

*Guide for Using the Hydrogeologic Classification System for Logging Water Well Boreholes by Thomas M. Hanna NGWA Press

TEST BORING 1

LOCATION: SEE TEST BORING LOCATION MAP
ELEVATION:

Other Tests	Moisture Content (%)	Blows / Foot	Sample No.	Sample Type	Soil Graph	Soil Class	Frost Depth	Frost Class	DEPTH
									0
									FOREST SURFACE (2" ORGANIC MAT)
	108		1			F1			POORLY GRADED GRAVEL WITH SAND, brown, about 30% sand, 5% silt, gravel subrounded to 2", medium sand, FROZEN, ICE AS Nbn, organics to 15% by volume (roots) becoming sandier, about 40% sand, 5% silt, gravel subrounded to 1.5", damp, medium dense
	4	17	2						
	3	9	3						becoming sandier, about 45% sand, 5% silt, gravel subangular to 2", loose
					GP/GM				
	5	14	4						medium dense
	10		5			F2			POORLY GRADED SAND WITH SILT, brown, about 5% gravel, 10% silt, gravel subrounded to 1/2", medium sand, wet, medium dense
	8	18	5A						
					GP	NFS			POORLY GRADED GRAVEL WITH SAND, gray, about 45% sand, 5% silt, gravel subangular to 2", medium sand, wet, medium dense, trace of COAL
	6	25	6			F1			POORLY GRADED GRAVEL WITH SILT AND SAND, dark gray, about 40% sand, 10% silt, gravel subangular to 2", medium sand, wet, medium dense
					GP/GM				
	11		7			F2			SILTY SAND, brown, about 5% gravel, 15% silt, nonplastic, gravel subrounded to 1/2", medium sand, wet, very dense
	6	75	7A						
					GM	F2			SILTY GRAVEL WITH SAND, brown, about 35% sand, 20% silt, nonplastic, gravel subrounded to 2", medium sand, wet, very dense
									29.5

(continued on next page)

KEY

MA = Mechanical Analysis
 TD = Total Depth
 = Groundwater After Drilling
 □ = Grab Sample
 ■ = SPT Sample
 S = Shelby Tube - pushed
 X = 2.5" I.D. Spoon Sample
 340# weight, 30" fall

DRILLING CO.: Denali Drilling, Inc.
EQUIPMENT: MOBILE B-61 Nodwell
OPERATOR: Norman Braeutigam
METHOD: 8 in. OD hollow-stem auger

CLIENT: Alaska Interstate Construction
PROJECT: Eklutna Gravel Pit Expansion
LOGGED BY: Keri A. Nutter
TEST BORING COMPLETED: 2-11-09
W.O. 1132.59475.01

