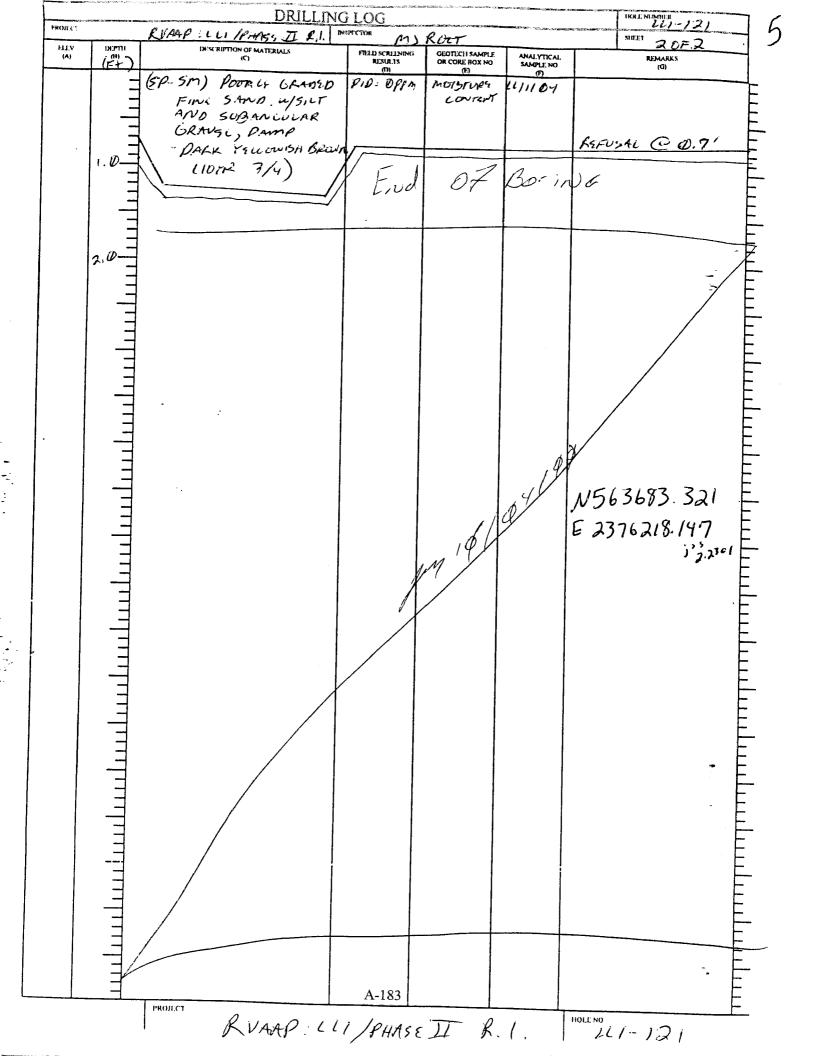
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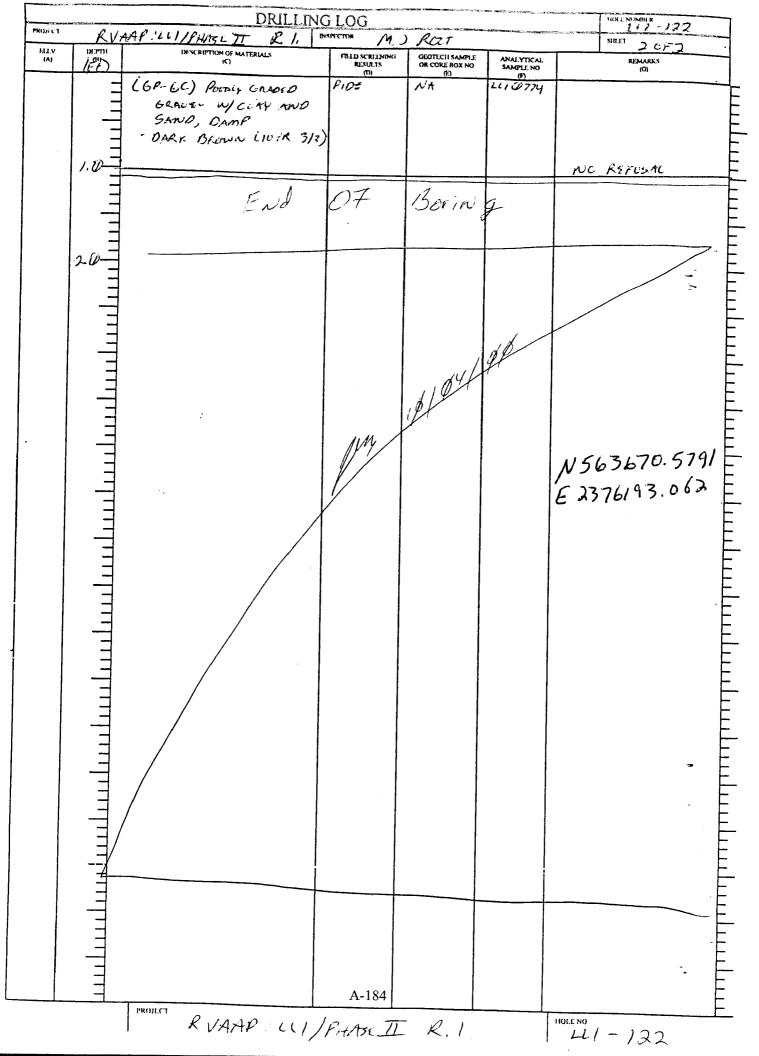








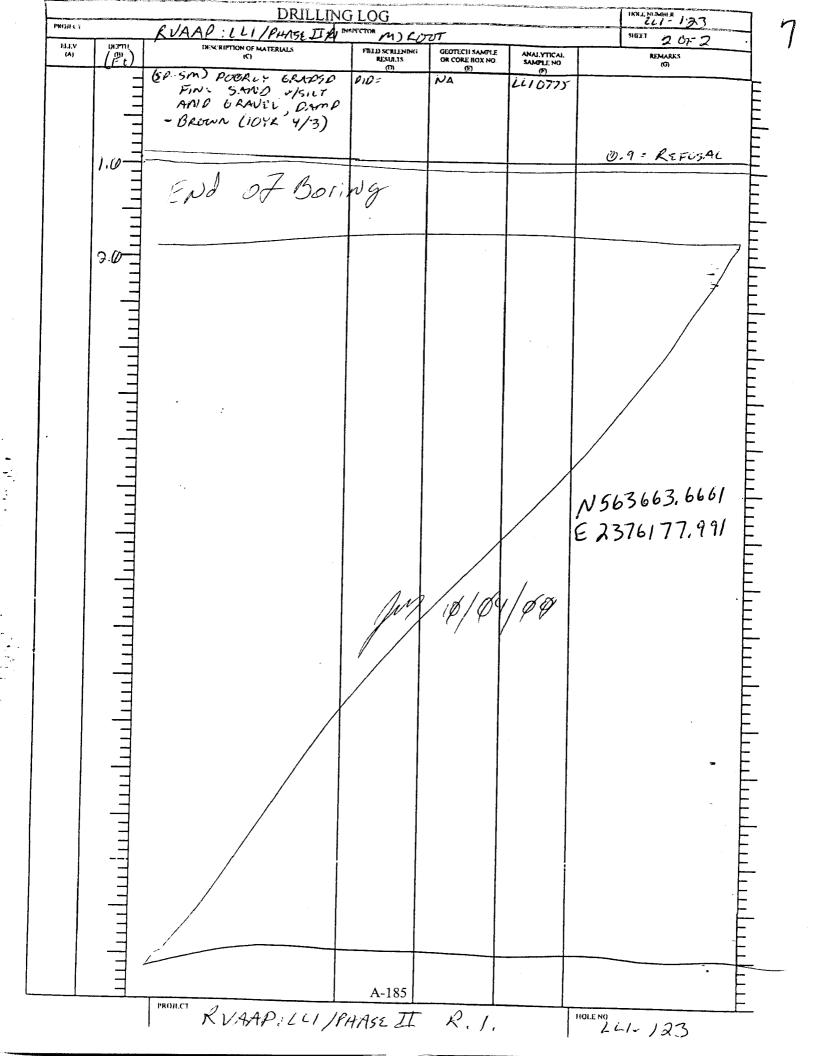


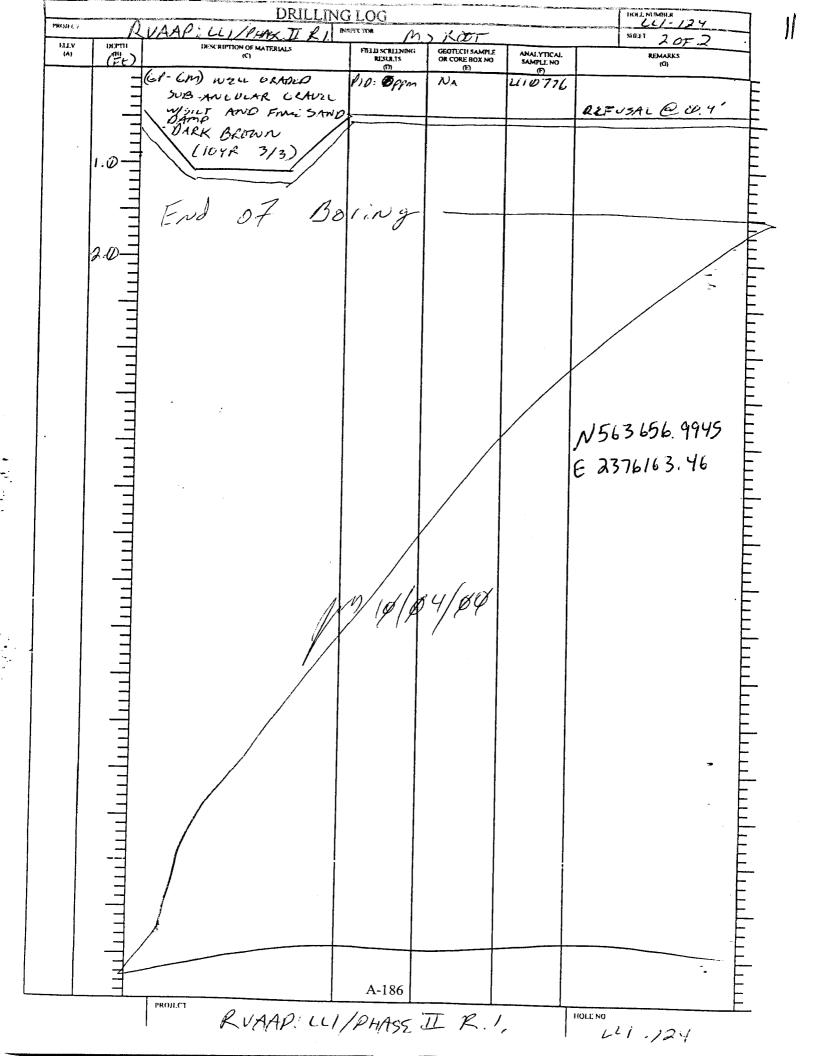


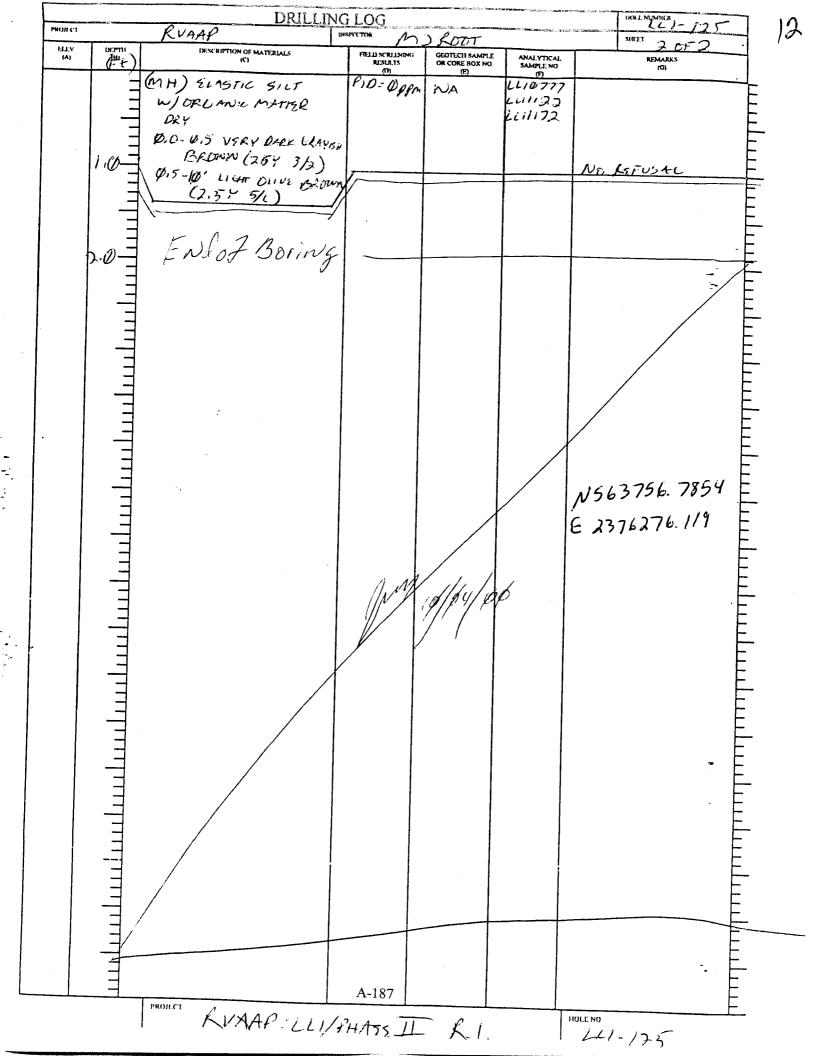
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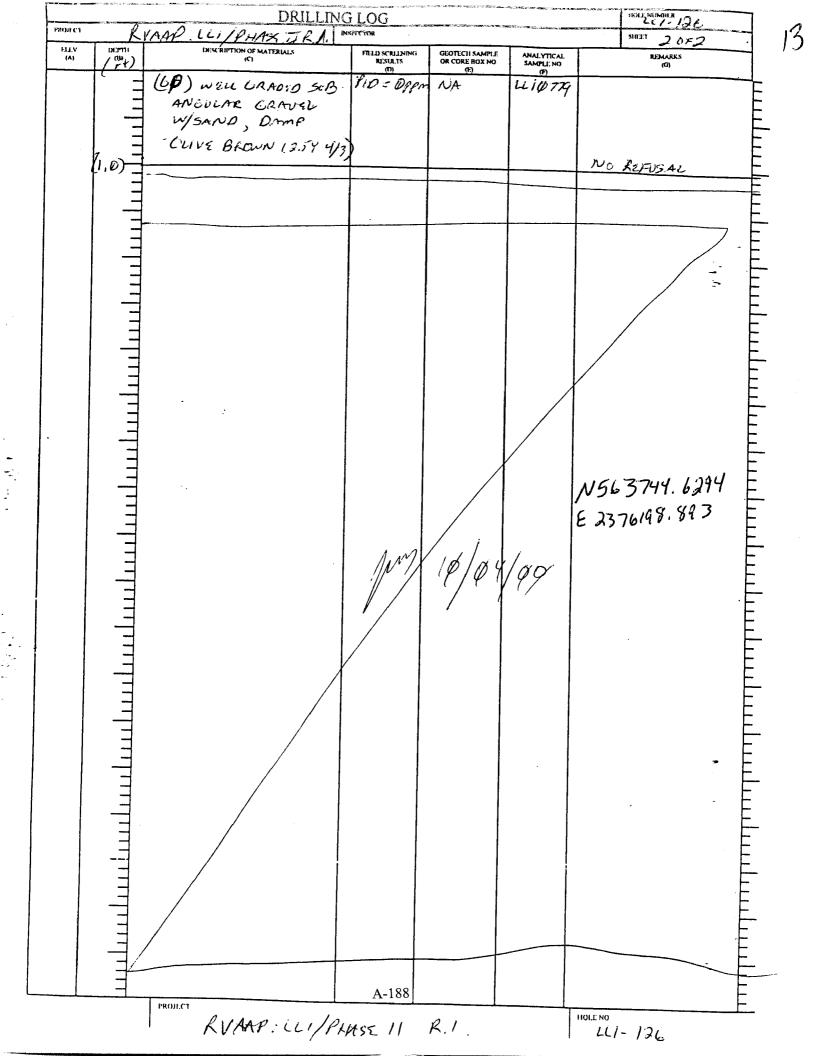
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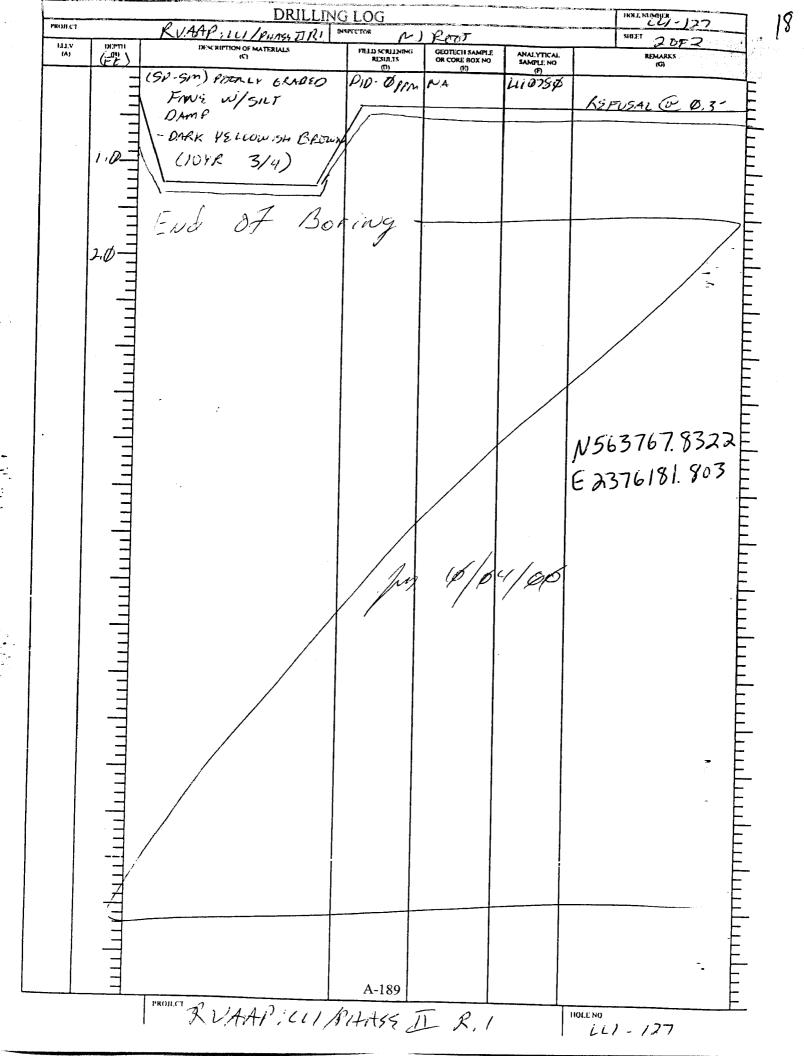
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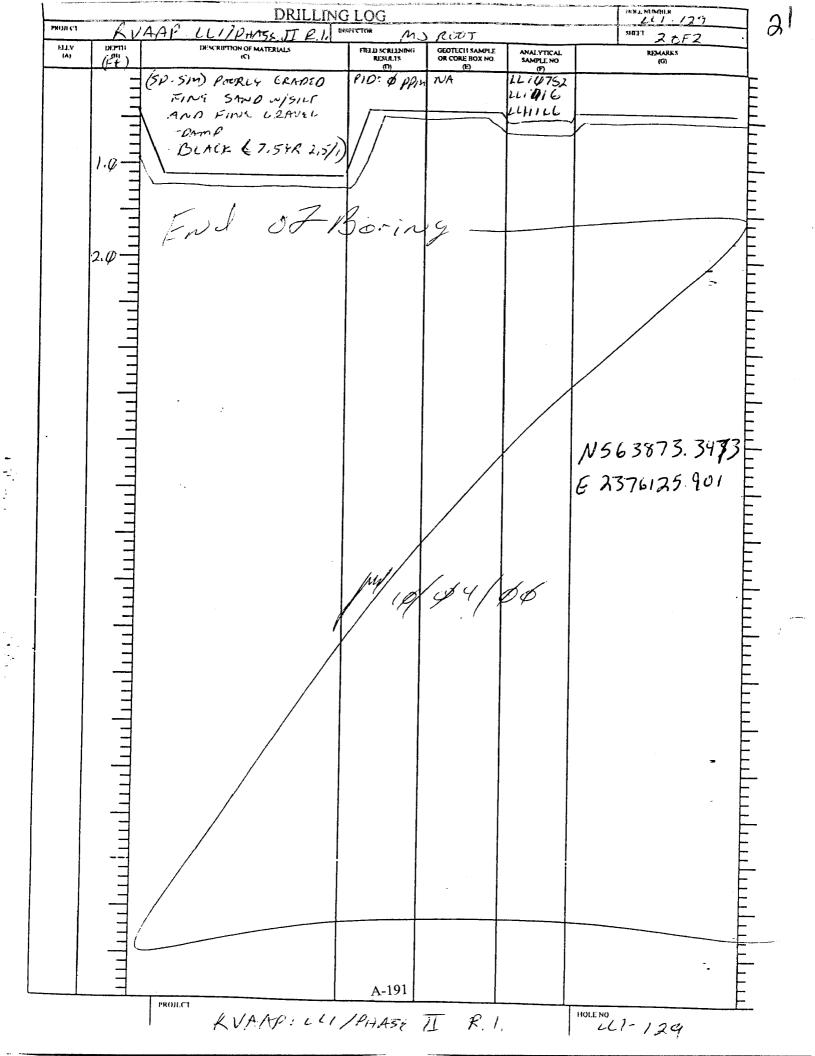




