Appendix 1. Location of stratigraphic sections measured in the Mayo area, 1995-1998

Appendix 1a. Duncan Creek area, 1995-1998

Section name	NTS	Latitude Dec. deg. N	Longitude Dec. deg. W	Elevation feet	Geologists	Creek	Landform
DC1-95	105M/14	63°52.52	135°21.93	3140	WPL	Duncan	alluvial bench
DC2-95	105M/14	63°52.78	135°22.63	2920	WPL	Duncan	alluvial bench
UD9602	105M/14	63°52.64	135°18.45	3240	WPL/FJH	Upper Duncan	fluvial valley
FH9601	105M/14	63°52.21	135°11.48	4150	FJH	Upper Duncan	fluvial valley
FH9602	105M/14	63°52.64	135°18.45	3240	FJH	Upper Duncan	fluvial valley
FH9603	105M/14	63°52.52	135°20.60	2770	FJH	Upper Duncan	alluvial bench
FH9604	105M/14	63°48.30	135°29.52	2450	FJH	Duncan	alluvial bench
FH9605	105M/14	63°53.64	135°21.30	2880	FJH	Duncan	alluvial bench
FH9606	105M/14	63°49.27	135°28.91	2490	FJH	Duncan	alluvial bench
FH9607	105M/14	63°49.18	135°28.98	2480	FJH	Duncan	alluvial bench
FH9608	105M/14	63°50.36	135°38.00	2550	FJH	Duncan	alluvial bench
FH9609	105M/14	63°50.68	135°27.16	2600	FJH	Duncan	alluvial bench
FH9610	105M/14	63°51.13	135°26.31	2640	FJH	Duncan	alluvial bench
FH9611	105M/14	63°51.68	135°25.07	2660	FJH	Duncan	alluvial bench
FH9612	105M/14	63°52.74	135°22.65	2740	FJH	Duncan	paleo-alluvial fan
FH9614	105M/14	63°53.07	135°19.91	3030	FJH	Upper Duncan	fluvial valley
FH9616	105M/14	63°55.20	135°12.00	3700	FJH	Hope Gulch	gulch mouth
FH9617	105M/14	63°56.60	135°22.19	2770	FJH	Galena Hill	colluvial slope
FH9618	105M/14	63°53.97	135°15.07	3790	FJH	unnamed Tributary	gulch valley
FH9619 (1)	105M/14	63°54.00	135°14.77	3710	FJH	Thunder Gulch	gulch valley
FH9619 (2)	105M/14	63°54.08	135°14.92	3750	LCW	Thunder Gulch	gulch valley
FH9620	105M/14	63°48.90	135°28.81	2500	FJH	Duncan	fluvial valley
FT1-95	105M/14	63°48.57	135°29.20	2420	WPL	Duncan	fluvial valley
FT2-95	105M/14	63°48.63	135°29.07	2420	WPL	Duncan	fluvial valley
FT3-95	105M/14	63°48.72	135°29.05	2420	WPL	Duncan	fluvial valley
FT4-95	105M/14	63°48.78	135°29.00	2420	WPL	Duncan	fluvial valley
FT5-95	105M/14	63°48.88	135°28.90	2380	WPL	Duncan	fluvial valley
FT6-95	105M/14	63°48.88	135°28.87	2460	WPL	Duncan	fluvial valley
FT7-95	105M/14	63°47.32	135°30.35	2480	WPL	Duncan	fluvial valley
FT8-95	105M/14	63°47.53	135°30.05	2320	WPL	Duncan	fluvial valley
General	105M/14	63°52.64	135°18.45	3300	FJH	Upper Duncan	fluvial valley
General	105M/14	63°52.65	135°18.46	3180	FJH	Upper Duncan	fluvial valley
General	105M/14	63°52.63	135°18.36	3225	FJH	Upper Duncan	fluvial valley
General	105M/14	63°52.64	135°18.44	3250	FJH	Upper Duncan	fluvial valley
HB1-95	105M/14	63°53.05	135°19.50	3350	WPL	Upper Duncan	fluvial valley
HB2-95	105M/14	63°52.63	135°18.43	3220	WPL	Upper Duncan	fluvial valley
HB3-95	105M/14	63°52.63	135°52.63	3320	WPL	Upper Duncan	fluvial valley
HB4-95	105M/14	63°53.47	135°20.57	2940	WPL	Upper Duncan	fluvial valley
LW9601	105M/14	63°52.61	135°18.36	3235	LCW	Upper Duncan	alluvial terrace
LW9602	105M/14	63°52.64	135°18.45	3160	LCW	Upper Duncan	fluvial valley
LW9603	105M/14	63°53.08	135°19.88	3170	LCW	Upper Duncan	fluvial valley
LW9604	105M/14	63°53.05	135°19.83	3120	LCW	Upper Duncan	fluvial valley wall
LW9605	105M/14	63°52.21	135°11.48	4150	LCW	Upper Duncan	fluvial valley
LW9607	105M/14	63°47.53	135°30.05	2320	LCW	Duncan	alluvial terrace
LW9608A	105M/14	63°50.51	135°27.47	2550	FJH	Duncan	alluvial terrace
WL9603	105M/14	63°48.88	135°28.87	2460	LCW/WPL	Duncan	alluvial valley
UD9701	105M/14	63°53.36	135°20.48	3000	WPL, TLA, EK	Upper Duncan	alluvial terrace
UD9702	105M/14	63°53.36	135°20.48	3000	WPL, TLA, EK	Upper Duncan	alluvial terrace
UD9703	105M/14	63°53.28	135°20.25	3000	WPL, TLA, EK	Upper Duncan	alluvial terrace
FT97-01	105M/14	63°49.01	135°28.56	2480	WPL	Duncan	alluvial valley
FT98-1-1	105M/14	63°49.08	135°28.50	2480	WPL	Duncan	alluvial valley
FT98-1-2	105M/14	63°49.08	135°28.50	2480	WPL/MS	Duncan	alluvial valley
FT98-1-3	105M/14	63°49.08	135°28.50	2480	WPL/MS	Duncan	alluvial valley