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LOG OF TEST BORING 1

FIGURE B-1

LOG OF EXPLORATION 59475A.GPJ BLANK2.GDT 3/10/09

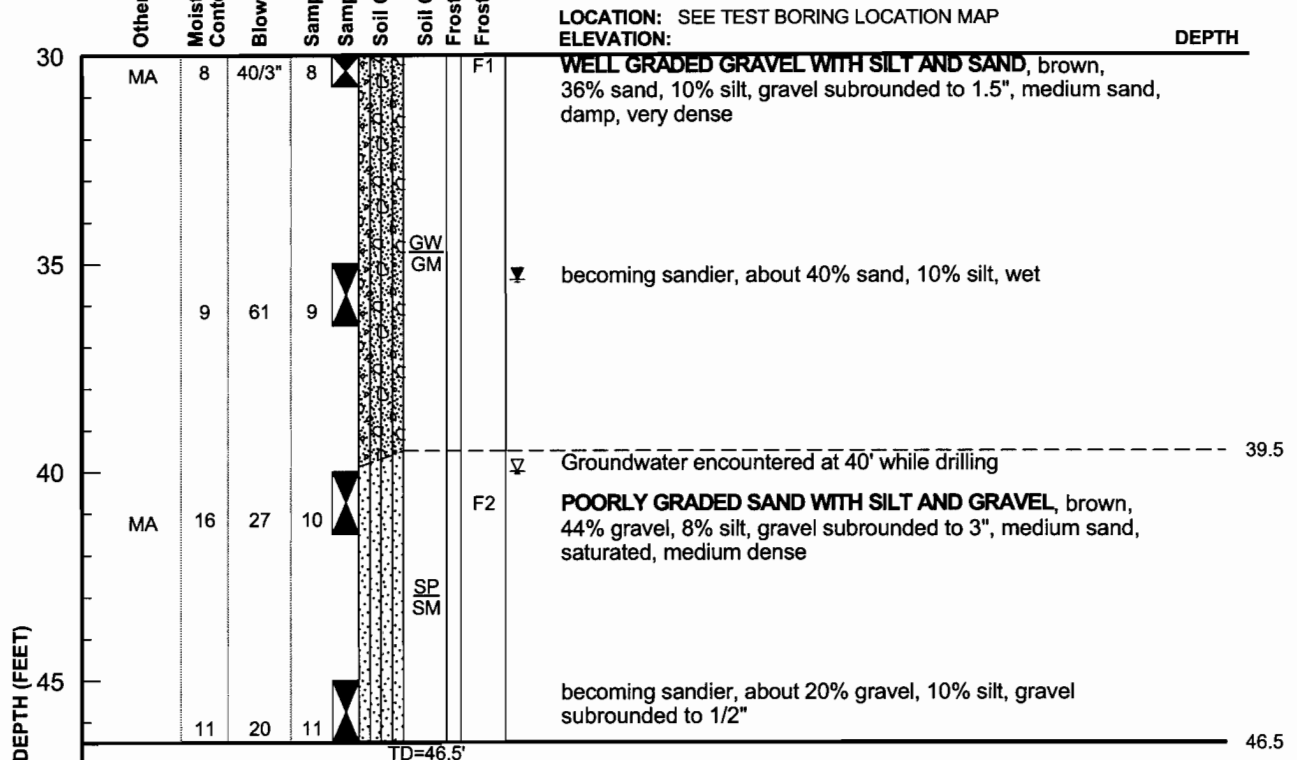


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LOG OF TEST BORING 1

FIGURE B-1

TEST BORING 1 (Continued)



TEST BORING COMPLETED ON 2-11-09
PVC STANDPIPE INSTALLED TO 46.5'
GROUNDWATER MEASURED AT 35.4' ON 02-20-09

KEY
MA = Mechanical Analysis
TD = Total Depth
= Groundwater After Drilling
= Grab Sample
= SPT Sample
= Shelby Tube - pushed
= 2.5" I.D. Spoon Sample
340# weight, 30" fall

DRILLING CO.: Denali Drilling, Inc.
EQUIPMENT: MOBILE B-61 Nodwell
OPERATOR: Norman Braeutigam
METHOD: 8 in. OD hollow-stem auger

CLIENT: Alaska Interstate Construction
PROJECT: Eklutna Gravel Pit Expansion
LOGGED BY: Keri A. Nutter
TEST BORING COMPLETED: 2-11-09
W.O. 1132.59475.01

