

Km 1691.7 to 1717.3 Alaska Highway #1

J.R. Paine & Associates (Rob Williamson) August 2004

**ESEBASE LOGS**

1. Auger Drilling R.O.W. (CME75 Drill)

Testholes            30000 to 30070  
                          30082 to 30136  
                          30148 to 30176

\* NOTE: There are no Testhole 30048, 30060 & 30071.

2. Rock Drilling R.O.W. (Reverse Circulation Air Rotary)

Testholes            30084 R to 30093 R  
                          30096 R to 30097 R  
                          30100 R to 30107 R  
                          30111 R to 30118 R  
                          30121 R to 30122 R  
                          30126 R to 30127 R  
                          30129 R  
                          30131 R to 30136 R

\* NOTE: Consultant not required to provide EseBase Logs for 30149R to 30151R & 30153R to 30159R. Section constructed summer 2005.

3. 1699+700 LHS Alaska Highway (Cat 318C Excavator)

Test Pits            30177 to 30179

4. 1706+200 LHS Alaska Highway (Soldiers Summit Slide) (Hitachi 450EX Excavator)

Test Pits            30072 to 30081

5. 1712+900 LHS Alaska Highway (Williscroft) (Hitachi 450EX Excavator / CME75 Drill)  
Pit ID# 115 G-12

\* NOTE: See Pit File 115 G-12 for Test Pits 30137 to 30147 and Testholes 30142D, 30146D, & 654-2763D



Km 1691.7 to 1717.3 Alaska Highway #1

August 2004

J. R. Paine & Associates

Auger Hole EseBase Logs  
(CME75 Drill)

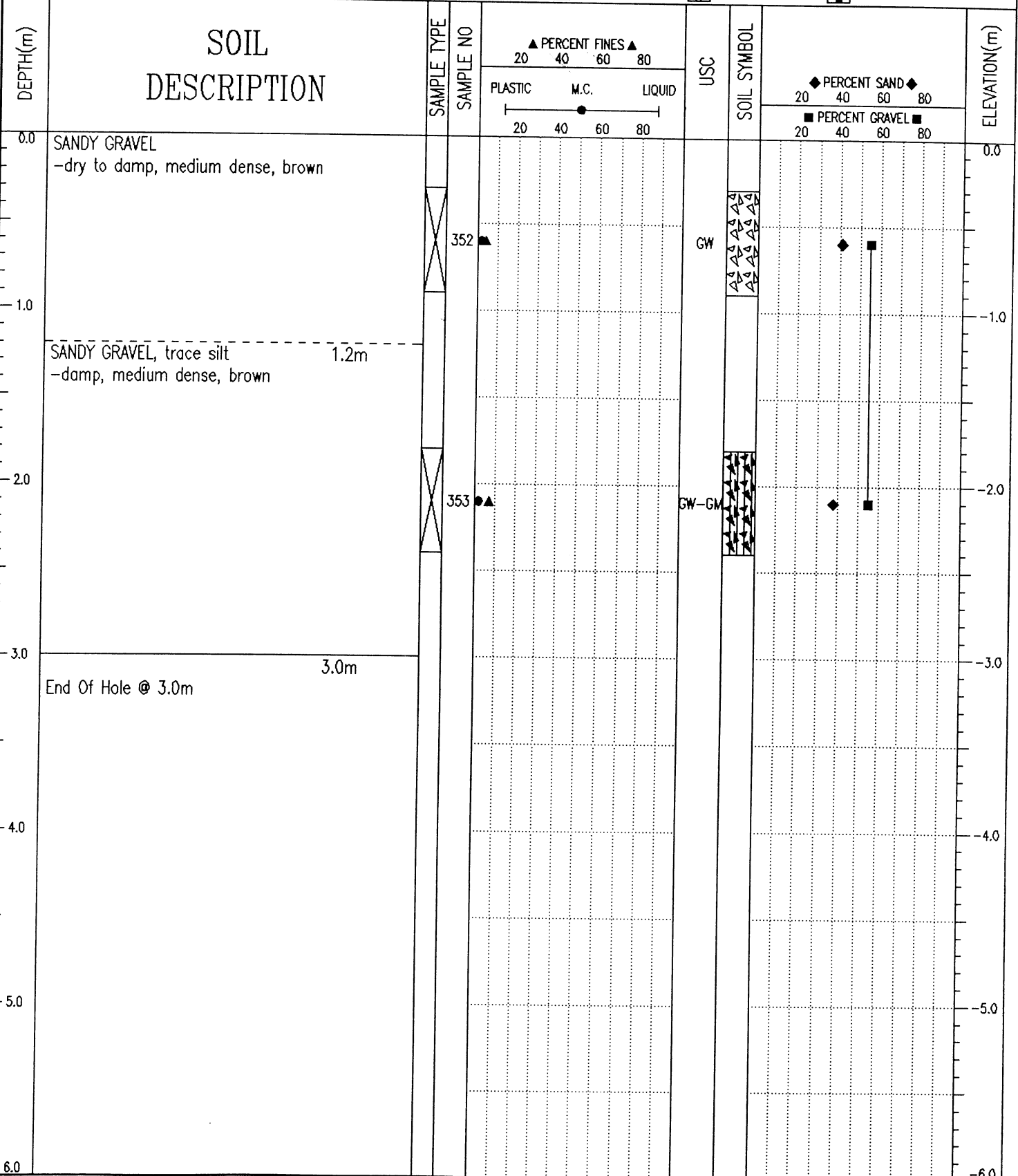
Testholes	30000 to 30070
	30082 to 30136
	30148 to 30176

\* NOTE: There are no Testhole 30048, 30060 & 30071.



Geotechnical Services Km 1691.7 to 1717.3 Alaska Highway #1 TEST PIT NO: 30000  
 Donjek Services Ltd. UTM ZONE: - N6767988 E644064 PROJECT NO: 8002-318  
 CME75 Drill on FN60 Flextrac Nodwell ELEVATION:

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

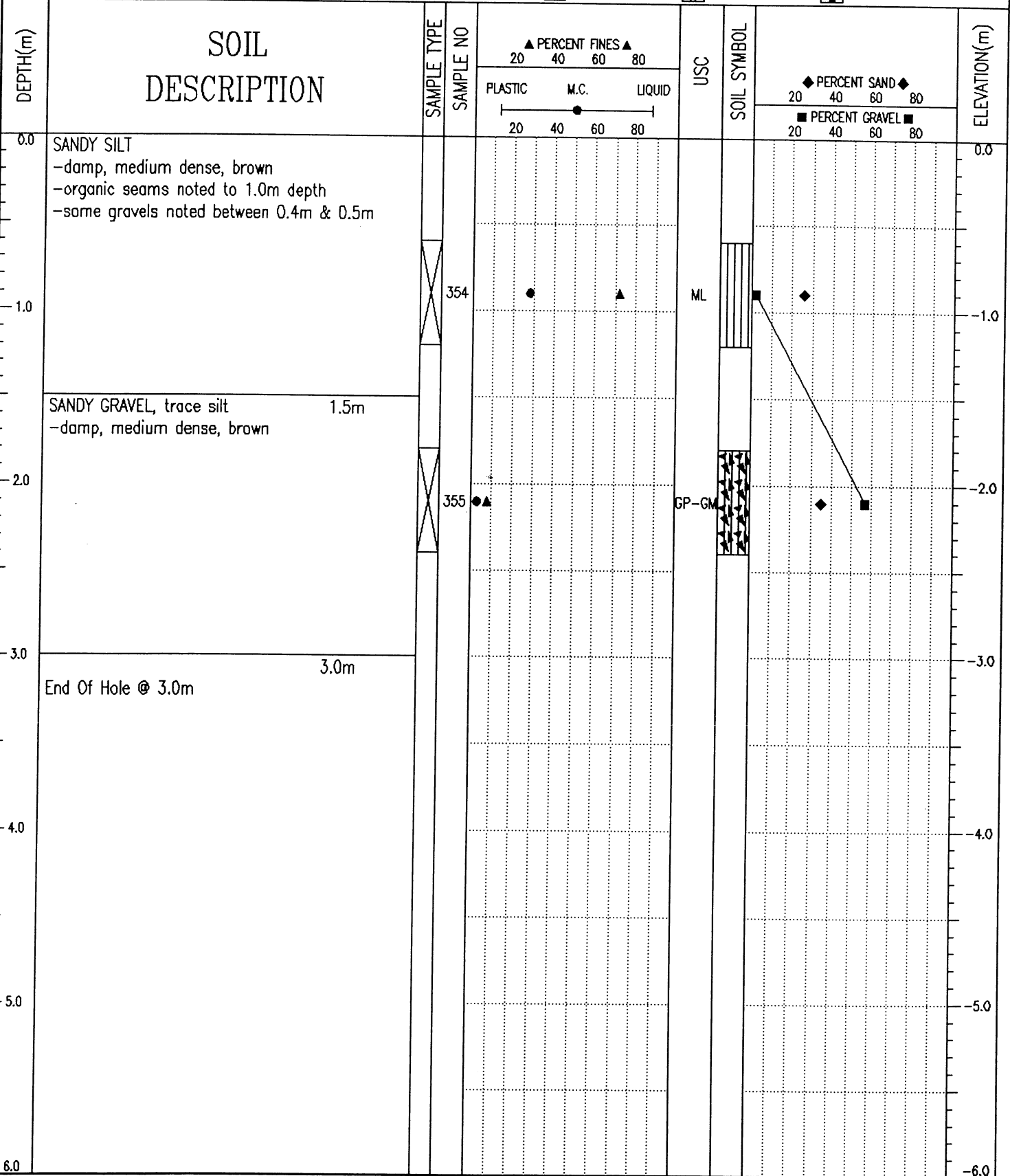


J. R. Paine & Associates Ltd.  
 Whitehorse, Yukon

LOGGED BY: RW COMPLETION DEPTH: 3 m  
 REVIEWED BY: - COMPLETE: 08/16/04  
 Fig. No: 158 Page 1 of 1

Geotechnical Services	Km 1691.7 to 1717.3 Alaska Highway #1	TEST PIT NO: 30001
Donjek Services Ltd.	UTM ZONE: - N6768004 E643863	PROJECT NO: 8002-318
CME75 Drill on FN60 Flextrac Nodwell		ELEVATION:

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

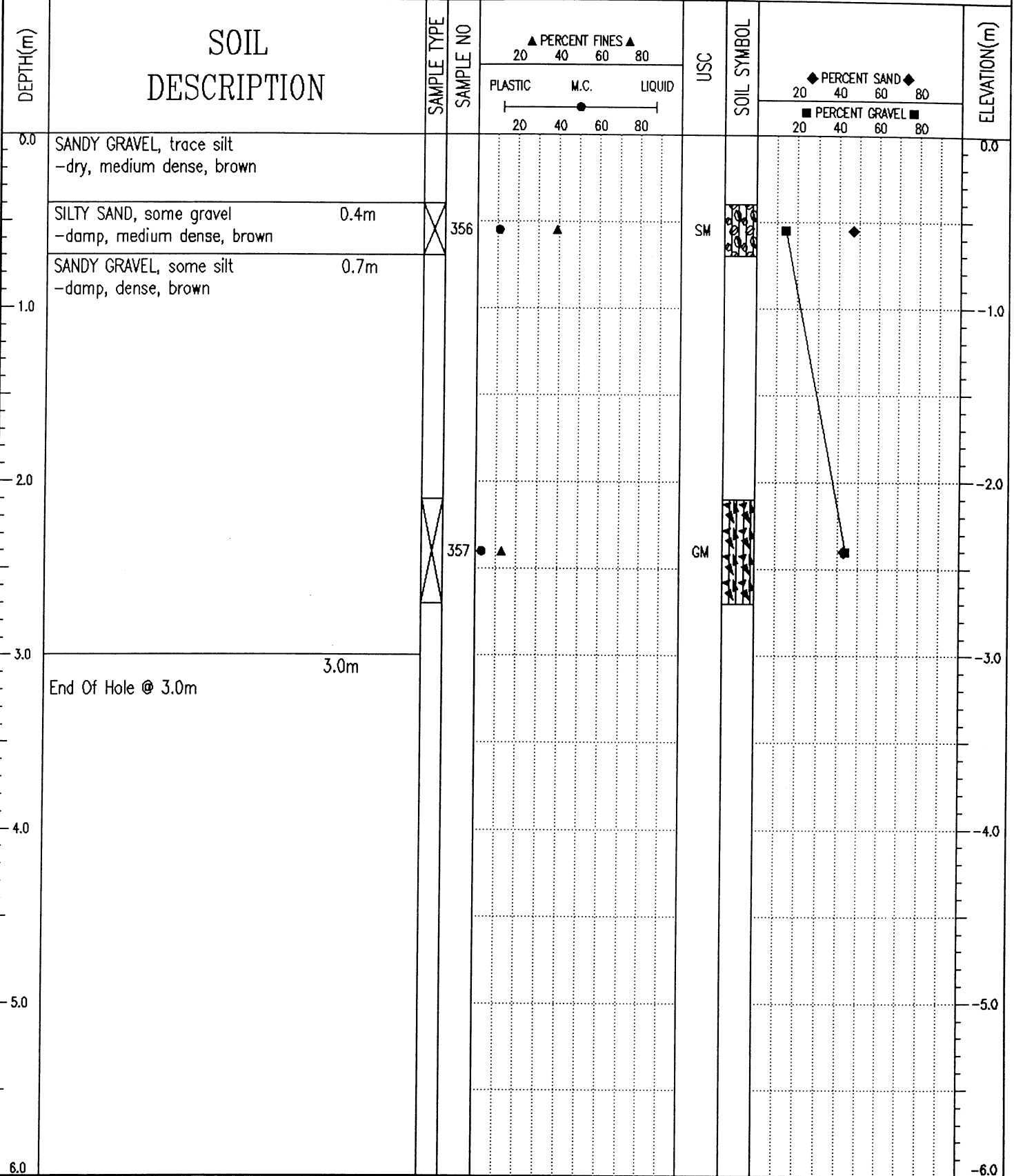


J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW	COMPLETION DEPTH: 3 m
REVIEWED BY: -	COMPLETE: 08/16/04
Fig. No: 159	Page 1 of 1

Geotechnical Services	Km 1691.7 to 1717.3 Alaska Highway #1	TEST PIT NO: 30002
Donjek Services Ltd.	UTM ZONE: - N6768001 E643667	PROJECT NO: 8002-318
CME75 Drill on FN60 Flextrac Nodwell		ELEVATION:

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



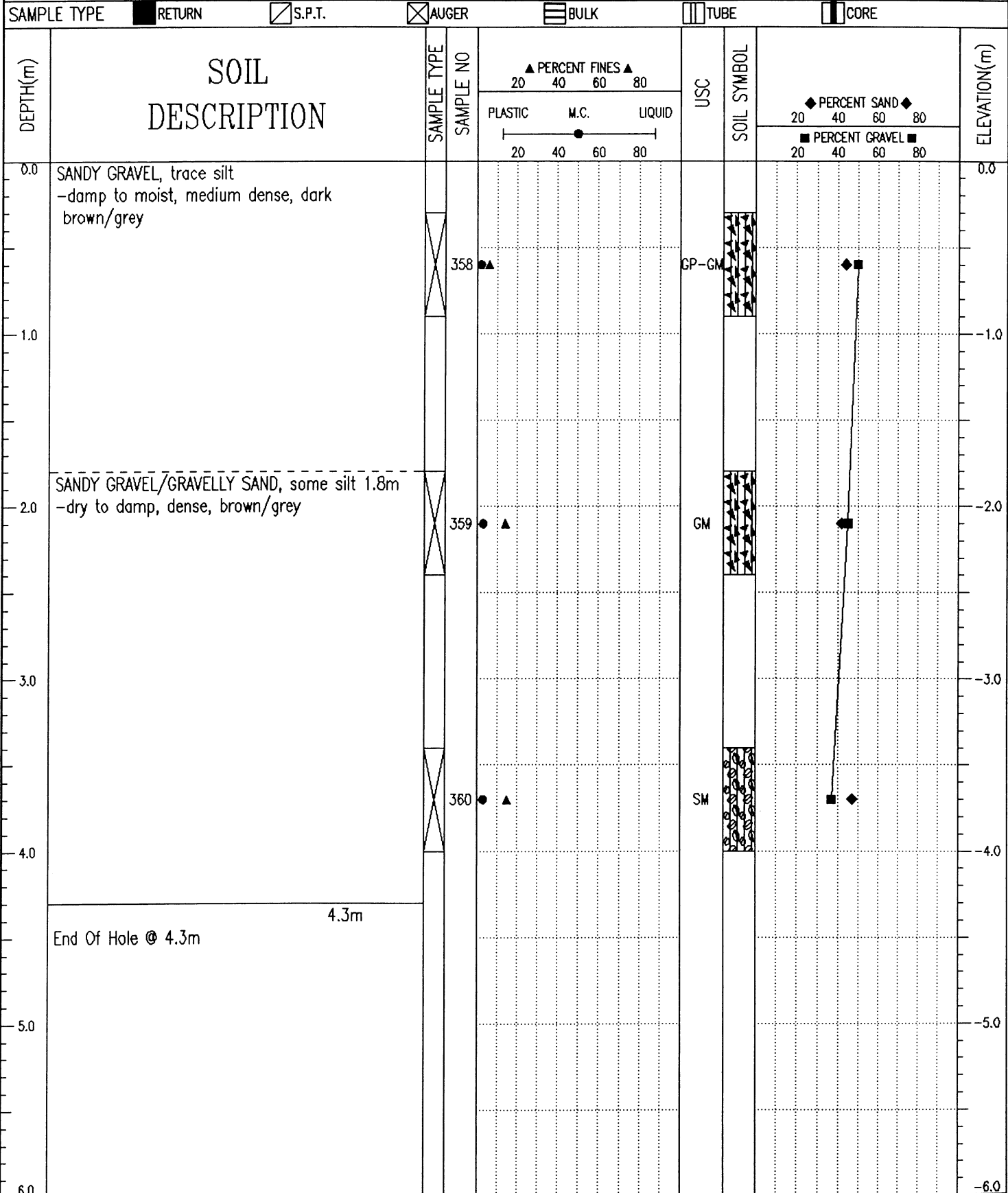
J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW  
REVIEWED BY: -  
Fig. No: 160

COMPLETION DEPTH: 3 m  
COMPLETE: 08/16/04

05/02/03 02:25PM (Y16\_HWS)

Geotechnical Services	Km 1691.7 to 1717.3 Alaska Highway #1	TEST PIT NO: 30003
Donjek Services Ltd.	UTM ZONE: - N6767987 E643448	PROJECT NO: 8002-318
CME75 Drill on FN60 Flextrac Nodwell		ELEVATION:



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW

REVIEWED BY: -

Fig. No: 161

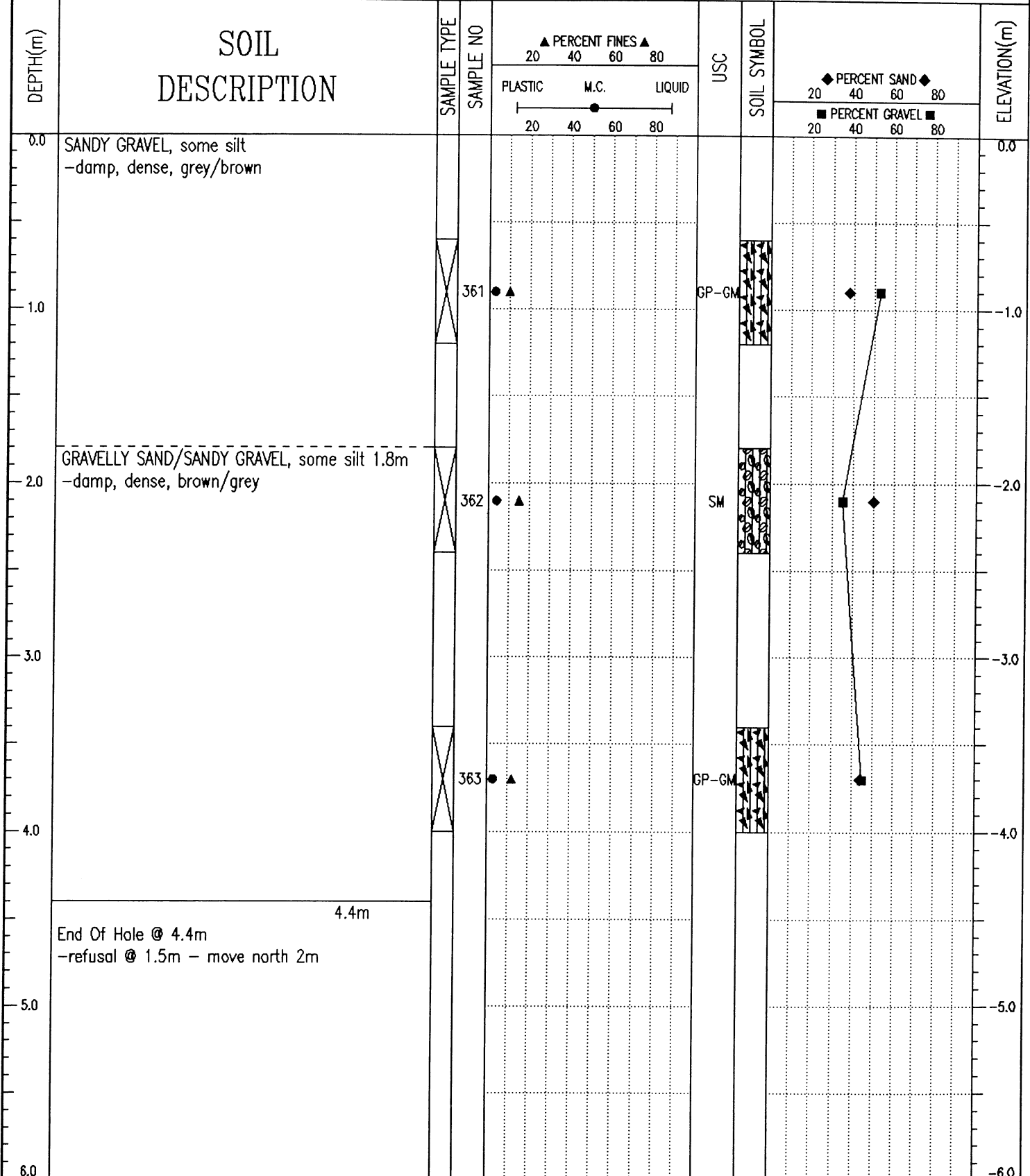
COMPLETION DEPTH: 4.3 m

COMPLETE: 08/16/04

Page 1 of 1

Geotechnical Services	Km 1691.7 to 1717.3 Alaska Highway #1	TEST PIT NO: 30004
Donjek Services Ltd.	UTM ZONE: - N6768053 E643430	PROJECT NO: 8002-318
CME75 Drill on FN60 Flextrac Nodwell		ELEVATION:

SAMPLE TYPE	<input checked="" type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input type="checkbox"/> TUBE	<input type="checkbox"/> CORE
-------------	--	--	---	-------------------------------	-------------------------------	-------------------------------



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW

REVIEWED BY: -

Fig. No: 162

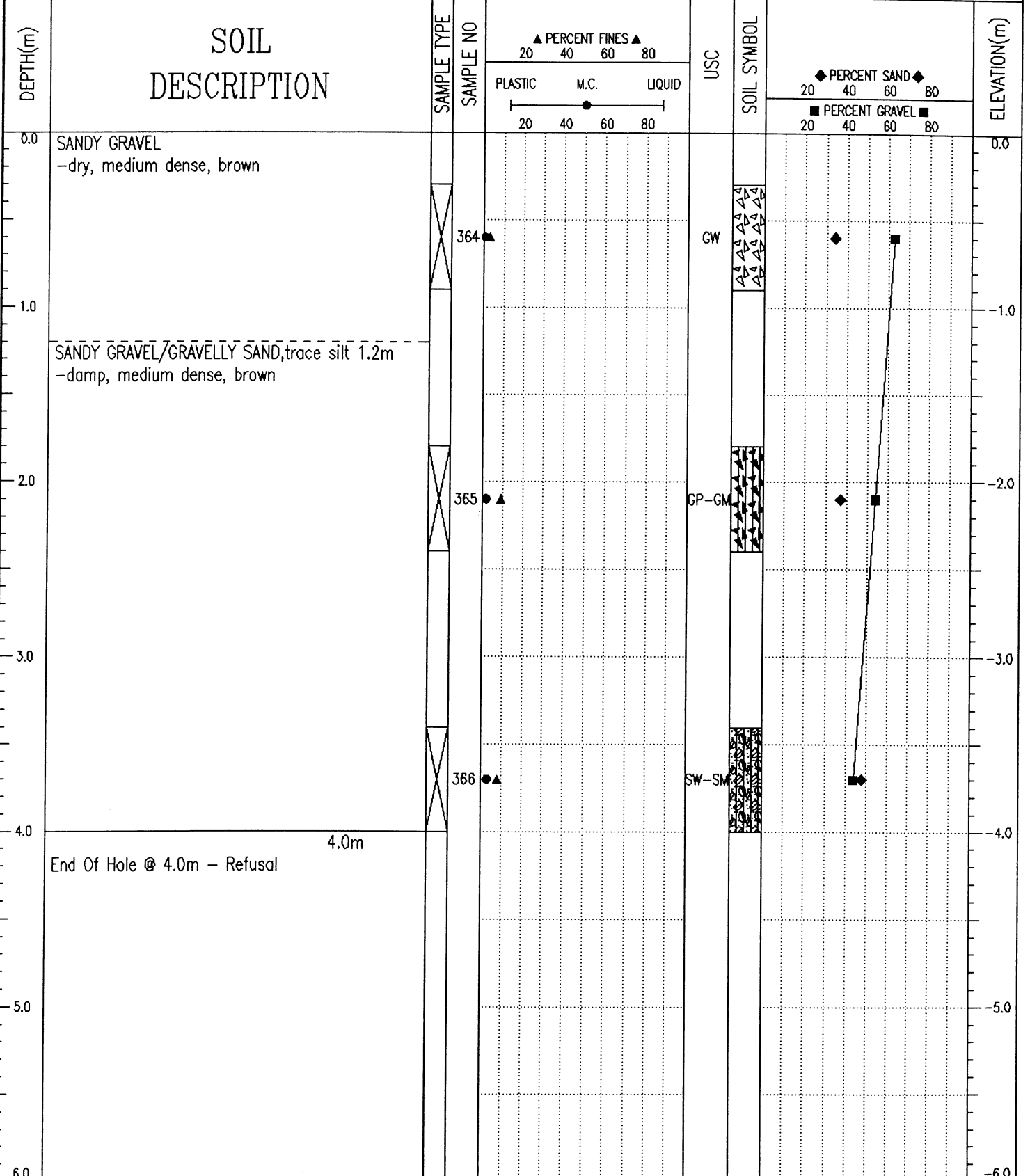
COMPLETION DEPTH: 4.4 m

COMPLETE: 08/16/04

Page 1 of 1

Geotechnical Services	Km 1691.7 to 1717.3 Alaska Highway #1	TEST PIT NO: 30005
Donjek Services Ltd.	UTM ZONE: - N6768019 E648267	PROJECT NO: 8002-318
CME75 Drill on FN60 Flextrac Nodwell		ELEVATION:

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW

REVIEWED BY: -

Fig. No: 163

COMPLETION DEPTH: 4 m

COMPLETE: 08/18/04

Page 1 of 1

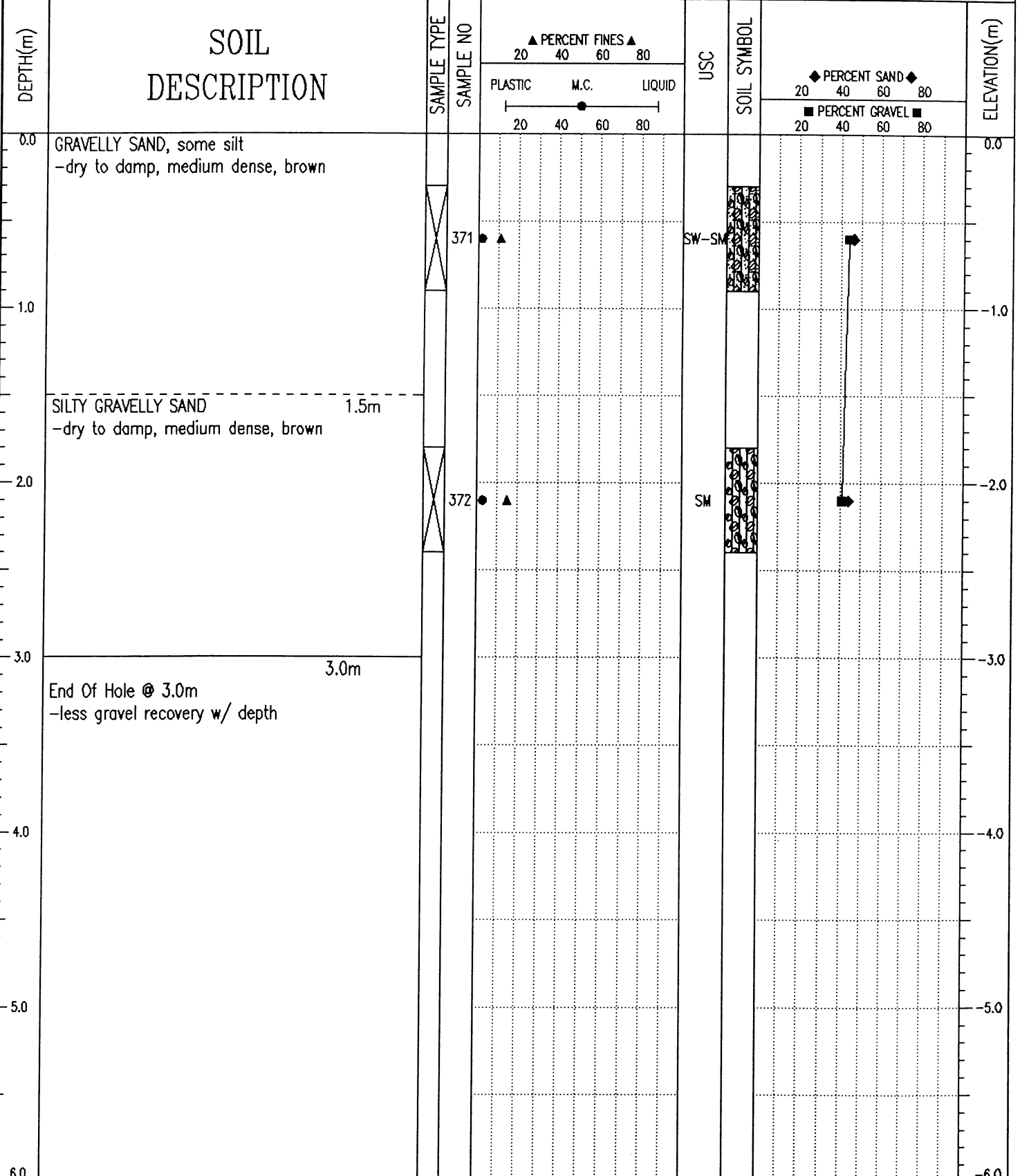
SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

DEPTH(m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			ELEVATION(m)
				PLASTIC	M.C.	LIQUID			PERCENT GRAVEL ■			
0.0	SANDY GRAVEL, some silt -dry to damp, medium dense, brown											0.0
		X	369				GP-GM					
1.5	SILTY GRAVELLY SAND 1.5m -dry to damp, medium dense, brown											
		X	370				SM					
3.0	End Of Hole @ 3.0m -less gravel recovery w/ depth											
6.0												

**J. R. Paine & Associates Ltd.**  
Whitehorse, Yukon

LOGGED BY: RW	COMPLETION DEPTH: 3 m
REVIEWED BY:	COMPLETE: 08/18/04
Fig. No: 165	Page 1 of 1

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

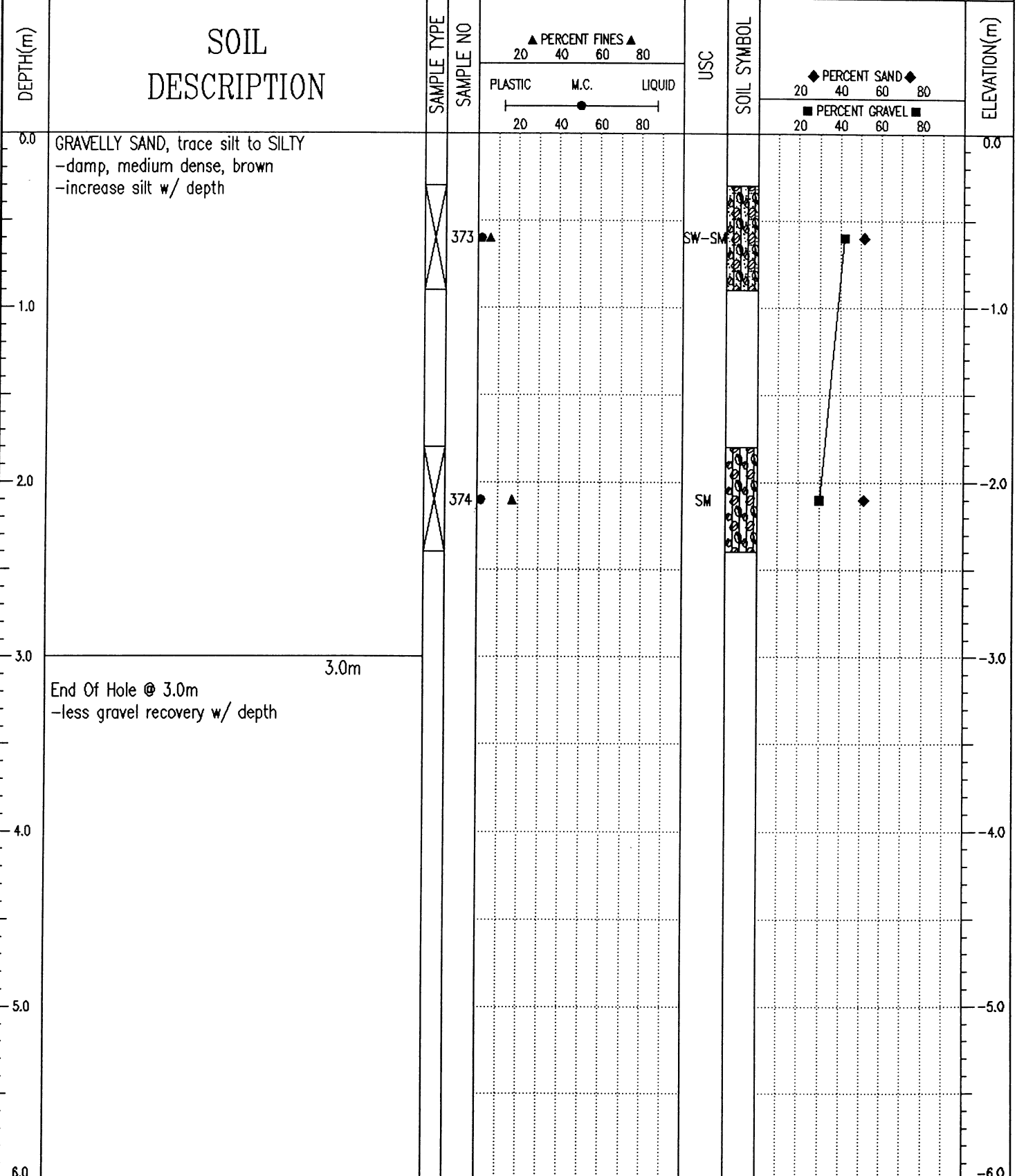


J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW	COMPLETION DEPTH: 3 m
REVIEWED BY:	COMPLETE: 08/18/04
Fig. No: 166	Page 1 of 1

Geotechnical Services	Km 1691.7 to 1717.3 Alaska Highway #1	TEST PIT NO: 30008
Donjek Services Ltd.	UTM ZONE: - N6768033 E642462	PROJECT NO: 8002-318
CME75 Drill on FN60 Flextrac Nodwell		ELEVATION:

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

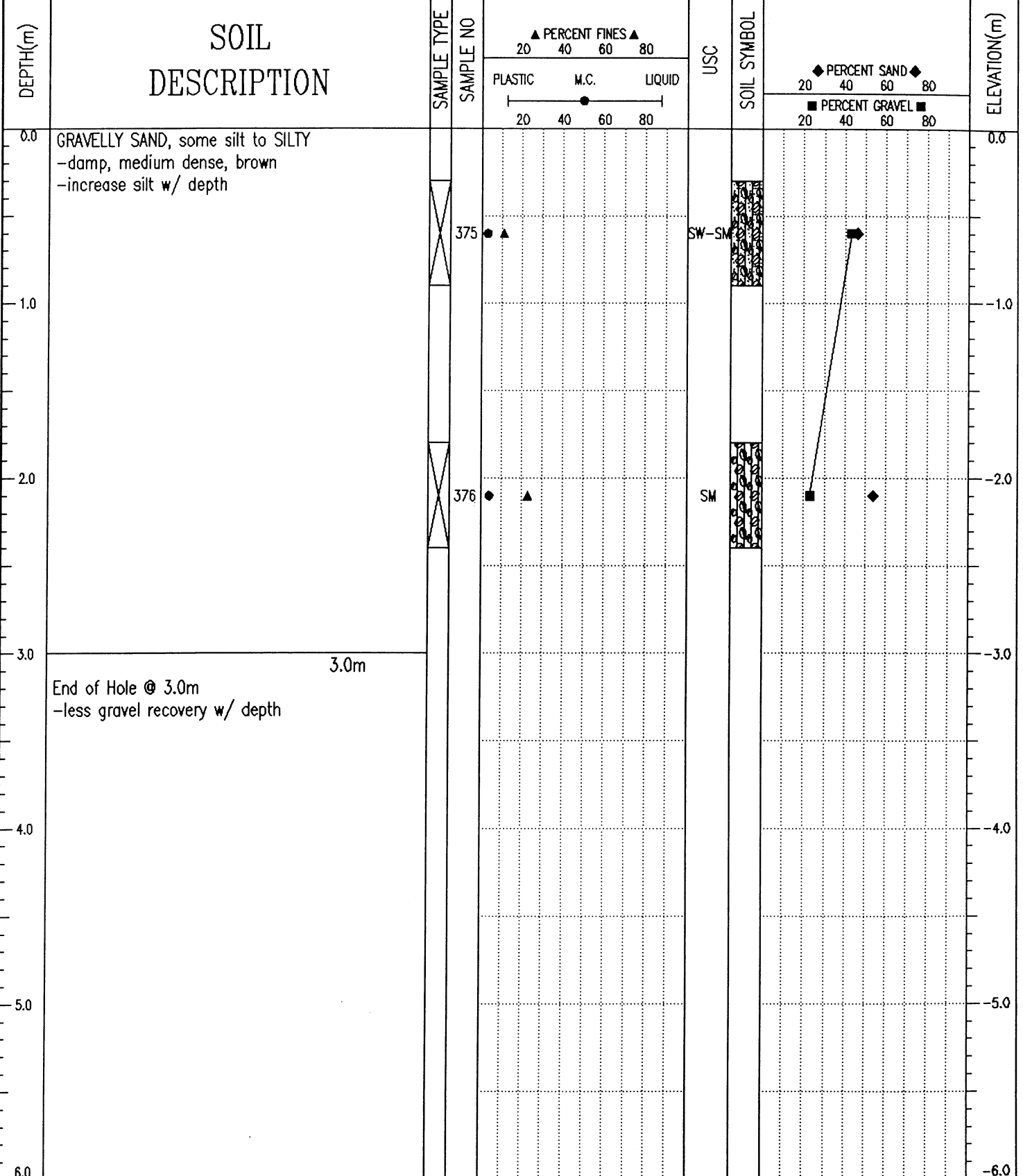


J. R. Paine & Associates Ltd.  
 Whitehorse, Yukon

LOGGED BY: RW	COMPLETION DEPTH: 3 m
REVIEWED BY:	COMPLETE: 08/18/04
Fig. No: 167	Page 1 of 1

Geotechnical Services	Km 1691.7 to 1717.3 Alaska Highway #1	TEST PIT NO: 30009
Donjek Services Ltd.	UTM ZONE: - N6768038 E642265	PROJECT NO: 8002-318
CME75 Drill on FN60 Flextrac Nodwell		ELEVATION:

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

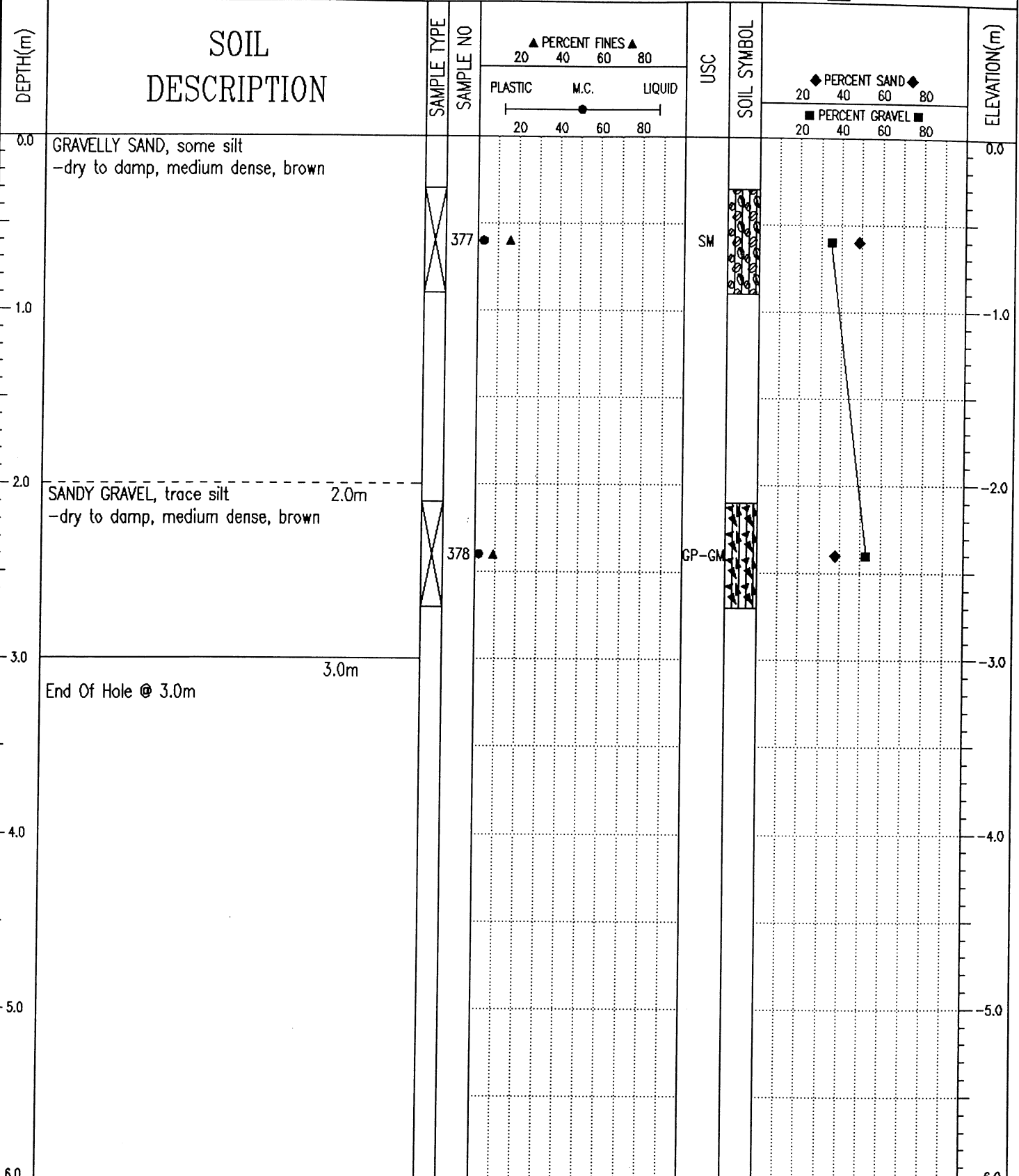


J. R. Paine & Associates Ltd.  
 Whitehorse, Yukon

LOGGED BY: RW	COMPLETION DEPTH: 3 m
REVIEWED BY:	COMPLETE: 08/18/04
Fig. No: 169	Page 1 of 1

Geotechnical Services	Km 1691.7 to 1717.3 Alaska Highway #1	TEST PIT NO: 30010
Donjek Services Ltd.	UTM ZONE: - N6768040 E642066	PROJECT NO: 8002-318
CME75 Drill on FN60 Flextrac Nodwell		ELEVATION:

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

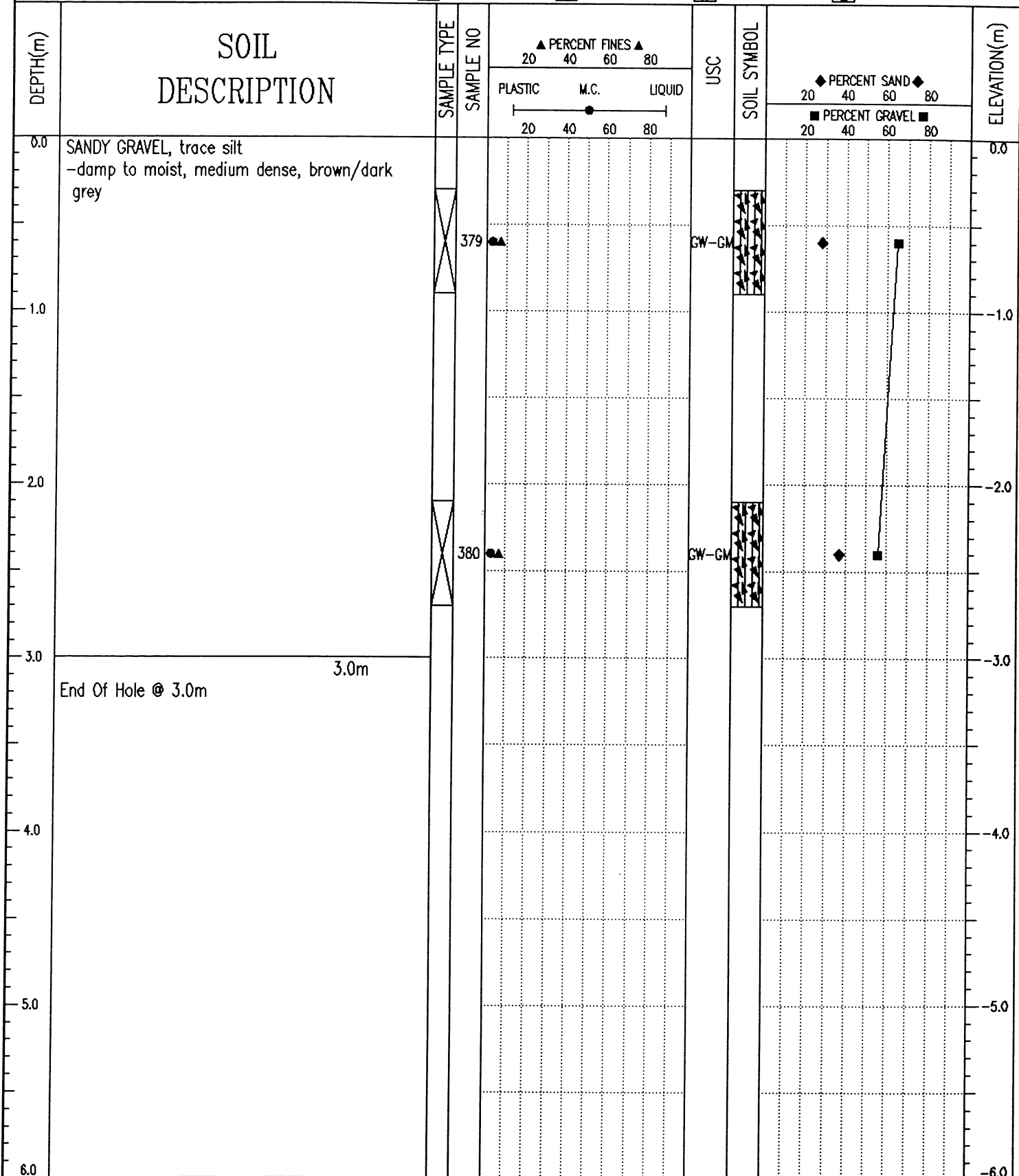


J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW	COMPLETION DEPTH: 3 m
REVIEWED BY: -	COMPLETE: 08/18/04
Fig. No: 170	Page 1 of 1

Geotechnical Services	Km 1691.7 to 1717.3 Alaska Highway #1	TEST PIT NO: 30011
Donjek Services Ltd.	UTM ZONE: - N6768044 E641865	PROJECT NO: 8002-318
CME75 Drill on FN60 Flextrac Nodwell		ELEVATION:

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

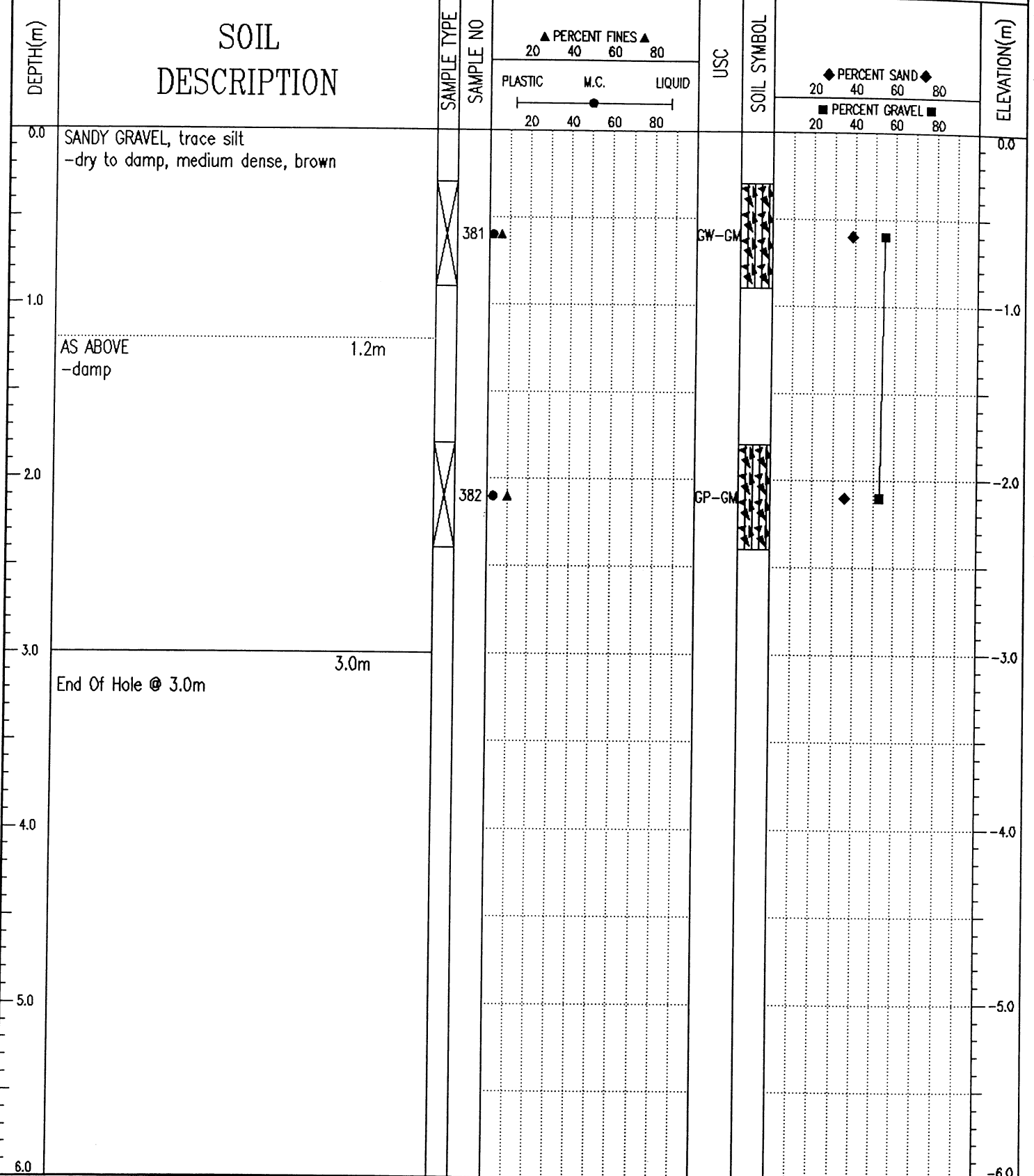


J. R. Paine & Associates Ltd.  
 Whitehorse, Yukon

LOGGED BY: RW  
 REVIEWED BY:  
 Fig. No: 171

COMPLETION DEPTH: 3 m  
 COMPLETE: 08/18/04

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

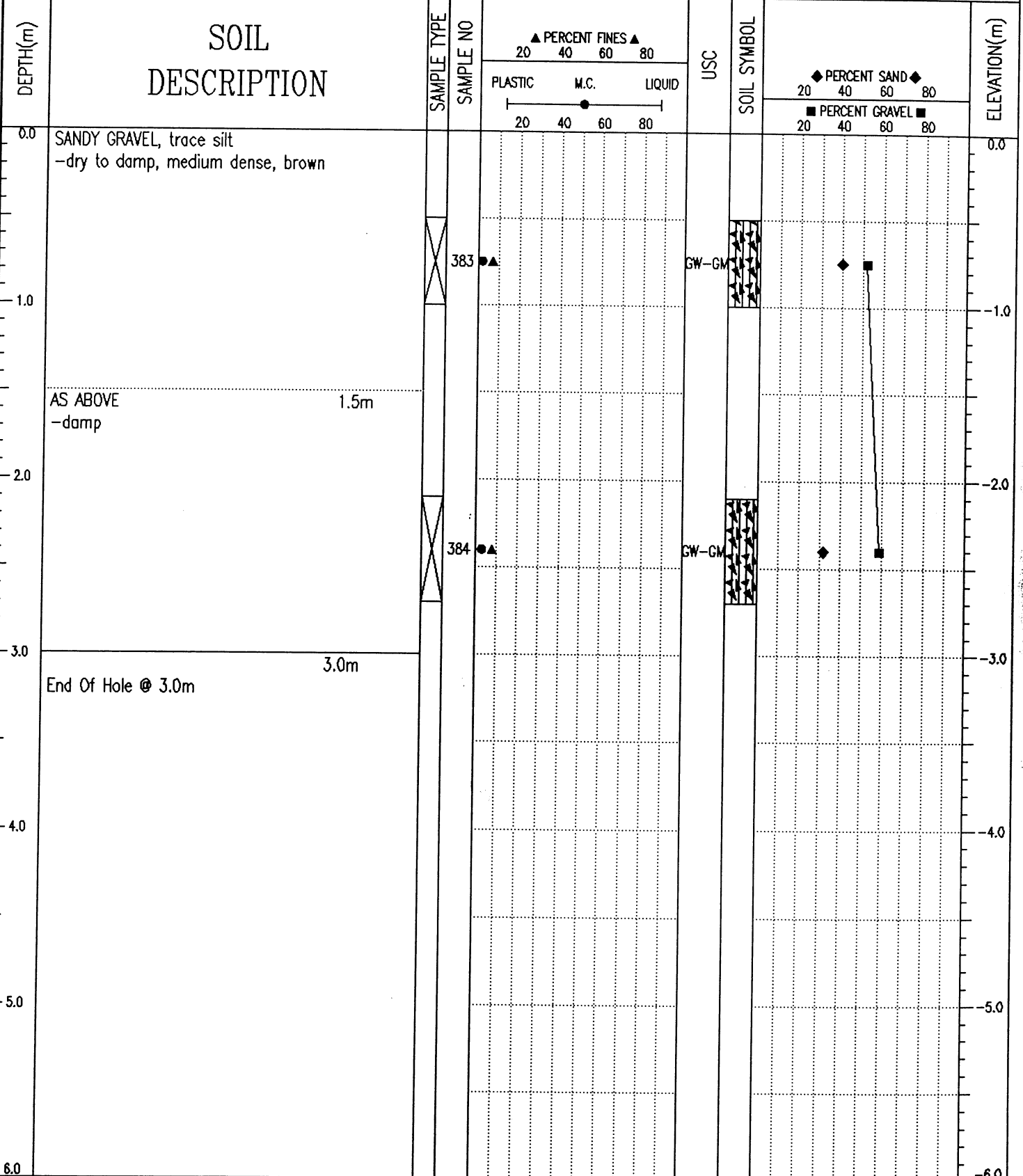


J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW	COMPLETION DEPTH: 3 m
REVIEWED BY: -	COMPLETE: 08/18/04
Fig. No: 172	Page 1 of 1

Geotechnical Services	Km 1691.7 to 1717.3 Alaska Highway #1	TEST PIT NO: 30013
Donjek Services Ltd.	UTM ZONE: - N6768054 E641469	PROJECT NO: 8002-318
CME75 Drill on FN60 Flextrac Nodwell		ELEVATION:

SAMPLE TYPE    RETURN    S.P.T.    AUGER    BULK    TUBE    CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

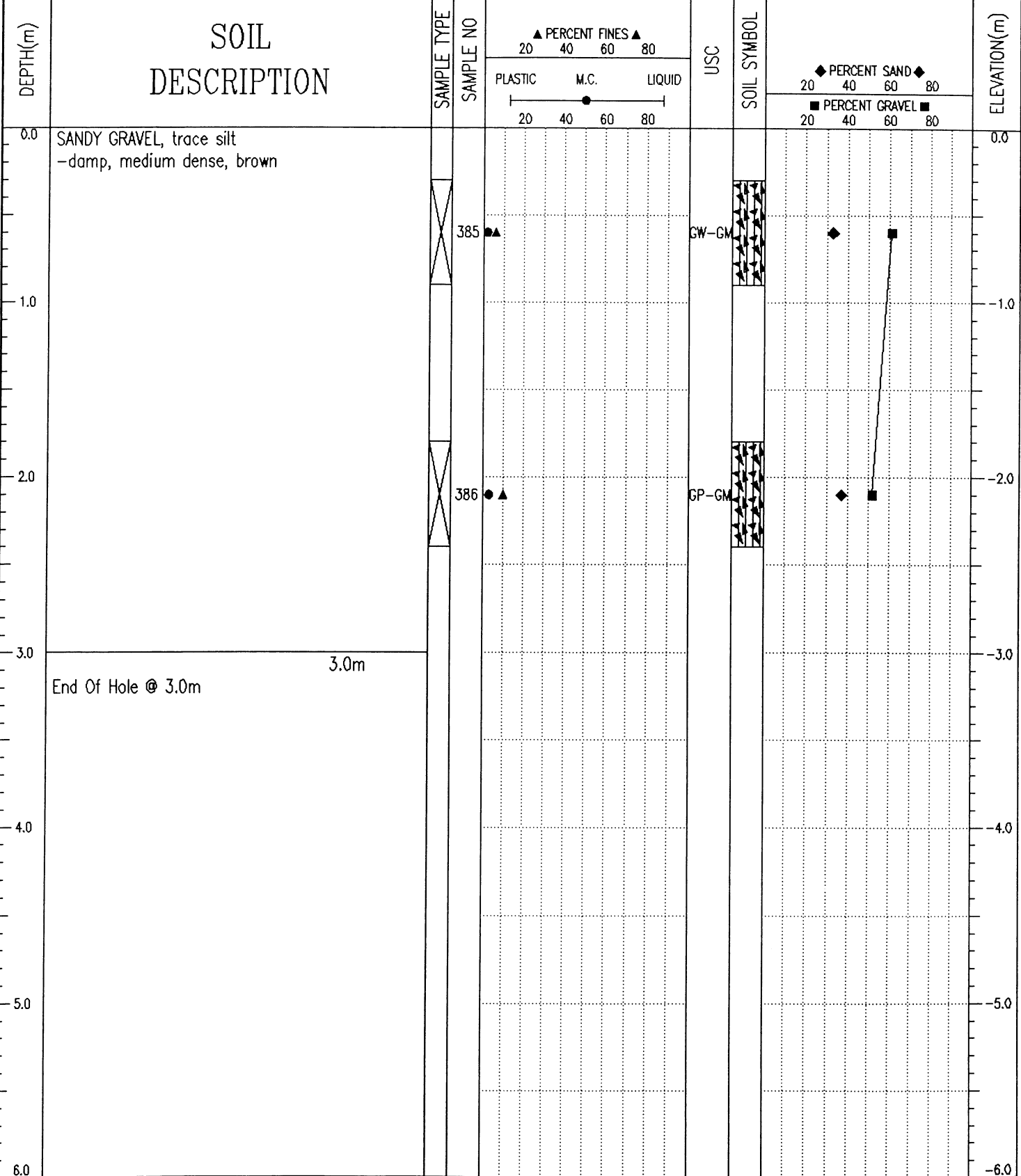
LOGGED BY: RW	COMPLETION DEPTH: 3 m
REVIEWED BY: -	COMPLETE: 08/18/04
Fig. No: 173	Page 1 of 1

Geotechnical Services Km 1691.7 to 1717.3 Alaska Highway #1 TEST PIT NO: 30014

Donjek Services Ltd. UTM ZONE: - N6768036 E641287 PROJECT NO: 8002-318

CME75 Drill on FN60 Flextrac Nodwell ELEVATION:

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

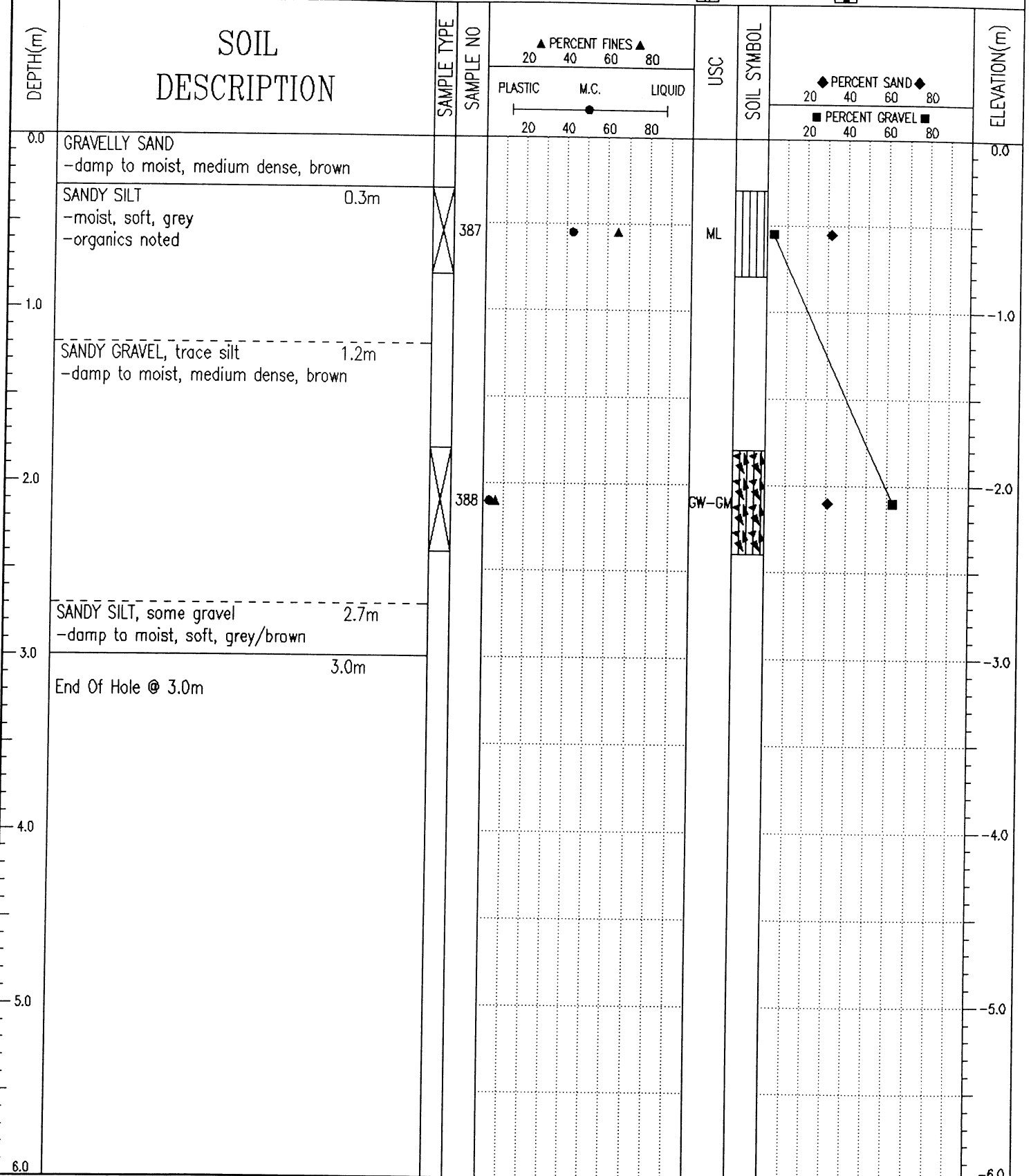


J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW  
REVIEWED BY: -  
Fig. No: 174

COMPLETION DEPTH: 3 m  
COMPLETE: 08/18/04  
Page 1 of 1

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

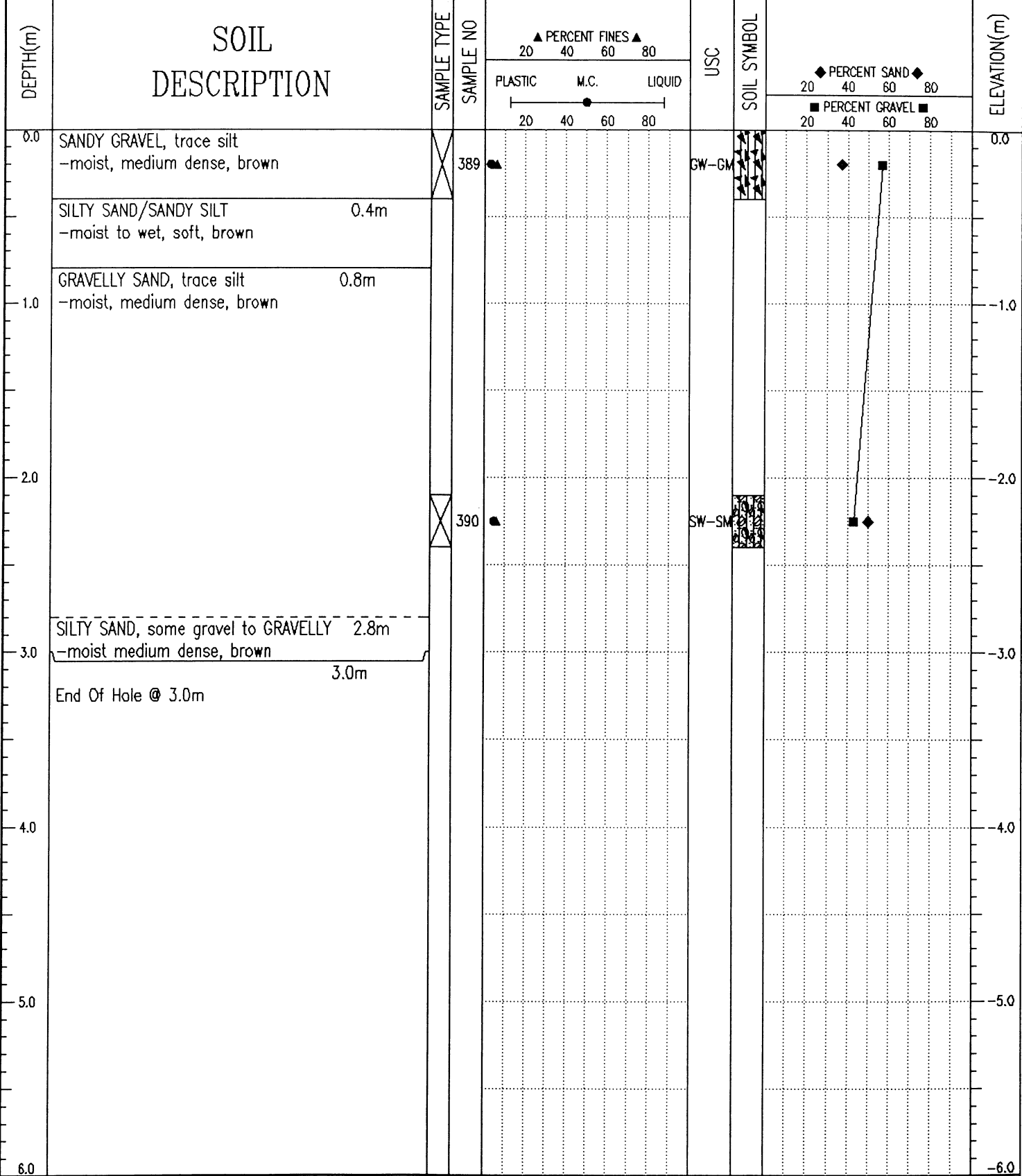
LOGGED BY: RW	COMPLETION DEPTH: 3 m
REVIEWED BY: -	COMPLETE: 08/18/04
Fig. No: 175	Page 1 of 1

Geotechnical Services Km 1691.7 to 1717.3 Alaska Highway #1 TEST PIT NO: 30016

Donjek Services Ltd. UTM ZONE: - N6767966 E641012 PROJECT NO: 8002-318

CME75 Drill on FN60 Flextrac Nodwell ELEVATION:

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

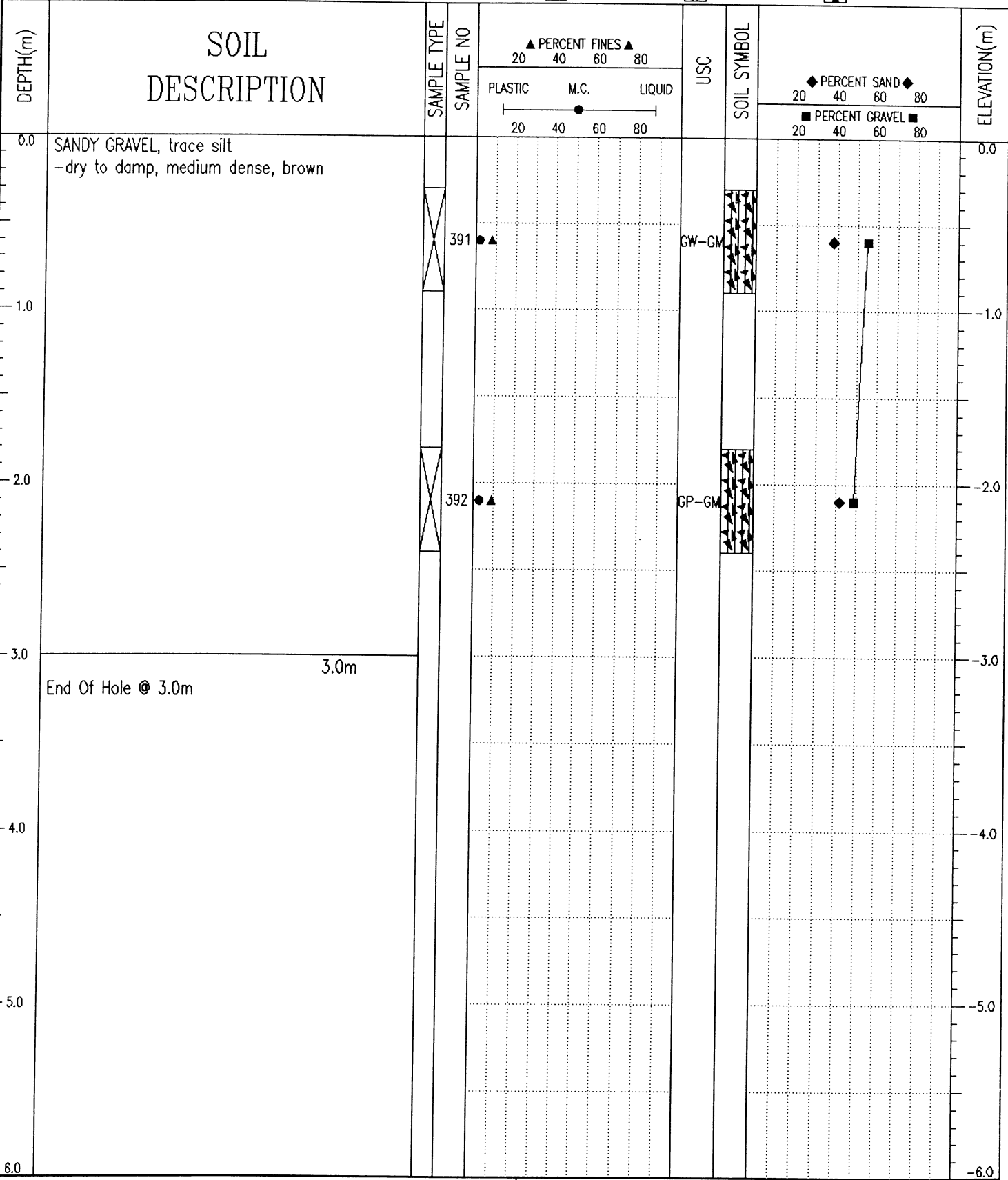


J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW  
REVIEWED BY: -  
Fig. No: 176  
COMPLETION DEPTH: 3 m  
COMPLETE: 08/18/04  
Page 1 of 1

05/02/23 02:38PM (YIC\_JHYS)

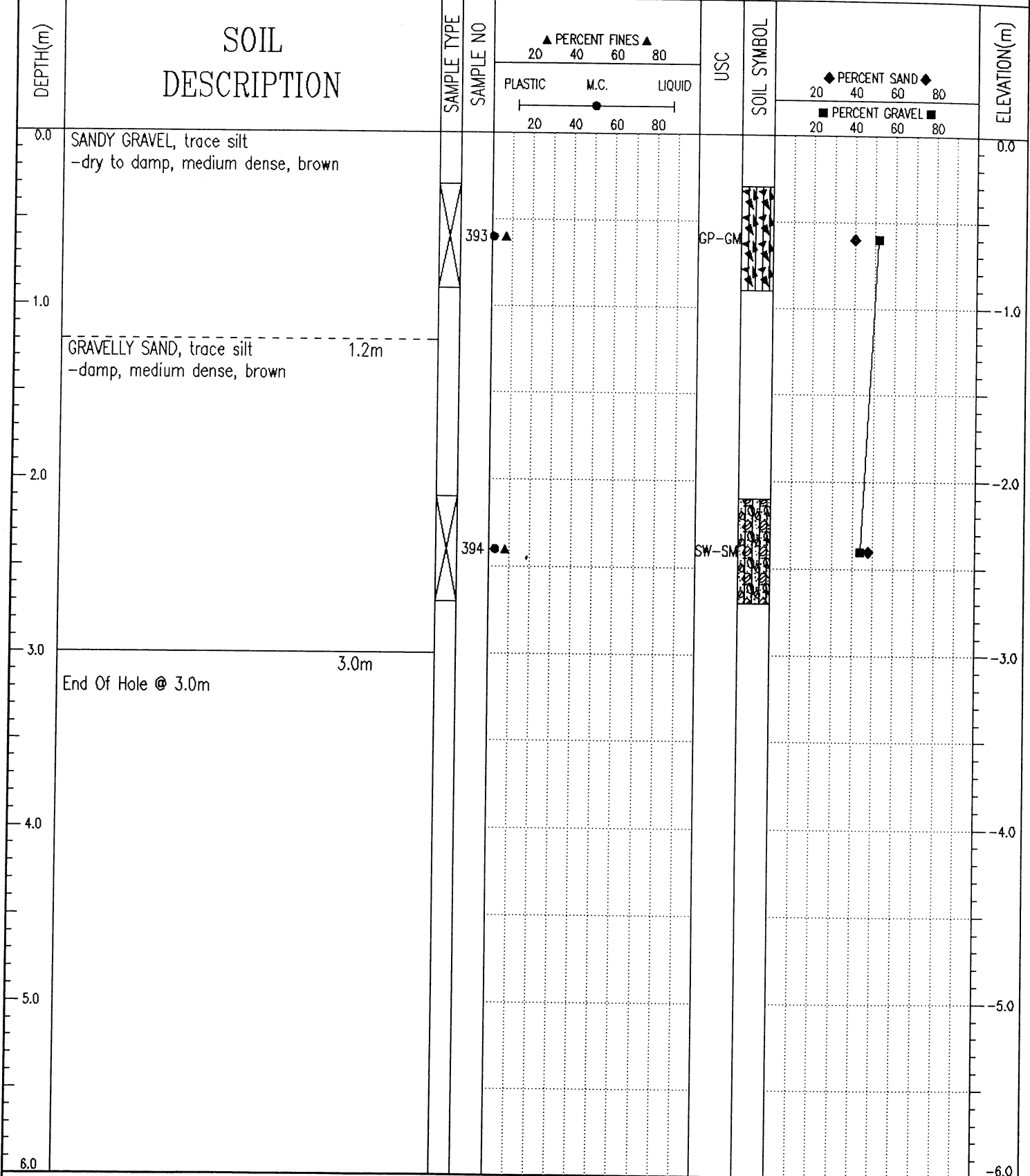
SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW	COMPLETION DEPTH: 3 m
REVIEWED BY: -	COMPLETE: 08/18/04
Fig. No: 177	Page 1 of 1

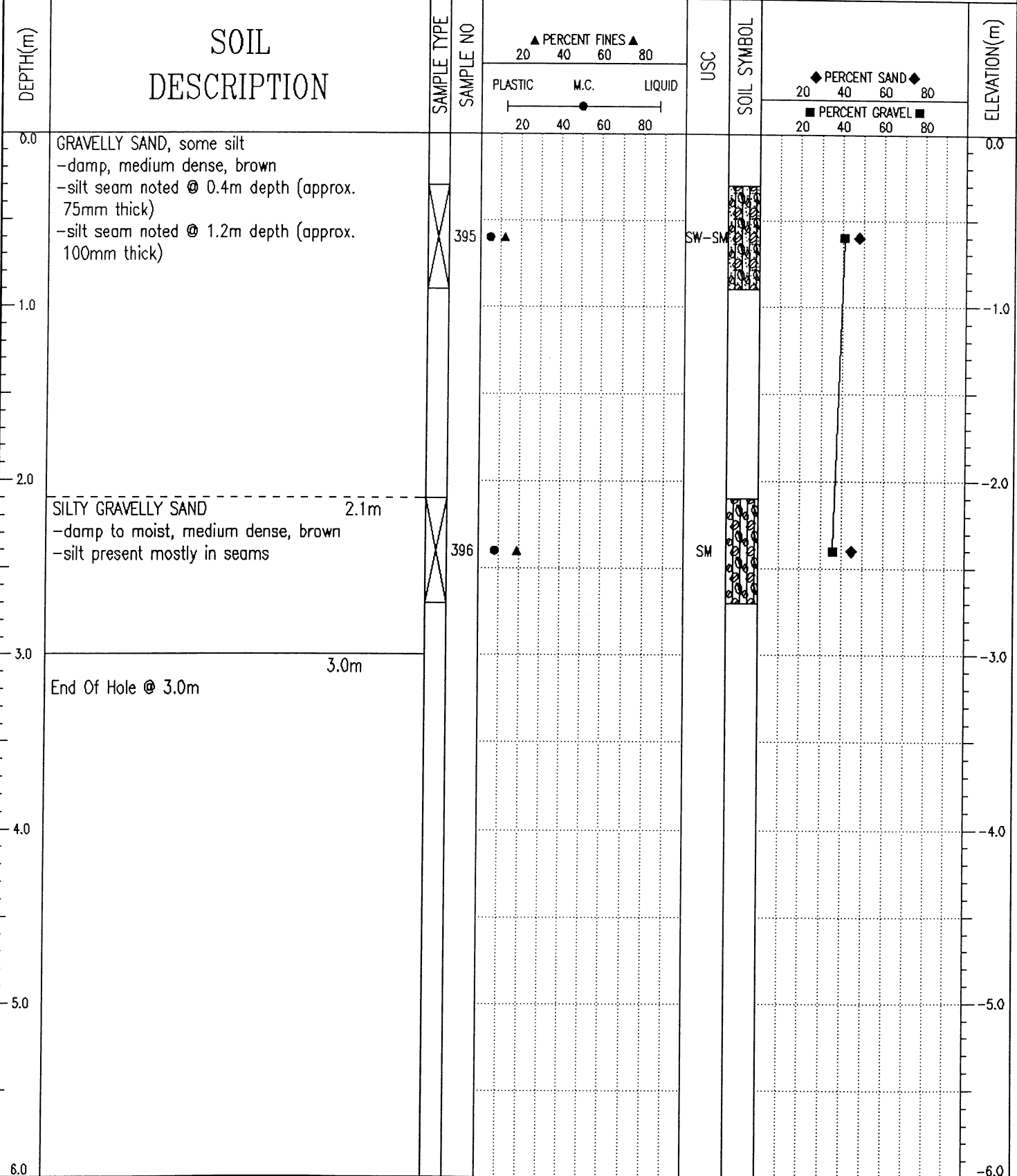
SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW	COMPLETION DEPTH: 3 m
REVIEWED BY: -	COMPLETE: 08/18/04
Fig. No: 178	Page 1 of 1

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW	COMPLETION DEPTH: 3 m
REVIEWED BY: -	COMPLETE: 08/18/04
Fig. No: 179	Page 1 of 1

Geotechnical Services		Km 1691.7 to 1717.3 Alaska Highway #1		TEST PIT NO: 30020						
Donjek Services Ltd.		UTM ZONE: - N6767452 E640351		PROJECT NO: 8002-318						
CME75 Drill on FN60 Flextrac Nodwell				ELEVATION:						
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE										
DEPTH(m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲		USC	SOIL SYMBOL	PERCENT SAND ◆		ELEVATION(m)
				PLASTIC	M.C.			LIQUID	PERCENT GRAVEL ■	
0.0	GRAVELLY SAND, trace silt -damp to moist, medium dense, brown									0.0
1.0	SANDY GRAVEL 0.9m -wet to saturated -pea gravels		397				SW-SM			-1.0
2.0	SILT, some sand 1.5m -moist to wet, firm, grey -significant organics throughout (decomposed rootlets/grasses etc.)		398				ML			-2.0
3.0	End Of Hole @ 3.0m 3.0m									-3.0
4.0										-4.0
5.0										-5.0
6.0										-6.0

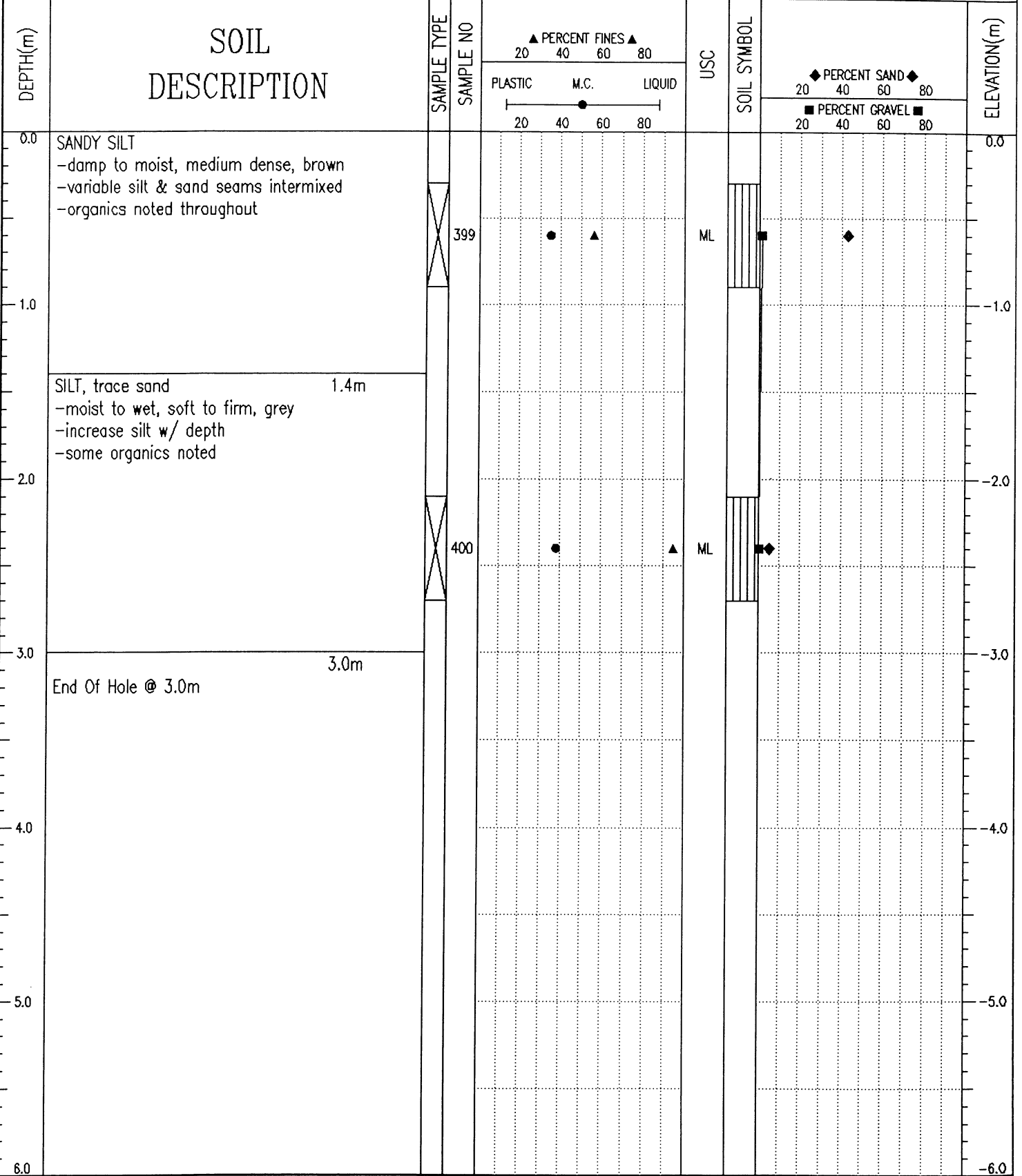
J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW  
REVIEWED BY: -  
Fig. No: 180

COMPLETION DEPTH: 3 m  
COMPLETE: 08/18/04

Geotechnical Services	Km 1691.7 to 1717.3 Alaska Highway #1	TEST PIT NO: 30021
Donjek Services Ltd.	UTM ZONE: - N6767340 E640194	PROJECT NO: 8002-318
CME75 Drill on FN60 Flextrac Nodwell		ELEVATION:

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW  
REVIEWED BY:  
Fig. No: 181

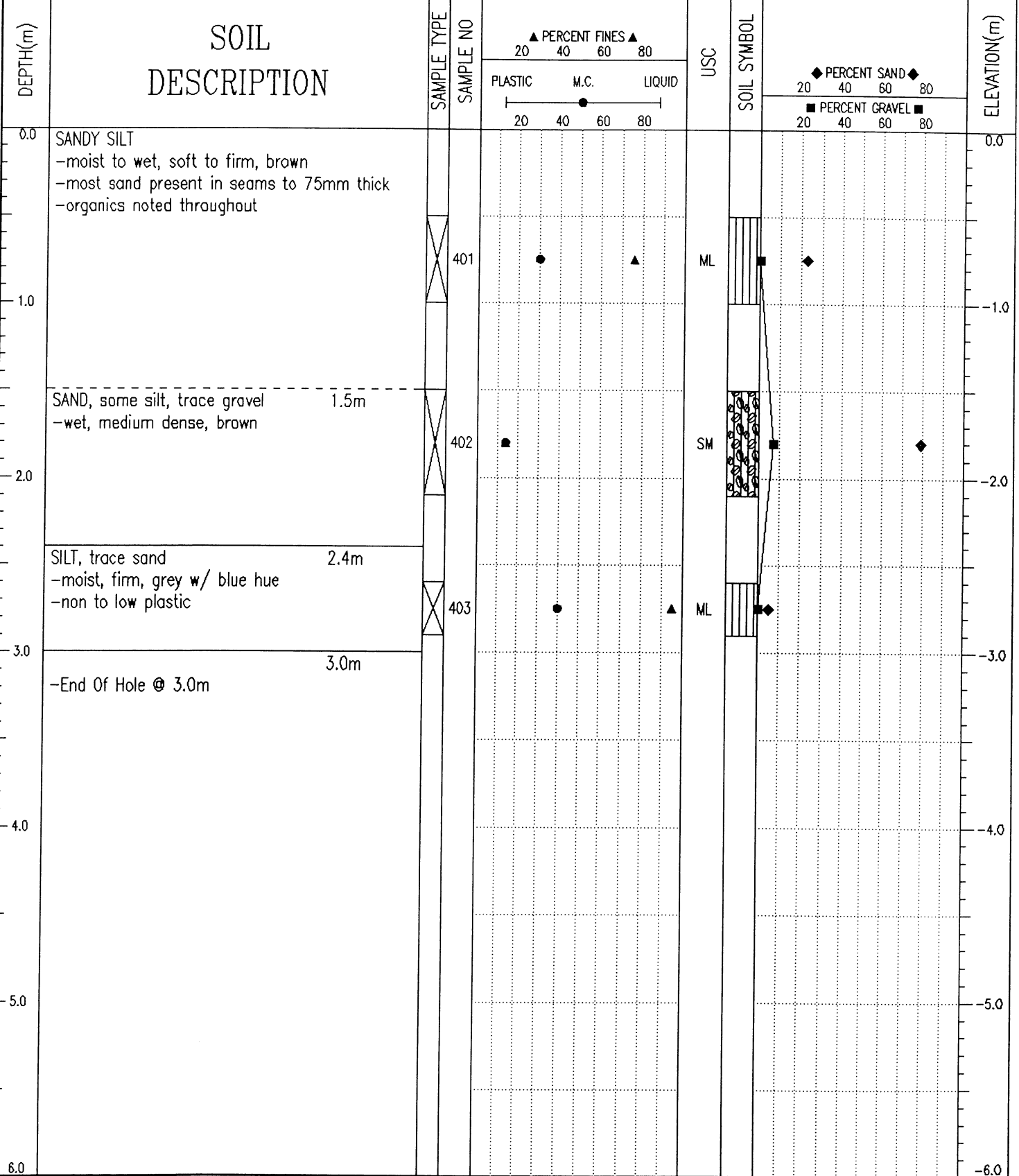
COMPLETION DEPTH: 3 m  
COMPLETE: 08/18/04

Geotechnical Services Km 1691.7 to 1717.3 Alaska Highway #1 TEST PIT NO: 30022

Donjek Services Ltd. UTM ZONE: - N6767232 E640041 PROJECT NO: 8002-318

CME75 Drill on FN60 Flextrac Nodwell ELEVATION:

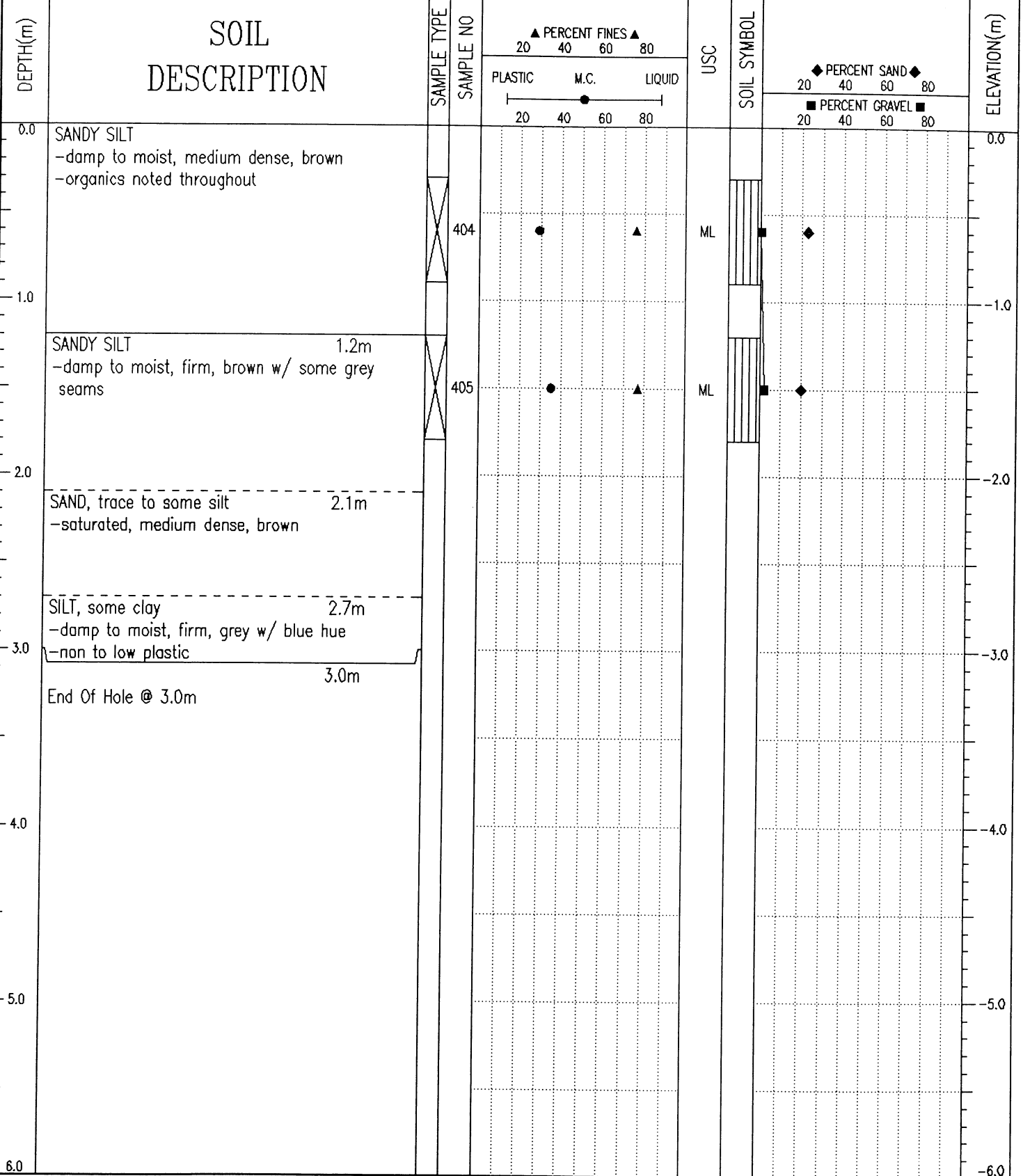
SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW  
REVIEWED BY: -  
Fig. No: 182  
COMPLETION DEPTH: 3 m  
COMPLETE: 08/18/04  
Page 1 of 1

