APPENDIX D
EXAMPLES OF DRILLING LOGS

D-1. General. This appendix contains seven examples of drilling logs, five for overburden drilling and two for rock coring. These logs conform to the guidance presented in EM 1110-1-1806, "Presenting Subsurface Information in Contract Plans and Specifications," and in Chapter 4 of this manual. The examples are not meant to cover all possible subsurface conditions which may be encountered during field investigation, but are presented to give direction to the minimum acceptable input to completing drilling logs for the most common drilling activities.

D-2. Preparation of Drilling Logs. Drilling logs will be made of each boring. A similar log will be prepared for each excavation which is constructed for the purpose of characterizing subsurface materials and geologic conditions. The only approved drilling log form for borings is ENG FORM 1836 (March 1971). This form may be used as a continuation sheet or, at the option of the user, ENG FORM 1836-A (June 1967) may be used. All logs will be filled out in the inspector's own handwriting.

a. Scale. A scale of 1 in. equals 2 ft or larger will be used. A smaller scale may be used where, for example, the boring is advanced without sampling or logging, the upper portion of the log would represent water, or the boring was made to identify some geologic horizon such as top of rock. Other similar exceptions would be allowable.

b. Heading. All logs will have the pertinent division, installation, hole number, project identification, and page number entered on all log sheets. Items 1 through 19, ENG FORM 1836 will be completed to the fullest extent possible as indicated in the seven examples. Boring numbers will be consecutive for each project. The boring numbers will be proceeded by letter symbols which will identify the method of drilling. These letters are as follows:

A - Auger (Hand or Power)

C - Core

D - Drive

P - Probe

T - Test Pit

U - Undisturbed (Hydraulic or Rotary)

Additional letters and numbers for boring identification may be used at the user's discretion. Inclusion of the graphic soil symbol in column c is optional.

c. Examples. The drilling log examples, Figures D-1 through D-7, are described as follows:

Figure D-1: Overburden, disturbed, standard penetration test and auger.

Figure D-2: Overburden, disturbed, drive.

Figure D-3: Overburden, disturbed, auger.

Figure D-4: Overburden, undisturbed, Denison.

Figure D-5: Overburden, undisturbed, Shelby and auger.

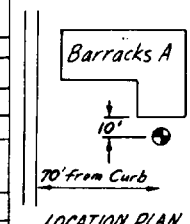
Figure D-6: Bedrock, disturbed, SPT and core.

Figure D-7: Bedrock, core.

Hole No. AD-6

DRILLING LOG	DIVISION SAD	INSTALLATION SAS	SHEET 1 OF 2 SHEETS
1. PROJECT Raymond AFB, S.C. Airmens Dorm		10. SIZE AND TYPE OF BIT 1 3/8" I.D. Splitspoon	
2. LOCATION (Coordinates or Station) See Remarks		11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MSL (NVGD)	
3. DRILLING AGENCY SAS		12. MANUFACTURER'S DESIGNATION OF DRILL Failing 314	
4. HOLE NO. (As shown on drawing title and file number) AD-6		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED 26 Jars; UNDISTURBED	
5. NAME OF DRILLER S. Long		14. TOTAL NUMBER CORE BOXES –	
6. DIRECTION OF HOLE ☑ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.		15. ELEVATION GROUND WATER 17.5	
		16. DATE HOLE: STARTED 3 Apr 81; COMPLETED 4 Apr 81	
7. THICKNESS OF OVERBURDEN 30.0		17. ELEVATION TOP OF HOLE 25.5	
8. DEPTH DRILLED INTO ROCK 0		18. TOTAL CORE RECOVERY FOR BORING N/A %	
9. TOTAL DEPTH OF HOLE 30.0		19. SIGNATURE OF INSPECTOR Cindy Watson	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) Std. Pene. Test BLOWS g	
			(SM) Brown, Silty SAND Roots In Top 6".		NS	NS = No Sample	1
							2
					1		4
	2				NS		2
					2		5
23.0			(SP-SM) Light Brown, Poorly Graded, Silty SAND, Medium To Fine, Traces Of Shell, Moist.		3		6
					NS		3
	4				4		6
							9
					NS		4
19.9					5		8
	6		(SP) Light Brown, Poorly Graded SAND, Fine w/ Traces Of Shell.		6		10
					NS		3
					7		10
							12
▼ El 17.5	8				NS	▼ Encountered Water During Drilling With 5" Auger - Mixed Mud At 8' & Cleaned Boring With 4" Rock Bit	5
4/4/81			Light Gray		8		8
							13
					NS		6
15.5	10				9		7
			(OL) Dark Gray To Black, Organic SILT, Trace Sand, Strong Odor.		10		3
14.5					NS		1
			(OH) Black, Organic SILT, Lenses Of Clay, Strong Odor, Peaty.		11		2
	12						2
					NS		0
12.5					12		4
			(SM) Dark Gray, Silty SAND, Medium To Fine.		13		9
	14				NS		5
11.1					14		13
			(SP) Light Brown, Poorly Graded SAND, Fine.		15		18
					NS		8
	16				16		15
							18
					NS		6
					17		13
							22
	18				NS		8
7.0			(SP) Light Gray, Poorly Graded SAND, Medium To Coarse.		18		9
							10
	20				NS		7