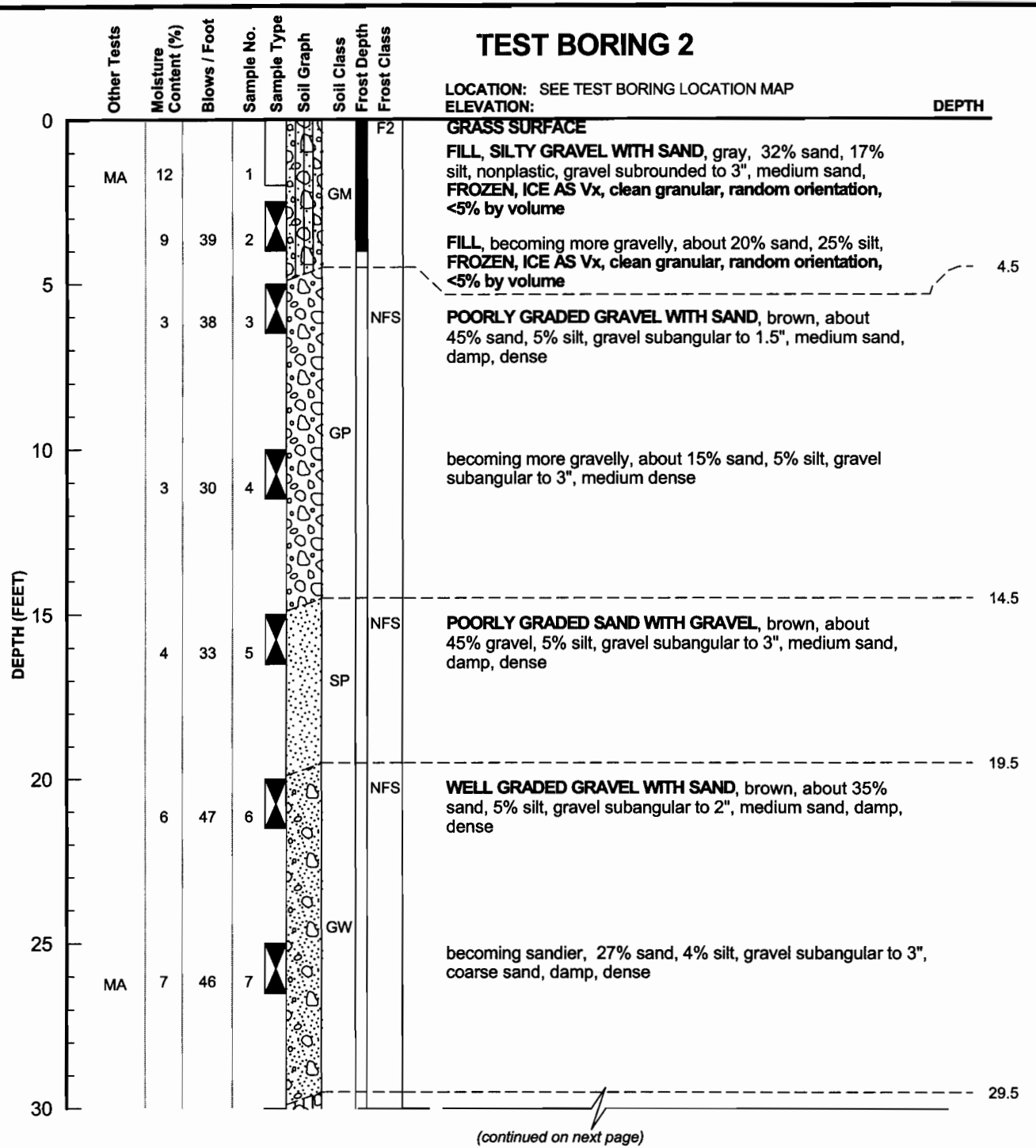


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LOG OF TEST BORING 1

FIGURE B-1

LOG OF EXPLORATION 59475A.GPJ BLANK2.GDT 3/10/09



KEY
 MA = Mechanical Analysis
 TD = Total Depth
 = Groundwater After Drilling
 = Grab Sample
 = SPT Sample
 = Shelby Tube - pushed
 = 2.5" I.D. Spoon Sample
 340# weight, 30" fall

DRILLING CO.: Denali Drilling, Inc.
EQUIPMENT: MOBILE B-61 Nodwell
OPERATOR: Norman Braeutigam
METHOD: 8 in. OD hollow-stem auger

CLIENT: Alaska Interstate Construction
PROJECT: Eklutna Gravel Pit Expansion
LOGGED BY: Callie J. Keller
TEST BORING COMPLETED: 2-18-09
W.O. 1132.59475.01