DRILLING LOG CC1- 128 RVAAP: LLI/SHASSTIFA SHEET 2 PROMICE INSPECTOR MS らっざ OF ELLV (A) (Ft) DESCRIPTION OF MATERIALS FTELD SCREENING RESULTS (D) GEOTECH SAMPLE OR CORE BOX NO. (E) ANALYTICAL SAMPLE NO REMARKS (G) (5p-sm) POTELY GRAPIP PiD : Oppm 111 \$ 731 NA KIFUSAL Q Q. 3' FINE SAND WISILT AND FME GRAVEL -DAMP · VERY DARK BROWN 1.0 (OYR AV2) Boring 07 End 2.0 <u>mhunhunhunhunhunhun</u> N563844.4669 E 2376140.686 10 -, A-190 РВОЛ.СТ HOLE NO RUAAPI 221/PHASS ET R. 1. 41-123

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DRILLING LOG HHAMMANIA 130 24 RVAAD: (LI/PHASE PROJECT R.1. DISPICTOR cm ROOT SIDEET 20F2 (Ft) HJ,V (A) DESCRIPTION OF MATERIALS FTELD SCRILLNING RESULTS (1) GEOTECH SAMPLE OR CORE BOX NO (F) ANALYTICAL SAMPLE NO REMARKS (G) ወ (SP-SIM) PODELL ORADIN PID = D FHA NA 11/0783 24/117/ FINCE SAND W/SILT AND ANCOUNT CRAVE REFUSAL @ 0,2 (11121 - DAMP - UGRY DARK ORAYISH 1.0-BROWN (25× 3/2) Boring ENd 07 2.0 N563944.9003 E 2376087.818 \$ \$ \$ 4 B A-192 РКОЛ.СТ RVAAP CLIPHASE I R. 1. HOLE NO LLI-130

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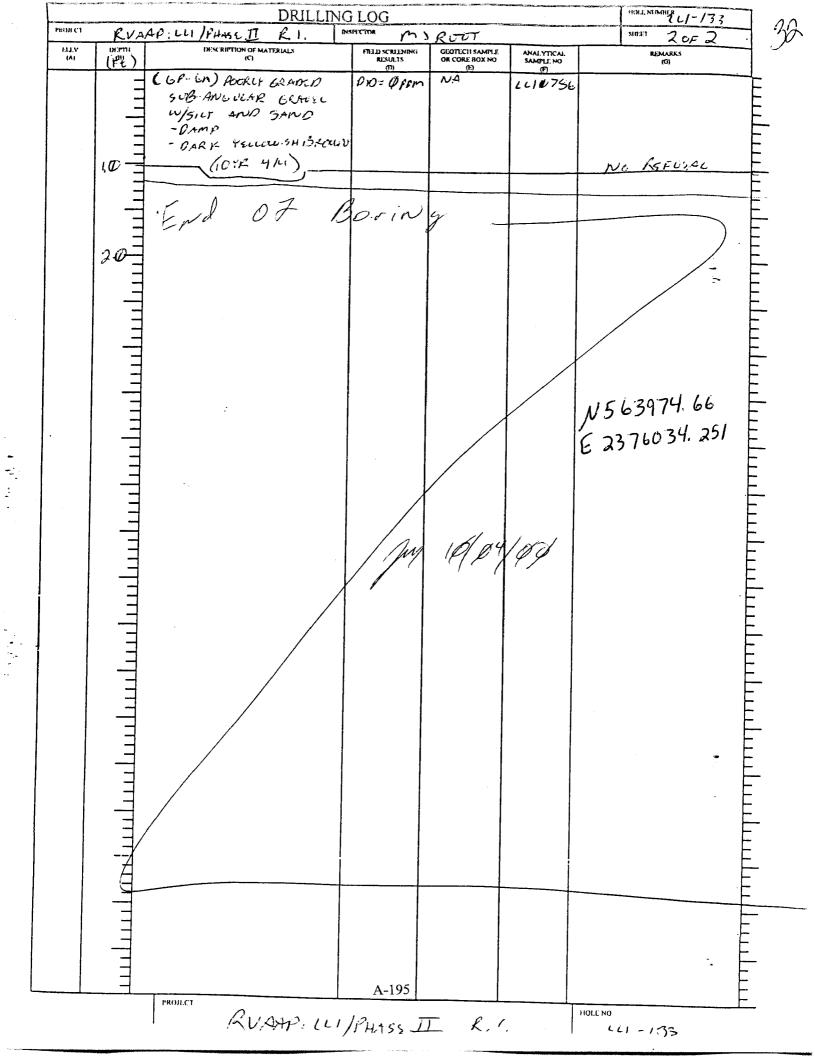