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Appendix 1b. Mayo Lake area, 1995-1997

Section name	NTS	Latitude Dec. deg. N	Longitude Dec. deg. W	Elevation feet	Geologists	Creek	Landform
FH9621	105M/11	63°44.85	135°25.65	2680	FJH	Davidson	canyon
FH9622	105M/11	63°44.00	135°25.50	2600	FJH	Davidson	canyon
LW9606	105M14	63°47.64	135°14.35	2450	LCW	Dirksen	fan delta
MW1-95	105M/11	63°43.67	135°01.57	2400	WPL	Anderson	canyon
AC9701	105M/11	63°43.78	135°01.54	2320	WPL, DM, TLA	Anderson	alluvial fan-delta
Ledge Ck	105M/10	63°41.50	134°51.50	2500	FJH	Ledge	alluvial fan apex
RB1-95	105M/10	63°40.62	134°50.67	2450	WPL	Ledge	alluvial fan apex
LDG97-01	105M/10	63°40.90	134°50.34	2800	TLA, DM, LM	Ledge	canyon/alluvial fan
LDG97-02	105M/10	63°40.63	134°50.49	2450	LM, DM	Ledge	alluvial fan apex
LDG97-03	105M/10	63°40.63	134°50.49	2500	TLA, DM	Ledge	canyon/alluvial fan
DVD9701	105M/11	63°43.76	135°25.09	2400	TLA, JB	Davidson	canyon
DVD9702	105M/11	63°43.85	135°25.12	2400	TLA, JB	Davidson	canyon
DVD9703	105M/11	63°43.85	135°25.12	2400	TLA, DP	Davidson	canyon

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Appendix 1c. Highet Creek/Minto Lake area, 1995-1997

Section name	NTS	Latitude Dec. deg. N	Longitude Dec. deg. W	Elevation feet	Geologists	Creek	Landform
FE1-95	115P/16	63°45.92	136°12.82	3450	WPL	Highet	fluvial valley
FH9615	115P/9	63°44.20	136°05.20	2580	FJH	Highet	fluvial valley
HT1-95	115P/16	63°45.85	136°10.72	2980	WPL	Highet	fluvial valley
HT2-95	115P/9	63°43.93	136°07.82	2500	WPL	Highet	fluvial valley
HT3-95	115P/9	63°43.88	136°07.77	2500	WPL	Highet	fluvial valley
KK1-95	115P/16	63°45.92	136°11.52	3125	WPL	Highet	alluvial terrace
MP1-95	115P/9	63°44.27	136°08.58	2560	WPL	Highet	fluvial valley
WL961-2	115P/9	63°44.40	136°08.50	2565	WPL	Highet	alluvial valley
HCR9701	105M/12	63°43.33	135°59.47	2070	TA, DM	Minto	alluvial terrace
HCR9702	115P/9	63°43.43	136°00.12	2100	TA, DM	Minto/Roaring Fork	alluvial terrace
HCR9703	115P/9	63°43.45	136°03.04	2180	TA, DM	Minto	alluvial terrace
HCR9704	115P/9	63°45.68	136°11.83	3290	TA, LM	Highet/Rudolf	alluvial valley
MIC9701	115P/9	63°43.14	136°07.68	2500	TA	McIntyre	alluvial valley
MIC9702	115P/9	63°43.17	136°07.24	2450	TA	McIntyre	alluvial valley
MIC9703	115P/9	63°43.16	136°07.38	2500	TA, MS	Minto	glaciofluvial terrace
MIC9704	115P/9	63°42.93	136°06.93	2300	TA, MS	Minto	glaciofluvial terrace
MIC9705	115P/9	63°42.93	136°06.93	2300	TA, MS	Minto	glaciofluvial terrace
MIC9706	115P/9	63°42.93	136°06.93	2300	TA, MS	Minto	glaciofluvial terrace
MIC9707	115P/9	63°43.23	136°07.24	2550	TA, MS	Minto	glaciofluvial terrace
MIC9708	115P/9	63°42.31	136°07.96	2350	TA, MS	Minto	glaciofluvial terrace
MIC9709	115P/9	63°42.22	136°08.04	2400	TA, MS	Minto	glaciofluvial terrace
MIC9710	115P/9	63°42.01	136°07.87	2300	TA, MS	Minto	glaciofluvial terrace
MIC9711	115P/9	63°42.18	136°08.10	2400	TA, DM	Minto	glaciofluvial terrace
MLN9701	115P/9	63°42.53	136°13.39	2800	TA, DM	McLagan	alluvial valley
MLN9702	115P/9	63°41.70	136°13.57	2400	TA, DM	McLagan	alluvial valley
RUD9701	115P/16	63°40.77	136°11.57	3350	TA, LM	Rudolph	gulch
N.BEAR9601	115P/9	63°41.26	136°20.97	2450	WPL, LCW	North Bear	gulch
N.BEAR9602	115P/9	63°41.25	136°20.97	2400	WPL, LCW	North Bear	gulch
BEAR9701	115P/9	63°41.33	136°20.82	2400	WPL, TA, LM	North Bear	gulch
BEAR9702	115P/9	63°41.33	136°21.12	2450	WPL, TA, LM	North Bear	gulch