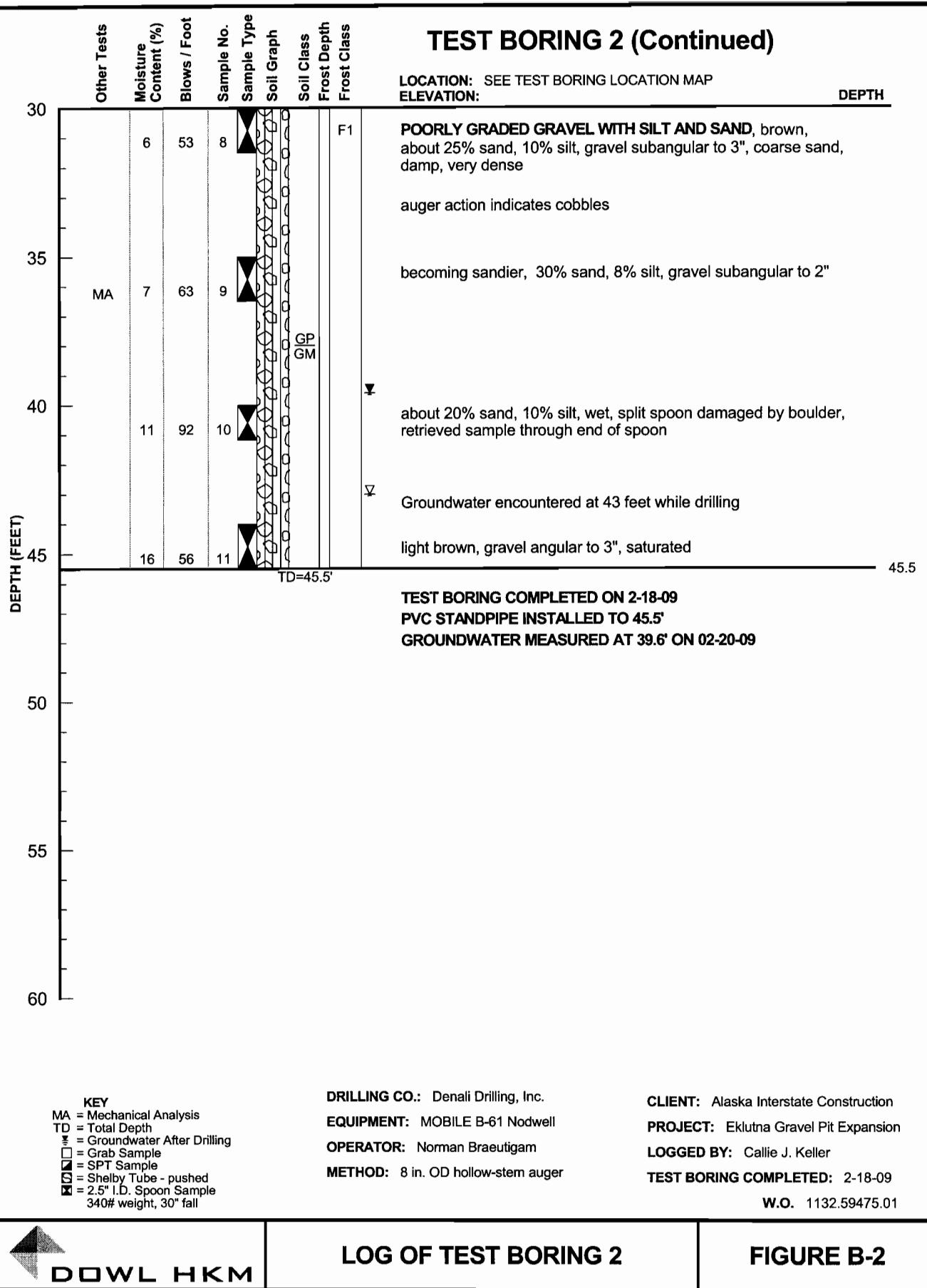


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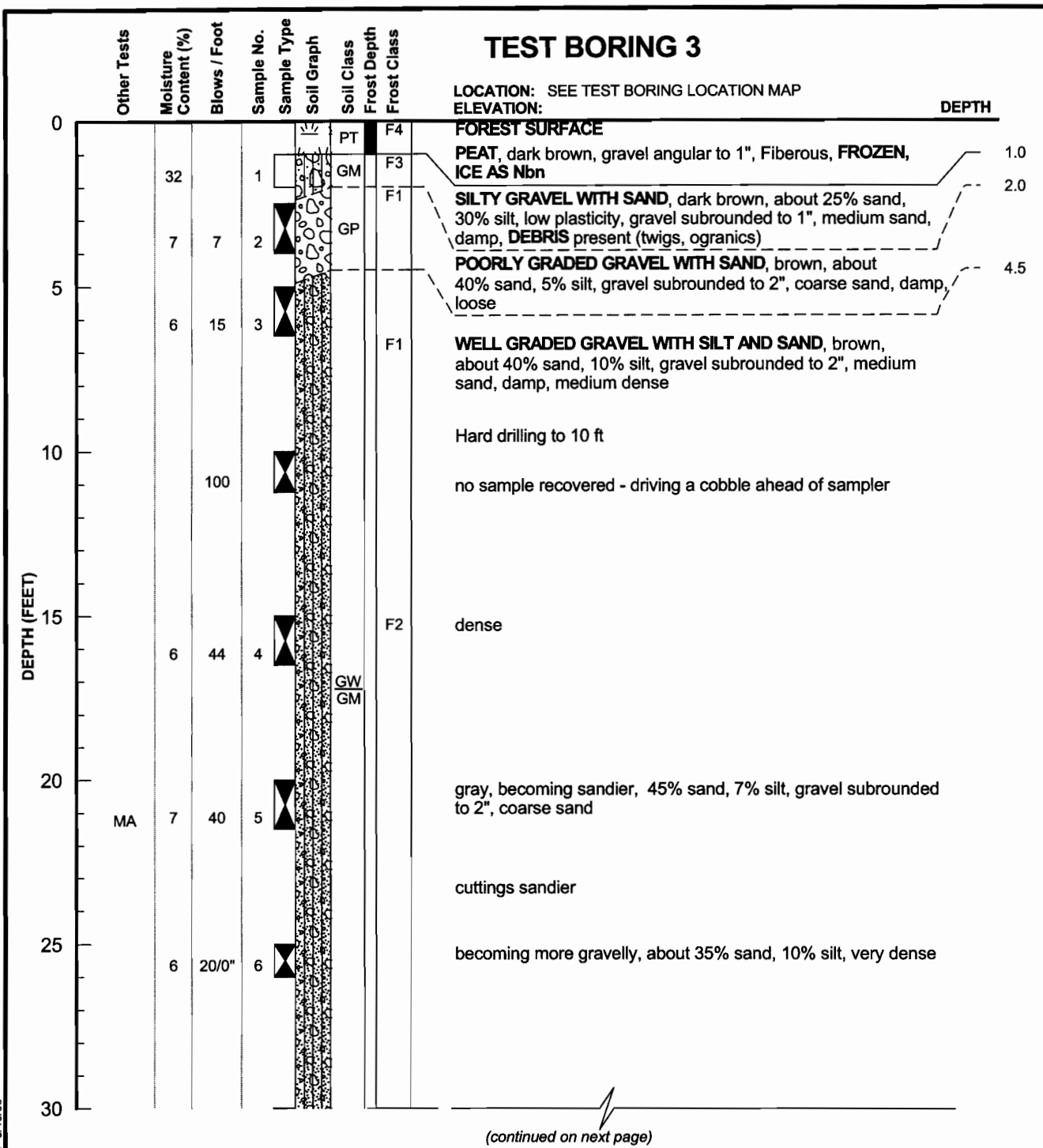
LOG OF TEST BORING 2

FIGURE B-2

LOG OF EXPLORATION 59475A.GPJ BLANK2.GDT 3/10/09



LOG OF EXPLORATION 59475A.GPJ BLANK2.GDT 3/10/09



KEY
 MA = Mechanical Analysis
 TD = Total Depth
 □ = Groundwater After Drilling
 □ = Grab Sample
 ⊗ = SPT Sample
 ⊗ = Shelby Tube - pushed
 ⊗ = 2.5" I.D. Spoon Sample
 340# weight, 30" fall

DRILLING CO.: Denali Drilling, Inc.
EQUIPMENT: MOBILE B-61 Nodwell
OPERATOR: Norman Braeutigam
METHOD: 8 in. OD hollow-stem auger

CLIENT: Alaska Interstate Construction
PROJECT: Eklutna Gravel Pit Expansion
LOGGED BY: Brian M. Mullen
TEST BORING COMPLETED: 2-17-09
W.O. 1132.59475.01