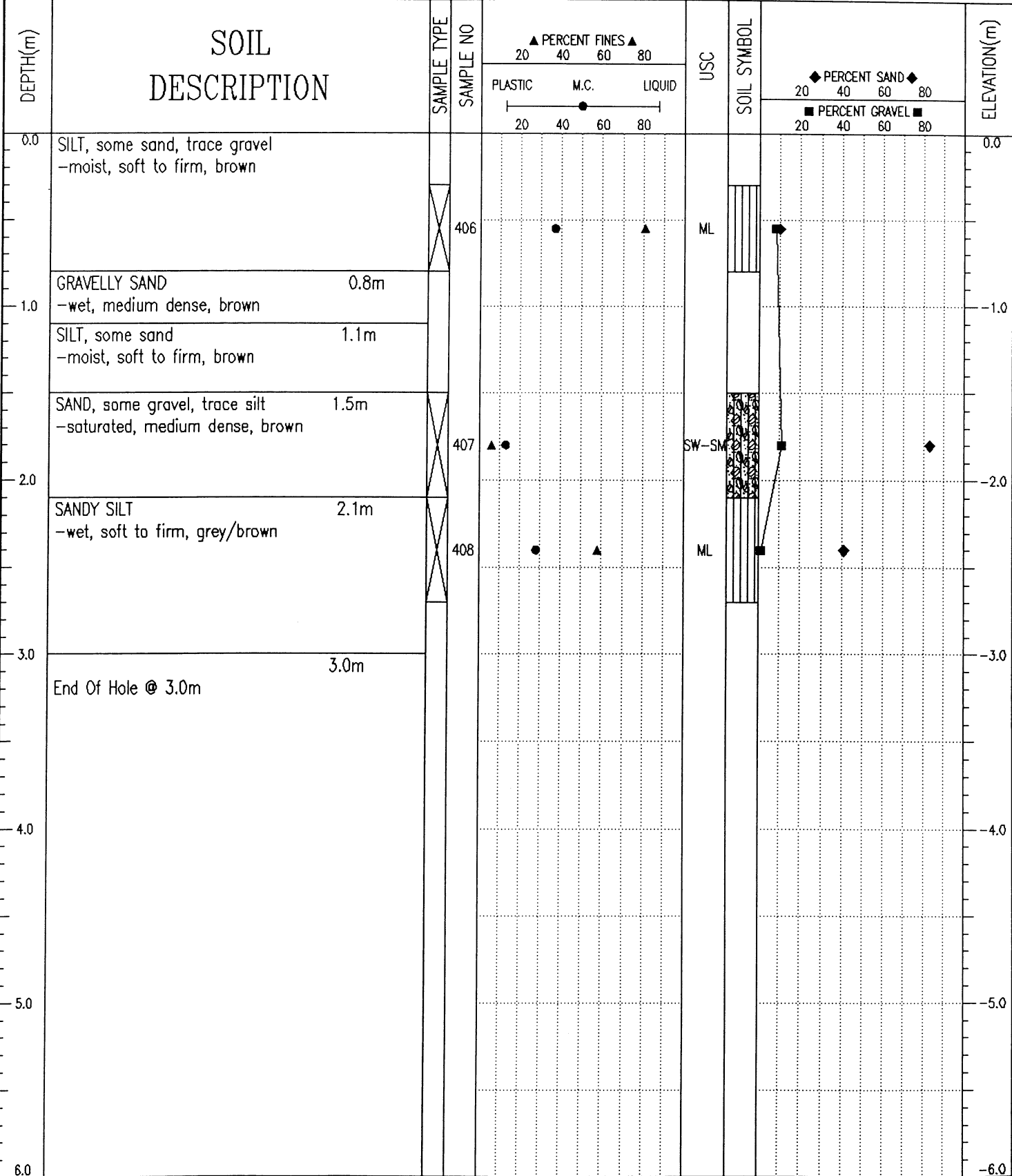
SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

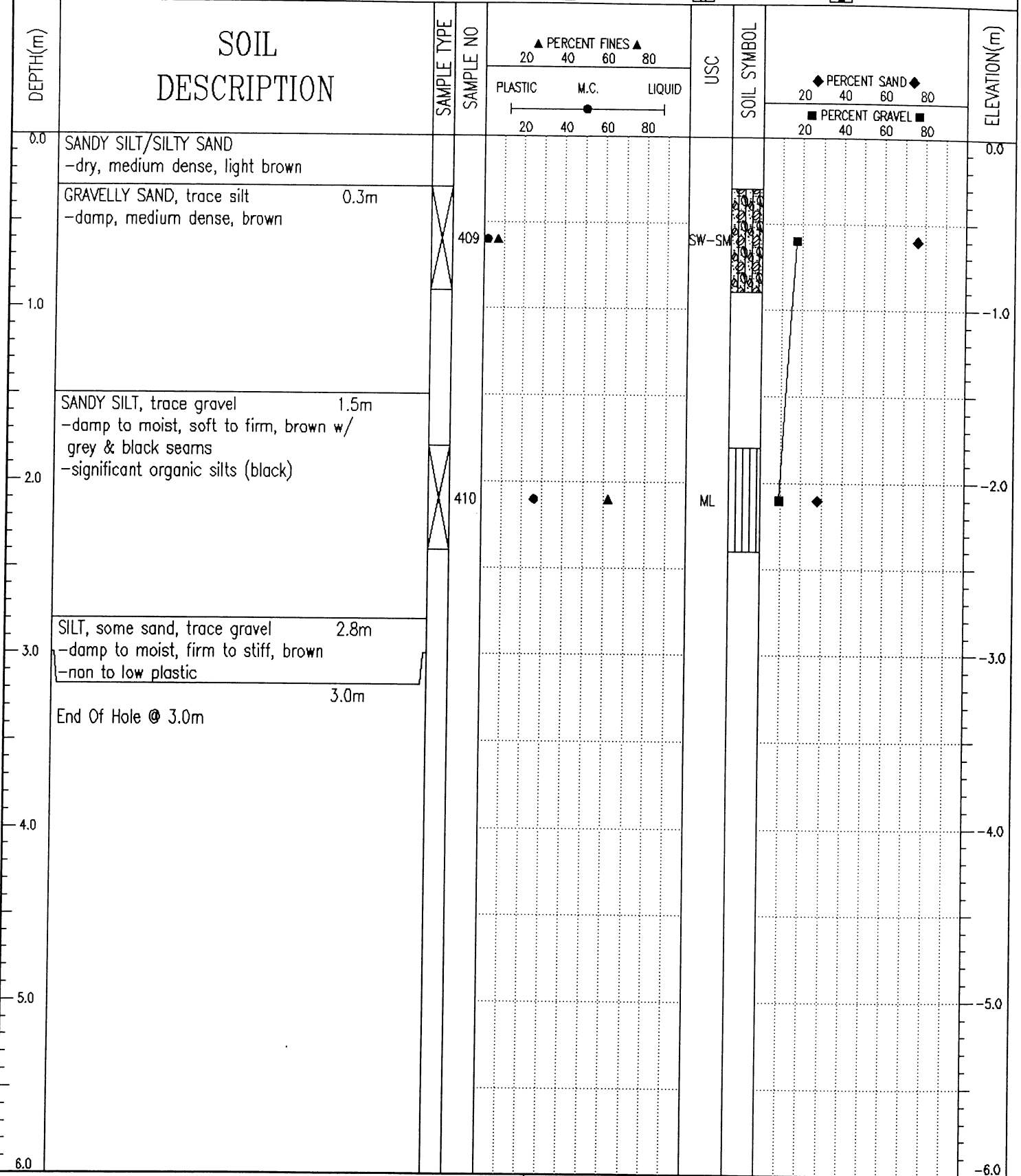
LOGGED BY: RW	COMPLETION DEPTH: 3 m
REVIEWED BY: -	COMPLETE: 08/18/04
Fig. No: 183	Page 1 of 1

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



85/02/23 02:37PM (116\_HWS)

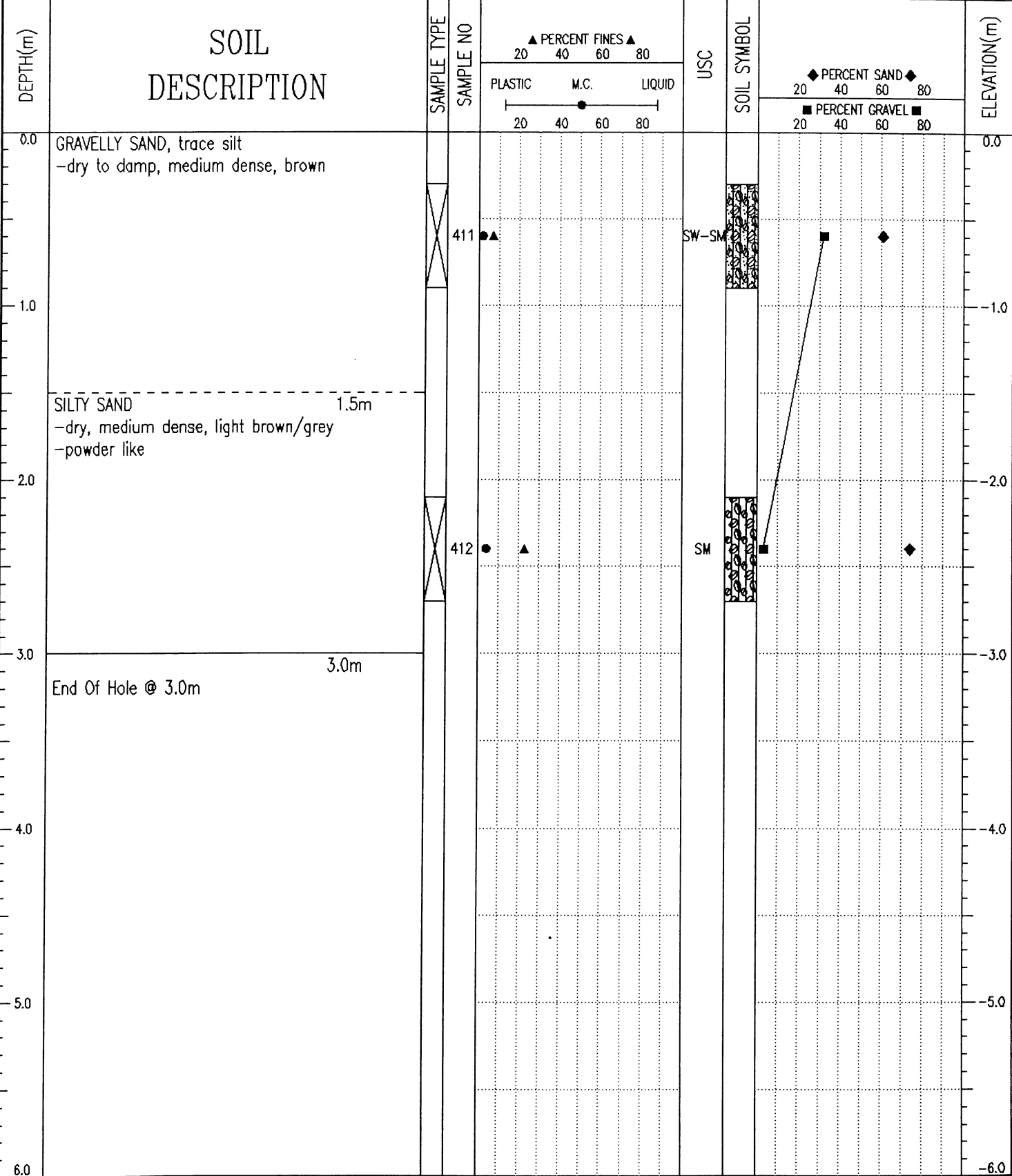
SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW	COMPLETION DEPTH: 3 m
REVIEWED BY: -	COMPLETE: 08/18/04
Fig. No: 185	Page 1 of 1

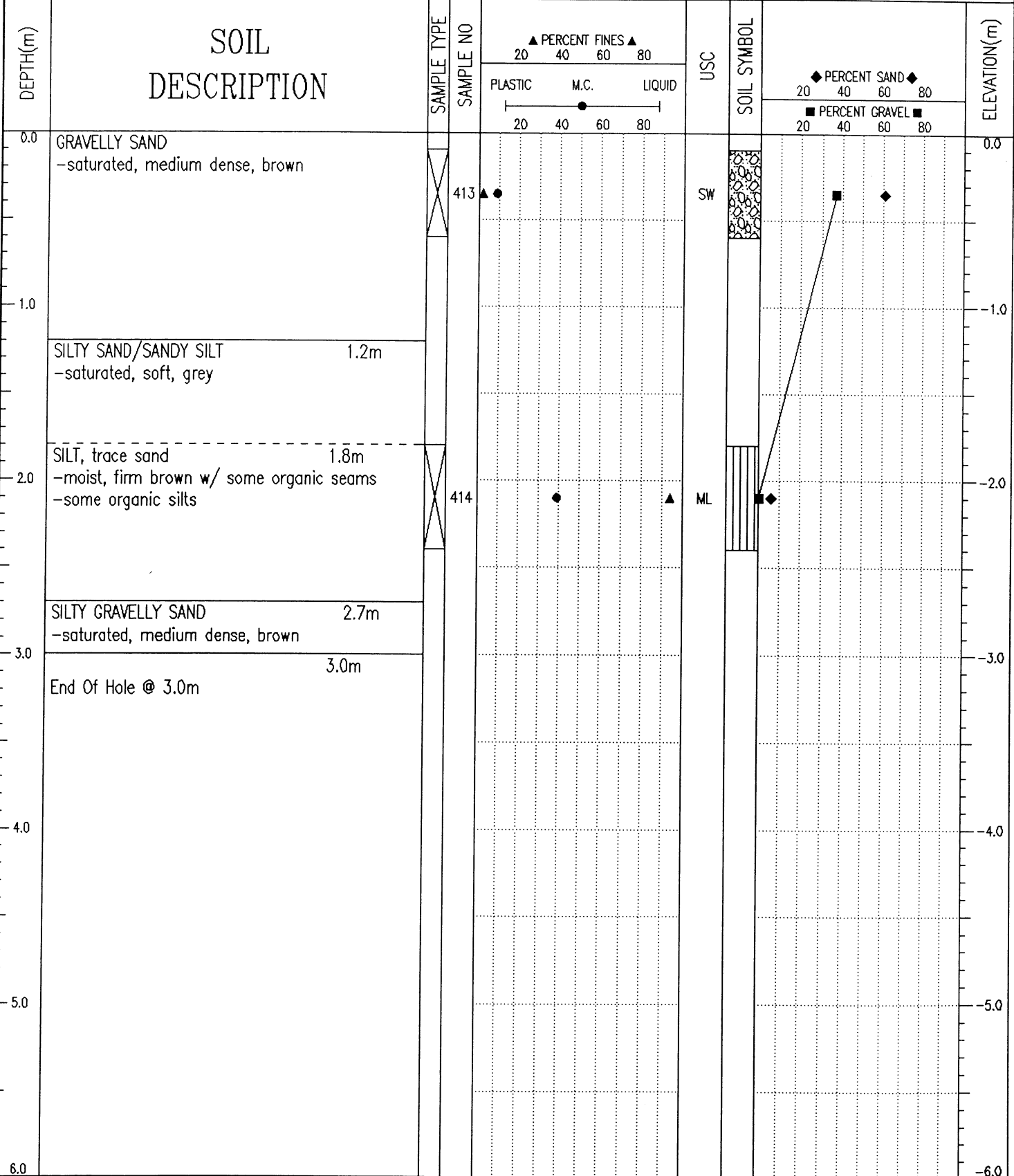
SAMPLE TYPE    RETURN    S.P.T.    AUGER    BULK    TUBE    CORE



85/02/23 02:37PM (YIG\_HWYS)

Geotechnical Services	Km 1691.7 to 1717.3 Alaska Highway #1	TEST PIT NO: 30027
Donjek Services Ltd.	UTM ZONE: - N6766735 E639213	PROJECT NO: 8002-318
CME75 Drill on FN60 Flextrac Nodwell		ELEVATION:

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

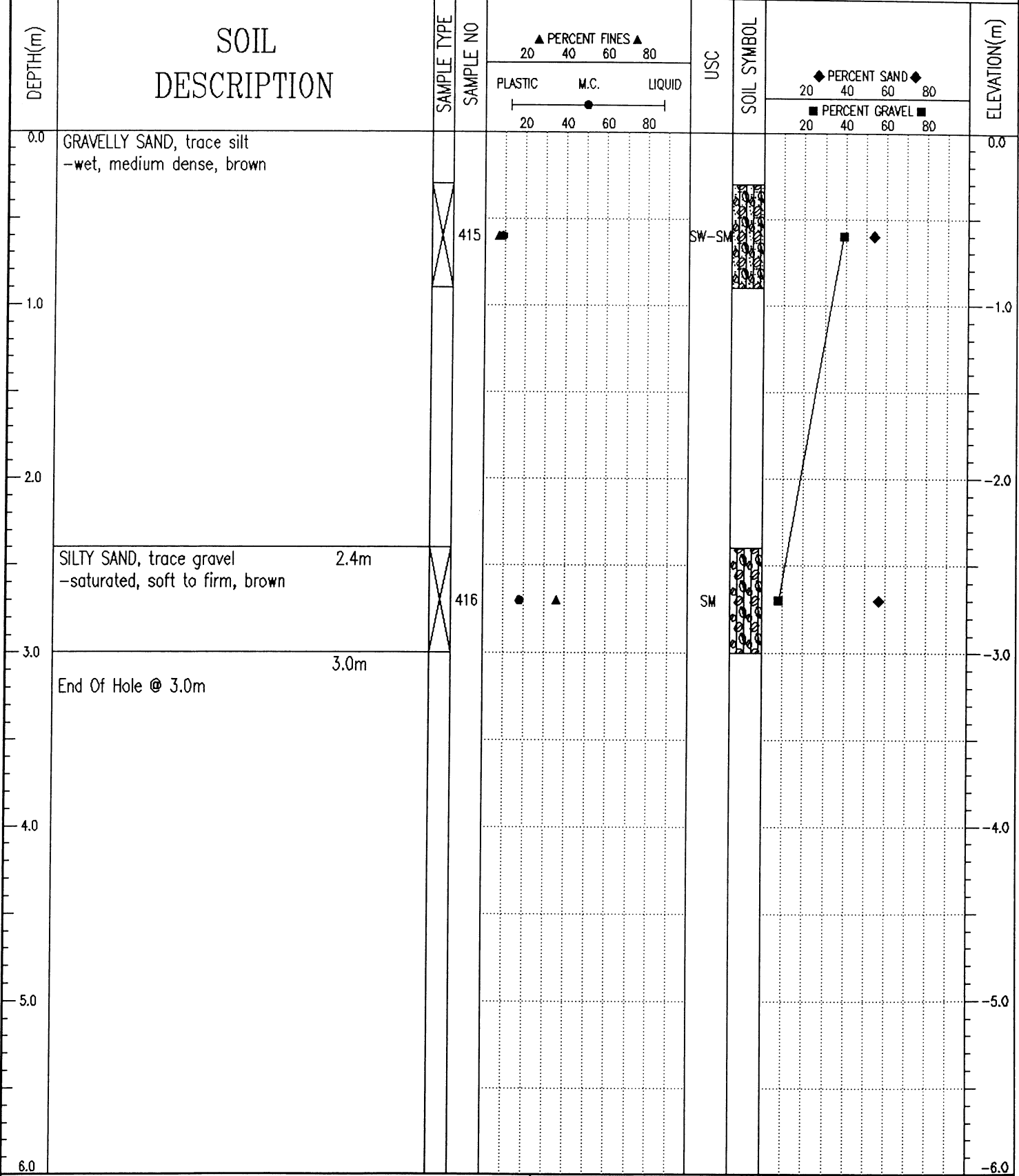
LOGGED BY: RW	COMPLETION DEPTH: 3 m
REVIEWED BY: -	COMPLETE: 08/19/04
Fig. No: 187	Page 1 of 1

Geotechnical Services Km 1691.7 to 1717.3 Alaska Highway #1 TEST PIT NO: 30028

Donjek Services Ltd. UTM ZONE: - N6766708 E639229 PROJECT NO: 8002-318

CME75 Drill on FN60 Flextrac Nodwell ELEVATION:

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW

REVIEWED BY:

Fig. No: 188

COMPLETION DEPTH: 3 m

COMPLETE: 08/19/04

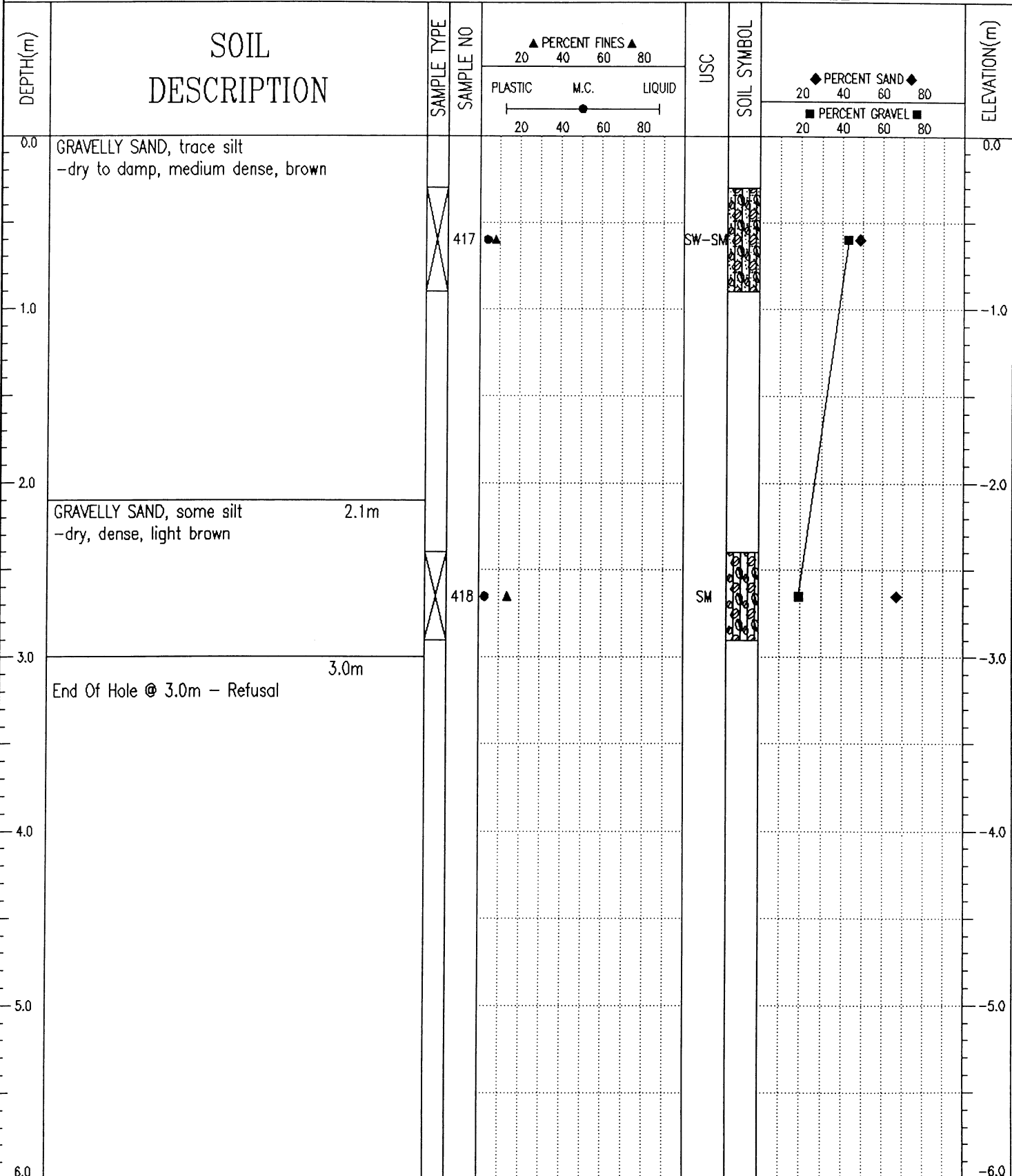
Page 1 of 1

Geotechnical Services Km 1691.7 to 1717.3 Alaska Highway #1 TEST PIT NO: 30029

Donjek Services Ltd. UTM ZONE: - N6766653 E639106 PROJECT NO: 8002-318

CME75 Drill on FN60 Flextrac Nodwell ELEVATION:

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

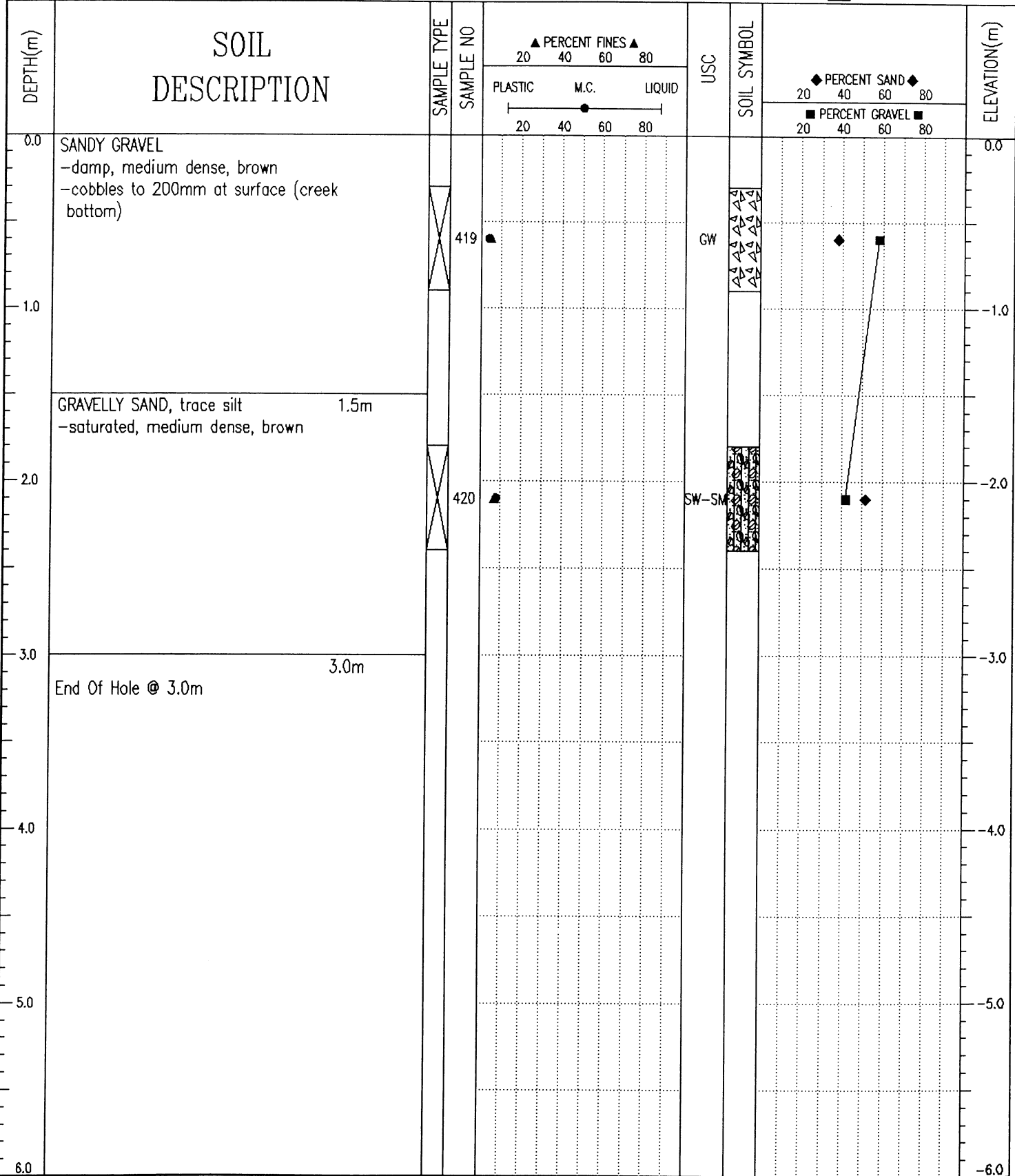
LOGGED BY: RW COMPLETION DEPTH: 3 m  
 REVIEWED BY: - COMPLETE: 08/19/04  
 Fig. No: 189 Page 1 of 1

Geotechnical Services Km 1691.7 to 1717.3 Alaska Highway #1 TEST PIT NO: 30030

Donjek Services Ltd. UTM ZONE: - N6766547 E638909 PROJECT NO: 8002-318

CME75 Drill on FN60 Flextrac Nodwell ELEVATION:

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW

REVIEWED BY:

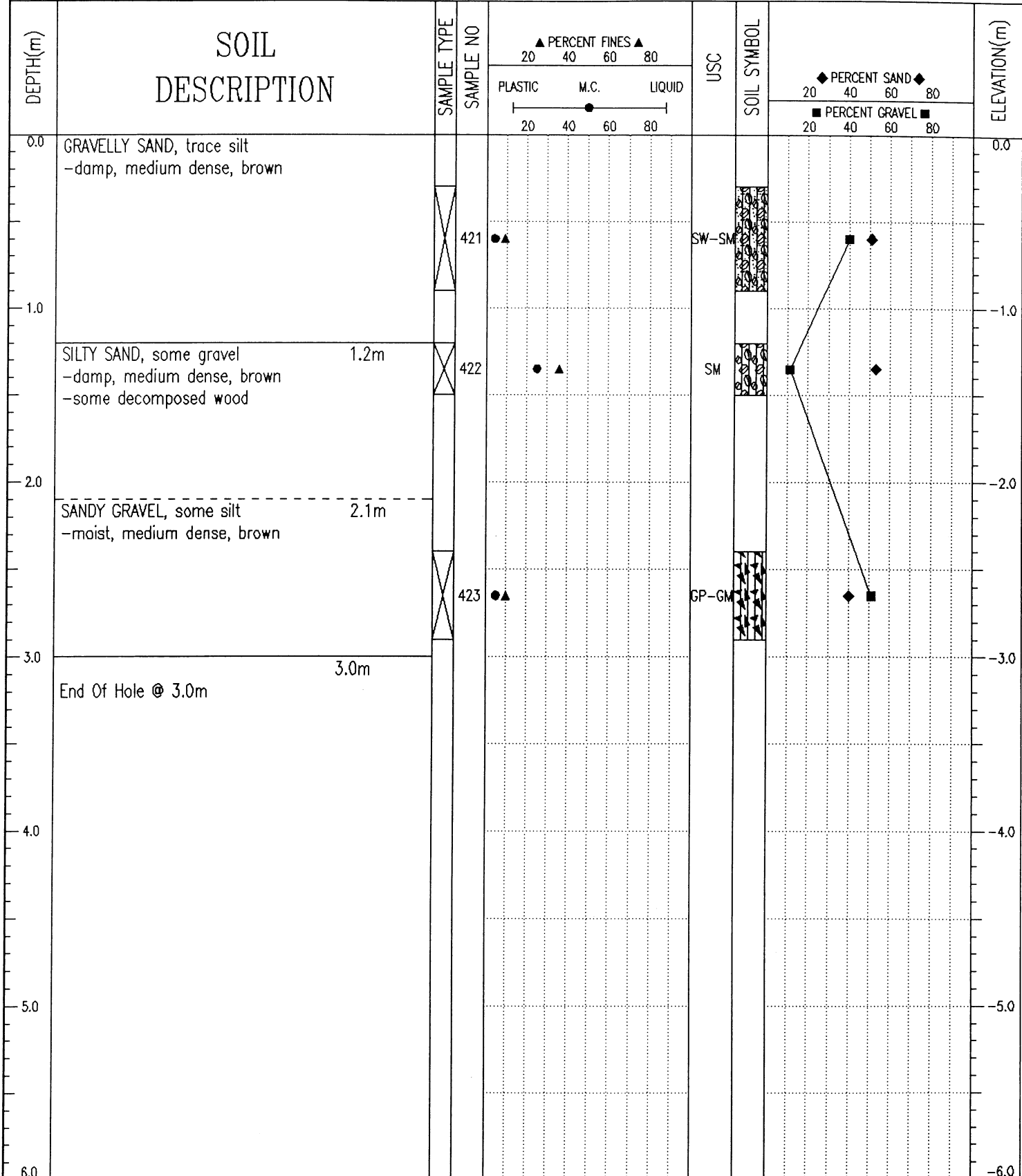
Fig. No: 190

COMPLETION DEPTH: 3 m

COMPLETE: 08/19/04

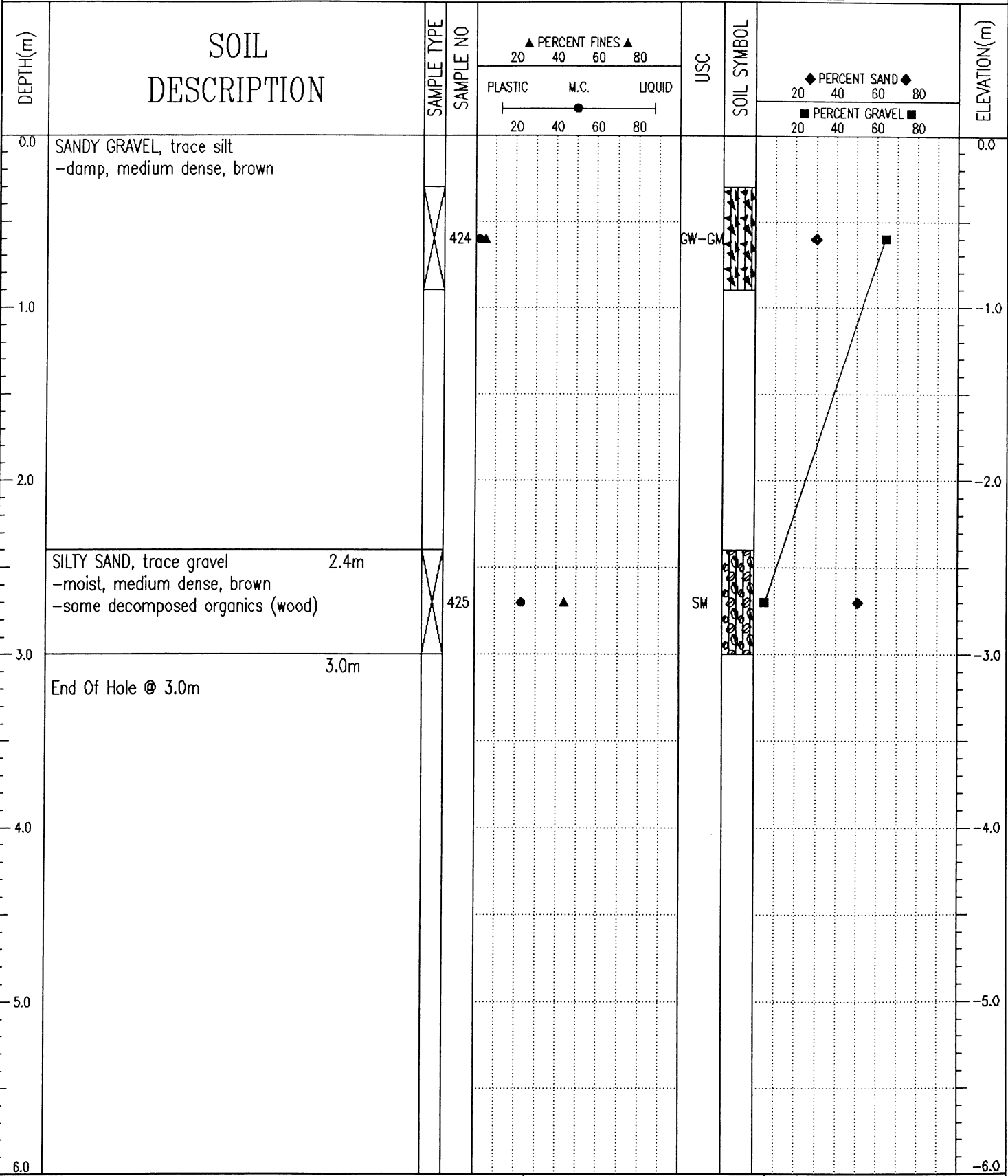
Page 1 of 1

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



<b>J. R. Paine &amp; Associates Ltd.</b> Whitehorse, Yukon	LOGGED BY: RW REVIEWED BY: - Fig. No: 191	COMPLETION DEPTH: 3 m COMPLETE: 08/19/04
---	---	---

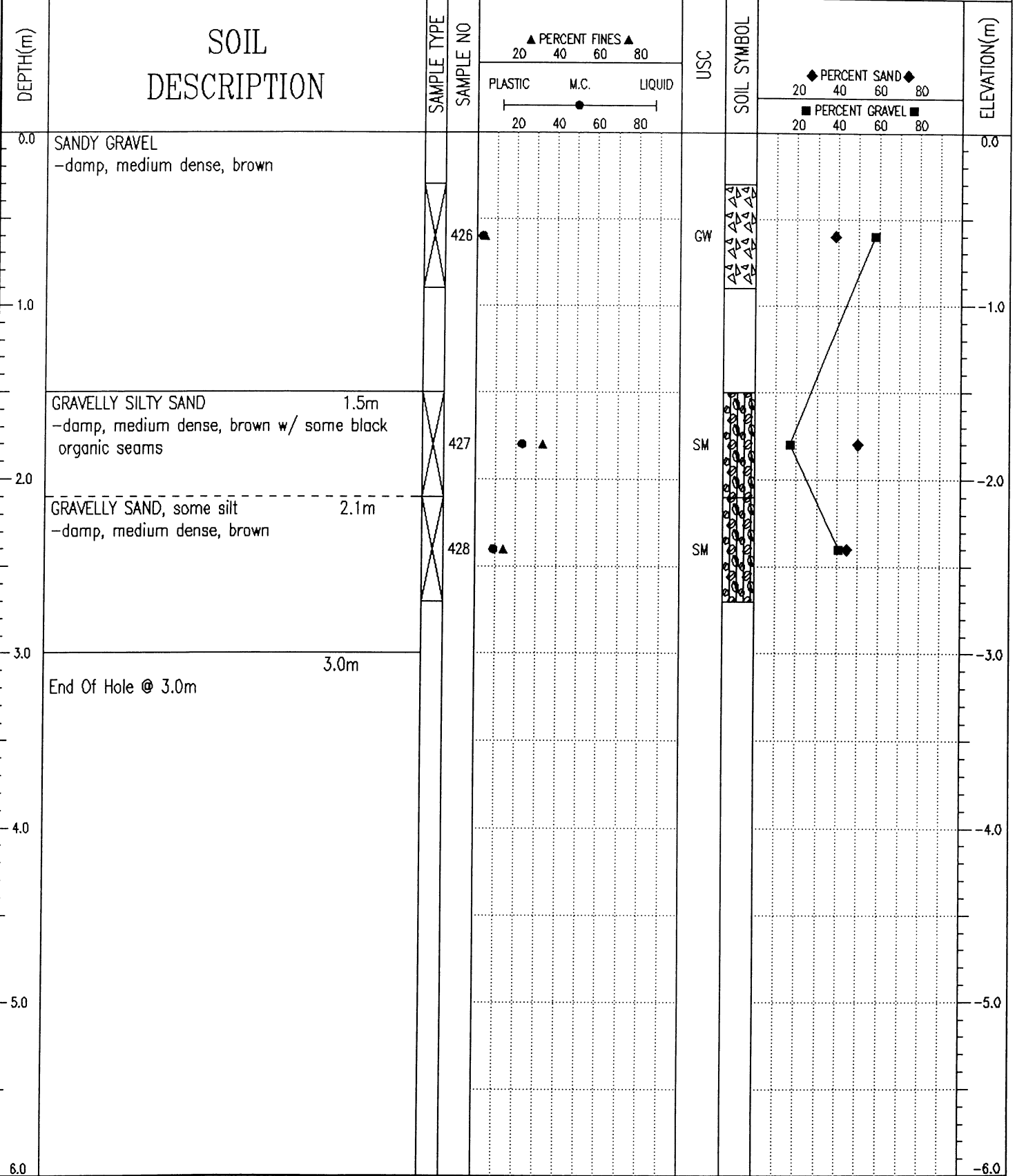
SAMPLE TYPE    RETURN    S.P.T.    AUGER    BULK    TUBE    CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW	COMPLETION DEPTH: 3 m
REVIEWED BY: -	COMPLETE: 08/19/04
Fig. No: 192	Page 1 of 1

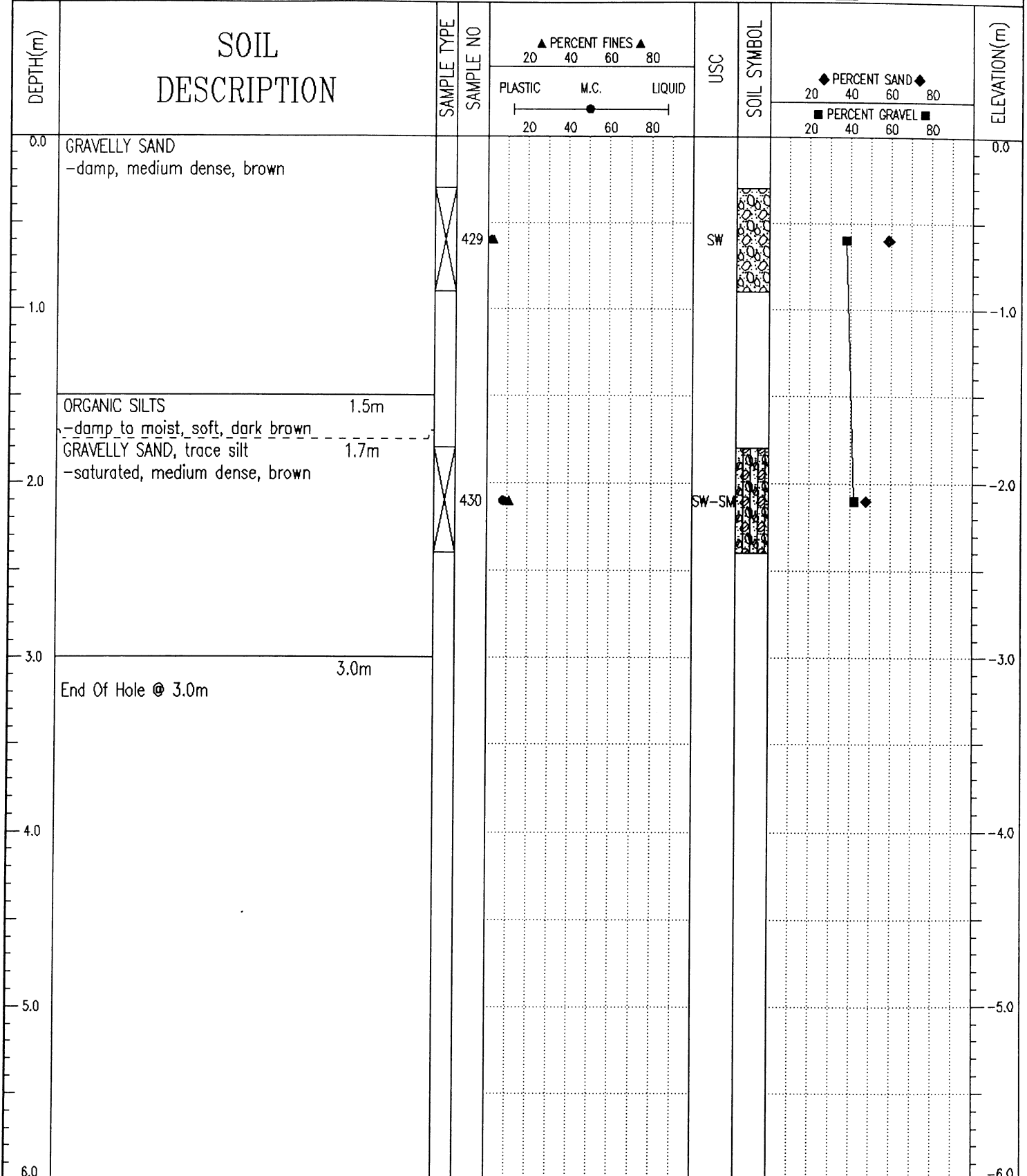
SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



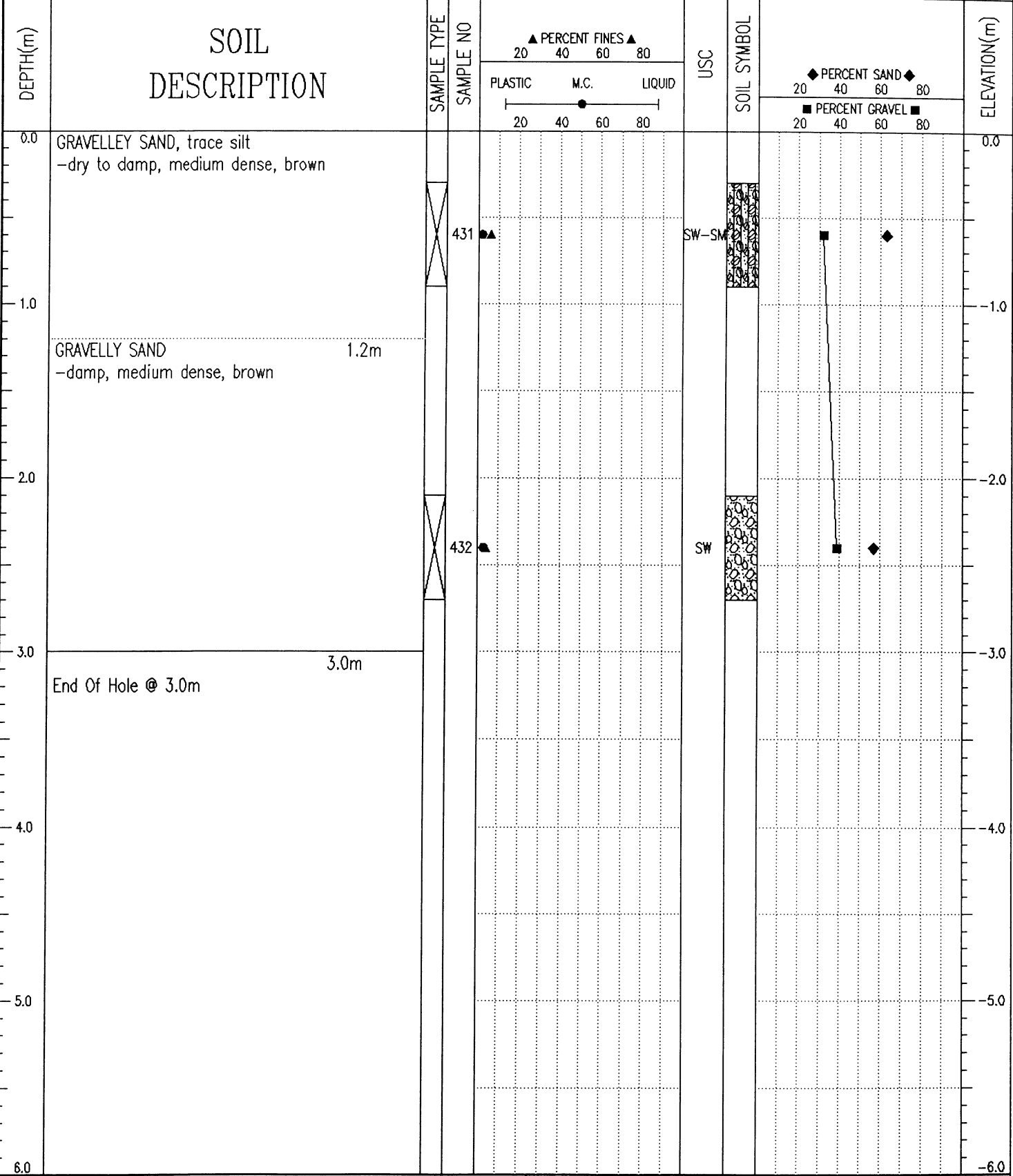
J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW	COMPLETION DEPTH: 3 m
REVIEWED BY: -	COMPLETE: 08/19/04
Fig. No: 193	Page 1 of 1

SAMPLE TYPE    RETURN    S.P.T.    AUGER    BULK    TUBE    CORE



SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

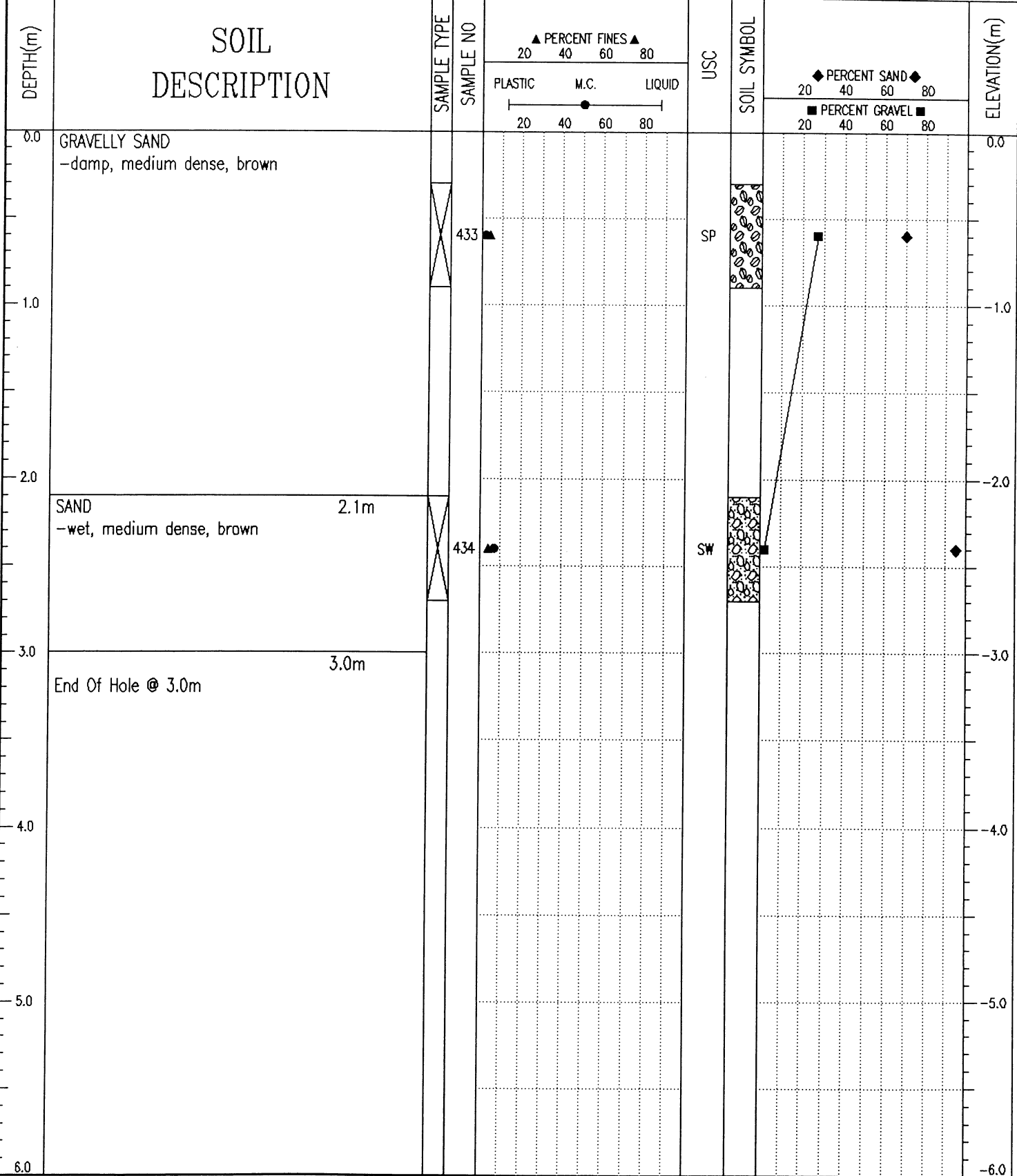


J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW  
REVIEWED BY: -  
Fig. No: 195

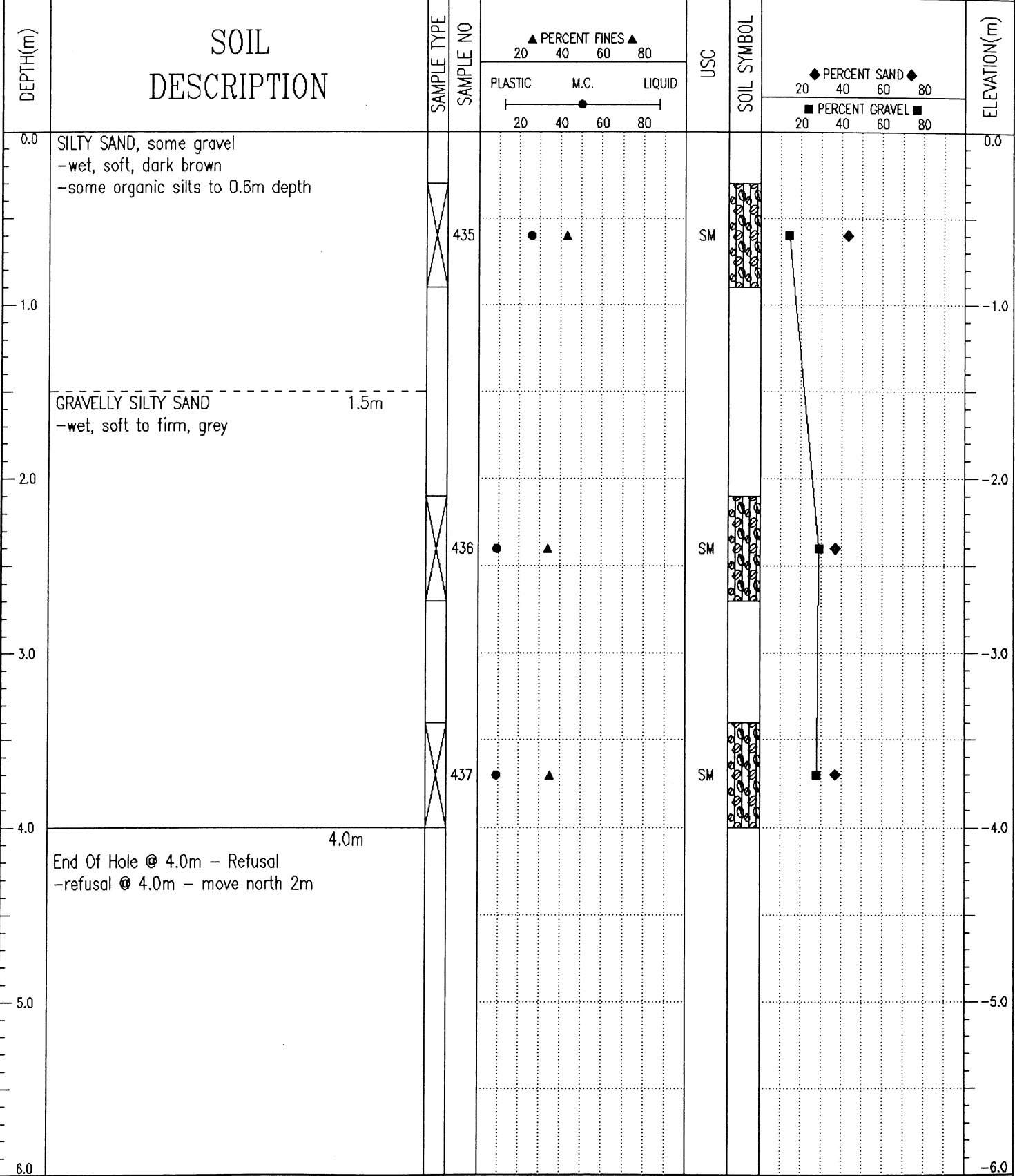
COMPLETION DEPTH: 3 m  
COMPLETE: 08/19/04

SAMPLE TYPE    RETURN    S.P.T.    AUGER    BULK    TUBE    CORE



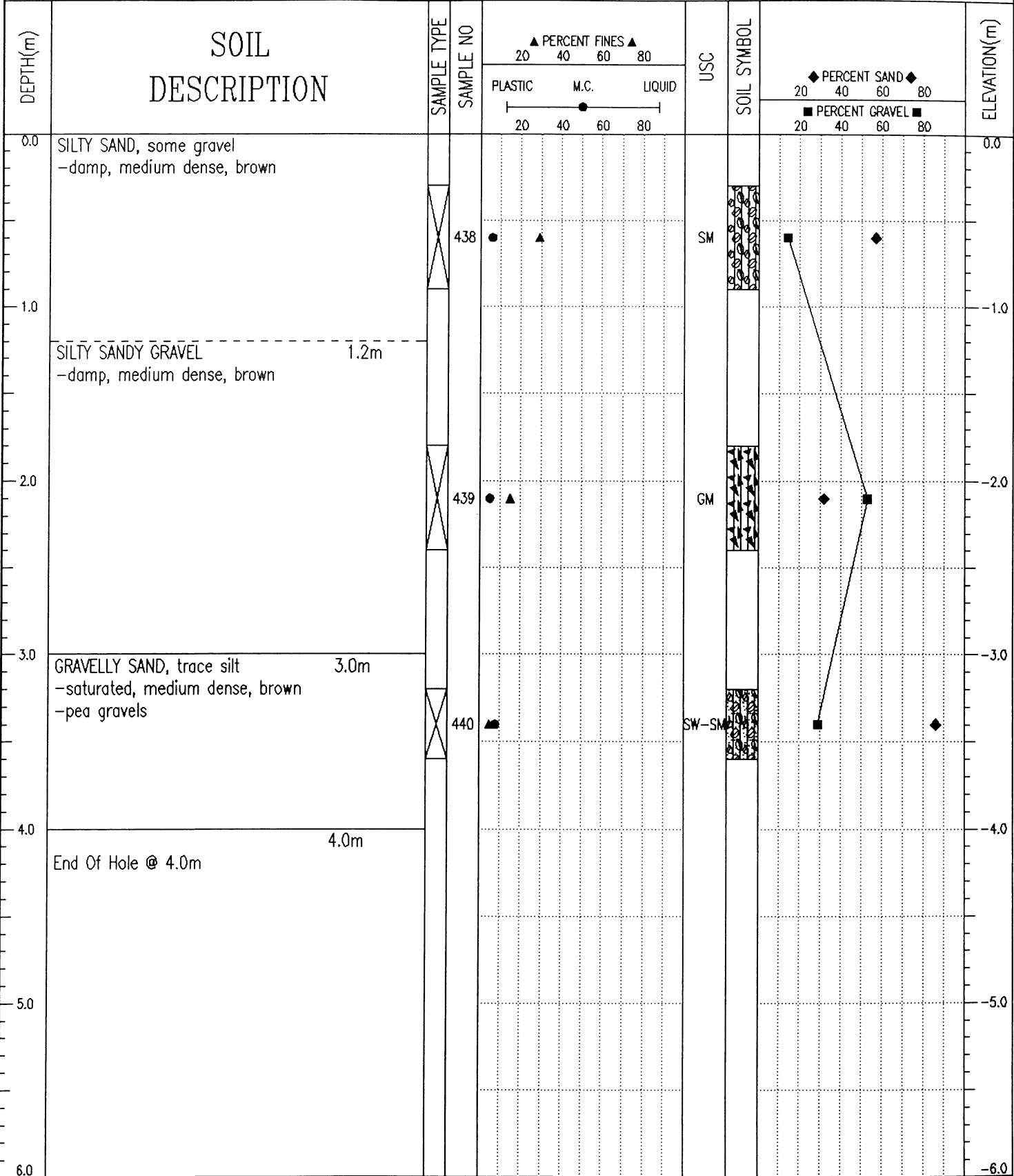
05/02/23 02:38PM (MIG\_HWT5)

SAMPLE TYPE    RETURN    S.P.T.    AUGER    BULK    TUBE    CORE



<b>J. R. Paine &amp; Associates Ltd.</b> Whitehorse, Yukon	LOGGED BY: RW REVIEWED BY: - Fig. No: 197	COMPLETION DEPTH: 4 m COMPLETE: 08/19/04
---	---	---

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



<b>J. R. Paine &amp; Associates Ltd.</b> Whitehorse, Yukon	LOGGED BY: RW REVIEWED BY: - Fig. No: 198	COMPLETION DEPTH: 4 m COMPLETE: 08/19/04
---	---	---

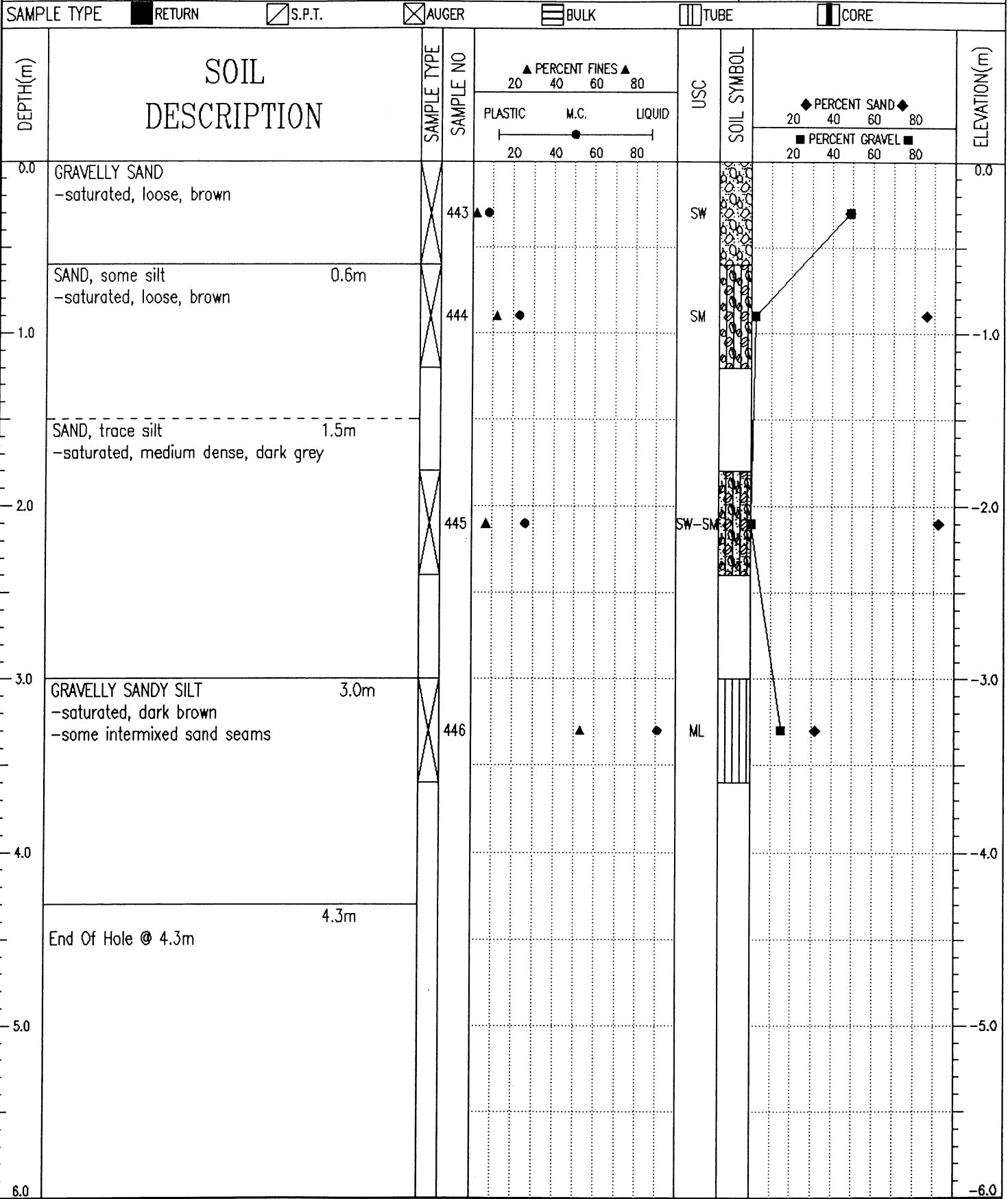
Geotechnical Services		Km 1691.7 to 1717.3 Alaska Highway #1		TEST PIT NO: 30039							
Donjek Services Ltd.		UTM ZONE: - N6765818 E637563		PROJECT NO: 8002-318							
CME75 Drill on FN60 Flextrac Nodwell				ELEVATION:							
SAMPLE TYPE		<input type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input type="checkbox"/> TUBE	<input type="checkbox"/> CORE				
DEPTH(m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		ELEVATION(m)
				PLASTIC	M.C.	LIQUID			20	40	
0.0	GRAVELLY SILTY SAND -damp, medium dense, brown		441	●	▲		SM	■	◆	0.0	
1.0											
2.0			442	◆	▲		SM	■	◆	-2.0	
2.4	End Of Hole @ 2.4m										
3.0											
4.0											
5.0											
6.0											

J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW  
REVIEWED BY: -  
Fig. No: 199

COMPLETION DEPTH: 2.4 m  
COMPLETE: 08/19/04

05/02/23 02:38PM (YIG\_HHTS)



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

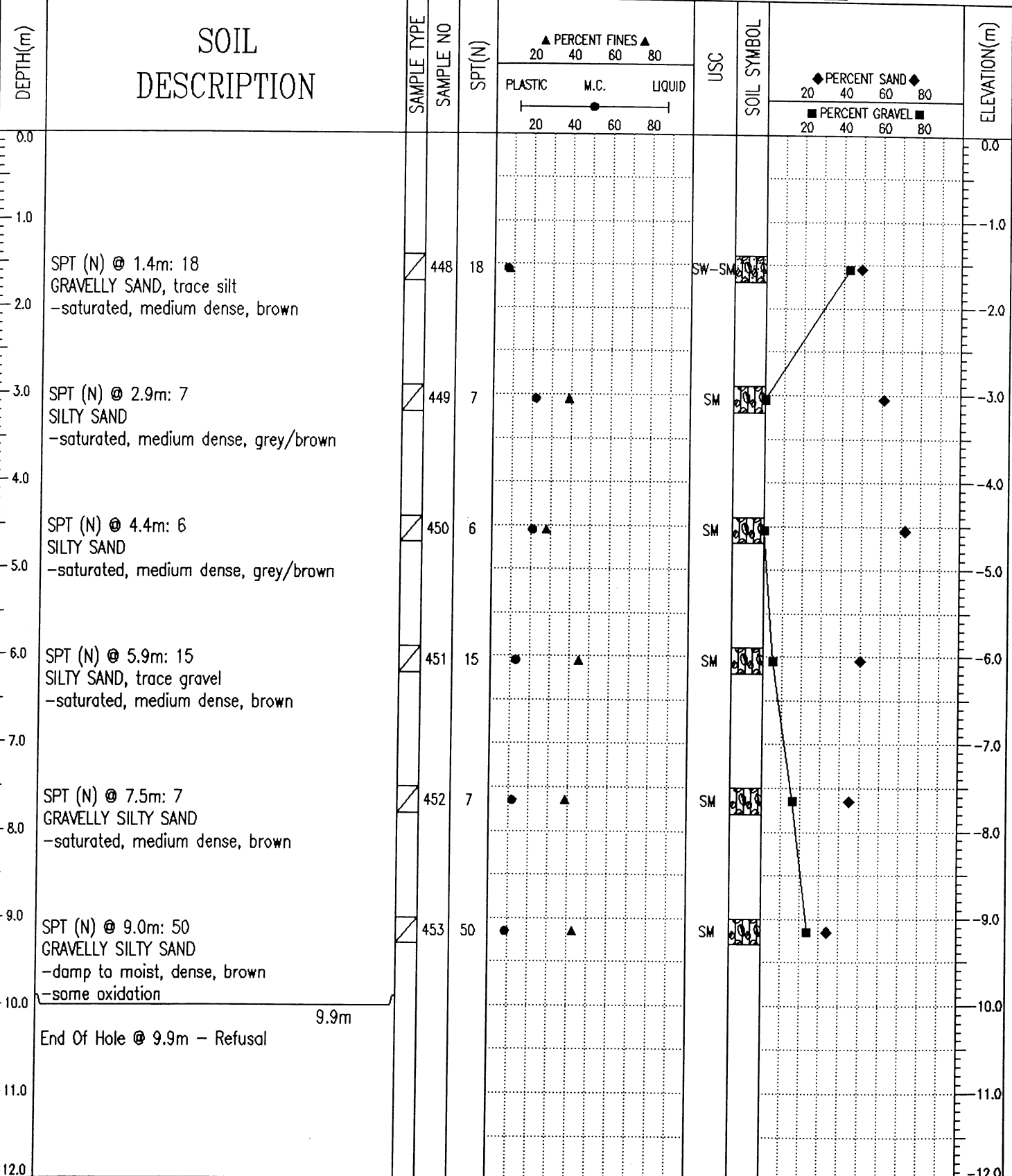
LOGGED BY: RW	COMPLETION DEPTH: 4.3 m
REVIEWED BY: -	COMPLETE: 08/19/04
Fig. No: 200	Page 1 of 1

SAMPLE TYPE    RETURN    S.P.T.    AUGER    BULK    TUBE    CORE

DEPTH(m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	SPT(N)	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			ELEVATION(m)
					PLASTIC	M.C.	LIQUID			20	40	60	
0.0 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0 11.0 12.0	<p>SPT (N) @ 1.4m: 41+ -refusal at 10"</p> <p>SANDY GRAVEL/GRAVELLY SAND -dry to damp, medium dense, brown</p> <p style="text-align: right;">2.4m</p> <p>End Of Hole @ 2.4m - Refusal -refusal @ 2.4m - move north 2m -refusal @ 1.5m - move north 2m -refusal @ 1.8m - EOH</p>		447	●				GP	▲▲▲			0.0 -1.0 -2.0 -3.0 -4.0 -5.0 -6.0 -7.0 -8.0 -9.0 -10.0 -11.0 -12.0	

05/02/23 04:55PM (YIC\_HWS)

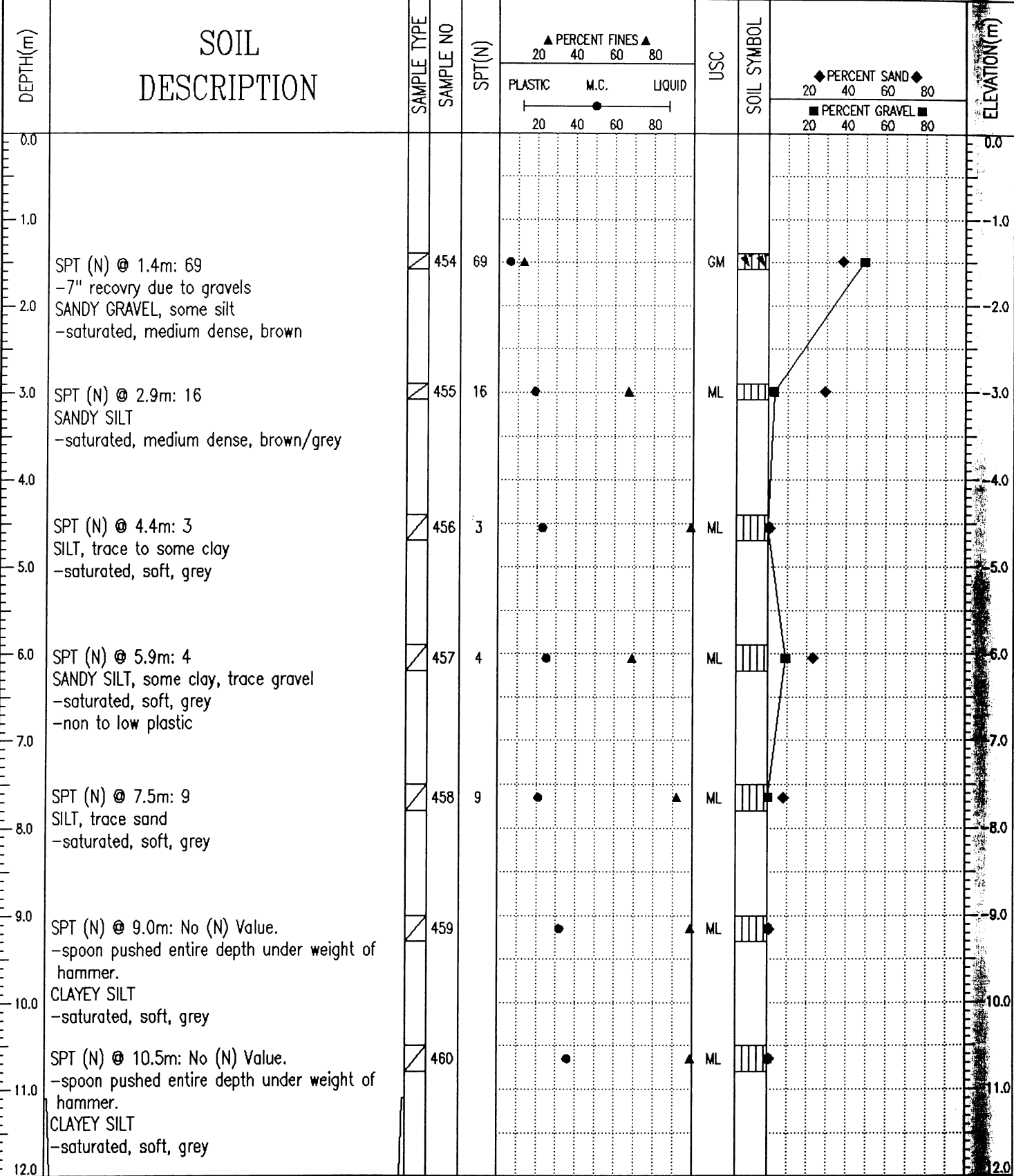
SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW	COMPLETION DEPTH: 9.9 m
REVIEWED BY: -	COMPLETE: 08/20/04
Fig. No: 202	Page 1 of 1

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

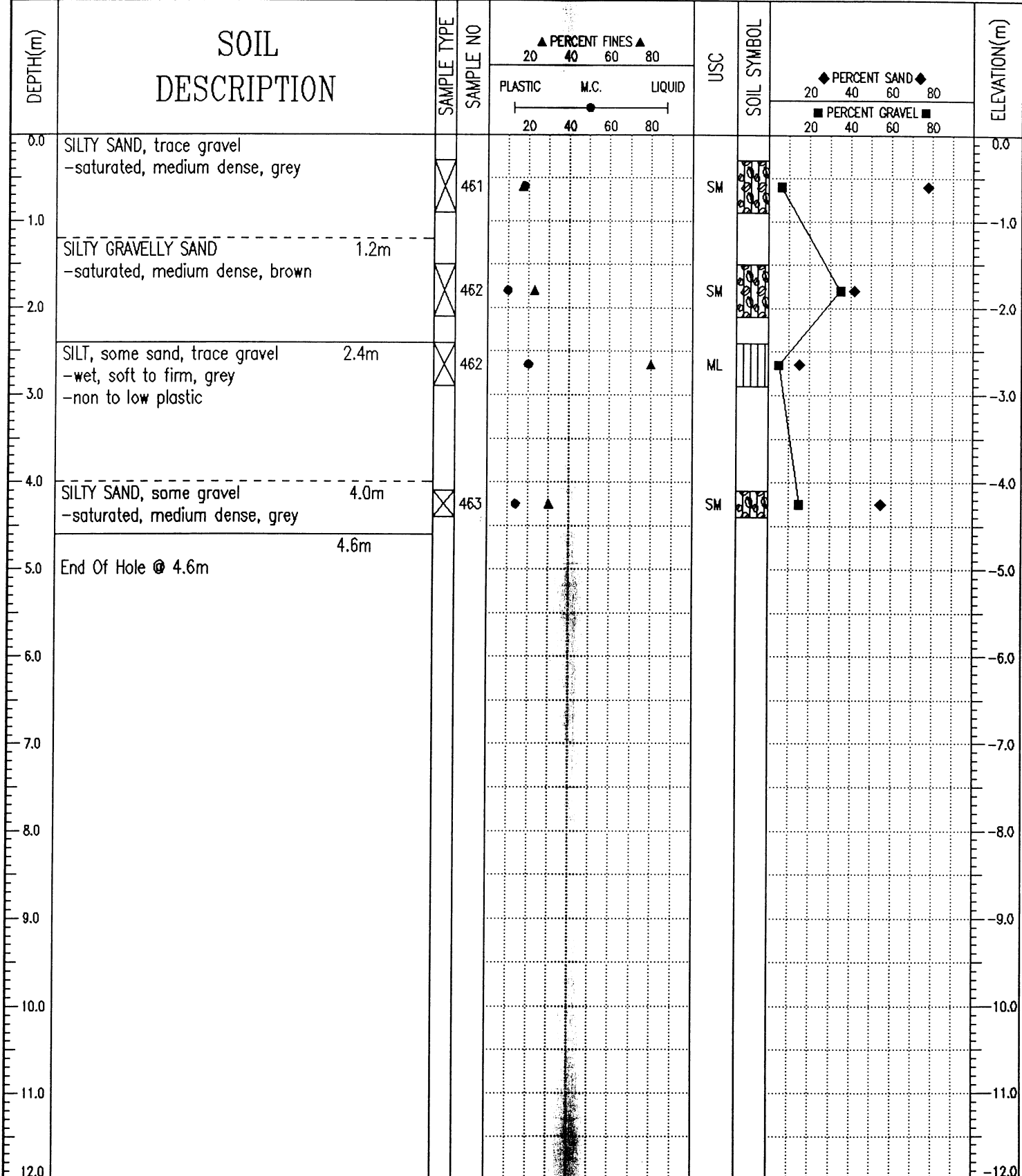


J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW  
REVIEWED BY: -  
Fig. No: 203

COMPLETION DEPTH: 11.1 m  
COMPLETE: 08/21/04

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



<b>J. R. Paine &amp; Associates Ltd.</b> Whitehorse, Yukon	LOGGED BY: RW REVISED BY: - Fig. No: 204	COMPLETION DEPTH: 4.6 m COMPLETE: 08/21/04
---	--	---

SAMPLE TYPE  RETURN

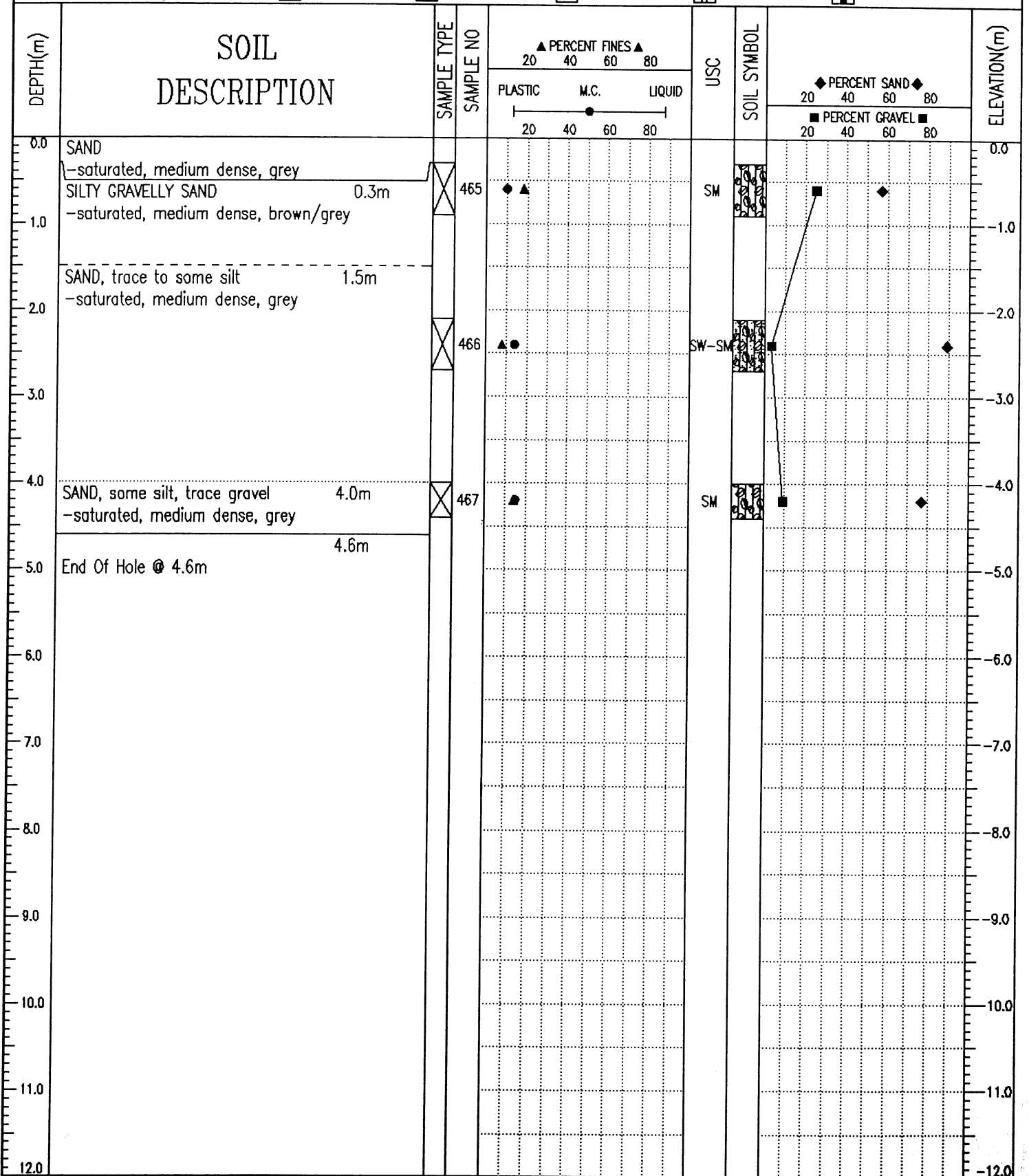
S.P.T.