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Appendix 1d. Haggart Creek area, 1995-1997

Section name	NTS	Latitude Dec.deg. N	Longitude Dec.deg. W	Elevation feet	Geologists	Creek	Landform
RH1-95-2	106D/4	64°01.03	135°51.18	2530	WPL	Haggart	remnant moraine
RH2-95-1	106D/4	64°00.90	135°51.07	2540	WPL	Haggart	alluvial valley
LW9701	106D/4	64°00.92	135°50.88	2500	LW, LM	Haggart	alluvial valley
LW9702	106D/4	64°00.80	135°50.88	2475	LW, LM	Haggart	alluvial valley
LW9703	106D/4	64°00.85	135°50.88	2485	LW, LM	Haggart	alluvial valley
LW9704	106D/4	64°00.72	135°50.88	2450	LW, LM	Haggart	alluvial valley
LW9705	106D/4	64°00.70	135°50.88	2450	LW, LM	Haggart	alluvial valley
LW9706	106D/4	64°00.82	135°50.88	2480	LW, LM	Haggart	alluvial valley
LW9707	106D/4	64°00.95	135°50.88	2520	LW, LM	Haggart	alluvial valley
LW9708	106D/4	64°00.95	135°50.88	2520	LW, LM	Haggart	alluvial valley
LW9709	106D/4	64°01.68	135°51.25	2440	LW, LM	Haggart	alluvial valley
LW9710	106D/4	64°01.68	135°51.25	2440	LW, LM	Haggart	alluvial valley
LW9711	106D/4	64°01.65	135°51.25	2445	LW, LM	Haggart	alluvial valley
LW9712	106D/4	64°01.60	135°51.20	2420	LW, LM	Haggart	alluvial valley
LW9713	106D/4	64°01.53	135°51.12	2410	LW, LM	Haggart	alluvial valley
LW9714	106D/4	64°01.63	135°51.18	2415	LW, LM	Haggart	alluvial valley
LW9715	106D/4	64°01.02	135°50.88	2520	LW, LM	Haggart	alluvial valley
LW9716	106D/4	64°02.40	135°52.07	2800	LW, LM	Haggart	alluvial valley
LW9717	106D/4	64°02.38	135°52.15	2825	LW, LM	Haggart	alluvial valley
LW9718	106D/4	64°02.13	135°49.55	2890	LW, LM	Haggart	alluvial valley
LW9719	106D/4	64°02.07	135°49.25	2975	LW, LM	Haggart	colluvial apron
LW9720	106D/4	64°02.00	135°49.68	2825	LW, LM	Haggart	alluvial valley
LW9721	106D/4	64°02.00	135°49.78	2790	LW, LM	Haggart	periglacial fan
LW9722	106D/4	64°01.87	135°50.18	2750	LW, LM	Haggart	remnant moraine
LW9723	106D/4	64°01.83	135°51.43	2720	LW, LM	Haggart	alluvial valley
LW9724	106D/4	64°00.53	135°51.18	2430	LW, LM	Haggart	colluvium
LW9725	106D/4	64°00.53	135°51.18	2420	LW, LM	Haggart	alluvial valley
LW9726	106D/4	64°00.43	135°51.18	2435	LW, LM	Haggart	alluvial valley
LW97275	106D/4	64°00.43	135°51.18	2400	LW, LM	Haggart	alluvial valley
GILL 3	106D/4	64°01.63	135°51.18	2415	LW, FH	Gill Gulch	alluvial valley
GILL 4	106D/4	64°01.68	135°51.25	2440	LW, FH	Gill Gulch	alluvial valley