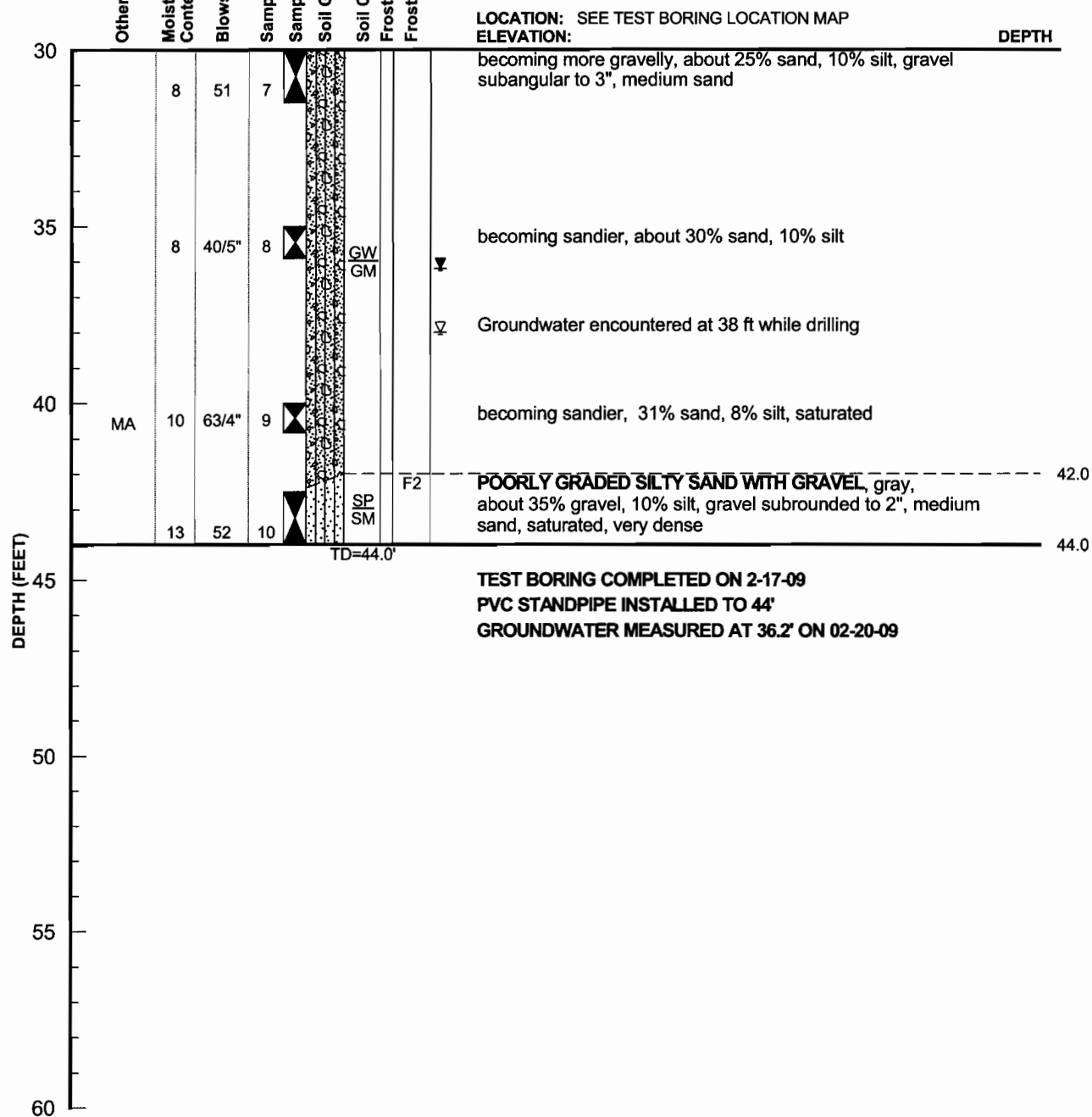


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LOG OF TEST BORING 3

FIGURE B-3

TEST BORING 3 (Continued)



KEY
MA = Mechanical Analysis
TD = Total Depth
☒ = Groundwater After Drilling
☐ = Grab Sample
☒ = SPT Sample
☒ = Shelby Tube - pushed
☒ = 2.5" I.D. Spoon Sample
340# weight, 30" fall

DRILLING CO.: Denali Drilling, Inc.
EQUIPMENT: MOBILE B-61 Nodwell
OPERATOR: Norman Braeutigam
METHOD: 8 in. OD hollow-stem auger

CLIENT: Alaska Interstate Construction
PROJECT: Eklutna Gravel Pit Expansion
LOGGED BY: Brian M. Mullen
TEST BORING COMPLETED: 2-17-09
W.O. 1132.59475.01



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LOG OF TEST BORING 3

FIGURE B-3

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KEY
MA = Mechanical Analysis
TD = Total Depth
 = Groundwater After Drilling
 = Grab Sample
 = SPT Sample
 = Shelby Tube - pushed
 = 2.5" I.D. Spoon Sample
340# weight, 30" fall

DRILLING CO.: Denali Drilling, Inc.
EQUIPMENT: MOBILE B-61 Nodwell
OPERATOR: Norman Braeutigam
METHOD: 8 in. OD hollow-stem auger

CLIENT: Alaska Interstate Construction
PROJECT: Eklutna Gravel Pit Expansion
LOGGED BY: Keri A. Nutter
TEST BORING COMPLETED: 2-13-09
W.O. 1132.59475.01