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PROJECT Raymond AFB - Airmens Dorm | HOLE NO. AD-6

Figure D-1. Example drilling log, for auger boring in overburden with disturbed sampling and standard penetration tests (Continued)

Hole No. AD-6

DRILLING LOG	DIVISION SAD	INSTALLATION SAS	SHEET 2 OF 2 SHEETS

1. PROJECT Raymond AFB, Airmens Dorm	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station)	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) AD-6	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
5. NAME OF DRILLER	14. TOTAL NUMBER CORE BOXES
	15. ELEVATION GROUND WATER
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG FROM VERT.	16. DATE HOLE: STARTED / COMPLETED
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE 25.5
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING %
9. TOTAL DEPTH OF HOLE	19. SIGNATURE OF INSPECTOR Cindy Watson

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
			(SP) Light Gray, Poorly Graded SAND, Medium To Coarse.		19	15 19
					NS	6
	22				20	20 25
					NS	10
					21	20
2.0	24		Gravelly		22	25
1.0					NS	11
			(CL) Brownish Gray, Sandy CLAY, Stiff To Hard, Shelly, Moist.		23	15 30
	26				NS	10
					24	18 32
					NS	11
	28				25	15 26
					NS	8
-4.5	30				26	21 50
			Bottom Of Boring			

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PROJECT Raymond AFB, Airmens Dorm HOLE NO AD-6

Figure D-1. (Concluded)

Hole No. D-18

DRILLING LOG	DIVISION Missouri River	INSTALLATION Kansas City	SHEET 1 OF 5 SHEETS
1. PROJECT Grove Dam		10. SIZE AND TYPE OF BIT 3" Φ, Drive Barrell	
2. LOCATION (Coordinates or Station) 42+00 on ℄		11. DATUM FOR ELEVATION SHOWN (TBM or MSL) NGVD	
3. DRILLING AGENCY Kansas City Dist.		12. MANUFACTURER'S DESIGNATION OF DRILL Walker Neer Cable Tool	
4. HOLE NO. (As shown on drawing title and file number) D-18		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN	DISTURBED 48 Jars / UNDISTURBED
5. NAME OF DRILLER C. Brown		14. TOTAL NUMBER CORE BOXES	
6. DIRECTION OF HOLE ☑ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.		15. ELEVATION GROUND WATER 698.0	
		16. DATE HOLE	STARTED 6 Jan 78 / COMPLETED 12 Jan 78
7. THICKNESS OF OVERBURDEN 95.0		17. ELEVATION TOP OF HOLE 715.0	
8. DEPTH DRILLED INTO ROCK 0		18. TOTAL CORE RECOVERY FOR BORING N/A %	
9. TOTAL DEPTH OF HOLE 95.0 (El 620.0)		19. SIGNATURE OF INSPECTOR John Doe	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	~~BOX OR~~ SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
714.0			Asphalt and Base Course		1	Rec 2.0 15 Blows
	2		(CL) Tan, Lean CLAY, Enbankment Fill		2	Rec 2.0 16 Blows
	4				3	Rec 2.0 14 Blows
	6				4	Rec 2.0 18 Blows
	8				5	Rec 2.0 20 Blows
	10				6	Rec 1.9 Loss 0.1 14 Blows
	12				7	Rec 2.0 18 Blows
701.0	14		Slightly Sandy		8	Rec 2.0 Ream to 16.0' 22 Blows
	16				9	Rec 1.9 Loss 0.1 21 Blows
▼698.0± 12 Jan 78	18		Static Water Level After Completion Of Boring.		10	Rec 2.0 23 Blows
	20					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE (TRANSLUCENT) PROJECT HOLE NO. D-18