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Appendix 1e. South McQuesten/Seattle Creek area, 1995-1997

Section name	NTS	Latitude Dec. deg. N	Longitude Dec. deg.W	Elevation feet	Geologists	Creek	Landform
DK1-95	115P/16	63°49.38	136°04.13	2550	WPL	Seattle	periglacial alluvial fan
KK2-95	115P/16	63°55.60	136°11.55	2375	WPL	Goodman	periglacial alluvial fan
SEA9701	115P/16	63°49.28	136°04.04	2600	TA, WPL	Seattle	periglacial alluvial fan
SEA9702	115P/16	63°49.28	136°04.04	2550	TA, WPL	Seattle	periglacial alluvial fan
SEA9703	115P/16	63°49.28	136°04.03	2550	TA, WPL	Seattle	periglacial alluvial fan
SEA9704	115P/16	63°49.28	136°04.03	2550	TA, WPL	Seattle	periglacial alluvial fan
SEA9705	115P/16	63°49.38	136°04.01	2550	TA, WPL	Seattle	periglacial alluvial fan
GDM9701	115P/16	63°54.65	136°09.69	2100	TA, WPL, DP	Goodman	periglacial alluvial fan
GDM9702	115P/16	63°54.36	136°09.37	2050	TA, WPL, DP	Goodman	periglacial alluvial fan
ROD9701	115P/16	63°53.15	136°17.78	2500	WPL, TA, DM	Rodin	periglacial alluvial fan

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Appendix 2. Heavy mineral analysis, additional notes

FT2-95-1/1 Duncan Creek Duncan Section 2 Unit 1 (bottom)
Very interesting sample due to the presence of euhedral arsenopyrite crystals with striated faces. Some of the arsenopyrite crystals are in quartz matrix. There is abundant limonite coated pyrite. Five small grains of scheelite were noted under shortwave ultraviolet light. Also 5-10% of the sample consists of fresh, euhedral unoxidized pyrite. About 1-5% of the pyrite shows a purple iridescent tarnish. One brownish yellow striated twinned crystal which might be cassiterite was observed. Orange-yellow limonite-coated grains comprise 10-20% of the sample.

FT2-95-1/2 Duncan Creek Duncan Section 2 Unit 1 (top)
Mainly rock fragments. Four rounded nuggets of gold from 1.0 mm to <0.2 mm.

FT295-2 Duncan Creek Duncan Section 2 Unit 2
Mainly rock fragments.

FT2-95-3 Duncan Creek Duncan Section 2 Unit 3
Mix of many different mineral and rock grains. Abundant rock fragments.

FT2-95-5 Duncan Creek Duncan Section 2 Unit 5
Grain size of sample is consistent. Under ultraviolet light, there are 20 small grains which fluoresce moderate green-yellow under both longwave and shortwave light. The grains are white to clear in overhead light, tabular, and display at least one good cleavage. Might be celestite? ($SrSO_4$).

FT2-95-7 Duncan Creek Duncan Section 2 Unit 7
Mainly rock fragments, ilmenite.

FT2-95-9 Duncan Creek Duncan Section 2 Unit 9
Ilmenite, nice gemmy pink garnets.

FT2-95-10 Duncan Creek Duncan Section 2 Unit 10
Very low heavy mineral yield.

FT2-95-13 Duncan Creek Duncan Section 2 Unit 13
Mainly light coloured minerals and rock fragments. Also get 1-2% euhedral fresh to slightly oxidized pyritohedrons.

FT3-95-1/1 Duncan Creek Unit 1 (pay)
Many grains are coated with limonite. The two gold grains are rounded and flattened. There is one grain which fluoresces blue-white under both longwave and shortwave ultraviolet light. Under visible light the same grain is a very thin white plate which is sectile and has a pearly lustre – brucite?

FT3-95-1/1 Duncan Creek Unit 1 (pay) bottom
Pyritiferous concentrate. Sample contains 10-20% platy black mineral with white alteration rim; this is most likely a leucoxene coating on ilmenite. Leucoxene is an amorphous chemically variable titanium oxide which is gray to white and forms as a result of alteration of titanium-rich minerals. Between 10 to 15 grains fluoresce medium-faint white, slightly blue under longwave and shortwave ultraviolet light and are white under visible light (mineral is unidentified). The <3.32 fraction contains abundant pyrophyllite? or talc?.

FT3-95-1/2 Duncan Creek Unit 1 Area 2
One thin flake gold.

FT3-95-1/3 Duncan Creek Unit 1 Area 3
Three flat, rounded gold flakes; the largest is 0.05 mm.