AUGER

BULK

TUBE

CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW

REVIEWED BY: -

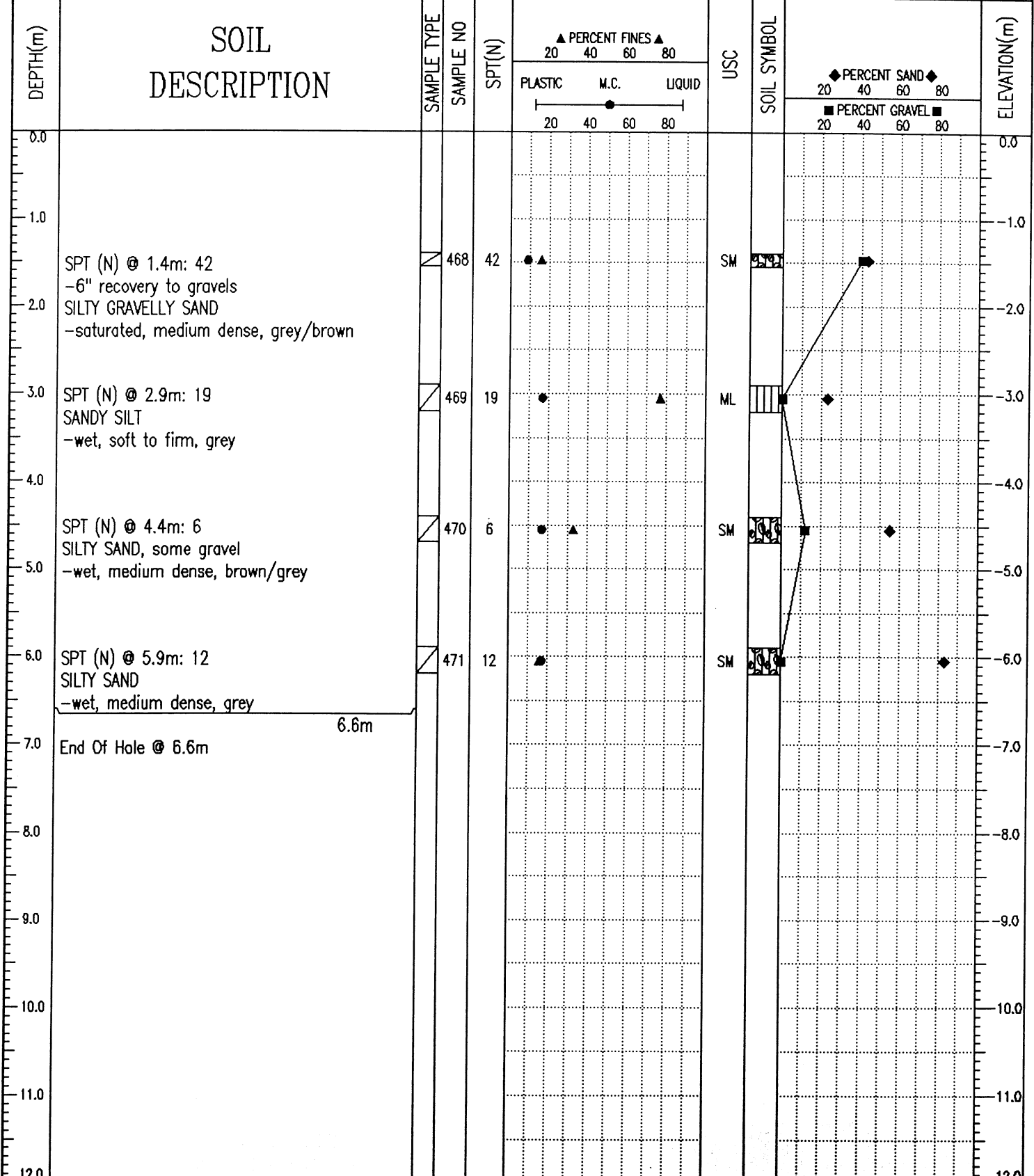
Fig. No: 205

COMPLETION DEPTH: 4.6 m

COMPLETE: 08/21/04

Page 1 of 1

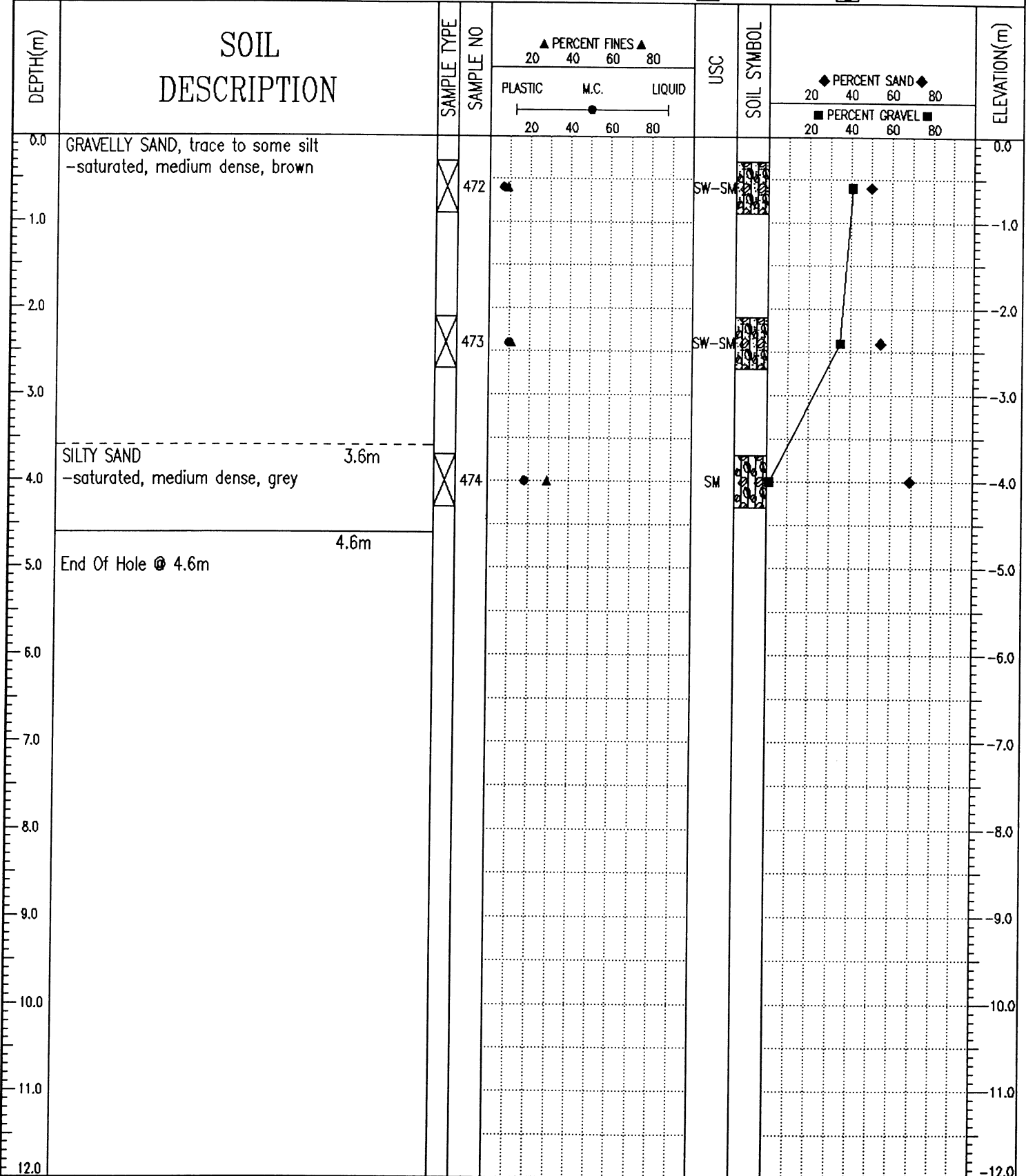
SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



85/02/23 04:23PM (716\_0015)

Geotechnical Services	Km 1691.7 to 1717.3 Alaska Highway #1	TEST PIT NO: 30047
Donjek Services Ltd.	UTM ZONE: - N6764452 E636077	PROJECT NO: 8002-318
CME75 Drill on FN60 Flextrac Nodwell		ELEVATION:

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

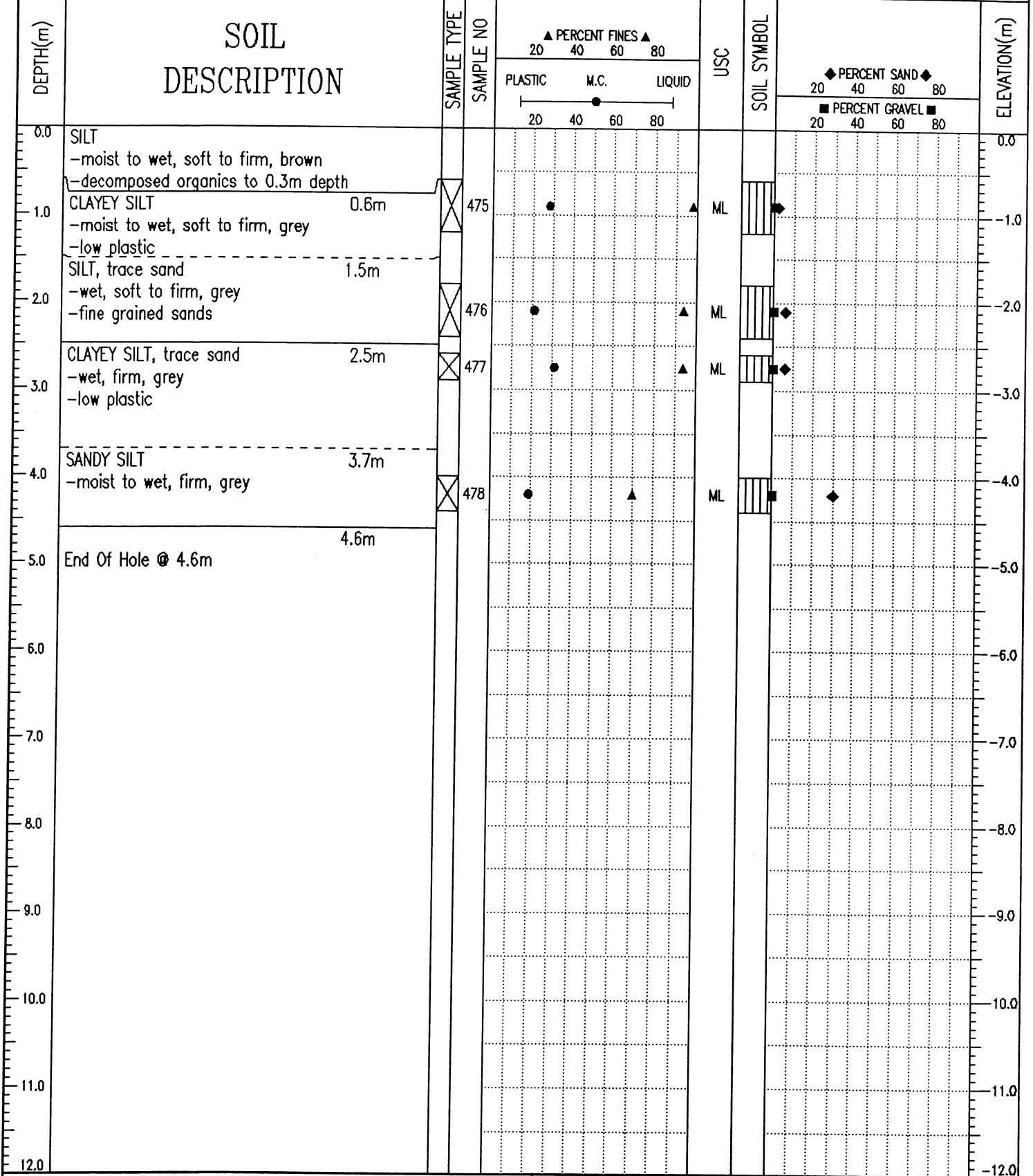


J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW  
REVIEWED BY: -  
Fig. No: 207

COMPLETION DEPTH: 4.6 m  
COMPLETE: 08/21/04

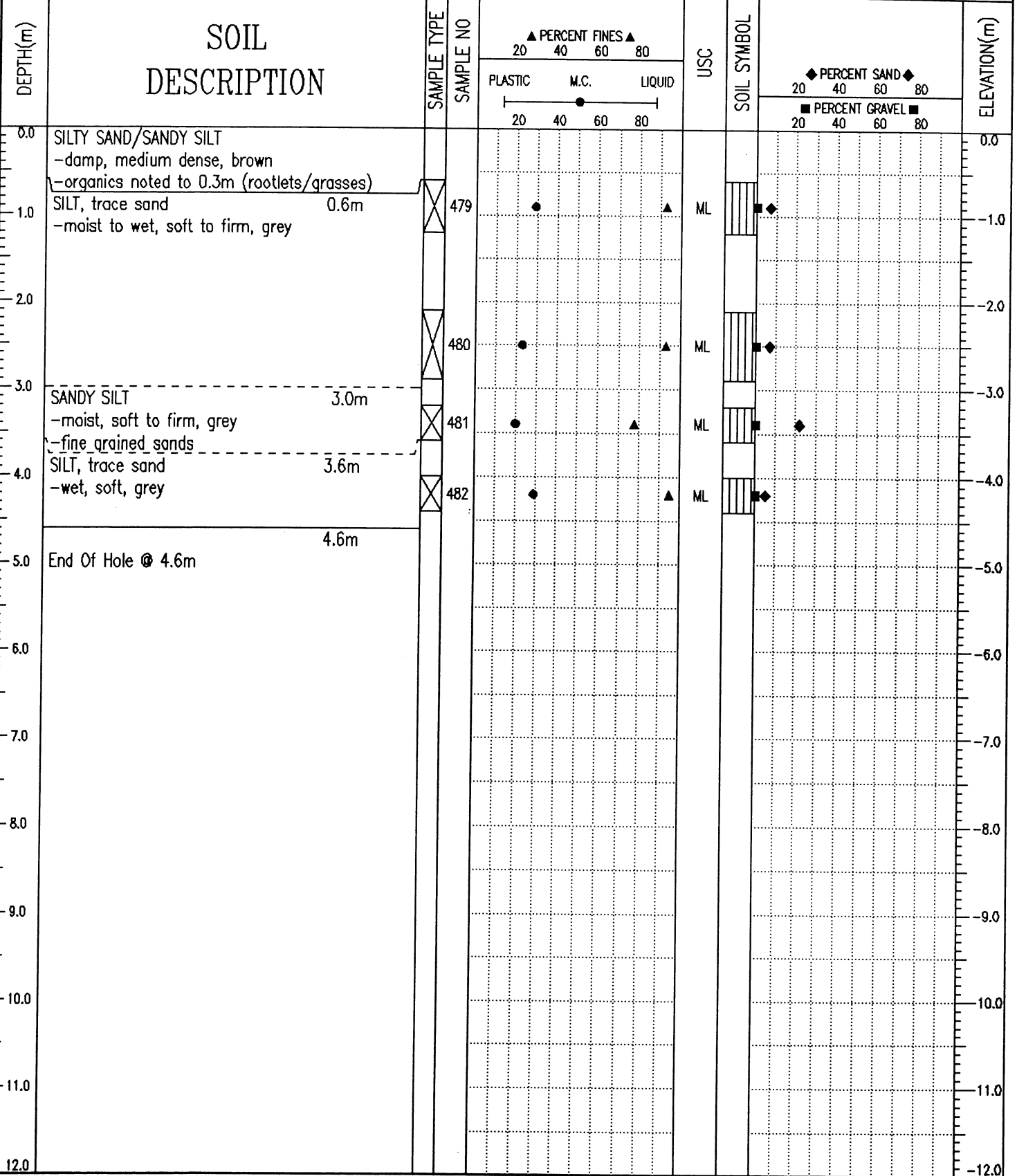
SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW	COMPLETION DEPTH: 4.6 m
REVIEWED BY: -	COMPLETE: 08/21/04
Fig. No: 208	Page 1 of 1

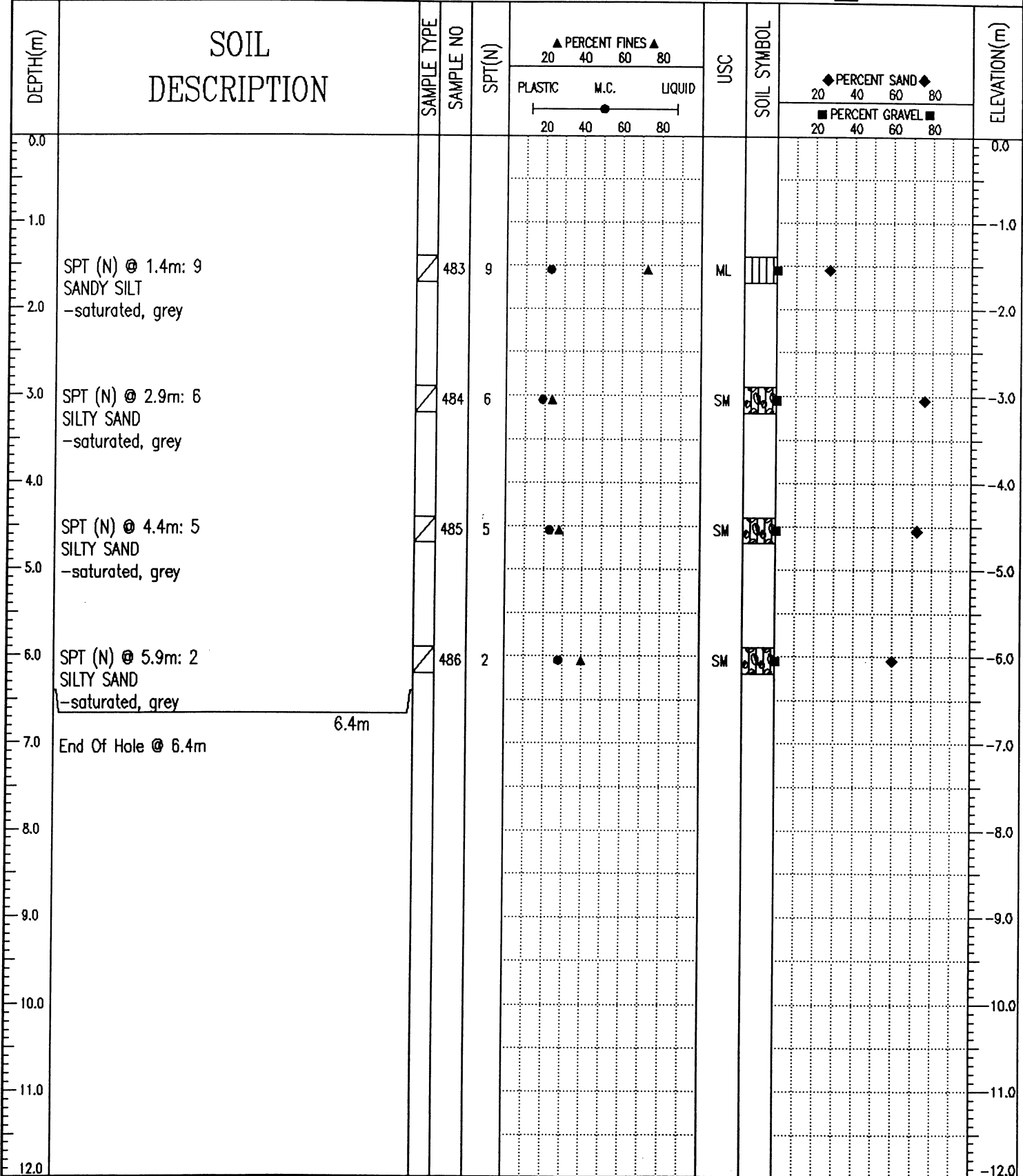
SAMPLE TYPE    RETURN    S.P.T.    AUGER    BULK    TUBE    CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW	COMPLETION DEPTH: 4.6 m
REVIEWED BY: -	COMPLETE: 08/21/04
Fig. No: 209	Page 1 of 1

SAMPLE TYPE:  RETURN     S.P.T.     AUGER     BULK     TUBE     CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW

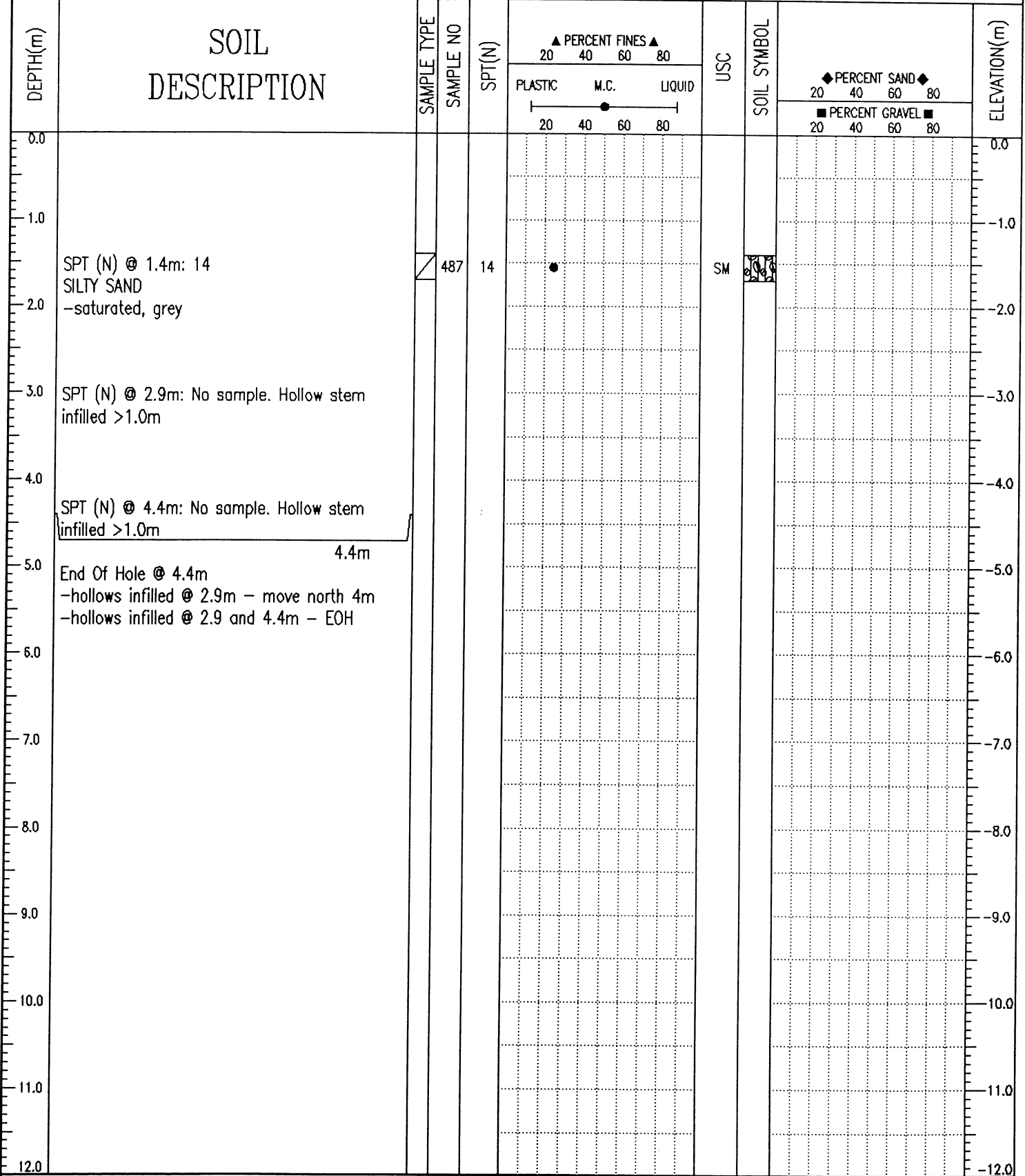
REVIEWED BY: -

Fig. No: 210

COMPLETION DEPTH: 6.4 m

COMPLETE: 08/22/04

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

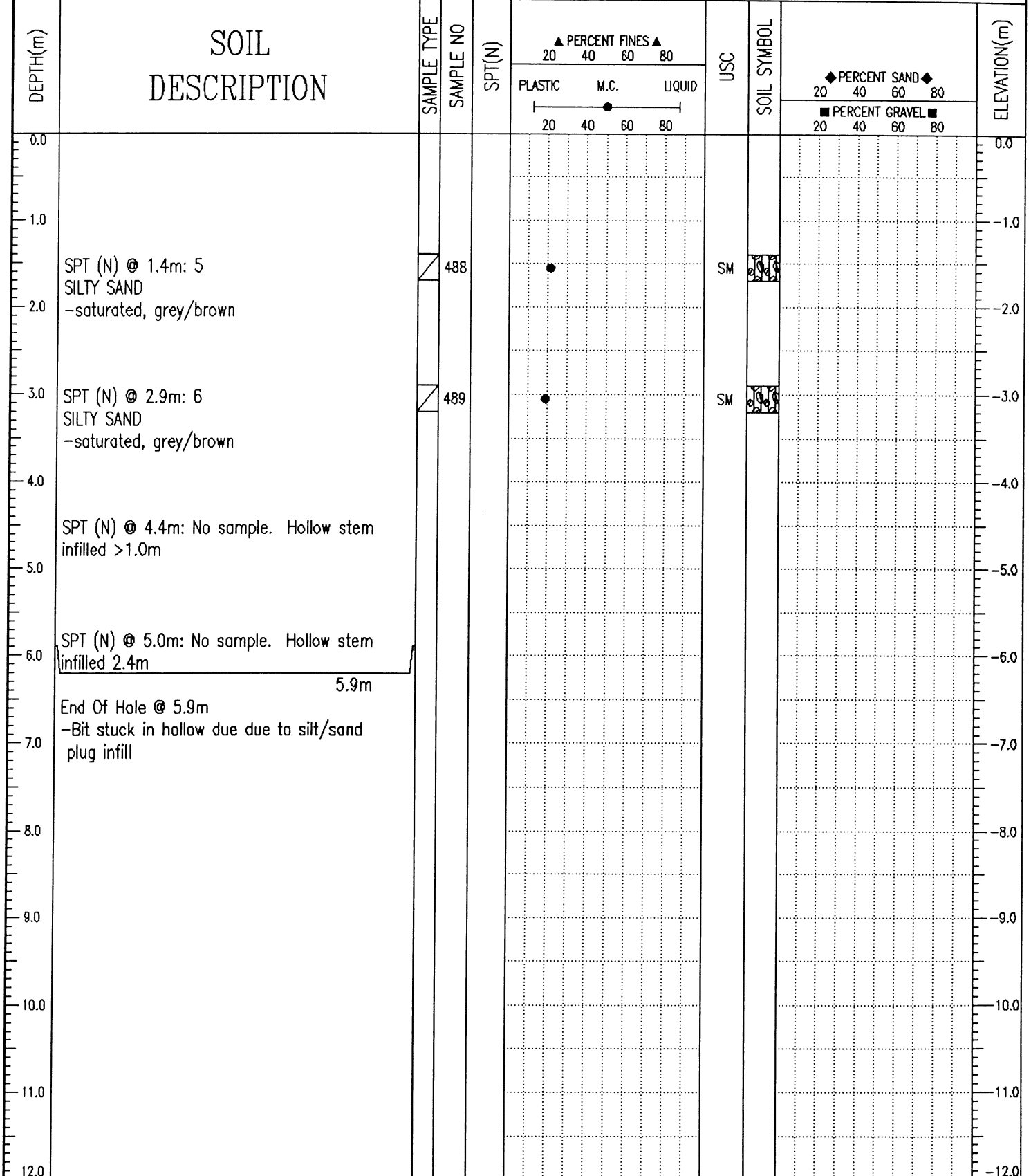
LOGGED BY: RW  
REVIEWED BY: -  
Fig. No: 211

COMPLETION DEPTH: 4.4 m  
COMPLETE: 08/25/04

08/22/04 04:58PM (116\_HHS)

Geotechnical Services	Km 1691.7 to 1717.3 Alaska Highway #1	TEST PIT NO: 30053
Donjek Services Ltd.	UTM ZONE: - N6764972 E635055	PROJECT NO: 8002-318
CME75 Drill on FN60 Flextrac Nadwell		ELEVATION:

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW  
REVIEWED BY: -  
Fig. No: 212

COMPLETION DEPTH: 5.9 m  
COMPLETE: 08/25/04

Geotechnical Services Km 1691.7 to 1717.3 Alaska Highway #1 TEST PIT NO: 30054

Donjek Services Ltd. UTM ZONE: - N6765115 E634942 PROJECT NO: 8002-318

CME75 Drill on FN60 Flextrac Nodwell ELEVATION:

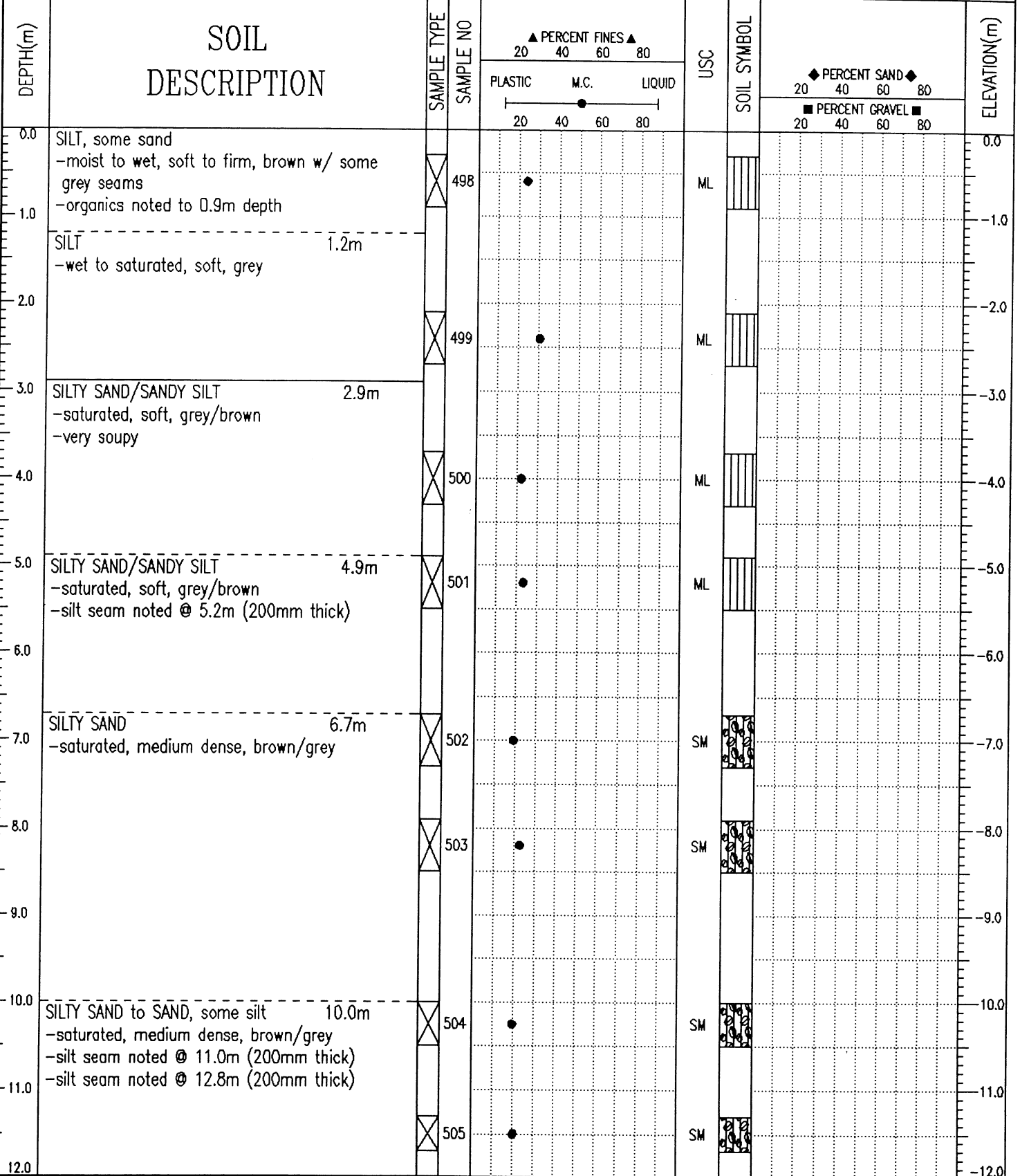
SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

DEPTH(m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	SPT(N)	PERCENT FINES			USC	SOIL SYMBOL	PERCENT SAND			PERCENT GRAVEL			ELEVATION(m)
					PLASTIC	M.C.	LIQUID			20	40	60	80	20	40	
0.0															0.0	
1.4	SPT (N) @ 1.4m: 8 SAND, some silt -saturated, brown/grey		490				SM								-1.4	
2.9	SPT (N) @ 2.9m: No sample. Hollow stem infilled 0.8m														-2.9	
2.9	End Of Hole @ 2.9m -move north 3m (redrill with solid stem)														-2.9	
12.0															-12.0	

J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW COMPLETION DEPTH: 2.9 m  
 REVIEWED BY: - COMPLETE: 08/25/04  
 Fig. No: 213 Page 1 of 1

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

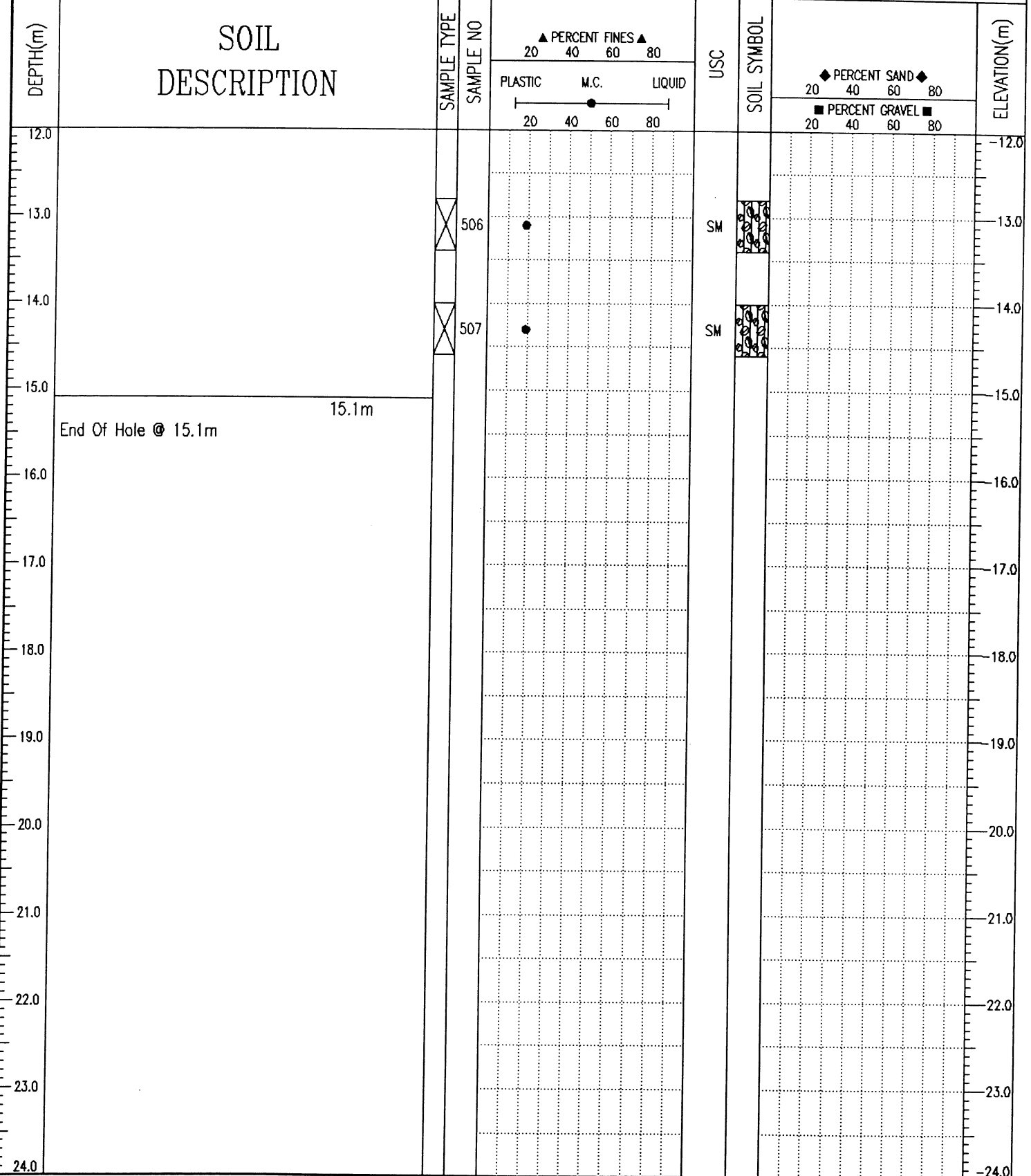


J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW	COMPLETION DEPTH: 15.1 m
REVIEWED BY: -	COMPLETE: 08/26/04
Fig. No: 215	Page 1 of 2

Geotechnical Services	Km 1691.7 to 1717.3 Alaska Highway #1	TEST PIT NO: 30055
Donjek Services Ltd.	UTM ZONE: - N6765279 E634837	PROJECT NO: 8002-318
CME75 Drill on FN60 Flextrac Nodwell		ELEVATION:

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

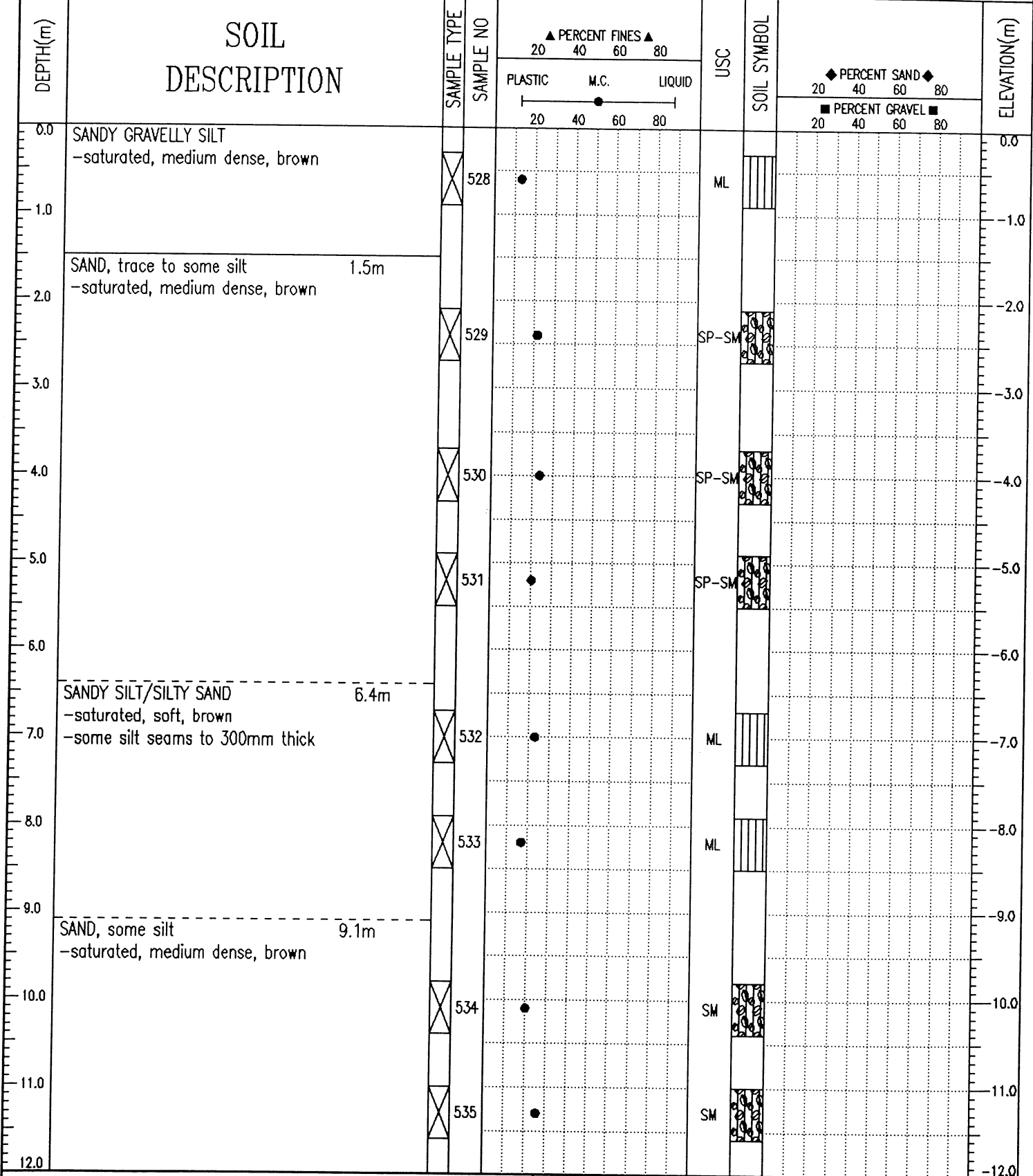


J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW	COMPLETION DEPTH: 15.1 m
REVIEWED BY: -	COMPLETE: 08/26/04
Fig. No: 215	Page 2 of 2

Geotechnical Services	Km 1691.7 to 1717.3 Alaska Highway #1	TEST PIT NO: 30056
Donjek Services Ltd.	UTM ZONE: - N6765296 E634757	PROJECT NO: 8002-318
CME75 Drill on FN60 Flextrac Nodwell		ELEVATION:

SAMPLE TYPE    RETURN    S.P.T.    AUGER    BULK    TUBE    CORE

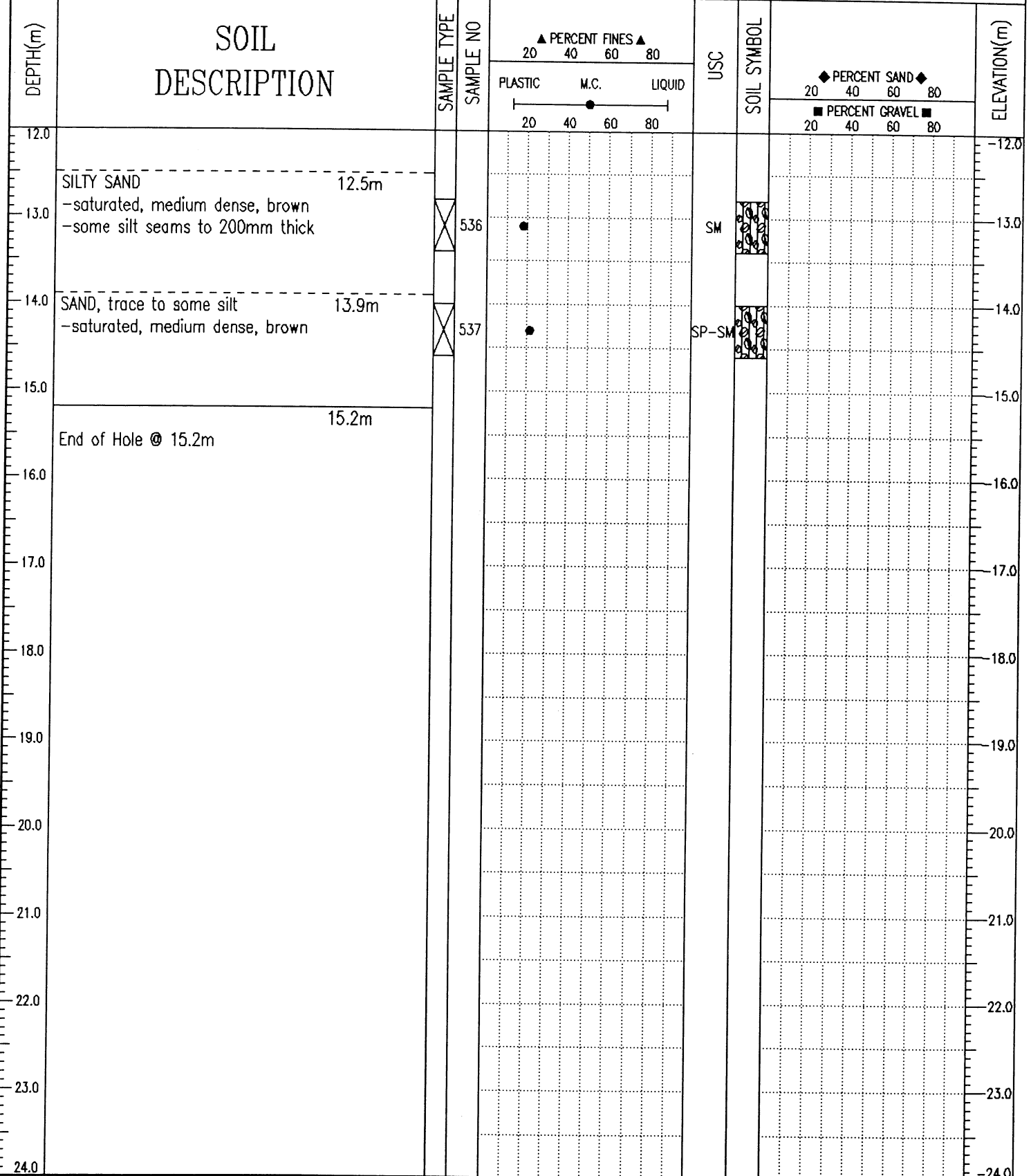


J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW	COMPLETION DEPTH: 15.2 m
REVIEWED BY: -	COMPLETE: 08/27/04
Fig. No: 216	Page 1 of 2

Geotechnical Services	Km 1691.7 to 1717.3 Alaska Highway #1	TEST PIT NO: 30056
Donjek Services Ltd.	UTM ZONE: - N6765296 E634757	PROJECT NO: 8002-318
CME75 Drill on FN60 Flextrac Nodwell		ELEVATION:

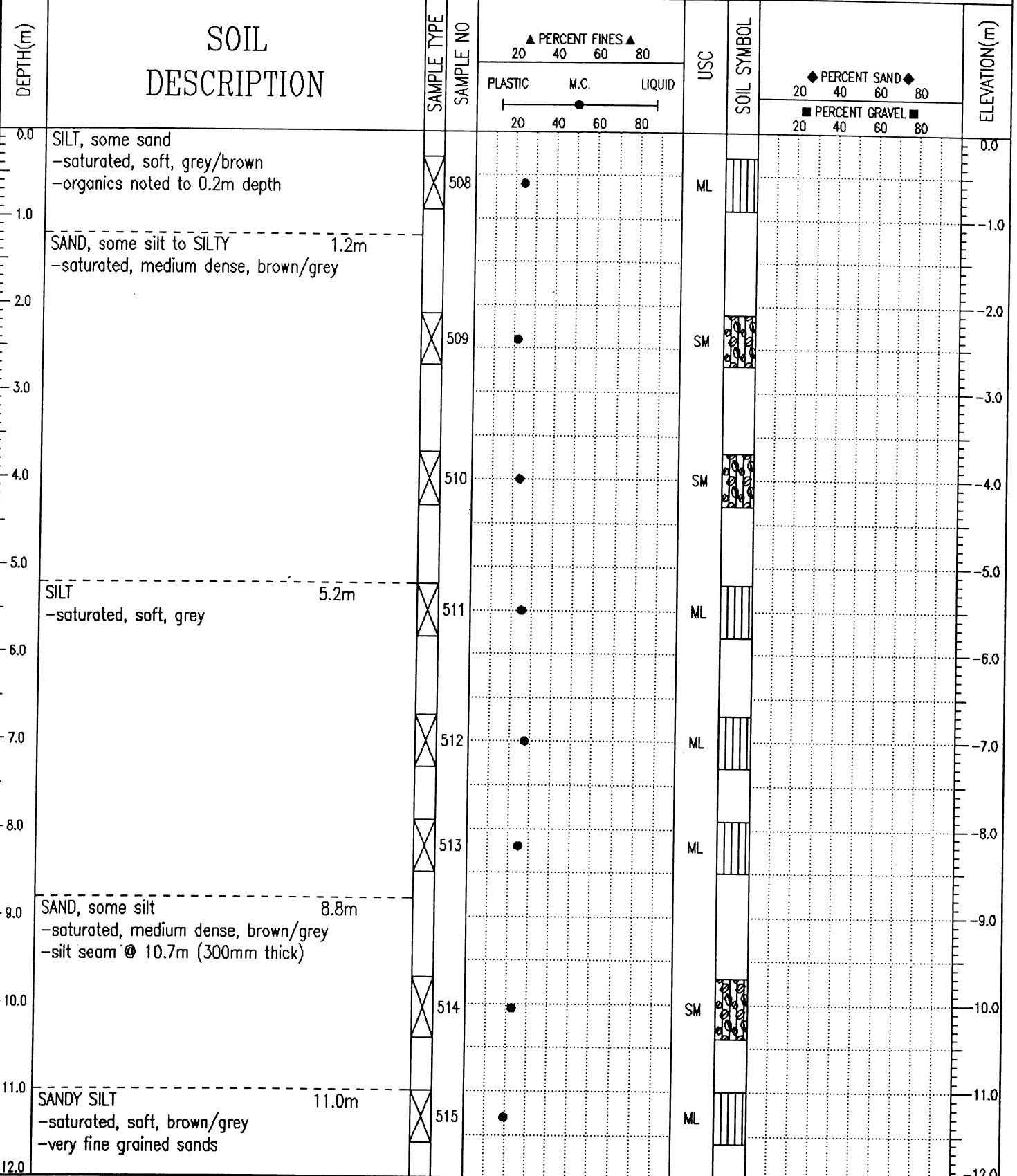
SAMPLE TYPE    RETURN    S.P.T.    AUGER    BULK    TUBE    CORE



**J. R. Paine & Associates Ltd.**  
Whitehorse, Yukon

LOGGED BY: RW	COMPLETION DEPTH: 15.2 m
REVIEWED BY: -	COMPLETE: 08/27/04
Fig. No: 216	Page 2 of 2

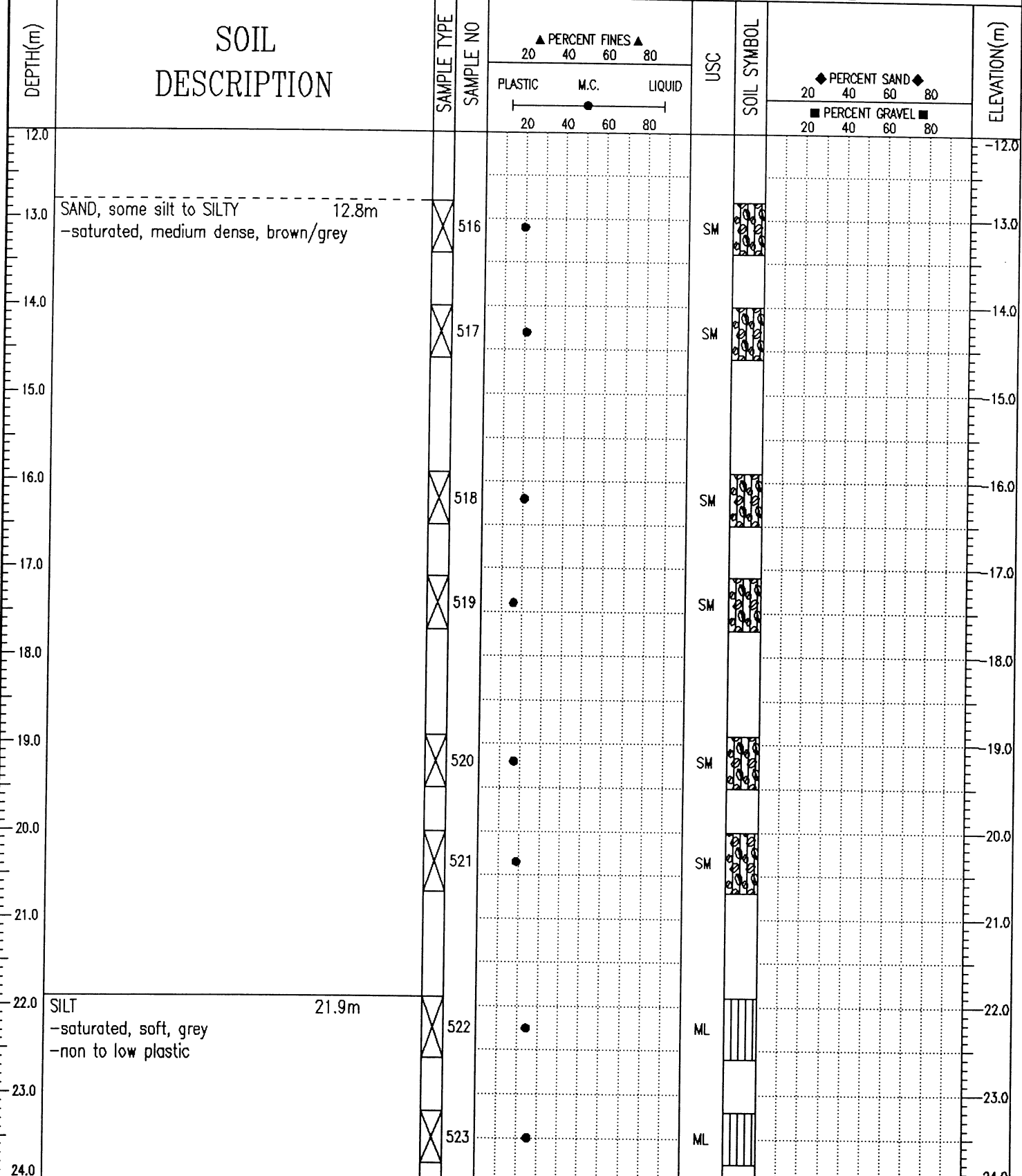
SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW	COMPLETION DEPTH: 30.3 m
REVIEWED BY: -	COMPLETE: 08/26/04
Fig. No: 217	Page 1 of 3

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

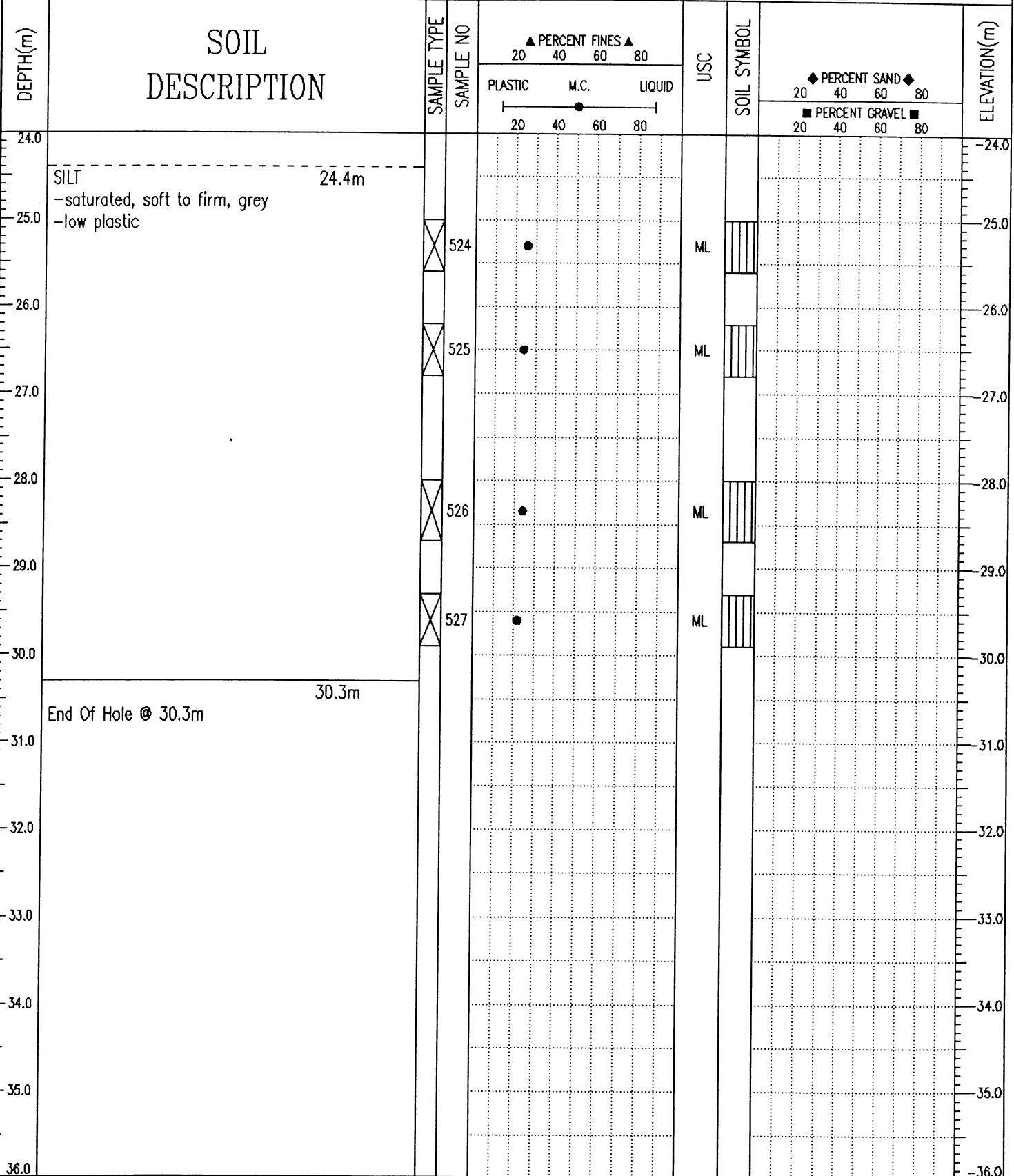


J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW	COMPLETION DEPTH: 30.3 m
REVIEWED BY:	COMPLETE: 08/26/04
Fig. No: 217	Page 2 of 3

Geotechnical Services	Km 1691.7 to 1717.3 Alaska Highway #1	TEST PIT NO: 30057
Donjek Services Ltd.	UTM ZONE: - N6765406 E634728	PROJECT NO: 8002-318
CME75 Drill on FN60 Flextrac Nodwell		ELEVATION:

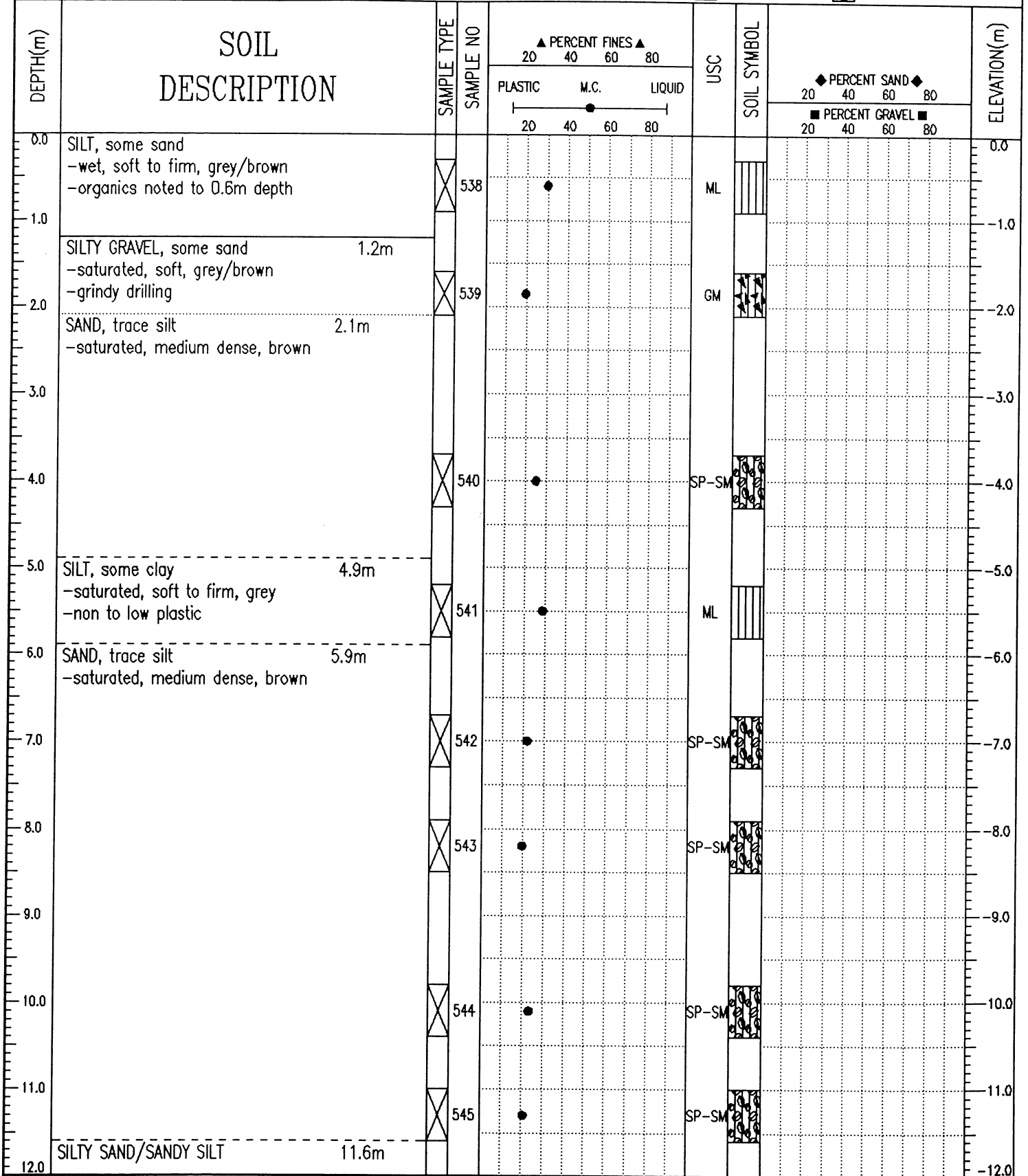
SAMPLE TYPE     RETURN     S.P.T.     AUGER     BULK     TUBE     CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

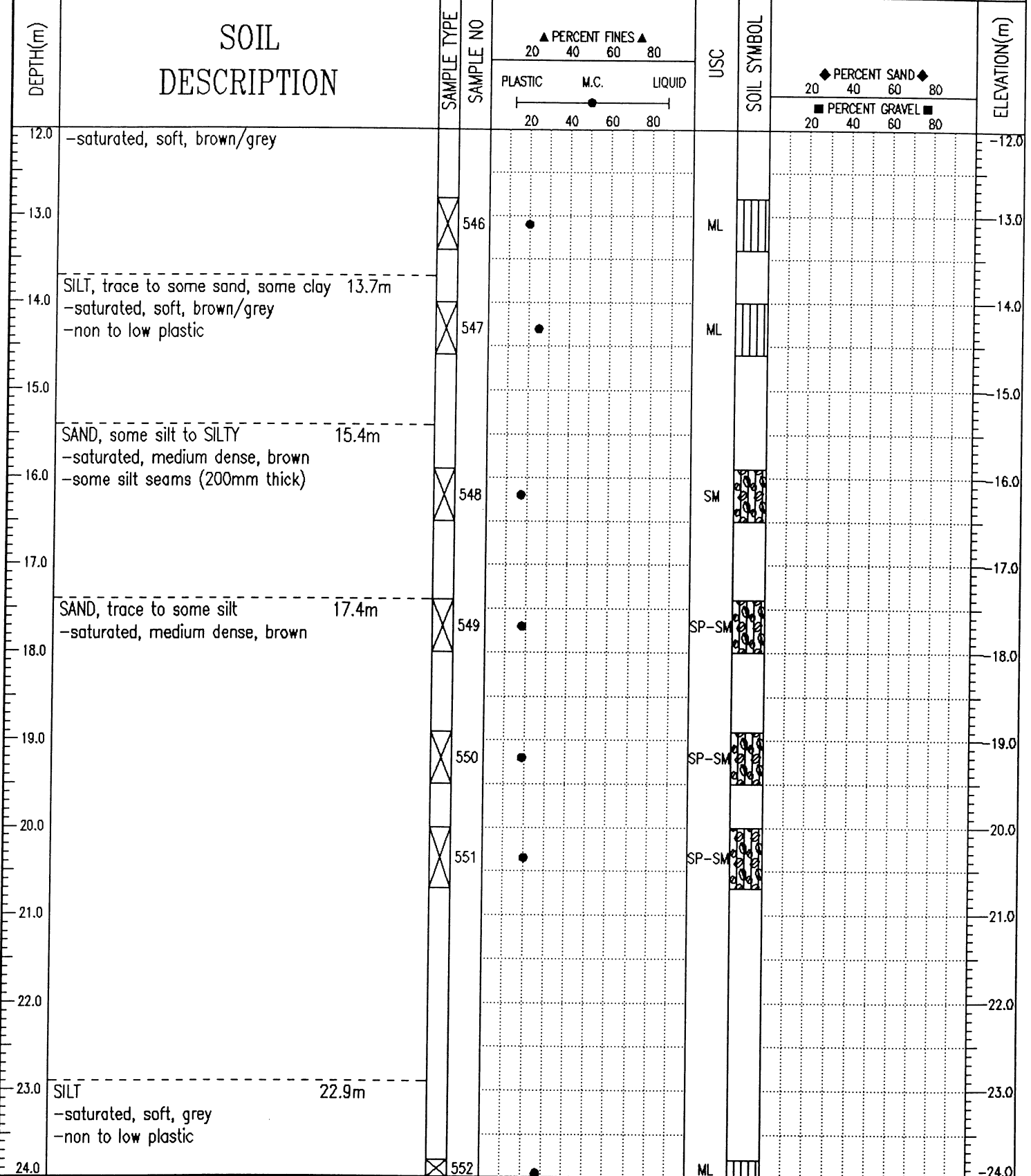
LOGGED BY: RW	COMPLETION DEPTH: 30.3 m
REVIEWED BY: -	COMPLETE: 08/26/04
Fig. No: 217	Page 3 of 3

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



05/02/23 05:30 PM (116\_JRWS)

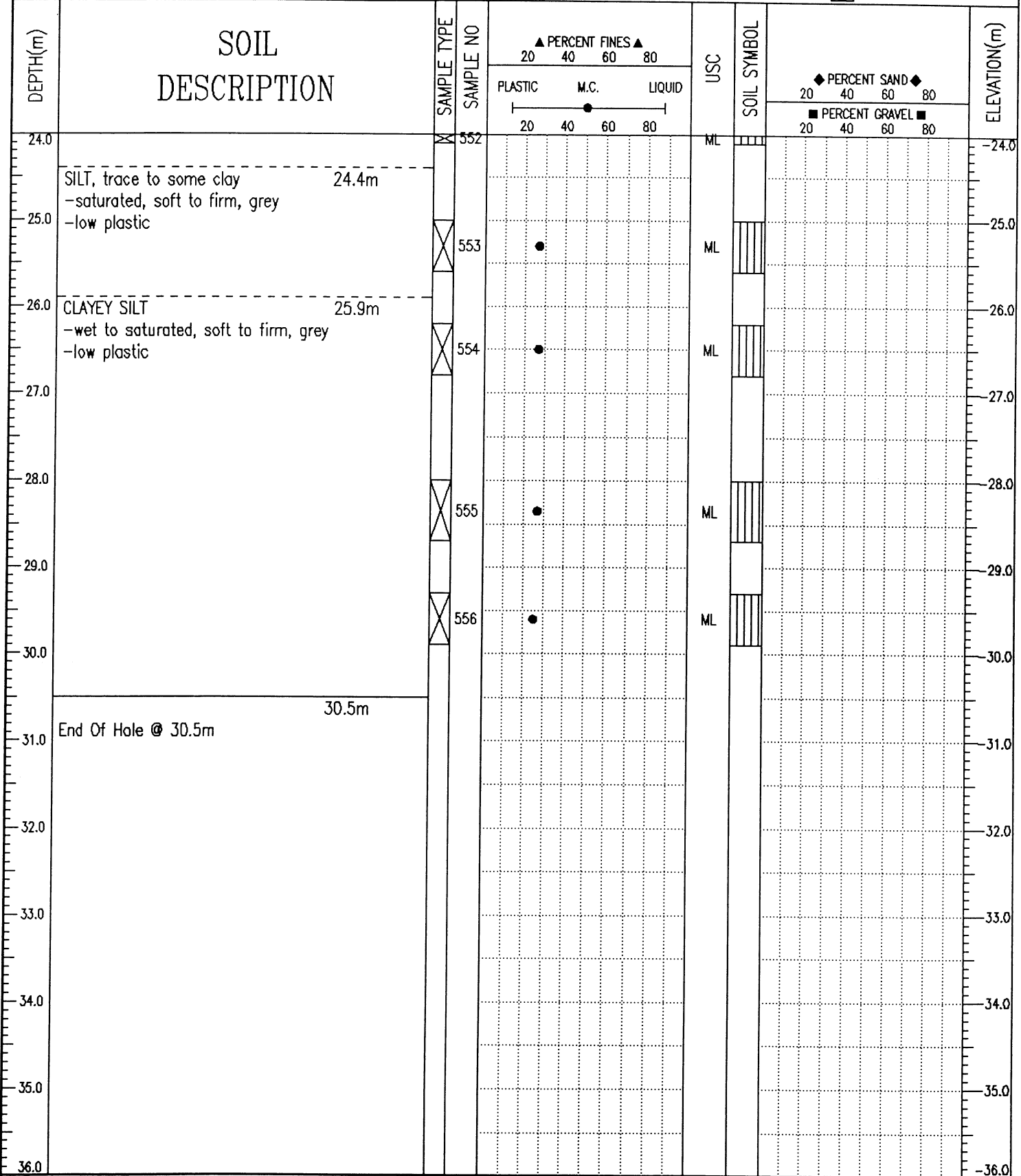
SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW	COMPLETION DEPTH: 30.5 m
REVIEWED BY: -	COMPLETE: 08/28/04
Fig. No: 218	Page 2 of 3

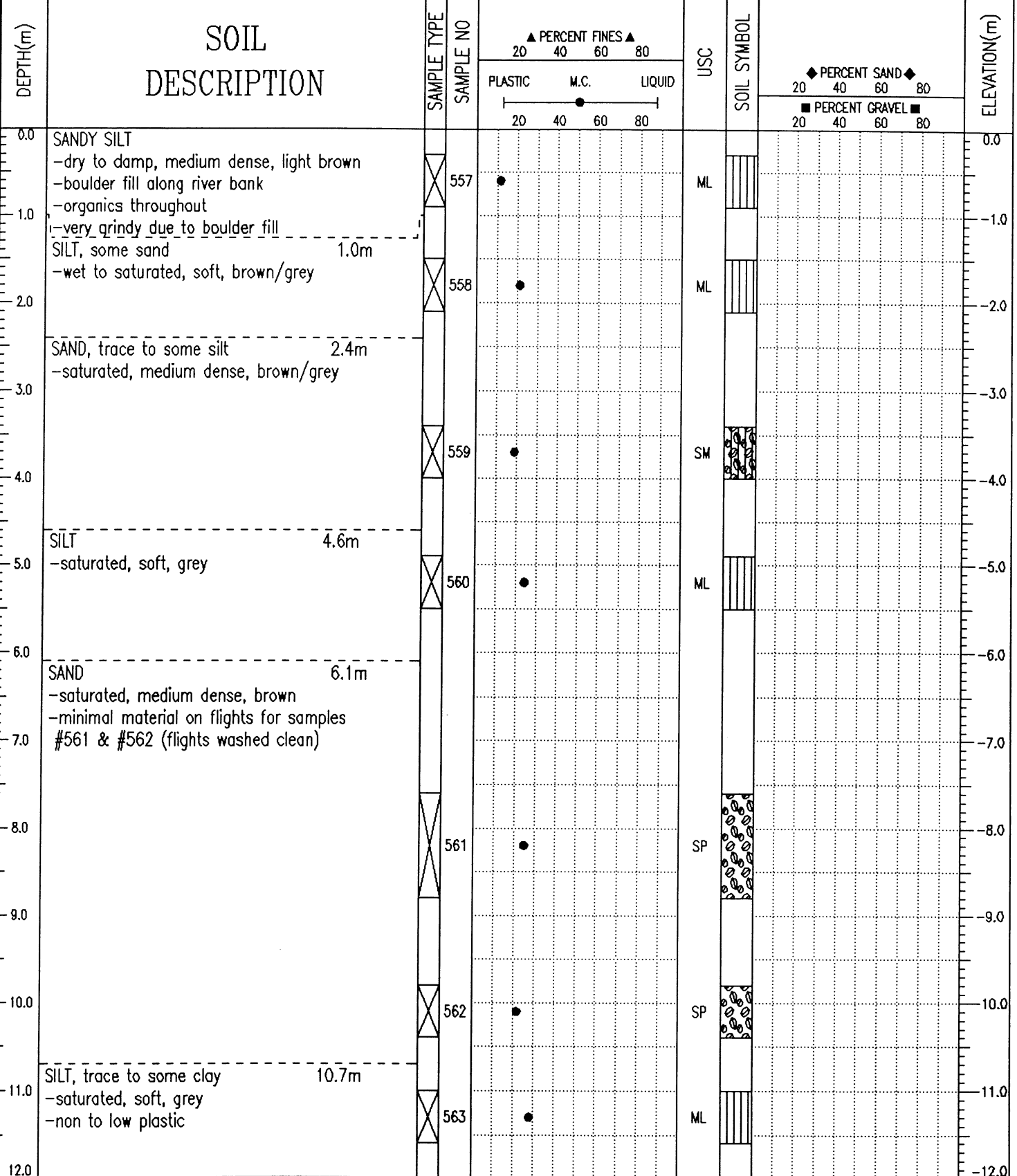
SAMPLE TYPE    RETURN    S.P.T.    AUGER    BULK    TUBE    CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW	COMPLETION DEPTH: 30.5 m
REVIEWED BY: -	COMPLETE: 08/28/04
Fig. No: 218	Page 3 of 3

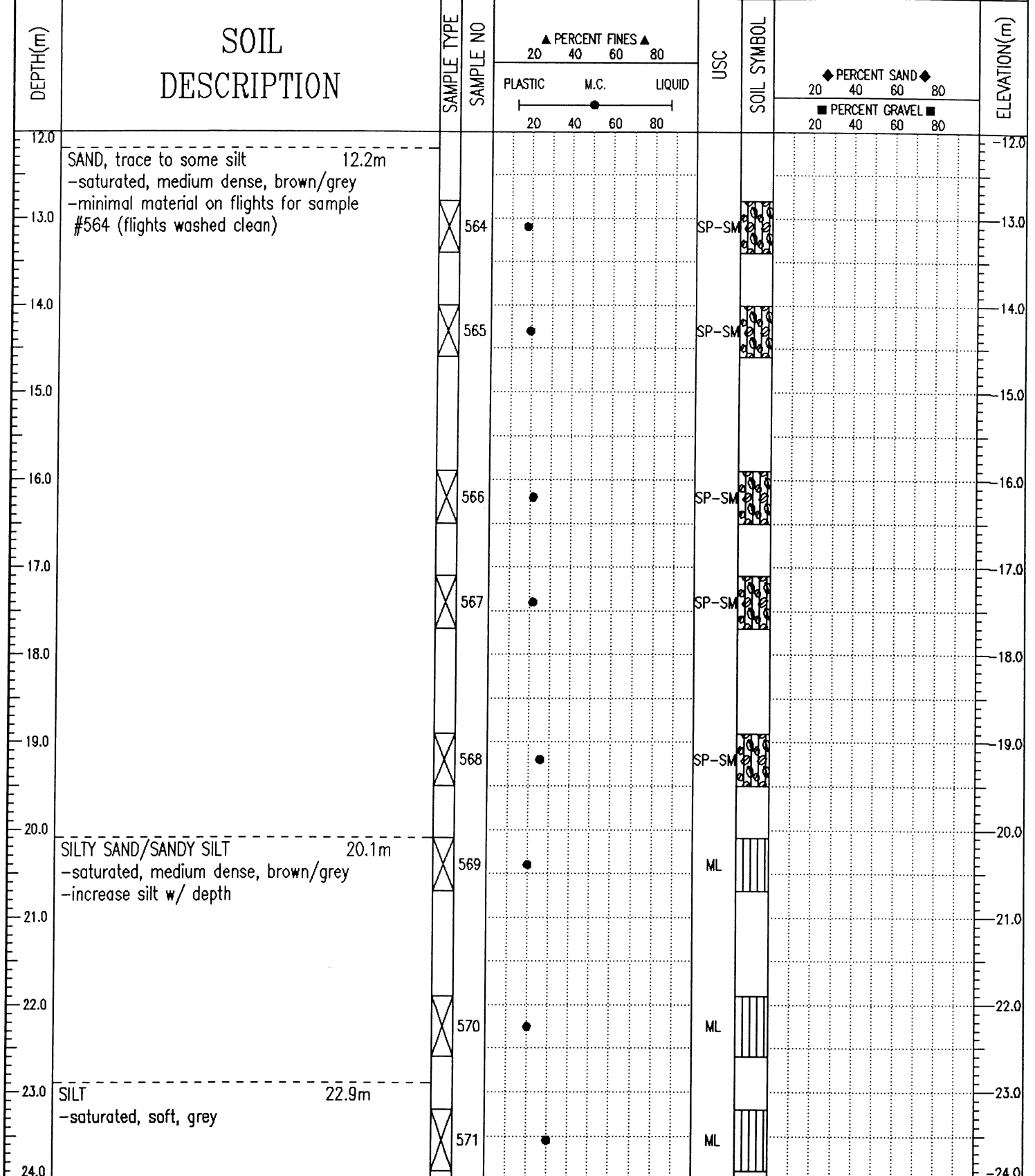
SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW	COMPLETION DEPTH: 30.3 m
REVIEWED BY: -	COMPLETE: 08/28/04
Fig. No: 219	Page 1 of 3

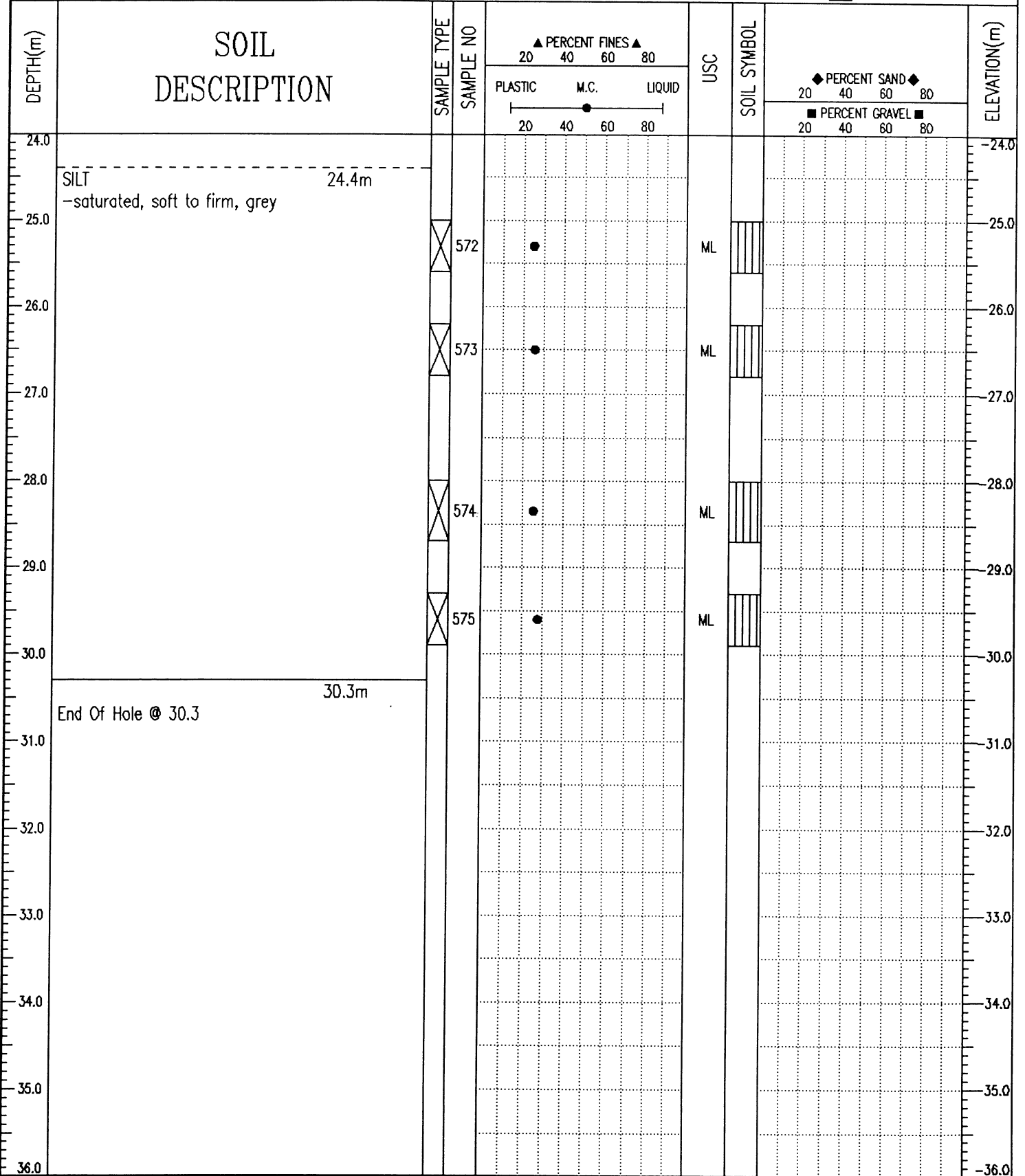
SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

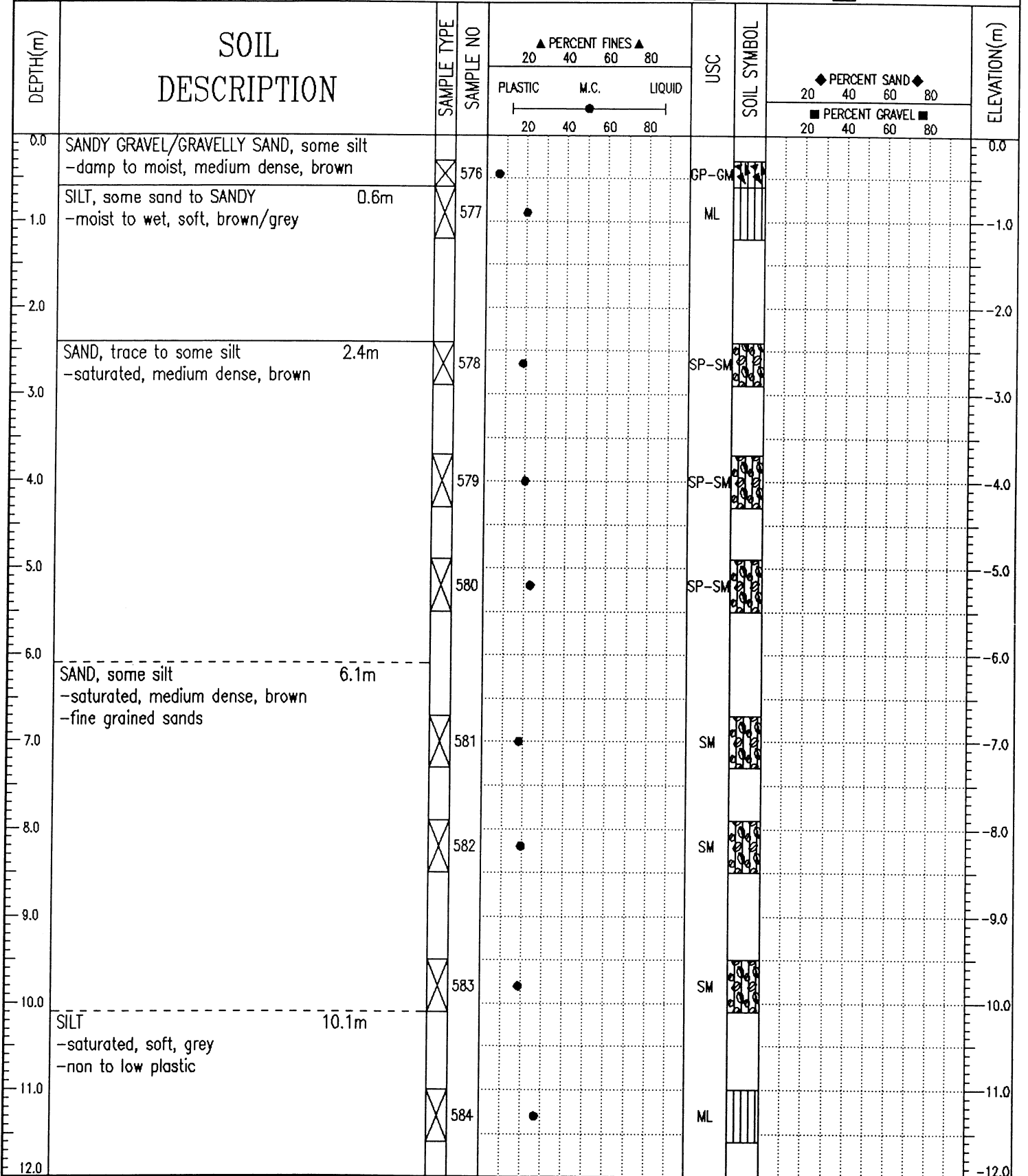
LOGGED BY: RW	COMPLETION DEPTH: 30.3 m
REVIEWED BY:	COMPLETE: 08/28/04
Fig. No: 219	Page 2 of 3

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



05/02/23 08:30PM (116\_1115)

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

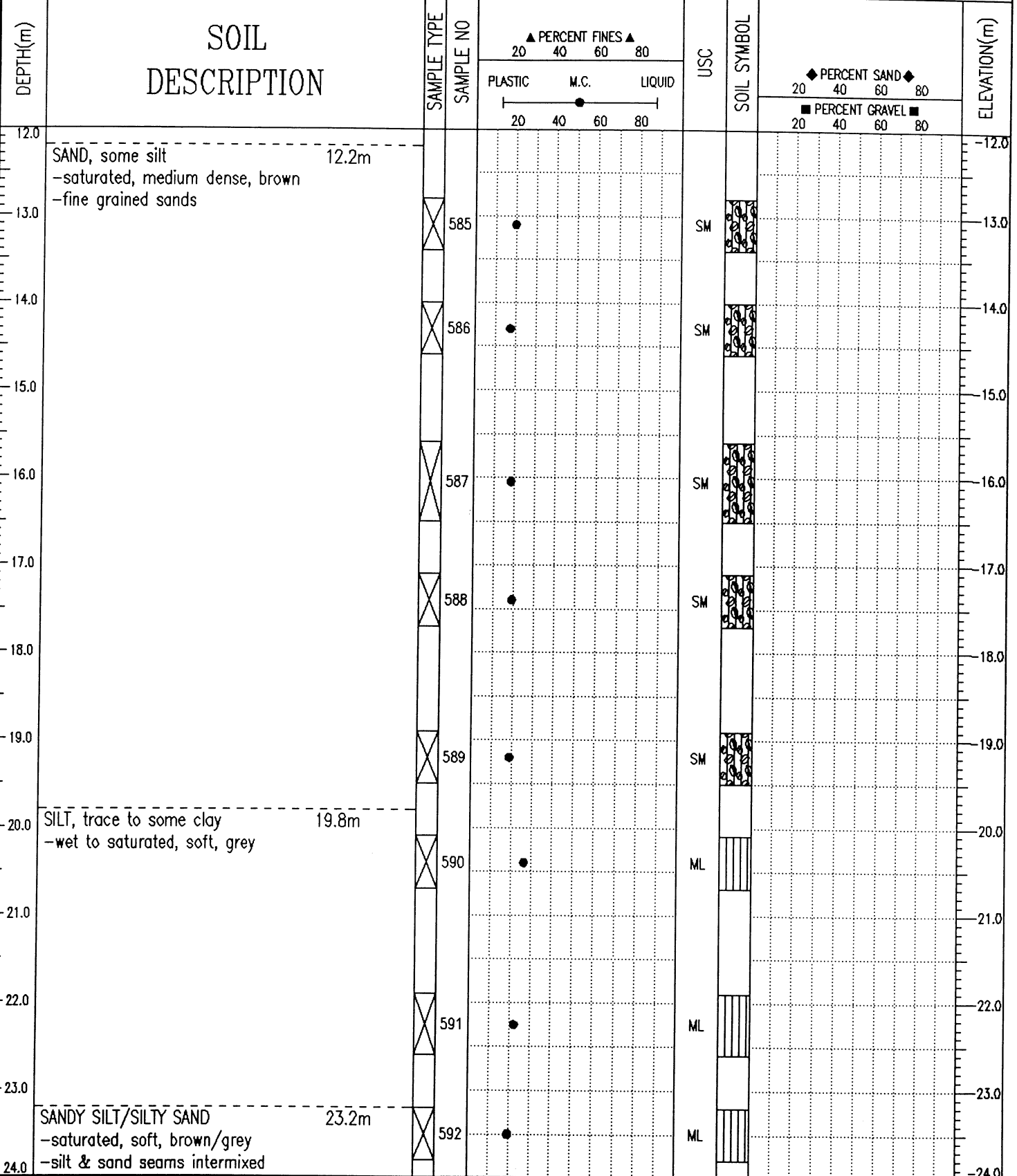


J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW  
REVIEWED BY: -  
Fig. No: 220

COMPLETION DEPTH: 30.3 m  
COMPLETE: 08/29/04

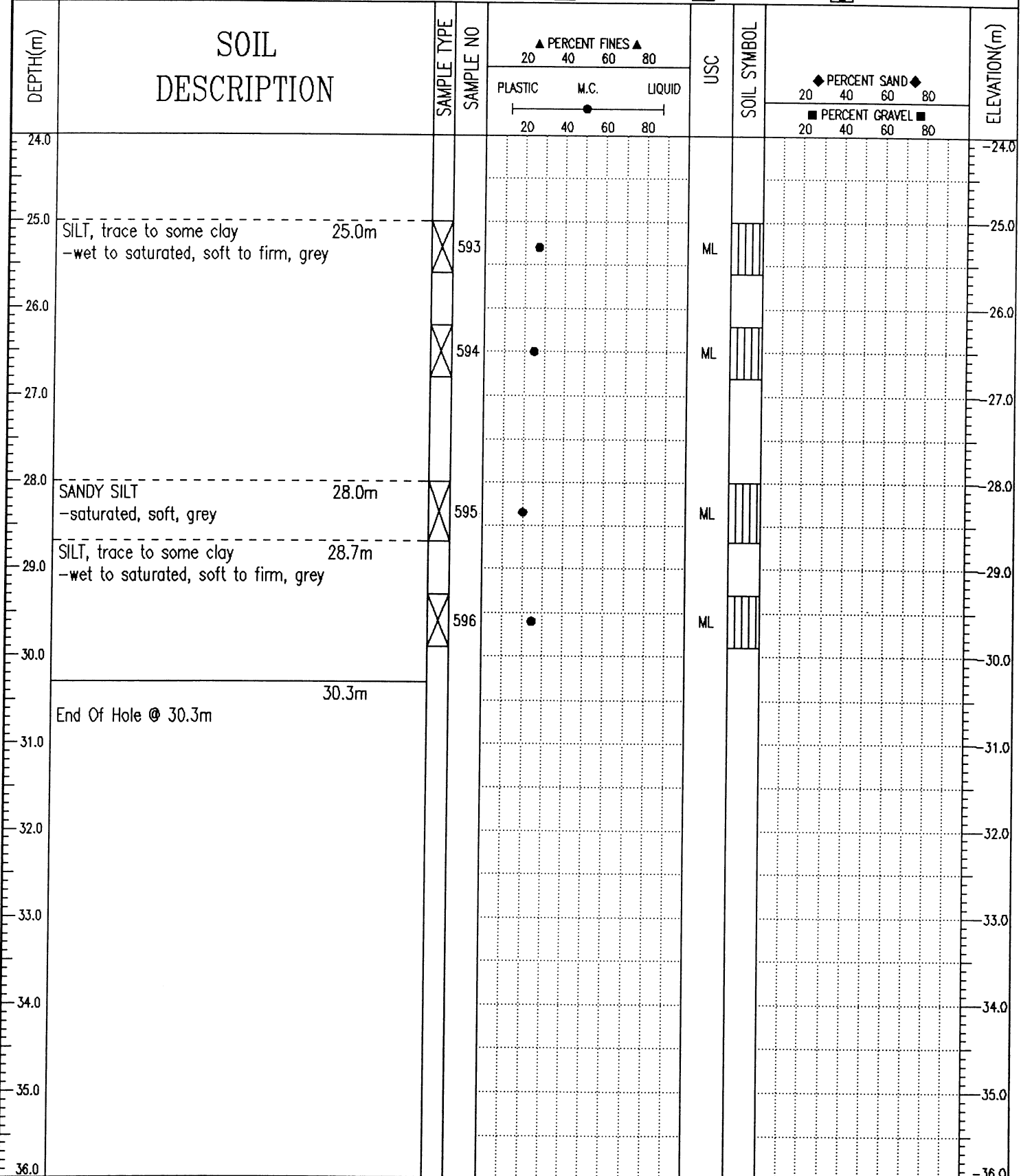
SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW	COMPLETION DEPTH: 30.3 m
REVIEWED BY: -	COMPLETE: 08/29/04
Fig. No: 220	Page 2 of 3

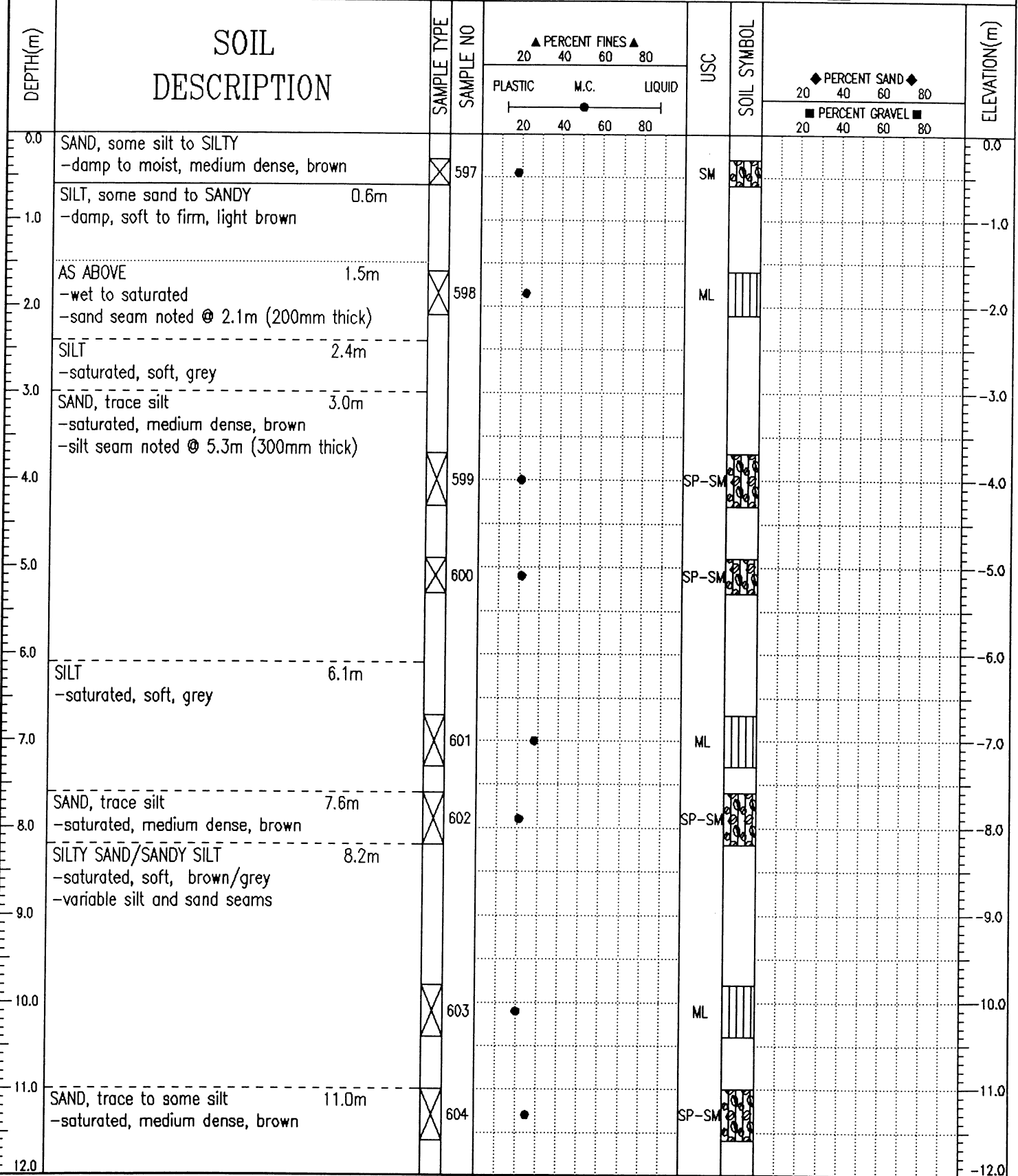
SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW	COMPLETION DEPTH: 30.3 m
REVIEWED BY: -	COMPLETE: 08/29/04
Fig. No: 220	Page 3 of 3

SAMPLE TYPE:  RETURN     S.P.T.     AUGER     BULK     TUBE     CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW	COMPLETION DEPTH: 15.1 m
REVIEWED BY: -	COMPLETE: 08/29/04
Fig. No: 221	Page 1 of 2

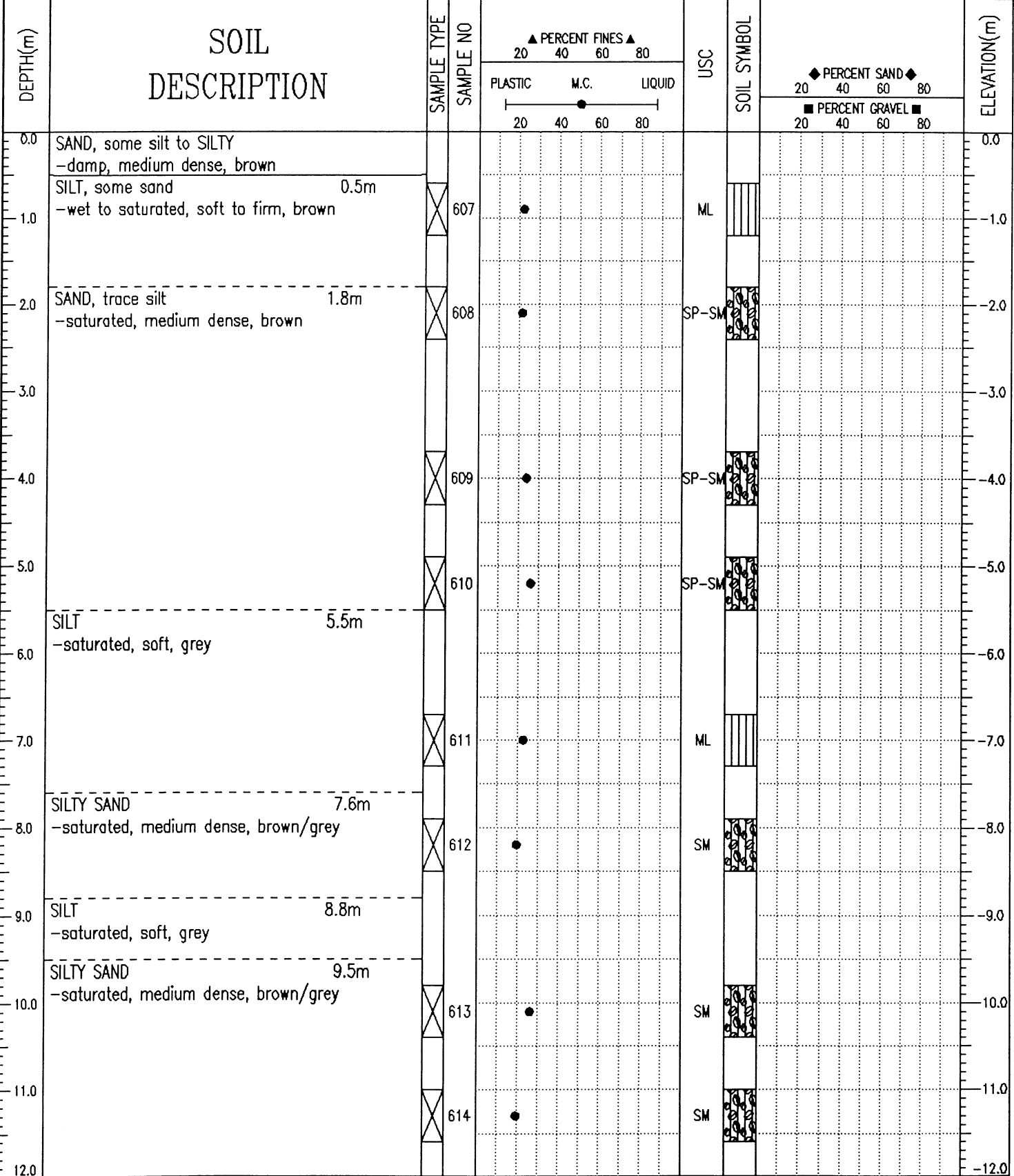
Geotechnical Services		Km 1691.7 to 1717.3 Alaska Highway #1		TEST PIT NO: 30062					
Donjek Services Ltd.		UTM ZONE: - N6765721 E634495		PROJECT NO: 8002-318					
CME75 Drill on FN60 Flextrac Nodwell				ELEVATION:					
SAMPLE TYPE		<input type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK				
		<input type="checkbox"/> TUBE	<input type="checkbox"/> CORE						
DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES			USC	SOIL SYMBOL	ELEVATION (m)
				PLASTIC	M.C.	LIQUID			
12.0	SAND, some silt to SILTY -saturated, medium dense, brown								-12.0
13.0		X	605	●			SM		-13.0
14.0		X	606	●			SM		-14.0
15.0	End Of Hole @ 15.1m								-15.0
16.0									-16.0
17.0									-17.0
18.0									-18.0
19.0									-19.0
20.0									-20.0
21.0									-21.0
22.0									-22.0
23.0									-23.0
24.0									-24.0

J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW  
REVIEWED BY:  
Fig. No: 221