16X1. NOMINIA 131 DRILLING LOG **РКОЛ СЗ** RVAAP INSPECTOR ROUT SERVET 2OF2 (-2) ELLIV (A) DESCRIPTION OF MATERIALS FTELD SCIELLNING RUSULTS (T) GEOTECH SAMPLE OR CORE BOX NO. (F) REMARKS (G) ANALYTICAL SAMPLE NO **(D**) (SP-SM) POORLY L-AFPED PID: DIFM 2116794 NA RSFU:AL @ 0.2' FINE SAWE W/SILT ANO LARGE SUB BOUND GRAVIL, DAMP DARK YELLOW ISH BEDRY 1.0. (HP, YR 4/6) End of Boring 2.0 -N5639744983 E 2376060.367 iø/ø 4/øø A-193 PROJLCT RVAAP: LUI PHASE 11 R.1. HOLE NO 11-13\$

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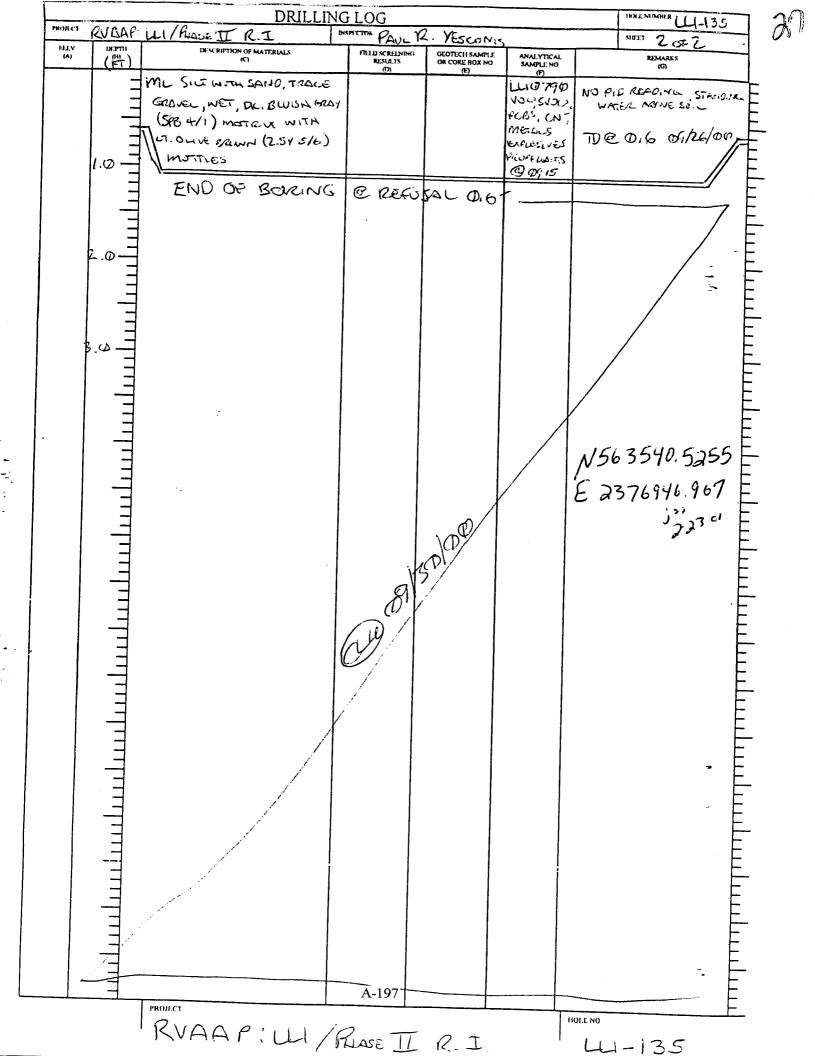