FT3-95-1/4 Duncan Creek Unit 1 Area 4
Abundant ilmenite. Garnet is the next most abundant mineral (5-10%), then magnetite (2-4%). Trace amounts of zircon and pyrite were noted. This sample strongly resembles FT3-95-1/5 and FT3-95-1/6.

FT3-95-1/5 Duncan Creek Unit 1 Area 5
This sample is very similar to FT3-95-1/4 and FT3-95-1/6.

FT3-95-1/6 Duncan Creek Unit 1 Area 6
Sample is very similar to FT3-95-1/4 and FT3-95-1/5.

FT4-95-1 Duncan Creek Duncan Section 4 Unit 1 – organic?
Up to 10% limonite. There is 5-15% pyrite content, of which 2-5% are goethite/hematite pseudomorphs after pyrite.

FT4-95-5 Duncan Creek Duncan Section 4 Unit 5 – organic?
Very low yield. Mainly rock fragments.

FT8-95-1 Duncan Creek Duncan Creek bank section lower unit
Sample consists mainly of rock fragments and ilmenite, with minor magnetite. There are two gold grains; one is a flattened leaf, relatively crystalline. The other gold grain is elongated leafy gold, relatively crystalline, perched on a limonite-coated, rusty mineral grain (pyrite?).

FT8-95-7 Duncan Creek Bend section contact lower/upper till
Resembles other Duncan Creek samples (ilmenite, minor magnetite); noted 1 small bright scarlet red grain (unidentified).

Taylor Pay Unit near Bedrock Duncan Creek
Sample contains mainly rock fragments (40-70%) and ilmenite (30-50%). A total of four gold grains were noted; three small rounded grains 0.2 mm and one larger subrounded, irregular shaped elongated grain 1.2 mm. Sample also contained 2-5% euhedral, lustrous pyrite.

DC1-95-1 Duncan Creek 40 Pup Bench Duncan Unit 1
Ilmenite, trace goethite/hematite psuedomorphs after pyrite.

DC1-95-2 Duncan Creek 40 Pup Bench Duncan Unit 2
Very low yield.

HB2-95-1 Upper Duncan Creek Barchans old cut – multiple tills
Very interesting sample. Mainly ilmenite and magnetite, but also get pyrite and an unidentified grey sulphide mineral.

HB2-95-2 Upper Duncan Creek Barchans old cut – multiple tills
Varied mix of minerals and rocks. Garnet, ilmenite, rock fragments.

HB2-95-3 Upper Duncan Creek Barchans old cut – multiple tills
Mix of minerals and rock fragments. Same as HB2-95-2.

HB4-95-1 Upper Duncan Creek Upper Duncan Canyon Section Gravel
Contains 2-3% pyrite, 20-50% ilmenite.

UD971-01 Pay Gravel – (vial a) Section UD971 Upper Duncan Creek
Garnetiferous (35-45%) with ilmenite (30-40%) and magnetite (10-20%). Moderate limonite coating on most grains.

UD971-01 Pay Gravel – (vial b) Section UD971 Upper Duncan Creek
Well-rounded grains with thick brownish yellow limonitic coating. Mainly schistose rock fragments (60-80%). Sample contains two rounded gold grains, 0.3 to 0.5 mm.

UD971-02 Section UD971 Upper Duncan Creek
Sample is composed mainly of schistose rock fragments (50-60%), ilmenite (15-30%) and goethite replacements after pyrite (10-20%). Sample contains one grain of scheelite (1.5 mm).

UD971-05 Section UD971 Upper Duncan Creek
Mainly ilmenite (30-40%), rock fragments (20-30%) and garnet (20-30%).

UD973-03 Section UD9703 Upper Duncan Creek
Hematite/Goethite replacements after pyrite (25-45%) and schistose rock fragments (30-50%).

FH-9619-01 Section FH9619 Thunder Gulch
Very low yield of heavy minerals; mainly rock fragments (40-60%). Lustrous pyrite cubes 2-5%.

FH-9619-02 Section FH9619 Thunder Gulch
Sample consists mainly of magnetite (20-30%), ilmenite (25-35%) and rock fragments (10-20%). Also, 5-10% granular to crystalline white translucent crystals (zoisite?).

FH-9619-04 Section FH9619 Thunder Gulch
Mineral grains in the sample are coated with limonite. Sample consists mainly of rock fragments (50-70%).

FH-9619-05 Section FH9619 Thunder Gulch
Sample consists mainly of rock fragments (35-55%), magnetite (20-30%), ilmenite (15-25%), oxidized cubic pyrite (5-10%) and possible white zoisite (3-5%).

FH-9619-02-08 Section FH9619-02 Thunder Gulch
Sample consists mainly of rock fragments (30-50%) and ilmenite (30-50%).