Figure D-2. Example drilling log (partial) for drive boring in overburden with disturbed sampling

Hole No. A-30

DRILLING LOG	DIVISION SWD	INSTALLATION SWT	SHEET 1 OF 1 SHEETS

1. PROJECT SR 9 Road Relocation Eufaula Lake	10. SIZE AND TYPE OF BIT 4 in. Square Auger
2. LOCATION (Coordinates or Station) Station 4+50, 50' Rt.	11. DATUM FOR ELEVATION SHOWN (TBM or MSL) NGVD
3. DRILLING AGENCY Tulsa Dist.	12. MANUFACTURER'S DESIGNATION OF DRILL CME-1200
4. HOLE NO. (As shown on drawing title and file number) A-30	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED 2; UNDISTURBED –
5. NAME OF DRILLER A. Jones	14. TOTAL NUMBER CORE BOXES –
6. DIRECTION OF HOLE ☑ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER Not Encountered
	16. DATE HOLE: STARTED 8-29-82; COMPLETED 8-29-82
7. THICKNESS OF OVERBURDEN 8.2	17. ELEVATION TOP OF HOLE 816.2
8. DEPTH DRILLED INTO ROCK –	18. TOTAL CORE RECOVERY FOR BORING – %
9. TOTAL DEPTH OF HOLE 8.2 (El 808.0)	19. SIGNATURE OF INSPECTOR Gene Smith

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	~~BOX OR~~ SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	1		(CL) Brown, Sandy Lean CLAY, Moist			Drilled With 4 in. Square Auger. No Free Water Encountered Refusal to Auger At 8.2', Hydraulic Pressure 100 PSI With No Penetration For 2 Min. At Refusal. Drilled 0-8' In 4 Min. Drill rate 2'/Min. Drill Action Smooth At 100 RPM
	2				Jar 1	
813.2	3		(ML) Tan, Clayey, SILT, Slightly Plastic			
	4					
	5		Micaceous, Slightly Damp		Jar 2	
	6					
	7					
808.0	8					
	9		Refusal To Auger @ 8.2'			

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE (TRANSLUCENT)

PROJECT SR9 Road Relocation Eufaula Lake | HOLE NO A-30

Figure D-3. Example drilling log for auger boring in overburden with disturbed samples

Hole No. U-1

DRILLING LOG	DIVISION SAD	INSTALLATION SAS	SHEET 1 OF 1 SHEETS

1. PROJECT Richard B. Russell Dam	10. SIZE AND TYPE OF BIT 6 in. Denison
2. LOCATION (Coordinates or Station) X: 312,457 Y: 123,456	11. DATUM FOR ELEVATION SHOWN (TBM or MSL) NGVD
3. DRILLING AGENCY SAS	12. MANUFACTURER'S DESIGNATION OF DRILL Failing 1500
4. HOLE NO. (As shown on drawing title and file number) U-1	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED – ; UNDISTURBED 17
5. NAME OF DRILLER J. Smith	14. TOTAL NUMBER CORE BOXES –
6. DIRECTION OF HOLE ☑ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER See Remarks
	16. DATE HOLE STARTED 3-16-75 COMPLETED 3-16-75
7. THICKNESS OF OVERBURDEN 36.2	17. ELEVATION TOP OF HOLE 376.5
8. DEPTH DRILLED INTO ROCK 0	18. TOTAL CORE RECOVERY FOR BORING N/A %
9. TOTAL DEPTH OF HOLE 36.2 (El 340.3)	19. SIGNATURE OF INSPECTOR Johnny Jones