COMPLETION DEPTH: 15.1 m  
COMPLETE: 08/29/04  
Page 2 of 2

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

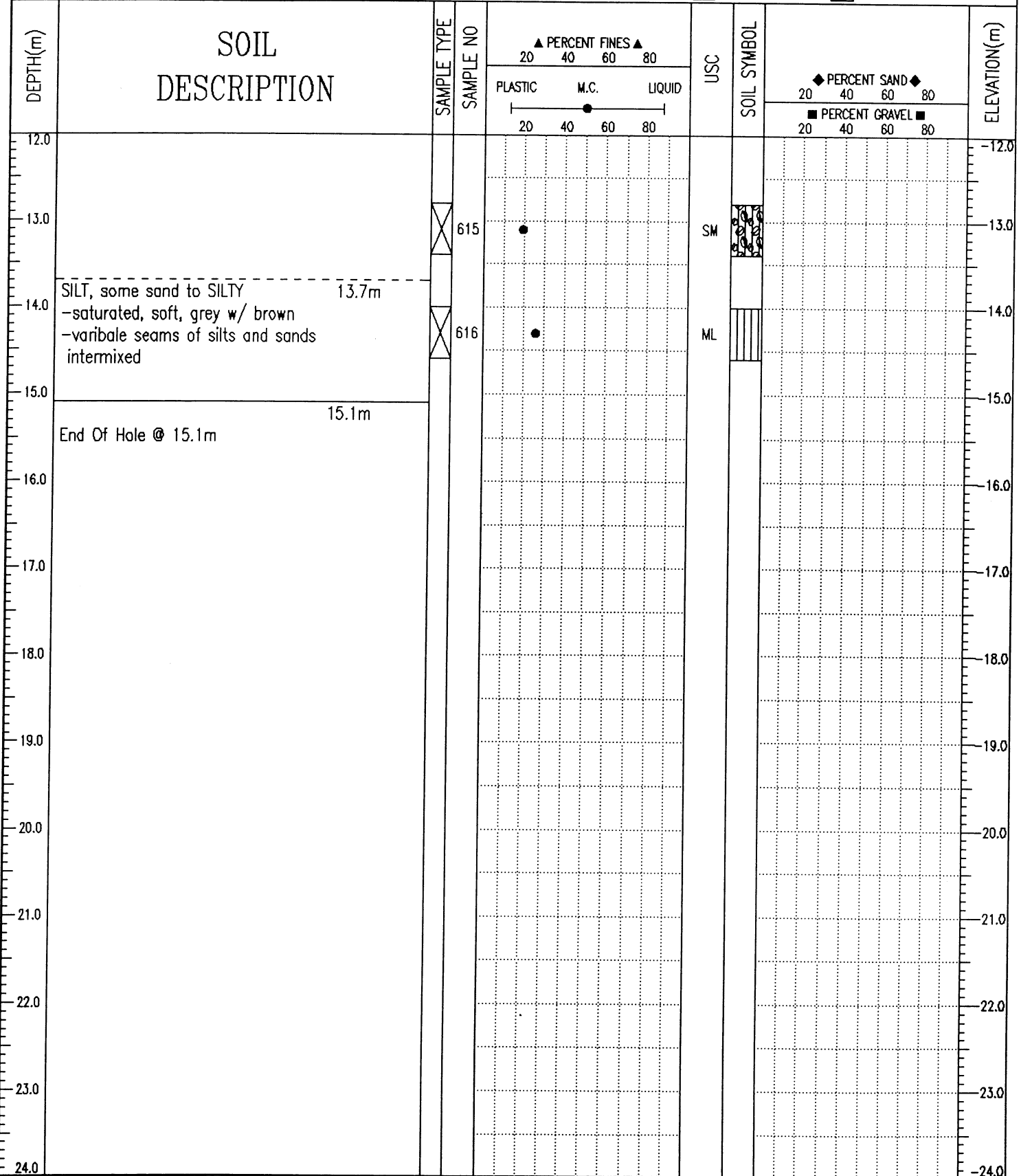


J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW	COMPLETION DEPTH: 15.1 m
REVIEWED BY: -	COMPLETE: 08/29/04
Fig. No: 222	Page 1 of 2

Geotechnical Services	Km 1691.7 to 1717.3 Alaska Highway #1	TEST PIT NO: 30063
Donjek Services Ltd.	UTM ZONE: - N6765883 E634376	PROJECT NO: 8002-318
CME75 Drill on FN60 Flextrac Nodwell		ELEVATION:

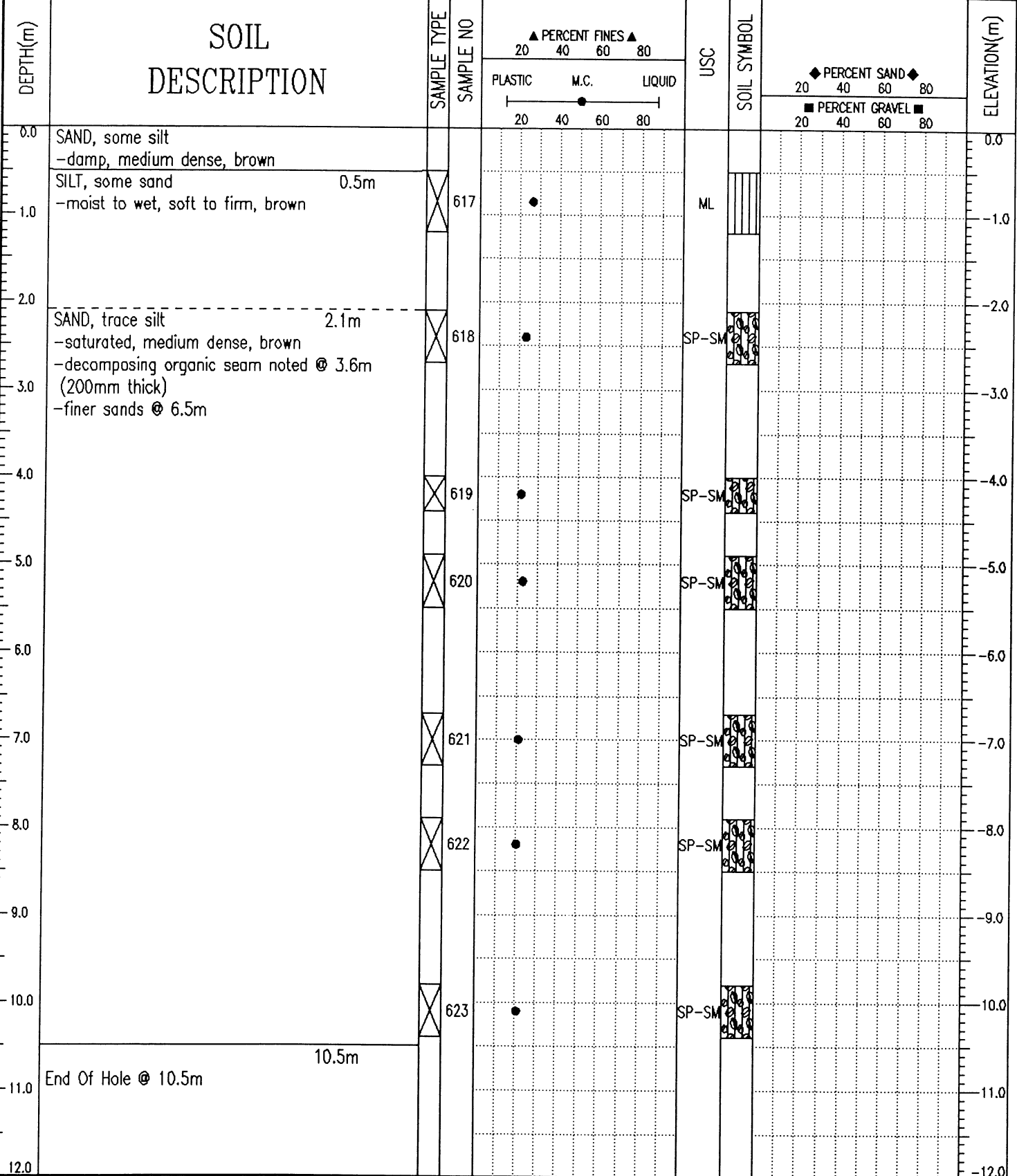
SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

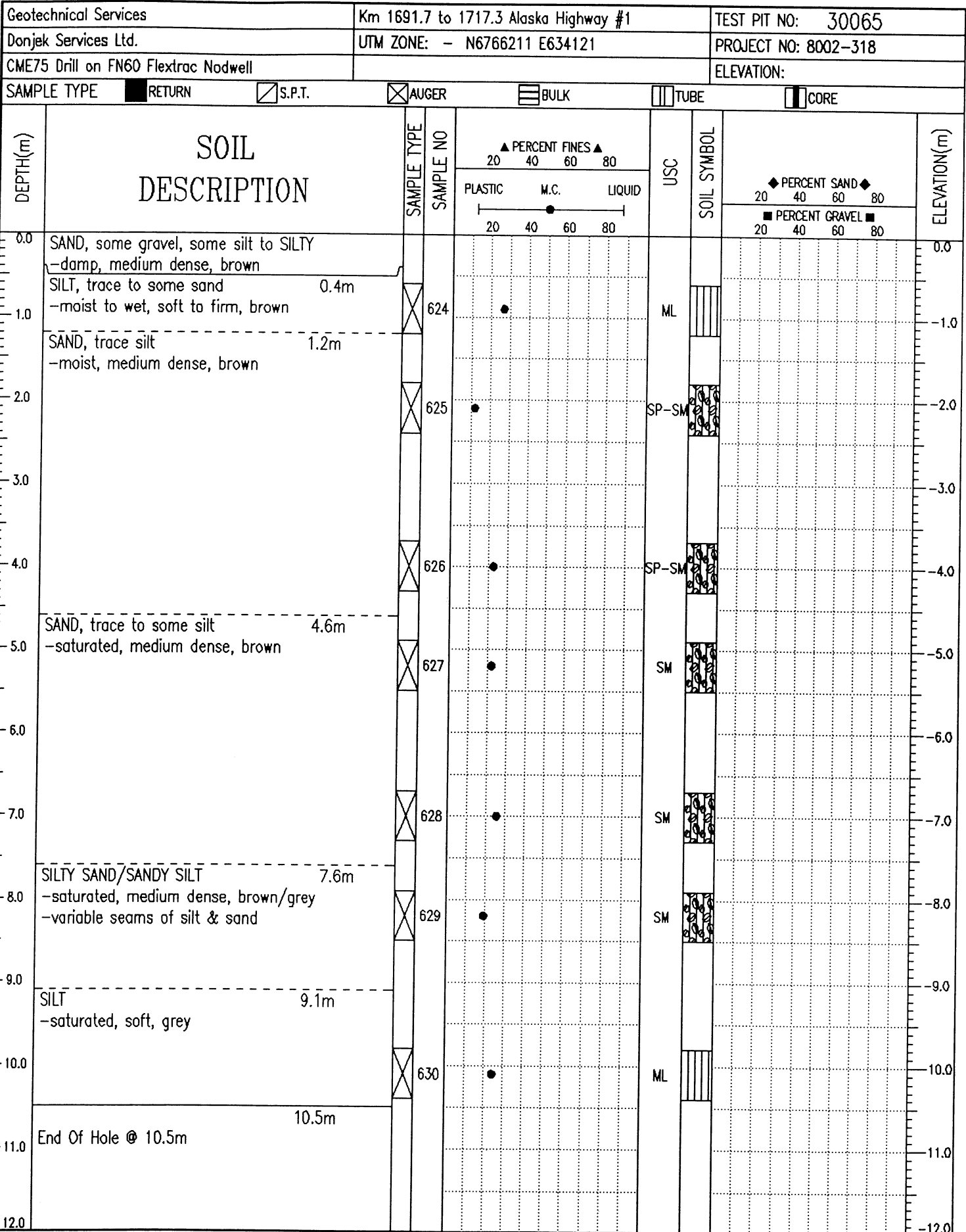
LOGGED BY: RW	COMPLETION DEPTH: 15.1 m
REVIEWED BY: -	COMPLETE: 08/29/04
Fig. No: 222	Page 2 of 2

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW	COMPLETION DEPTH: 10.5 m
REVIEWED BY: -	COMPLETE: 08/29/04
Fig. No: 223	Page 1 of 1

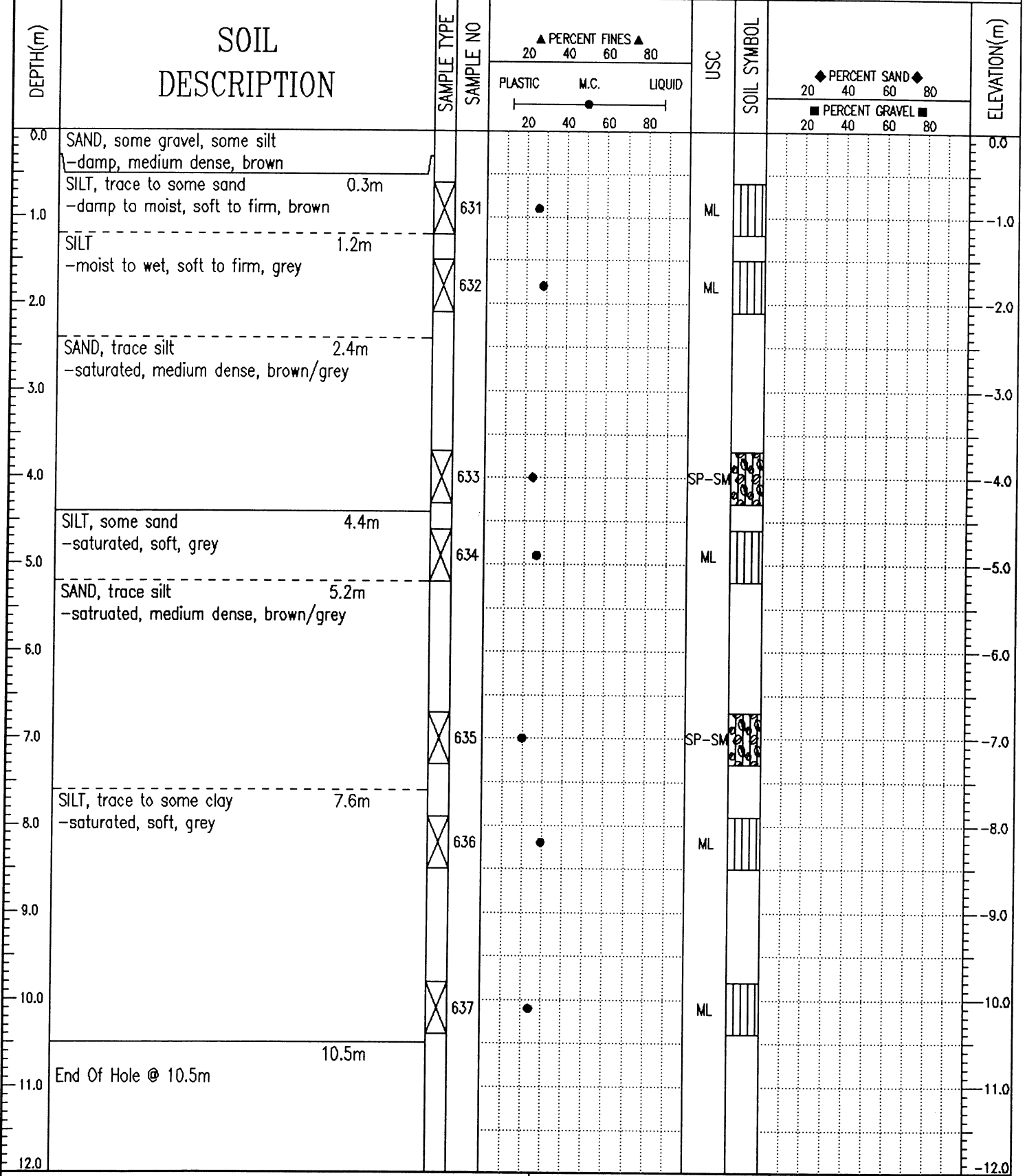


J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

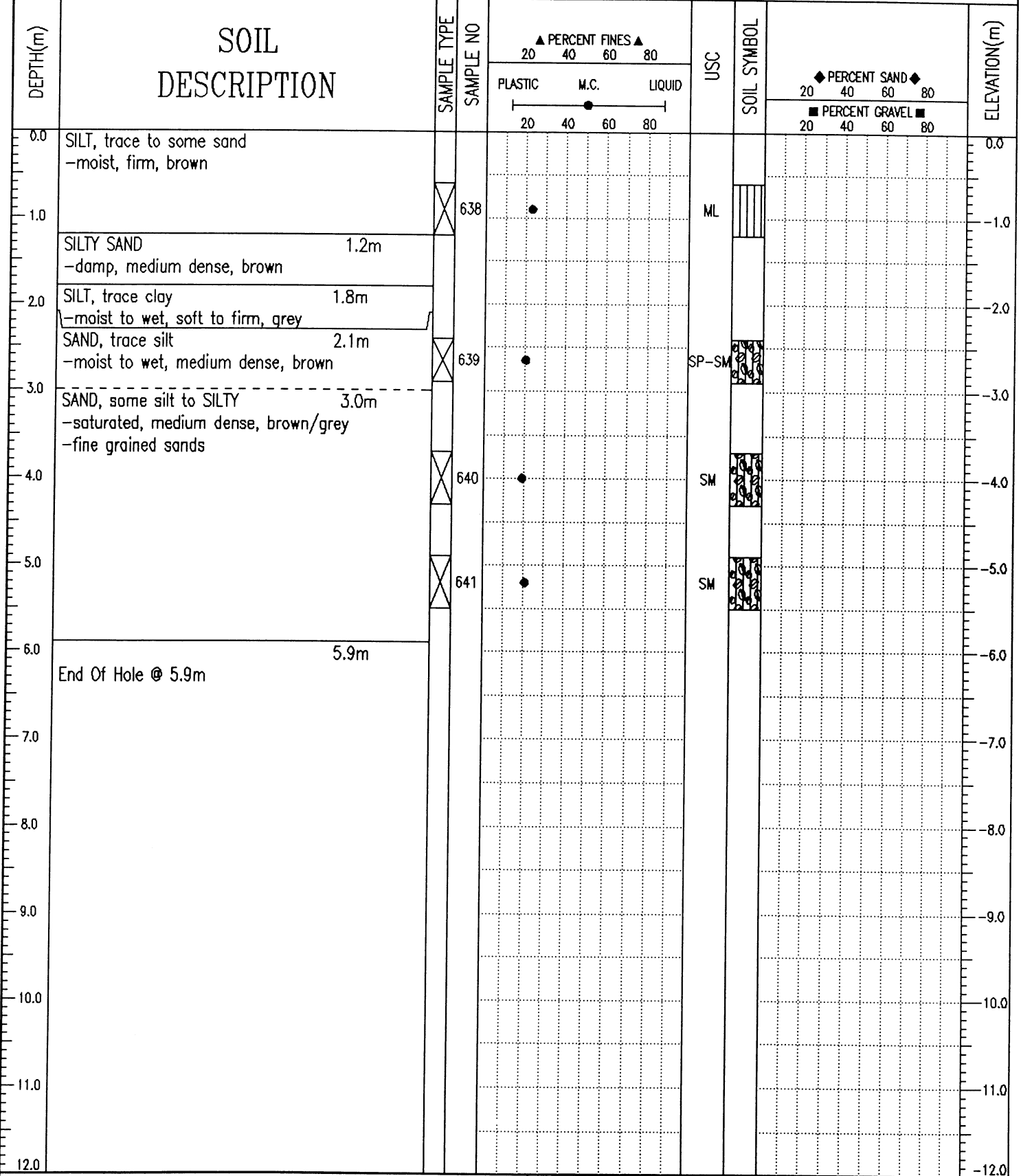
LOGGED BY: RW  
REVIEWED BY: -  
Fig. No: 224

COMPLETION DEPTH: 10.5 m  
COMPLETE: 08/30/04  
Page 1 of 1

SAMPLE TYPE    RETURN    S.P.T.    AUGER    BULK    TUBE    CORE



SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

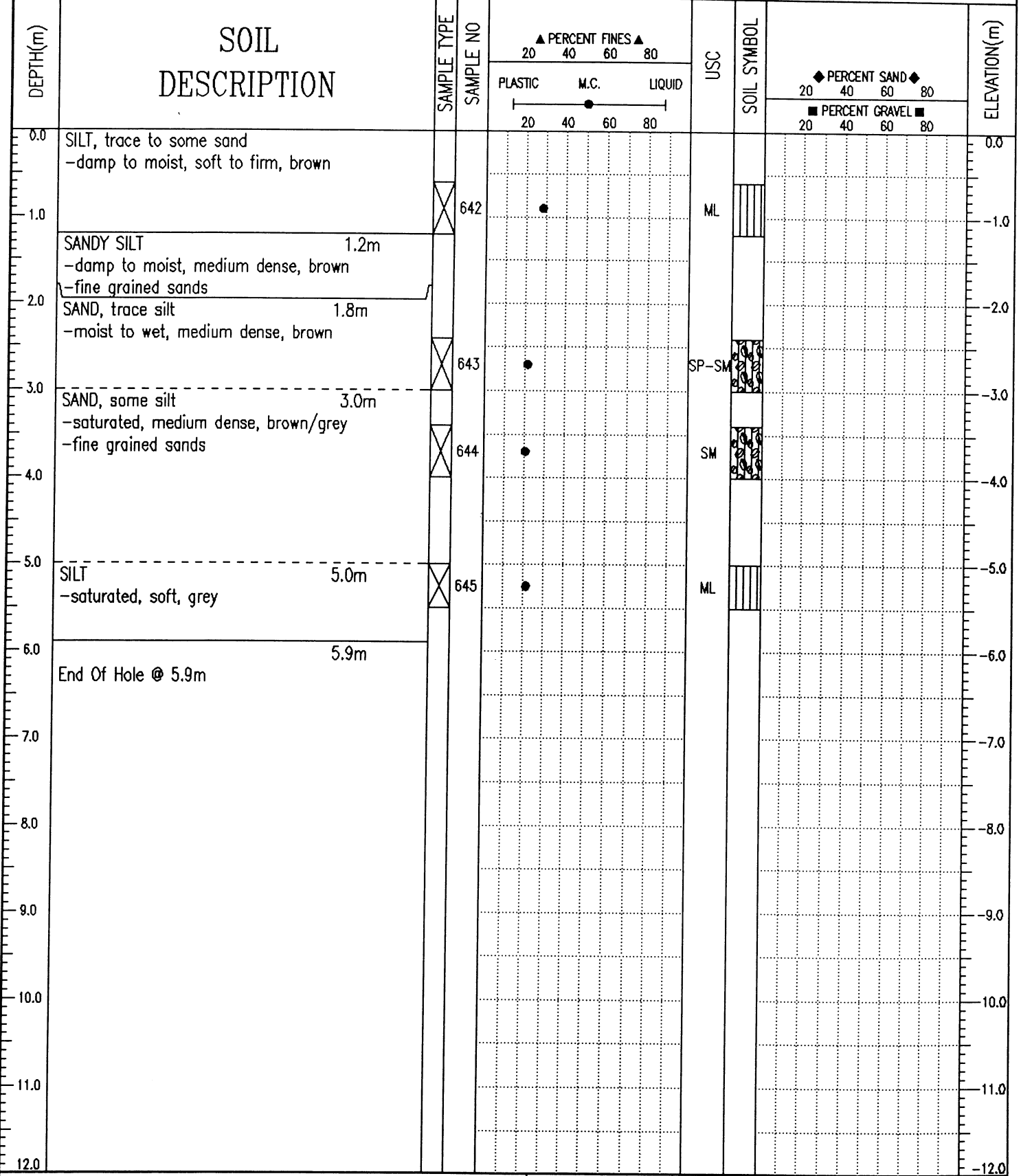


J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW	COMPLETION DEPTH: 5.9 m
REVIEWED BY: -	COMPLETE: 08/30/04
Fig. No: 226	Page 1 of 1

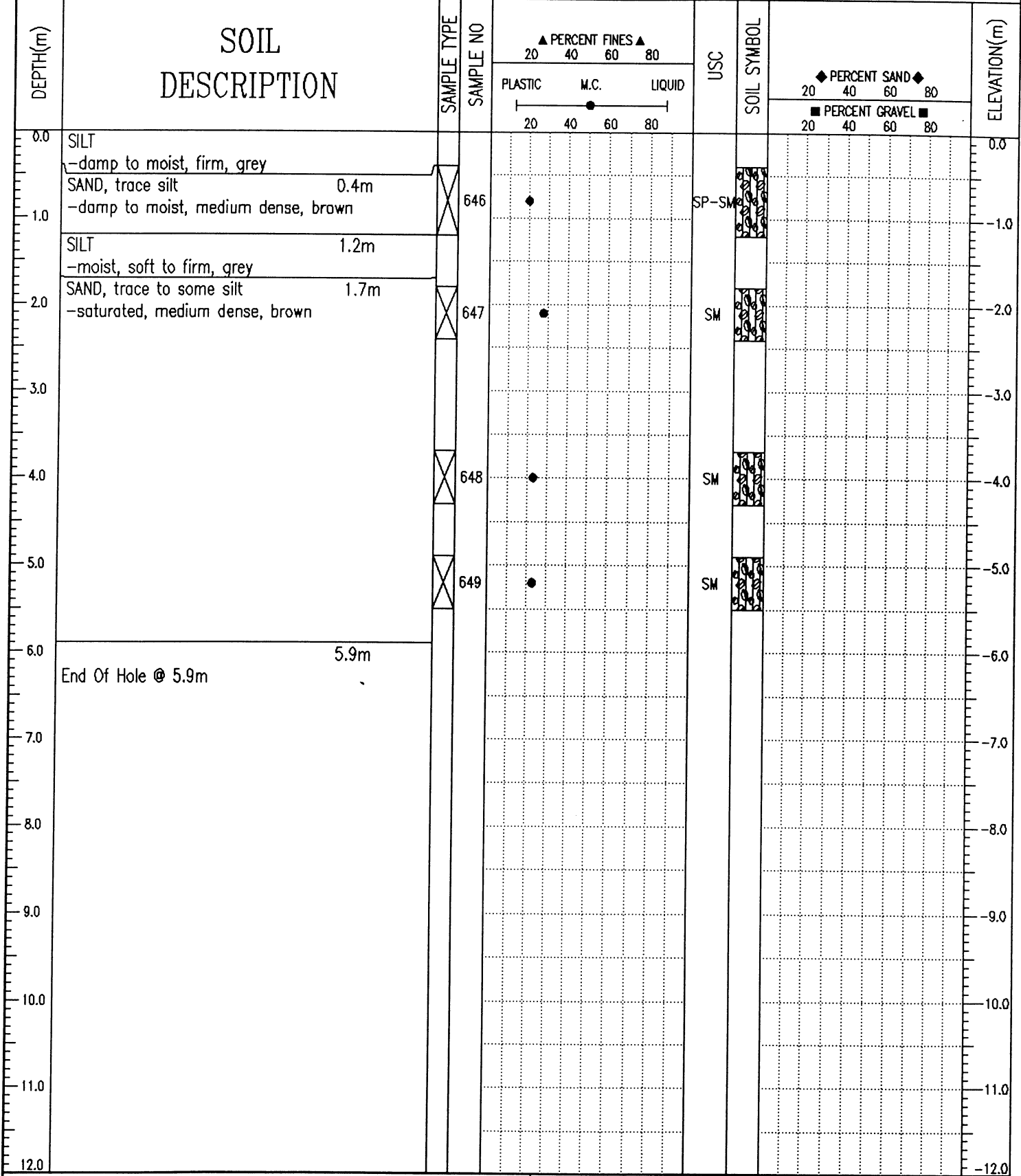
Geotechnical Services      Km 1691.7 to 1717.3 Alaska Highway #1      TEST PIT NO: 30068  
 Donjek Services Ltd.      UTM ZONE: - N6766749 E633842      PROJECT NO: 8002-318  
 CME75 Drill on FN60 Flextrac Nodwell      ELEVATION:

SAMPLE TYPE     RETURN     S.P.T.     AUGER     BULK     TUBE     CORE



<b>J. R. Paine &amp; Associates Ltd.</b> Whitehorse, Yukon	LOGGED BY: RW	COMPLETION DEPTH: 5.9 m
	REVIEWED BY: -	COMPLETE: 08/30/04
	Fig. No: 227	Page 1 of 1

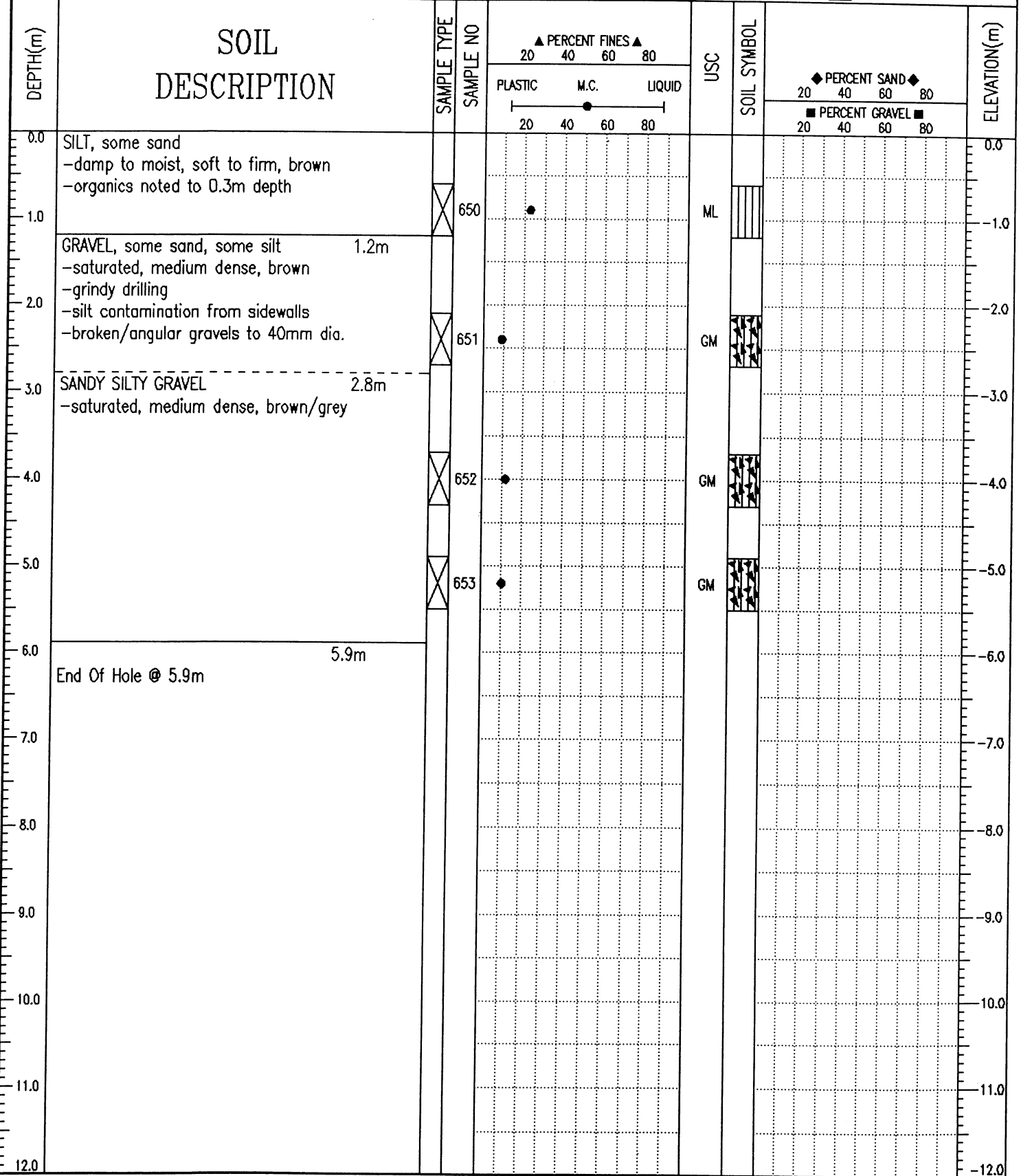
SAMPLE TYPE    RETURN    S.P.T.    AUGER    BULK    TUBE    CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW	COMPLETION DEPTH: 5.9 m
REVIEWED BY: -	COMPLETE: 08/30/04
Fig. No: 228	Page 1 of 1

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

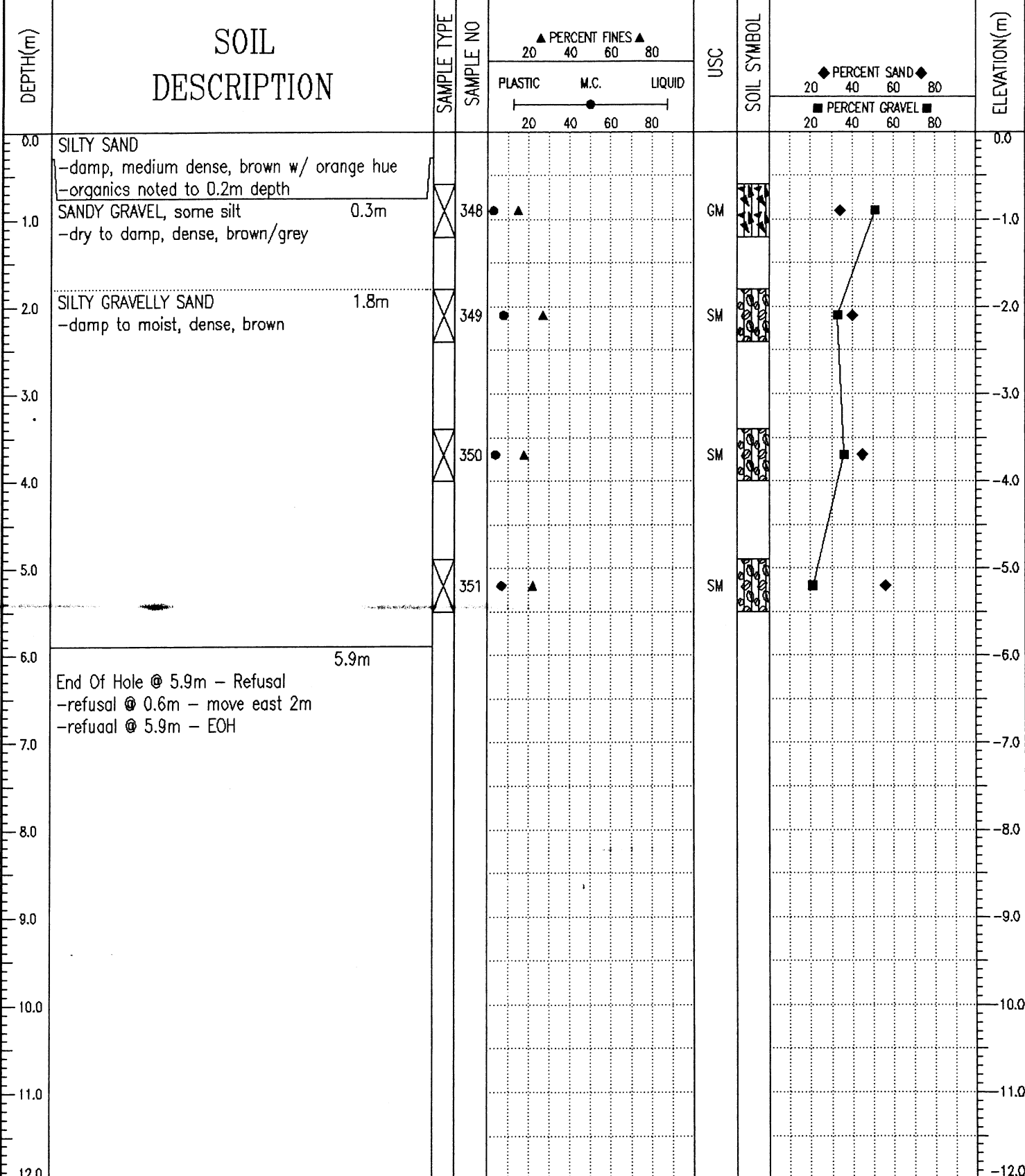
LOGGED BY: RW	COMPLETION DEPTH: 5.9 m
REVIEWED BY: -	COMPLETE: 08/30/04
Fig. No: 229	Page 1 of 1

Geotechnical Services Km 1691.7 to 1717.3 Alaska Highway #1 TEST PIT NO: 30082

Donjek Services Ltd. UTM ZONE: - N6768928 E635159 PROJECT NO: 8002-318

CME75 Drill on FN60 Flextrac Nadwell ELEVATION:

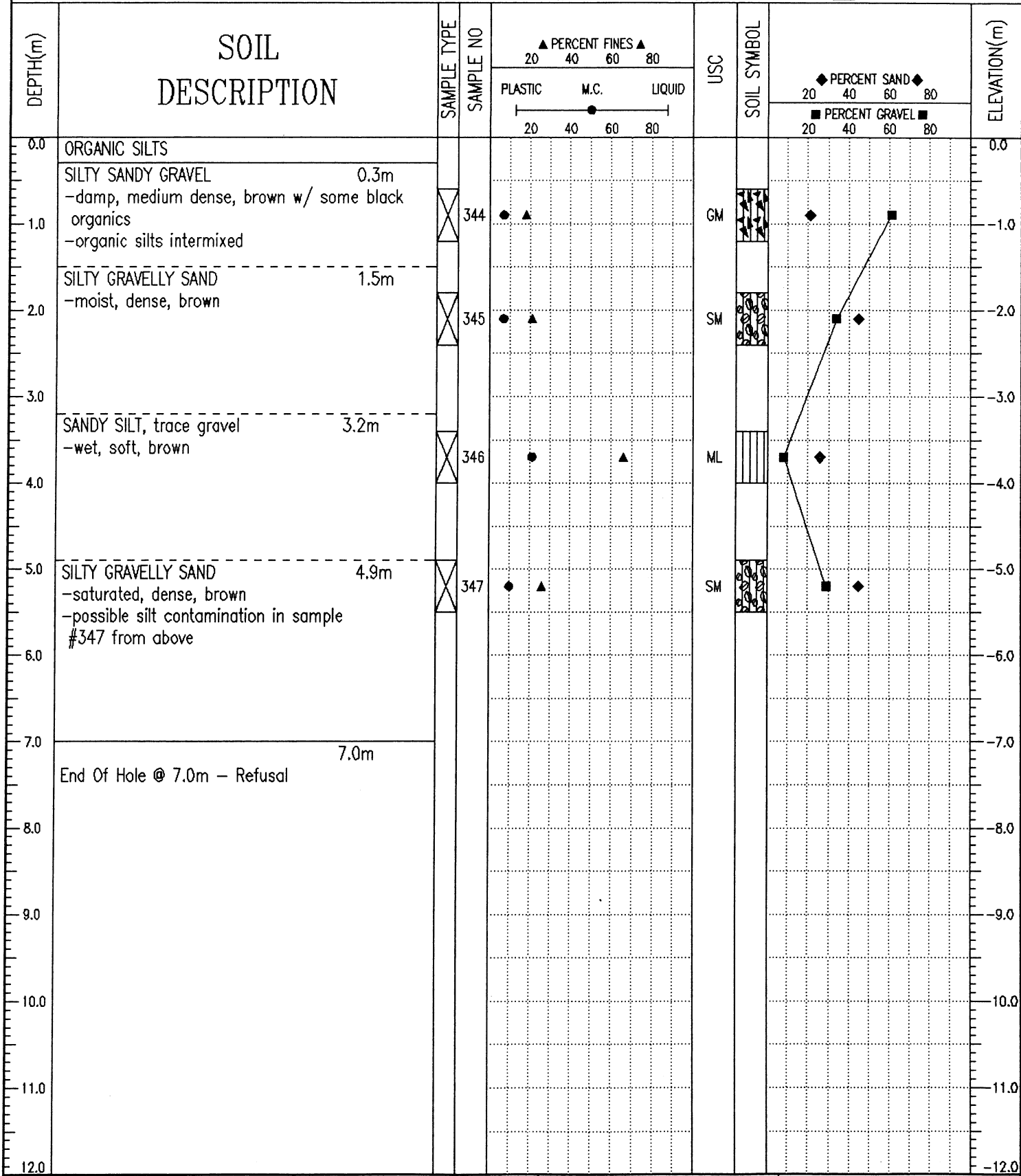
SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

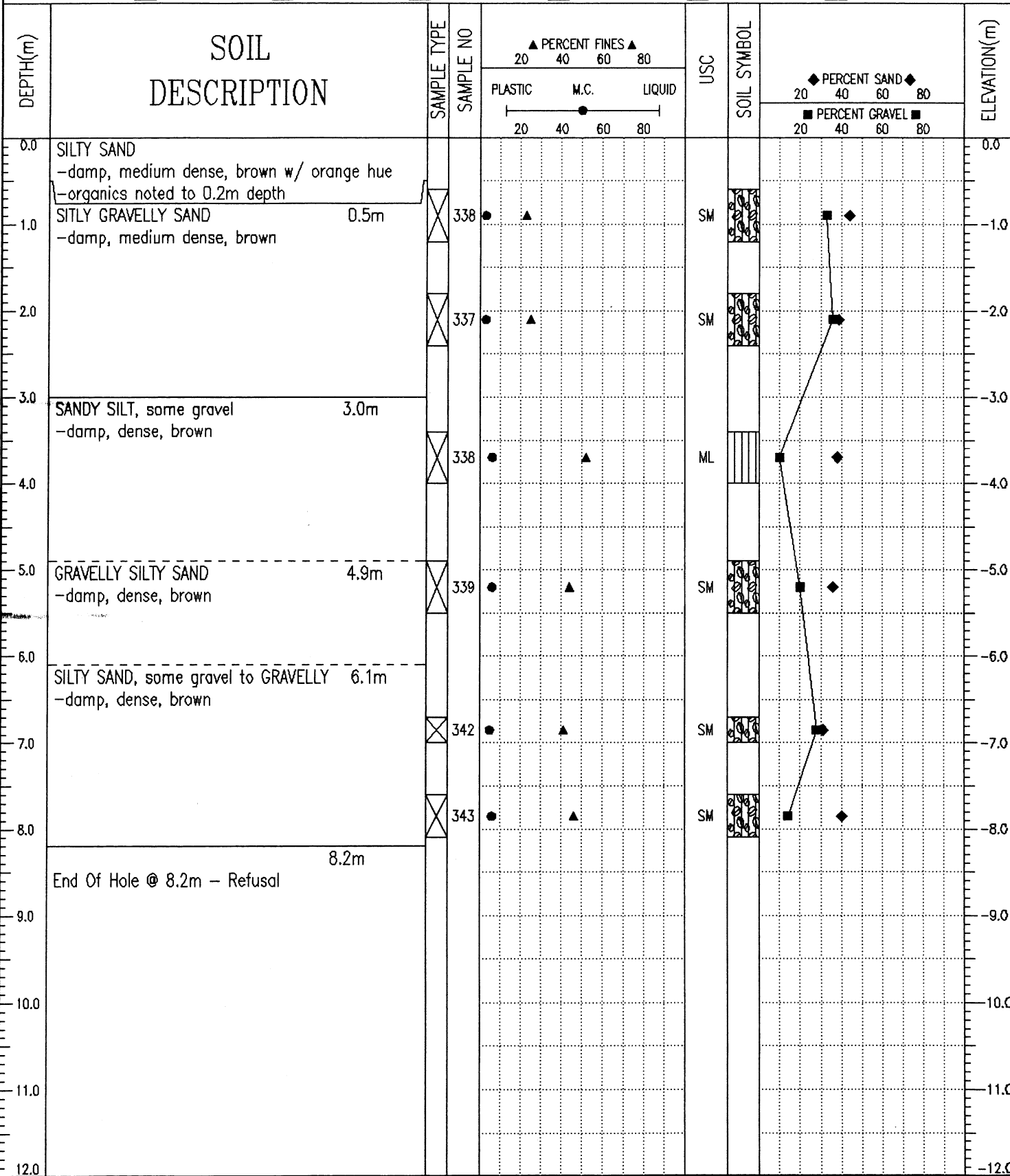
LOGGED BY: RW  
REVIEWED BY:  
Fig. No: 84  
COMPLETION DEPTH: 5.9 m  
COMPLETE: 08/15/04  
Page 1 of 1

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



<b>J. R. Paine &amp; Associates Ltd.</b> Whitehorse, Yukon	LOGGED BY: RW REVIEWED BY: Fig. No: 83	COMPLETION DEPTH: 7 m COMPLETE: 08/15/04
---	--	---

SAMPLE TYPE    RETURN    S.P.T.    AUGER    BULK    TUBE    CORE

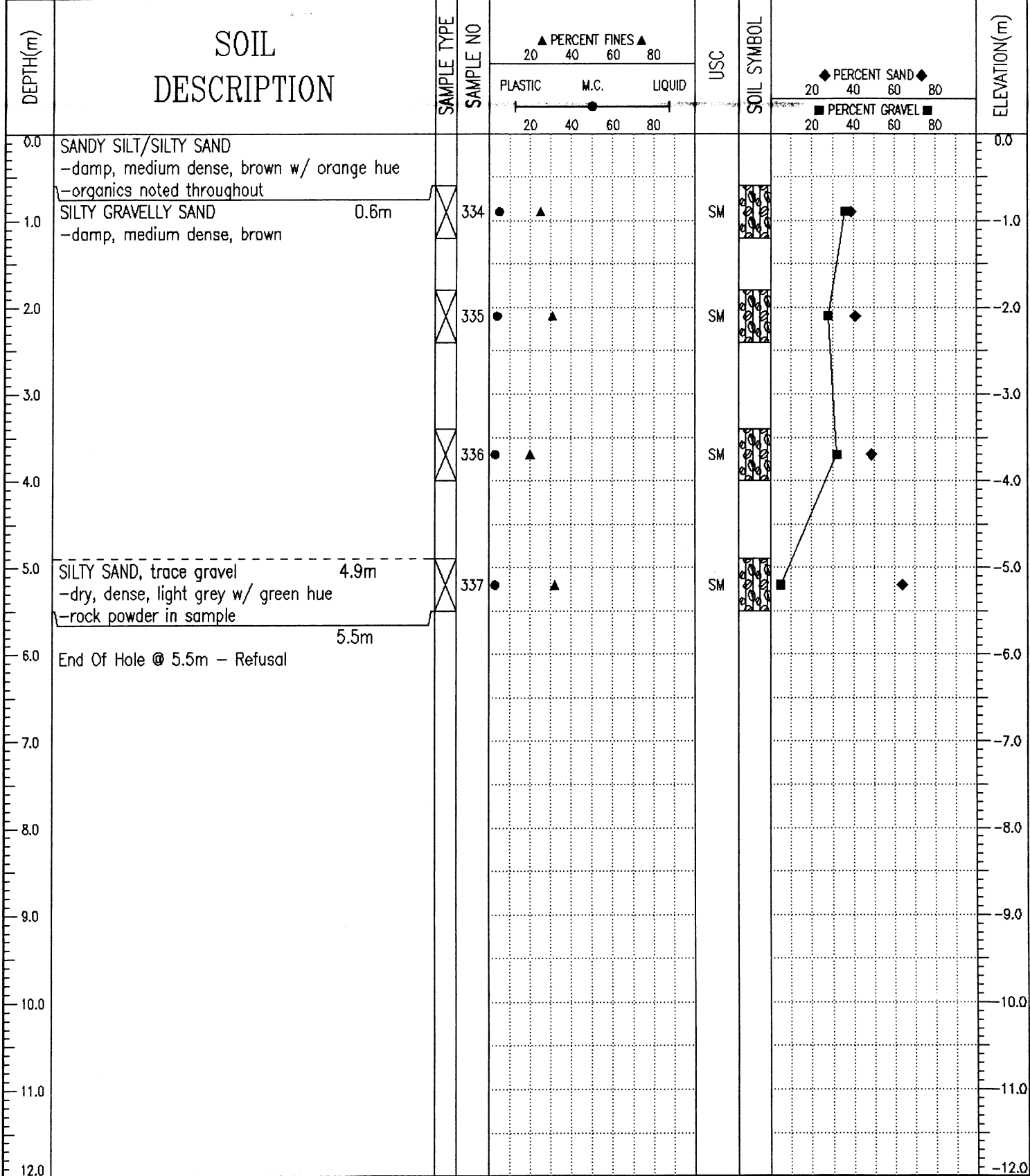


J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

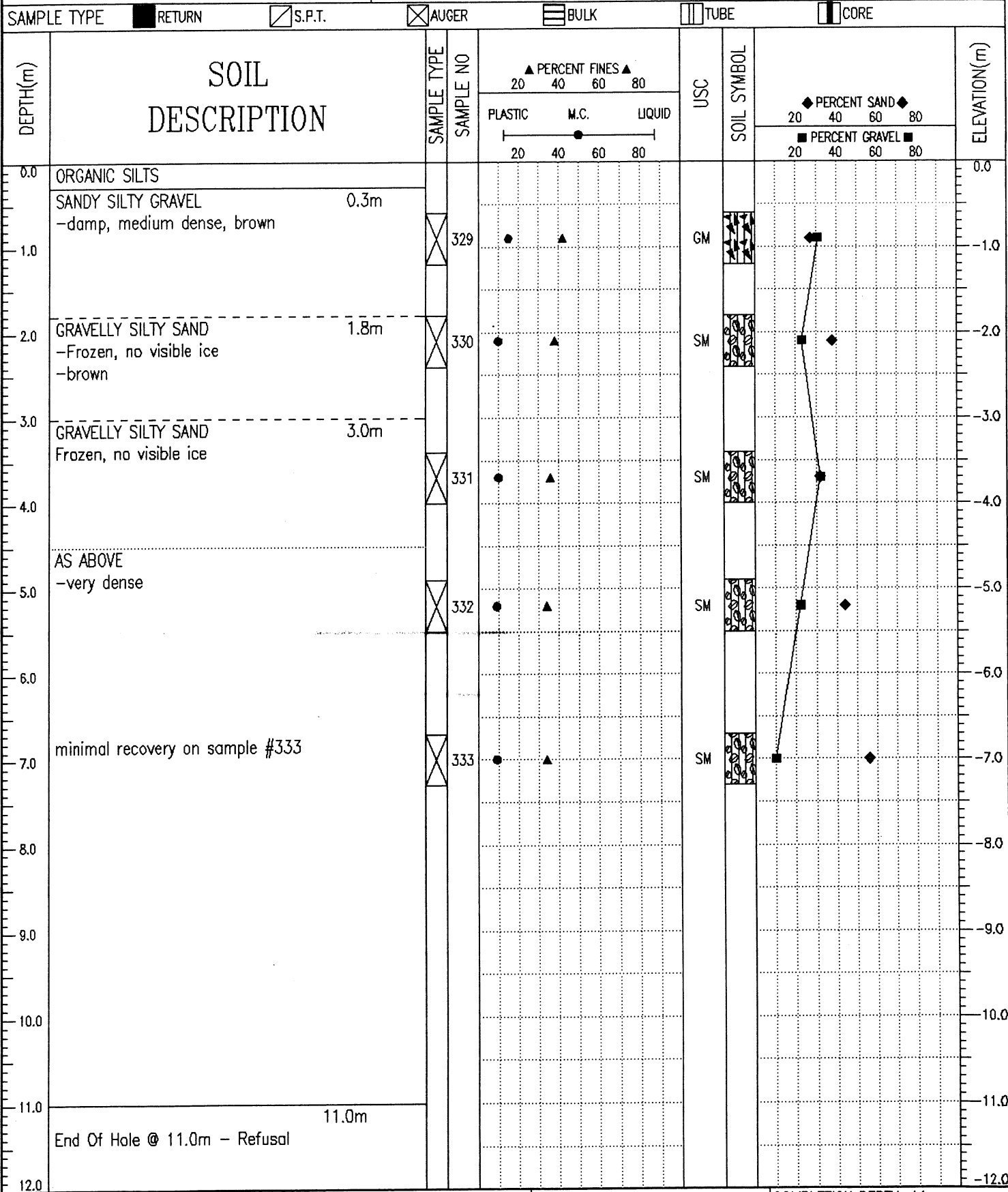
LOGGED BY: RW  
REVIEWED BY:  
Fig. No: 82

COMPLETION DEPTH: 8.2 m  
COMPLETE: 08/15/04

SAMPLE TYPE     RETURN     S.P.T.     AUGER     BULK     TUBE     CORE



05/02/10 07:25AM (YIG\_HHTS)



**J. R. Paine & Associates Ltd.**  
Whitehorse, Yukon

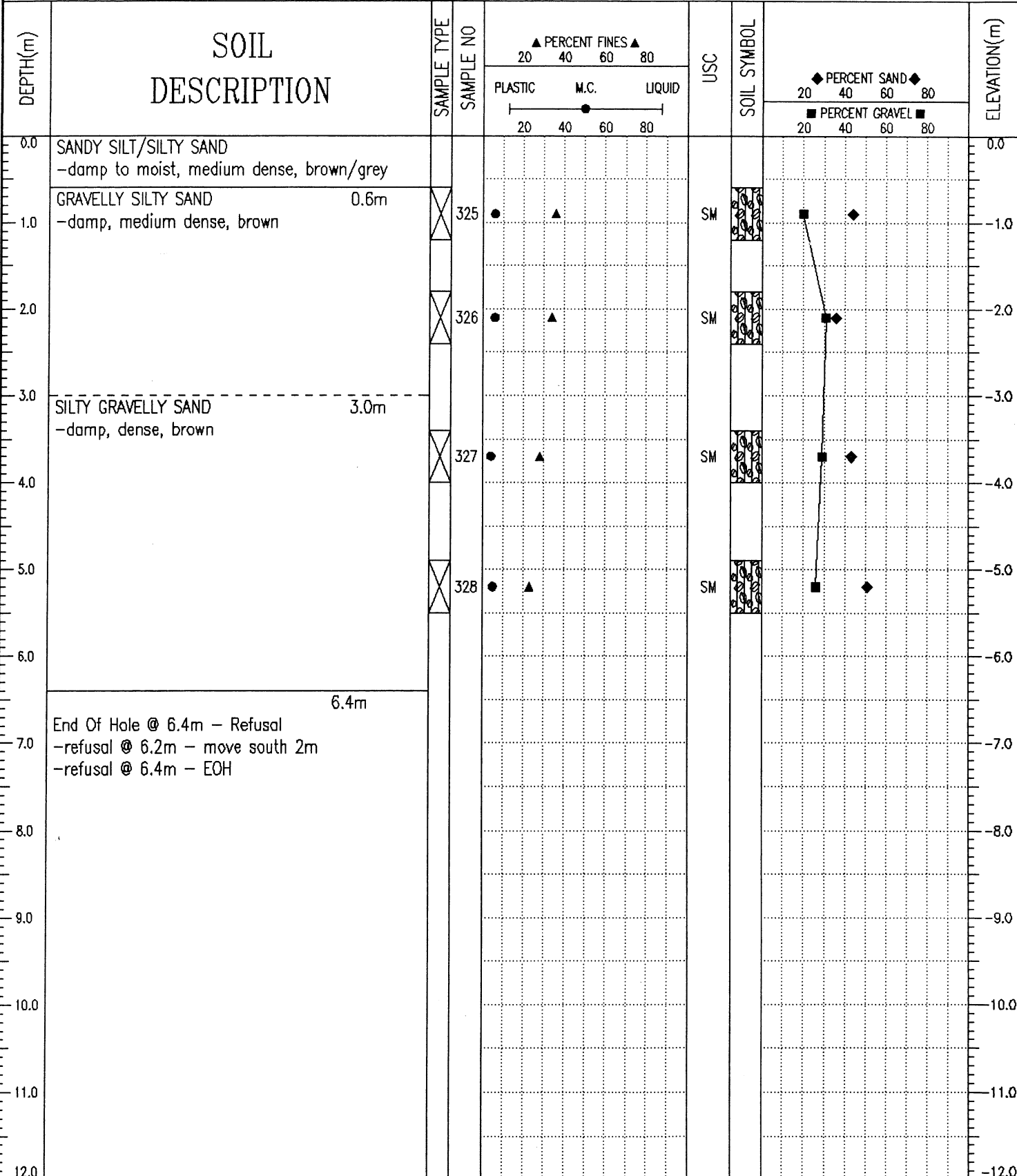
LOGGED BY: RW	COMPLETION DEPTH: 11 m
REVIEWED BY:	COMPLETE: 08/15/04
Fig. No: 80	Page 1 of 1

Geotechnical Services Km 1691.7 to 1717.3 Alaska Highway #1 TEST PIT NO: 30087

Donjek Services Ltd. UTM ZONE: - N6769468 E635121 PROJECT NO: 8002-318

CME75 Drill on FN60 Flextrac Nodwell ELEVATION:

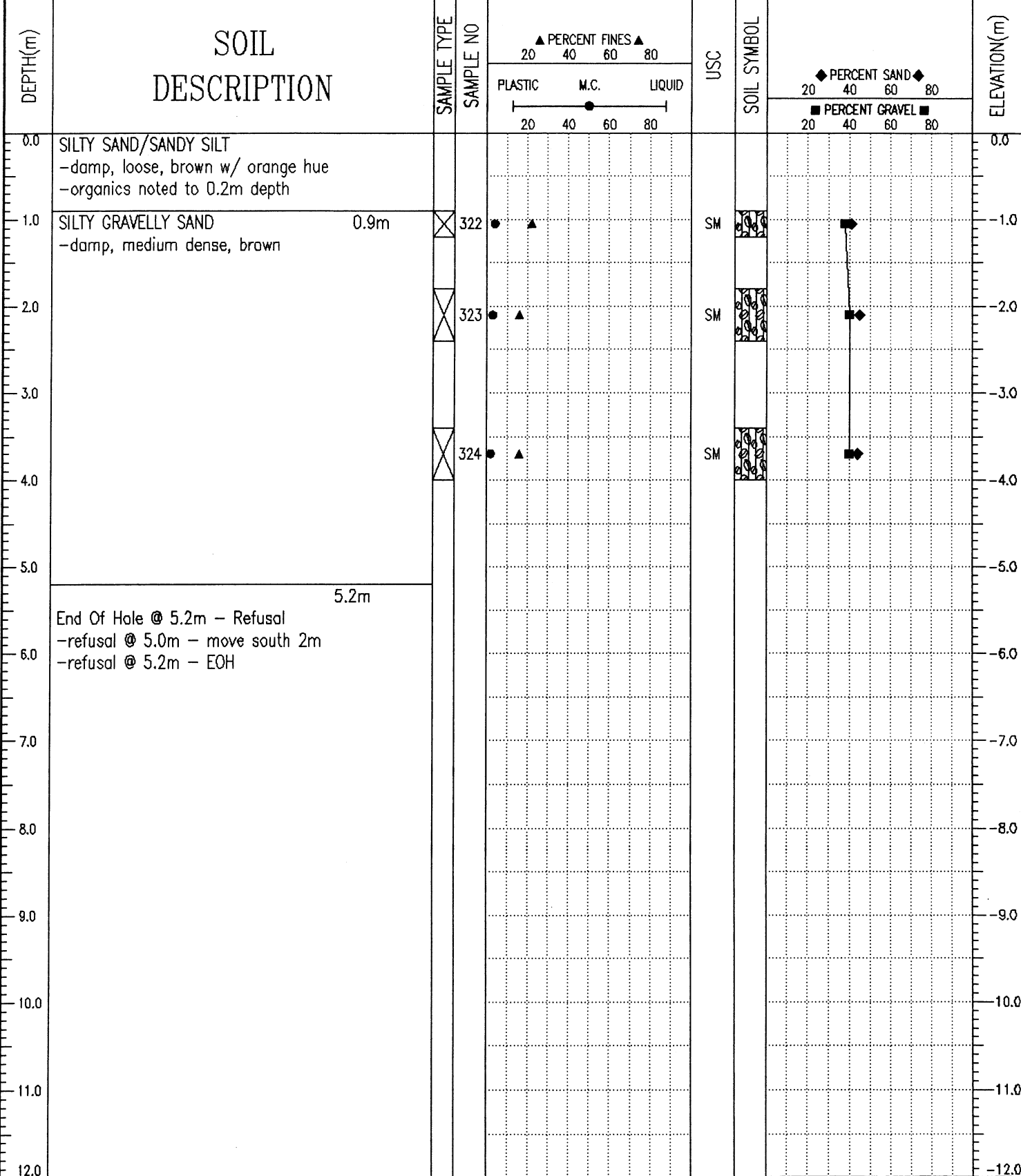
SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW  
REVIEWED BY:  
Fig. No: 79  
COMPLETION DEPTH: 6.4 m  
COMPLETE: 08/15/04  
Page 1 of 1

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



05/02/10 07:27AM (YIG\_LHWYS)

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

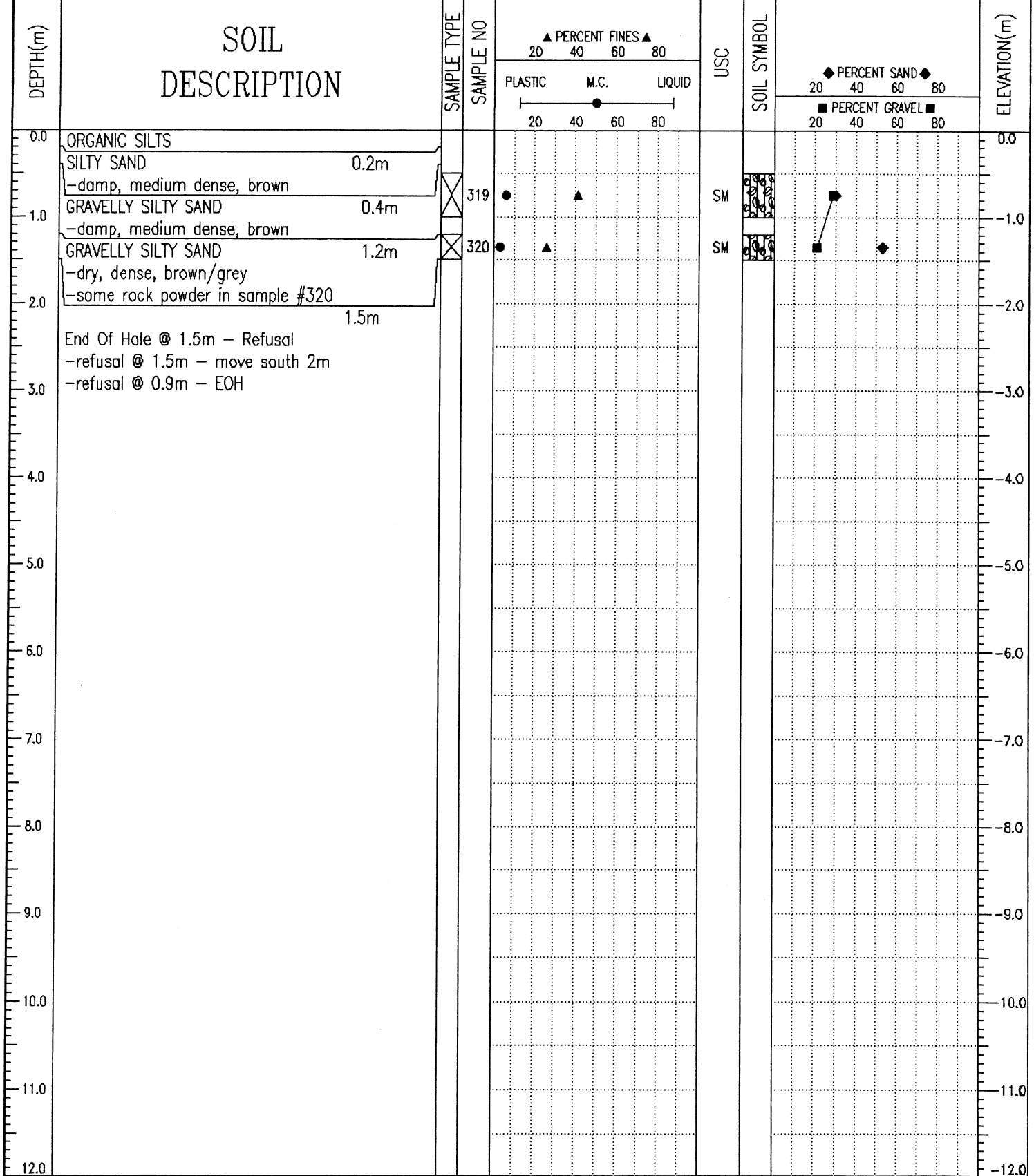
DEPTH(m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲ 20 40 60 80 PLASTIC M.C. LIQUID 20 40 60 80	USC	SOIL SYMBOL	PERCENT SAND ◆ 20 40 60 80 PERCENT GRAVEL ■ 20 40 60 80	ELEVATION(m)
0.0	SILT, some sand -dry to damp, loose, brown /w orange hue -organics noted to 0.2m		321	● (20) ● (60) ▲ (80)	ML	■ ◆		0.0
0.6	End Of Hole @ 0.6m - Refusal -refusal @ 0.6m - move south 2m -refusal @ 0.6m - EOH							-1.0
1.0								-2.0
2.0								-3.0
3.0								-4.0
4.0								-5.0
5.0								-6.0
6.0								-7.0
7.0								-8.0
8.0								-9.0
9.0								-10.0
10.0								-11.0
11.0								-12.0

Geotechnical Services Km 1691.7 to 1717.3 Alaska Highway #1 TEST PIT NO: 30090

Donjek Services Ltd. UTM ZONE: - N6769660 E635061 PROJECT NO: 8002-318

CME75 Drill on FN60 Flextrac Nadwell ELEVATION:

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



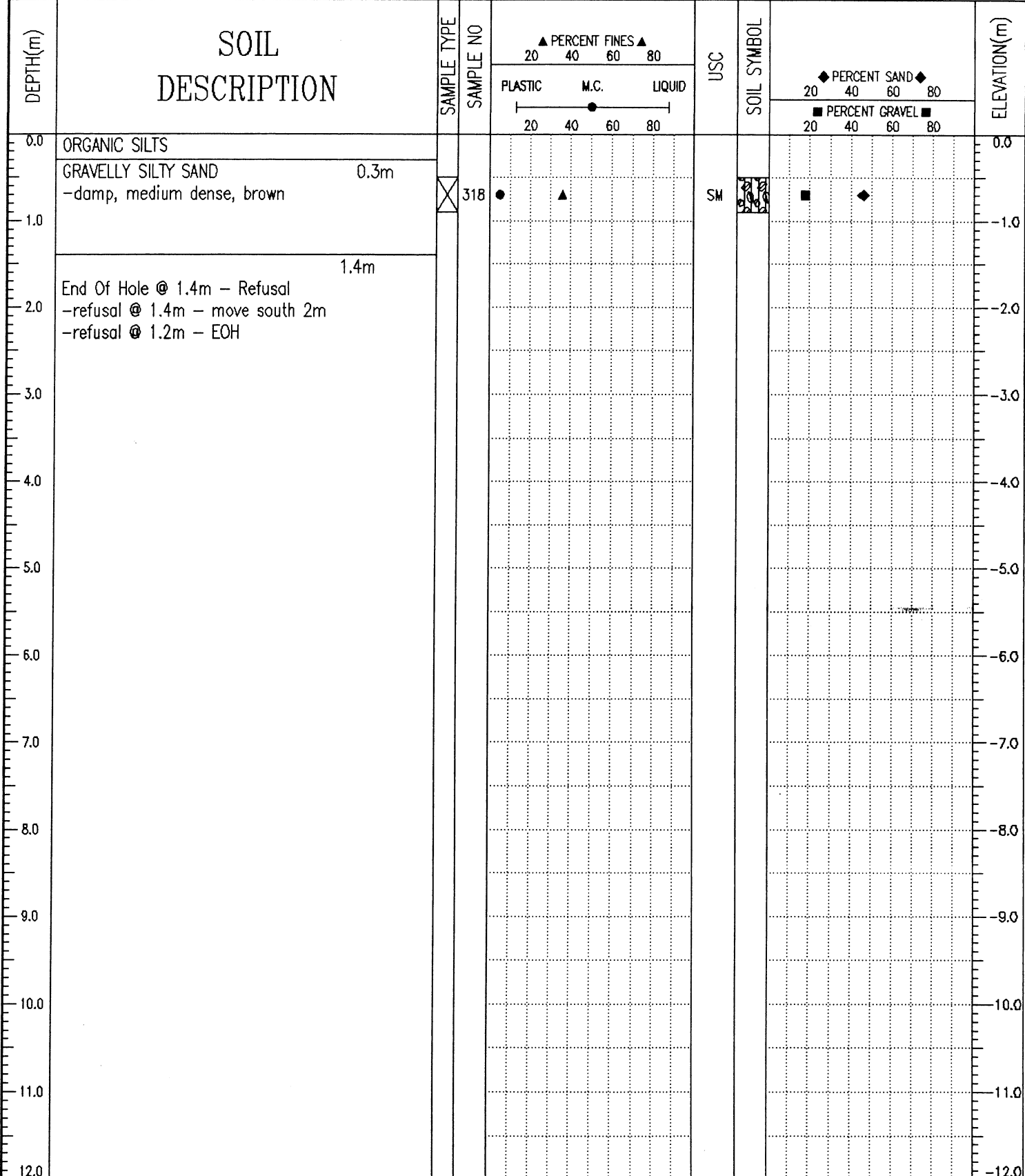
J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW  
REVIEWED BY:  
Fig. No: 76

COMPLETION DEPTH: 1.5 m  
COMPLETE: 08/15/04  
Page 1 of 1

Geotechnical Services	Km 1691.7 to 1717.3 Alaska Highway #1	TEST PIT NO: 30091
Donjek Services Ltd.	UTM ZONE: - N6769701 E635044	PROJECT NO: 8002-318
CME75 Drill on FN60 Flextrac Nodwell		ELEVATION:

SAMPLE TYPE    RETURN    S.P.T.    AUGER    BULK    TUBE    CORE



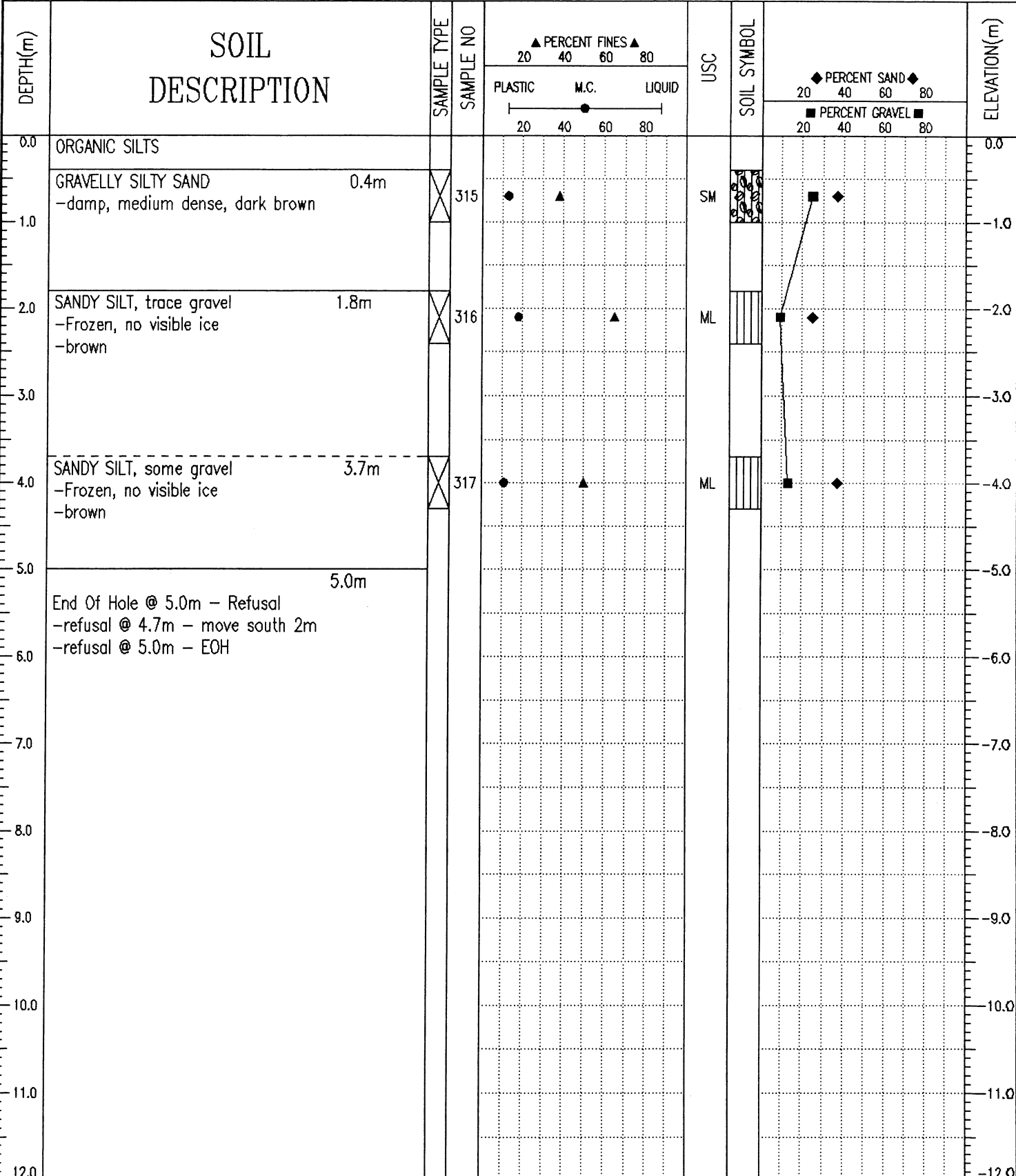
<b>J. R. Paine &amp; Associates Ltd.</b> Whitehorse, Yukon	LOGGED BY: RW	COMPLETION DEPTH: 1.4 m
	REVIEWED BY:	COMPLETE: 08/15/04
	Fig. No: 75	Page 1 of 1

Geotechnical Services Km 1691.7 to 1717.3 Alaska Highway #1 TEST PIT NO: 30092

Donjek Services Ltd. UTM ZONE: - N6769764 E635000 PROJECT NO: 8002-318

CME75 Drill on FN60 Flextrac Nodwell ELEVATION:

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW

REVIEWED BY:

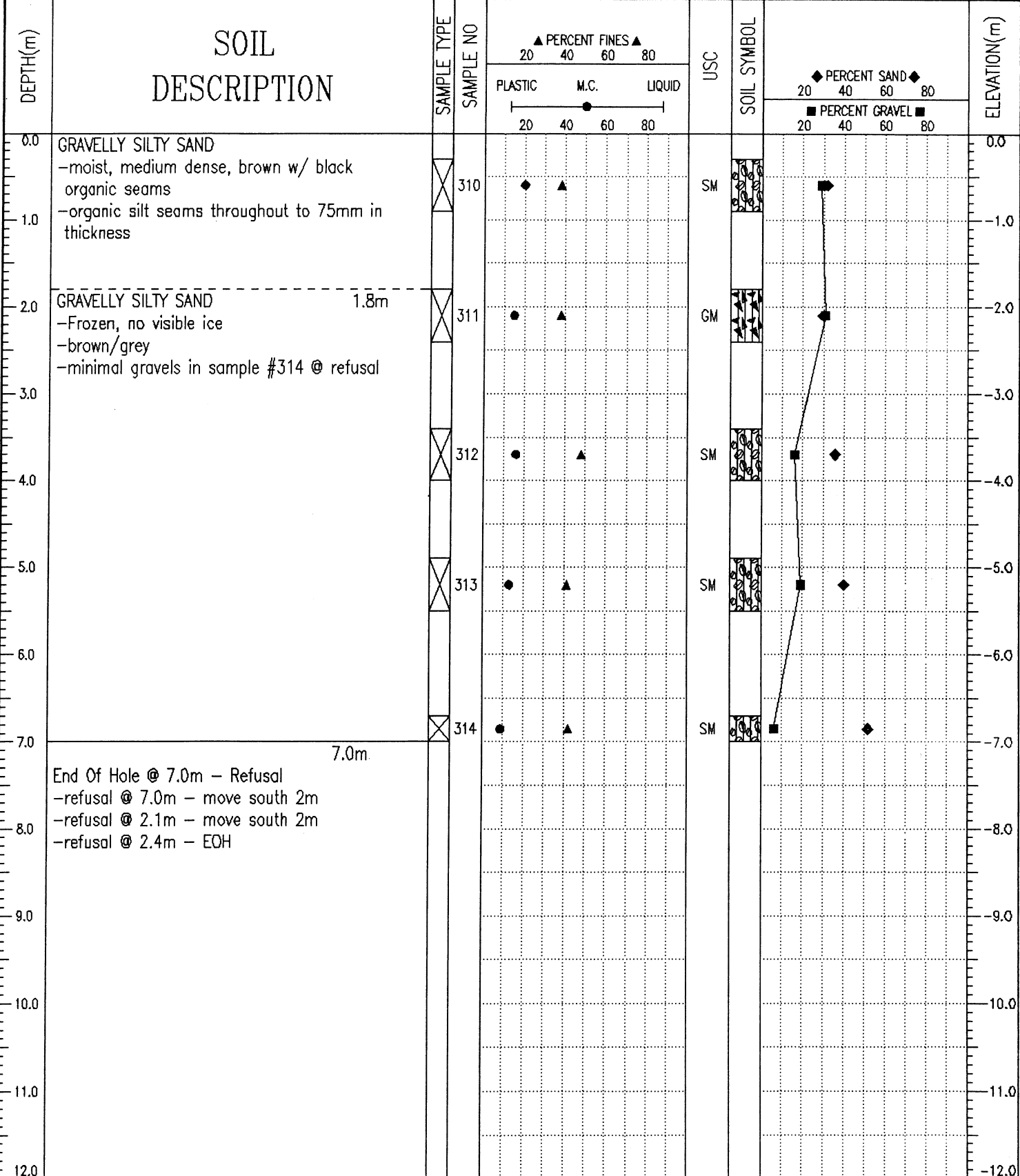
Fig. No: 74

COMPLETION DEPTH: 5 m

COMPLETE: 08/15/04

Page 1 of 1

SAMPLE TYPE    RETURN    S.P.T.    AUGER    BULK    TUBE    CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW	COMPLETION DEPTH: 7 m
REVIEWED BY:	COMPLETE: 08/15/04
Fig. No: 73	Page 1 of 1

SAMPLE TYPE		<input type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK	<input type="checkbox"/> TUBE	<input type="checkbox"/> CORE
-------------	--	---------------------------------	--	---	-------------------------------	-------------------------------	-------------------------------

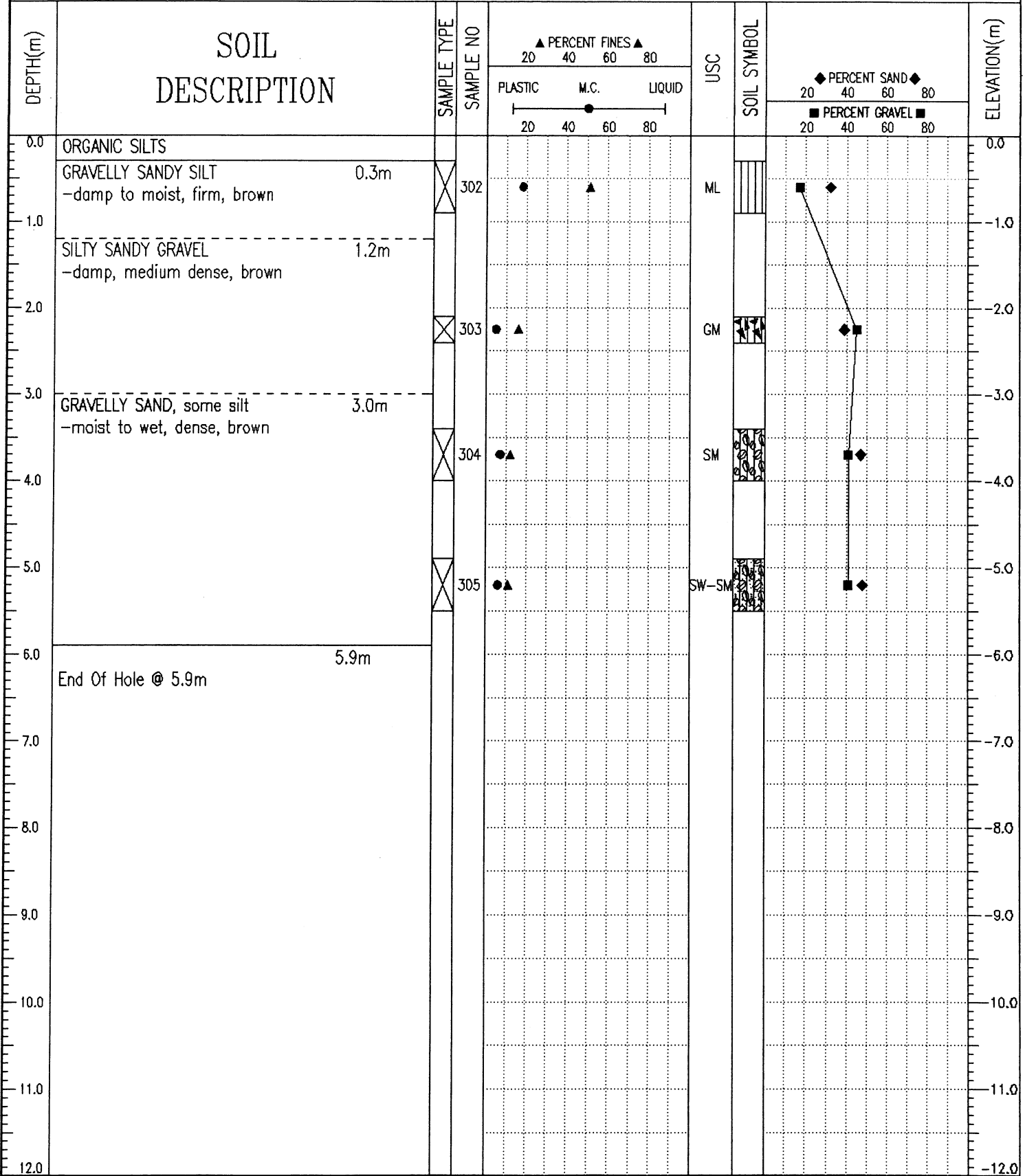
  

DEPTH(m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲			USC	SOIL SYMBOL	◆ PERCENT SAND ◆		ELEVATION(m)
				PLASTIC	M.C.	LIQUID			20	40	
0.0	DRILL PAD FILL										0.0
0.0 - 0.4	ORGANIC SILTS										
0.4 - 0.8	SANDY GRAVEL, some silt -damp, medium dense, brown		306	●	▲		GM		◆	■	-1.0
0.8 - 1.8	SILTY SANDY GRAVEL -damp, medium dense, brown w/ black organic seams -some organic silts throughout (seams to 75mm)		307	●	▲		GM		◆	■	-2.0
1.8 - 3.0	GRAVELLY SILTY SAND -damp to moist, dense, brown		308	●	▲		SM		◆	■	-4.0
3.0 - 5.2	AS ABOVE -increase moisture/increase silt		309	●	▲		SM		◆	■	-5.8
5.2 - 5.8	End Of Hole @ 5.8m										

J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

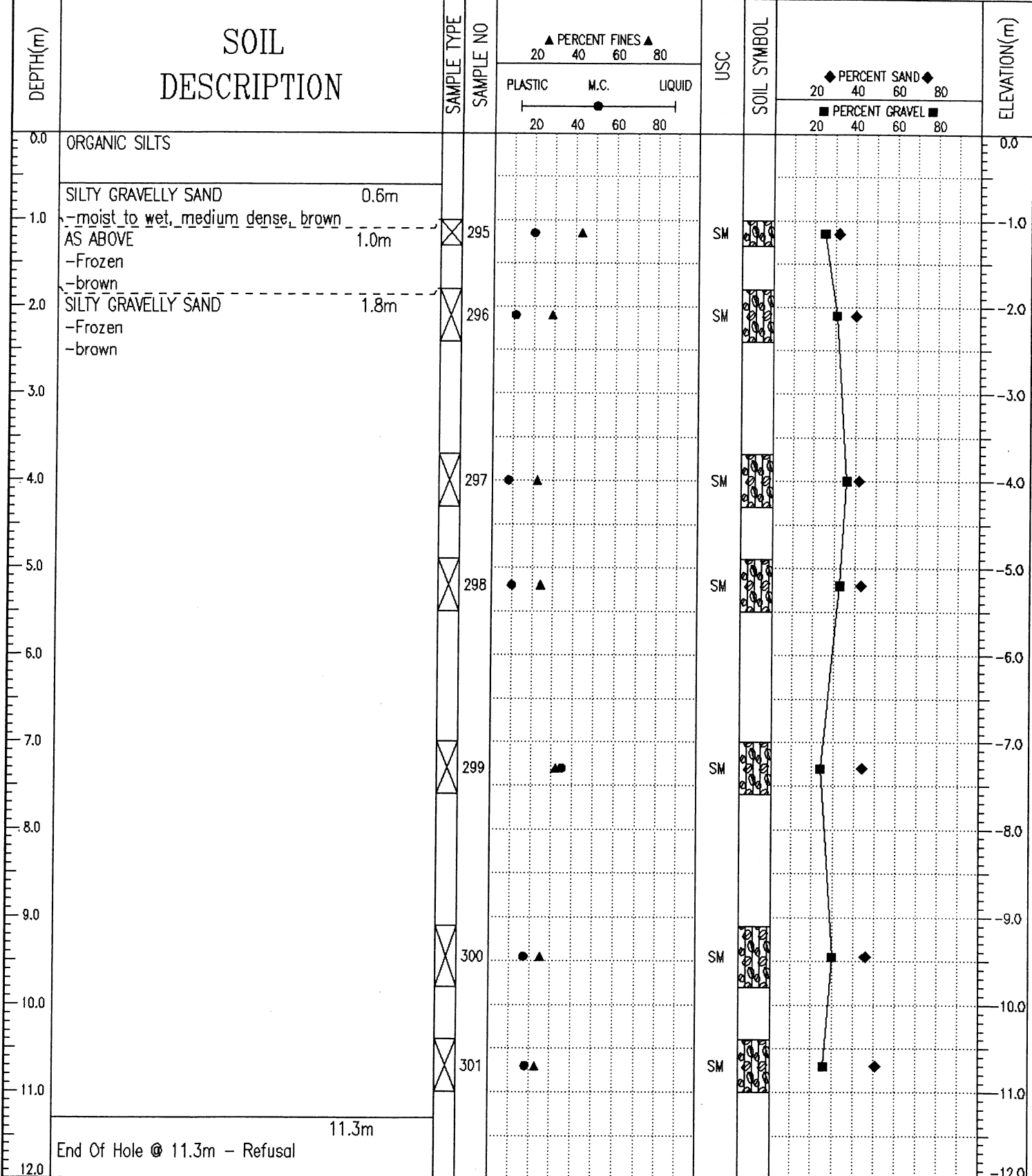
LOGGED BY: RW	COMPLETION DEPTH: 5.8 m
REVIEWED BY:	COMPLETE: 08/15/04
Fig. No: 72	Page 1 of 1

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



<b>J. R. Paine &amp; Associates Ltd.</b> Whitehorse, Yukon	LOGGED BY: RW REVIEWED BY: Fig. No: 71	COMPLETION DEPTH: 5.9 m COMPLETE: 08/15/04
---	--	---

SAMPLE TYPE    RETURN    S.P.T.    AUGER    BULK    TUBE    CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

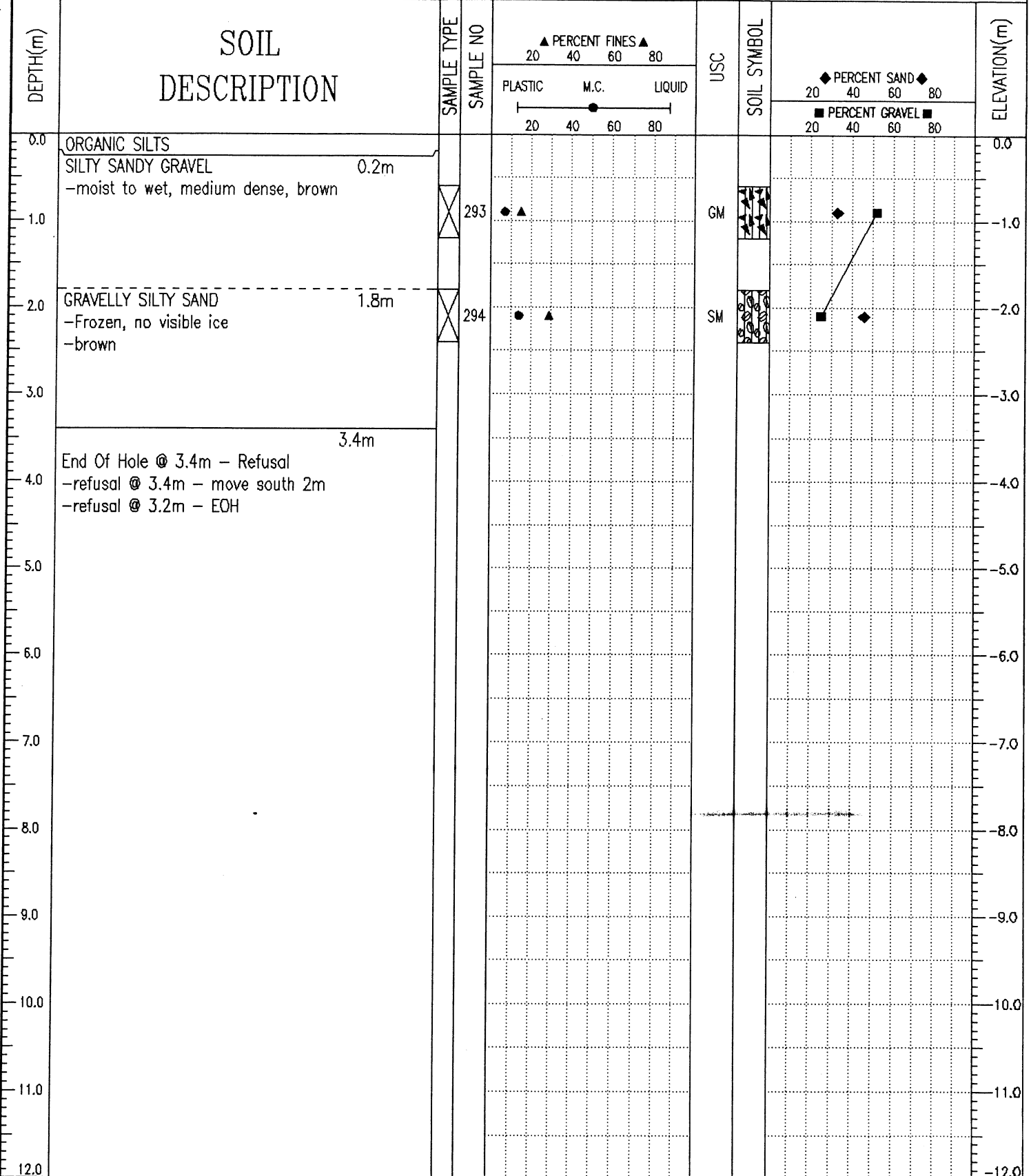
LOGGED BY: RW	COMPLETION DEPTH: 11.3 m
REVIEWED BY:	COMPLETE: 08/14/04
Fig. No: 70	Page 1 of 1

Geotechnical Services Km 1691.7 to 1717.3 Alaska Highway #1 TEST PIT NO: 30097

Donjek Services Ltd. UTM ZONE: - N6770135 E634800 PROJECT NO: 8002-318

CME75 Drill on FN60 Flextrac Nodwell ELEVATION:

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW

REVIEWED BY:

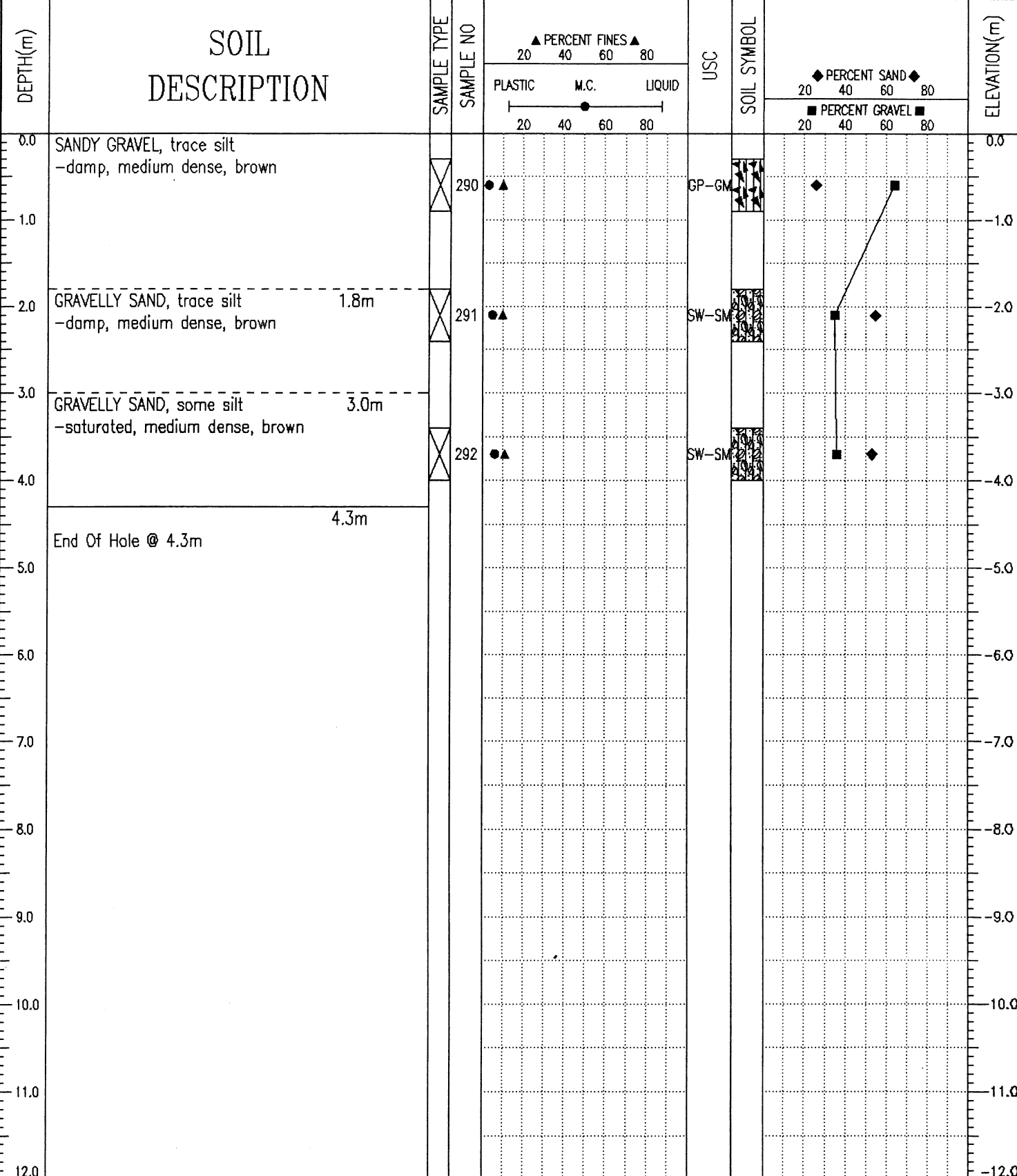
Fig. No: 69

COMPLETION DEPTH: 3.4 m

COMPLETE: 08/14/04

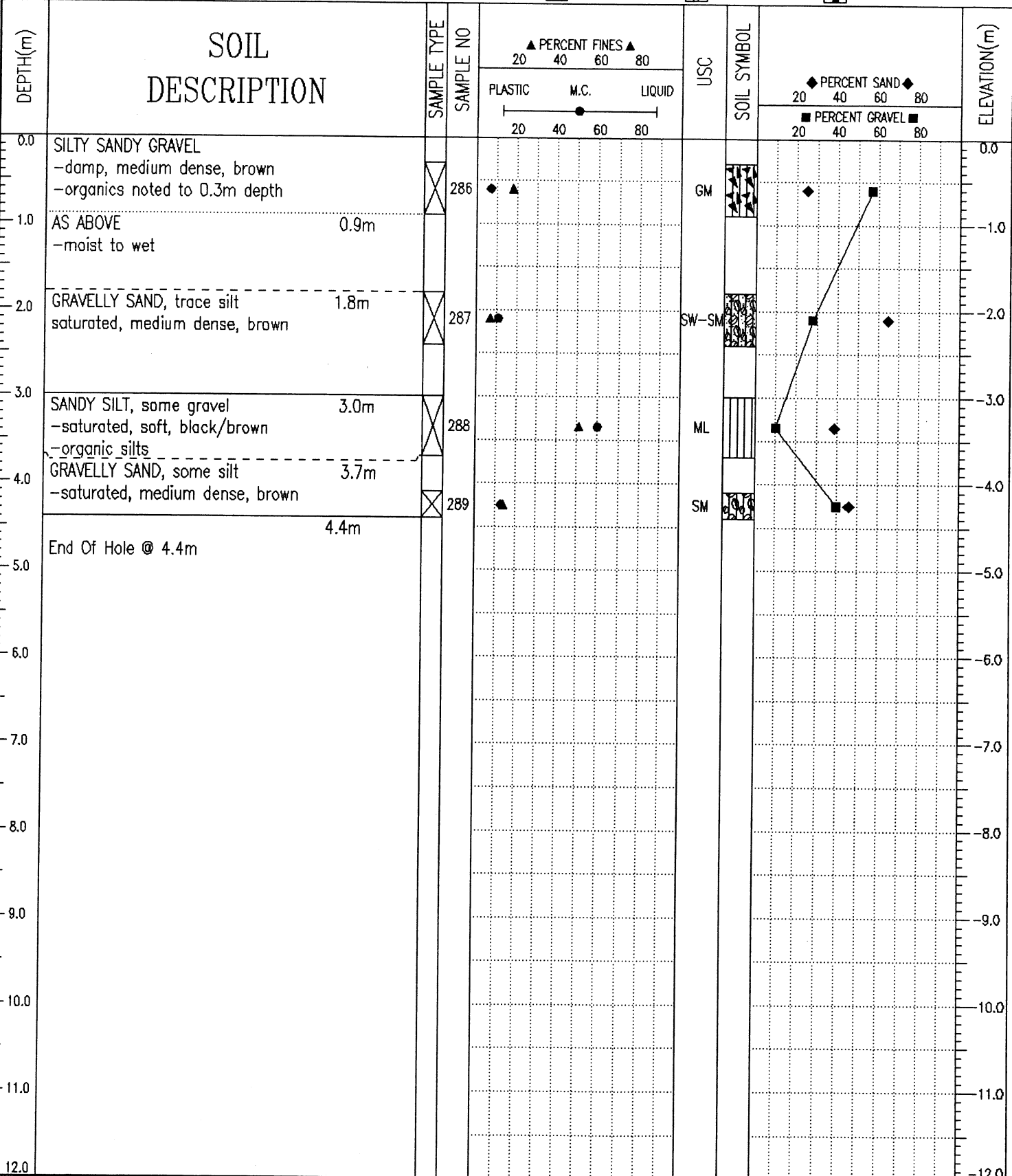
Page 1 of 1

SAMPLE TYPE    RETURN    S.P.T.    AUGER    BULK    TUBE    CORE



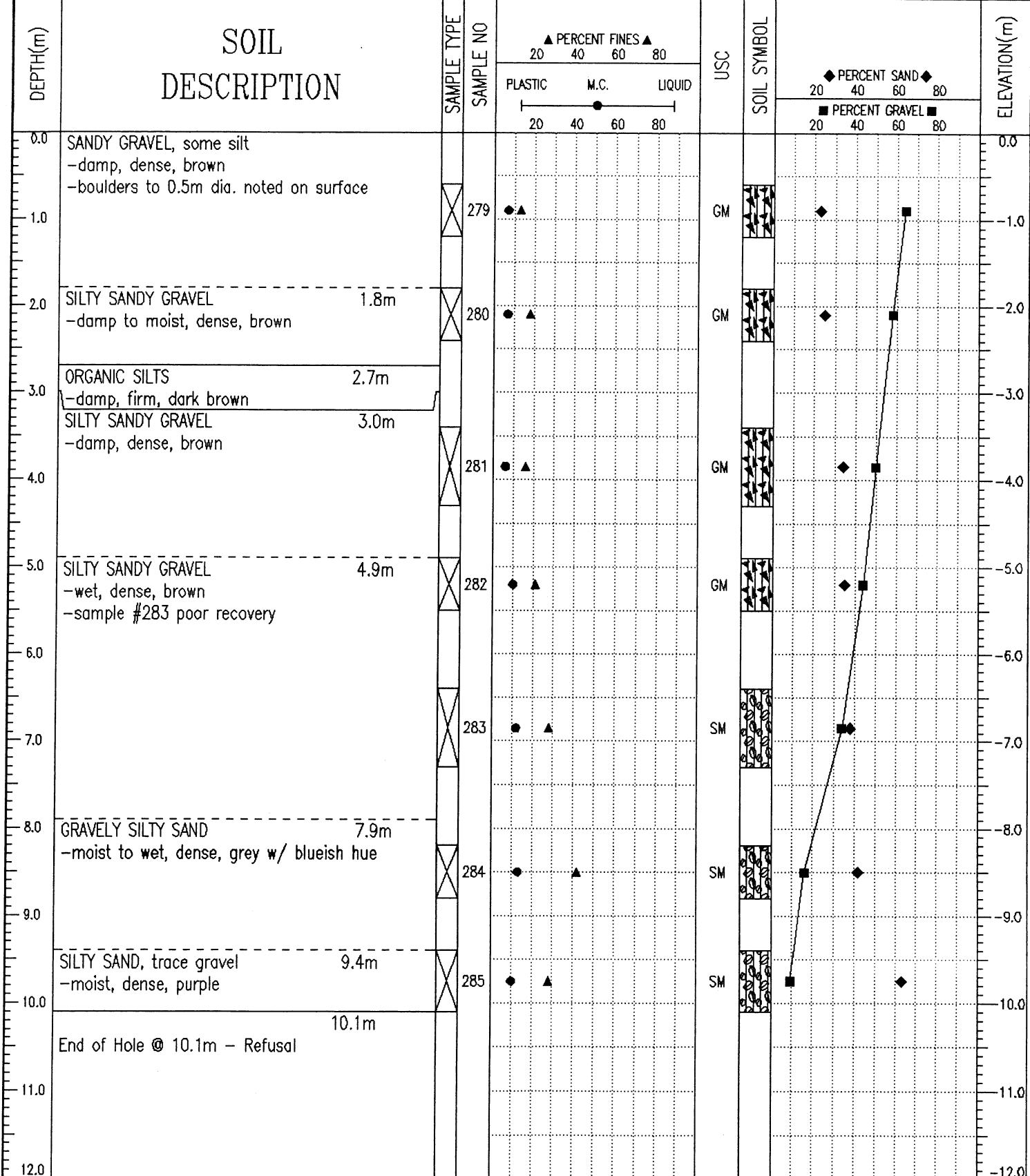
05/02/10 07:51AM (YIG\_HHW/S)

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



05/02/10 07:31AM (YIG\_HMYS)

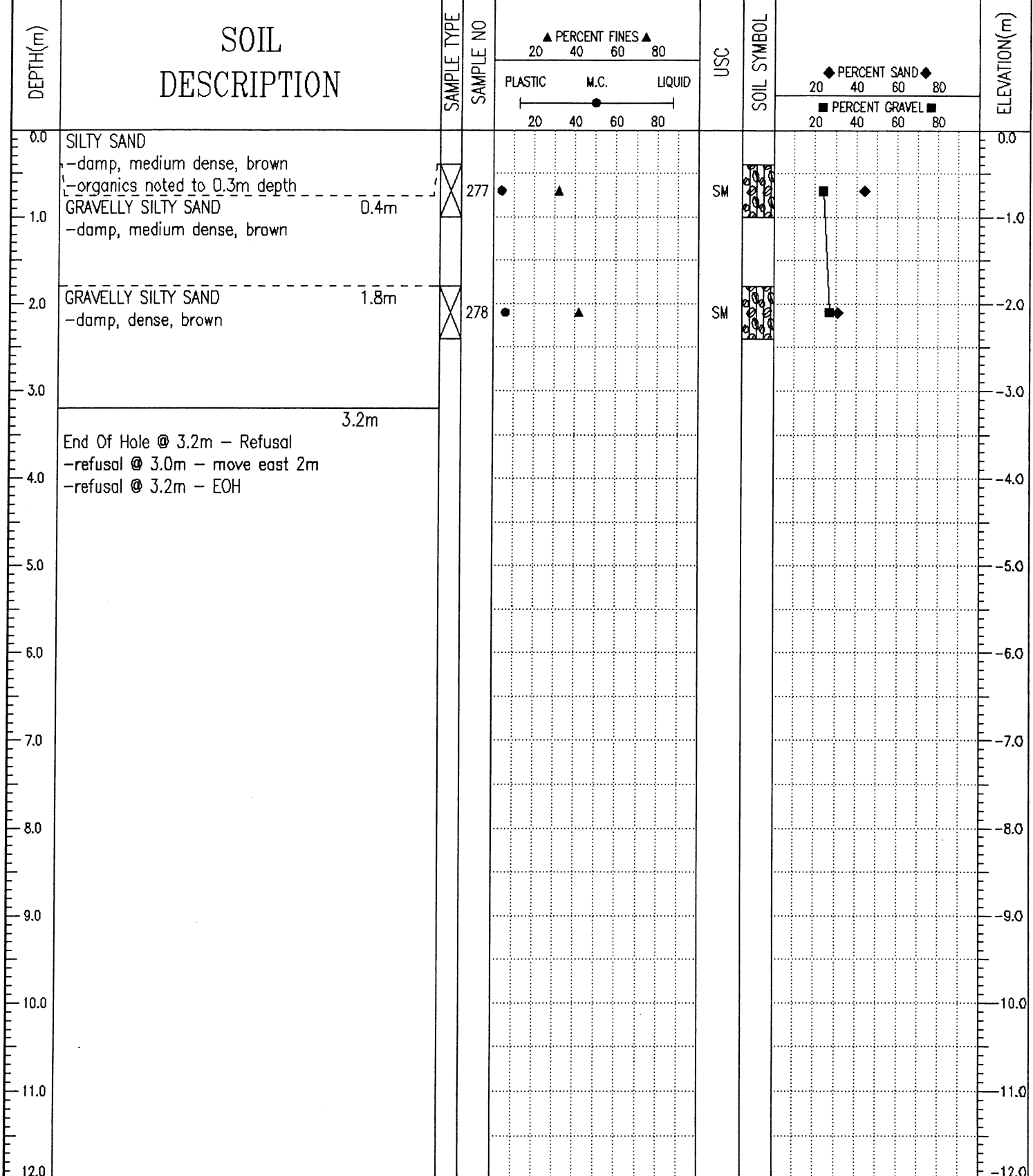
SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

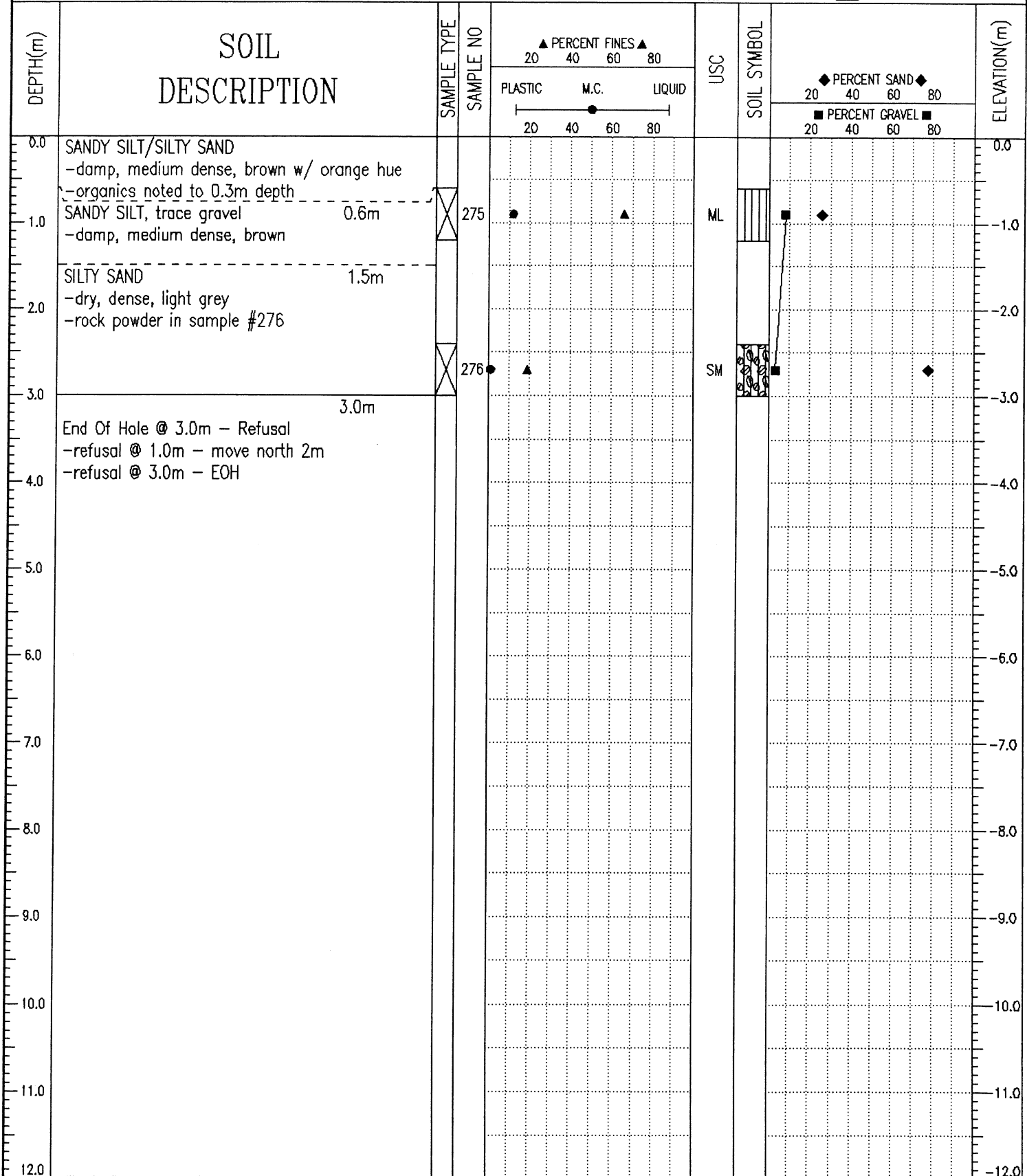
LOGGED BY: RW	COMPLETION DEPTH: 10.1 m
REVIEWED BY:	COMPLETE: 08/14/04
Fig. No: 66	Page 1 of 1

SAMPLE TYPE    RETURN    S.P.T.    AUGER    BULK    TUBE    CORE



05/02/10 07:32AM (YIG\_HHWS)

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



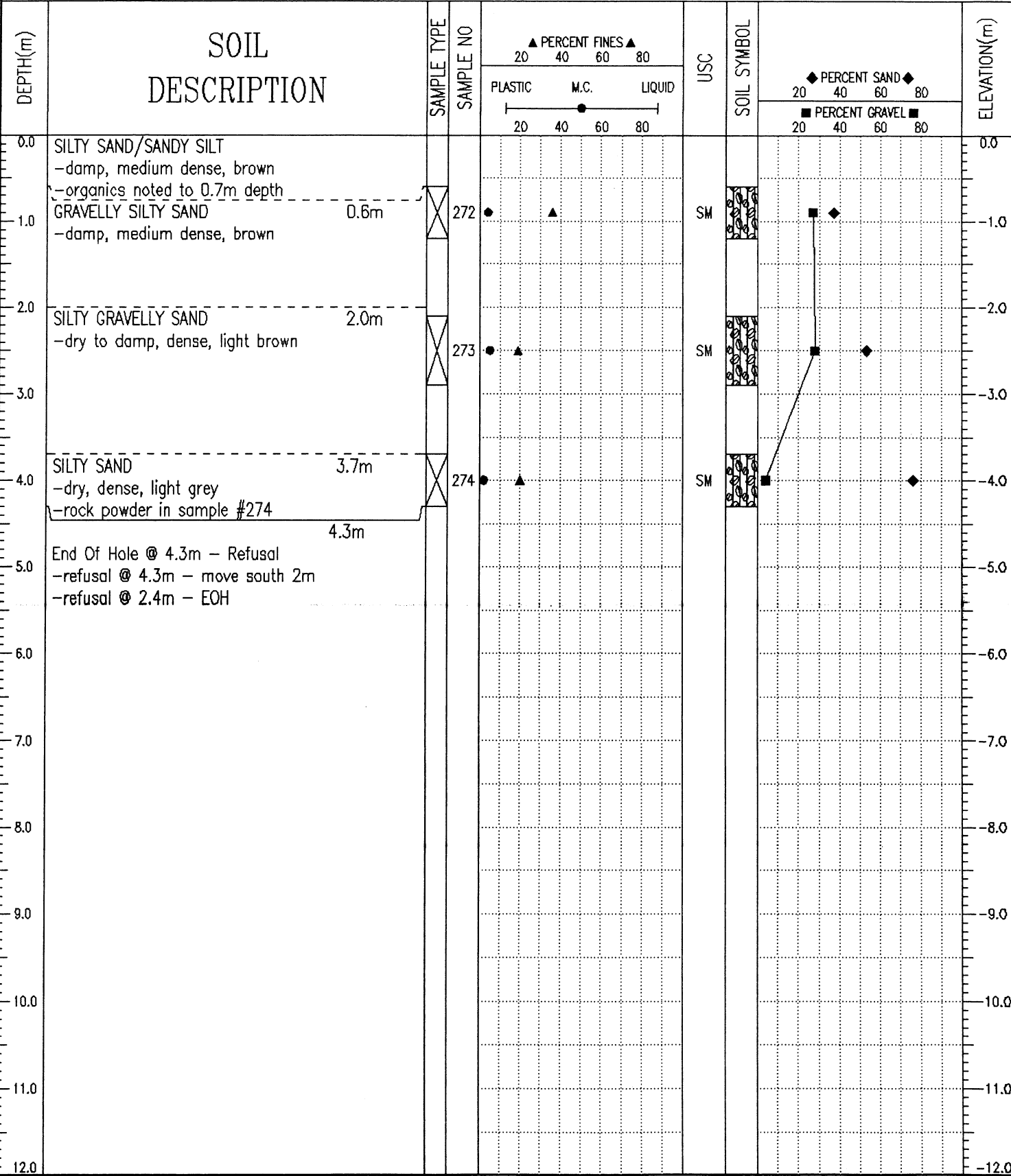
<b>J. R. Paine &amp; Associates Ltd.</b> Whitehorse, Yukon	LOGGED BY: RW	COMPLETION DEPTH: 3 m
	REVIEWED BY:	COMPLETE: 08/14/04
	Fig. No: 64	Page 1 of 1

Geotechnical Services Km 1691.7 to 1717.3 Alaska Highway #1 TEST PIT NO: 30103

Donjek Services Ltd. UTM ZONE: - N6770855 E634651 PROJECT NO: 8002-318

CME75 Drill on FN60 Flextrac Nadwell ELEVATION:

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

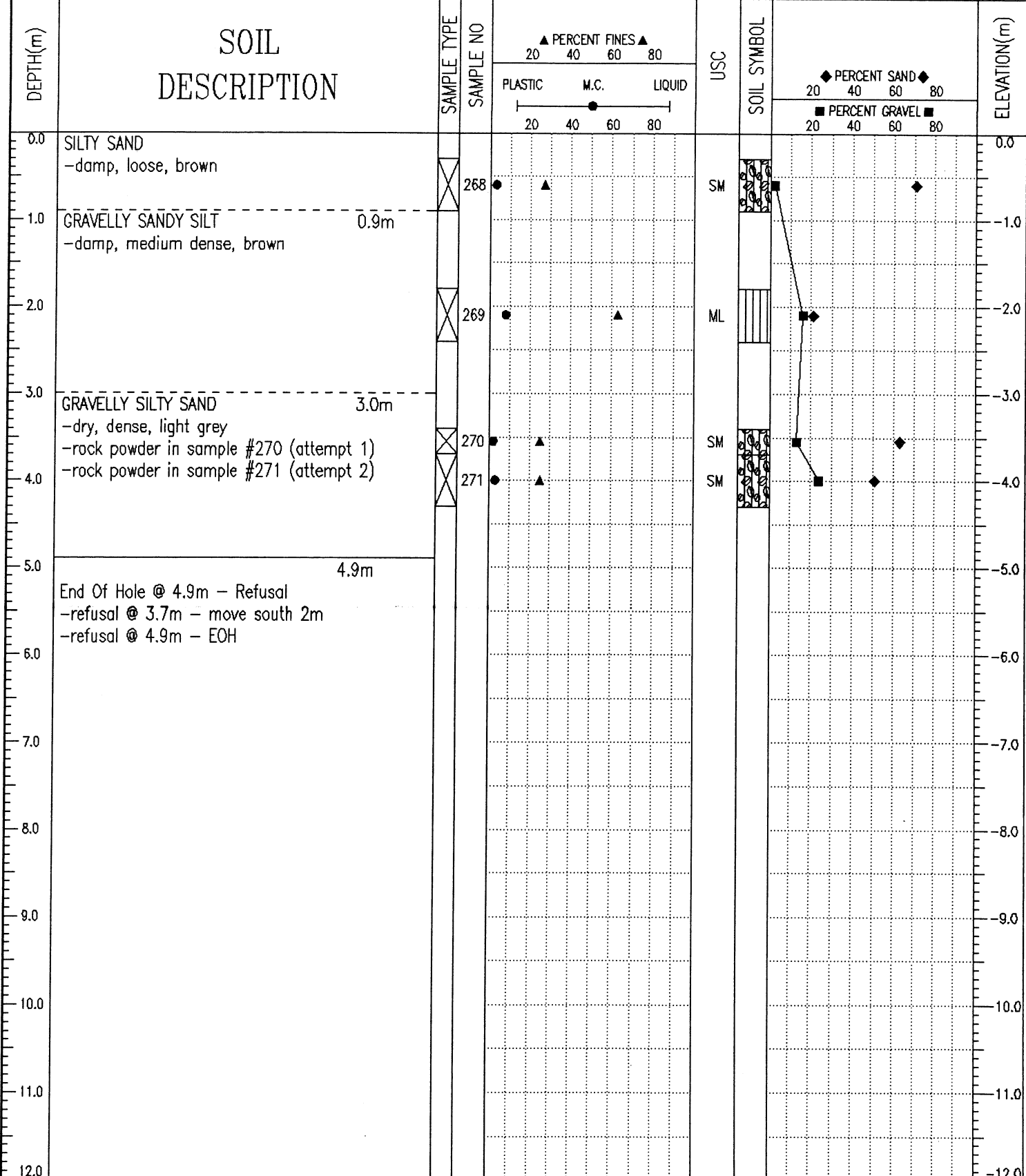


J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW  
REVIEWED BY:  
Fig. No: 63

COMPLETION DEPTH: 4.3 m  
COMPLETE: 08/14/04  
Page 1 of 1

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

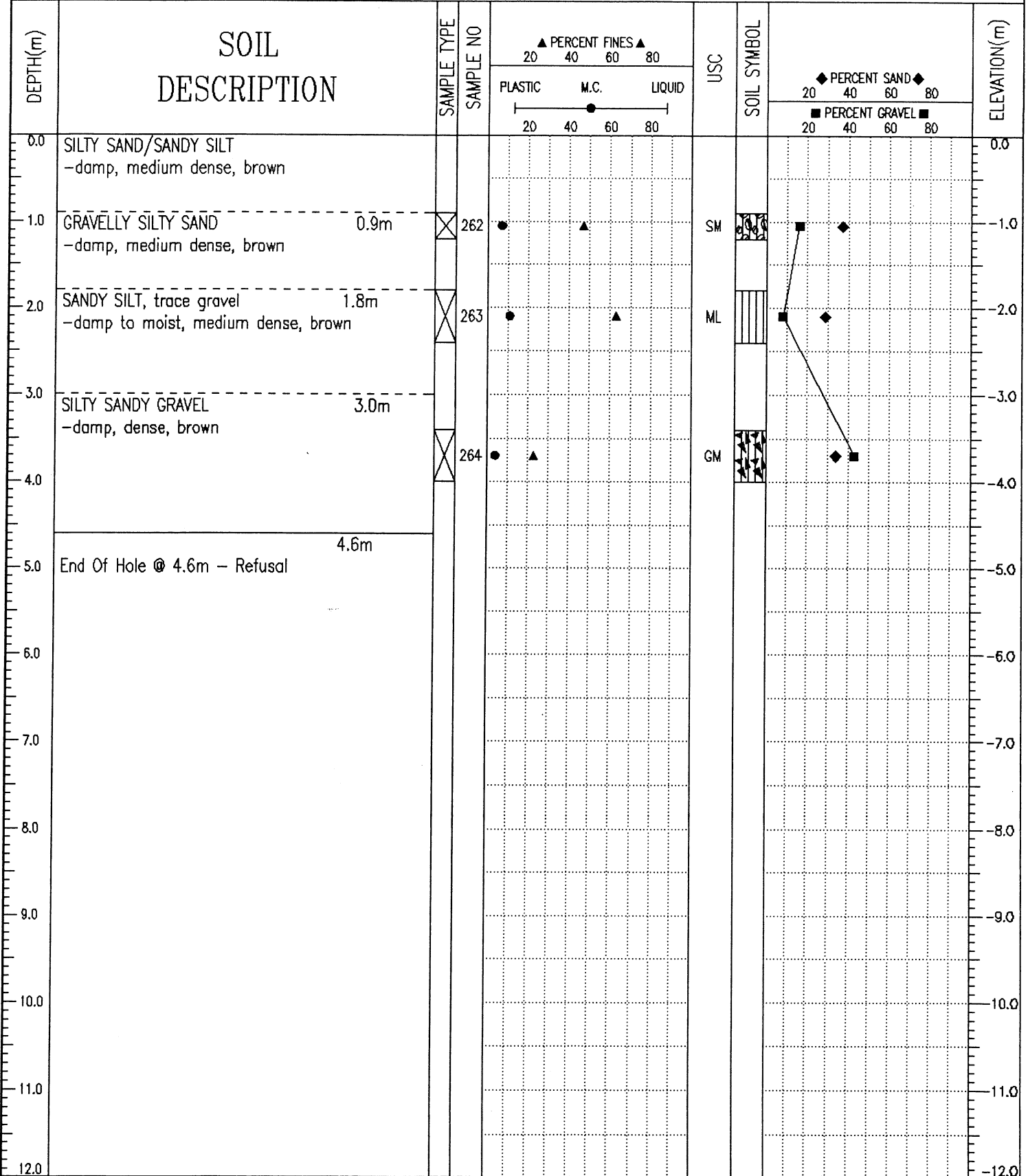
LOGGED BY: RW	COMPLETION DEPTH: 4.9 m
REVIEWED BY:	COMPLETE: 08/13/04
Fig. No: 62	Page 1 of 1

Geotechnical Services Km 1691.7 to 1717.3 Alaska Highway #1 TEST PIT NO: 30105

Donjek Services Ltd. UTM ZONE: - N6771005 E604672 PROJECT NO: 8002-318

CME75 Drill on FN60 Flextrac Nodwell ELEVATION:

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW

REVIEWED BY:

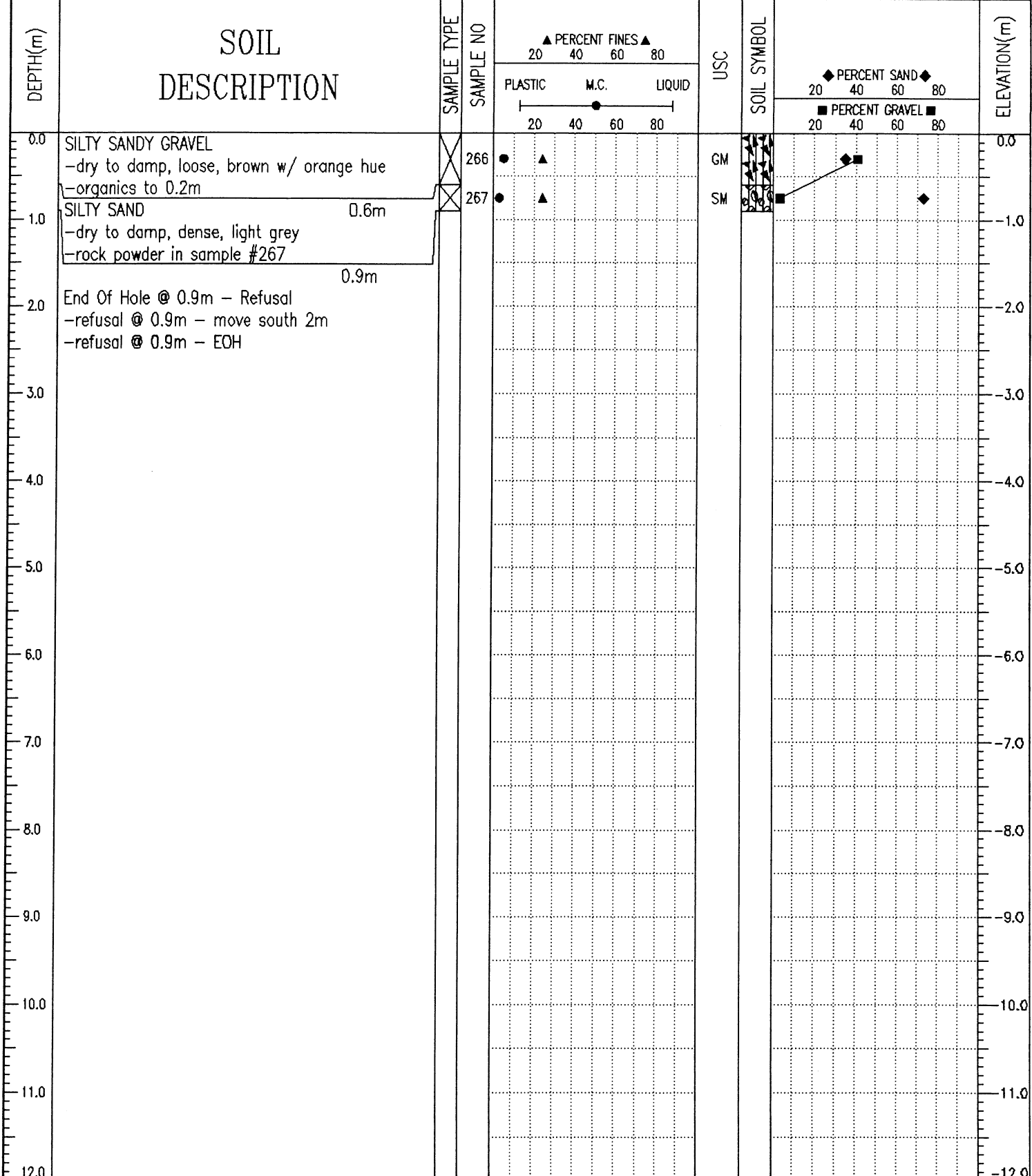
Fig. No: 61

COMPLETION DEPTH: 4.6 m

COMPLETE: 08/13/04

Page 1 of 1

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

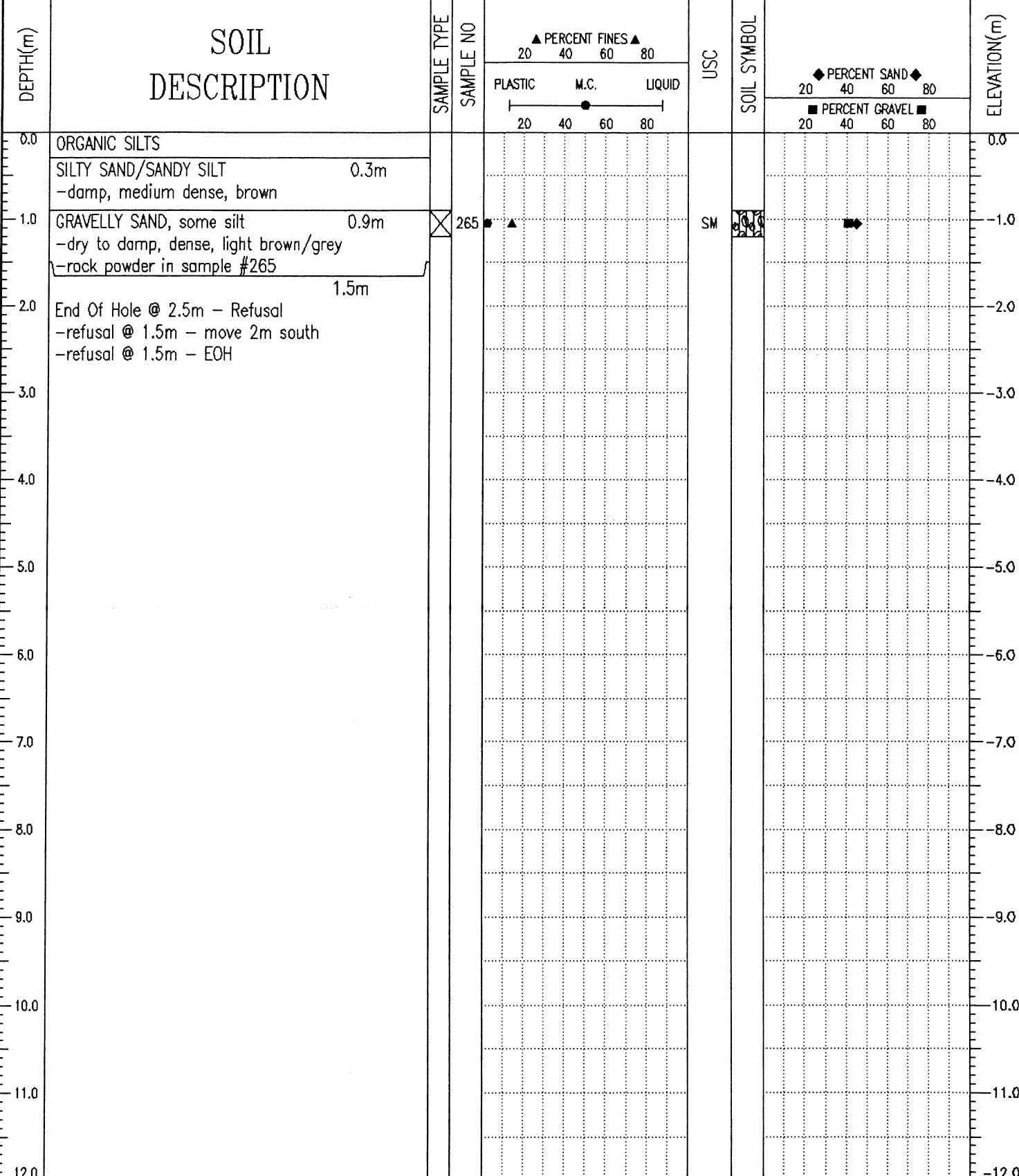


Geotechnical Services Km 1691.7 to 1717.3 Alaska Highway #1 TEST PIT NO: 30107

Donjek Services Ltd. UTM ZONE: - N6771149 E634529 PROJECT NO: 8002-318

CME75 Drill on FN60 Flextrac Nodwell ELEVATION:

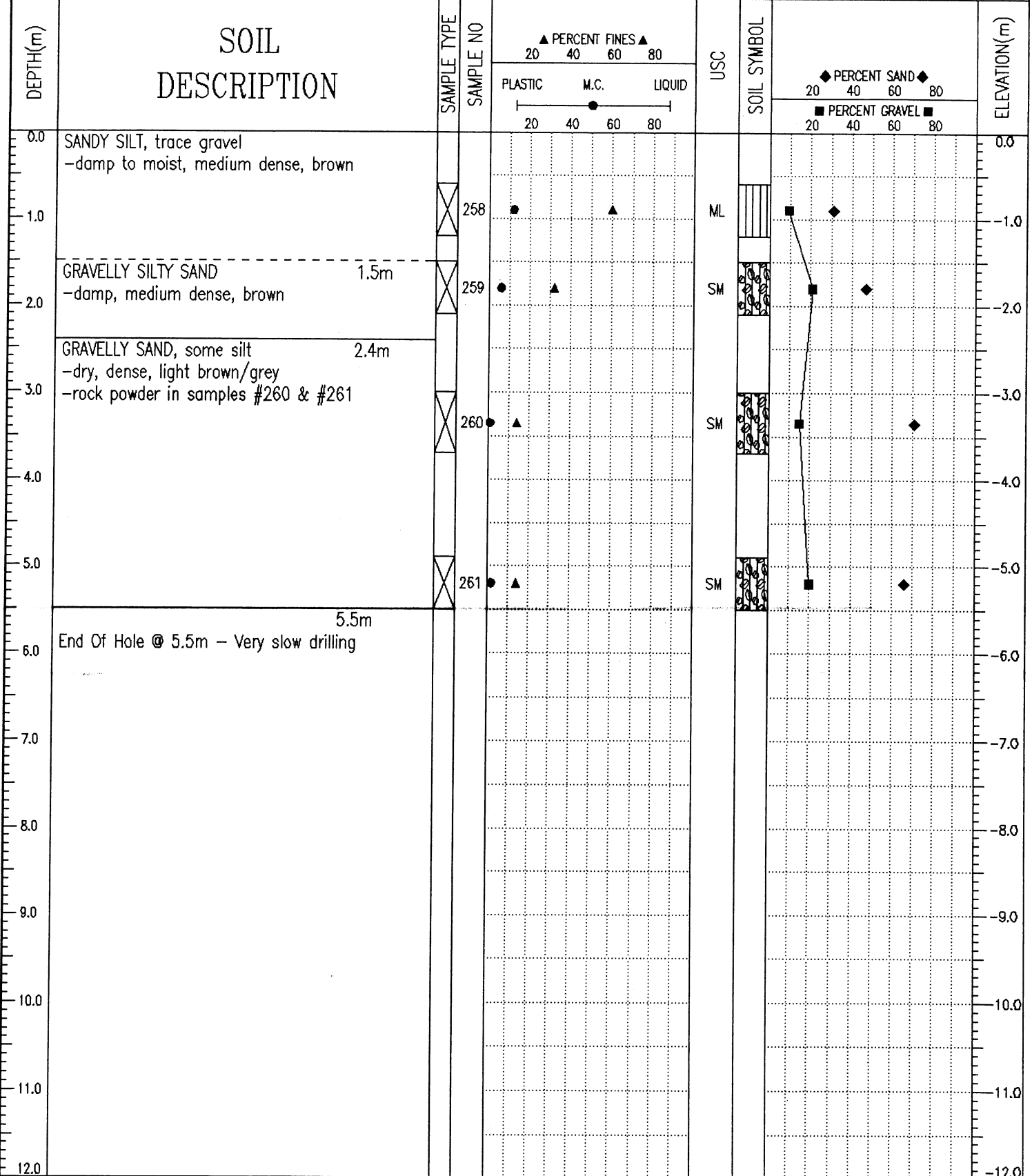
SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW  
REVIEWED BY:  
Fig. No: 59  
COMPLETION DEPTH: 1.5 m  
COMPLETE: 08/13/04  
Page 1 of 1

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

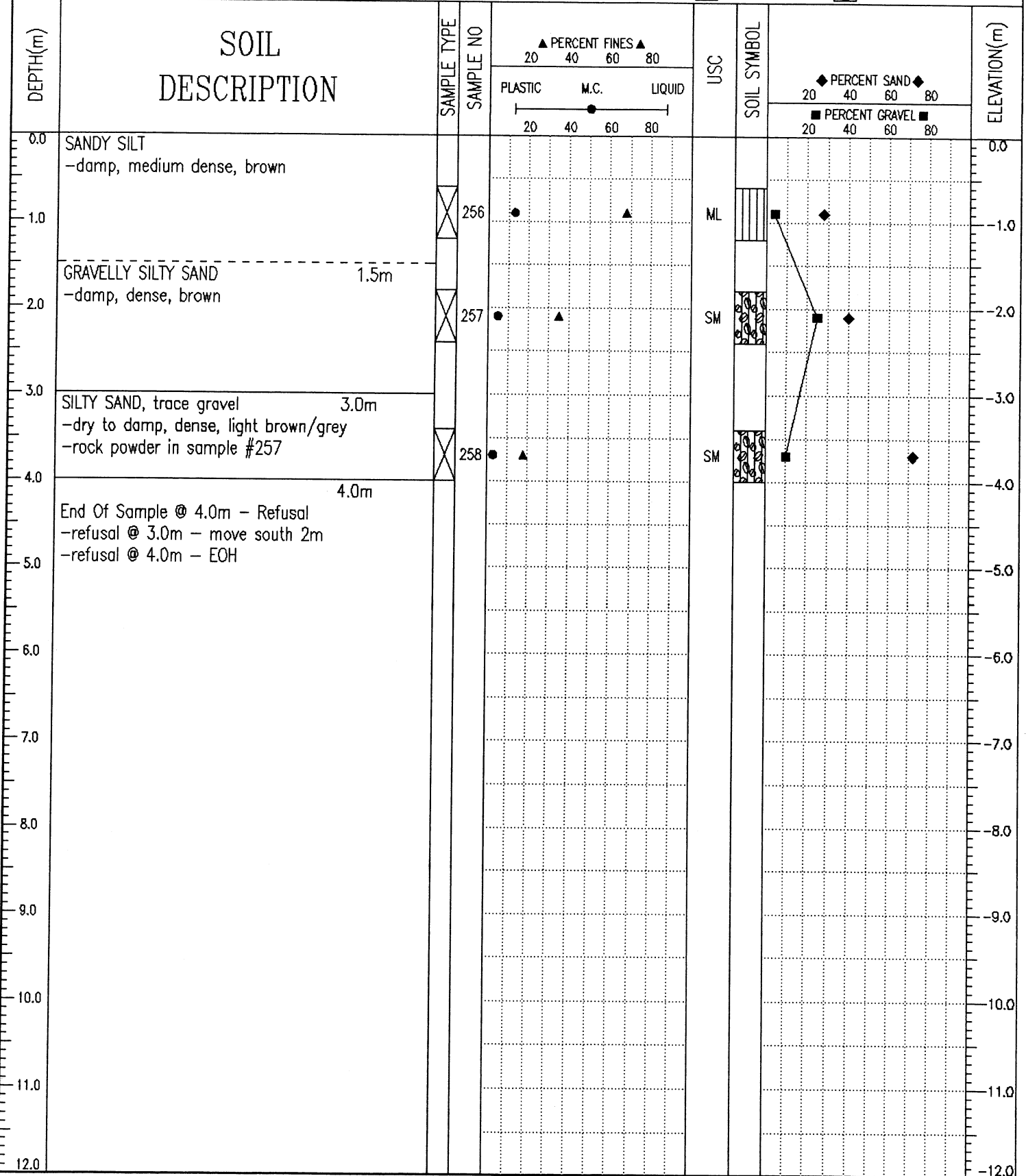


J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW  
REVIEWED BY:  
Fig. No: 58

COMPLETION DEPTH: 5.5 m  
COMPLETE: 08/13/04

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

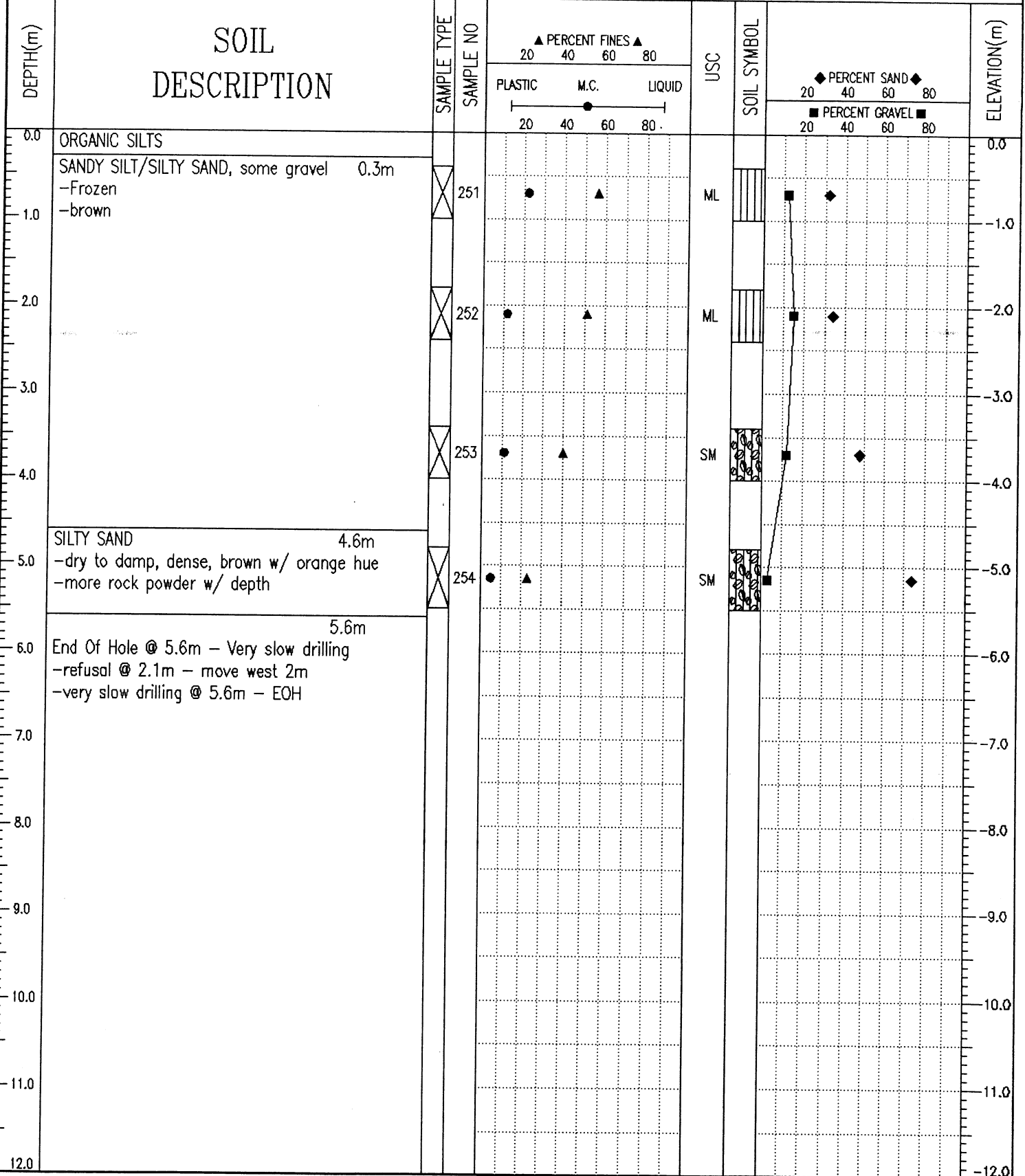


J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW	COMPLETION DEPTH: 4 m
REVIEWED BY:	COMPLETE: 08/13/04
Fig. No: 57	Page 1 of 1

Geotechnical Services	Km 1691.7 to 1717.3 Alaska Highway #1	TEST PIT NO: 30110
Donjek Services Ltd.	UTM ZONE: - N6771567 E634457	PROJECT NO: 8002-318
CME75 Drill on FN60 Flextrac Nodwell		ELEVATION:

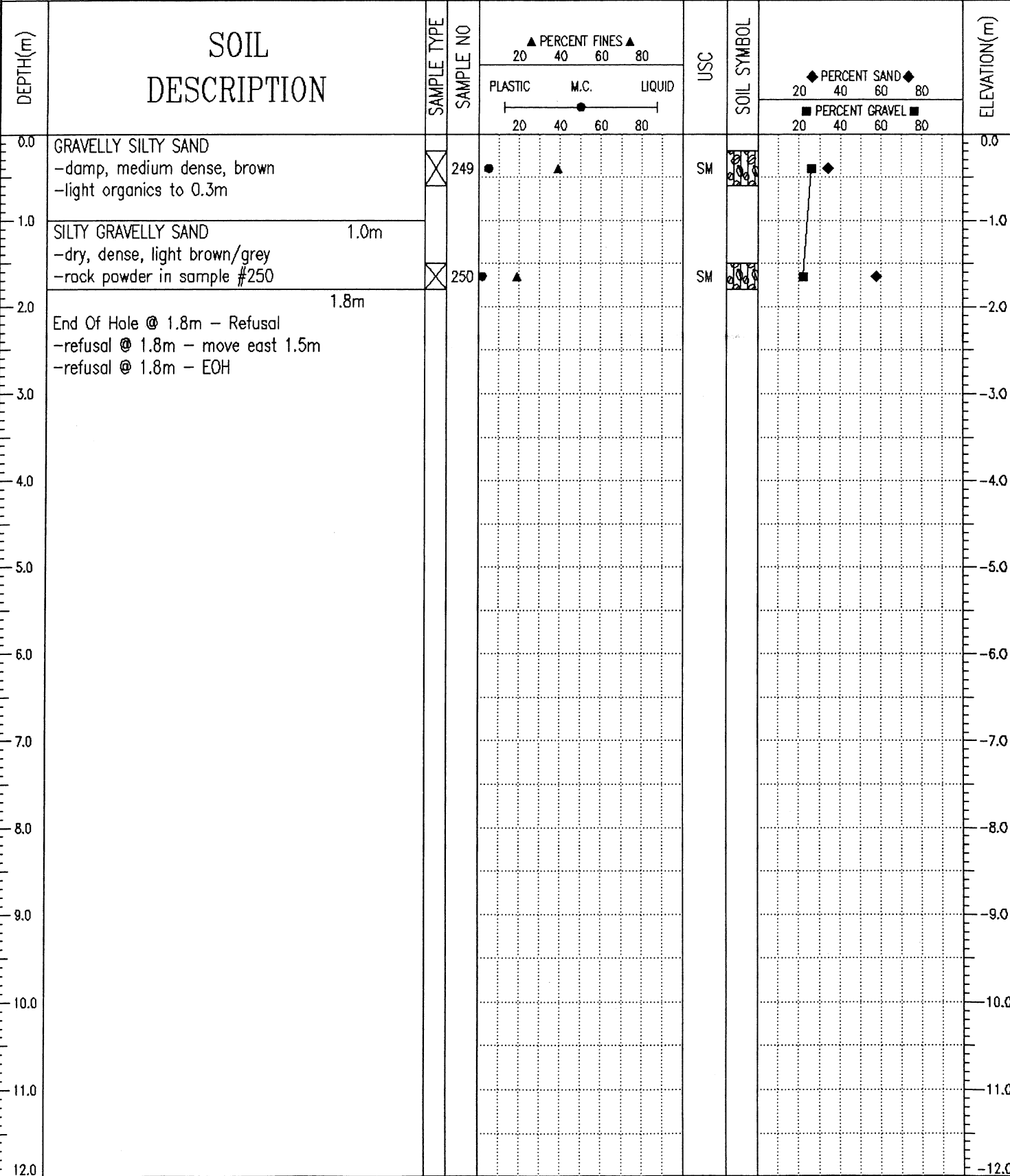
SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

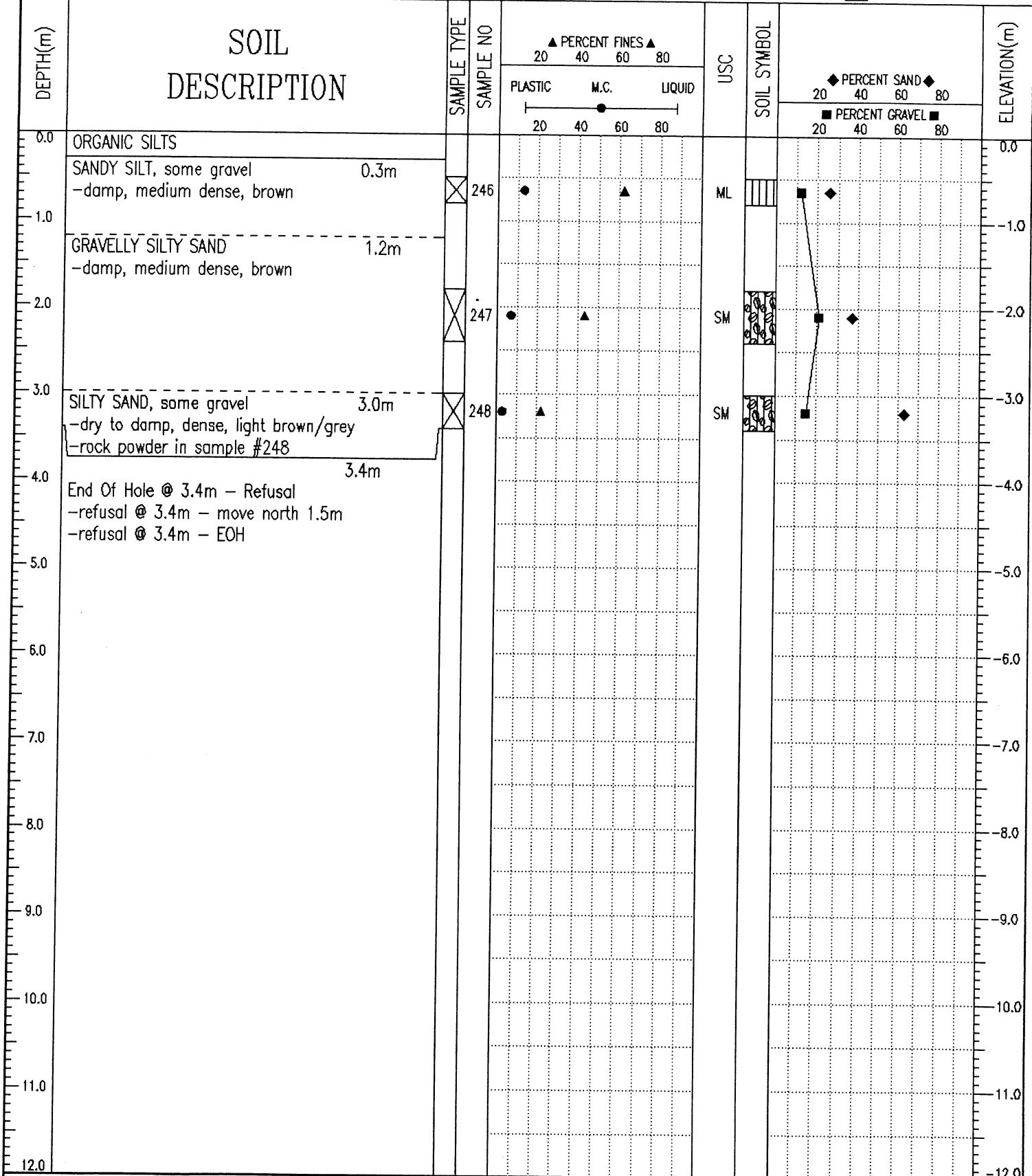
LOGGED BY: RW	COMPLETION DEPTH: 5.6 m
REVIEWED BY:	COMPLETE: 08/13/04
Fig. No: 56	Page 1 of 1

SAMPLE TYPE    RETURN    S.P.T.    AUGER    BULK    TUBE    CORE



<b>J. R. Paine &amp; Associates Ltd.</b> Whitehorse, Yukon	LOGGED BY: RW	COMPLETION DEPTH: 1.8 m
	REVIEWED BY:	COMPLETE: 08/13/04
	Fig. No: 55	Page 1 of 1

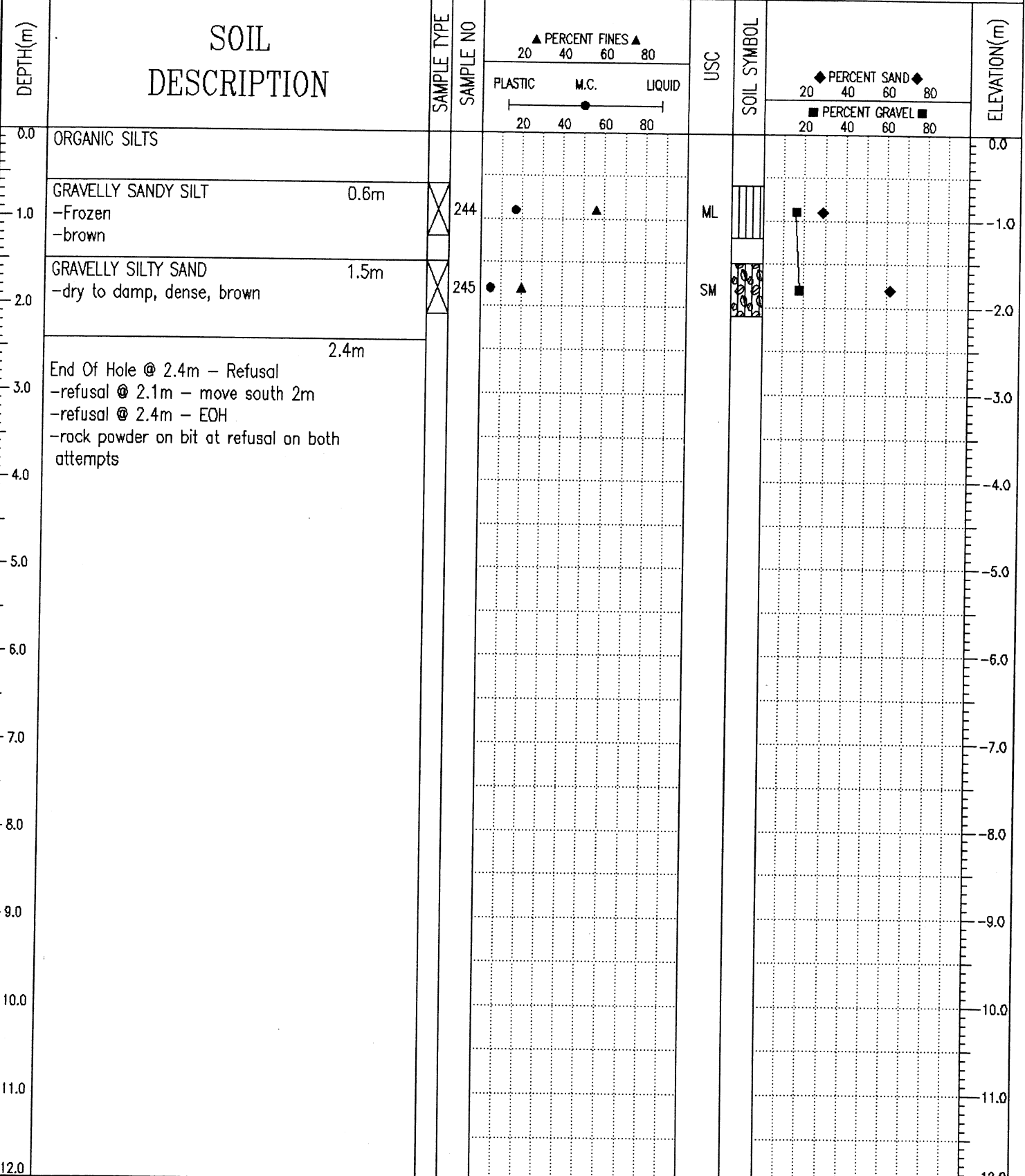
SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW	COMPLETION DEPTH: 3.4 m
REVIEWED BY:	COMPLETE: 08/13/04
Fig. No: 54	Page 1 of 1

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW	COMPLETION DEPTH: 2.4 m
REVIEWED BY:	COMPLETE: 08/12/04
Fig. No: 53	Page 1 of 1

Geotechnical Services

Km 1691.7 to 1717.3 Alaska Highway #1

TEST PIT NO: 30114

Donjek Services Ltd.

UTM ZONE: - N6772019 E634386

PROJECT NO: 8002-318

CME75 Drill on FN60 Flextrac Nodwell

ELEVATION:

SAMPLE TYPE  RETURN

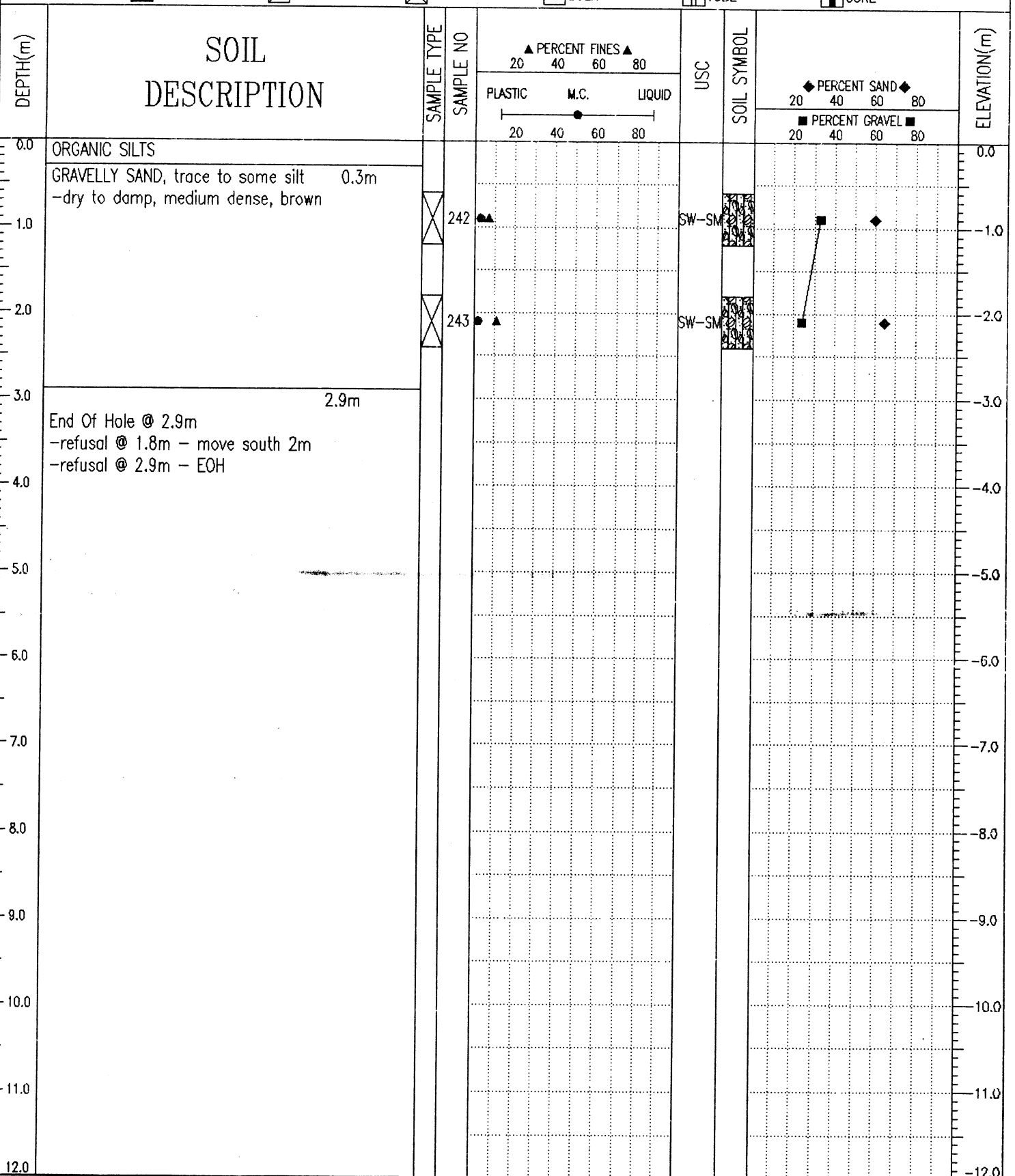
S.P.T.

AUGER

BULK

TUBE

CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW

REVIEWED BY:

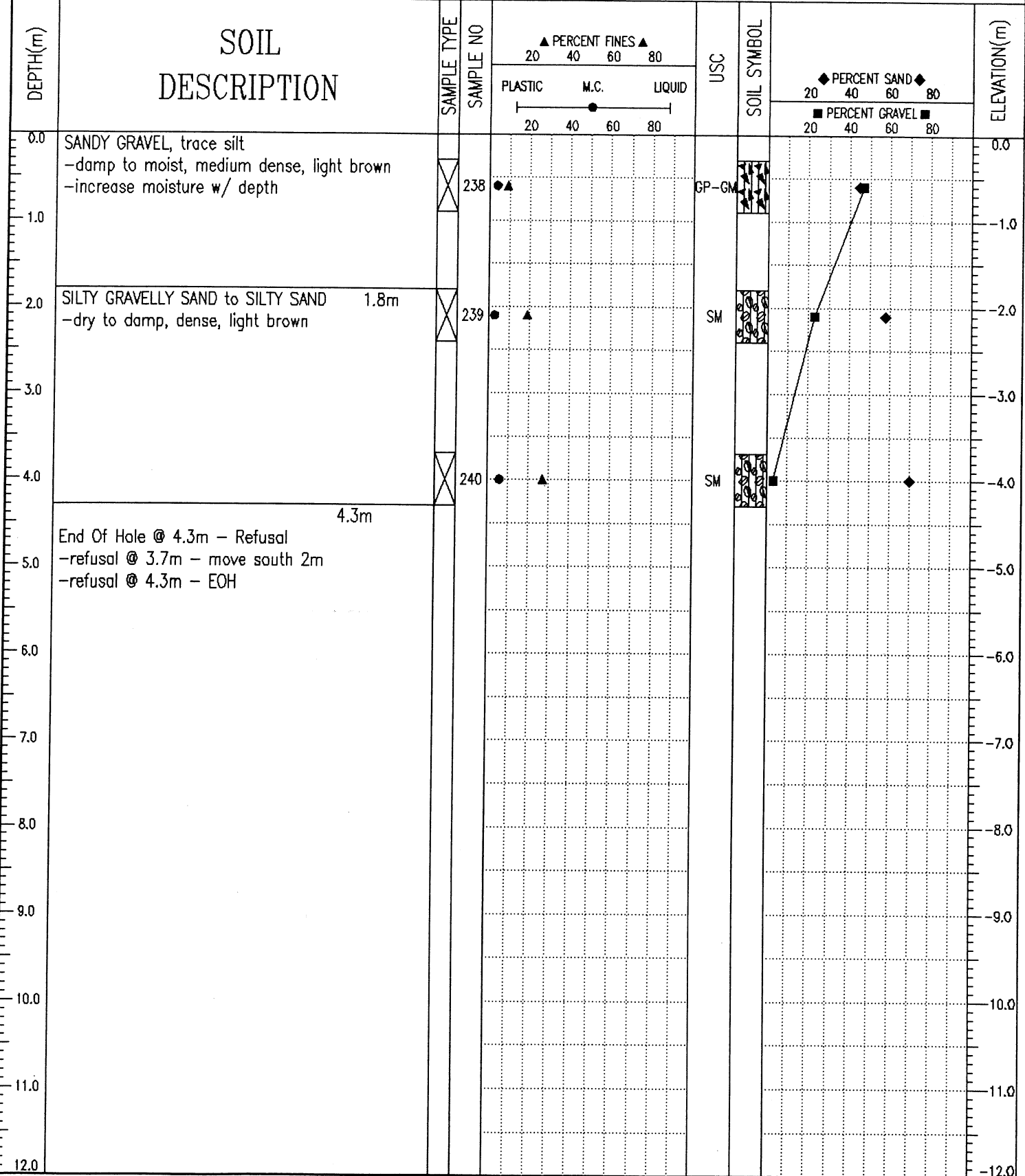
Fig. No: 52

COMPLETION DEPTH: 2.9 m

COMPLETE: 08/12/04

Page 1 of 1

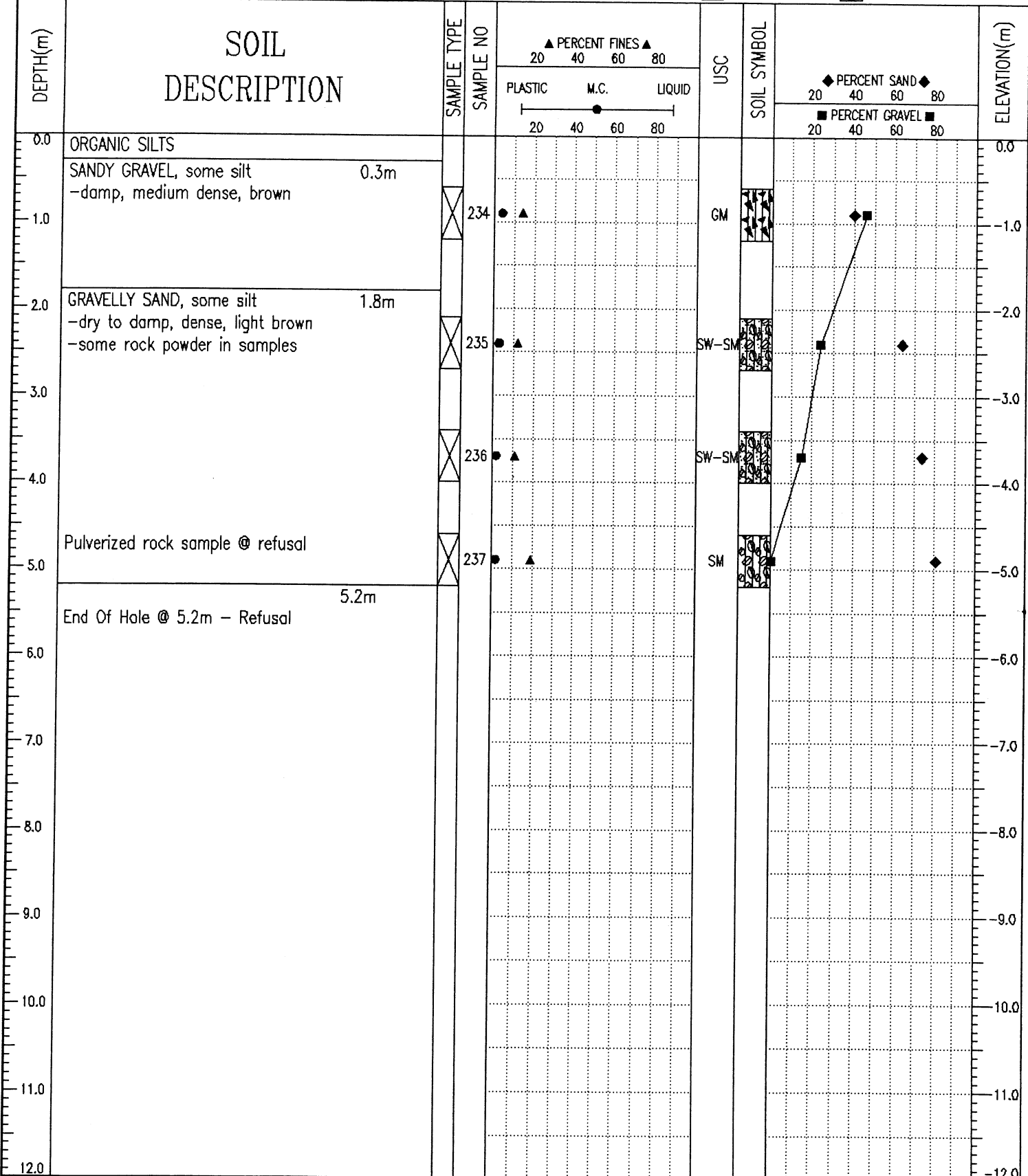
SAMPLE TYPE    RETURN    S.P.T.    AUGER    BULK    TUBE    CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW	COMPLETION DEPTH: 4.3 m
REVIEWED BY:	COMPLETE: 08/12/04
Fig. No: 51	Page 1 of 1

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



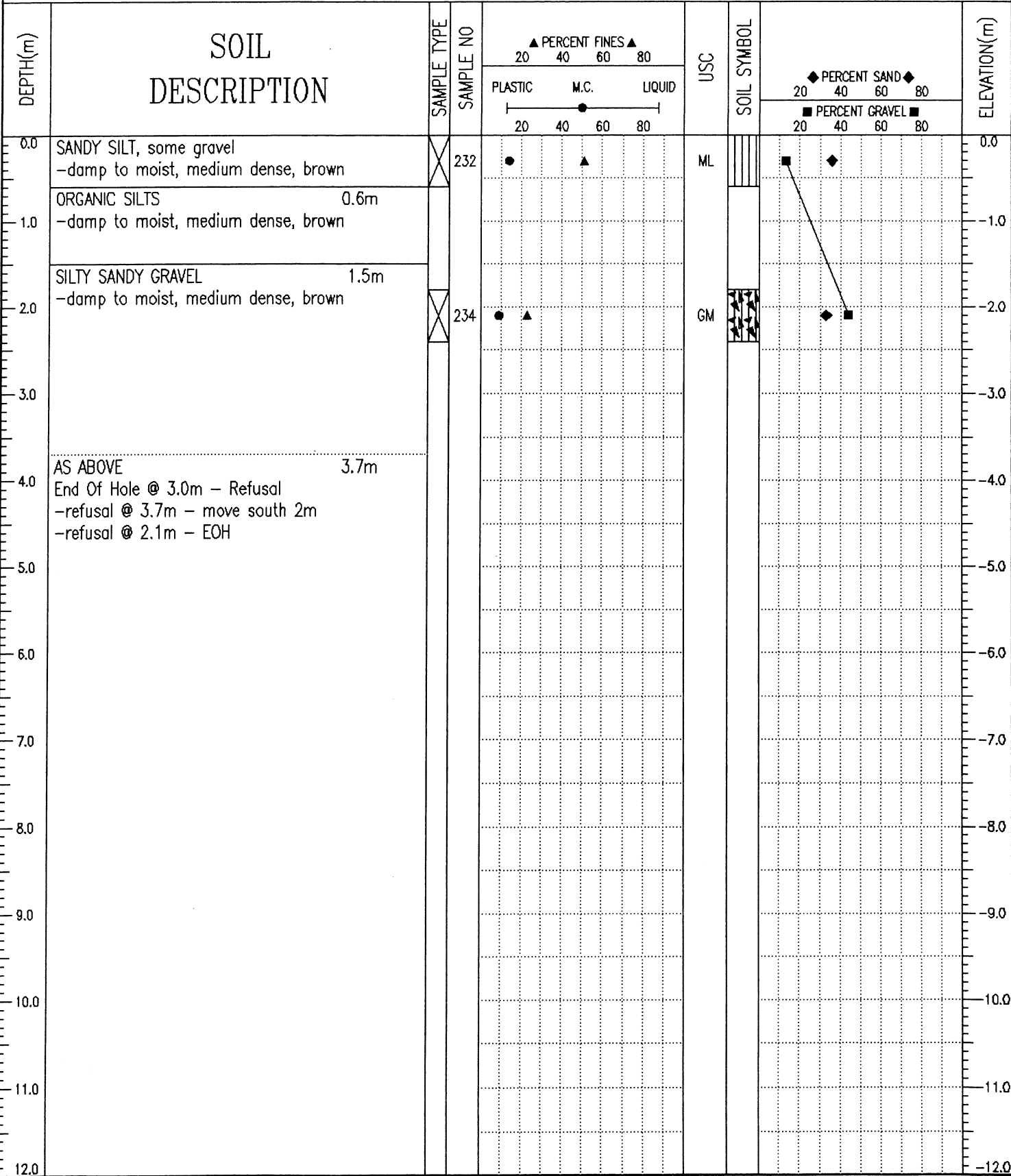
05/02/10 07:37AM (YIG\_HWYS)

Geotechnical Services Km 1691.7 to 1717.3 Alaska Highway #1 TEST PIT NO: 30117

Donjek Services Ltd. UTM ZONE: - N6772256 E634222 PROJECT NO: 8002-318

CME75 Drill on FN60 Flextrac Nodwell ELEVATION:

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW

REVIEWED BY:

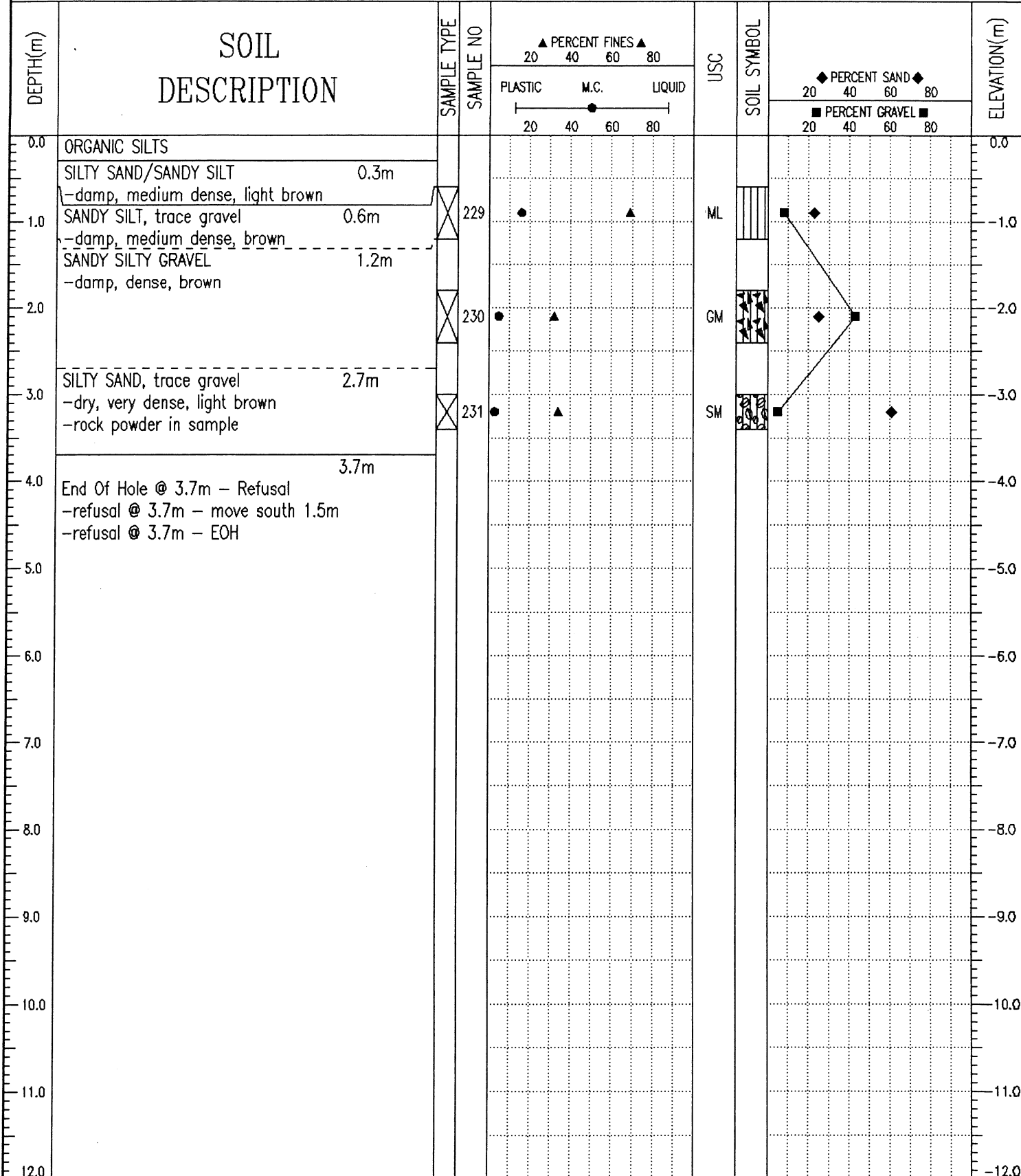
Fig. No: 49

COMPLETION DEPTH: 3.7 m

COMPLETE: 08/12/04

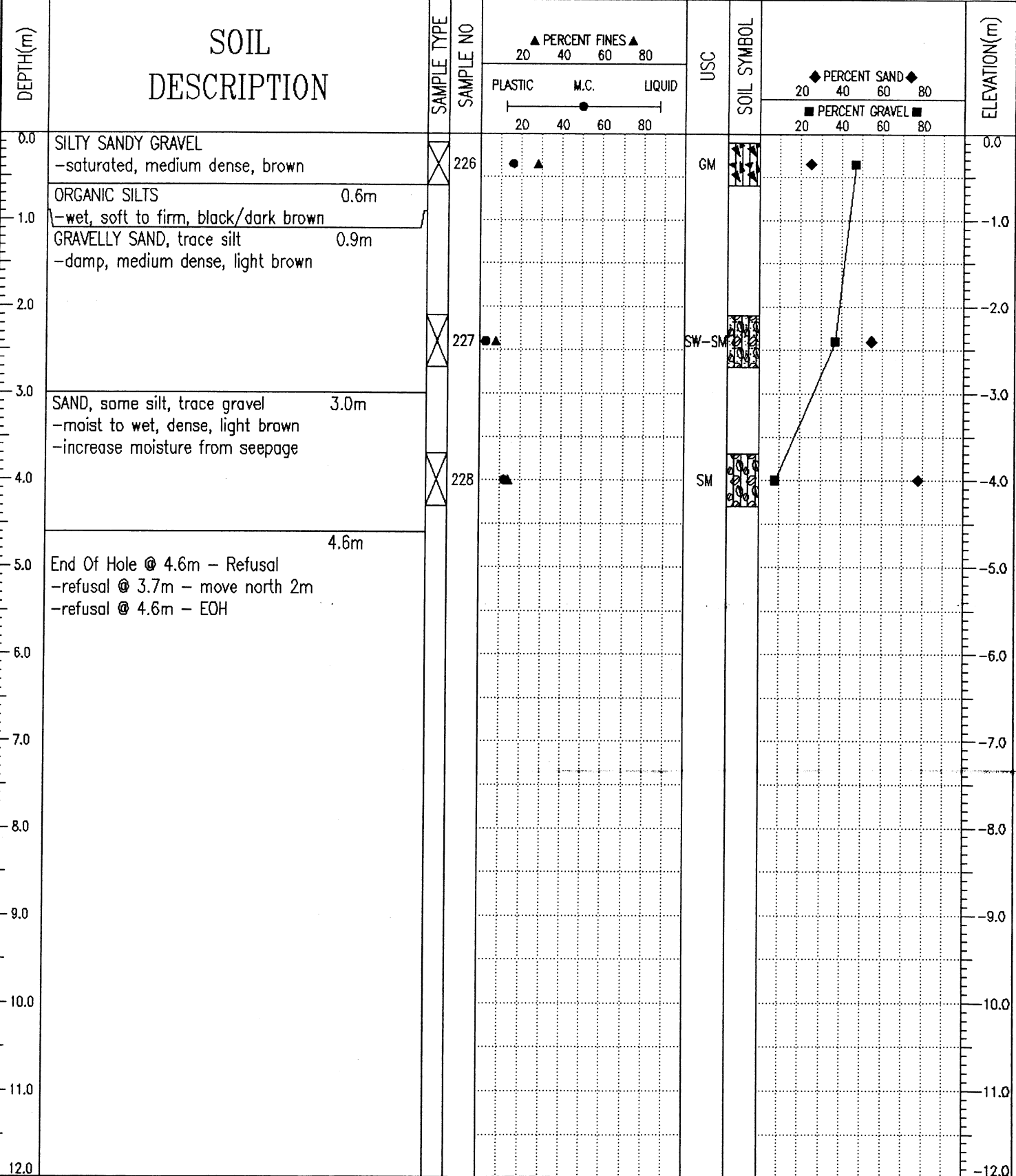
Page 1 of 1

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



<b>J. R. Paine &amp; Associates Ltd.</b> Whitehorse, Yukon	LOGGED BY: RW	COMPLETION DEPTH: 3.7 m
	REVIEWED BY:	COMPLETE: 08/12/04
	Fig. No: 48	Page 1 of 1

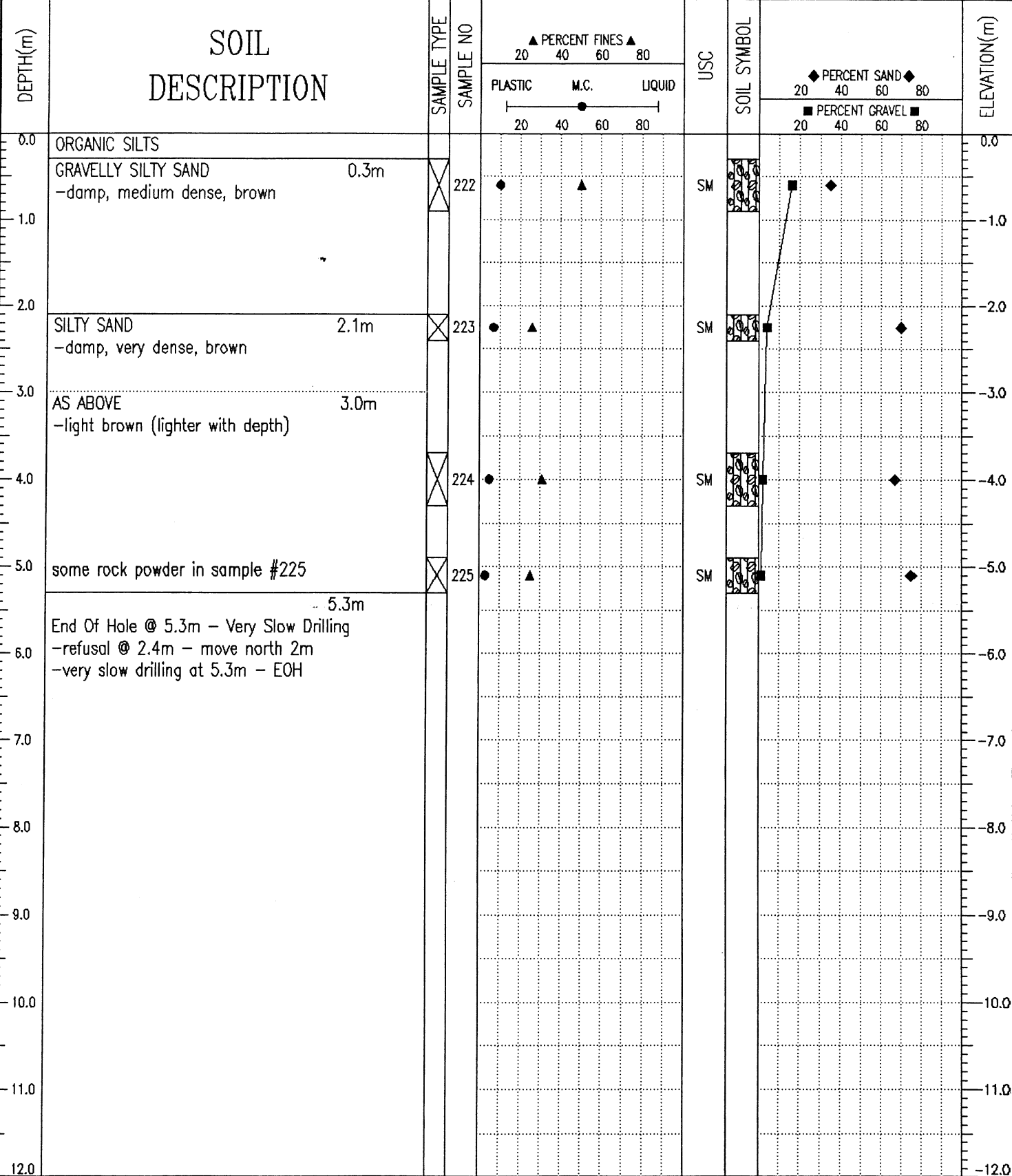
SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

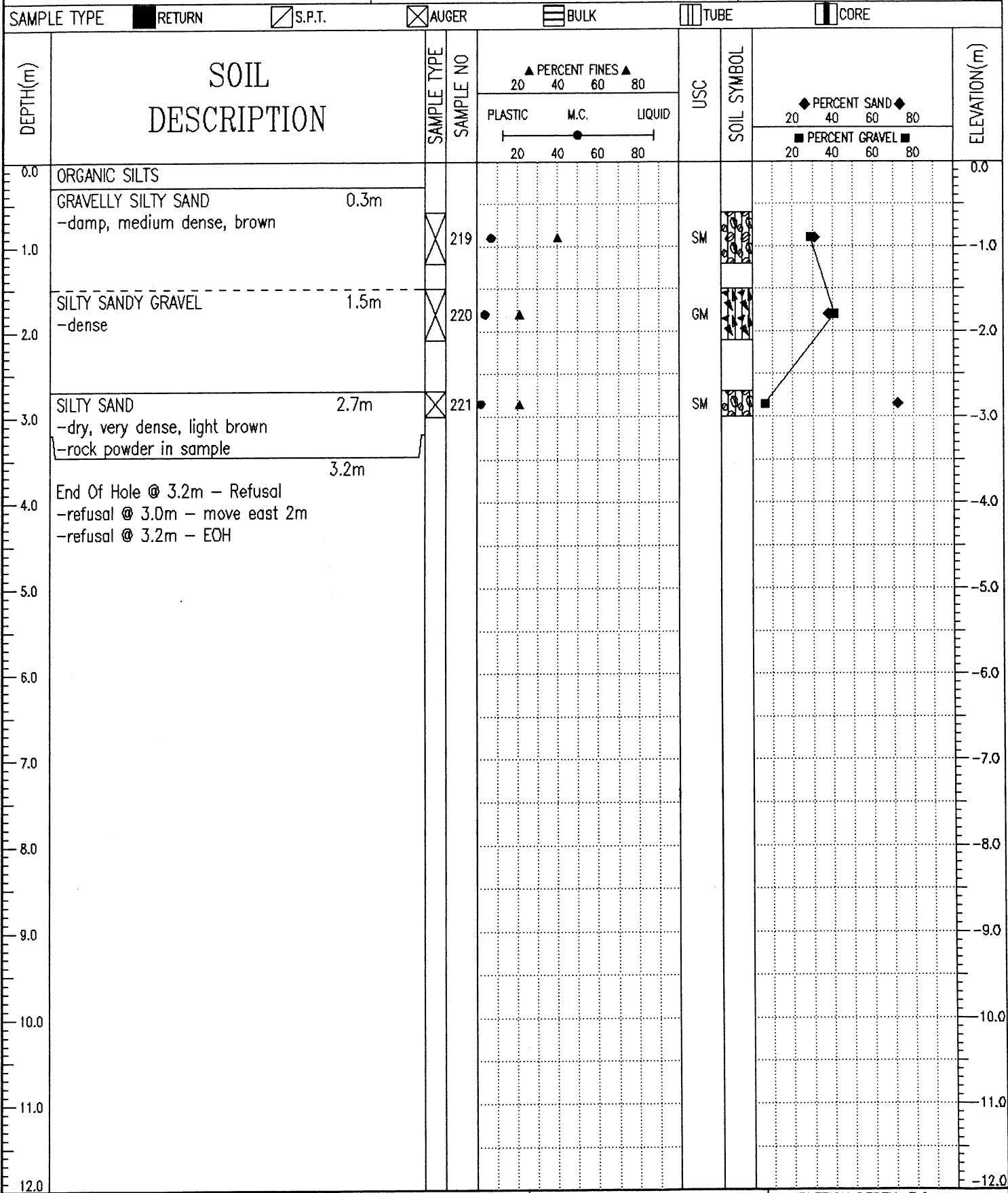
LOGGED BY: RW	COMPLETION DEPTH: 4.6 m
REVIEWED BY:	COMPLETE: 08/12/04
Fig. No: 47	Page 1 of 1