FE1-95-1 Highet Creek F. Erl Unit 1 – Orange gravel
Ilmenite-rich. Mineral grains are coated with limonite.

FE1-95-2 Highet Creek F. Erl Unit 2 – Organic silt
Sample is composed of mostly tabular ilmenite grains.

FE1-95-3 Highet Creek F. Erl Unit 3
Sample is 80-95% ilmenite.

HT3-95-1 Highet Creek Highet Creek band section near old cabin
Mainly ilmenite and magnetite. There are five subrounded to rounded flattened gold grains; the largest is 0.06 mm.

KK1-95-1 Highet Creek Highet Creek Klippert Unit 1
There are 20 gold grains (about 1% of sample). The largest gold grain is 1 mm and very flat. The gold grains are subcrystalline to subrounded. There are 25 grains scheelite (about 1% of sample). The sample is mainly composed of ilmenite (90-95%). Approximately 10% of the ilmenite is coated by leucoxene.

KK1-95-2B Highet Creek Highet Creek Klippert Unit 2
Almost 100% tabular ilmenite.

KK1-95-3 Highet Creek Highet Creek Klippert Unit 3
Mainly ilmenite, trace oxidized pyritohedrons.

MP1-95-1 Highet Creek Merrill Powers Pit Unit 1 clay/bedrock
Mostly limonite coated rock fragments.

MP1-95-2 Highet Creek Merrill Powers Pit Unit 2 – Pay gravel
Gold grains comprise 5-15% of the sample; the largest grain is 2 mm. Most of the gold grains are flat and rounded; some are subrounded. One scheelite grain and small zircon grains are visible under ultraviolet light. Schistose rock fragments comprise 10-20% of the sample.

WL96-02 Highet Creek
Most grains have a brown coating. Sample is mainly ilmenite (60-80%). There is one subcrystalline gold grain 0.2 mm. Sample contains up to 1% zircon.

RUD9701-01 Section RUD9701 Rudolph Gulch
Almost entirely ilmenite (95-98%). Ilmenite grains are angular, 0.25 to 1.0 mm. Sample also contains scheelite (1-3%) and three rounded gold grains 0.3 to 0.5 mm.

RUD9701-02 Section RUD9701 Rudolph Gulch
Same as RUD-97-01-01. Almost entirely ilmenite (95-98%), with trace to 1% scheelite. Sample also contains 1 mass of yellow gold 1.0 mm with leafy to subcrystalline form and a smaller crystalline gold piece 0.3 mm.

RUD9701-03 Section RUD9701 Rudolph Gulch
Same as RUD-97-01-01 and RUD-97-01-02. Ilmenite-rich (95-98%). Also contains scheelite (1-2%).

MIC9701-04 Section MIC9701 McIntyre Creek
Mainly ilmenite (60-70%) with minor garnet. Some brass shavings in the sample.

MIC9701-05 Section MIC9701 McIntyre Creek
Similar to MIC-97-01-04.

MIC9702-01 Section MIC9702 McIntyre Creek
Mainly rock fragments (50-70%), ilmenite (20-30%) and garnet (10-25%). Contains trace scheelite and 5-10% staurolite.

MIC9704-01 Section MIC9704 McIntyre Creek
Heavy limonitic coating over most grains. Mainly rock fragments (50-70%). Lustrous pyrite cubes (2-3%).

MIC9704-02 Section MIC9704 McIntyre Creek
Mainly ilmenite with garnet. One rounded gold grain 0.8 mm and one smaller subcrystalline grain 0.4 mm noted.

MIC9705-01 Section MIC9705 McIntyre Creek
Sample is mainly ilmenite, rock fragments, garnet and magnetite. One rounded gold grain 0.3 mm. Trace amounts of scheelite.

MIC9706-01 Section MIC9706 McIntyre Creek
Mainly ilmenite (30-40%) with magnetite (15-25%). Also garnet, rock fragments, and goethite pseudomorphs after pyrite. Ilmenite grains are coated with leucoxene. Other grains are lightly coated with limonite. There are three rounded gold grains, 0.3 mm to 0.7 mm and trace amounts of scheelite. One grain sillimanite.

MIC9708-01 Section MIC9707 McIntyre Creek
Mainly ilmenite (25-50%) and rock fragments (25-50%). Also get lustrous pyrite cubes (tr to 1%) averaging 0.5 mm in addition to goethite pseudomorphs after pyrite (5-10%). There are four rounded gold grains about 0.4 mm. Scheelite is present in trace amounts.

MIC9709-07 Section MIC9709 McIntyre Creek
Resembles MIC-97-08-01, but has more pyrite. Sample is mainly ilmenite (15-25%), rock fragments (15-25%) and garnet (15-25%). Lustrous pyrite cubes (10%) and slightly oxidized pyrite (10-15%) are present in addition to goethite pseudomorphs after pyrite (5-10%).