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	~~% CORE RECOVERY~~ HAND PENE TSF	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
			(ML) Reddish Brown, Slightly Clayey, SILT.			Fish Tailed To 2'. Drilled With 6 in. Denison Barrel With Inner Barrel Protruding 1 in. 100 % Recovery Except As Noted. Hand Penetrometer Made On Bottom Of Each Sample. No Changes In Drill Mud To Indicate Free Water.
				0.6	1	
	5			0.5	2	
				0.5	3	
				0.6	4	
	10			0.4	5	
				0.5	6	#6 Ran 2.0 Rec 1.6
	15			0.6	7	
				0.6	8	
				0.7	9	
	20			0.6	10	#10 Ran 2.0 Rec 1.8
				0.6	11	#11 Ran 2.0 Rec 1.6
	25		Red, Slightly Sandy	0.8	12	
				0.9	13	
				0.8	14	#14 Ran 20 Rec 1.2
	30			0.9	15	
				1.0	16	
340.3	35		Bottom Of Hole	0.9	17	Refusal At 36.2' No Recovery 36.0'-36.2'

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE (TRANSLUCENT)

PROJECT Richard B. Russell Dam HOLE NO. U-1

Figure D-4. Example drilling log for Denison sample boring in overburden

Hole No. AU-3

DRILLING LOG	DIVISION ORD	INSTALLATION Huntington	SHEET 1 OF 1 SHEETS
1. PROJECT Alum Creek Dam, Ohio		10. SIZE AND TYPE OF BIT 6 in Auger & 5 in Shelby	
2. LOCATION (Coordinates or Station) Sta 2+50.0 5 d/s of ℄		11. DATUM FOR ELEVATION SHOWN (TBM or MSL) NGVD	
3. DRILLING AGENCY ORH		12. MANUFACTURER'S DESIGNATION OF DRILL Failing 1500	
4. HOLE NO. (As shown on drawing title and file number) AU-3		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED — UNDISTURBED 3	
5. NAME OF DRILLER C. Black		14. TOTAL NUMBER CORE BOXES —	
6. DIRECTION OF HOLE ☑ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.		15. ELEVATION GROUND WATER Not Encountered	
		16. DATE HOLE: STARTED 6 May 1981 COMPLETED 6 May 1981	
7. THICKNESS OF OVERBURDEN —		17. ELEVATION TOP OF HOLE 952.4	
8. DEPTH DRILLED INTO ROCK —		18. TOTAL CORE RECOVERY FOR BORING N/A %	
9. TOTAL DEPTH OF HOLE 22.0 (El. 930.4)		19. SIGNATURE OF INSPECTOR William Boyd	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	~~% CORE RECOVERY~~ e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
				Hand Penet.		Augered w/ 6 in. Helical Auger To 6, 10, And 20 Feet. Where 5 in. Shelby Tubes Were Pushed 24 in.
	5			1.0 TSF	U-1	
						Hand Penetrometer Taken On Lower End Of Each Sample
	10			1.6 TSF	U-2	
	15					Push 1 Ran 24" Rec 24" Push 2 Ran 24" Rec 24" Push 3 Ran 24" Rec 24"
	20					
930.4			Bottom Of Boring	2.0 TSF	U-3	24.0'

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE (TRANSCRIPT)

PROJECT Alum Creek Dam, Ohio HOLE NO. AU-3

Figure D-5. Example drilling log for auger boring in overburden with Shelby tube sampling

Hole No. DC-4

DRILLING LOG	DIVISION South Pacific	INSTALLATION Los Angeles	SHEET 1 OF 42 SHEETS

1. PROJECT PRADO DAM, CA	10. SIZE AND TYPE OF BIT Diamond NWM & 1 3/4" I.D.S.S.
2. LOCATION (Coordinates or Station) See Remarks	11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MSL
3. DRILLING AGENCY Mott Drilling Co	12. MANUFACTURER'S DESIGNATION OF DRILL Sullivan - 180
4. HOLE NO. (As shown on drawing title and file number) DC-4	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED 4; UNDISTURBED
5. NAME OF DRILLER Horton	14. TOTAL NUMBER CORE BOXES 14
6. DIRECTION OF HOLE ☑ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER See Remarks
	16. DATE HOLE: STARTED 2/18/79; COMPLETED 3/18/79
7. THICKNESS OF OVERBURDEN 5.0 (575.0)	17. ELEVATION TOP OF HOLE 575.0
8. DEPTH DRILLED INTO ROCK 100.0	18. TOTAL CORE RECOVERY FOR BORING 99.4/99.5 %
9. TOTAL DEPTH OF HOLE 475.0	19. SIGNATURE OF INSPECTOR Jim Jones