1KH 1 MINUN - 1 32 DRILLING LOG 28 PROMICI VAAP **MSPICTOR** MUEL, 2 OF 2 In t DESCRIPTION OF MATERIALS HLLV (A) GEOTECH SAMPLE OR CORE BOX NO. (E) FIGLE SCREENING RESULTS ANALYTICAL SAMPLE NO REMARKS (G) (TH PID: Ogfm NA 0.0 -0.2 (Sp. Sin) POURLY 6610755 GRADID USRY FINC SAND WISILT AND ORCHMC MATTIR DATAP -BLACK (INTR 21,) 1.0-NO REFUSAL 0.2-1.0' (CL) LEAN CLAY (DRY) - DARK YELLOWISH GROU (10YR 4/4) 2.0 End OF Boring N563989.0796 8 2376059.818 10/04/00 A-194 РКОИ.СТ RVAAP: UN/PHASE IT R. 1 HOLENO 41-132

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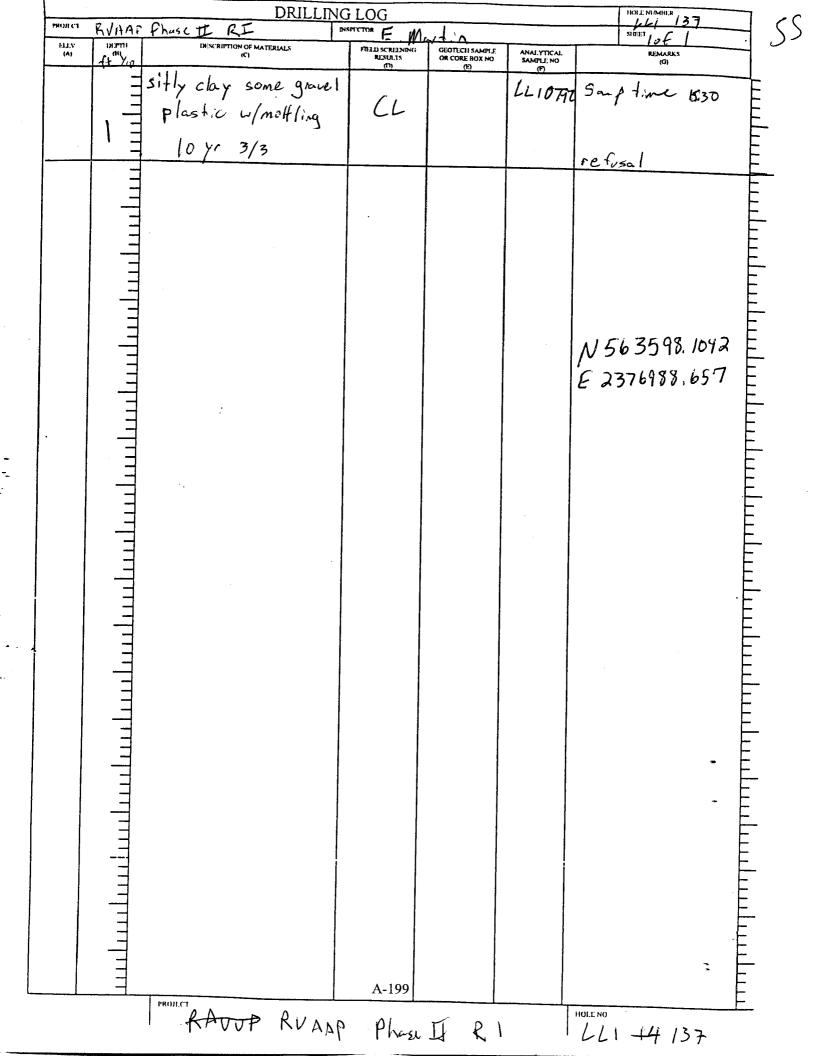