MIC9710-02 Section MIC9710 McIntyre Creek
Sample contains mainly ilmenite (40-60%), rock fragments (30-40%), garnet (10-20%) and magnetite (10-15%). Trace amounts of lustrous pyrite.

MIC9710-06 Section MIC9710 McIntyre Creek
Sample contains mainly rock fragments (30-60%), ilmenite (20-40%), garnet (10-20%) and magnetite (5-10%).

MLN9701-01 Section MLN9701 McLagan Creek
Mainly magnetite (35-45%) and rock fragments (25-45%). Bronze artifact.

MLN9702-01 Section MLN9702 McLagan Creek
Mainly ilmenite (35-45%), magnetite (25-35%) and rock fragments (15-25%). Bronze and silvery metallic artifacts.

DK1-94-1A Seattle Creek Dan Klipperts Pay Sample
Gold grains are up to 1.2 mm and are sub-rounded.

DK1-94-1B Seattle Creek Dan Klipperts Pay Sample
Mostly rock fragments and ilmenite.

DK1-95-1 Seattle Rusty gravel Unit 1
Abundant rock fragments; mainly mafic schist. Sample is black and yellow and exhibits a “salt and pepper” look. One grain is intense white-green under longwave and moderate under shortwave. In visible light, the grain is white, platy, friable (brucite?, talc?).

SEA9701-01 Section SEA9701 Seattle Creek
Mainly ilmenite (40-50%) and rock fragments (40-50%). Sample also contains lustrous cubic pyrite (2-3%).

SEA9701-02 Section SEA9701 Seattle Creek
Ilmenite (50-70%) and rock fragments (30-50%) are the main constituents. Also get one subhedral 0.2 mm gold grain, 10 grains of scheelite and several shavings of brass and another metallic artifact. This sample contains scheelite (trace) and fewer lustrous pyrite cubes than in SEA-97-01-01.

SEA9701-03 Section SEA9701 Seattle Creek
Sample contains mainly ilmenite (70-90%) and rock fragments (10-20%), with 10 grains scheelite (<tr). Artificial artifacts (shavings).

SEA9703-02 Section SEA9703 Seattle Creek
Mainly ilmenite (70-85%) and magnetite (20-30%). There are three rounded grains of gold; one is 1.0 mm, and the other two are 0.4 to 0.5 mm. Trace amounts of scheelite was noted.

SEA9705-02 Section SEA9705 Seattle Creek
Mainly ilmenite (75-90%). One rounded gold grain 1.0 mm and trace amounts of scheelite.

BEAR9702-01 Section BEAR9702 Upper Bear Creek
Mainly rock fragments (25-35%), magnetite (20-30%) and ilmenite (15-25%). One grain of scheelite was noted and one rounded grain gold 0.4 mm.

Goodman Creek Unit 1 Section Goodman Cr. Goodman Creek
Sample contains magnetite (20-40%) and schistose rock fragments (30-50%). Lustrous cubic pyrite (tr-1%).

Goodman Creek Unit 2 Section Goodman Cr. Goodman Creek
Sample contains magnetite (30-40%), ilmenite (20-30%) and rock fragments (20-30%). Sample contains two grains of scheelite.

Goodman Creek Unit 3 Section Goodman Cr. Goodman Creek
Sample contains magnetite (20-30%) and trace amounts of scheelite. Also contains unidentified lustrous, euhedral greenish mineral (pyroxene?).

ROD-97-01-01 Section ROD971 Rodin Creek
Very well sorted grains, average 0.2 mm. Mainly ilmenite (40-50%), granite and schistose rock fragments (10-25%), and magnetite (10-20%).

ROD-97-01-02 Section ROD971 Rodin Creek
Sample contains 40-60% ilmenite. Sample is well-sorted. Very similar to ROD-97-01-01.

ROD-97-01-03 Section ROD971 Rodin Creek
Very similar to ROD-97-01-03 and ROD-97-01-04. Sample contains ilmenite (50-60%), rock fragments (10-20%) and magnetite (10-20%).

ROD-97-01-04 Section ROD971 Rodin Creek
Sample contains ilmenite (40-50%), rock fragments (20-30%) and magnetite (5-15%) in addition to two rounded gold grains 1.7 mm and 0.5 mm. Very similar to ROD-97-01-01,02,03.

AC9701-01 Section AC9701 Andersen Creek
Sample consists mainly of magnetite (40-60%) and ilmenite (25-40%).

AC9701-03 Section AC9701 Andersen Creek
Mainly mica-ilmenite schist rock fragments (20-35%), ilmenite (25-35%) and magnetite (10-25%).

RB1-95-1B Ledge Ledge Creek sediment sample
The sample size was very small. No magnetite was recovered. Most of the grains are rock fragments; mainly mafic schist. One 0.03 mm scheelite grain was visible under ultraviolet light. There is one brownish yellow transparent to translucent twinned crystal (unidentified).