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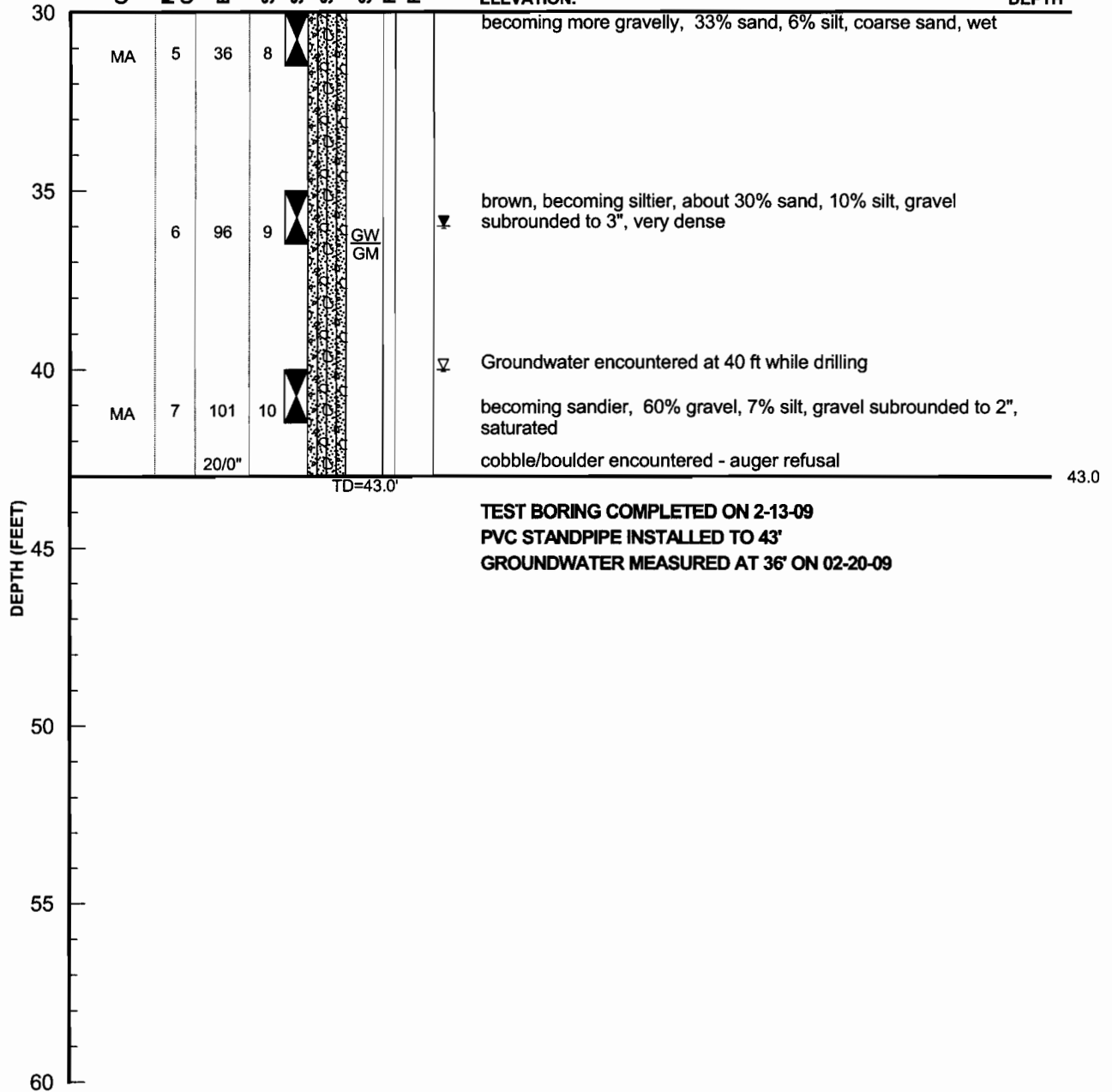
LOG OF TEST BORING 4

FIGURE B-4

TEST BORING 4 (Continued)

LOCATION: SEE TEST BORING LOCATION MAP
ELEVATION:

DEPTH



KEY
MA = Mechanical Analysis
TD = Total Depth
⬮ = Groundwater After Drilling
□ = Grab Sample
⬮ = SPT Sample
⬮ = Shelby Tube - pushed
⬮ = 2.5" I.D. Spoon Sample
340# weight, 30" fall

DRILLING CO.: Denali Drilling, Inc.
EQUIPMENT: MOBILE B-61 Nodwell
OPERATOR: Norman Braeutigam
METHOD: 8 in. OD hollow-stem auger