SAMPLE TYPE    RETURN    S.P.T.    AUGER    BULK    TUBE    CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

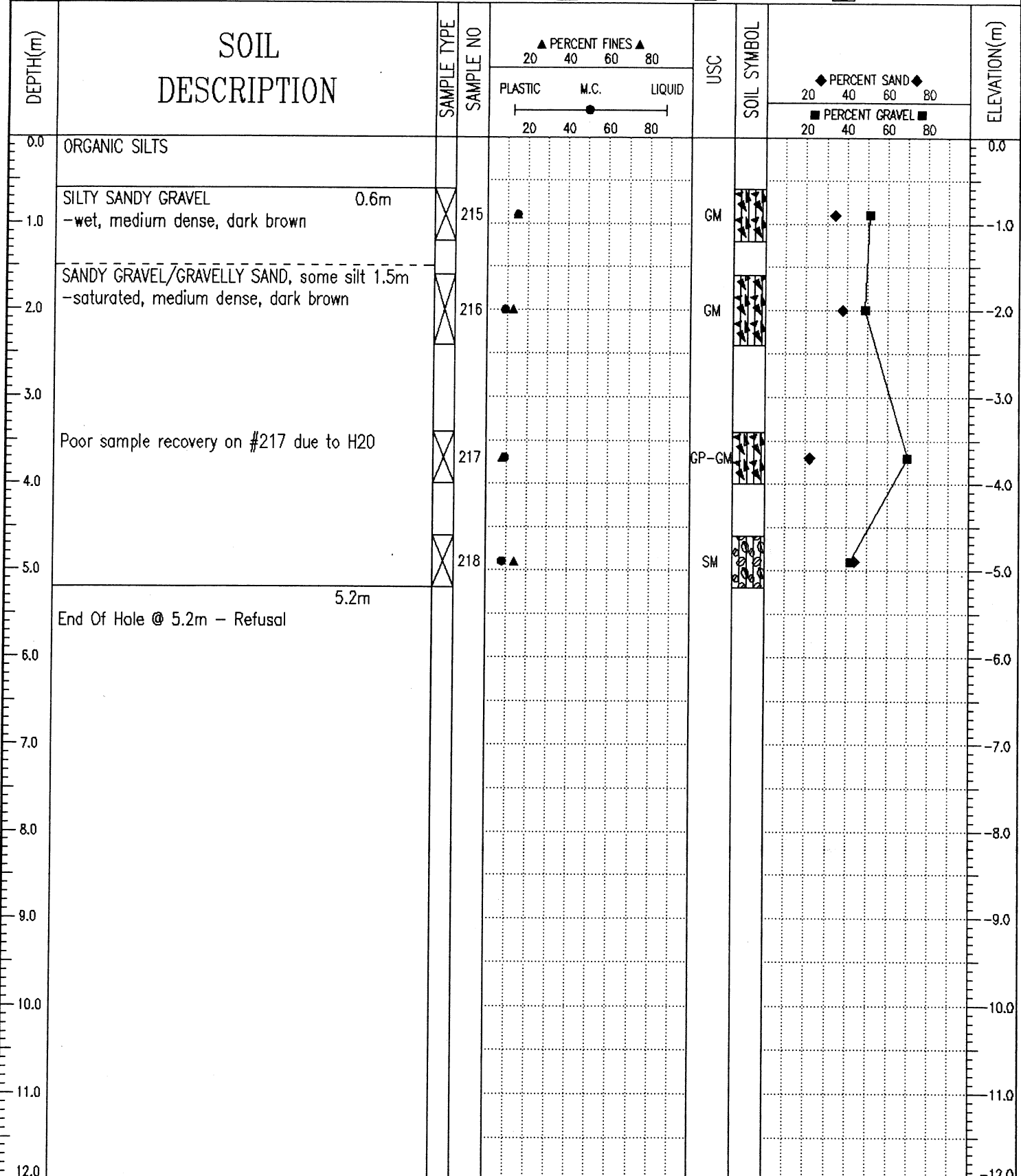
LOGGED BY: RW	COMPLETION DEPTH: 5.3 m
REVIEWED BY:	COMPLETE: 08/12/04
Fig. No: 46	Page 1 of 1



05/02/10 07:38AM (YIG\_HWYS)

Geotechnical Services	Km 1691.7 to 1717.3 Alaska Highway #1	TEST PIT NO: 30122
Donjek Services Ltd.	UTM ZONE: - N6772688 E633916	PROJECT NO: 8002-318
CME75 Drill on FN60 Flextrac Nodwell		ELEVATION:

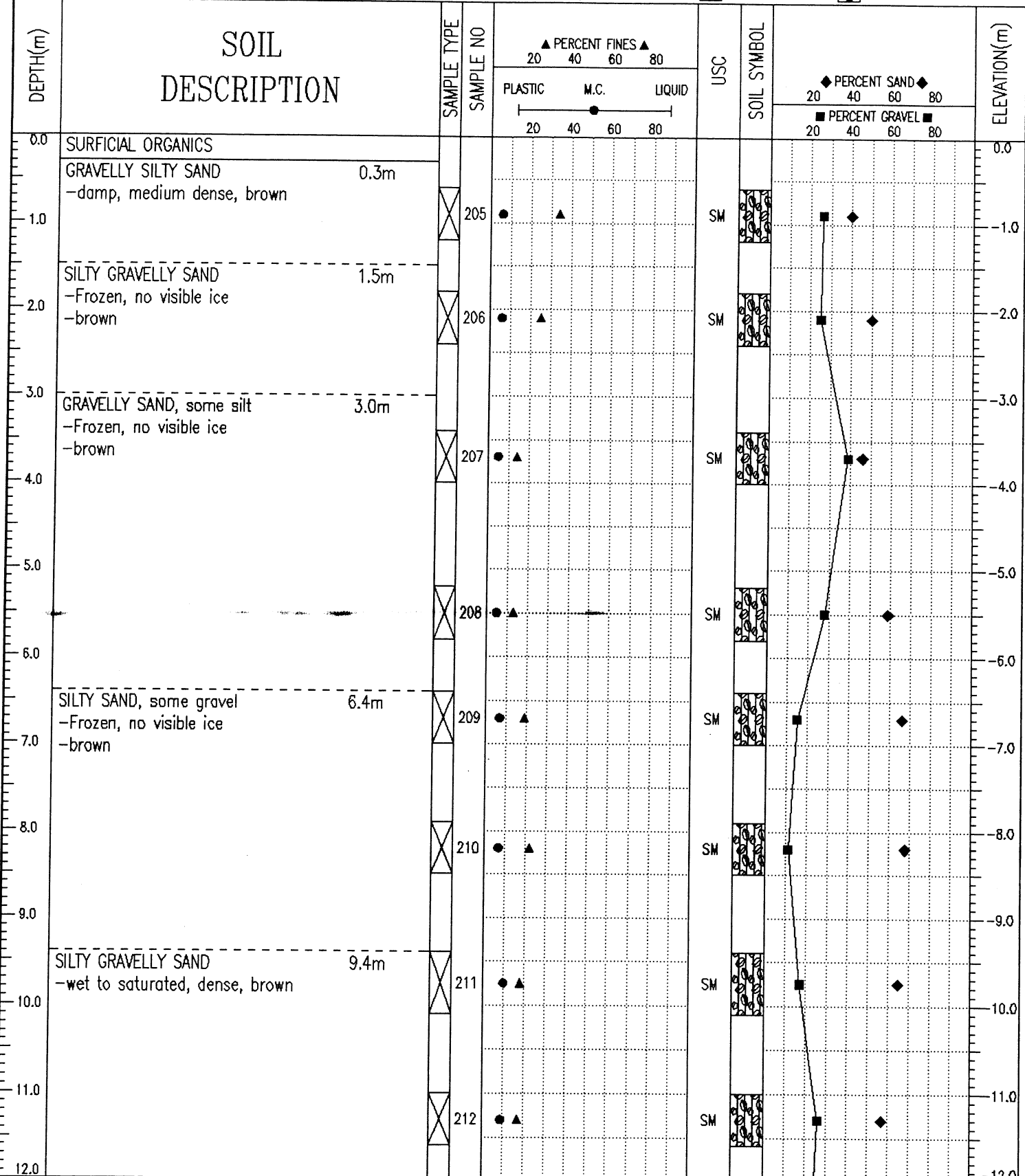
SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW	COMPLETION DEPTH: 5.2 m
REVIEWED BY:	COMPLETE: 08/12/04
Fig. No: 44	Page 1 of 1

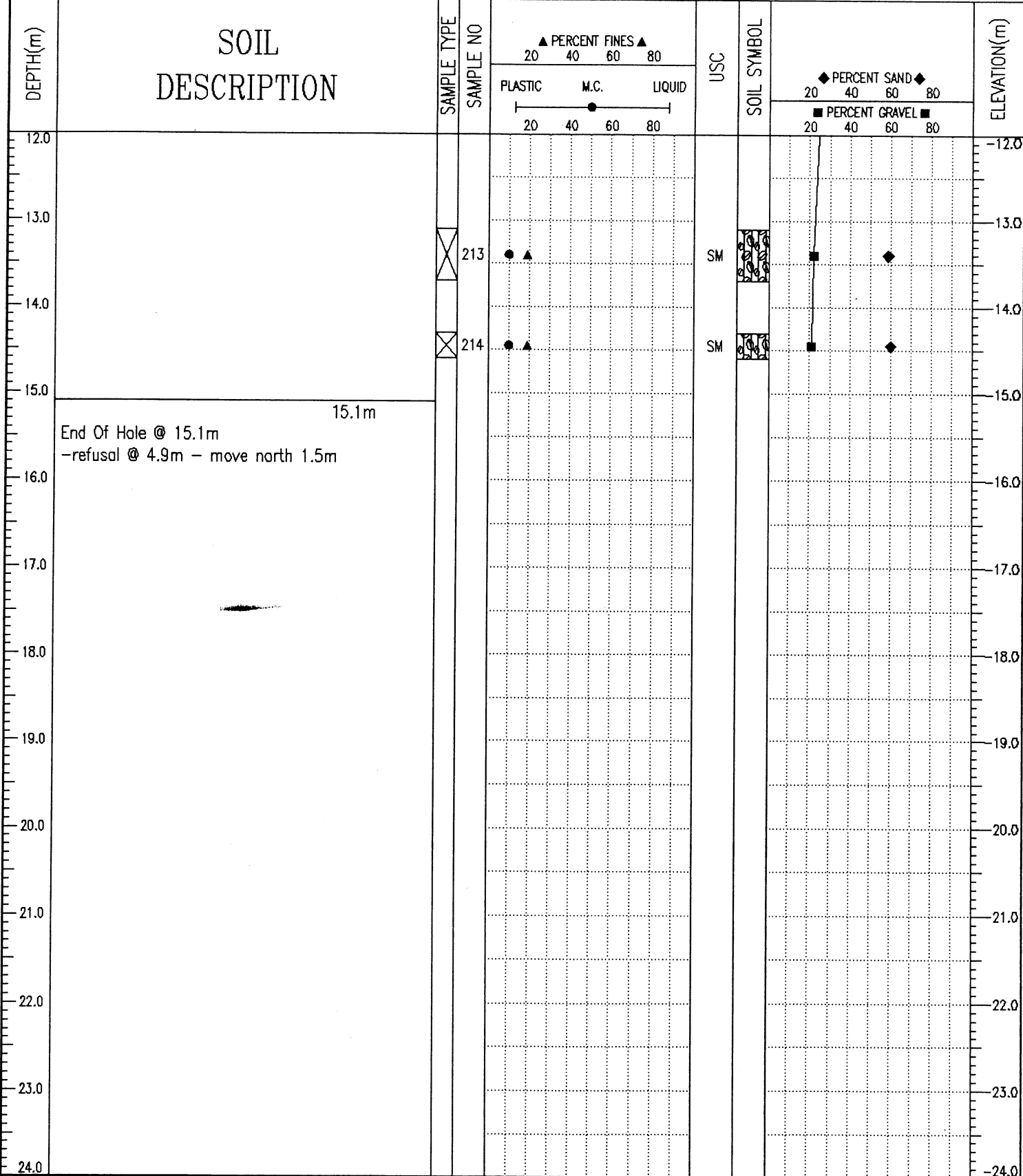
SAMPLE TYPE:  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

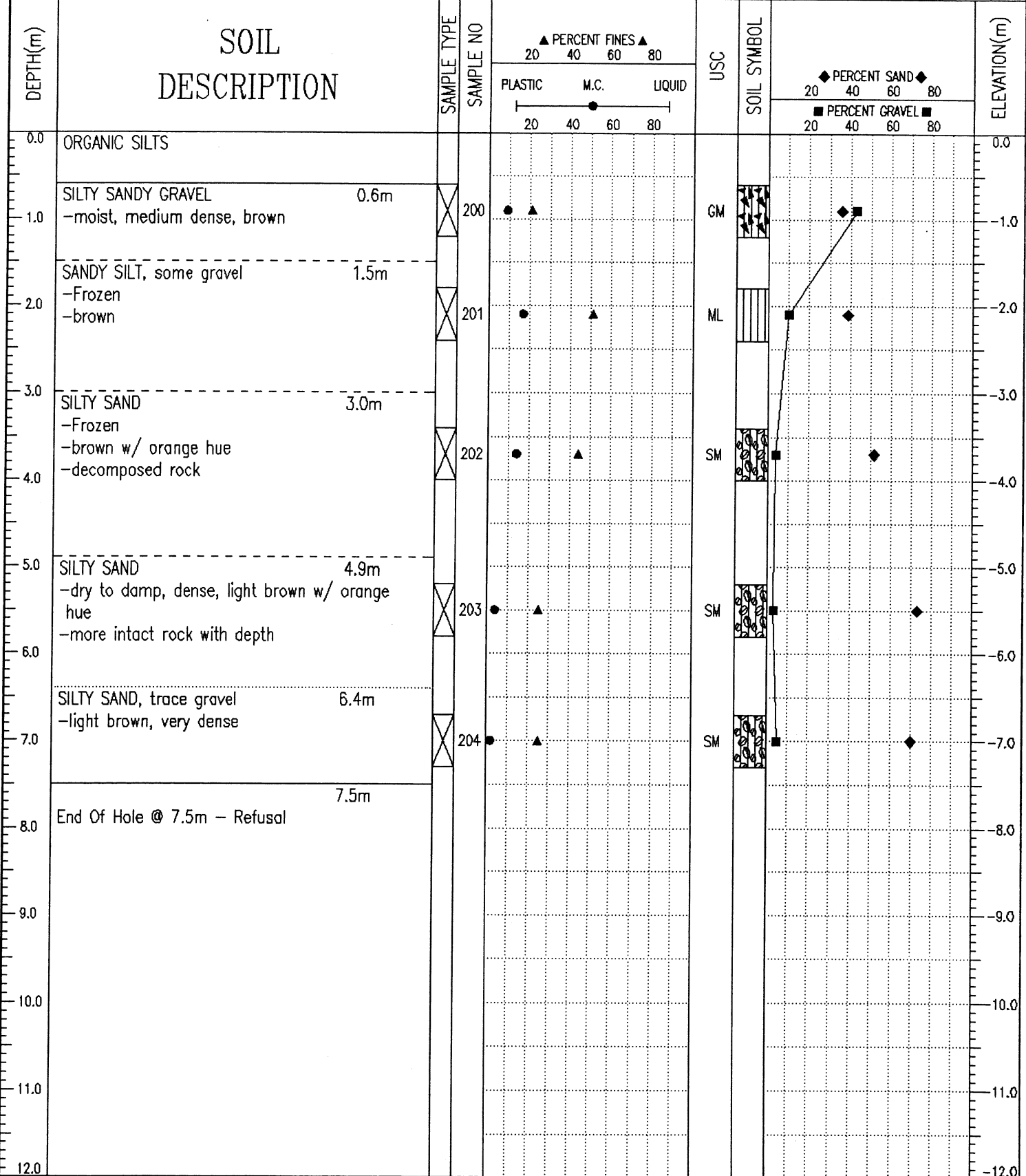
LOGGED BY: RW	COMPLETION DEPTH: 15.1 m
REVIEWED BY:	COMPLETE: 08/11/04
Fig. No: 43	Page 1 of 2

SAMPLE TYPE    RETURN    S.P.T.    AUGER    BULK    TUBE    CORE



<b>J. R. Paine &amp; Associates Ltd.</b> Whitehorse, Yukon	LOGGED BY: RW	COMPLETION DEPTH: 15.1 m
	REVIEWED BY:	COMPLETE: 08/11/04
	Fig. No: 43	Page 2 of 2

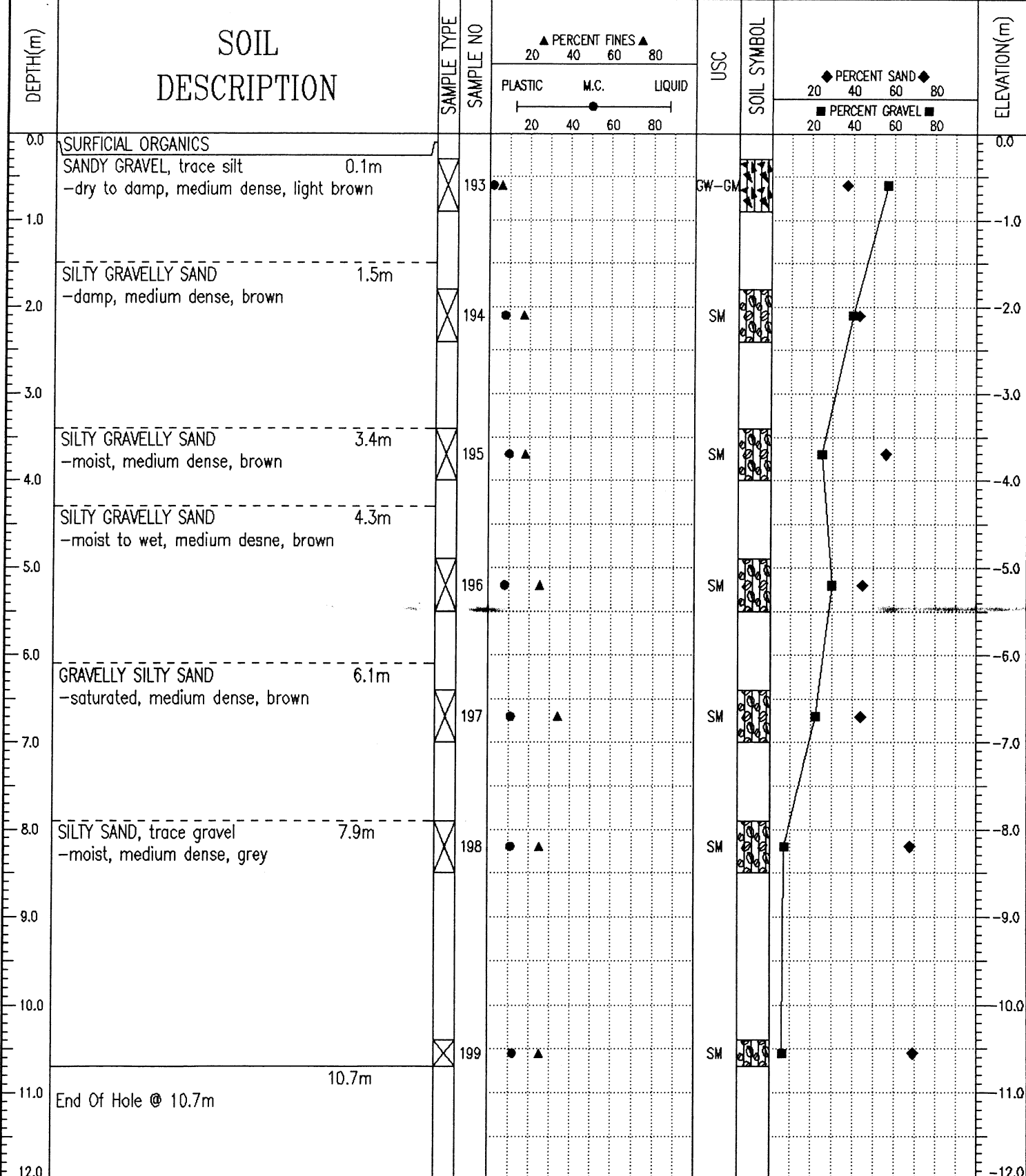
SAMPLE TYPE    RETURN    S.P.T.    AUGER    BULK    TUBE    CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW	COMPLETION DEPTH: 7.5 m
REVIEWED BY:	COMPLETE: 08/11/04
Fig. No: 42	Page 1 of 1

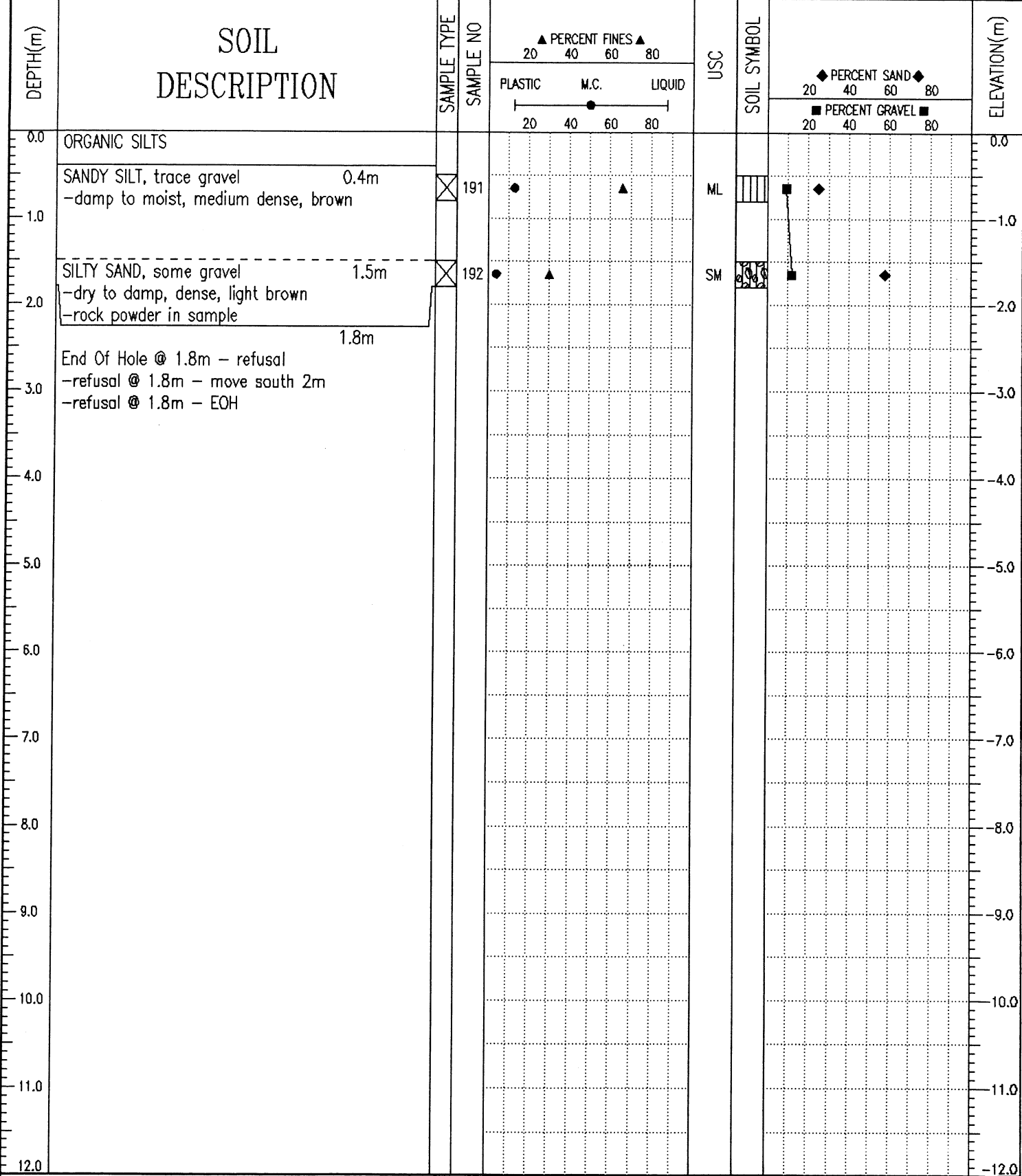
SAMPLE TYPE    RETURN    S.P.T.    AUGER    BULK    TUBE    CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW	COMPLETION DEPTH: 10.7 m
REVIEWED BY:	COMPLETE: 08/11/04
Fig. No: 41	Page 1 of 1

SAMPLE TYPE    RETURN    S.P.T.    AUGER    BULK    TUBE    CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

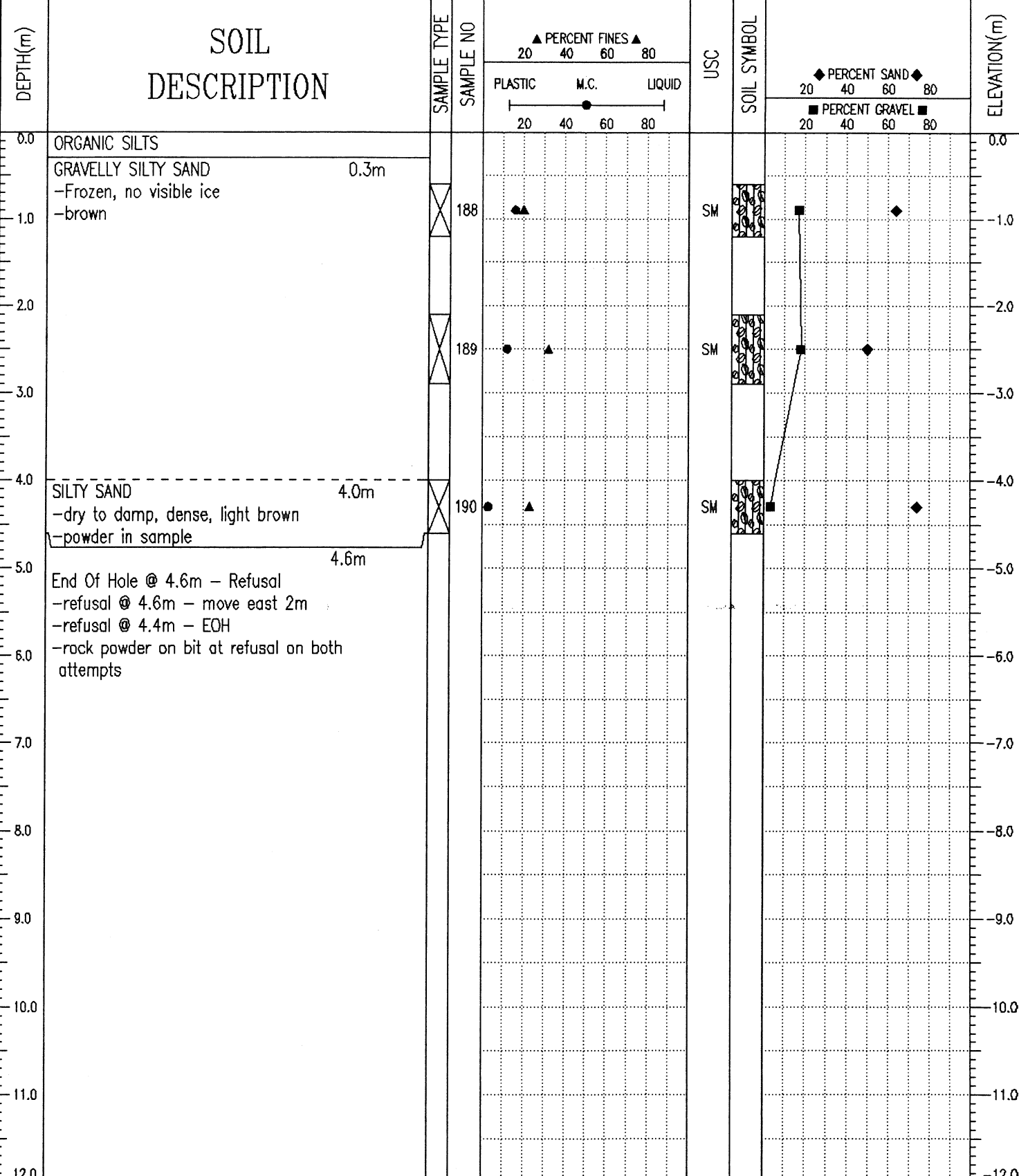
LOGGED BY: RW	COMPLETION DEPTH: 1.8 m
REVIEWED BY:	COMPLETE: 08/10/04
Fig. No: 40	Page 1 of 1

Geotechnical Services Km 1691.7 to 1717.3 Alaska Highway #1 TEST PIT NO: 30127

Donjek Services Ltd. UTM ZONE: - N6773331 E633619 PROJECT NO: 8002-318

CME75 Drill on FN60 Flextrac Nodwell ELEVATION:

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW

REVIEWED BY:

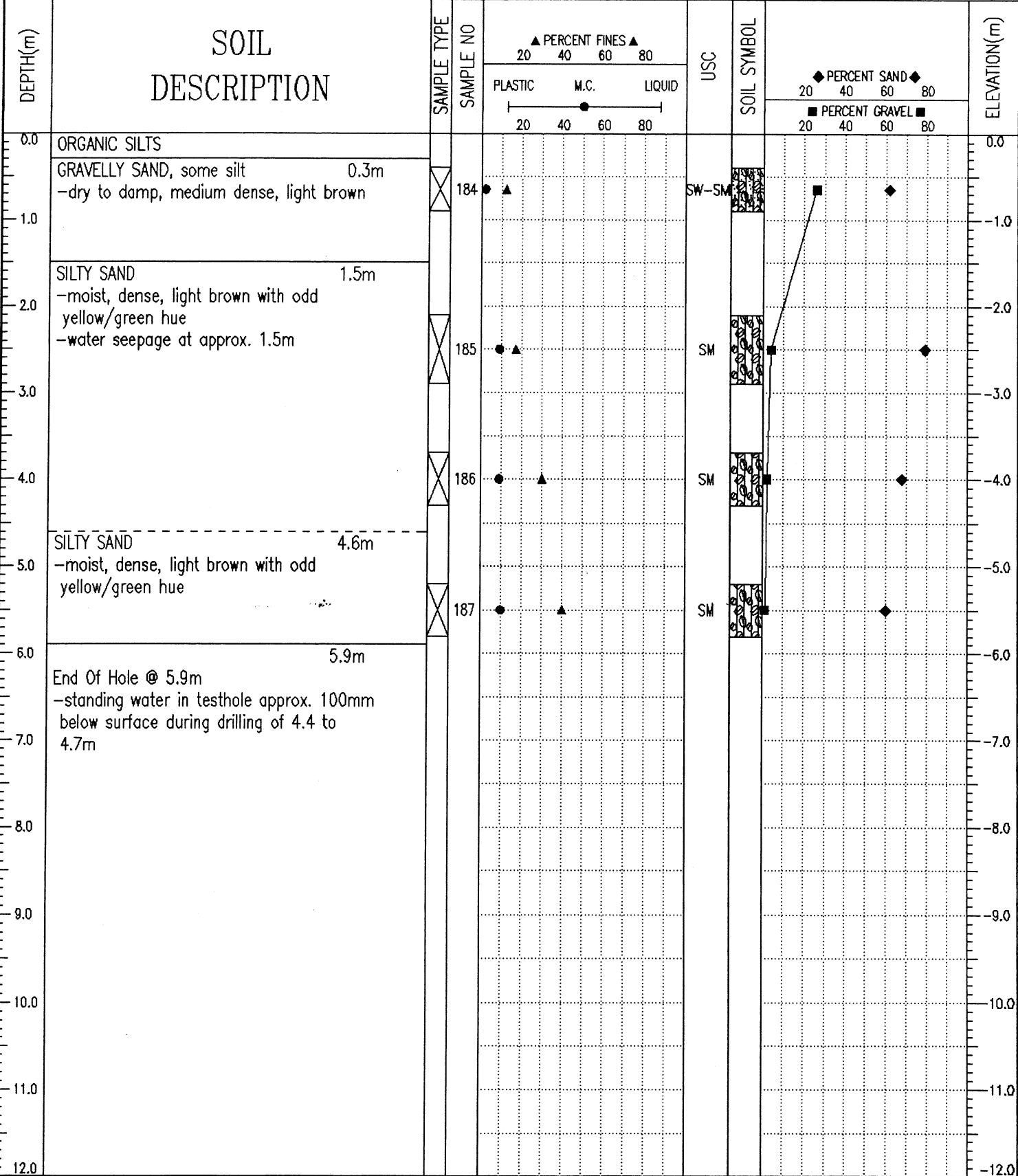
Fig. No: 39

COMPLETION DEPTH: 4.6 m

COMPLETE: 08/10/04

Page 1 of 1

SAMPLE TYPE    RETURN    S.P.T.    AUGER    BULK    TUBE    CORE

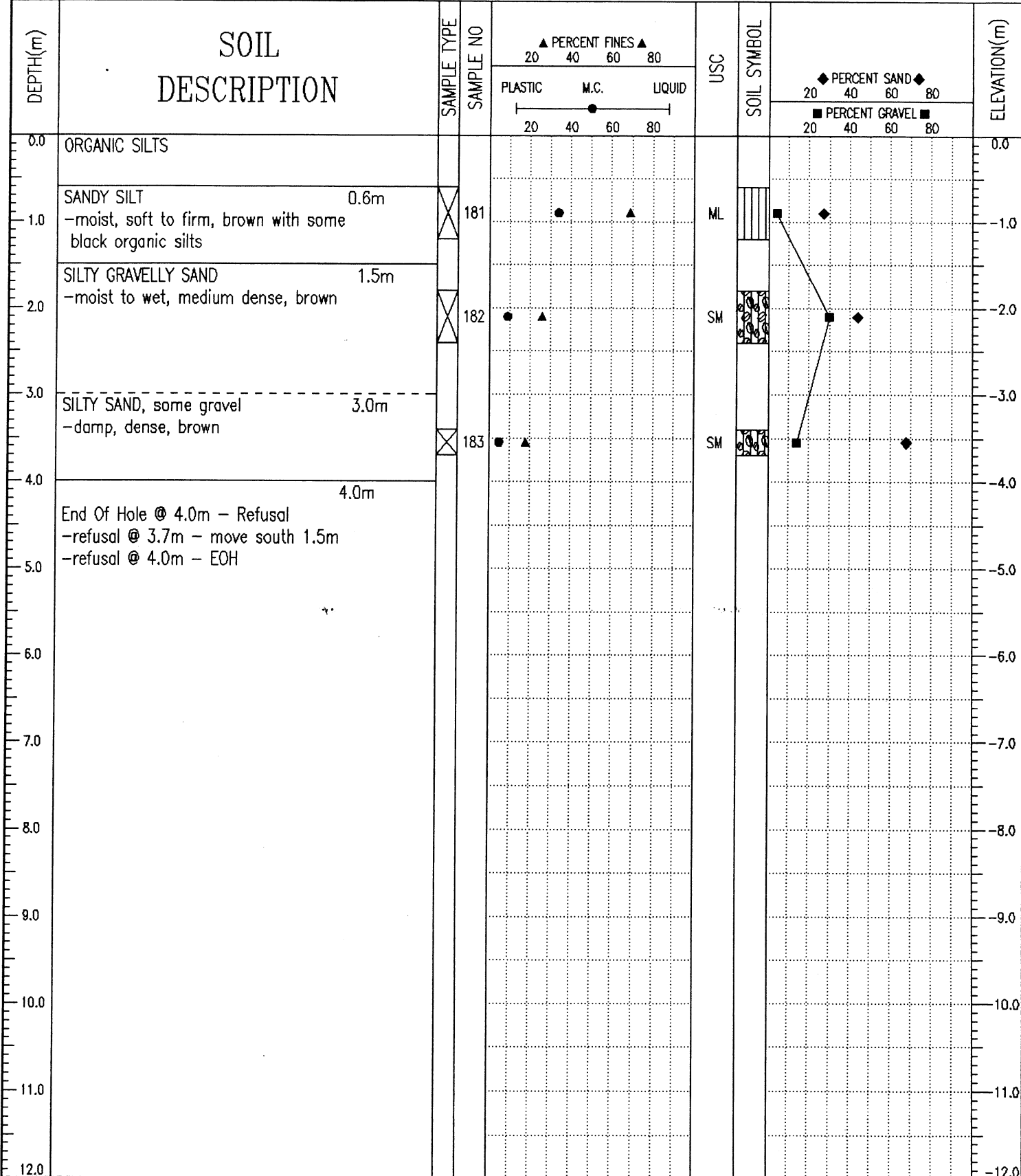


J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW  
REVIEWED BY:  
Fig. No: 38

COMPLETION DEPTH: 5.9 m  
COMPLETE: 08/10/04

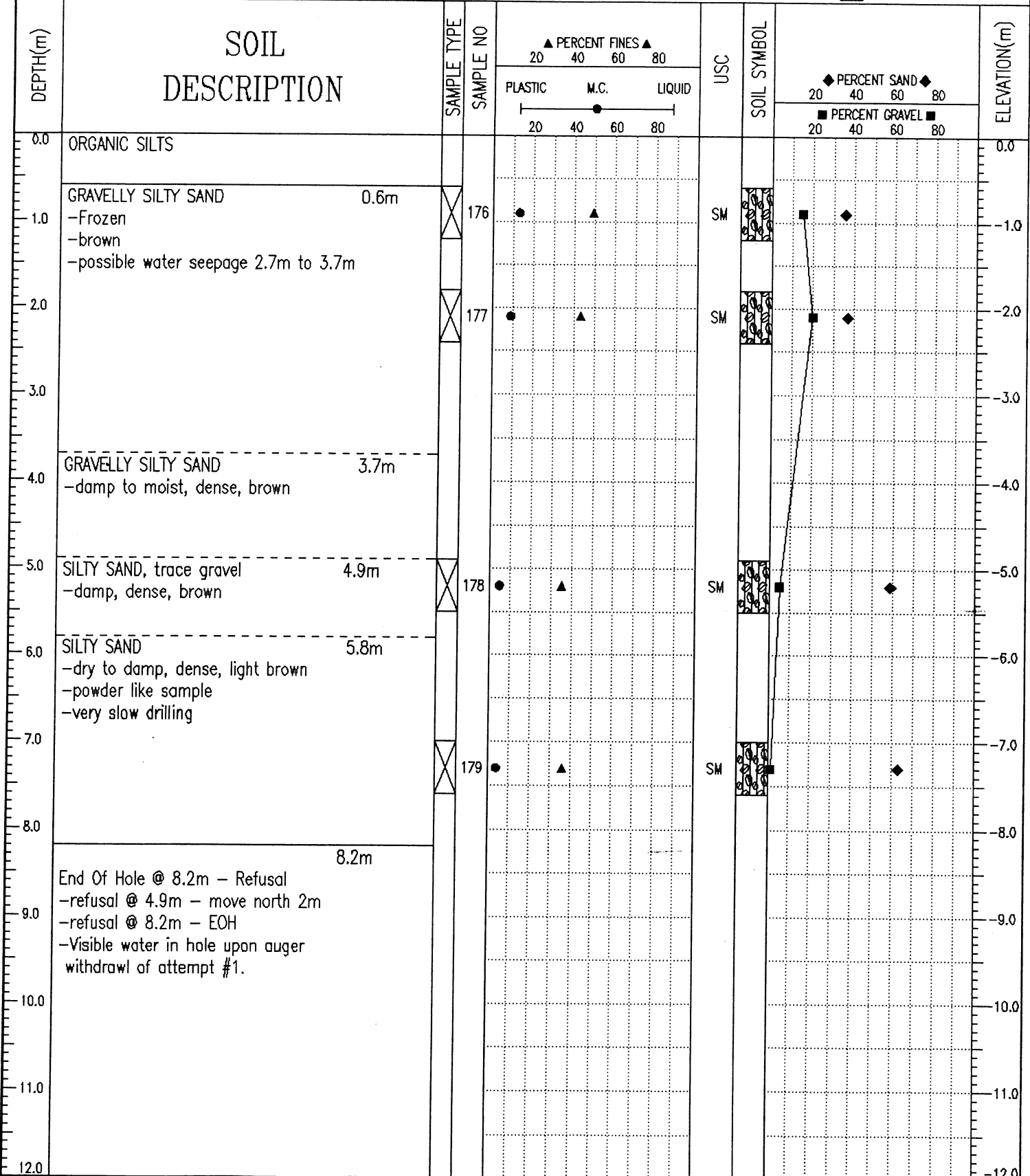
SAMPLE TYPE    RETURN    S.P.T.    AUGER    BULK    TUBE    CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW	COMPLETION DEPTH: 4 m
REVIEWED BY:	COMPLETE: 08/10/04
Fig. No: 37	Page 1 of 1

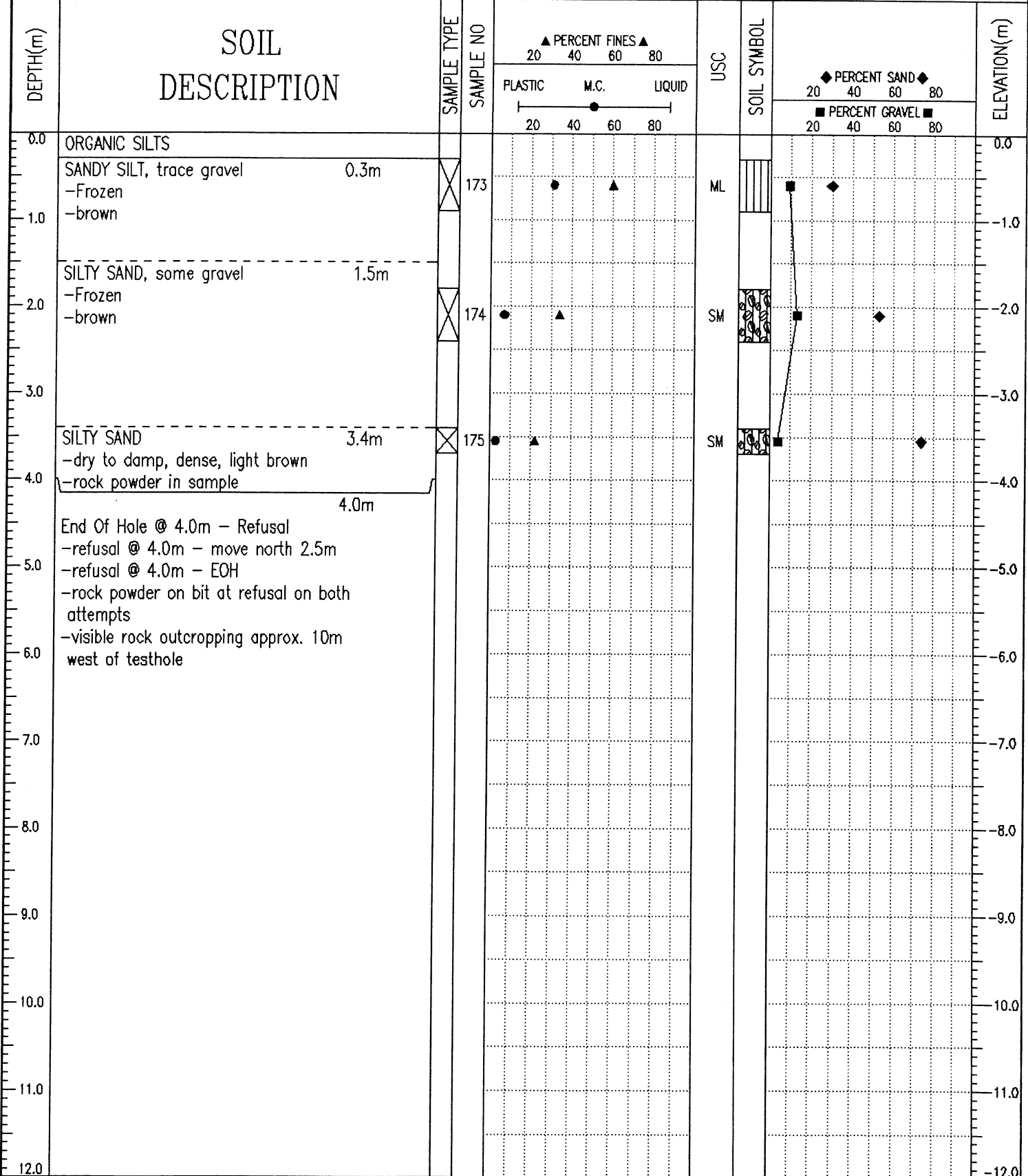
SAMPLE TYPE    RETURN    S.P.T.    AUGER    BULK    TUBE    CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW	COMPLETION DEPTH: 8.2 m
REVIEWED BY:	COMPLETE: 08/10/04
Fig. No: 36	Page 1 of 1

SAMPLE TYPE    RETURN    S.P.T.    AUGER    BULK    TUBE    CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW

REVIEWED BY:

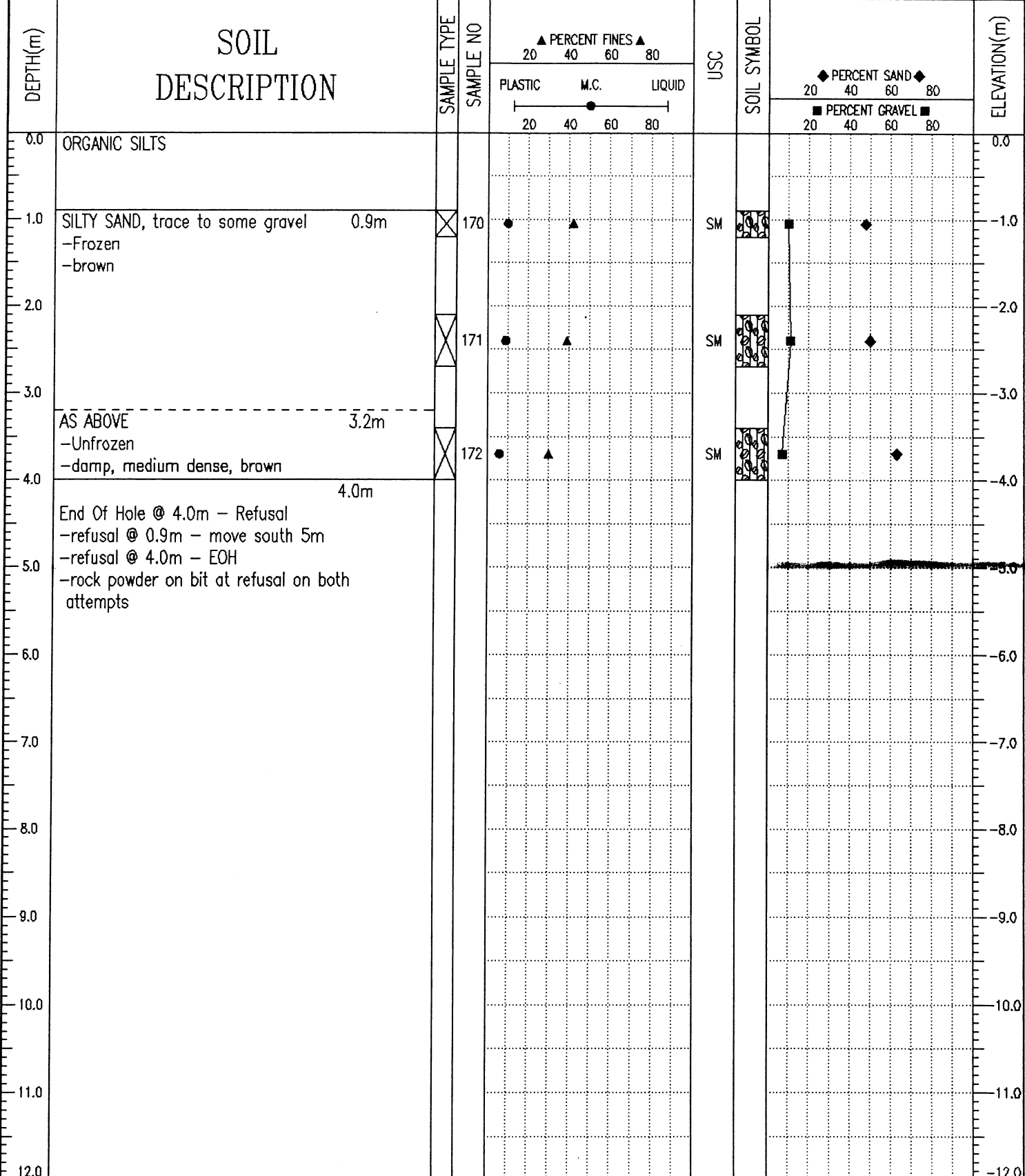
Fig. No: 35

COMPLETION DEPTH: 4 m

COMPLETE: 08/10/04

Geotechnical Services	Km 1691.7 to 1717.3 Alaska Highway #1	TEST PIT NO: 30132
Donjek Services Ltd.	UTM ZONE: - N6773786 E633337	PROJECT NO: 8002-318
CME75 Drill on FN60 Flextrac Nodwell		ELEVATION:

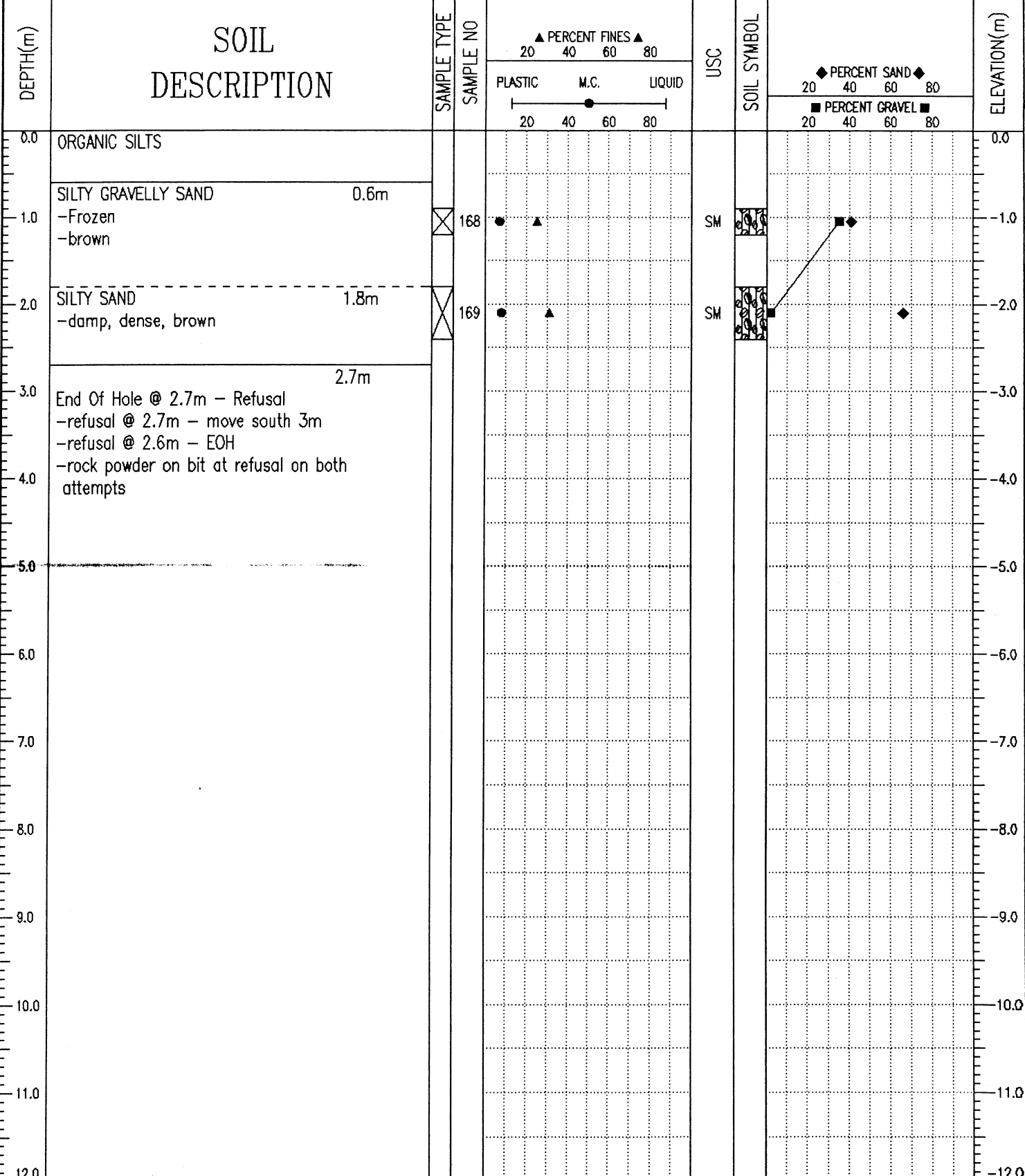
SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW	COMPLETION DEPTH: 4 m
REVIEWED BY:	COMPLETE: 08/09/04
Fig. No: 34	Page 1 of 1

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



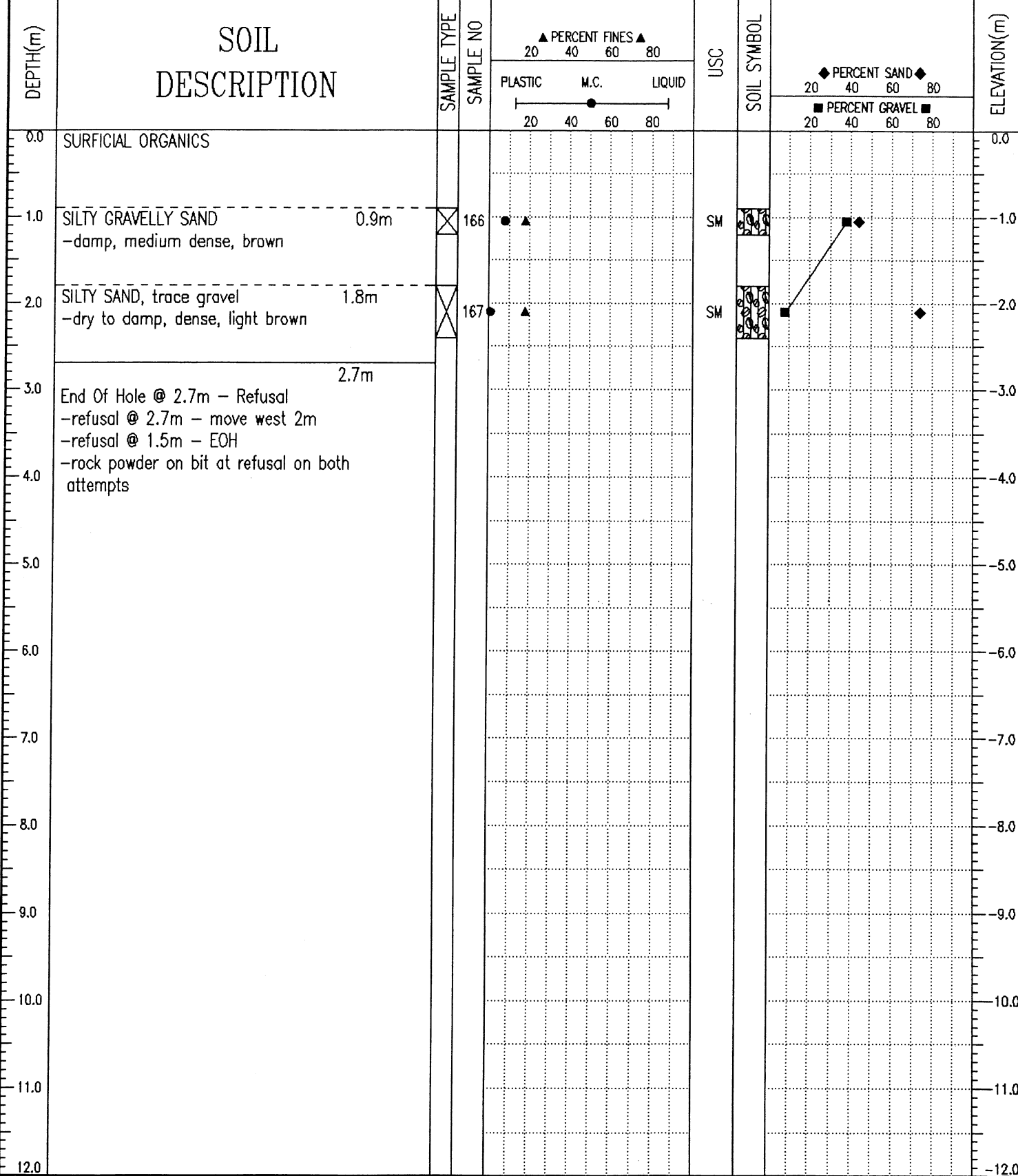
05/02/10 07:47AM (YIG\_HHMS)

Geotechnical Services Km 1691.7 to 1717.3 Alaska Highway #1 TEST PIT NO: 30134

Donjek Services Ltd. UTM ZONE: - N6674008 E633158 PROJECT NO: 8002-318

CME75 Drill on FN60 Flextrac Nodwell ELEVATION:

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW  
REVIEWED BY:  
Fig. No: 32

COMPLETION DEPTH: 2.7 m  
COMPLETE: 08/09/04

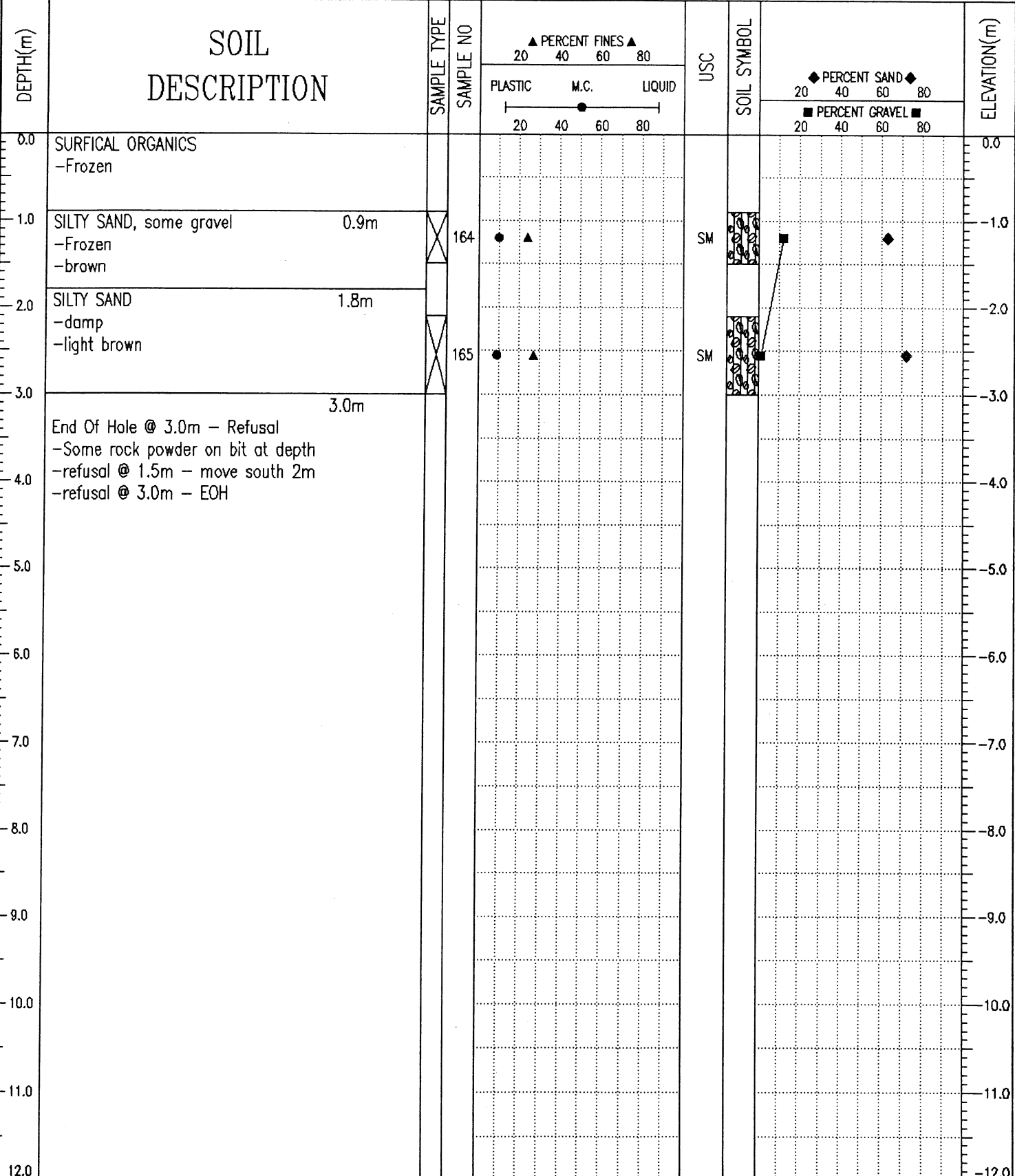
05/02/10 07:48AM (YIG\_HHTS)

Geotechnical Services Km 1691.7 to 1717.3 Alaska Highway #1 TEST PIT NO: 30135

Donjek Services Ltd. UTM ZONE: - N6674137 E633067 PROJECT NO: 8002-318

CME75 Drill on FN60 Flextrac Nodwell ELEVATION:

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW

REVIEWED BY:

Fig. No: 31

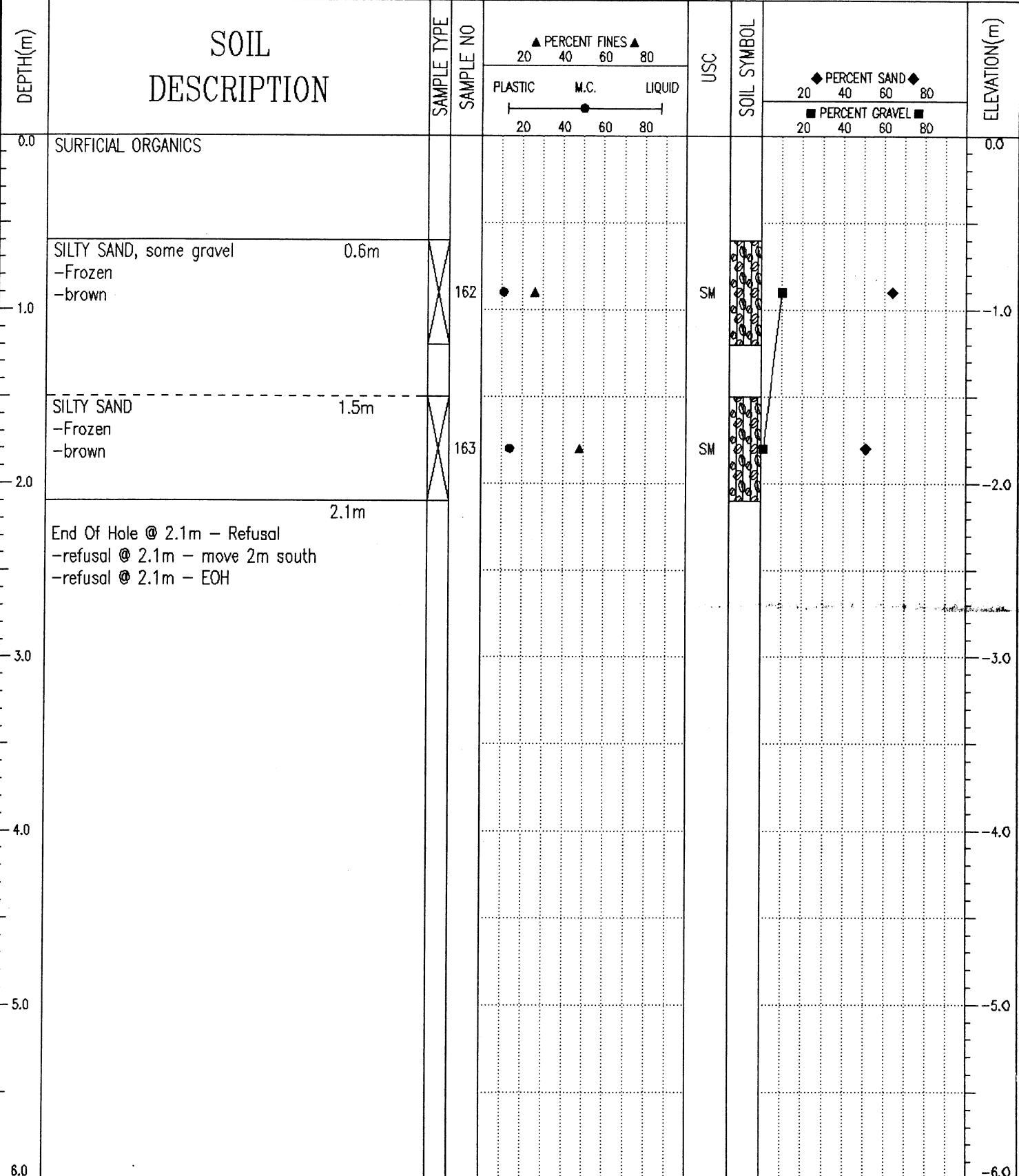
COMPLETION DEPTH: 3 m

COMPLETE: 08/09/04

Page 1 of 1

Geotechnical Services	Km 1691.7 to 1717.3 Alaska Highway #1	TEST PIT NO: 30136
Donjek Services Ltd.	UTM ZONE: - N6674206 E633003	PROJECT NO: 9002-318
CME75 Drill on FN60 Flextrac Nodwell		ELEVATION:

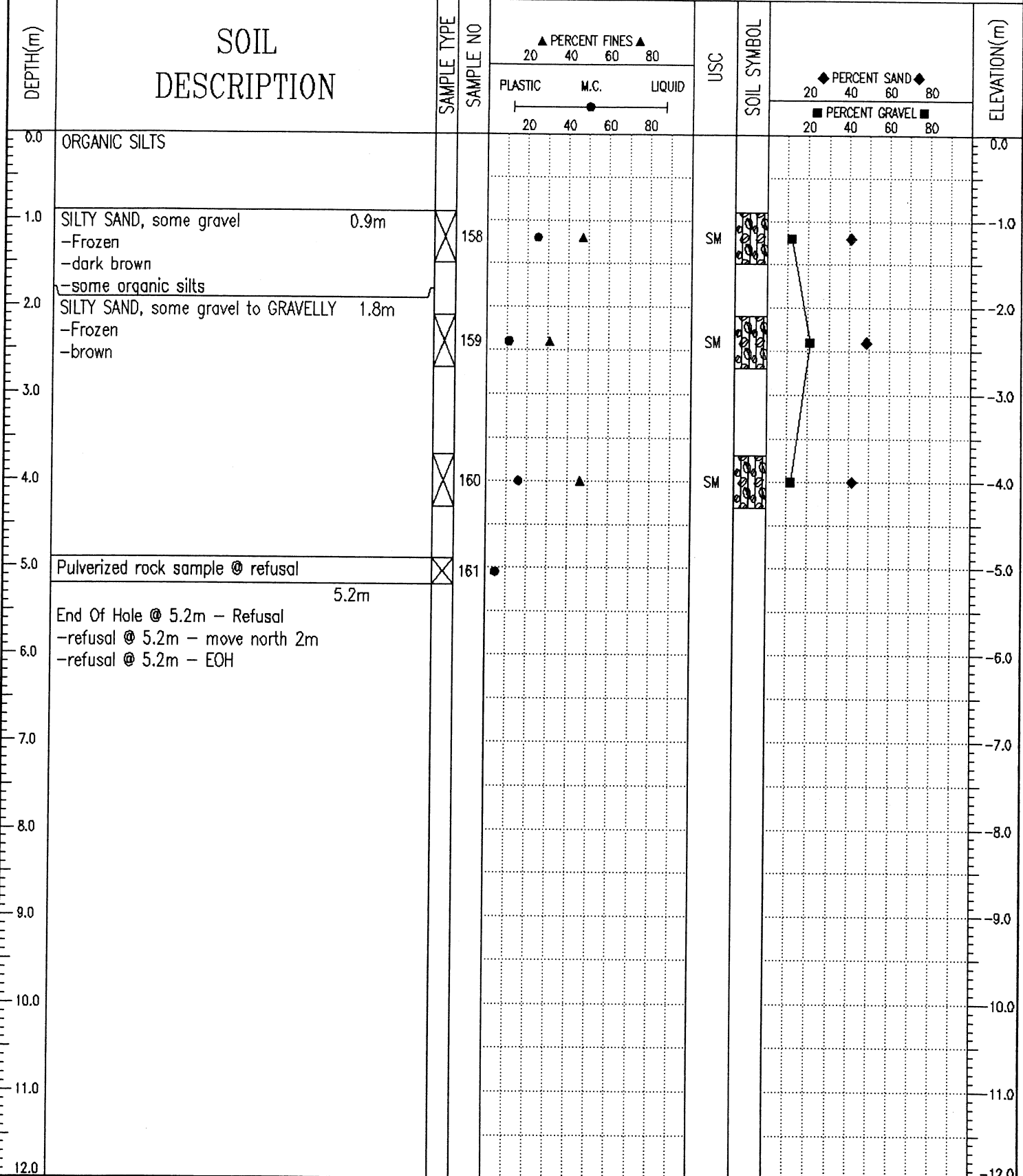
SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW	COMPLETION DEPTH: 2.1 m
REVIEWED BY:	COMPLETE: 08/09/04
Fig. No: 30	Page 1 of 1

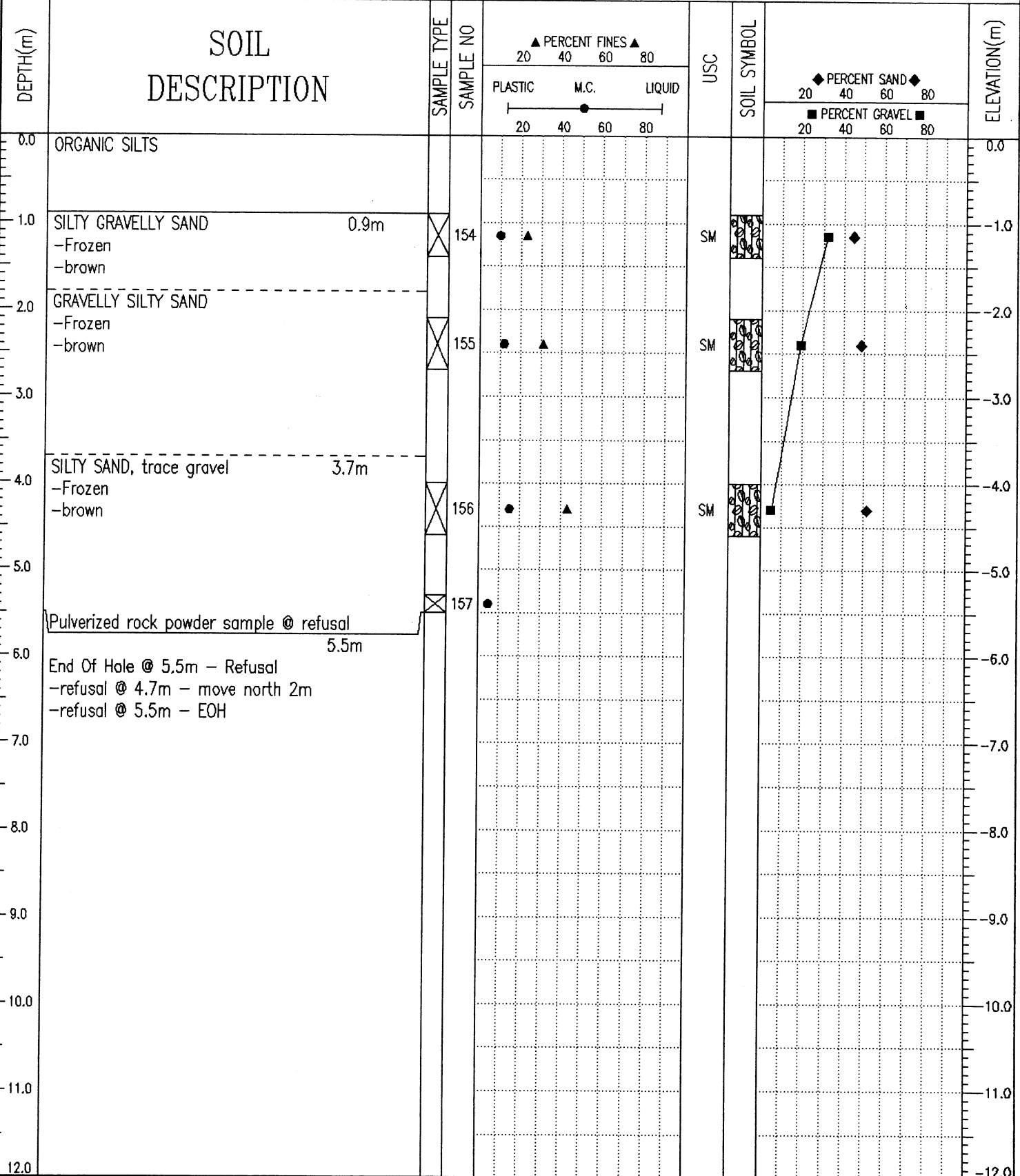
SAMPLE TYPE    RETURN    S.P.T.    AUGER    BULK    TUBE    CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW	COMPLETION DEPTH: 5.2 m
REVIEWED BY:	COMPLETE: 08/03/04
Fig. No: 29	Page 1 of 1

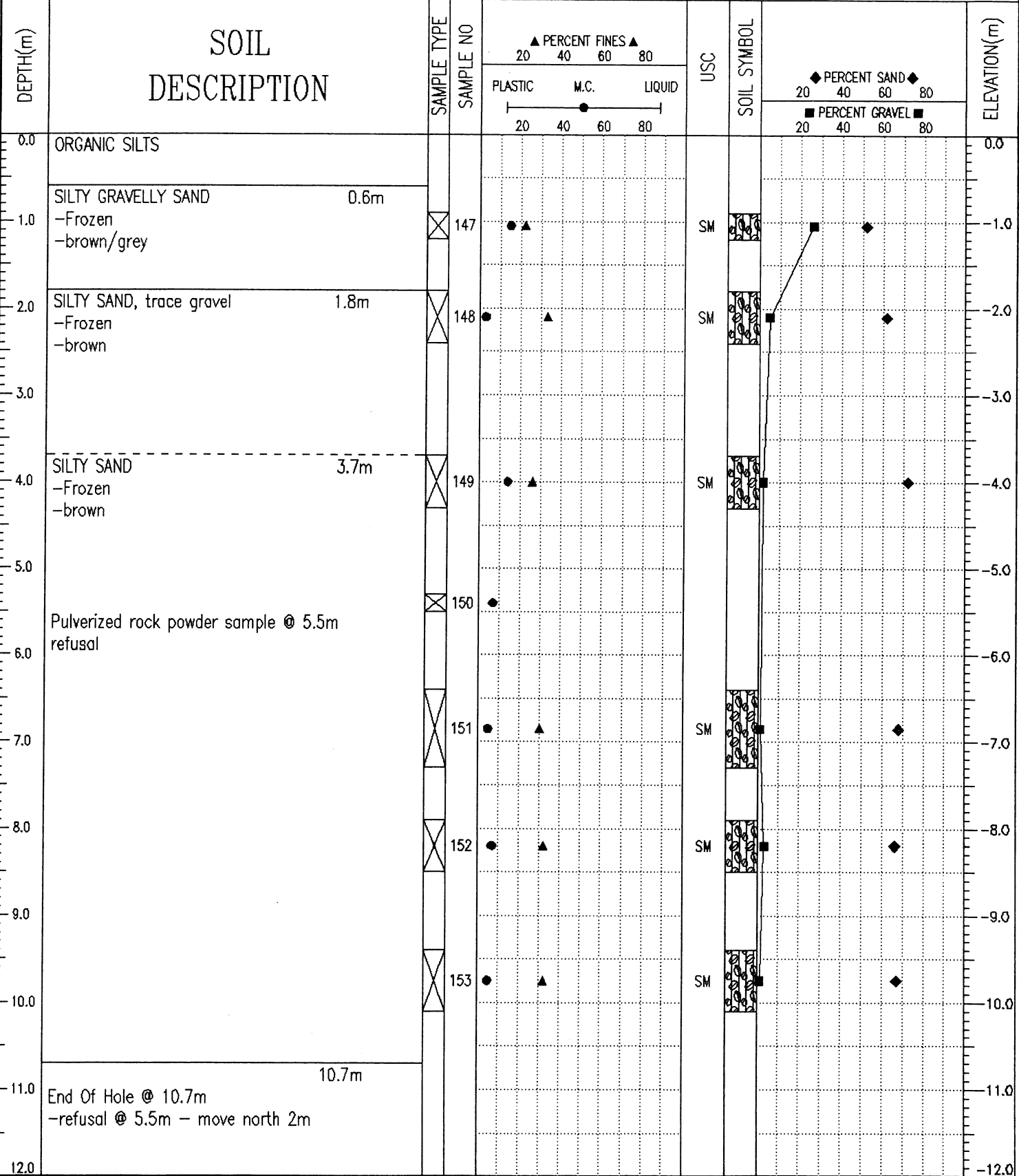
SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW	COMPLETION DEPTH: 5.5 m
REVIEWED BY:	COMPLETE: 08/03/04
Fig. No: 28	Page 1 of 1

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW  
REVIEWED BY:  
Fig. No: 27

COMPLETION DEPTH: 10.7 m  
COMPLETE: 08/03/04

Geotechnical Services

Km 1691.7 to 1717.3 Alaska Highway #1

TEST PIT NO: 30151

Donjek Services Ltd.

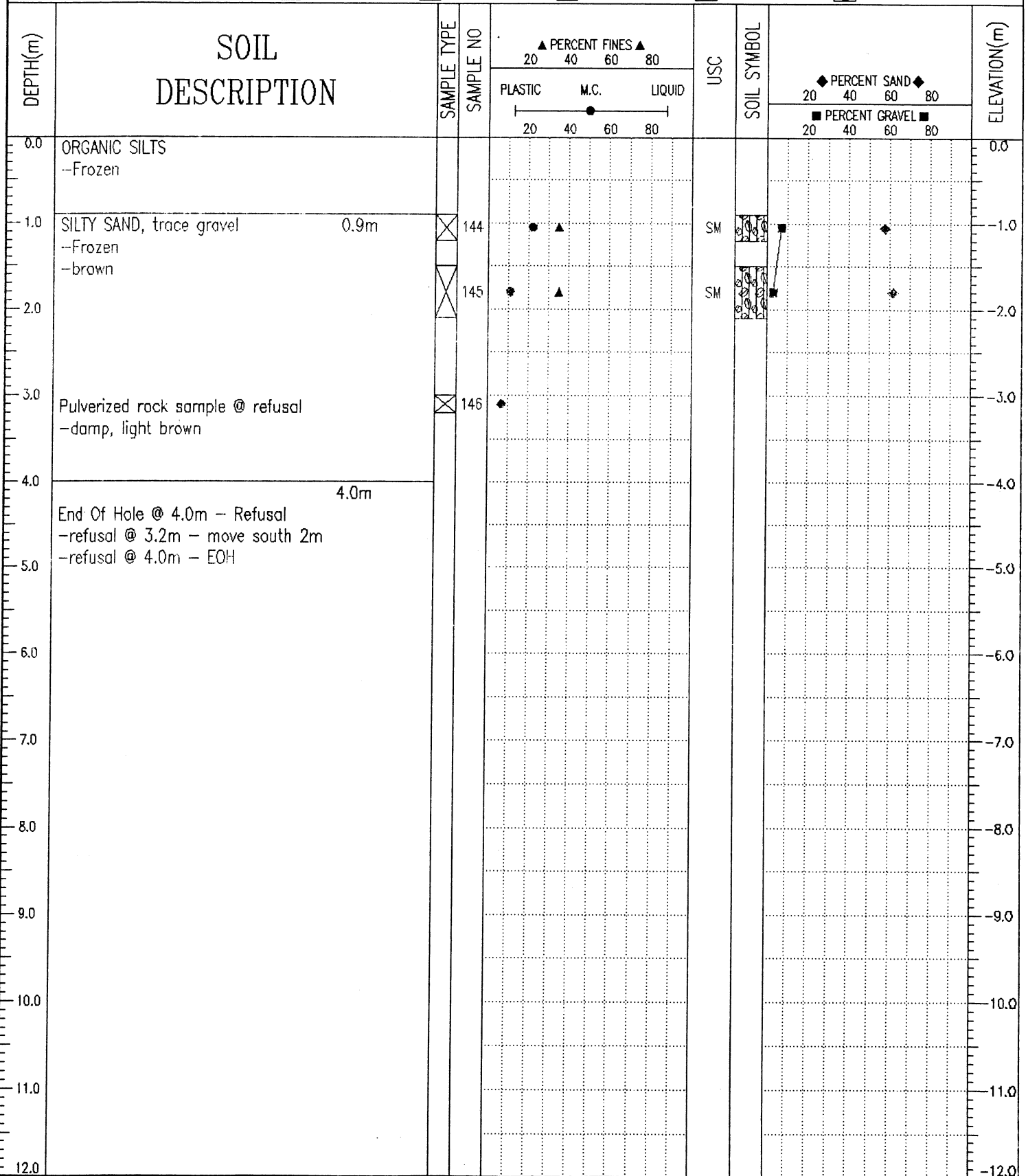
UTM ZONE: - N6775813 E631868

PROJECT NO: 8002-318

CME75 Drill on FN60 Flextrac Nodwell

ELEVATION:

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW

COMPLETION DEPTH: 4 m

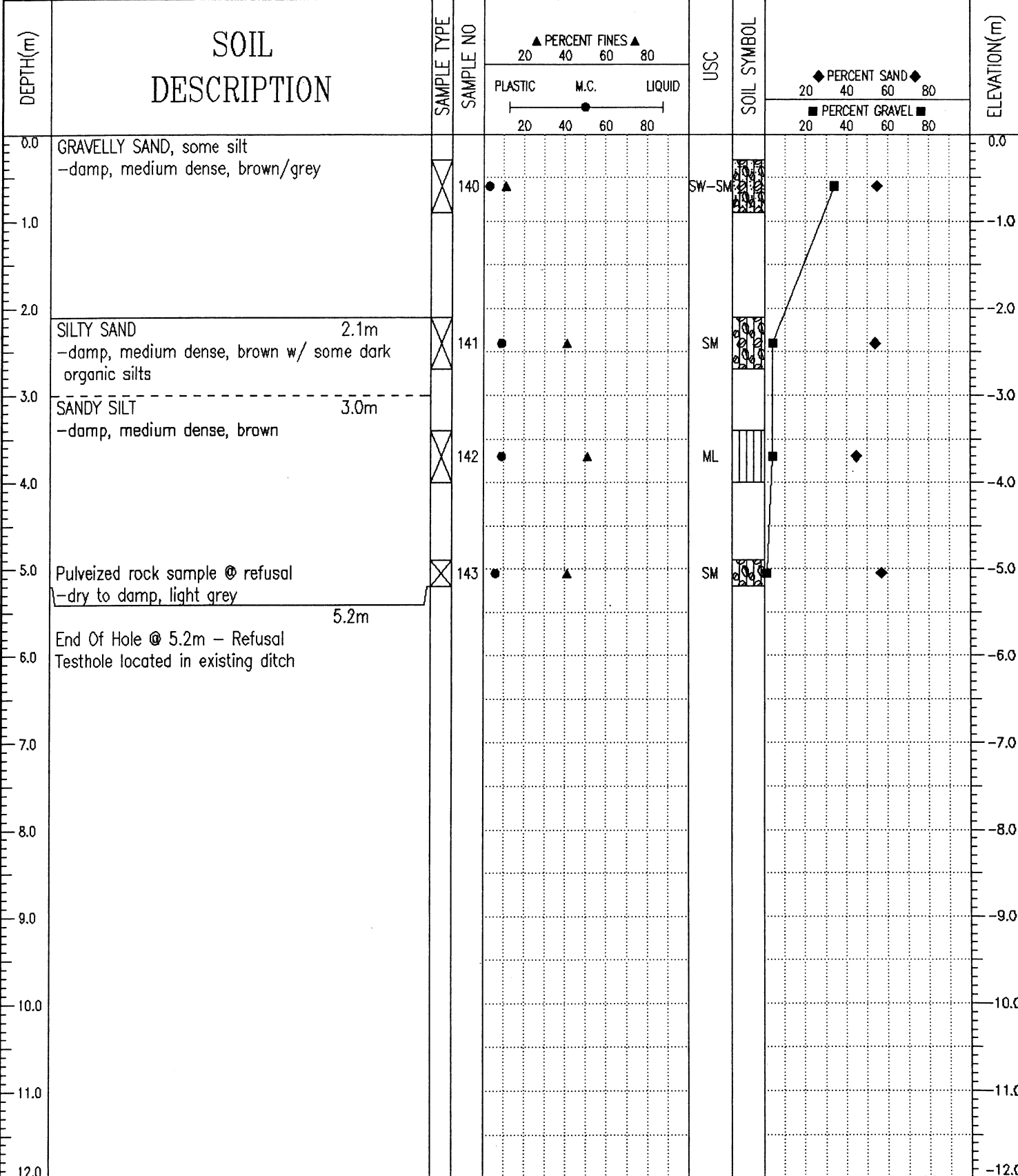
REVIEWED BY:

COMPLETE: 08/03/04

Fig. No: 26

Page 1 of 1

SAMPLE TYPE     RETURN     S.P.T.     AUGER     BULK     TUBE     CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW

REVIEWED BY:

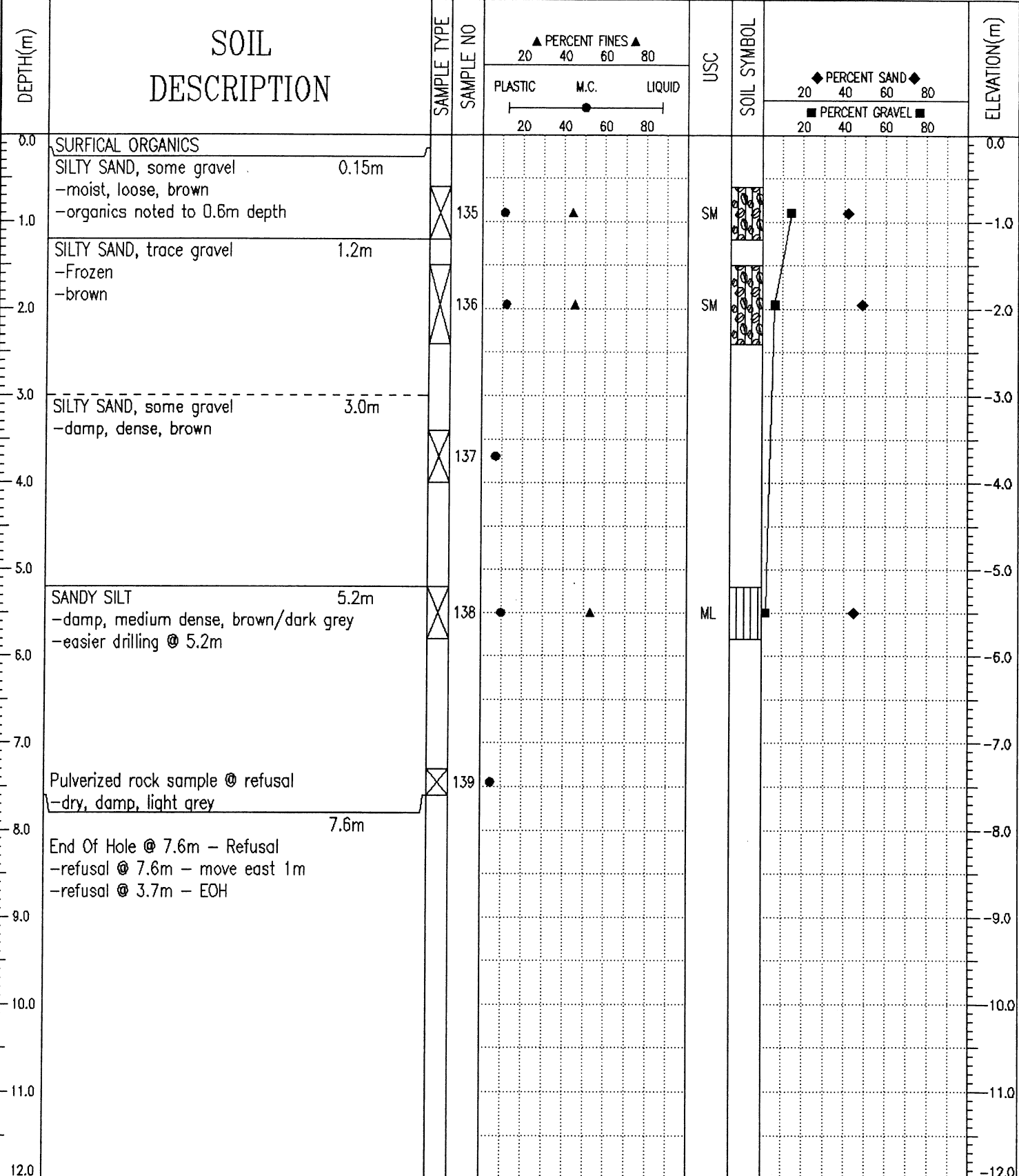
Fig. No: 25

COMPLETION DEPTH: 5.2 m

COMPLETE: 08/03/04

Page 1 of 1

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

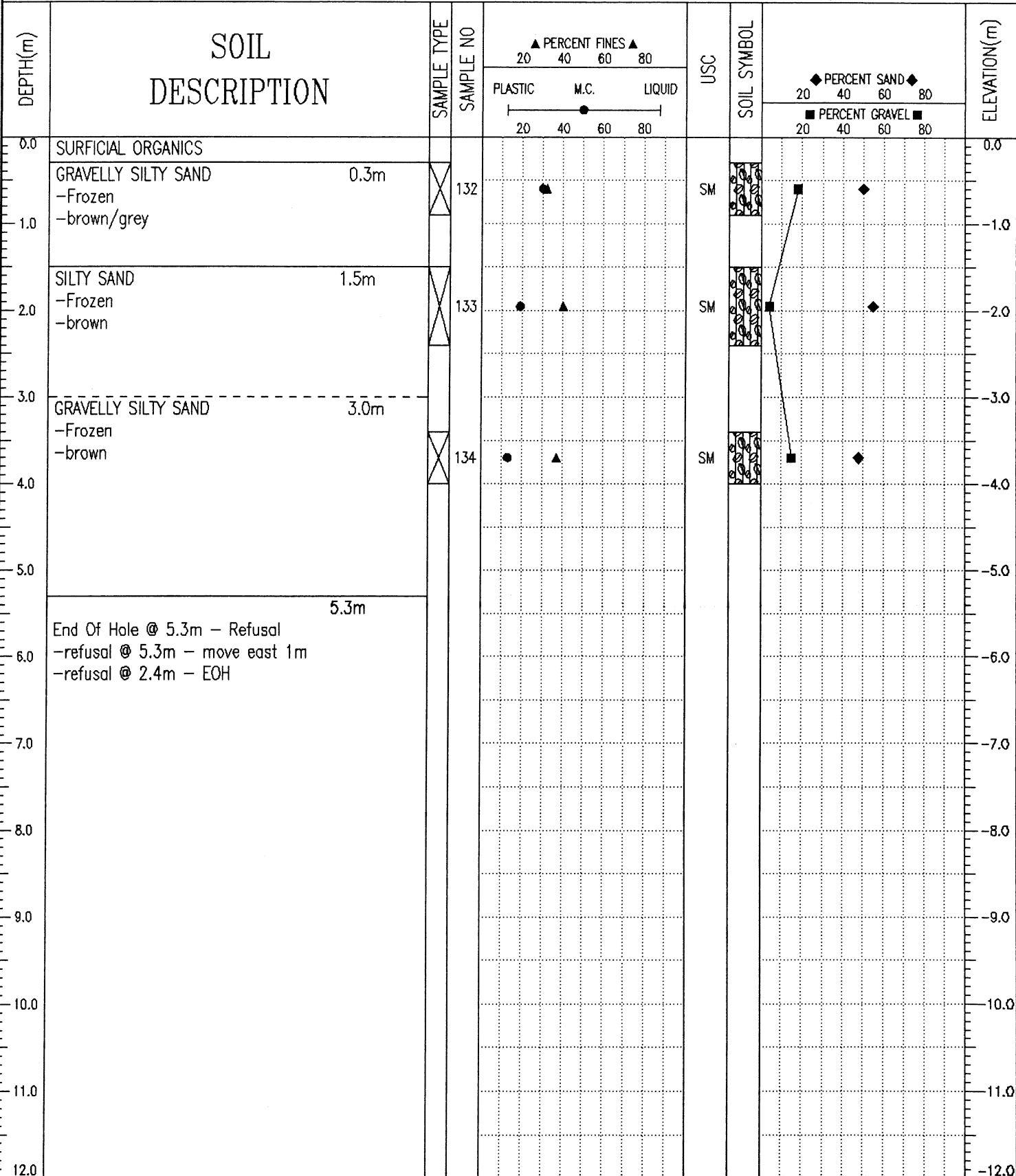
LOGGED BY: RW	COMPLETION DEPTH: 7.6 m
REVIEWED BY:	COMPLETE: 08/03/04
Fig. No: 24	Page 1 of 1