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) Std Pene. Test Blows g
573.5	1		(CL) Brown, Sandy CLAY, Roots In Top 6", Moist.		1	Brown's Store; Hwy 36; 50'; Aprox 3500'; C-4 — 5, 7, 8
570.5	2, 3, 4		(SC) Brown, Clayey, SAND, Fine To Medium, Moist		2	Drl w/ 1.1' x 4½" Rollar Rock Bit w/ Water; Begin 1300; End 1350 — 4, 6, 13
					3	Ran 5.0'; Set 5.3' of 4" Black Iron Pipe w/ Saw Tooth End To 5.0' — 8, 11, 11
570.0	5		Rock Frags TR		4	Ref At 5.0' — 50
	6, 7, 8, 9, 10		SANDSTONE - Mss Bdd, Sl, Mic, Med Hd To Hd, F To Med Gra, Lt Gr To Lt Br, Occ Blk Sh Ptgs, Num Hem Ptgs Upper 3' Of Core; So To Med Hd, Vf, 0.6 LC; So, St Red; Op, N/a Jt, 55°	Rec 84%; RQD 79%	Box 1 Of 10 Boxes	Drl w/ 11.7 (10.3) NXM Bit # 1234 (V. Good) Shell # 5678 (New) Pull 1; Drl Tools 21.7'; WL 7.6' @ 1640; Began 1615; End 1635; Drl Time 20 Min; Ran 5.2; Rec 3.8; Loss 1.4; U.L. 0.6; Water Pressure 50 psi; Drl Action - Smooth; 100 % DWR - 100 %; CD 9.4'; Tape; RQD 3.5'/4.4' = 0.79%

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE (TRANSLUCENT) | PROJECT Prado Dam, Ca. | HOLE NO DC-4

Figure D-6. Example drilling log for core boring into bedrock with SPT, disturbed samples and rock cores (Continued)

DRILLING LOG (Cont Sheet) ELEVATION TOP OF HOLE 575.0 **Hole No.** DC-4

PROJECT PRADO DAM, CA. INSTALLATION Los Angeles SHEET 2 OF 42 SHEETS

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
			SANDSTONE (Cond. As Above)			10.2
						Pull 2
						Drill Tools 31.7'
						WL 8.2' @ 1800
	11					Begin 1645
						End 1745
						Drill Time 1 hr.
	12		Op, 1/a Jt, 15° St. Red	Rec 93%	Box 1 Of 10 Boxes	Ran 10.0'
						Rec 10.0'
						Loss 0.0'
						U.L. 0.8'
	13		Cav. Op, 0.6' U.L. No DWL	RQD 93%		Water Pressure 50psi
						Drl Action - Smooth
						100% DWR-br
						RQD 10.0'/10.8 = 93%
	14					Rod Drop 13.0 To 13.6 No DWL, No Change In Color of DWR
	15					
	16		Op, Hor. Jt., Smooth			
	17				17.0	
	18				Box 2 Of 10 Boxes	
	19		0.2' U.L., Spins Prob. Ground During Drilling			
	20					CD TAPE 20.2 20.2
						Pull 3 (Cond. On Next Page)
	21		Num. Fracs. St. Red 0.3' C.L.			
	22					

ENG FORM 1836-A JUN 67 GPO 1967 OF—267-678 PROJECT PRADO DAM, CA. HOLE NO DC-4

Figure D-6. (Concluded)