DRILLING LOG IREAL NUMBER 33 PROFICI RUAAP LLI PANSETT R.I. INSPECTOR M)REDT SHEET 2 CF2 (E)-ELL.V (A) DESCRIPTION OF MATERIALS FTELD SCRULINING RESULTS (D) GEOTECH SAMPLE OR CORE BOX NO (E) ANALYTICAL SAMPLENO (F) LLIØ757 REMARKS (G) (Sp-sm) POURLY GRADID N.A PID: OPPIN FINE SAND WISHT AND SUB ANEUMAR GRAVEL (PAMP) REFUSAL G. D.L - DARK YALLOWISH BREE (10 YK 3/4) i,D-END OF Boring N 56 3963 8884 E 2376011.79 10/04/00 IM A-196 PROJECT RUMAP . LUI / PHASE II R. 1. HOLE NO L11-134

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LLI- 136 DRILLING LOG lec **РКОЛ СТ** INSPECTOR SIRET 1 OF' F Maiti HLLV (A) REPERCI GEOTECH SAMPLE OR CORE BOX NO (E) DESCRIPTION OF MATERIALS FTELD SCREENING RESULTS (D) ANALYTICAL SAMPLE NO REMARKS (G) (C) EL1-0791 Silty clay wisome granel weatherd rock at refusal C, g of 1 for mapping location see p 52 CL .8 -10 yr 3/3 10 yR 6/8 in weathed gold sandstone N 563563 E 2376955 12.23.01 7 A-198 PROJECT HOLE NO LLI - 136 RUAAP Phase II KI



DRILLING LOG						INTEL NITHAN 138	S SPA 171
ELLN (A)		Phase II RI INEXCRIPTION OF MATERIALS	FIELD SCRILENING RUSULTS	GEOTLICII SAMPLE OR CORE BOX NO.		SIGET 1 S. F 1 REMARKS	3 3 10 /
			(1)	<u>(E)</u>	ANALYTICAL SAMPLE NO (F)	(G)	
		silty chy plastic some gravel	PID = 0.0pp		L40793	10 10 fusal samp time 14:10	E
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PROJECT RVAAP Phis II						LLI- 138	

	DRILLING LOG						10
РИОЛ СТ БЦ.У	RVHAT PRAZE IL NI					siner 2:5+1 .	$\left( \partial \right)$
(A)	(1) 1/ 2	(C)	FTELD SCRIEDNING RESULTS (D)	GEOTECH SAMPLE OR CORE HOX NO. (E)	ANALYTICAL SAMPLE NO	REMARKS (G)	Q
		Silty clay lege gravel plastic 10 yr 313				samp time 11:50 refusal @.6 of 144	
		plustic 10 yr 313	CL			refusel@.6 of 144	
							- 
						N 56 3546. 8061	-
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