Geotechnical Services Km 1691.7 to 1717.3 Alaska Highway #1 TEST PIT NO: 30154

Donjek Services Ltd. UTM ZONE: - N6776060 E631698 PROJECT NO: 8002-318

CME75 Drill on FN60 Flextrac Nodwell ELEVATION:

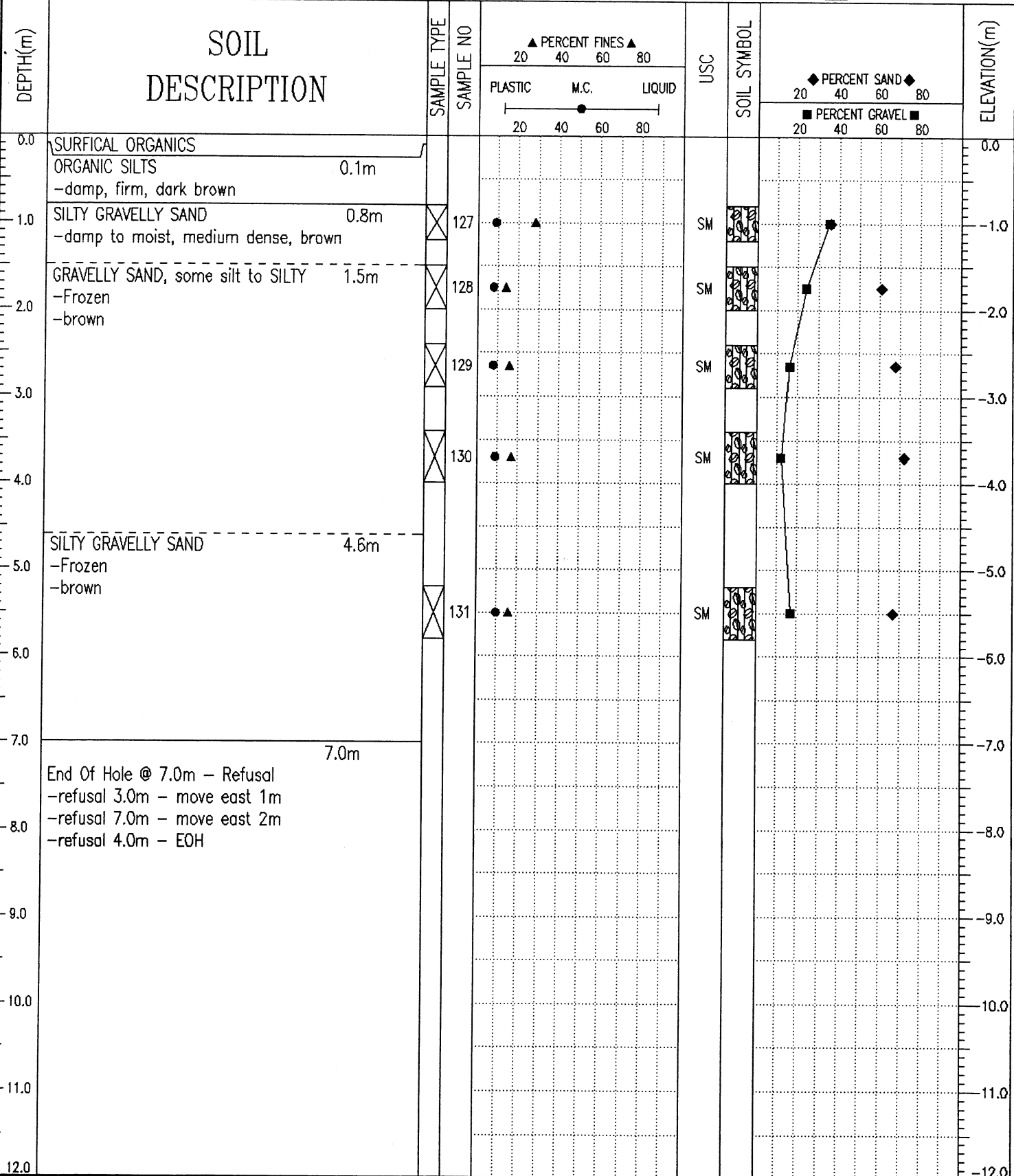
SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW  
REVIEWED BY:  
Fig. No: 23  
COMPLETION DEPTH: 5.3 m  
COMPLETE: 07/31/04  
Page 1 of 1

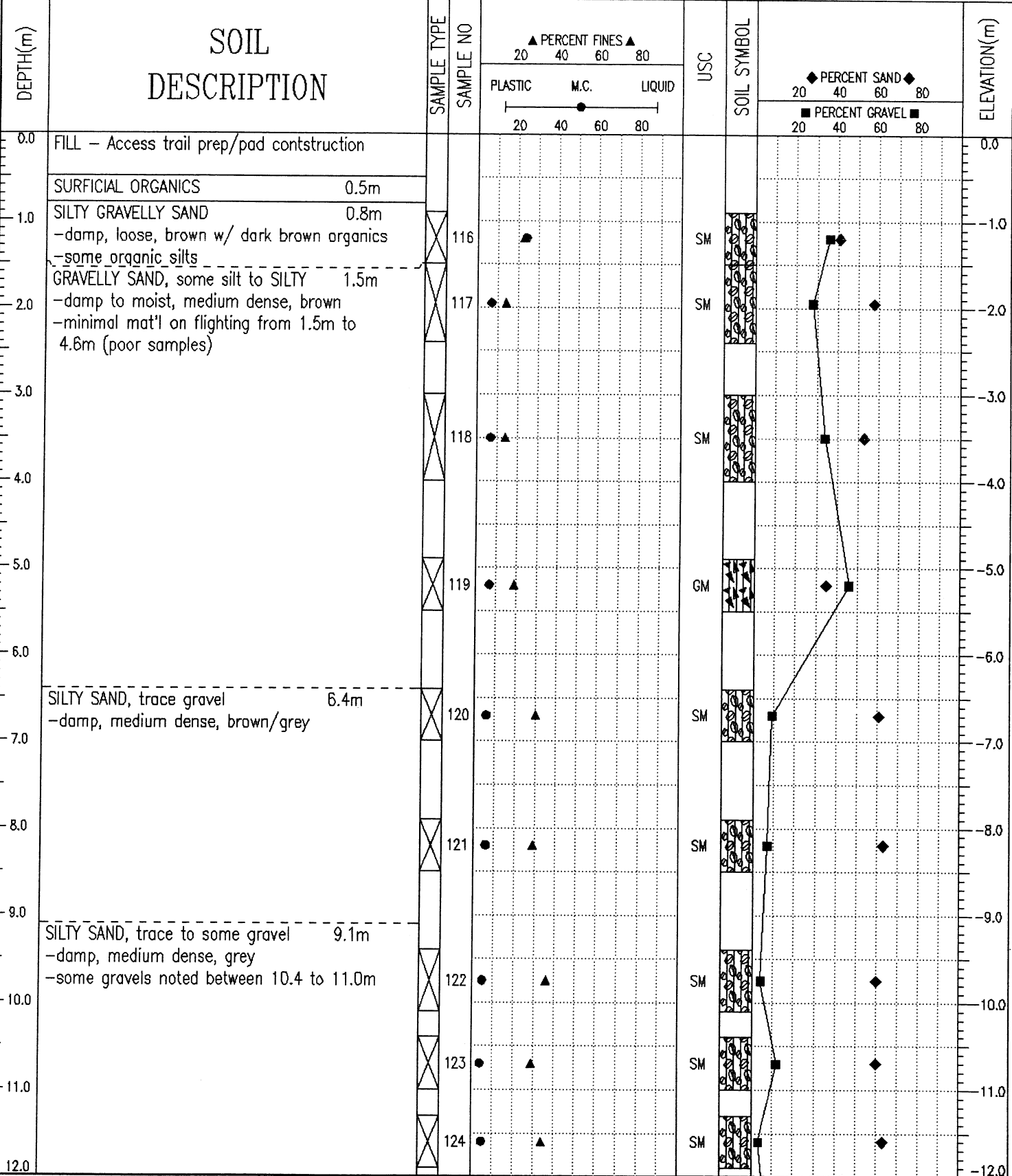
SAMPLE TYPE:  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW	COMPLETION DEPTH: 7 m
REVIEWED BY:	COMPLETE: 07/31/04
Fig. No: 22	Page 1 of 1

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



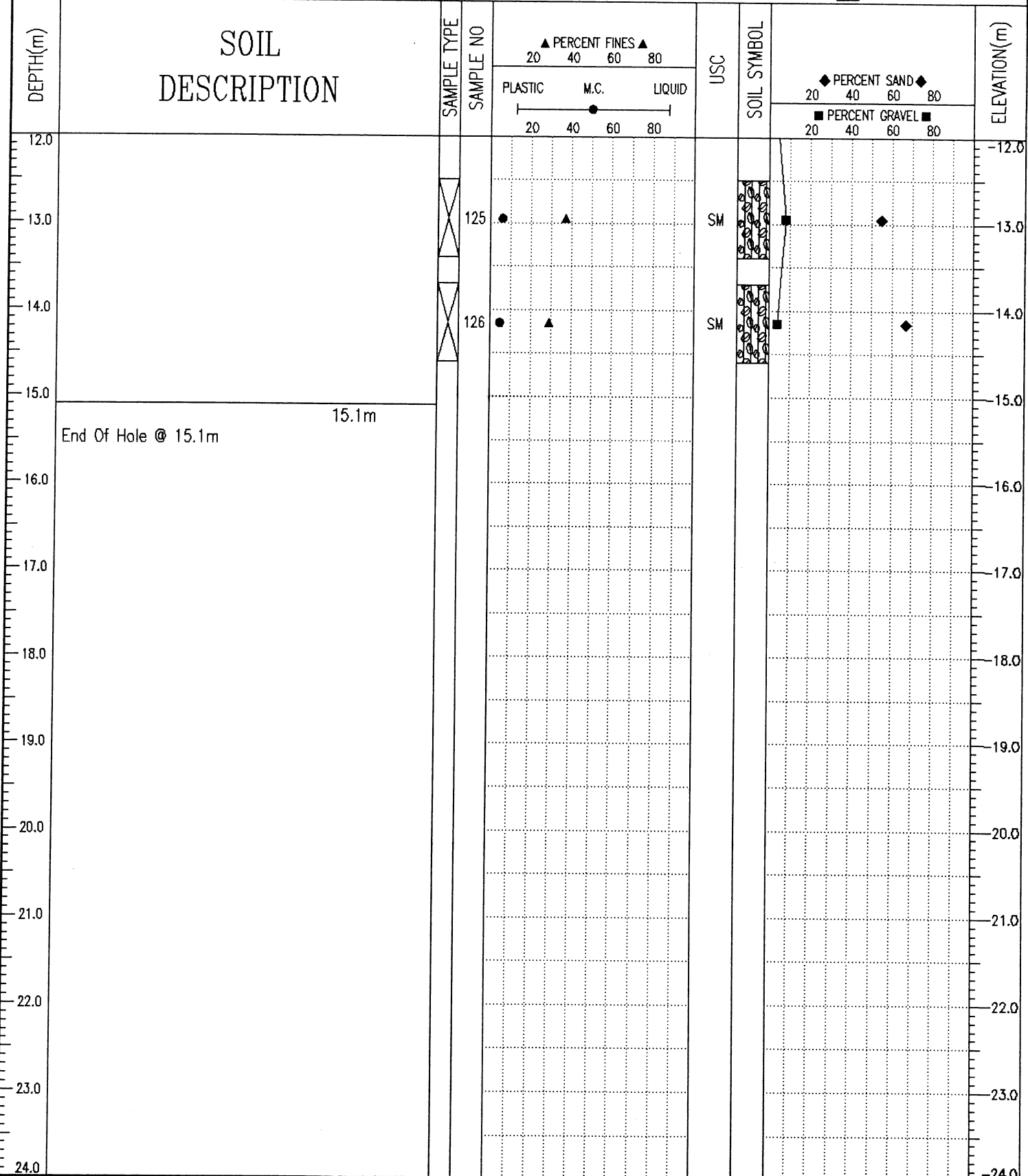
J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW  
REVIEWED BY:  
Fig. No: 21

COMPLETION DEPTH: 15.1 m  
COMPLETE: 07/31/04

Geotechnical Services Km 1691.7 to 1717.3 Alaska Highway #1 TEST PIT NO: 30156  
 Donjek Services Ltd. UTM ZONE: - N6776185 E631600 PROJECT NO: 8002-318  
 CME75 Drill on FN60 Flextrac Nodwell ELEVATION:

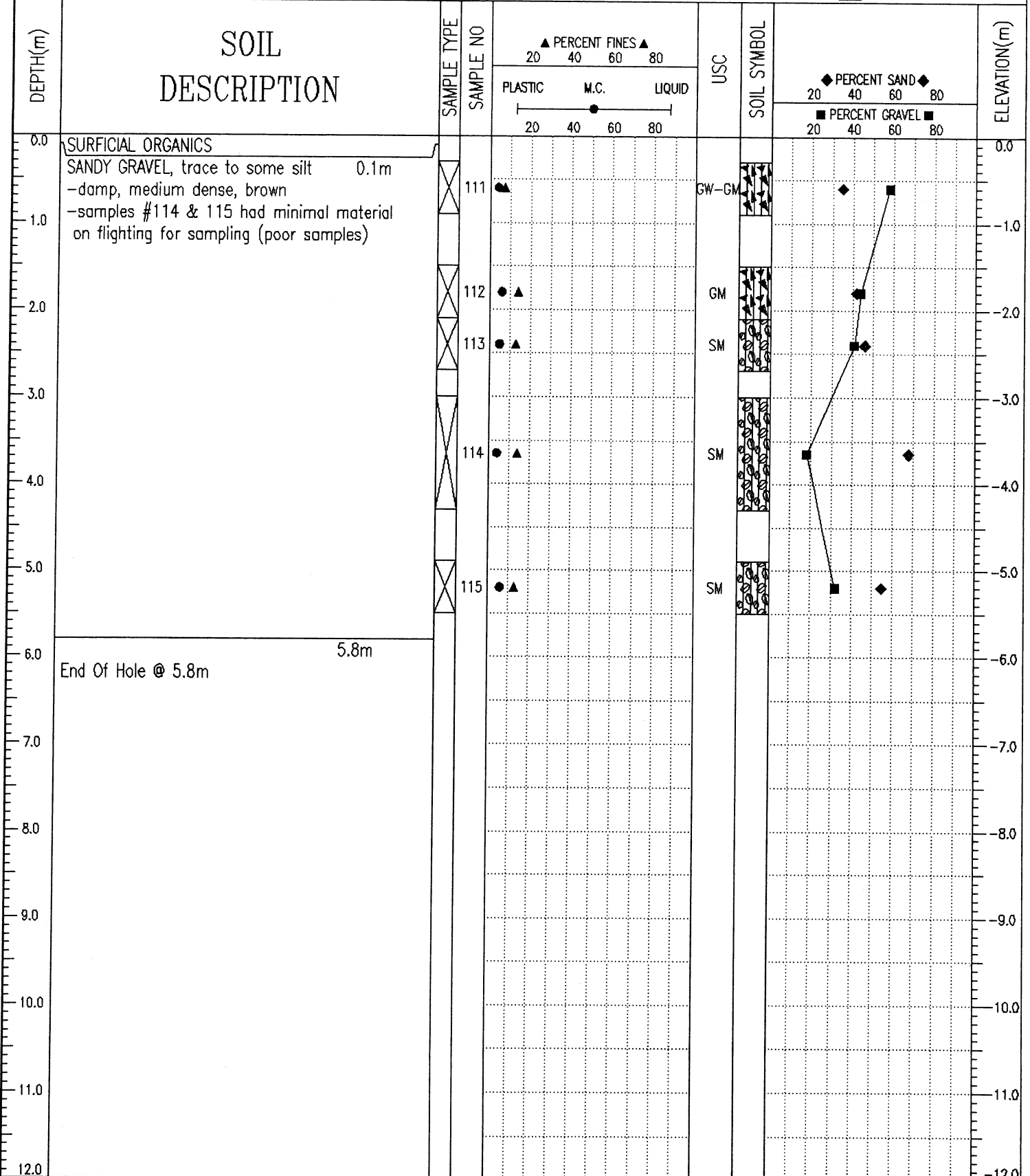
SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



J. R. Paine & Associates Ltd.  
 Whitehorse, Yukon

LOGGED BY: RW COMPLETION DEPTH: 15.1 m  
 REVIEWED BY: COMPLETE: 07/31/04  
 Fig. No: 21 Page 2 of 2

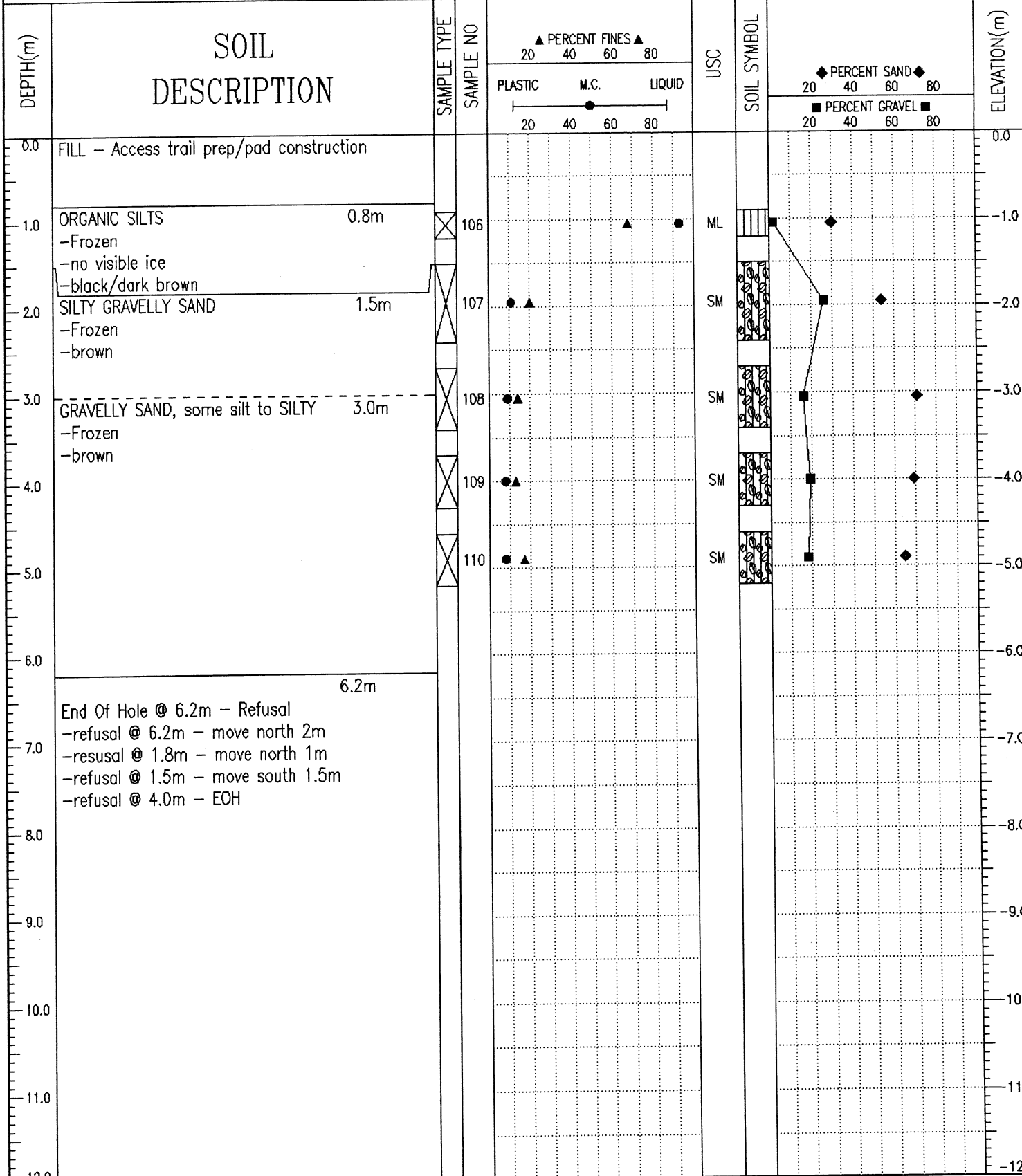
SAMPLE TYPE    RETURN    S.P.T.    AUGER    BULK    TUBE    CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW	COMPLETION DEPTH: 5.8 m
REVIEWED BY:	COMPLETE: 07/30/04
Fig. No: 20	Page 1 of 1

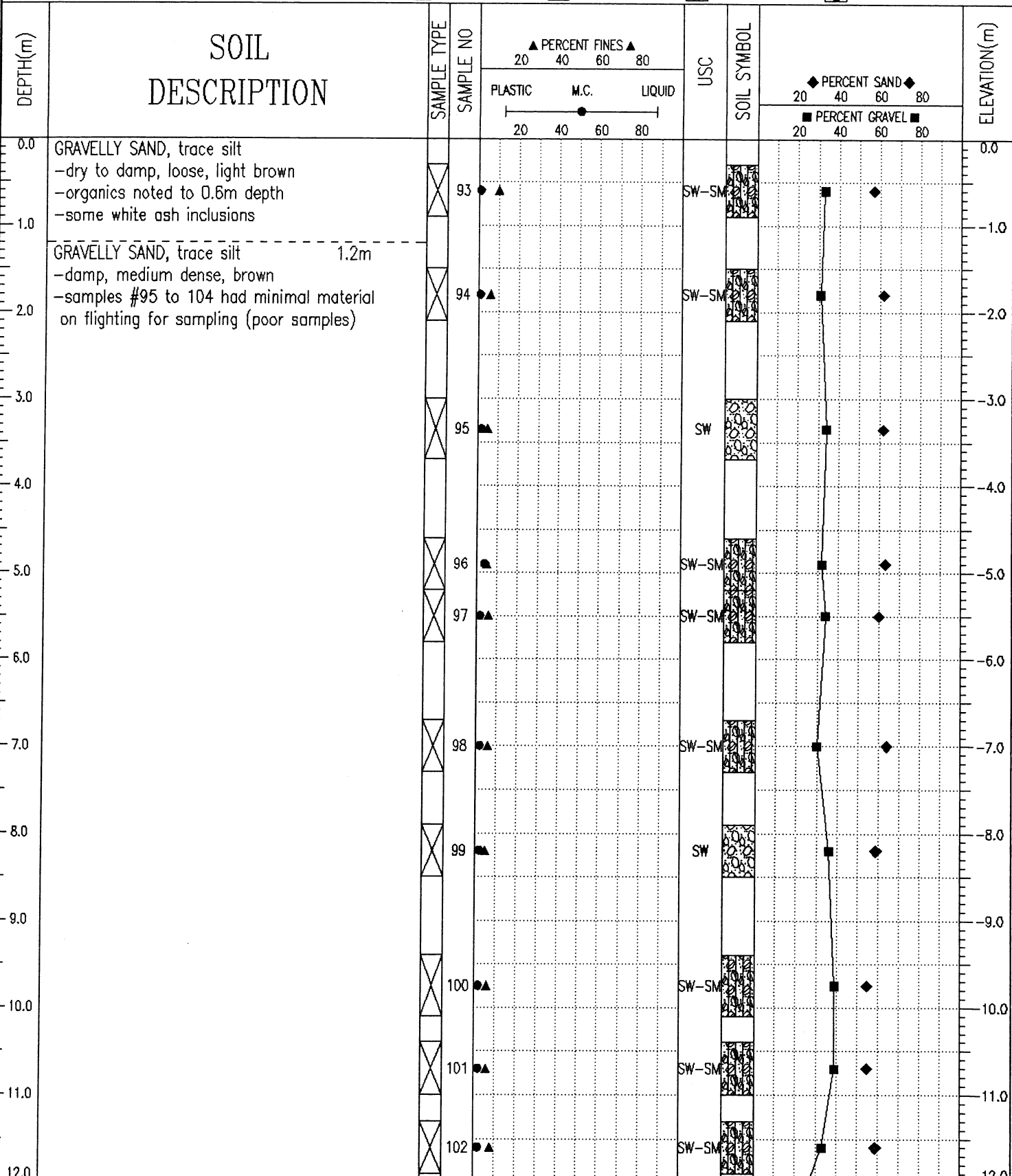
SAMPLE TYPE    RETURN    S.P.T.    AUGER    BULK    TUBE    CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW	COMPLETION DEPTH: 6.2 m
REVIEWED BY:	COMPLETE: 07/30/04
Fig. No: 19	Page 1 of 1

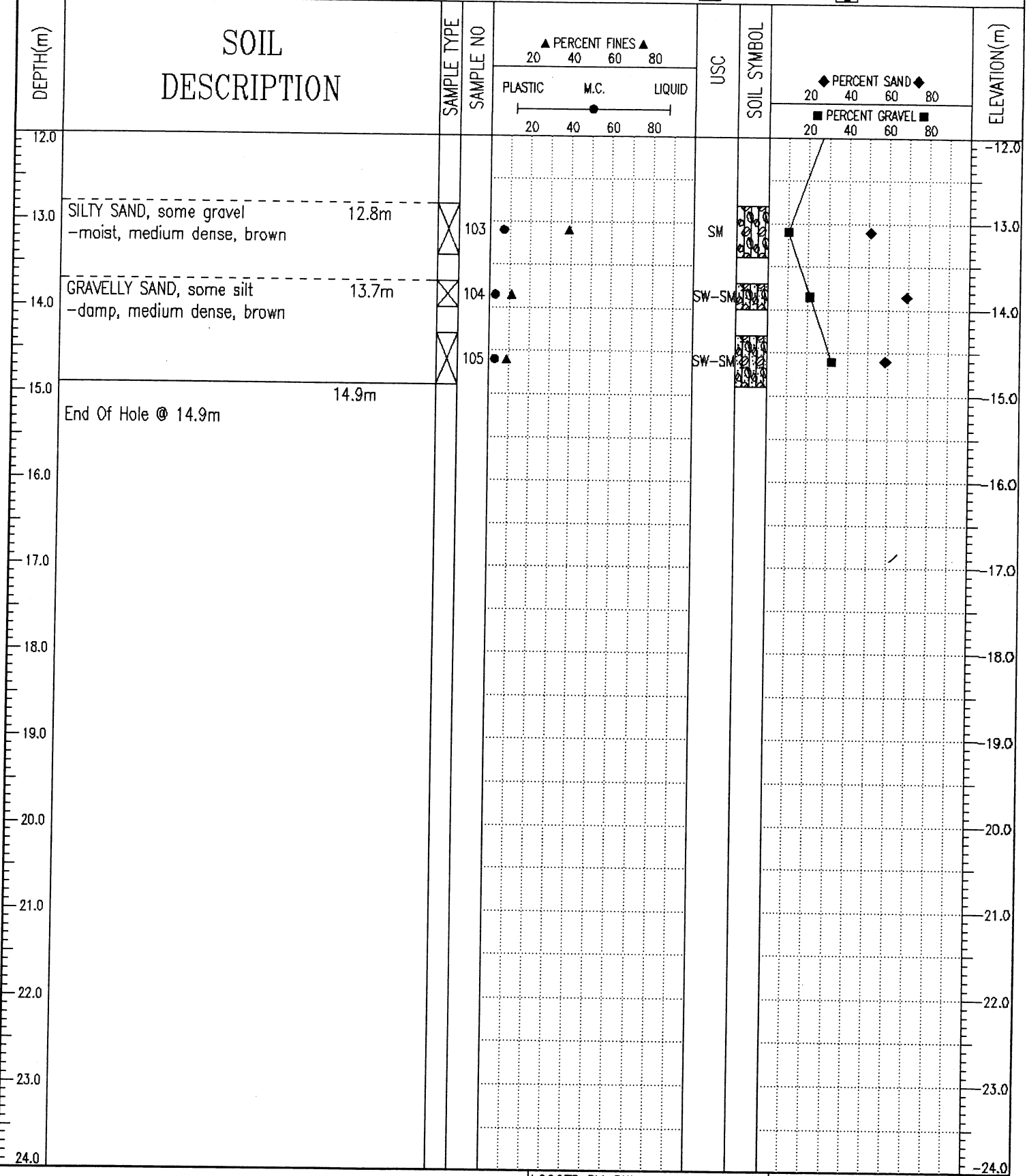
SAMPLE TYPE    RETURN    S.P.T.    AUGER    BULK    TUBE    CORE



J. R. Paine & Associates Ltd.  
 Whitehorse, Yukon

LOGGED BY: RW	COMPLETION DEPTH: 14.9 m
REVIEWED BY:	COMPLETE: 07/30/04
Fig. No: 18	Page 1 of 2

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

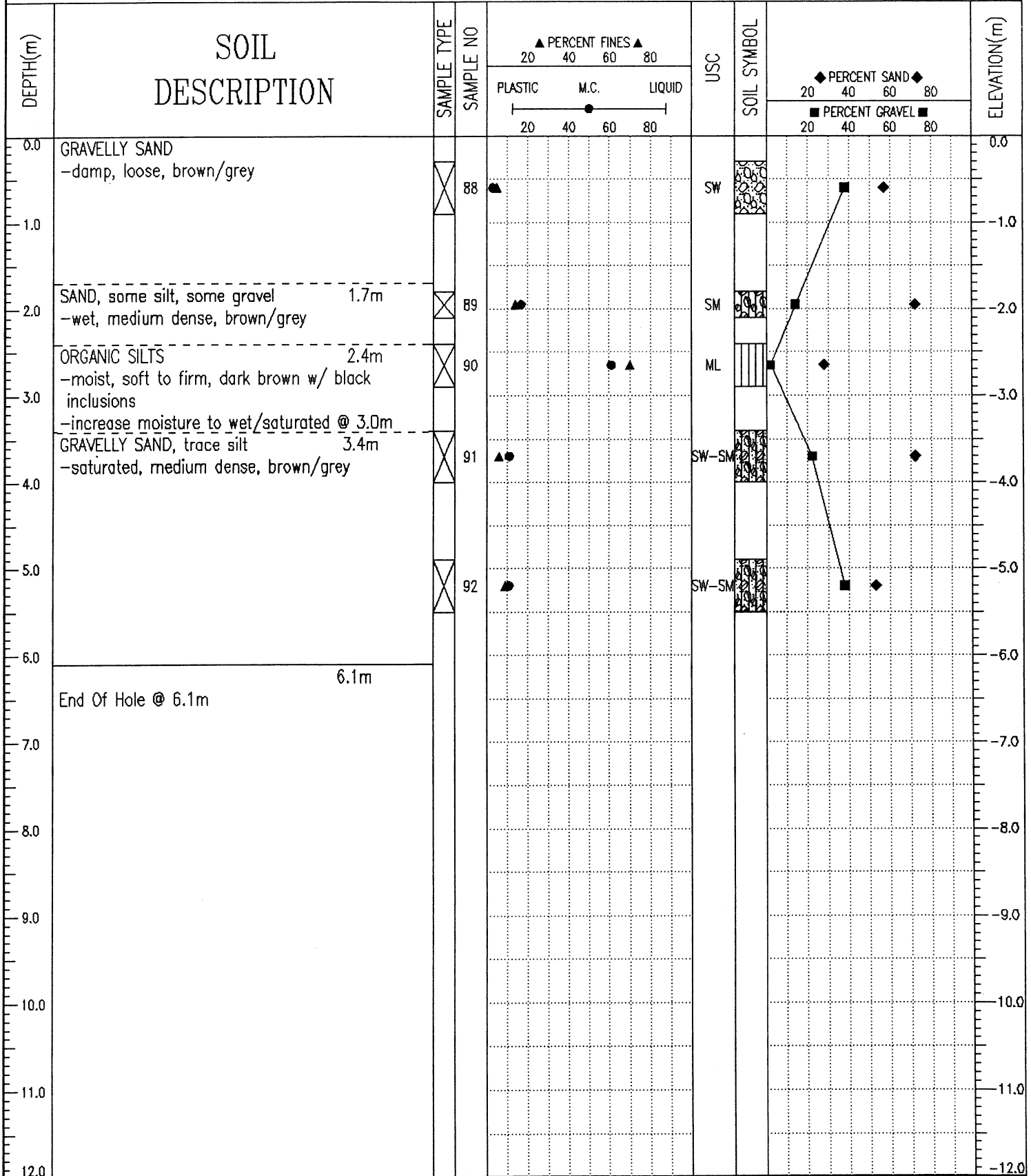


J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW  
REVIEWED BY:  
Fig. No: 18

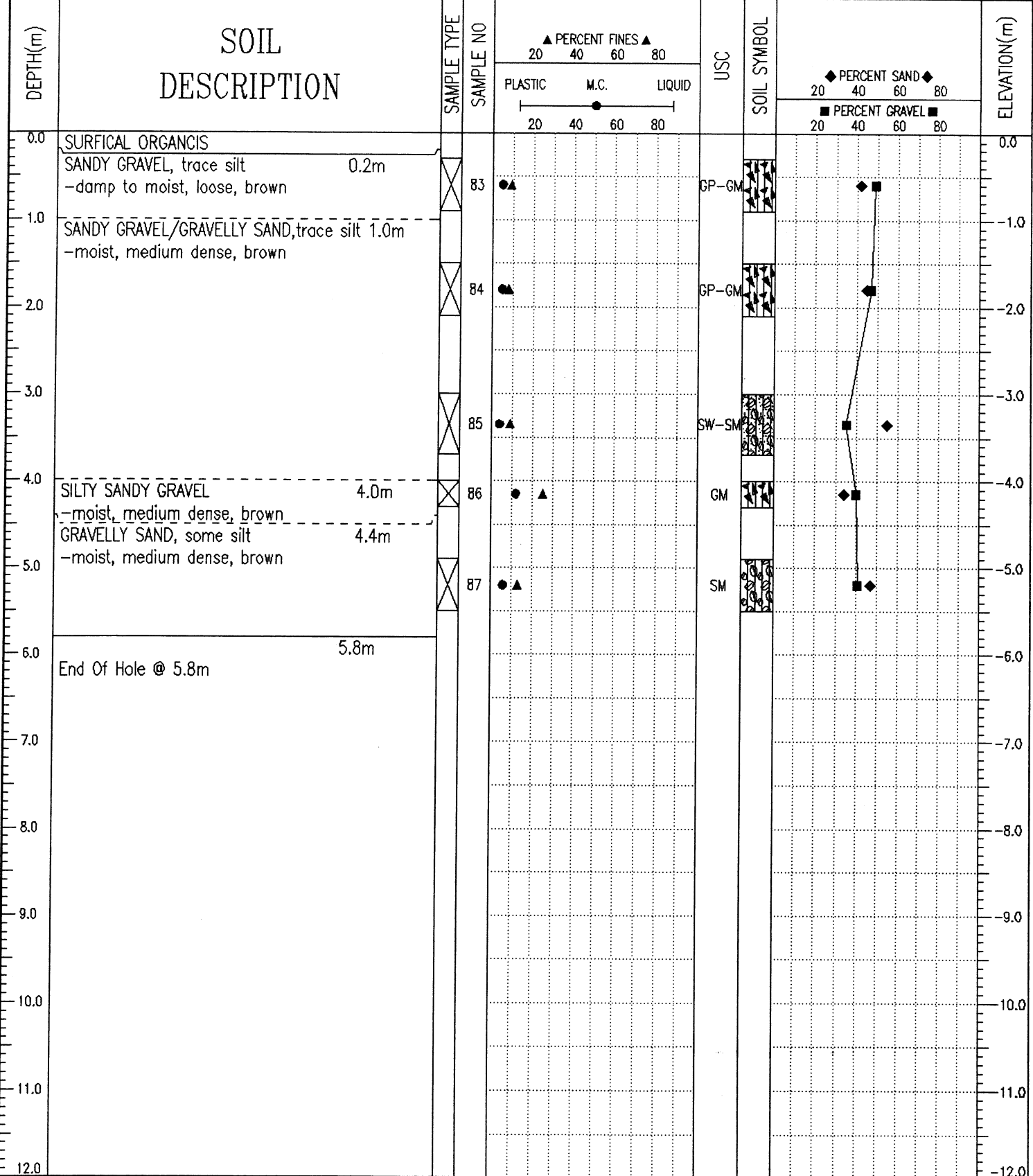
COMPLETION DEPTH: 14.9 m  
COMPLETE: 07/30/04

SAMPLE TYPE     RETURN     S.P.T.     AUGER     BULK     TUBE     CORE



05/02/09 11:55AM (YIG\_HHMS)

SAMPLE TYPE    RETURN    S.P.T.    AUGER    BULK    TUBE    CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

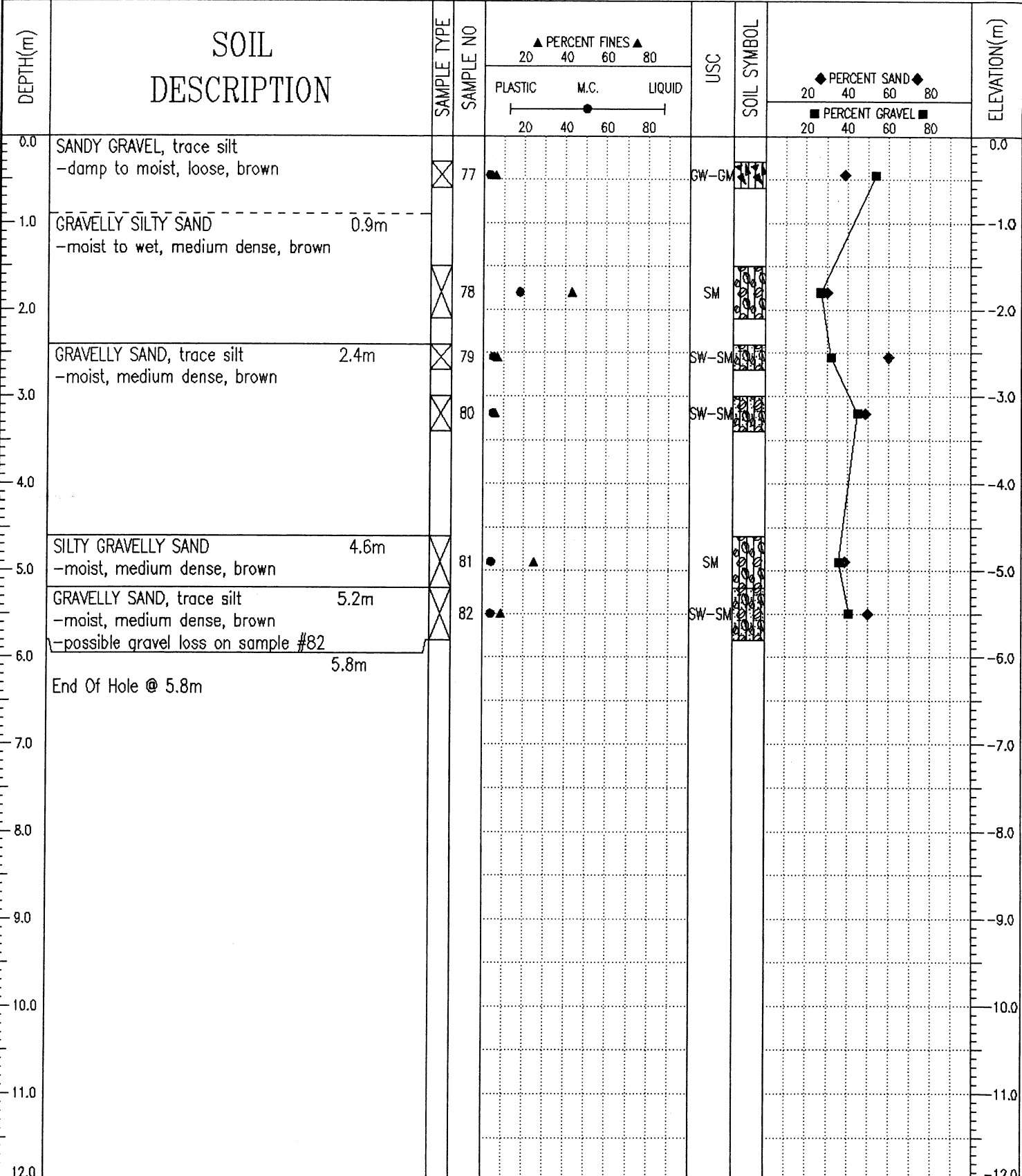
LOGGED BY: RW	COMPLETION DEPTH: 5.8 m
REVIEWED BY:	COMPLETE: 07/29/04
Fig. No: 16	Page 1 of 1

Geotechnical Services Km 1691.7 to 1717.3 Alaska Highway #1 TEST PIT NO: 30162

Donjek Services Ltd. UTM ZONE: - N6776914 E631538 PROJECT NO: 8002-318

CME75 Drill on FN60 Flextrac Nodwell ELEVATION:

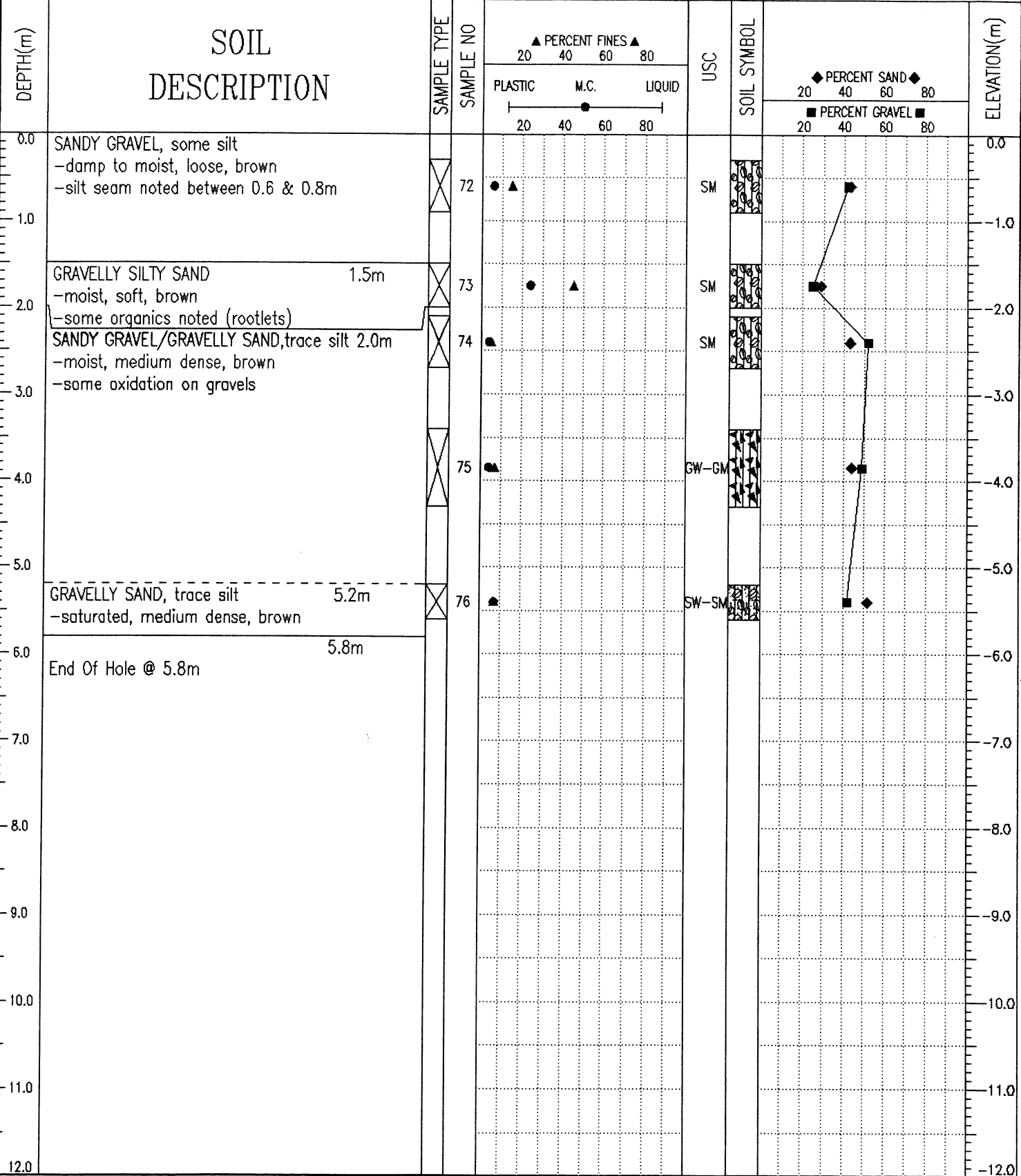
SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW  
REVIEWED BY:  
Fig. No: 15  
COMPLETION DEPTH: 5.8 m  
COMPLETE: 07/29/04  
Page 1 of 1

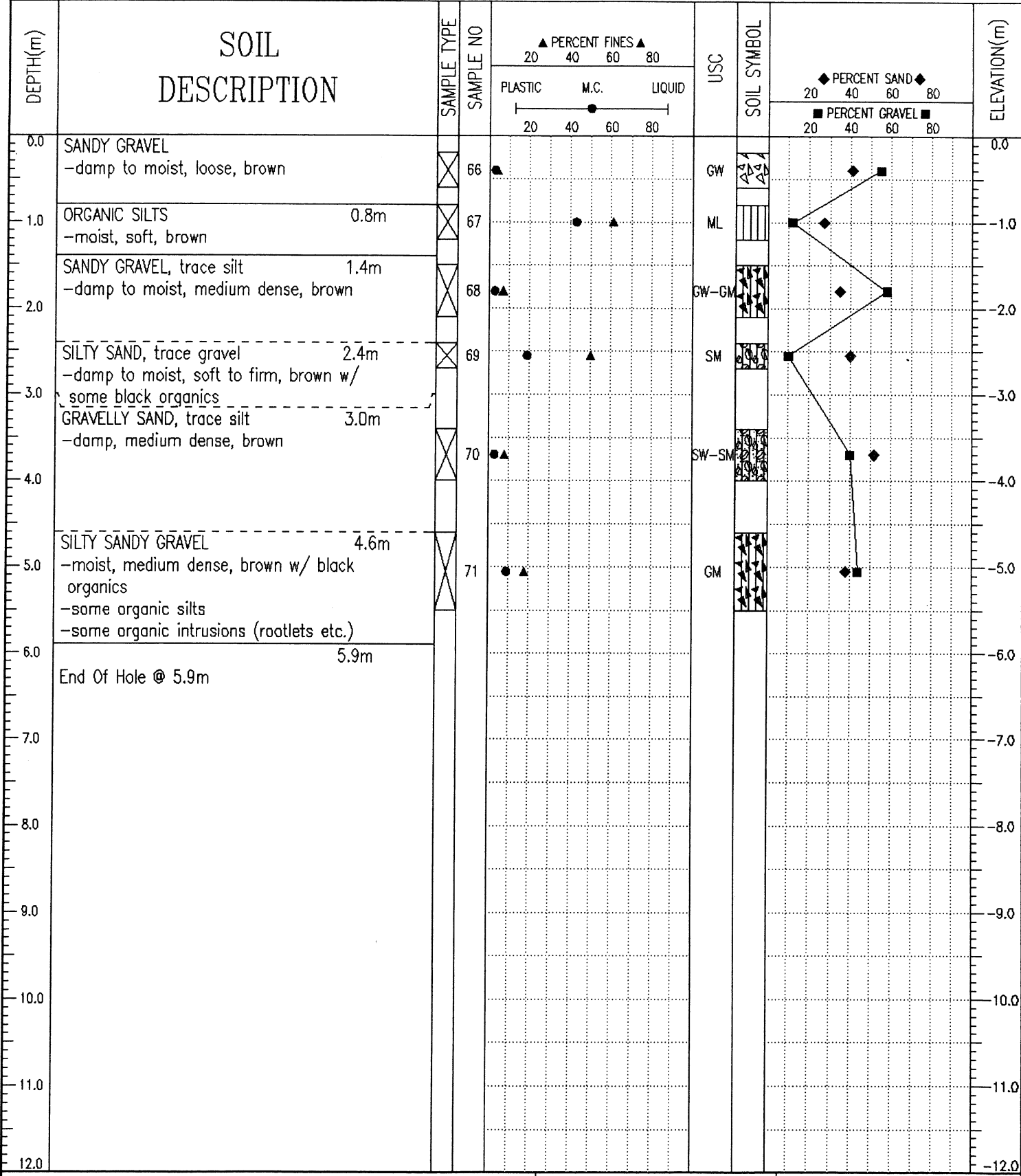
SAMPLE TYPE    RETURN    S.P.T.    AUGER    BULK    TUBE    CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW	COMPLETION DEPTH: 5.8 m
REVIEWED BY:	COMPLETE: 07/29/04
Fig. No: 14	Page 1 of 1

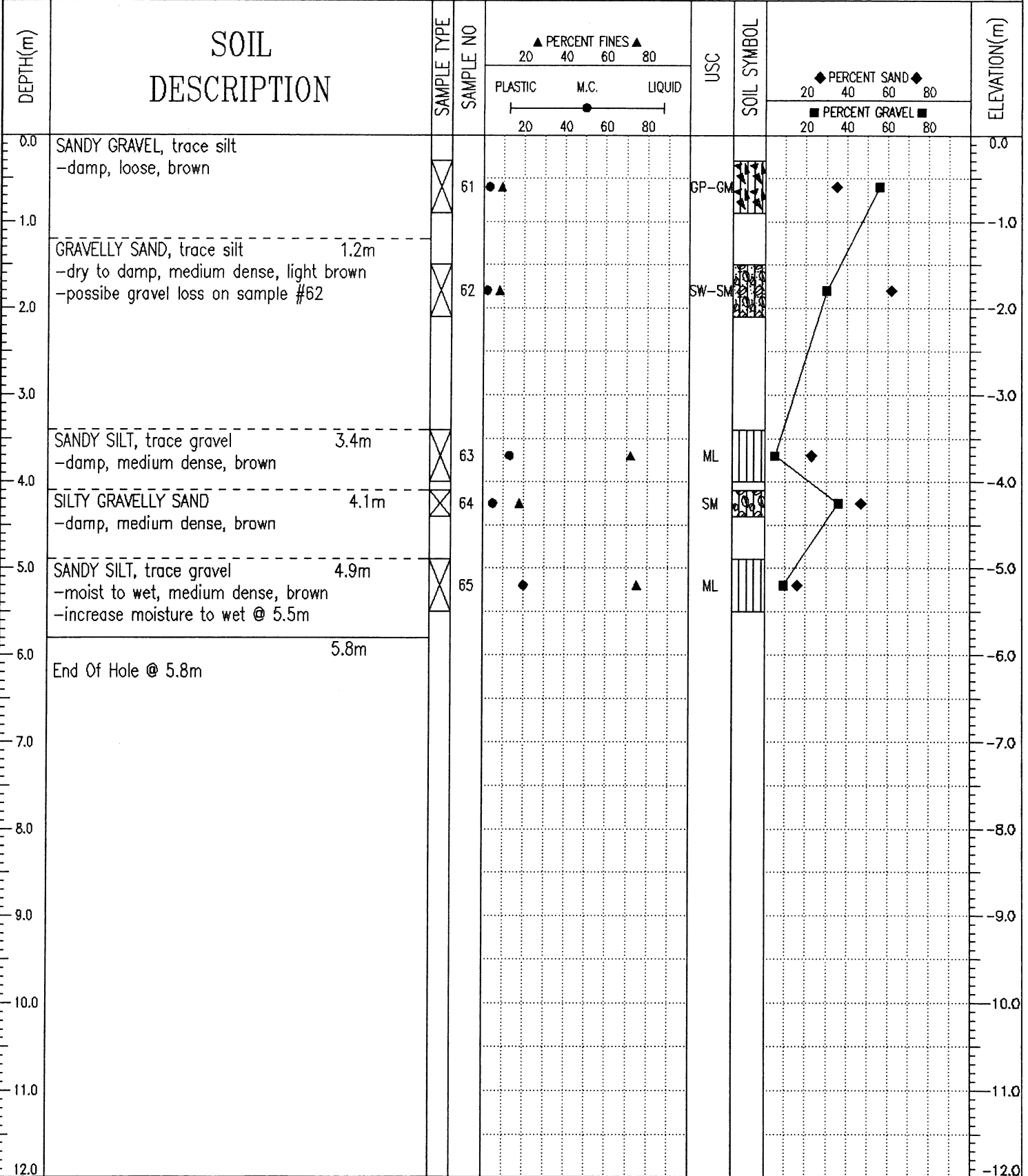
SAMPLE TYPE    RETURN    S.P.T.    AUGER    BULK    TUBE    CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW	COMPLETION DEPTH: 5.9 m
REVIEWED BY:	COMPLETE: 07/29/04
Fig. No: 13	Page 1 of 1

SAMPLE TYPE     RETURN     S.P.T.     AUGER     BULK     TUBE     CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW

REVIEWED BY:

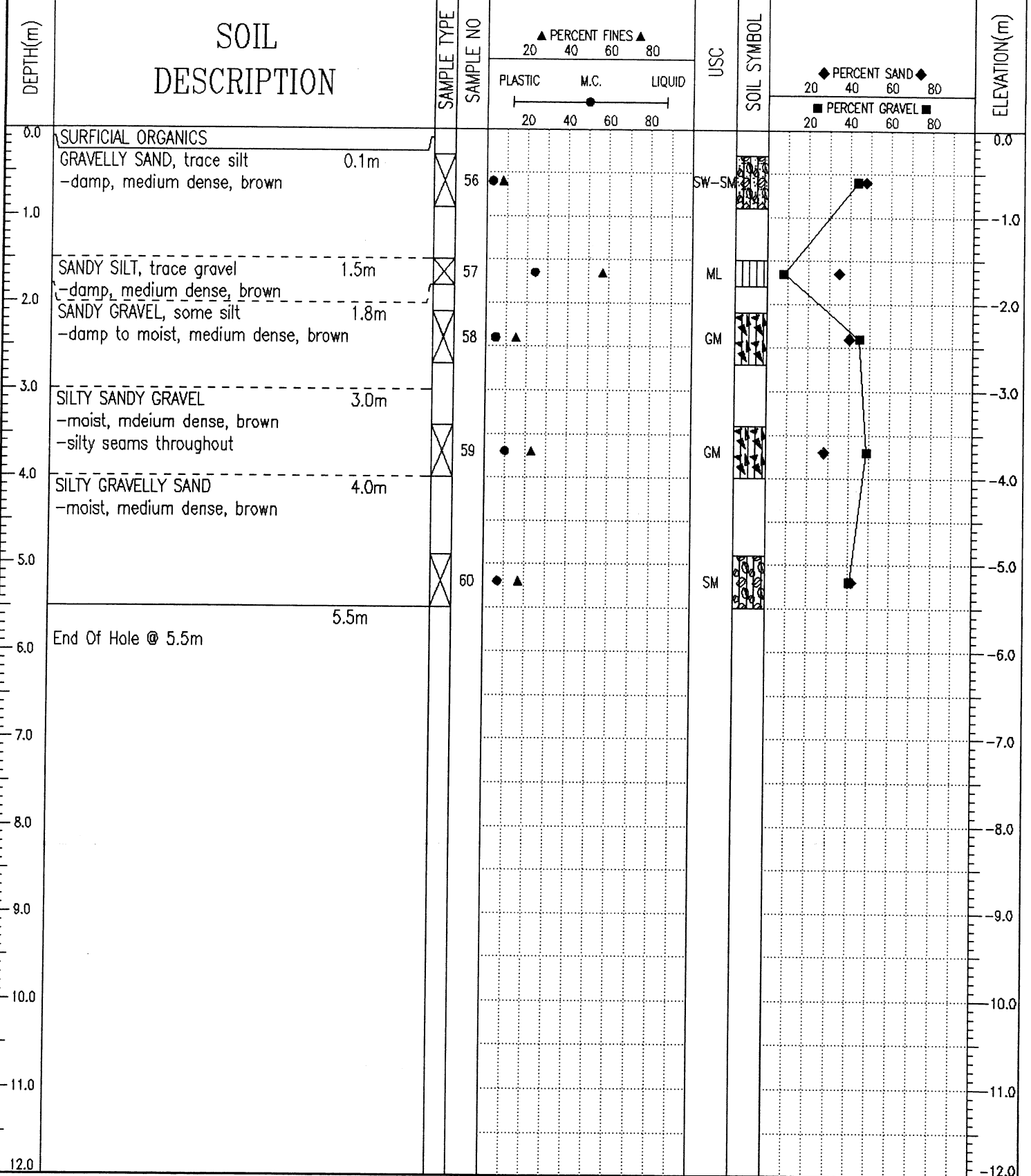
Fig. No: 12

COMPLETION DEPTH: 5.8 m

COMPLETE: 07/29/04

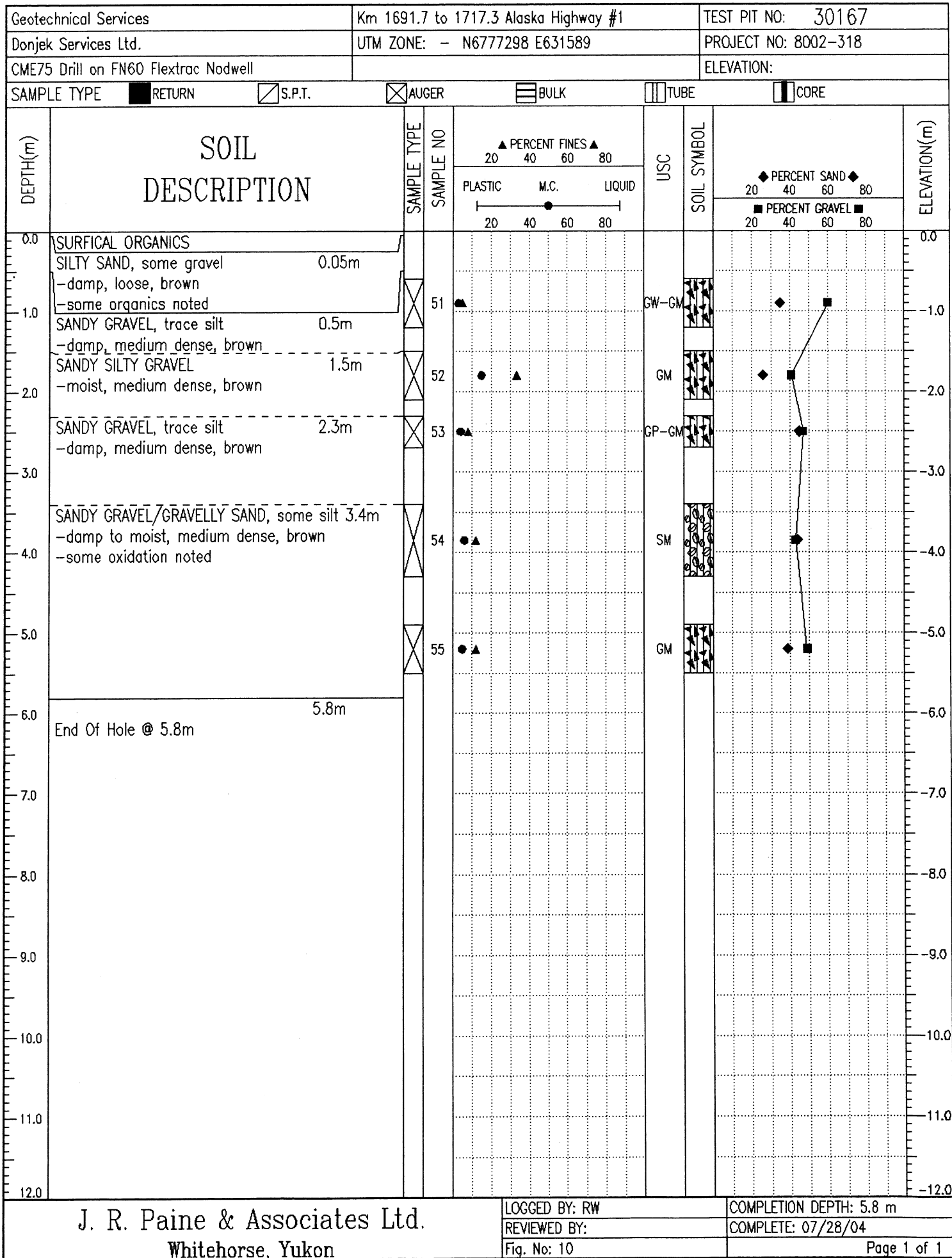
Page 1 of 1

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

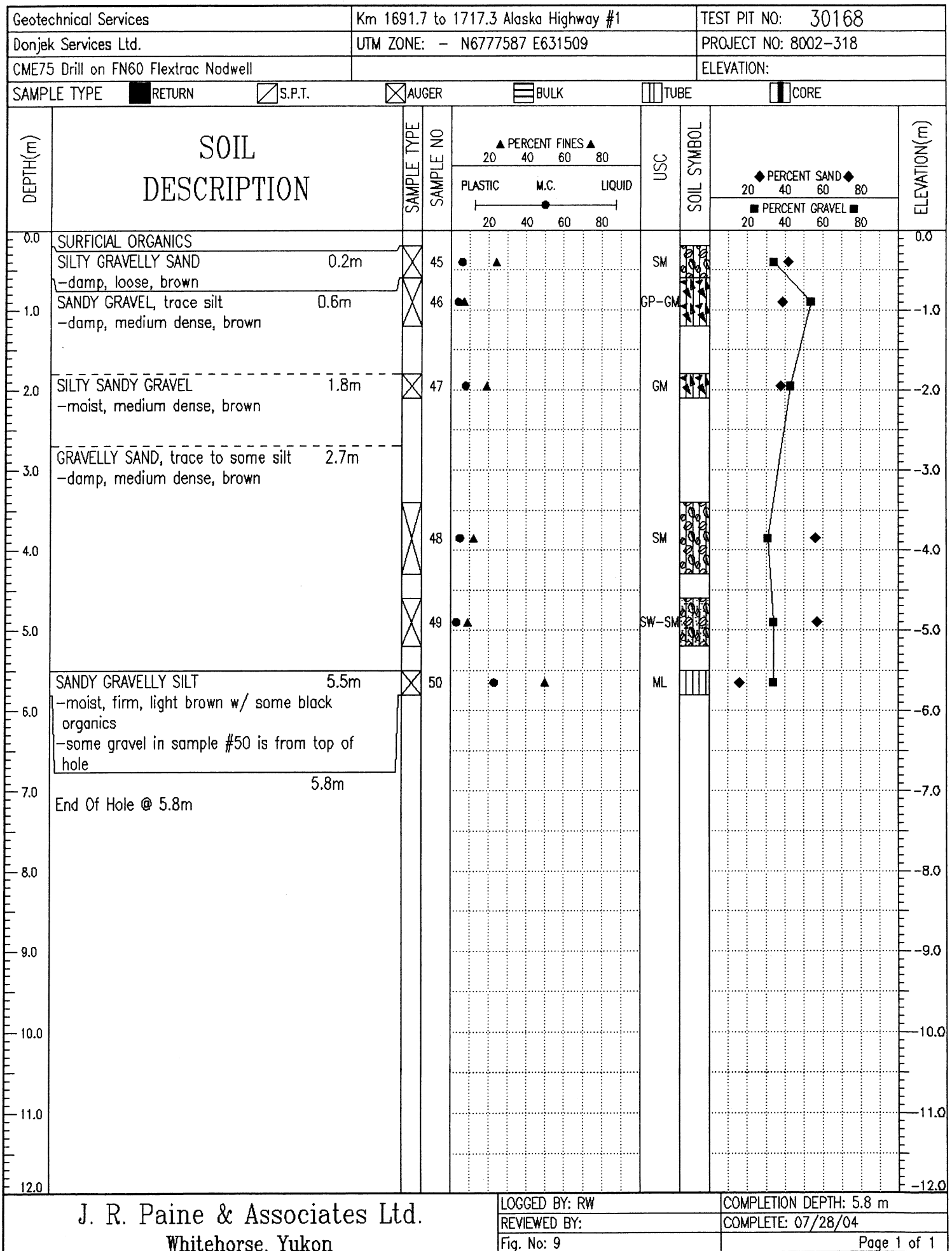
LOGGED BY: RW	COMPLETION DEPTH: 5.5 m
REVIEWED BY:	COMPLETE: 07/28/04
Fig. No: 11	Page 1 of 1



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW  
REVIEWED BY:  
Fig. No: 10

COMPLETION DEPTH: 5.8 m  
COMPLETE: 07/28/04



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

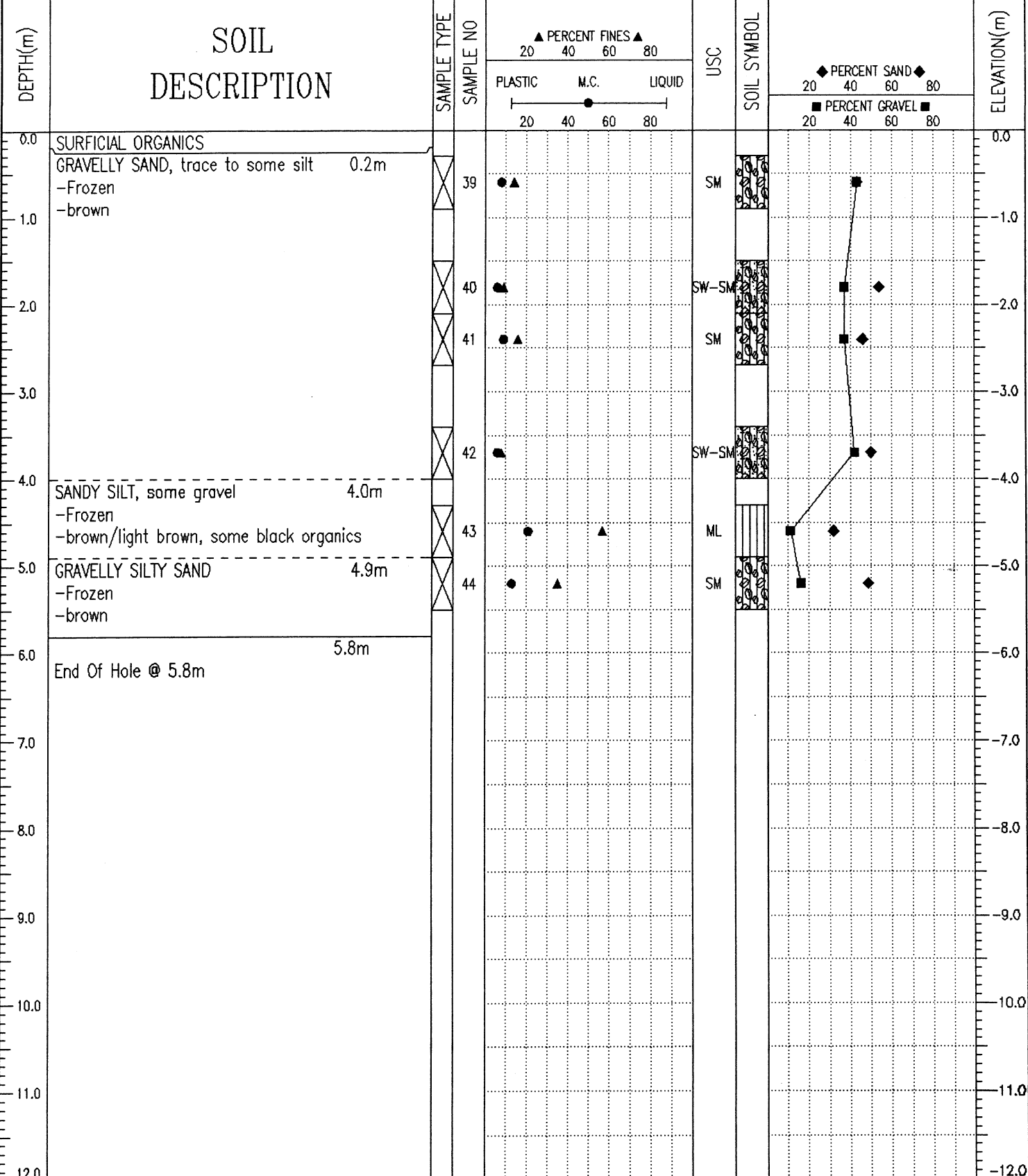
LOGGED BY: RW	COMPLETION DEPTH: 5.8 m
REVIEWED BY:	COMPLETE: 07/28/04
Fig. No: 9	Page 1 of 1

Geotechnical Services Km 1691.7 to 1717.3 Alaska Highway #1 TEST PIT NO: 30169

Donjek Services Ltd. UTM ZONE: - N6777708 E631458 PROJECT NO: 8002-318

CME75 Drill on FN60 Flextrac Nodwell ELEVATION:

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

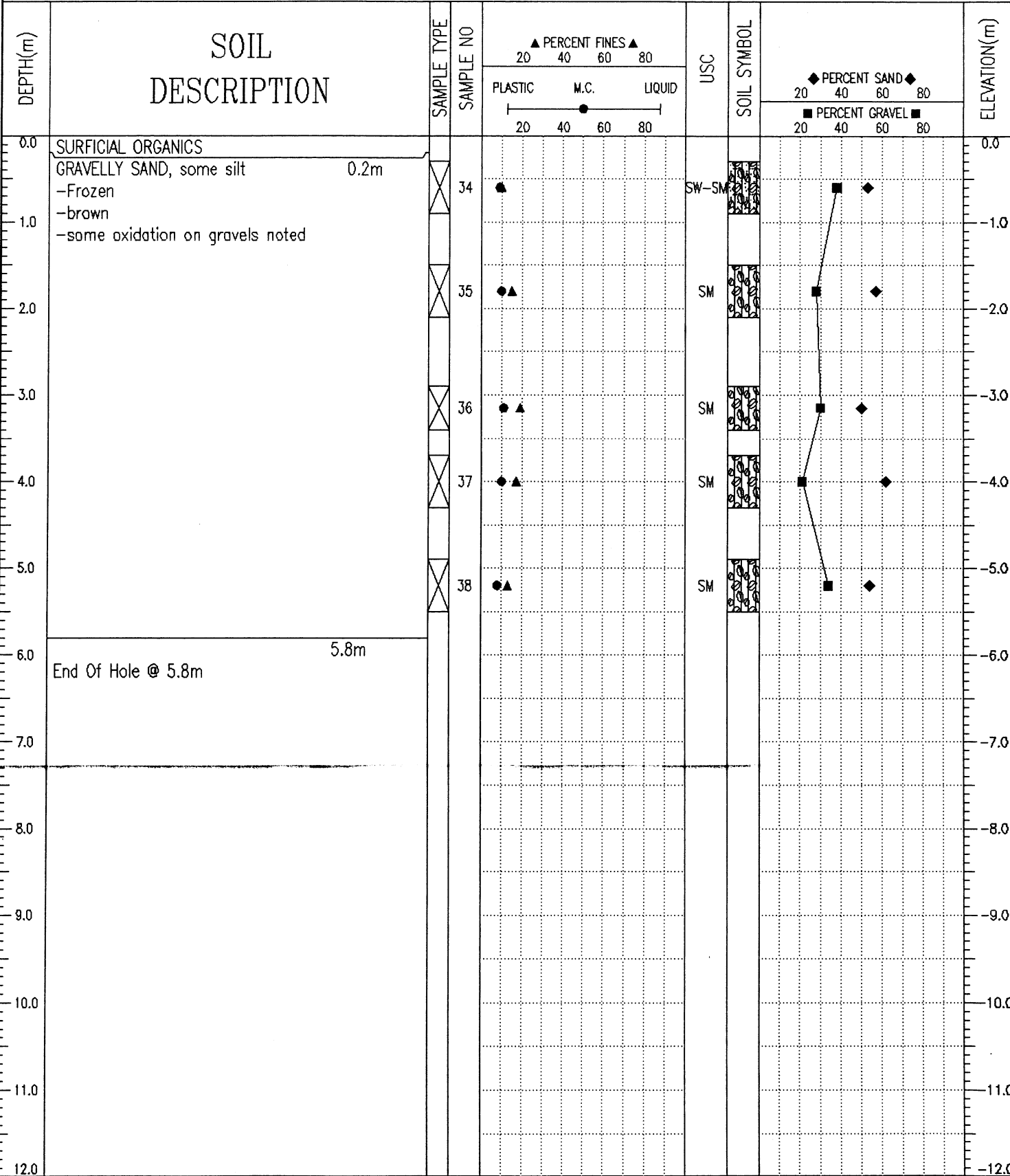


J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW  
REVIEWED BY:  
Fig. No: 8  
COMPLETION DEPTH: 5.8 m  
COMPLETE: 07/28/04  
Page 1 of 1

Geotechnical Services	Km 1691.7 to 1717.3 Alaska Highway #1	TEST PIT NO: 30170
Donjek Services Ltd.	UTM ZONE: - N6777845 E631414	PROJECT NO: 8002-318
CME75 Drill on FN60 Flextrac Nodwell		ELEVATION:

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



J. R. Paine & Associates Ltd.  
 Whitehorse, Yukon

LOGGED BY: RW

REVIEWED BY:

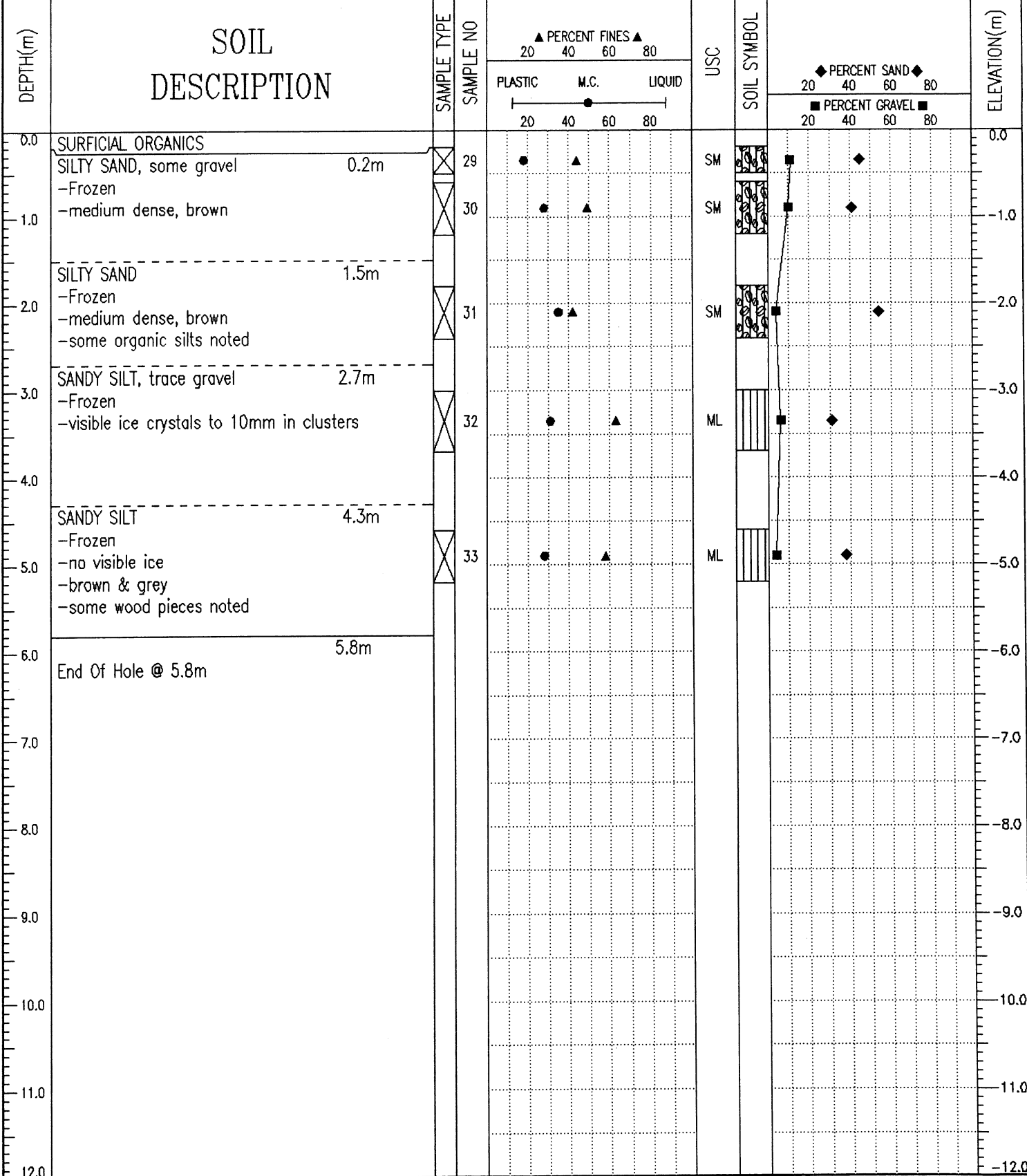
Fig. No: 7

COMPLETION DEPTH: 5.8 m

COMPLETE: 07/28/04

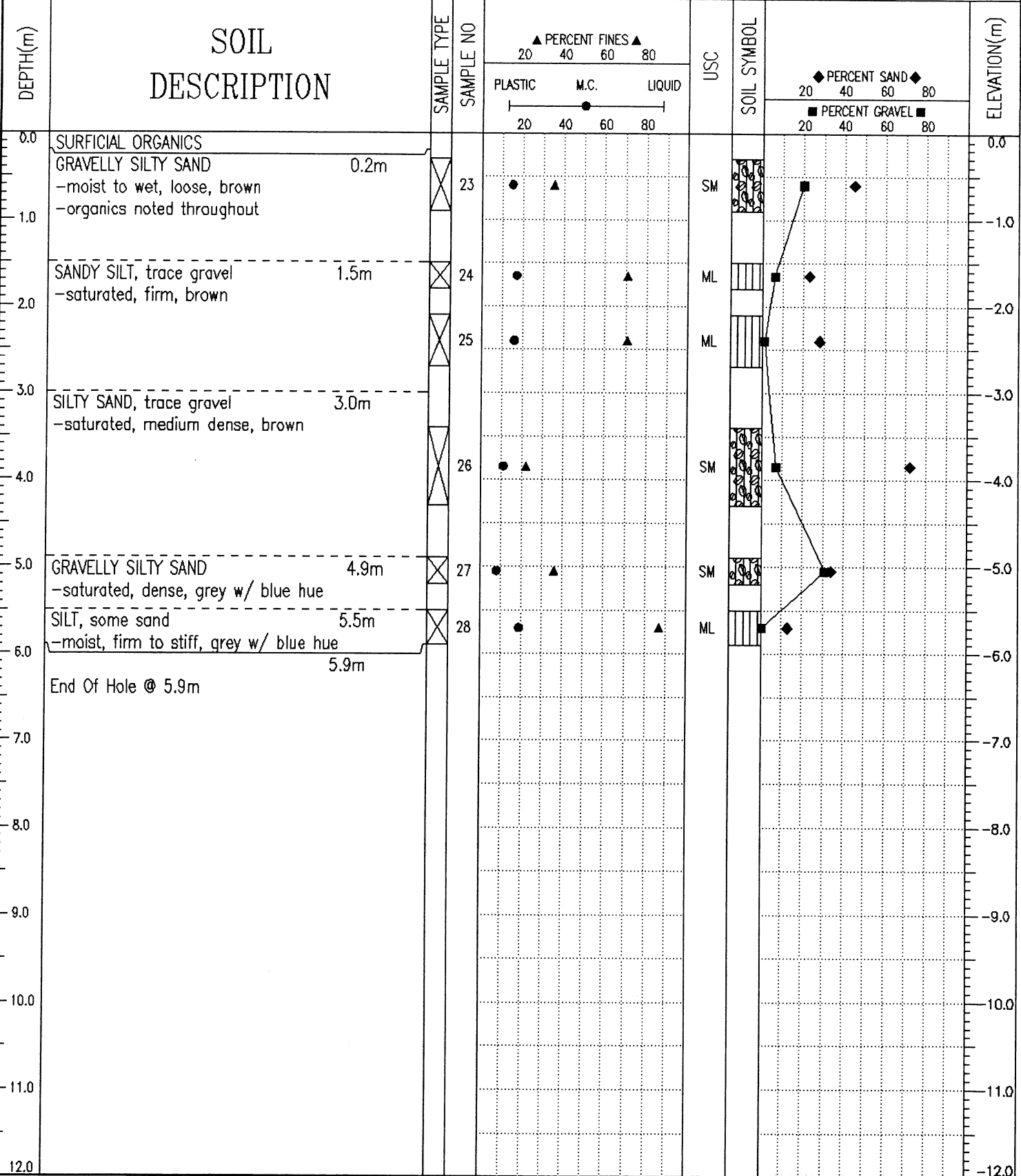
Page 1 of 1

SAMPLE TYPE     RETURN     S.P.T.     AUGER     BULK     TUBE     CORE



<b>J. R. Paine &amp; Associates Ltd.</b> Whitehorse, Yukon	LOGGED BY: RW REVIEWED BY: Fig. No: 6	COMPLETION DEPTH: 5.8 m COMPLETE: 07/28/04
---	---	---

SAMPLE TYPE    RETURN    S.P.T.    AUGER    BULK    TUBE    CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW

REVIEWED BY:

Fig. No: 5

COMPLETION DEPTH: 5.9 m

COMPLETE: 07/28/04

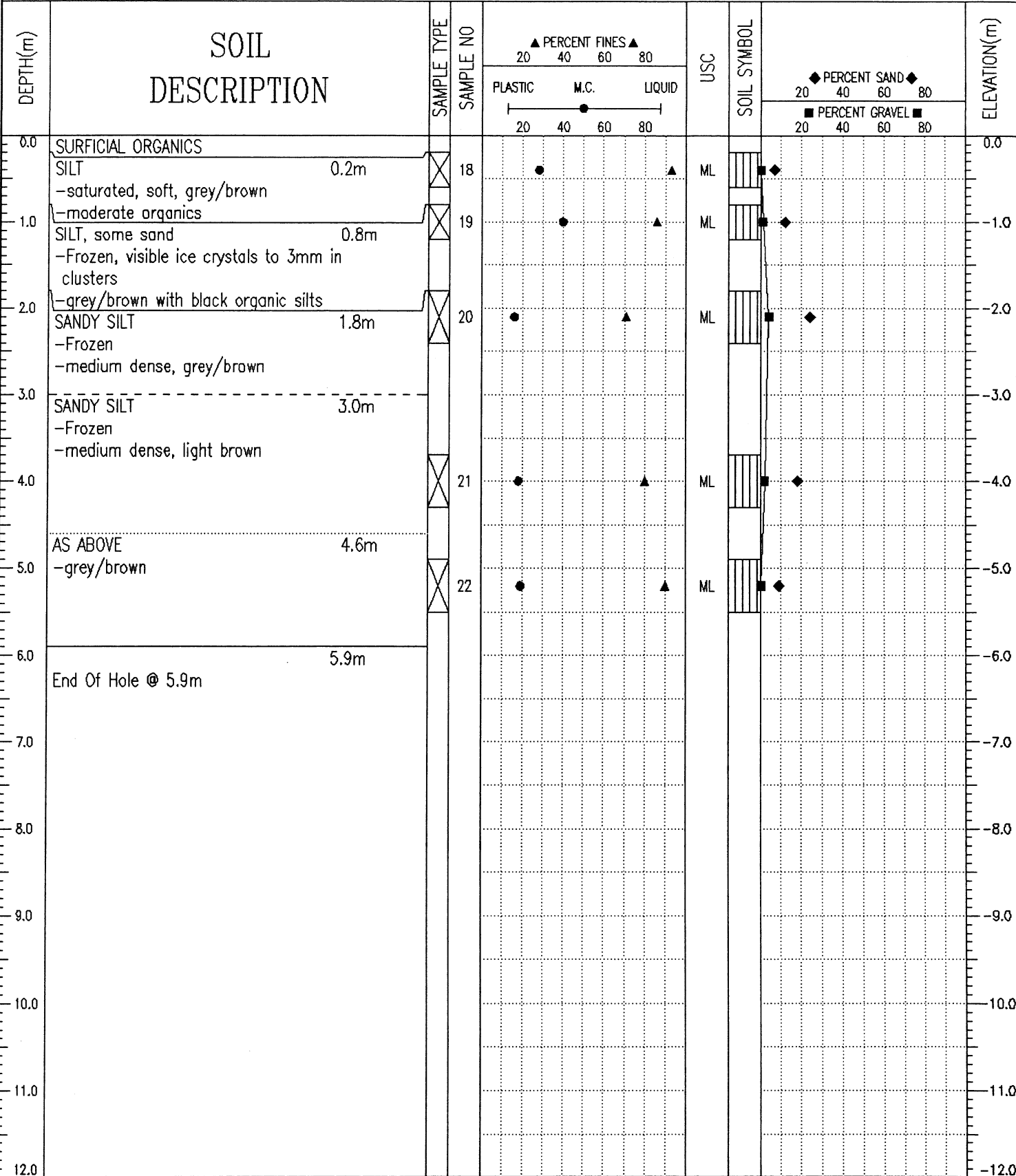
Page 1 of 1

Geotechnical Services Km 1691.7 to 1717.3 Alaska Highway #1 TEST PIT NO: 30173

Donjek Services Ltd. UTM ZONE: - N6778189 E631425 PROJECT NO: 8002-318

CME75 Drill on FN60 Flextrac Nodwell ELEVATION:

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

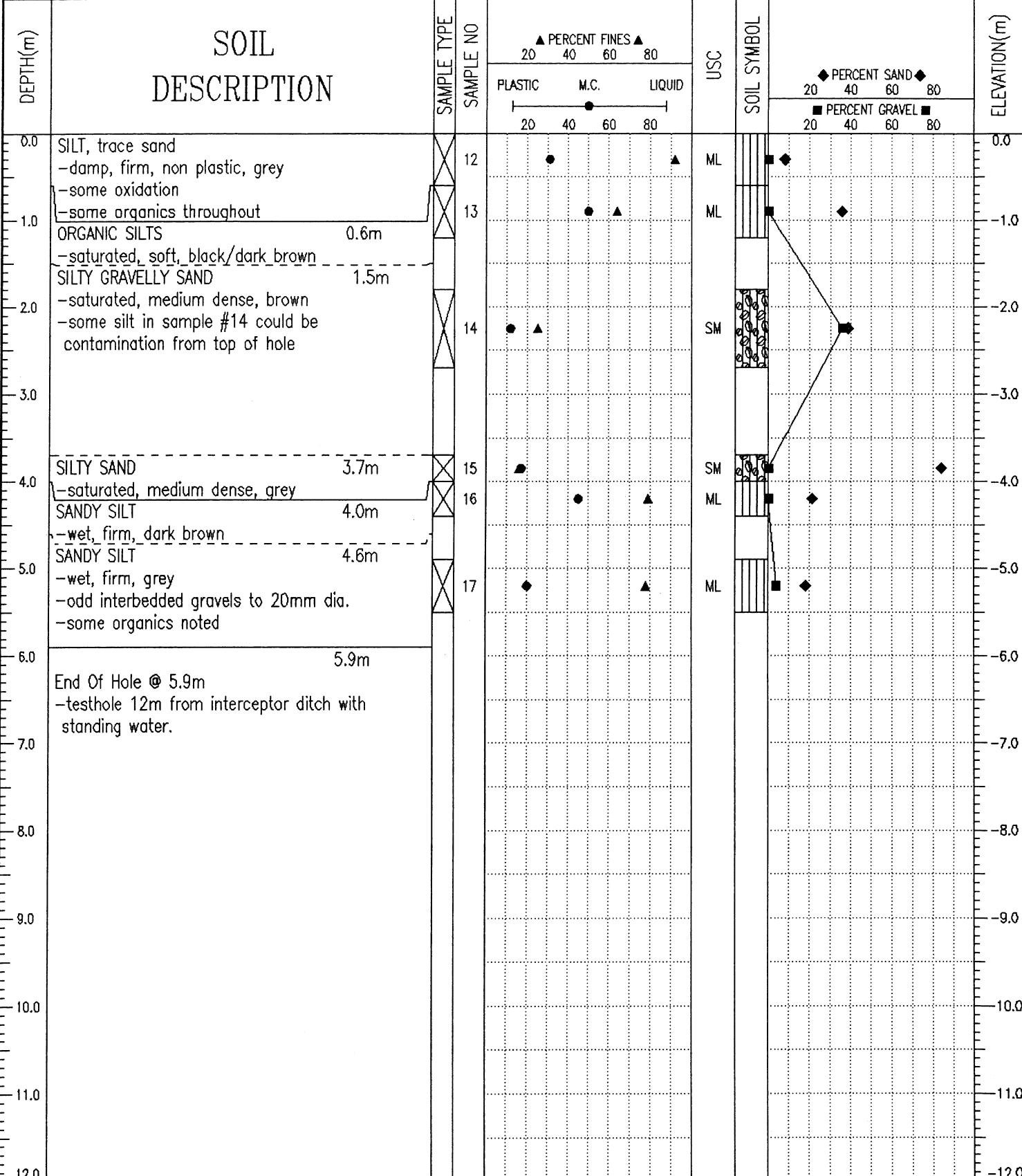
LOGGED BY: RW  
REVIEWED BY:  
Fig. No: 4  
COMPLETION DEPTH: 5.9 m  
COMPLETE: 07/28/04  
Page 1 of 1

Geotechnical Services Km 1691.7 to 1717.3 Alaska Highway #1 TEST PIT NO: 30174

Donjek Services Ltd. UTM ZONE: - N6778370 E631499 PROJECT NO: 8002-318

CME75 Drill on FN60 Flextrac Nadwell ELEVATION:

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW

REVIEWED BY:

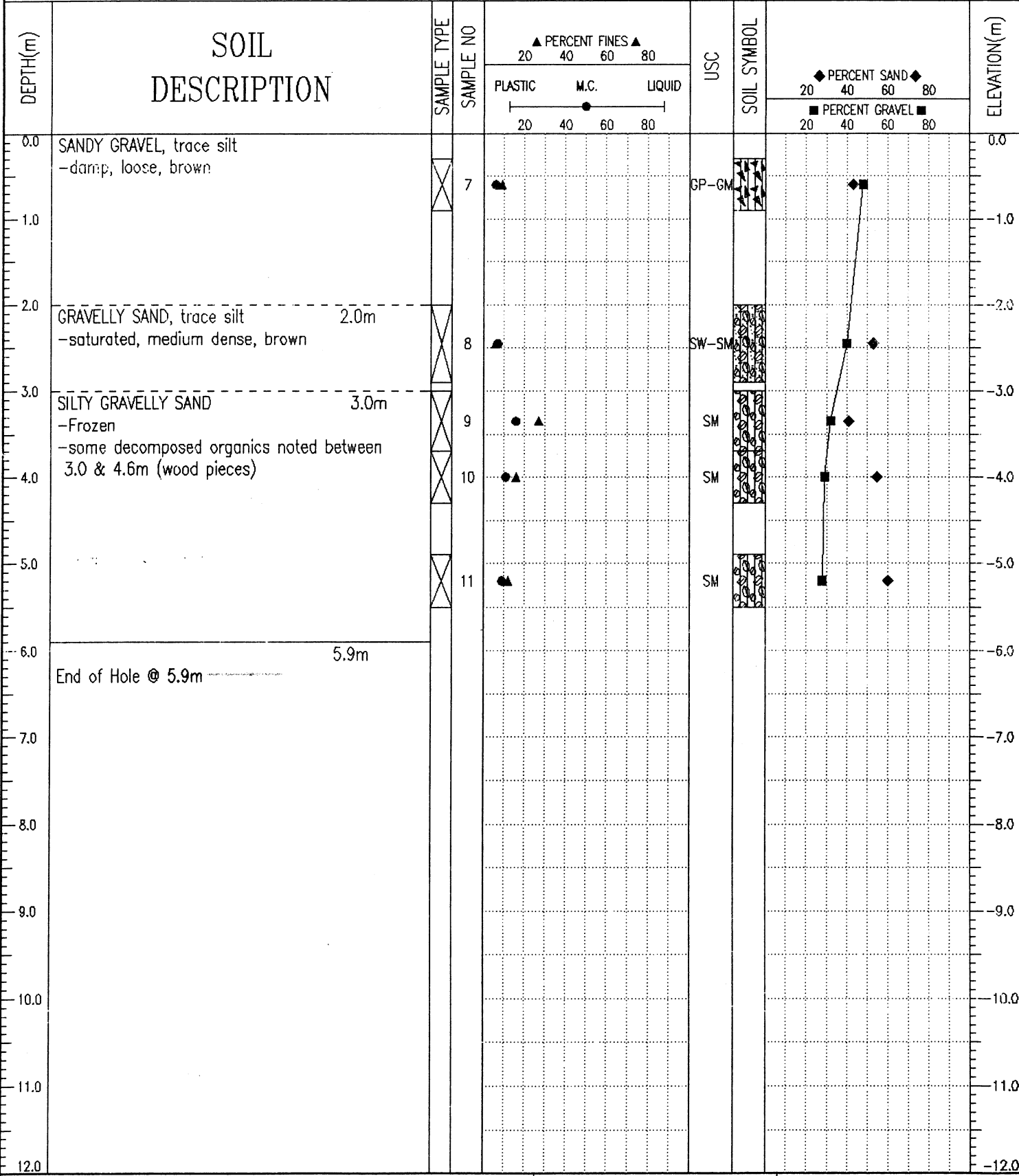
Fig. No: 3

COMPLETION DEPTH: 5.9 m

COMPLETE: 07/28/04

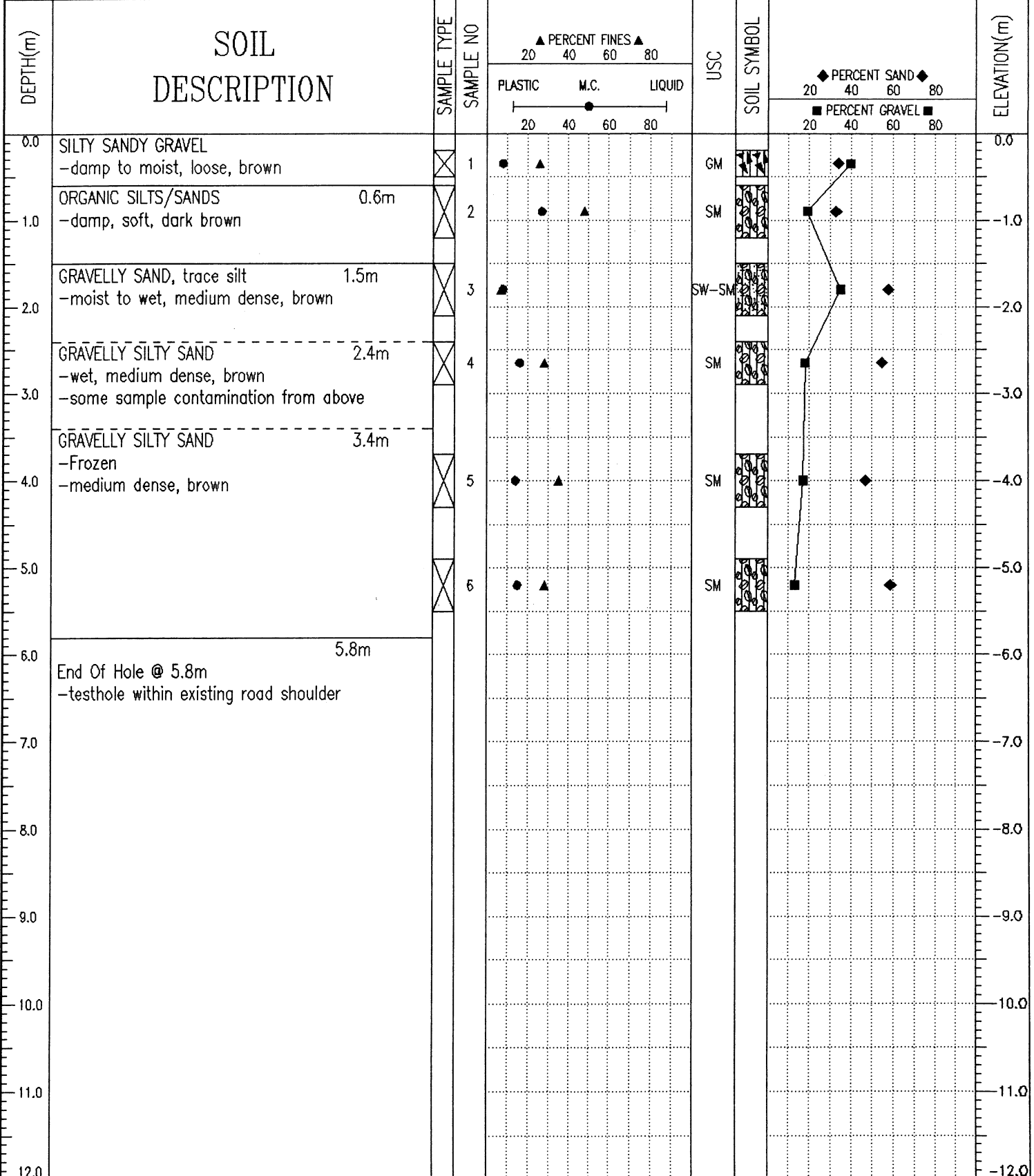
Page 1 of 1

SAMPLE TYPE    RETURN    S.P.T.    AUGER    BULK    TUBE    CORE



05/02/09 11:57AM (YIC\_RHYS)

SAMPLE TYPE     RETURN     S.P.T.     AUGER     BULK     TUBE     CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW

REVIEWED BY:

Fig. No: 1

COMPLETION DEPTH: 5.8 m

COMPLETE: 07/28/04

Page 1 of 1

Km 1691.7 to 1717.3 Alaska Highway #1

August 2004

J. R. Paine & Associates

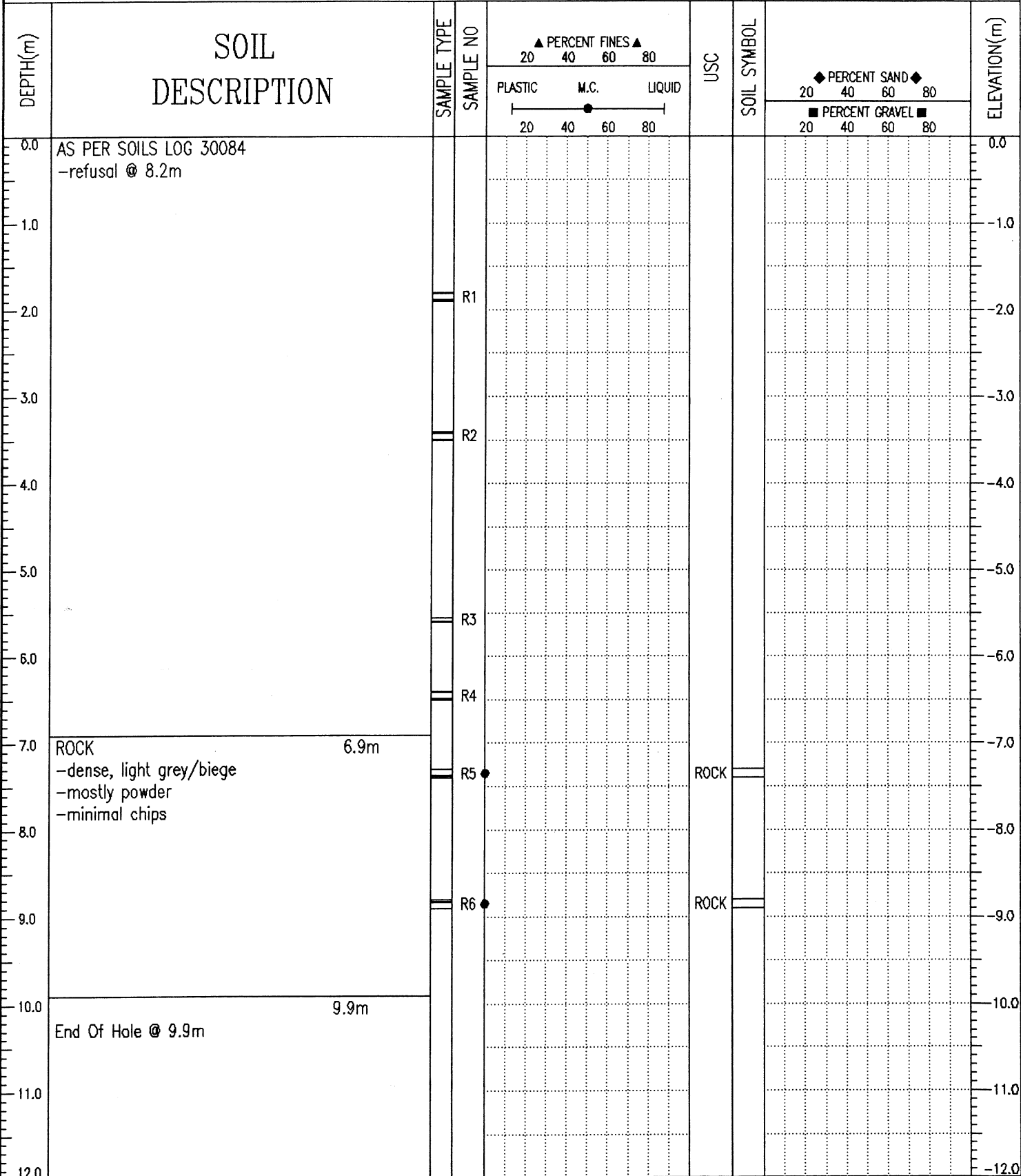
Rock Drill EseBase Logs  
(Reverse Circulation Air Rotary)

Testholes	30084 R to 30093 R
	30096 R to 30097 R
	30100 R to 30107 R
	30111 R to 30118 R
	30121 R to 30122 R
	30126 R to 30127 R
	30129 R
	30131 R to 30136 R

\* NOTE: Consultant not required to provide EseBase Logs for  
30149R to 30151R & 30153R to 30159R.  
Section constructed summer 2005.