Hole No. C-18

DRILLING LOG	DIVISION Ohio River	INSTALLATION Louisville	SHEET 1 OF 3 SHEETS
1. PROJECT Taylorsville Dam		10. SIZE AND TYPE OF BIT Dia NWM	
2. LOCATION (Coordinates or Station) X: 137,187 F Y: 26,867 F		11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MSL	
3. DRILLING AGENCY Louisville District		12. MANUFACTURER'S DESIGNATION OF DRILL Failing 314	
4. HOLE NO. (As shown on drawing title and file number) C-18		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED — UNDISTURBED —	
5. NAME OF DRILLER A. Brown		14. TOTAL NUMBER CORE BOXES 4	
6. DIRECTION OF HOLE ☑ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.		15. ELEVATION GROUND WATER 606.5	
		16. DATE HOLE: STARTED 11 Aug 76 COMPLETED 16 Aug 76	
7. THICKNESS OF OVERBURDEN 0		17. ELEVATION TOP OF HOLE 625.5	
8. DEPTH DRILLED INTO ROCK 33.5		18. TOTAL CORE RECOVERY FOR BORING 93 %	
9. TOTAL DEPTH OF HOLE 33.5' (EL 592.0)		19. SIGNATURE OF INSPECTOR John Smith	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	1		LIMESTONE, Silty, Hard Slightly Weathered To Unweathered, Finely Crystalline, Massively Bedded, Moderately Jointed w/ Tight, Smooth Bedding Plane Joints Dipping 5°, Gray, Vuggy.	Rec 100%	Box 1 of 4 Boxes	Bit # 1234 - New Shoe # 456 - Used, Good 5.0' Barrell Pull 1 0-4.5' Ran 4.5 Rec 4.5 Loss 0.0
	2		Moderately Weathered, Tan	RQD 100%		Drl. Action Smooth Water Return - 100% Lt. Gray Hyd Press. 100 psi Drill Time 32 min.
	3		Tight High Angle Joints			RQD 4.5'/4.5' = 100
	4					C.D. 4.5 4.5
	5		Horizontal Joint, Rough Slightly Open	Rec 91%		Pull 2 4.5-9.5 Ran 5.0 Rec 4.2 Loss 0.8 U.L. 0.4
	6		Dark Gray, Very Silty	RQD 85%		Drl Action: Rough 7.0'-7.7'
	7		Shattered, Stained Red-Brown, Trace Of Red Clay, 0.4' U.L.			Water Return 100% Reddish Brown 7.0'-9.5' Drl Time 48 min Hyd Press. 150 psi
	8					RQD 3'11"/4'7" = 85%
	9		45° Joint, Tight, Smooth		9.1'	CD Tape 9.1 9.5
	10					

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PROJECT Taylorsville Dam HOLE NO. C-18

Figure D-7. Example drilling log for core boring in bedrock (sheet 1 of 3)