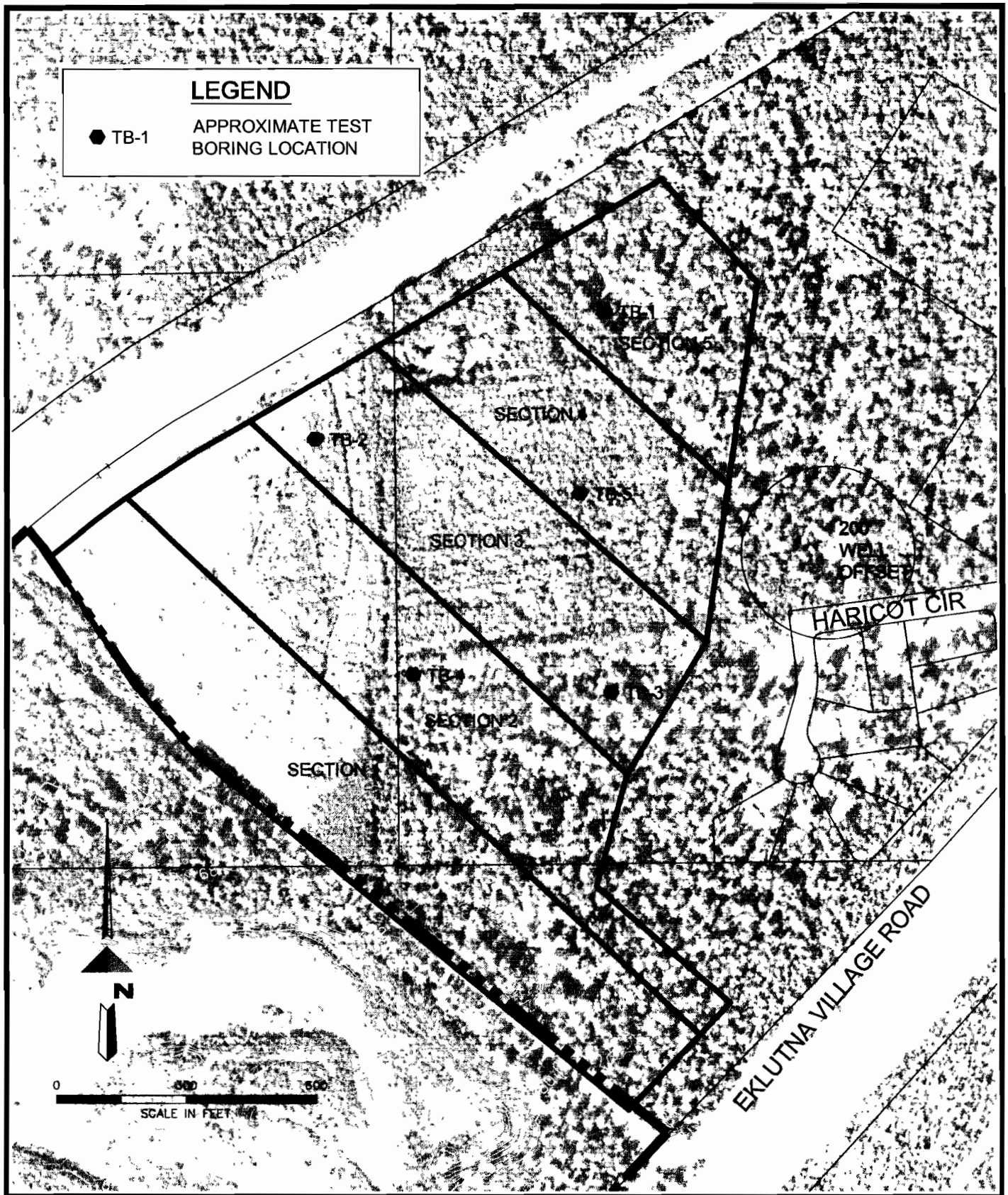
CLIENT: Alaska Interstate Construction
PROJECT: Eklutna Gravel Pit Expansion
LOGGED BY: Keri A. Nutter
TEST BORING COMPLETED: 2-13-09
W.O. 1132.59475.01



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LOG OF TEST BORING 4

FIGURE B-4



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SCALE AS SHOWN



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Test Boring Location Map
EKLUTNA TEST PIT EXPANSION
Eklutna, Alaska

FIGURE A-2