Geotechnical Services Km 1691.7 to 1717.3 Alaska Highway #1 TEST PIT NO: 30084R  
 Midnight Sun Drilling Ltd. UTM ZONE: - N6769273 E635167 PROJECT NO: 8002-318  
 Reverse Circulation Air Rotary Drill ELEVATION:

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



J. R. Paine & Associates Ltd.  
 Whitehorse, Yukon

LOGGED BY: RW

REVIEWED BY:

Fig. No: 99

COMPLETION DEPTH: 9.9 m

COMPLETE: 09/22/04

Page 1 of 1



SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

DEPTH(m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			ELEVATION(m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	AS PER SOILS LOG 30086 -refusal @ 11.0m											0.0
1.0												-1.0
2.0			R11									-2.0
3.0												-3.0
4.0			R12									-4.0
5.0												-5.0
6.0			R13									-6.0
7.0												-7.0
8.0	SANDY SILT 7.6m -powder -some rock chips and some rounded stone -dry, light beige		R14									-8.0
9.0			R15									-9.0
10.0												-10.0
11.0			R16									-11.0
12.0			R17									-12.0

Geotechnical Services	Km 1691.7 to 1717.3 Alaska Highway #1	TEST PIT NO: 30086R
Midnight Sun Drilling Ltd.	UTM ZONE: - N6769428 E635135	PROJECT NO: 8002-318
Reverse Circulation Air Rotary Drill		ELEVATION:

SAMPLE TYPE    RETURN    S.P.T.    AUGER    BULK    TUBE    CORE

DEPTH(m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			ELEVATION(m)
				20	40	60			80	20	40	
12.0	ROCK 12.5m		R18				ROCK					-12.0
13.0												-13.0
14.0												-14.0
15.0												-15.0
15.5	ROCK 15.5m		R19				ROCK					-15.5
16.0	End Of Hole @ 15.5m											-16.0
17.0												-17.0
18.0												-18.0
19.0												-19.0
20.0												-20.0
21.0												-21.0
22.0												-22.0
23.0												-23.0
24.0												-24.0

J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW  
REVIEWED BY:  
Fig. No: 101

COMPLETION DEPTH: 15.5 m  
COMPLETE: 09/23/04

Geotechnical Services Km 1691.7 to 1717.3 Alaska Highway #1 TEST PIT NO: 30087R

Midnight Sun Drilling Ltd. UTM ZONE: - N6769474 E635128 PROJECT NO: 8002-318

Reverse Circulation Air Rotary Drill ELEVATION:

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

DEPTH(m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲			USC	SOIL SYMBOL	◆ PERCENT SAND ◆		ELEVATION(m)
				PLASTIC	M.C.	LIQUID			20	40	
0.0	AS PER SOILS LOG 30087 -refusal @ 6.4m & 6.2m										0.0
1.0											-1.0
2.0											-2.0
3.0			R20								-3.0
4.0											-4.0
5.0			R21								-5.0
6.0											-6.0
6.1	GRAVELLY SAND, trace silt -damp, brown -rock chips noted										-6.1
7.0			R22								-7.0
8.0											-8.0
9.0			R23								-9.0
10.0											-10.0
10.8	ROCK -dry, grey -mostly powder -some rock chips										-10.8
11.0			R24				ROCK				-11.0
12.0											-12.0

J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW

REVIEWED BY:

Fig. No: 102

COMPLETION DEPTH: 12.8 m

COMPLETE: 09/23/04

Page 1 of 2

Geotechnical Services Km 1691.7 to 1717.3 Alaska Highway #1 TEST PIT NO: 30087R

Midnight Sun Drilling Ltd. UTM ZONE: - N6769474 E635128 PROJECT NO: 8002-318

Reverse Circulation Air Rotary Drill ELEVATION:

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

DEPTH(m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲			USC	SOIL SYMBOL	◆ PERCENT SAND ◆		ELEVATION(m)
				PLASTIC	M.C.	LIQUID			20	40	
12.0			R25				ROCK				-12.0
13.0	12.8m End Of Hole @ 12.8m -note: when adding 7.3m to 10.4m stem, H2O/mud came out of cone. Possibly water seepage near 7.4m										-13.0
14.0											-14.0
15.0											-15.0
16.0											-16.0
17.0											-17.0
18.0											-18.0
19.0											-19.0
20.0											-20.0
21.0											-21.0
22.0											-22.0
23.0											-23.0
24.0											-24.0

<b>J. R. Paine &amp; Associates Ltd.</b> Whitehorse, Yukon	LOGGED BY: RW	COMPLETION DEPTH: 12.8 m
	REVIEWED BY:	COMPLETE: 09/23/04
	Fig. No: 102	Page 2 of 2

SAMPLE TYPE    RETURN    S.P.T.    AUGER    BULK    TUBE    CORE

DEPTH(m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES			USC	SOIL SYMBOL	PERCENT SAND & GRAVEL			ELEVATION(m)
				PLASTIC	M.C.	LIQUID			PERCENT SAND	PERCENT GRAVEL		
0.0	AS PER SOILS LOG 30088 -refusal at 5.0m & 5.2m											0.0
3.8			R26									
5.8			R27									
6.7	ROCK -dry, grey -rock chips noted		R28				ROCK					
8.8			R29				ROCK					
9.8	End Of Hole @ 9.8m											

SAMPLE TYPE    RETURN    S.P.T.    AUGER    BULK    TUBE    CORE

DEPTH(m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			ELEVATION(m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	AS PER SOILS LOG 30089											0.0
0.0 - 0.5	ROCK 0.5m -dry, grey											-1.0
1.5			R30				ROCK					-2.0
2.5			R31				ROCK					-3.0
3.4	End Of Hole @ 3.4m -continue drilling to 4.6m to allow casing to be pulled											-4.0
4.0												-5.0
5.0												-6.0
6.0												-7.0
7.0												-8.0
8.0												-9.0
9.0												-10.0
10.0												-11.0
11.0												-12.0

Geotechnical Services	Km 1691.7 to 1717.3 Alaska Highway #1	TEST PIT NO: 30090R
Midnight Sun Drilling Ltd.	UTM ZONE: - N6769661 E635065	PROJECT NO: 8002-318
Reverse Circulation Air Rotary Drill		ELEVATION:

SAMPLE TYPE    RETURN    S.P.T.    AUGER    BULK    TUBE    CORE

DEPTH(m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			ELEVATION(m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	AS PER SOILS LOG 30090 -refusal @ 1.5m & 0.9m											0.0
1.5	ROCK -dry, grey											-1.0
2.0			R32				ROCK					-2.0
4.0			R33				ROCK					-4.0
4.3	End Of Hole @ 4.3m -no casing used											-4.3
5.0												-5.0
6.0												-6.0
7.0												-7.0
8.0												-8.0
9.0												-9.0
10.0												-10.0
11.0												-11.0
12.0												-12.0

<b>J. R. Paine &amp; Associates Ltd.</b> Whitehorse, Yukon	LOGGED BY: RW	COMPLETION DEPTH: 4.3 m
	REVIEWED BY:	COMPLETE: 09/24/04
	Fig. No: 105	Page 1 of 1

Geotechnical Services	Km 1691.7 to 1717.3 Alaska Highway #1	TEST PIT NO: 30091R
Midnight Sun Drilling Ltd.	UTM ZONE: - N6769700 E635045	PROJECT NO: 8002-318
Reverse Circulation Air Rotary Drill		ELEVATION:

SAMPLE TYPE    RETURN    S.P.T.    AUGER    BULK    TUBE    CORE

DEPTH(m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			ELEVATION(m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	AS PER SOILS LOG 30091 -refusal @ 1.2m & 1.4m											0.0
1.0	ROCK -dry, grey											-1.0
2.0			R34				ROCK					-2.0
3.0			R35				ROCK					-3.0
4.0	End Of Hole @ 4.0m -no casing used											-4.0
5.0												-5.0
6.0												-6.0
7.0												-7.0
8.0												-8.0
9.0												-9.0
10.0												-10.0
11.0												-11.0
12.0												-12.0

<b>J. R. Paine &amp; Associates Ltd.</b> Whitehorse, Yukon	LOGGED BY: RW	COMPLETION DEPTH: 4 m
	REVIEWED BY:	COMPLETE: 09/24/04
	Fig. No: 106	Page 1 of 1

Geotechnical Services Km 1691.7 to 1717.3 Alaska Highway #1 TEST PIT NO: 30092R

Midnight Sun Drilling Ltd. UTM ZONE: - N6769762 E634998 PROJECT NO: 8002-318

Reverse Circulation Air Rotary Drill ELEVATION:

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

DEPTH(m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			ELEVATION(m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	AS PER SOILS LOG -refusal @ 4.7m & 5.0m											0.0
5.0	ROCK -dry, grey 4.9m		R36				ROCK					-5.0
7.0			R37				ROCK					-7.0
8.0	End Of Hole @ 7.9m 7.9m											-8.0
12.0												-12.0

J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW

REVIEWED BY:

Fig. No: 107

COMPLETION DEPTH: 7.9 m

COMPLETE: 09/24/04

Page 1 of 1

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

DEPTH(m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES	USC	SOIL SYMBOL	ELEVATION(m)
				▲ PERCENT FINES ▲ 20 40 60 80 PLASTIC M.C. LIQUID ───────────●────────── 20 40 60 80		◆ PERCENT SAND ◆ 20 40 60 80 ■ PERCENT GRAVEL ■ 20 40 60 80	
0.0	AS PER SOILS LOG 30093 -refusal @ 7.0m, 2.1m & 2.4m						0.0
2.0	SANDY SILT/SILTY SAND, some gravel -moist, brown		R38				-2.0
3.0							-3.0
7.6	POSSIBLY ROCK -some rock chips noted -some sand -minimal powder or dust		R39				-7.6
8.5	ROCK -dry, grey		R40		ROCK		-8.5
10.7	End Of Hole @ 10.7m -no casing used		R41		ROCK		-10.7
12.0							-12.0

J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW	COMPLETION DEPTH: 10.7 m
REVIEWED BY:	COMPLETE: 09/24/04
Fig. No: 108	Page 1 of 1

Geotechnical Services	Km 1691.7 to 1717.3 Alaska Highway #1	TEST PIT NO: 30096R
Midnight Sun Drilling Ltd.	UTM ZONE: - N6769986 E634847	PROJECT NO: 8002-318
Reverse Circulation Air Rotary Drill		ELEVATION:

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

DEPTH(m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			ELEVATION(m)
				PLASTIC	M.C.	LIQUID			20	40	60	
12.0	GRAVELLY SILTY SAND -damp to moist, brown		R44									-12.0
13.0												
14.0	POSSIBLY ROCK or GRAVEL/COBBLE LAYER 13.7m -moist, brown -bit freezing/plugging up (not pounding) -some rounded stone -minimal powder from cone		R45									-14.0
15.0	End Of Hole 14.3m											-15.0
16.0												-16.0
17.0												-17.0
18.0												-18.0
19.0												-19.0
20.0												-20.0
21.0												-21.0
22.0												-22.0
23.0												-23.0
24.0												-24.0

J. R. Paine & Associates Ltd. Whitehorse, Yukon	LOGGED BY: RW	COMPLETION DEPTH: 14.3 m
	REVIEWED BY:	COMPLETE: 09/24/04
	Fig. No: 109	Page 2 of 2

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

DEPTH(m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			ELEVATION(m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	AS PER SOILS LOG 30097 -refusal @ 3.4m & 3.2m											0.0
1.0												-1.0
2.0												-2.0
3.0												-3.0
4.0												-4.0
5.0												-5.0
6.0												-6.0
7.0	GRAVELLY SANDY SILT to GRAVELLY SILTY SAND -wet, brown -some rock chips		R46									-7.0
8.0												-8.0
9.0												-9.0
10.0	GRAVELLY SAND, some silt to silty 9.8m -damp to moist, brown		R47									-10.0
11.0												-11.0
12.0												-12.0

05/02/10 07:30AM (YIG\_LHWIS)

Geotechnical Services Km 1691.7 to 1717.3 Alaska Highway #1 TEST PIT NO: 30097R

Midnight Sun Drilling Ltd. UTM ZONE: - N6770133 E634803 PROJECT NO: 8002-318

Reverse Circulation Air Rotary Drill ELEVATION:

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

DEPTH(m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES			USC	SOIL SYMBOL	ELEVATION(m)
				PLASTIC	M.C.	LIQUID			
12.0	SANDY GRAVEL, trace to some silt -damp, brown		R49					-12.0	
13.0									-13.0
14.0								-14.0	
15.0	End Of Hole @ 15.2m -bit was plugged from 0.0 to 6.7m depth -no indication of rock		R50					-15.0	
16.0									-16.0
17.0								-17.0	
18.0								-18.0	
19.0								-19.0	
20.0								-20.0	
21.0								-21.0	
22.0								-22.0	
23.0								-23.0	
24.0								-24.0	

J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW	COMPLETION DEPTH: 15.2 m
REVIEWED BY:	COMPLETE: 09/24/04
Fig. No: 110	Page 2 of 2

Geotechnical Services	Km 1691.7 to 1717.3 Alaska Highway #1	TEST PIT NO: 30100R
Midnight Sun Drilling Ltd.	UTM ZONE: - N6770540 E634627	PROJECT NO: 8002-318
Reverse Circulation Air Rotary Drill		ELEVATION:

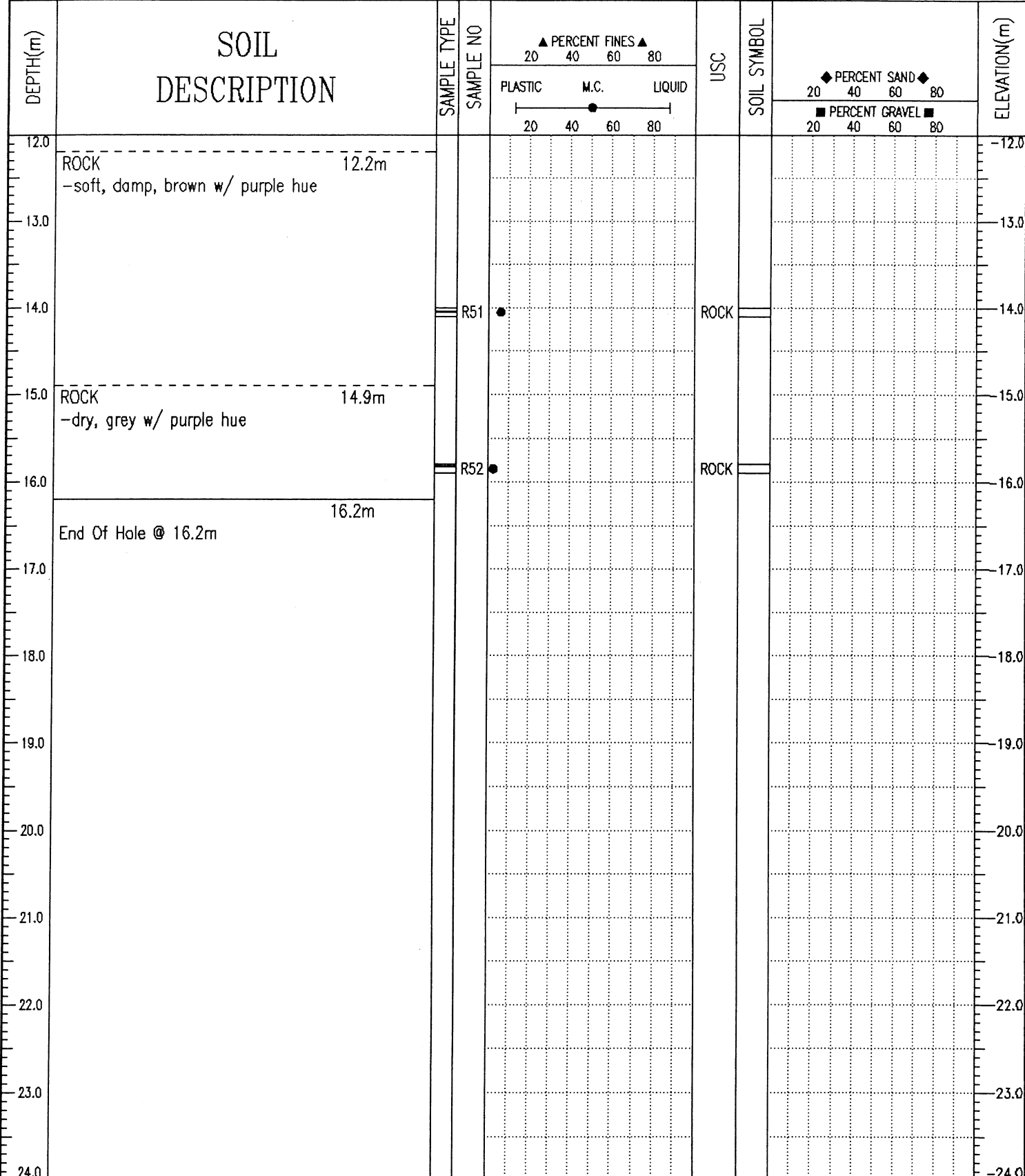
SAMPLE TYPE    RETURN    S.P.T.    AUGER    BULK    TUBE    CORE

DEPTH(m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲ 20 40 60 80 PLASTIC      M.C.      LIQUID ────────────●─────────── 20 40 60 80	USC	SOIL SYMBOL	◆ PERCENT SAND ◆ 20 40 60 80 ■ PERCENT GRAVEL ■ 20 40 60 80	ELEVATION(m)
0.0	AS PER SOILS LOG 30100 -refusal @ 10.1m							0.0
1.0								-1.0
2.0								-2.0
3.0								-3.0
4.0								-4.0
5.0								-5.0
6.0								-6.0
7.0								-7.0
8.0								-8.0
9.0								-9.0
10.0								-10.0
11.0								-11.0
12.0								-12.0

J. R. Paine & Associates Ltd. Whitehorse, Yukon	LOGGED BY: RW REVIEWED BY: Fig. No: 111	COMPLETION DEPTH: 16.2 m COMPLETE: 09/25/04
--	---	--

Geotechnical Services	Km 1691.7 to 1717.3 Alaska Highway #1	TEST PIT NO: 30100R
Midnight Sun Drilling Ltd.	UTM ZONE: - N6770540 E634627	PROJECT NO: 8002-318
Reverse Circulation Air Rotary Drill		ELEVATION:

SAMPLE TYPE    RETURN    S.P.T.    AUGER    BULK    TUBE    CORE



<b>J. R. Paine &amp; Associates Ltd.</b> Whitehorse, Yukon	LOGGED BY: RW	COMPLETION DEPTH: 16.2 m
	REVIEWED BY:	COMPLETE: 09/25/04
	Fig. No: 111	Page 2 of 2

Geotechnical Services	Km 1691.7 to 1717.3 Alaska Highway #1	TEST PIT NO: 30101R
Midnight Sun Drilling Ltd.	UTM ZONE: - N6770659 E634653	PROJECT NO: 8002-318
Reverse Circulation Air Rotary Drill		ELEVATION:

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

DEPTH(m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	USC	SOIL SYMBOL	ELEVATION(m)
				▲ PERCENT FINES ▲ 20 40 60 80	◆ PERCENT SAND ◆ 20 40 60 80	
				PLASTIC M.C. LIQUID 20 40 60 80	■ PERCENT GRAVEL ■ 20 40 60 80	
0.0	AS PER SOILS LOG 30101 -refusal @ 3.0m & 3.2m					0.0
2.4	ROCK -dry, grey					-2.4
4.0			R53	ROCK		-4.0
4.6	End Of Hole @ 4.6m					-4.6
6.0						-6.0
7.0						-7.0
8.0						-8.0
9.0						-9.0
10.0						-10.0
11.0						-11.0
12.0						-12.0

<b>J. R. Paine &amp; Associates Ltd.</b> Whitehorse, Yukon	LOGGED BY: RW REVIEWED BY: Fig. No: 112	COMPLETION DEPTH: 4.6 m COMPLETE: 09/25/04
---	---	---

Geotechnical Services	Km 1691.7 to 1717.3 Alaska Highway #1	TEST PIT NO: 30102R
Midnight Sun Drilling Ltd.	UTM ZONE: - N6770744 E634667	PROJECT NO: 8002-318
Reverse Circulation Air Rotary Drill		ELEVATION:

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

DEPTH(m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		ELEVATION(m)
				PLASTIC	M.C.	LIQUID			20	40	
0.0	AS PER SOILS LOG 30102 -refusal @ 3.0m & 1.0m										0.0
1.0	ROCK -dry, grey										-1.0
2.0			R54				ROCK				-2.0
3.0											-3.0
4.0			R55				ROCK				-4.0
4.3	End Of Hole @ 4.3m										-4.3
5.0											-5.0
6.0											-6.0
7.0											-7.0
8.0											-8.0
9.0											-9.0
10.0											-10.0
11.0											-11.0
12.0											-12.0

<b>J. R. Paine &amp; Associates Ltd.</b> Whitehorse, Yukon	LOGGED BY: RW	COMPLETION DEPTH: 4.3 m
	REVIEWED BY:	COMPLETE: 09/25/04
	Fig. No: 113	Page 1 of 1

SAMPLE TYPE    RETURN    S.P.T.    AUGER    BULK    TUBE    CORE

DEPTH(m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲			USC	SOIL SYMBOL	◆ PERCENT SAND ◆		ELEVATION(m)	
				PLASTIC	M.C.	LIQUID			20	40		60
0.0	AS PER SOILS LOG 30103 -refusal @ 4.3m & 2.4m											0.0
3.4	ROCK -dry, grey											
4.0			R56				ROCK					
5.0												
5.5			R57				ROCK					
6.0												
7.3	End of Hole @ 7.3m											
8.0												
9.0												
10.0												
11.0												
12.0												

05/02/10 07:33AM (YIG\_HMYS)



Geotechnical Services Km 1691.7 to 1717.3 Alaska Highway #1 TEST PIT NO: 30105R

Midnight Sun Drilling Ltd. UTM ZONE: - N6771014 E634672 PROJECT NO: 8002-318

Reverse Circulation Air Rotary Drill ELEVATION:

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

DEPTH(m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			ELEVATION(m)
				PLASTIC	M.C.	LIQUID			20	40	60	

0.0	AS PER SOILS LOG 30105 -refusal @ 4.6m											0.0
1.0												-1.0
2.0												-2.0
3.0												-3.0
4.0												-4.0
5.0												-5.0

5.0	ROCK -dry, grey											-5.0
6.0												-6.0
7.0												-7.0

7.0												-7.0
8.0												-8.0

8.0	End Of Hole @ 7.6m											-8.0
-----	--------------------	--	--	--	--	--	--	--	--	--	--	------

9.0												-9.0
10.0												-10.0
11.0												-11.0
12.0												-12.0

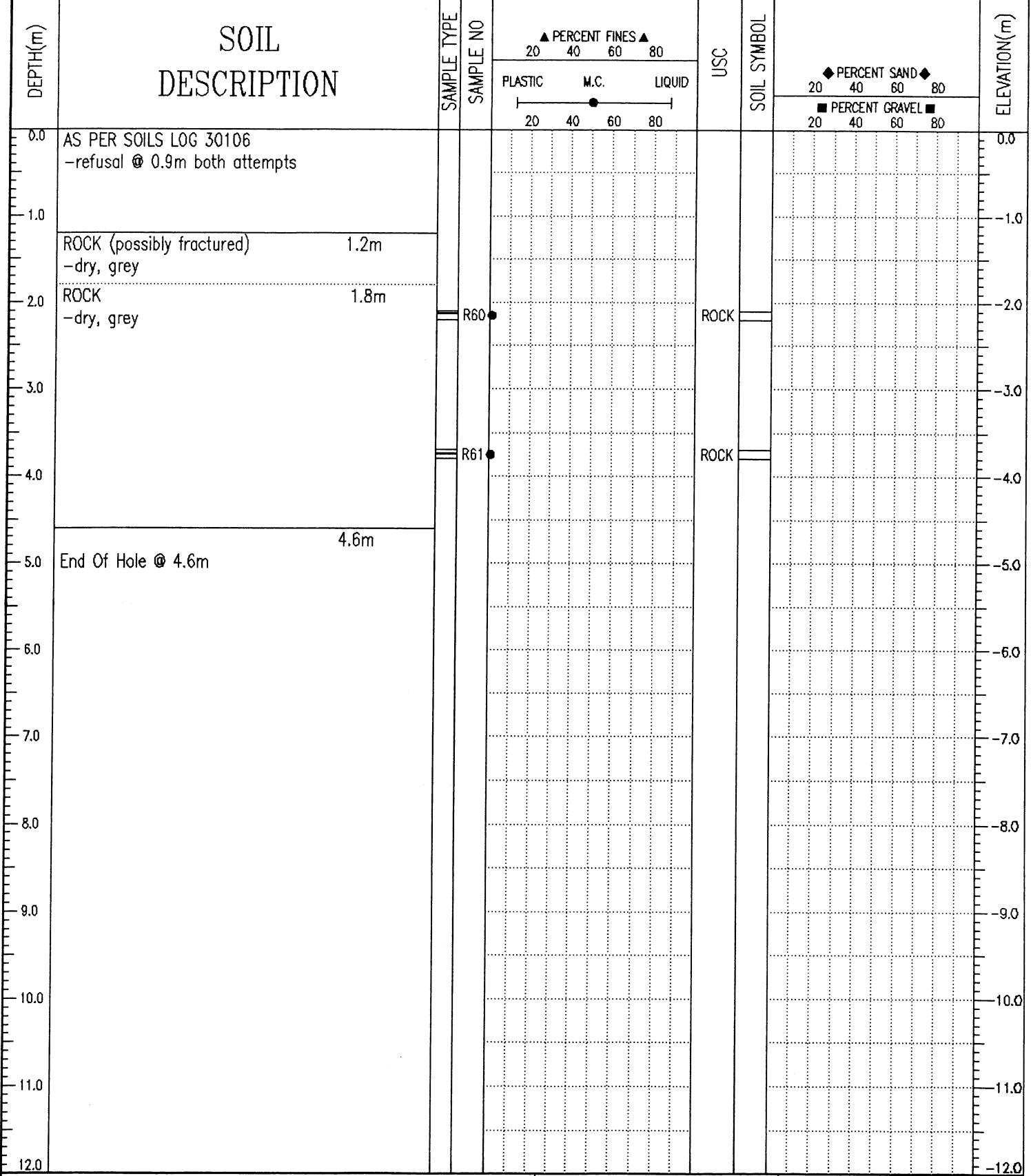
J. R. Paine & Associates Ltd. Whitehorse, Yukon				LOGGED BY: RW				COMPLETION DEPTH: 7.6 m			
				REVIEWED BY:				COMPLETE: 09/26/04			
				Fig. No: 116				Page 1 of 1			

Geotechnical Services Km 1691.7 to 1717.3 Alaska Highway #1 TEST PIT NO: 30106R

Midnight Sun Drilling Ltd. UTM ZONE: - N6771070 E634575 PROJECT NO: 8002-318

Reverse Circulation Air Rotary Drill ELEVATION:

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW COMPLETION DEPTH: 4.6 m  
REVIEWED BY: COMPLETE: 09/26/04  
Fig. No: 117 Page 1 of 1

Geotechnical Services      Km 1691.7 to 1717.3 Alaska Highway #1      TEST PIT NO: 30107R  
 Midnight Sun Drilling Ltd.      UTM ZONE: - N6771151 E634529      PROJECT NO: 8002-318  
 Reverse Circulation Air Rotary Drill      ELEVATION:

SAMPLE TYPE     RETURN     S.P.T.     AUGER     BULK     TUBE     CORE

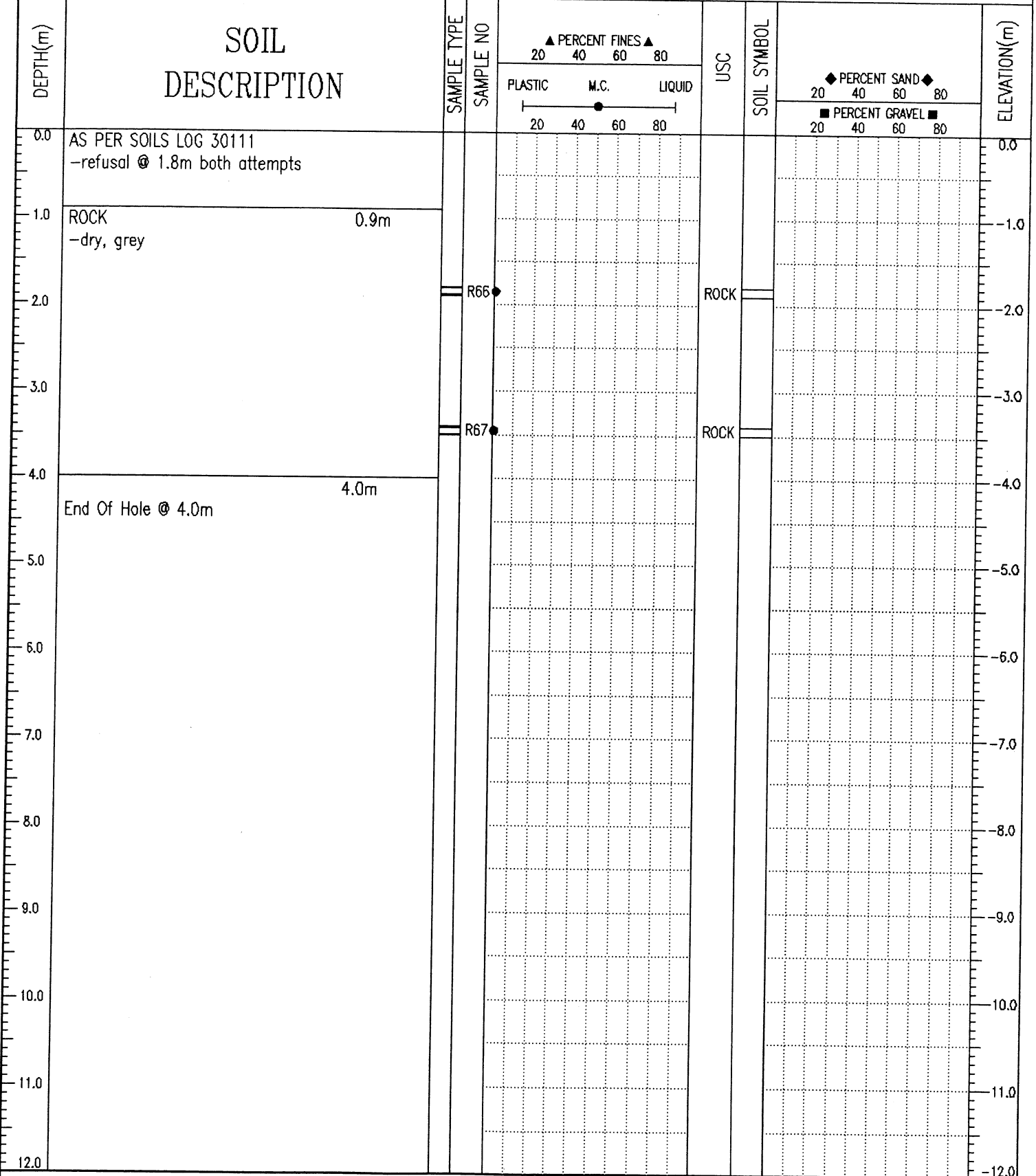
DEPTH(m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲ 20 40 60 80			USC	SOIL SYMBOL	◆ PERCENT SAND ◆ 20 40 60 80		ELEVATION(m)
				PLASTIC	M.C.	LIQUID			■ PERCENT GRAVEL ■ 20 40 60 80		
0.0	AS PER SOILS LOG 30107 -refusal @ 1.5m both attempts									0.0	
1.2	ROCK -dry, grey									-1.0	
2.0			R62				ROCK			-2.0	
3.0										-3.0	
3.7			R63				ROCK			-3.7	
4.3	End Of Hole @ 4.3m									-4.3	
5.0										-5.0	
6.0										-6.0	
7.0										-7.0	
8.0										-8.0	
9.0										-9.0	
10.0										-10.0	
11.0										-11.0	
12.0										-12.0	

J. R. Paine & Associates Ltd.  
 Whitehorse, Yukon

LOGGED BY: RW      COMPLETION DEPTH: 4.3 m  
 REVIEWED BY:      COMPLETE: 09/26/04  
 Fig. No: 132      Page 1 of 1

Geotechnical Services	Km 1691.7 to 1717.3 Alaska Highway #1	TEST PIT NO: 30111R
Midnight Sun Drilling Ltd.	UTM ZONE: - N6771629 E634480	PROJECT NO: 8002-318
Reverse Circulation Air Rotary Drill		ELEVATION:

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



<b>J. R. Paine &amp; Associates Ltd.</b> Whitehorse, Yukon	LOGGED BY: RW	COMPLETION DEPTH: 4 m
	REVIEWED BY:	COMPLETE: 09/26/04
	Fig. No: 118	Page 1 of 1

Geotechnical Services

Km 1691.7 to 1717.3 Alaska Highway #1

TEST PIT NO: 30112R

Midnight Sun Drilling Ltd.

UTM ZONE: - N6771772 E634470

PROJECT NO: 8002-318

Reverse Circulation Air Rotary Drill

ELEVATION:

SAMPLE TYPE

RETURN

S.P.T.

AUGER

BULK

TUBE

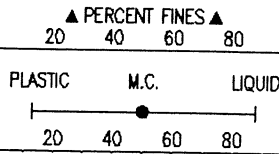
CORE

DEPTH(m)

SOIL DESCRIPTION

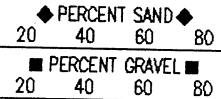
SAMPLE TYPE

SAMPLE NO



USC

SOIL SYMBOL



ELEVATION(m)

0.0	AS PER SOILS LOG 30112 -refusal @ 3.4m both attempts								0.0
1.0									-1.0
2.0									-2.0
3.0	ROCK (possibly fractured) 3.0m -dry, grey -some sand infill								-3.0
4.0	ROCK 4.0m -dry, grey		R68			ROCK			-4.0
5.0	End Of Hole @ 4.6m 4.6m								-5.0
6.0									-6.0
7.0									-7.0
8.0									-8.0
9.0									-9.0
10.0									-10.0
11.0									-11.0
12.0									-12.0

J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW

REVIEWED BY:

Fig. No: 119

COMPLETION DEPTH: 4.6 m

COMPLETE: 09/26/04

Geotechnical Services | Km 1691.7 to 1717.3 Alaska Highway #1 | TEST PIT NO: 30113R  
 Midnight Sun Drilling Ltd. | UTM ZONE: - N6771880 E634441 | PROJECT NO: 8002-318  
 Reverse Circulation Air Rotary Drill | | ELEVATION:

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

DEPTH(m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES			USC	SOIL SYMBOL	PERCENT SAND			PERCENT GRAVEL			ELEVATION(m)
				PLASTIC	M.C.	LIQUID			20	40	60	80	20	40	
0.0	AS PER SOILS LOG 30113 --refusal @ 2.4m & 2.1m													0.0	
1.8	ROCK (possibly fractured)													-1.8	
2.4	ROCK -intact													-2.4	
4.6	End Of Hole @ 4.6m		R69				ROCK							-4.6	

J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW | COMPLETION DEPTH: 4.6 m  
 REVIEWED BY: | COMPLETE: 09/26/04  
 Fig. No: 120 | Page 1 of 1

Geotechnical Services	Km 1691.7 to 1717.3 Alaska Highway #1	TEST PIT NO: 30114R
Midnight Sun Drilling Ltd.	UTM ZONE: - N6772023 E634386	PROJECT NO: 8002-318
Reverse Circulation Air Rotary Drill		ELEVATION:

SAMPLE TYPE    RETURN    S.P.T.    AUGER    BULK    TUBE    CORE

DEPTH(m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			ELEVATION(m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	AS PER SOILS LOG 30114 -refusal @ 1.8m & 2.9m											0.0
3.0	ROCK (possibly fractured) -medium dense -some sand infill											-3.0
4.0	ROCK -intact											-4.0
4.6	End Of Hole @ 4.6m		R70				ROCK					-4.6
5.0												-5.0
6.0												-6.0
7.0												-7.0
8.0												-8.0
9.0												-9.0
10.0												-10.0
11.0												-11.0
12.0												-12.0

<b>J. R. Paine &amp; Associates Ltd.</b> Whitehorse, Yukon	LOGGED BY: RW	COMPLETION DEPTH: 4.6 m
	REVIEWED BY:	COMPLETE: 09/27/04
	Fig. No: 121	Page 1 of 1

Geotechnical Services      Km 1691.7 to 1717.3 Alaska Highway #1      TEST PIT NO: 30115R  
 Midnight Sun Drilling Ltd.      UTM ZONE: - N6772108 E634337      PROJECT NO: 8002-318  
 Reverse Circulation Air Rotary Drill      ELEVATION:

SAMPLE TYPE     RETURN     S.P.T.     AUGER     BULK     TUBE     CORE

DEPTH(m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			ELEVATION(m)
				PLASTIC	M.C.	LIQUID			PERCENT GRAVEL ■			
0.0	AS PER SOILS LOG 30115 -refusal @ 3.7m & 4.3m										0.0	
2.0	ROCK or COBBLES/BOULDERS 1.8m -light brown/grey										-2.0	
4.0	ROCK 3.4m -some powder (not fine) -some sand in sample -water on stem after withdrawl -medium dense		R73				ROCK				-4.0	
5.0	End Of Hole @ 4.6m										-5.0	
6.0											-6.0	
7.0											-7.0	
8.0											-8.0	
9.0											-9.0	
10.0											-10.0	
11.0											-11.0	
12.0											-12.0	

J. R. Paine & Associates Ltd.  
 Whitehorse, Yukon

LOGGED BY: RW      COMPLETION DEPTH: 4.6 m  
 REVIEWED BY:      COMPLETE: 09/27/04  
 Fig. No: 122      Page 1 of 1

Geotechnical Services Km 1691.7 to 1717.3 Alaska Highway #1 TEST PIT NO: 30116R  
 Midnight Sun Drilling Ltd. UTM ZONE: - N6772107 E634309 PROJECT NO: 8002-318  
 Reverse Circulation Air Rotary Drill ELEVATION:

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

DEPTH(m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		ELEVATION(m)
				PLASTIC	M.C.	LIQUID			20	40	
0.0	AS PER SOILS LOG 30116 -refusal @ 5.2m									0.0	
1.5	ROCK (possibly fractured) -dry, grey -medium dense -some sand in powder									-1.5	
3.0	ROCK -dry, grey									-3.0	
4.0			R71				ROCK			-4.0	
4.6	End Of Hole @ 4.6m									-4.6	
6.0										-6.0	
7.0										-7.0	
8.0										-8.0	
9.0										-9.0	
10.0										-10.0	
11.0										-11.0	
12.0										-12.0	

J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW  
REVIEWED BY:  
Fig. No: 123  
COMPLETION DEPTH: 4.6 m  
COMPLETE: 09/27/04

Geotechnical Services Km 1691.7 to 1717.3 Alaska Highway #1 TEST PIT NO: 30117R

Midnight Sun Drilling Ltd. UTM ZONE: - N6772253 E634224 PROJECT NO: 8002-318

Reverse Circulation Air Rotary Drill ELEVATION:

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES			USC	SOIL SYMBOL	PERCENT SAND		PERCENT GRAVEL		ELEVATION (m)
				PLASTIC	M.C.	LIQUID			20	80	20	80	
0.0	AS PER SOILS LOG 30117 -refusal 2.1m @ 3.7m											0.0	
3.4	ROCK or GRAVEL STRATA -dry, brown -not much powder -some round stone in sample											3.4	
6.7	End Of Hole @ 6.7m											6.7	
6.0			R72									6.0	

J. R. Paine & Associates Ltd. Whitehorse, Yukon	LOGGED BY: RW	COMPLETION DEPTH: 6.7 m
	REVIEWED BY:	COMPLETE: 09/27/04
	Fig. No: 124	Page 1 of 1

Geotechnical Services      Km 1691.7 to 1717.3 Alaska Highway #1      TEST PIT NO: 30118R  
 Midnight Sun Drilling Ltd.      UTM ZONE: - N6772274 E634188      PROJECT NO: 8002-318  
 Reverse Circulation Air Rotary Drill      ELEVATION:

SAMPLE TYPE     RETURN     S.P.T.     AUGER     BULK     TUBE     CORE

DEPTH (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			ELEVATION (m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	AS PER SOILS LOG 30118 -refusal @ 3.7m both attempts											0.0
3.0	ROCK      3.0m -dry, grey -very powdery -significant rock chips											
4.6	End Of Hole @ 4.6m      4.6m		R74				ROCK					
12.0												-12.0

J. R. Paine & Associates Ltd.      LOGGED BY: RW      COMPLETION DEPTH: 4.6 m  
 Whitehorse, Yukon      REVIEWED BY:      COMPLETE: 09/27/04  
 Fig. No: 125      Page 1 of 1



Geotechnical Services	Km 1691.7 to 1717.3 Alaska Highway #1	TEST PIT NO: 30122R
Midnight Sun Drilling Ltd.	UTM ZONE: - N6772688 E633923	PROJECT NO: 8002-318
Reverse Circulation Air Rotary Drill		ELEVATION:

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

DEPTH(m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		PERCENT GRAVEL ■		ELEVATION(m)
				20	40	60			80	20	40	60	
0.0	AS PER SOILS LOG 30122 -refusal @ 5.2m												0.0
1.0													-1.0
2.0													-2.0
3.0													-3.0
4.0													-4.0
5.0													-5.0
6.0													-6.0
7.0													-7.0
7.6				R77									-7.6
8.0	End Of Hole @ 7.6m - No Rock Encountered												-8.0
9.0													-9.0
10.0													-10.0
11.0													-11.0
12.0													-12.0

J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW

REVIEWED BY:

Fig. No: 127

COMPLETION DEPTH: 7.6 m

COMPLETE: 09/27/04

Page 1 of 1

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

DEPTH(m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲ 20 40 60 80 ▲ PLASTIC M.C. LIQUID  -----  20 40 60 80	USC	SOIL SYMBOL	PERCENT SAND ◆ 20 40 60 80 ◆ PERCENT GRAVEL ■ 20 40 60 80 ■	ELEVATION(m)
0.0	AS PER SOILS LOG 30126 -refusal @ 1.8m both attempts							0.0
2.0	ROCK 1.8m -dry, grey -medium dense to dense rock							-2.0
3.0			R78		ROCK			-3.0
4.0			R79		ROCK			-4.0
5.0	End Of Hole @ 4.6m 4.6m							-5.0
6.0								-6.0
7.0								-7.0
8.0								-8.0
9.0								-9.0
10.0								-10.0
11.0								-11.0
12.0								-12.0

05/02/10 07:40AM (YIC\_HHTS)

Geotechnical Services Km 1691.7 to 1717.3 Alaska Highway #1 TEST PIT NO: 30127R

Midnight Sun Drilling Ltd. UTM ZONE: - N6773336 E633614 PROJECT NO: 8002-318

Reverse Circulation Air Rotary Drill ELEVATION:

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

DEPTH(m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲			USC	SOIL SYMBOL	◆ PERCENT SAND ◆		ELEVATION(m)
				PLASTIC	M.C.	LIQUID			20	40	

0.0	AS PER SOILS LOG 30127 -refusal @ 4.6m & 4.4m									0.0
-----	--	--	--	--	--	--	--	--	--	-----

4.0	SILTY SAND 3.7m -dry to damp, brown/grey -minimal chips in sample -minimal powder, more fine sands -drill advanced steadily -not hard drilling		R80				SM			-4.0
7.0			R81				SM			-7.0

8.0	End Of Hole @ 7.6m - Cannot Determine Rock 7.6m									-8.0
-----	---	--	--	--	--	--	--	--	--	------

J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW	COMPLETION DEPTH: 7.6 m
REVIEWED BY:	COMPLETE: 09/28/04
Fig. No: 129	Page 1 of 1

Geotechnical Services Km 1691.7 to 1717.3 Alaska Highway #1 TEST PIT NO: 30129R  
 Midnight Sun Drilling Ltd. UTM ZONE: - N6773477 E633527 PROJECT NO: 8002-318  
 Reverse Circulation Air Rotary Drill ELEVATION:

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

DEPTH(m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲			USC	SOIL SYMBOL	◆ PERCENT SAND ◆			ELEVATION(m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	AS PER SOILS LOG 30129 -refusal @ 3.7m & 4.0m											0.0
4.0	SANDY GRAVEL (Cannot Determine Rock) 3.7m -dry, brown/grey -some rock chips -minimal powder -steady drilling		R82									-4.0
7.0	ROCK 7.0m -dry, grey -significant powder		R83				ROCK					-7.0
7.6	End Of Hole @ 7.6m											-7.6

J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW  
REVIEWED BY:  
Fig. No: 130  
COMPLETION DEPTH: 7.6 m  
COMPLETE: 09/29/04  
Page 1 of 1

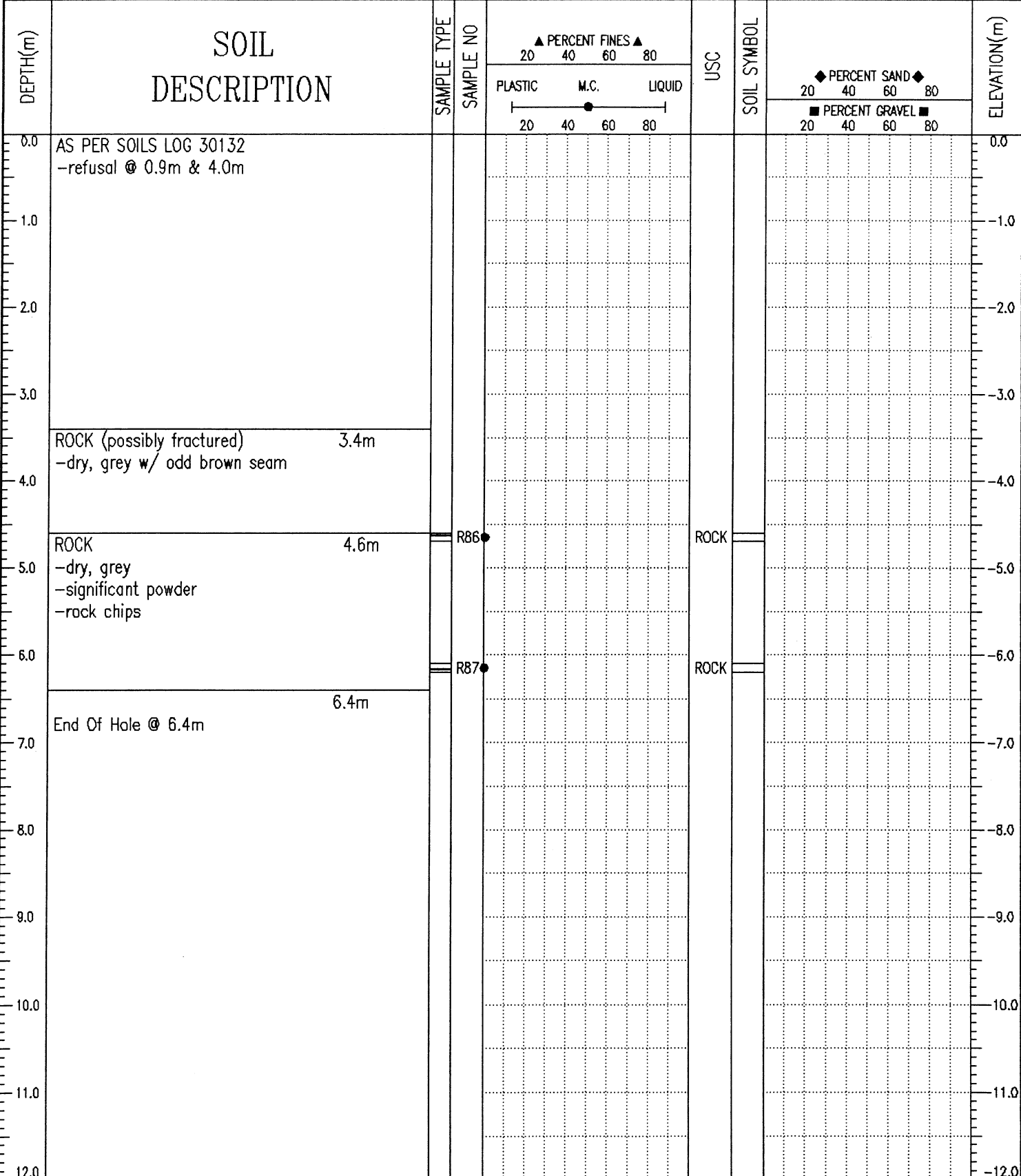
SAMPLE TYPE    RETURN    S.P.T.    AUGER    BULK    TUBE    CORE

DEPTH(m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		ELEVATION(m)
				PLASTIC	M.C.	LIQUID			20	40	
0.0	AS PER SOILS LOGS 30131 -refusal @ 4.0m both attempts										0.0
3.4	ROCK -dry, grey -significant powder -minimal rock chips		R84				ROCK				-4.0
4.9	AS ABOVE -increase rock chips										-5.0
6.1	End Of Hole @ 6.1m		R85				ROCK				-6.0
12.0											-12.0

05/02/10 07:42AM (YTG\_HHWS)

Geotechnical Services	Km 1691.7 to 1717.3 Alaska Highway #1	TEST PIT NO: 30132R
Midnight Sun Drilling Ltd.	UTM ZONE: - N6773786 E633333	PROJECT NO: 8002-318
Reverse Circulation Air Rotary Drill		ELEVATION:

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



J. R. Paine & Associates Ltd. Whitehorse, Yukon	LOGGED BY: RW	COMPLETION DEPTH: 6.4 m
	REVIEWED BY:	COMPLETE: 09/28/04
	Fig. No: 133	Page 1 of 1

Geotechnical Services Km 1691.7 to 1717.3 Alaska Highway #1 TEST PIT NO: 30133R

Midnight Sun Drilling Ltd. UTM ZONE: - N6773908 E633264 PROJECT NO: 8002-318

Reverse Circulation Air Rotary Drill ELEVATION:

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

DEPTH(m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		ELEVATION(m)
				PLASTIC	M.C.	LIQUID			20	40	
0.0	AS PER SOILS LOG 30133 -refusal @ 2.7m & 2.6m									0.0	
2.4	ROCK -dry, grey -significant powder -rock chips -more intact w/ depth										
4.0			R88				ROCK				
4.6	End Of Hole @ 4.6m										
12.0										-12.0	

J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW  
REVIEWED BY:  
Fig. No: 134

COMPLETION DEPTH: 4.6 m  
COMPLETE: 09/28/04

Geotechnical Services		Km 1691.7 to 1717.3 Alaska Highway #1		TEST PIT NO: 30134R					
Midnight Sun Drilling Ltd.		UTM ZONE: - N6774009 E633155		PROJECT NO: 8002-318					
Reverse Circulation Air Rotary Drill				ELEVATION:					
SAMPLE TYPE <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> S.P.T. <input checked="" type="checkbox"/> AUGER <input type="checkbox"/> BULK <input type="checkbox"/> TUBE <input type="checkbox"/> CORE									
DEPTH(m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES			USC	SOIL SYMBOL	ELEVATION(m)
				PLASTIC	M.C.	LIQUID			
0.0	AS PER SOILS LOG 30134 -refusal @ 2.7m & 1.5m							0.0	
1.0								-1.0	
2.0	ROCK 1.2m -dry, grey -significant powder -rock chips							-2.0	
			R89				ROCK		
3.0								-3.0	
4.0	End Of Hole @ 4.0m							-4.0	
			R90				ROCK		
5.0								-5.0	
6.0								-6.0	

J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW  
REVIEWED BY:  
Fig. No: 135

COMPLETION DEPTH: 4 m  
COMPLETE: 09/28/04

Geotechnical Services      Km 1691.7 to 1717.3 Alaska Highway #1      TEST PIT NO: 30135R  
 Midnight Sun Drilling Ltd.      UTM ZONE: - N6674140 E633064      PROJECT NO: 8002-318  
 Reverse Circulation Air Rotary Drill      ELEVATION:

SAMPLE TYPE     RETURN     S.P.T.     AUGER     BULK     TUBE     CORE

DEPTH(m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		PERCENT GRAVEL ■		ELEVATION(m)
				20	40	60			80	20	40	60	
0.0	AS PER SOILS LOG 30135 -refusal @ 1.5m & 3.0m												0.0
2.4	ROCK -possibly fractured -some brown sand infill -some powder												
3.7	ROCK -dry, grey -significant powder -rock chips -intact												
4.6	End Of Hole @ 4.6m		R91				ROCK						
6.0													6.0
7.0													7.0
8.0													8.0
9.0													9.0
10.0													10.0
11.0													11.0
12.0													12.0

J. R. Paine & Associates Ltd.  
 Whitehorse, Yukon

LOGGED BY: RW      COMPLETION DEPTH: 4.6 m  
 REVIEWED BY:      COMPLETE: 09/28/04  
 Fig. No: 136      Page 1 of 1

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

DEPTH(m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			ELEVATION(m)	
				PLASTIC	M.C.	LIQUID			20	40	60		80
0.0	AS PER SOILS LOG 30136 -refusal @ 2.1m both attempts												0.0
2.4	ROCK -dry, grey -significant powder -rock chips -more intact w/ depth		R92				ROCK						-3.0
4.6	End Of Hole @ 4.6m		R93				ROCK						-4.6
12.0													-12.0

J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW	COMPLETION DEPTH: 4.6 m
REVIEWED BY:	COMPLETE: 09/28/04
Fig. No: 137	Page 1 of 1

Km 1706+200 LHS Alaska Highway  
(Soldier's Summit Slide)

August 2004

J. R. Paine & Associates

Test Pit EseBase Logs  
(Hitachi 450EX Excavator)

Test Pits                    30072 to 30081



Geotechnical Services	Km 1691.7 to 1717.3 Alaska Highway #1	TEST PIT NO: 30072
Glacier Drilling	UTM ZONE: - N6768366 E634882	PROJECT NO: 8002-318
Hitachi 450EX Tracked Hoe	Soldier Summit	ELEVATION:

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

DEPTH(m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES			USC	SOIL SYMBOL	PERCENT SAND		PERCENT GRAVEL		ELEVATION(m)
				PLASTIC	M.C.	LIQUID			20	40	60	80	
0.0	Cobbles & Boulders, some silt, some sand -boulders to 1.0m dia. encountered -fracturing rock -boulders to 3.0m dia. adjacent to testpit on surface												0.0
1.0													-1.0
2.0													-2.0
3.0													-3.0
4.0													-4.0
5.0													-5.0
5.3	End Of Hole @ 5.3m												-5.3
6.0													-6.0

J. R. Paine & Associates Ltd. Whitehorse, Yukon	LOGGED BY: RW	COMPLETION DEPTH: 5.3 m
	REVIEWED BY:	COMPLETE: 07/26/04
	Fig. No: 148	Page 1 of 1

Geotechnical Services Km 1691.7 to 1717.3 Alaska Highway #1 TEST PIT NO: 30073

Glacier Drilling UTM ZONE: - N6768367 E635014 PROJECT NO: 8002-318

Hitachi 450EX Tracked Hoe Soldier Summit ELEVATION:

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

DEPTH(m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		ELEVATION(m)
				PLASTIC	M.C.	LIQUID			20	40	
0.0	BOULDERS/COBBLES -some surficial organics										0.0
	BOULDERS/COBBLES, some sand & silt 0.3m -boulders to 0.5m in dia. -boulders 30 to 40% by Vol.										
1.0											-1.0
2.0											-2.0
3.0											-3.0
4.0											-4.0
5.0											-5.0
5.3	End Of Hole @ 5.3m										-5.3
6.0											-6.0

J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: MF

REVIEWED BY:

Fig. No: 149

COMPLETION DEPTH: 5.3 m

COMPLETE: 07/29/04

Page 1 of 1

Geotechnical Services	Km 1691.7 to 1717.3 Alaska Highway #1	TEST PIT NO: 30074
Glacier Drilling	UTM ZONE: - N6768449 E634943	PROJECT NO: 8002-318
Hitachi 450EX Tracked Hoe	Soldier Summit	ELEVATION:

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

DEPTH(m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		ELEVATION(m)
				20	40	60			80	20	
0.0	BOULDERS/COBBLES -some surficial organics										0.0
	BOULDERS/COBBLES, some silt 0.3m -boulders encountered to 1.0m in dia. -boulders and cobbles 40 to 50% by Vol.										
1.0											-1.0
2.0											-2.0
3.0											-3.0
4.0											-4.0
5.0											-5.0
5.2	End Of Hole @ 5.2m										-5.2
6.0											-6.0

J. R. Paine & Associates Ltd. Whitehorse, Yukon	LOGGED BY: MF	COMPLETION DEPTH: 5.2 m
	REVIEWED BY:	COMPLETE: 07/29/04
	Fig. No: 150	Page 1 of 1

Geotechnical Services	Km 1691.7 to 1717.3 Alaska Highway #1	TEST PIT NO: 30075
Glacier Drilling	UTM ZONE: - N6768519 E634961	PROJECT NO: 8002-318
Hitachi 450EX Tracked Hoe	Soldier Summit	ELEVATION:

SAMPLE TYPE    RETURN    S.P.T.    AUGER    BULK    TUBE    CORE

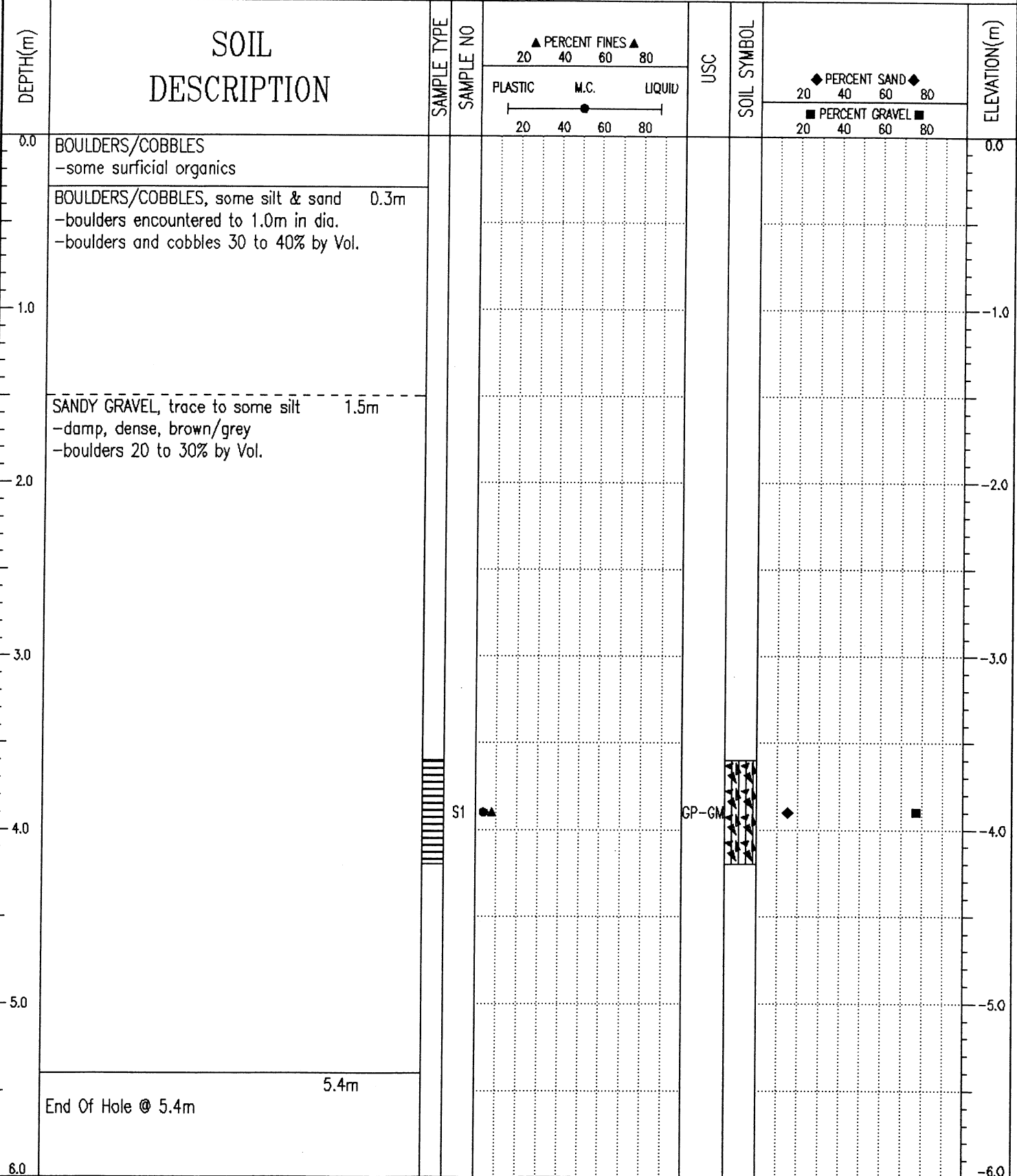
DEPTH(m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲ 20 40 60 80 ▲ PLASTIC      M.C.      LIQUID  ----- ----- -----  20      40      60      80	USC	SOIL SYMBOL	PERCENT SAND ◆ 20 40 60 80 ◆ PERCENT GRAVEL ■ 20 40 60 80 ■	ELEVATION(m)
0.0	BOULDERS/COBBLES -some surficial organics							0.0
0.3	BOULDERS/COBBLES, trace silt & sand -boulders encountered to 1.0m in dia. -boulders and cobbles 40 to 50% by Vol.							
1.0								-1.0
2.0								-2.0
3.0								-3.0
4.0								-4.0
5.0								-5.0
5.4	End Of Hole @ 5.4m							-5.4
6.0								-6.0

J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: MF	COMPLETION DEPTH: 5.4 m
REVIEWED BY:	COMPLETE: 07/29/04
Fig. No: 151	Page 1 of 1

Geotechnical Services Km 1691.7 to 1717.3 Alaska Highway #1 TEST PIT NO: 30076  
 Glacier Drilling UTM ZONE: - N6768523 E635054 PROJECT NO: 8002-318  
 Hitachi 450EX Tracked Hoe Soldier Summit ELEVATION:

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



J. R. Paine & Associates Ltd.  
 Whitehorse, Yukon

LOGGED BY: MF COMPLETION DEPTH: 5.4 m  
 REVIEWED BY: COMPLETE: 07/29/04  
 Fig. No: 152 Page 1 of 1

Geotechnical Services	Km 1691.7 to 1717.3 Alaska Highway #1	TEST PIT NO: 30077
Glacier Drilling	UTM ZONE: - N6768591 E634972	PROJECT NO: 8002-318
Hitachi 450EX Tracked Hoe	Soldier Summit	ELEVATION:
SAMPLE TYPE	<input type="checkbox"/> RETURN	<input checked="" type="checkbox"/> S.P.T.
	<input checked="" type="checkbox"/> AUGER	<input type="checkbox"/> BULK
	<input type="checkbox"/> TUBE	<input type="checkbox"/> CORE

DEPTH(m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆			ELEVATION(m)
				PLASTIC	M.C.	LIQUID			20	40	60	
0.0	BOULDERS/COBBLES -some surficial organics BOULDERS/COBBLES, some silt & sand 0.2m -boulders encountered to 1.0m in dia. -boulders and cobbles 30 to 40% by Vol.											0.0
1.0												-1.0
2.0												-2.0
3.0												-3.0
4.0												-4.0
5.0												-5.0
5.1	End Of Hole @ 5.1m											-5.1
6.0												-6.0

J. R. Paine & Associates Ltd. Whitehorse, Yukon	LOGGED BY: MF	COMPLETION DEPTH: 5.1 m
	REVIEWED BY:	COMPLETE: 07/31/04
	Fig. No: 153	Page 1 of 1

Geotechnical Services Km 1691.7 to 1717.3 Alaska Highway #1 TEST PIT NO: 30078

Glacier Drilling UTM ZONE: - N6768663 E634997 PROJECT NO: 8002-318

Hitachi 450EX Tracked Hoe Soldier Summit ELEVATION:

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

DEPTH(m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		ELEVATION(m)
				PLASTIC	M.C.	LIQUID			20	40	
0.0	BOULDERS/COBBLES -some surficial organics									0.0	
0.3	SILTY GRAVEL, some sand -boulders encountered to 1.5m in dia. -boulders and cobbles 50% by Vol.										
1.0											
2.0											
3.0											
4.0											
5.0	End Of Hole @ 5.0m										
6.0											

J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: MF

REVIEWED BY:

Fig. No: 154

COMPLETION DEPTH: 5 m

COMPLETE: 07/31/04

Page 1 of 1

Geotechnical Services Km 1691.7 to 1717.3 Alaska Highway #1 TEST PIT NO: 30079

Glacier Drilling UTM ZONE: - N6768745 E635028 PROJECT NO: 8002-318

Hitachi 450EX Tracked Hoe Soldier Summit ELEVATION:

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

DEPTH(m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	▲ PERCENT FINES ▲			USC	SOIL SYMBOL	◆ PERCENT SAND ◆		ELEVATION(m)
				PLASTIC	M.C.	LIQUID			20	40	
0.0	BOULDERS/COBBLES -surficial organics										0.0
0.0 - 0.3	SILTY SAND GRAVEL 0.3m -boulders encountered to 1.5m in dia. -boulders and cobbles 20% by Vol. -sample #S2 lost in transport										
0.3 - 5.1											
5.1	End Of Hole 5.1m										

J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: MF

REVIEWED BY:

Fig. No: 155

COMPLETION DEPTH: 5.1 m

COMPLETE: 07/31/04

Page 1 of 1

Geotechnical Services	Km 1691.7 to 1717.3 Alaska Highway #1	TEST PIT NO: 30080
Glacier Drilling	UTM ZONE: - N6768798 E635046	PROJECT NO: 8002-318
Hitachi 450EX Tracked Hoe	Soldier Summit	ELEVATION:

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE

DEPTH(m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE NO	PERCENT FINES ▲			USC	SOIL SYMBOL	PERCENT SAND ◆		PERCENT GRAVEL ■		ELEVATION(m)
				20	40	60			80	20	40	60	
0.0	BOULDERS/COBBLES, some sand, trace silt -boulders & cobbles 60 to 70% by Vol.												0.0
1.0	SANDY SILTY GRAVEL 0.3m -boulders encountered to 0.5m in dia. -boulders and cobbles 30 to 40% by Vol.												-1.0
2.0													-2.0
3.0													-3.0
4.0													-4.0
5.0	End Of Hole 5.0m												-5.0
6.0													-6.0

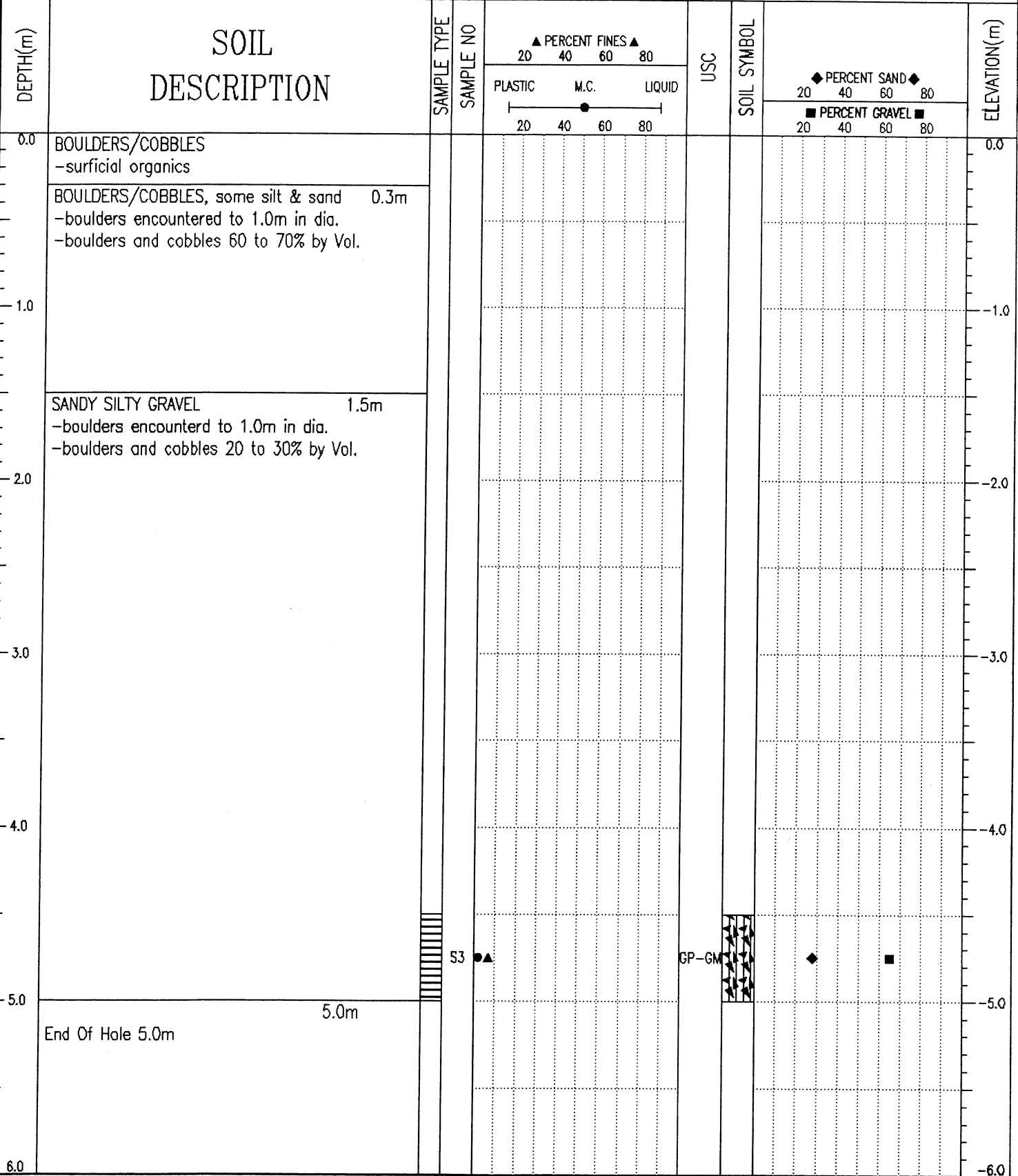
J. R. Paine & Associates Ltd. Whitehorse, Yukon	LOGGED BY: MF	COMPLETION DEPTH: 5 m
	REVIEWED BY:	COMPLETE: 07/31/04
	Fig. No: 156	Page 1 of 1

Geotechnical Services Km 1691.7 to 1717.3 Alaska Highway #1 TEST PIT NO: 30081

Glacier Drilling UTM ZONE: - N6768752 E635160 PROJECT NO: 8002-318

Hitachi 450EX Tracked Hoe Soldier Summit ELEVATION:

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: MF  
REVIEWED BY:  
Fig. No: 157  
COMPLETION DEPTH: 5 m  
COMPLETE: 07/31/04  
Page 1 of 1

Km 1699+700 LHS Alaska Highway

August 2004

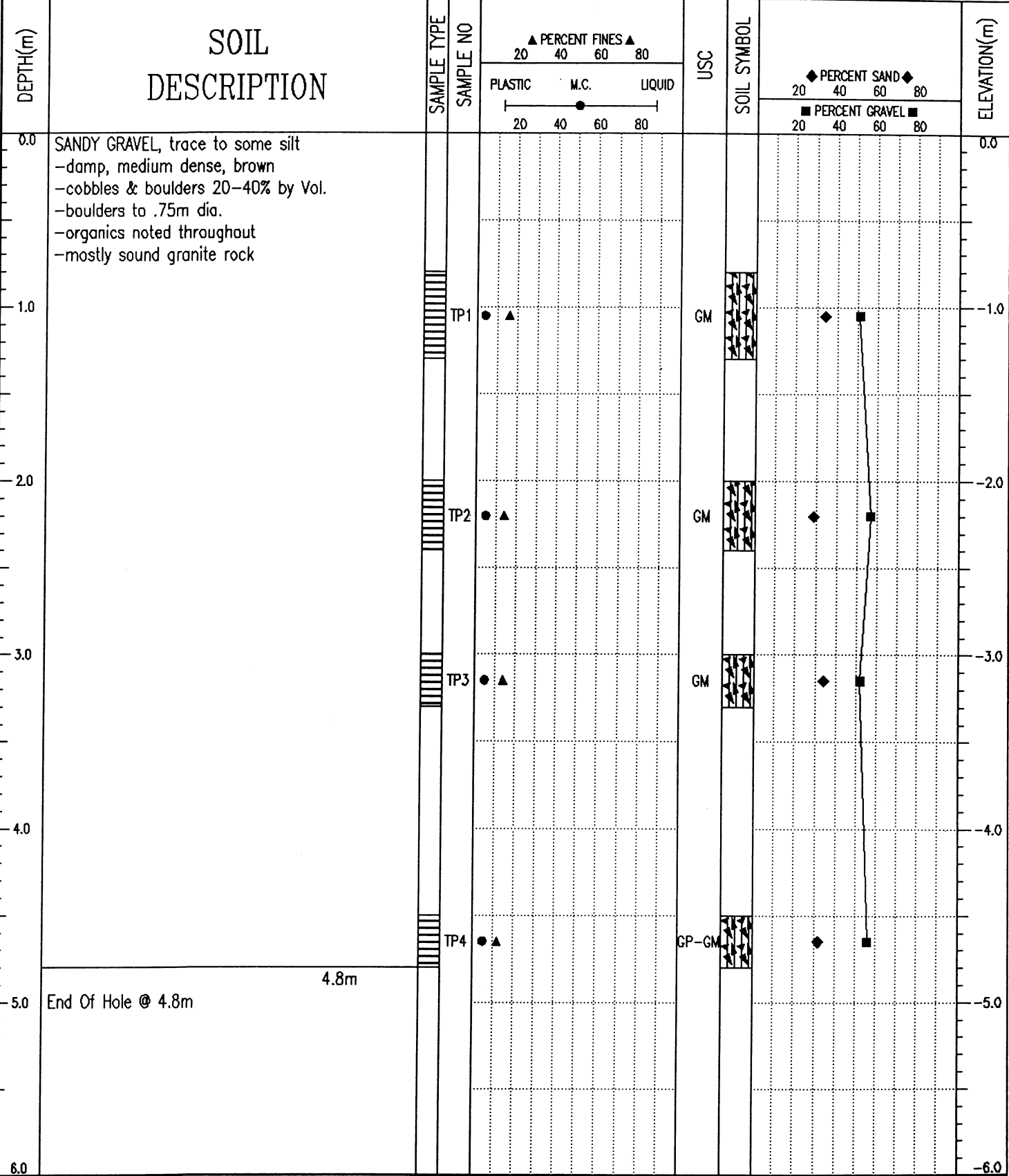
J. R. Paine & Associates

Test Pit EseBase Logs  
(Car 318C Excavator)

Test Pits                    30177 to 30179



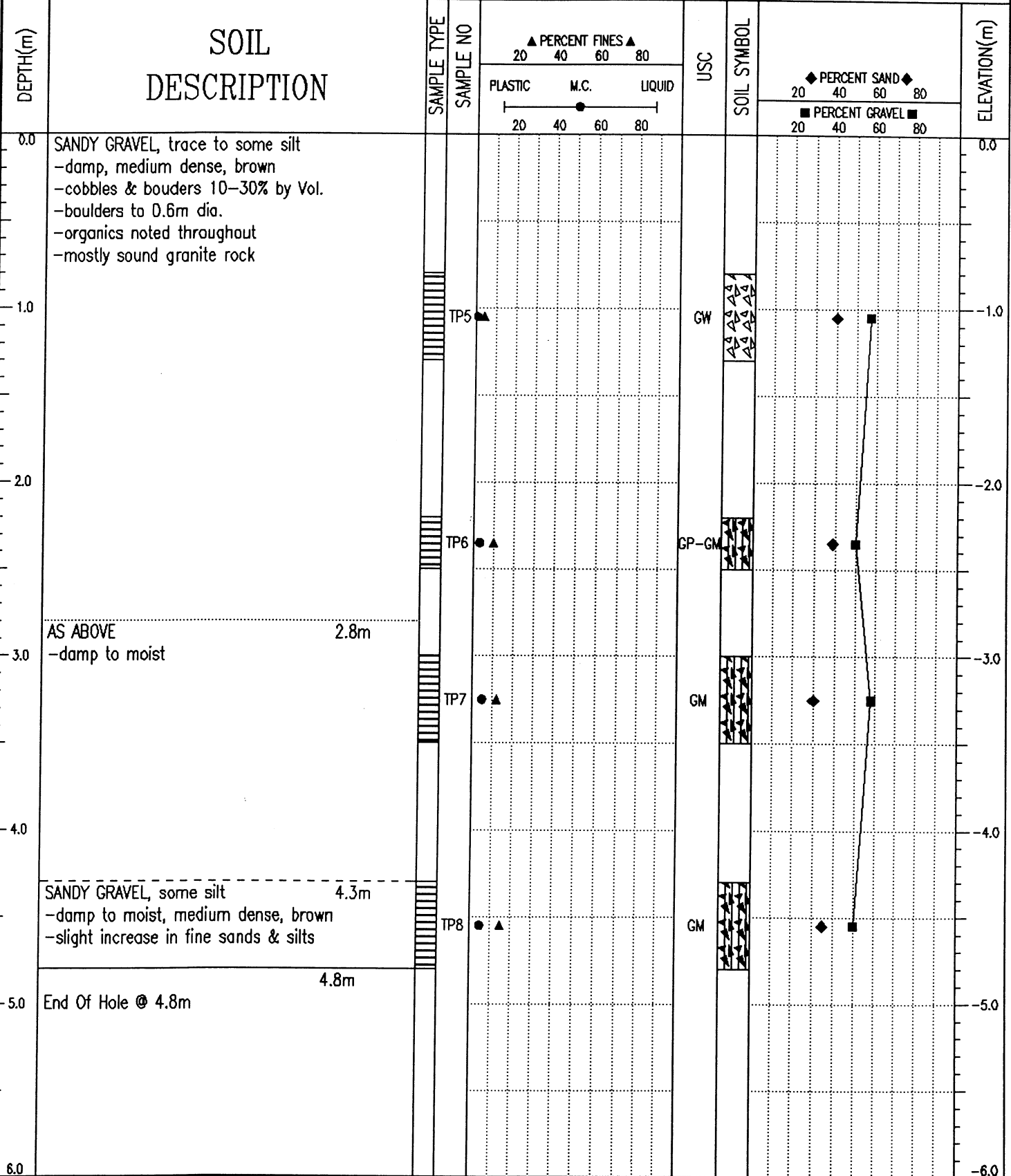
SAMPLE TYPE     RETURN     S.P.T.     AUGER     BULK     TUBE     CORE



J. R. Paine & Associates Ltd.  
 Whitehorse, Yukon

LOGGED BY: RW	COMPLETION DEPTH: 4.8 m
REVIEWED BY: -	COMPLETE: 08/10/04
Fig. No: 230	Page 1 of 1

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



J. R. Paine & Associates Ltd.  
Whitehorse, Yukon

LOGGED BY: RW

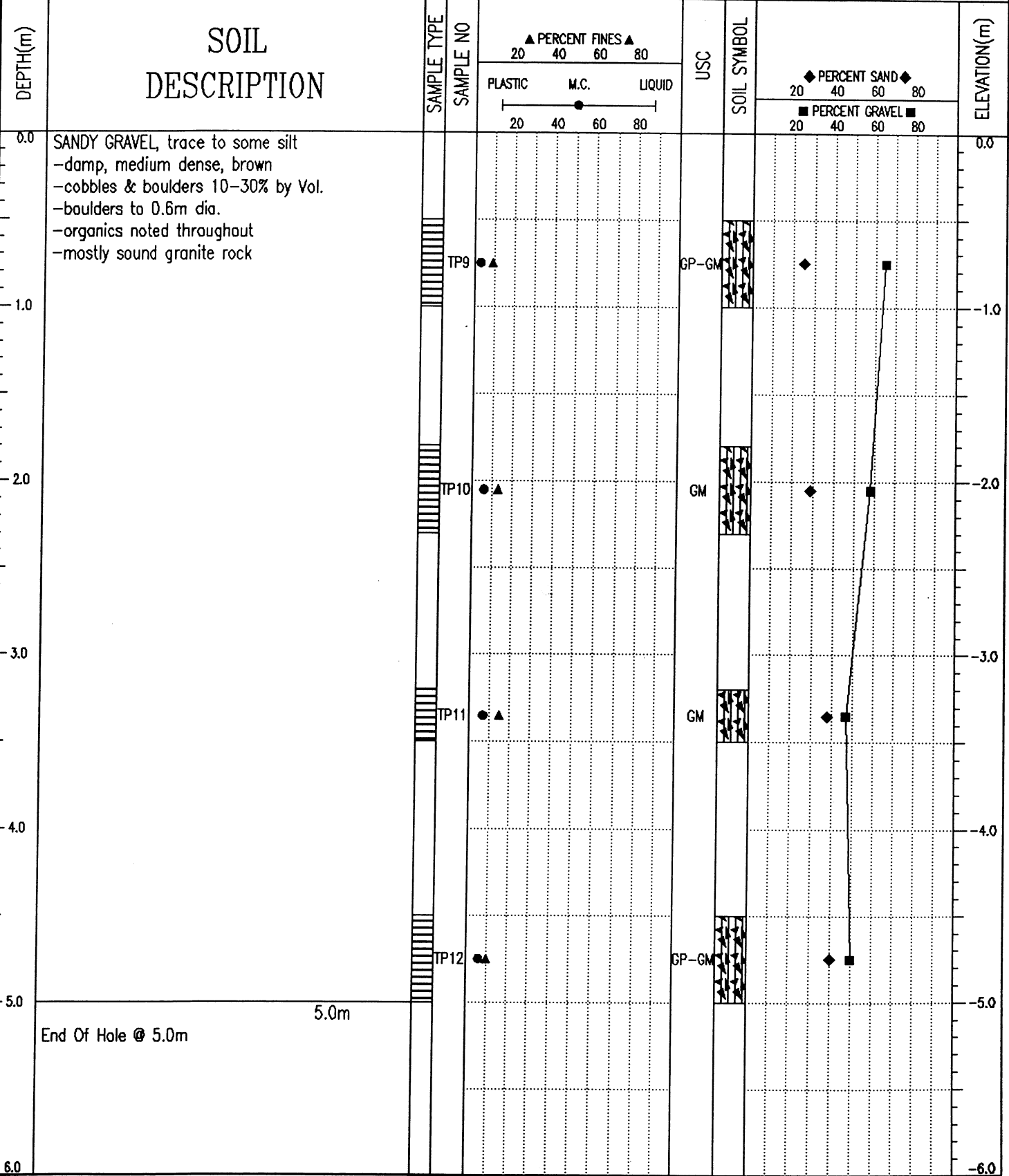
REVIEWED BY: -

Fig. No: 231

COMPLETION DEPTH: 4.8 m

COMPLETE: 08/10/04

SAMPLE TYPE  RETURN  S.P.T.  AUGER  BULK  TUBE  CORE



J. R. Paine & Associates Ltd.  
 Whitehorse, Yukon

LOGGED BY: RW	COMPLETION DEPTH: 5 m
REVIEWED BY: -	COMPLETE: 08/10/04
Fig. No: 232	Page 1 of 1