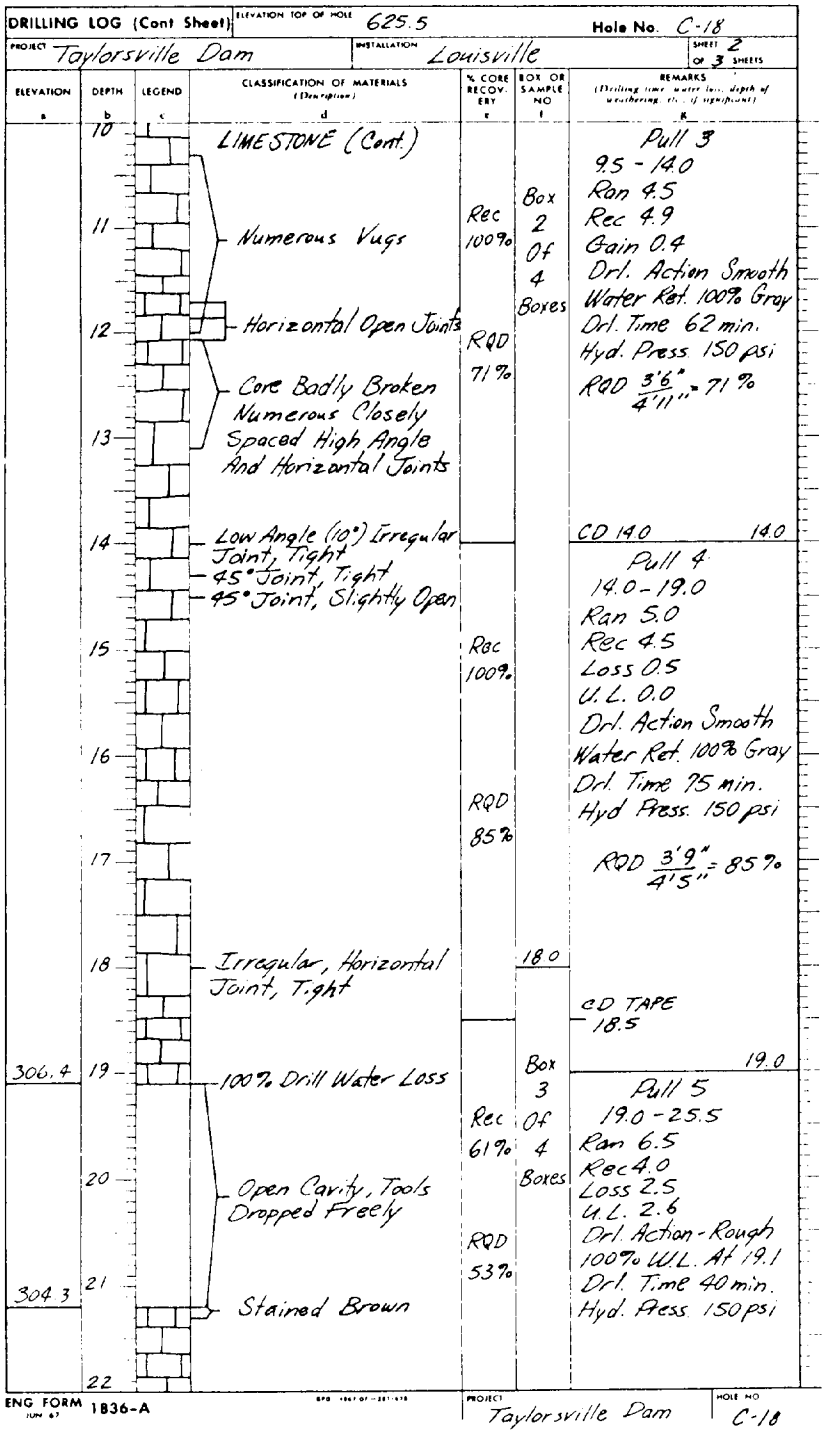

Figure D-7. (Sheet 2 of 3)

DRILLING LOG (Cont Sheet) ELEVATION TOP OF HOLE 625 5 Hole No. C-18

PROJECT Taylorsville Dam INSTALLATION Louisville SHEET 3 OF 3 SHEETS

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
	22		LIMESTONE (Cont.)			Pull 5 (Cont.)
	23		Horizontal Open Joints Stained Brown	Rec 61%	Box 3 of 4 Boxes (Cont.)	RQD $\frac{3'6''}{6'7''}$ = 53% W.L. In Hole After Run 19.0'
				RQD 53%		
	24					
	25		Fresh, Irregular Break Near Horizontal			CD Tape 25.1
						25.5
	26			Rec 100%		Pull 6 25.5-29.0 Ran 3.5 Rec 3.9 Gain 0.4
	27		Fresh Break Along Silty Parting	RQD 100%	27.0	Drl. Action Rough No D.W. Return Hyd. Press. 150 psi Drl Time 40 min. W.L. -19.0' RQD $\frac{3'11''}{3'11''}$ = 100%
	28				Box 4 of 4 Boxes	
	29		45° Joint, Tight, Smooth			CD 29.0
	30			Rec 100%		Pull 7 29.0-33.5 Ran 4.5 Rec 4.5 Loss 0.0 Drl. Action Rough No D.W. Return Hyd. Press. 150 psi Drl. Time 70 min. W.L. 19.0' RQD $\frac{4'6''}{4'6''}$ = 100%
	31		Horizontal Fracture Irregular, Fresh	RQD 100%		
	32					Water Level 19.0' After 24 Hr.
	33					
592.0			Bottom Of Hole			Tape CD 33.5 33.5

ENG FORM JUN 67 1836-A GPO 1967 OF—267-678 PROJECT Taylorsville Dam HOLE NO C-18

Figure D-7. (Sheet 3 of 3)

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