LDG9701-01 Section LDG9701 Ledge Creek
Sample contains mainly ilmenite (50-70%) and rock fragments (20-40%). One rounded gold grain 0.3 mm was noted.

LDG9702-01 Section LDG9702 Ledge Creek
Mainly ilmenite (40-60%) and rock fragments (35-40%). Two gold grains were noted; one rounded 0.3 mm and one crystalline, euhedral grain 0.4 mm. Trace amounts of scheelite were noted.

LDG9703-01 Section LDG9703 Ledge Creek
Sample consists mainly of ilmenite-bearing schistose rock fragments (60-80%) and ilmenite (20-30%). Sample contains trace amounts of scheelite.

DVD9701-01 Section DVD9701 Davidson Creek
Sample is mainly magnetite (45-55%) and ilmenite (40-50%). One rounded gold grain 0.3 mm was noted.

DVD9702-01 Section DVD9702 Davidson Creek
Sample is mainly ilmenite (40-60%) and magnetite (20-30%). Three rounded 0.3 mm grains of gold were noted. One scheelite grain was noted.

DVD9703 DVD9703 Davidson Creek
Sample is mainly magnetite (40-60%) and ilmenite (25-35%). Three subrounded grains of gold 0.2 to 0.4 mm were noted.

DVD9703-03 DVD9703 Davidson Creek
Sample is mainly magnetite (60-70%) and ilmenite (20-30%).

Davidson Creek Pay Unit Blue Clay
Sample contains ilmenite (25-35%), magnetite (25-35%) and lustrous cubic pyrite (5-10%).

LW-97-01(a) Unit 1 Haggart Creek
Interesting sample; contains almost 100% sulphide fragments consisting of 50% pyrite and 50% arsenopyrite. About 50% of the sulphide fragments are pyrite, and the other half are arsenopyrite. At least ten grains of irregular to flattened subrounded gold were noted. Sulphide grains are euhedral and range up to 3 mm in size.

LW-97-01(b) Unit 1 Haggart Creek
Pyritiferous sample (euhedral pyrite up to 50%). Up to 1% of the pyrite grains are coated with copper staining (Cu, Pb). Grains in the sample are coated with limonite. Trace amounts of arsenopyrite noted.

LW-97-04 Unit 1 Haggart Creek
Pyritiferous sample (70-90% pyrite). Arsenopyrite (<1%) was noted in addition to boulangerite (trace), malachite (mal) and scheelite (<<tr).

LW-97-05 Unit 1 Haggart Creek
Rock grains are thickly coated with limonite, sample contains mainly of rock fragments (40-60%). Very minor scheelite noted.

LW-97-15 Unit 4 Haggart Creek
Mainly ilmenite (40-60%) and rock fragments (2-3%). Scheelite content is 2-3%. Contains 2-3% lustrous, untarnished pyrite fragments.

LW-97-26 Unit 1 Haggart Creek
Almost entire rock fragments (90-95%). Scheelite content is 1%.

LW-97-27 Unit 1 Haggart Creek
Sample is almost 100% sulphides. Pyrite content is 30-50%. Contains 30-50% arsenopyrite, 1-2% scheelite and 1% cassiterite.

LW-97-20 Base of Unit 1 Dublin Gulch
Sample contains mainly scheelite (55-65%) and rock fragments (25-35%). Zircon content is 2-3%.

Dublin Gulch LW-97-21 Unit 1
Interesting sample. Sample is mainly 55-60% scheelite and contains abundant (7-15%) rutile. There are seven grains of gold 0.2 to 0.6 mm; six pieces are crystalline gold, some in quartz, and the other is subrounded gold in quartz. The gold is very fresh, appears to have weathered from a nearby source. One fragment of arsenopyrite was noted.

LW-97-22 Unit 1 Dublin Gulch
Sample is mainly schistose rock fragments (75-95%). Minor scheelite (<tr) was noted.

LW-97-22 Unit 2 Dublin Gulch
Sulphide-rich sample. Contains 25-30% pyrite, 5-15% arsenopyrite, 1% boulangerite (acicular, metallic grey) and 2-5% siderite.

LW-97-09 Unit 1 Gill Gulch
Sample consists mainly of rock fragments (60-90%) and scheelite (5-15%). Contains manganese garnets of andradite-spessartine composition.

LW-97-10 Unit 1 Gill Gulch
Grains in sample have a thin limonitic coating. Mainly rock fragments (80-90%) and scheelite (5-10%).

LW-97-12 Unit 1 Gill Gulch
Interesting sample. Mainly rock fragments (60-90%). Also contains one grain bright yellow subcrystalline gold, 0.4 mm. Contains 1% anatase, trace crystalline cassiterite and one corundum crystal. The corundum crystal has six-sided columnar form, subadamantine lustre, light grey colour. Rutile content is 2-5%.

LW-97-14 Unit 1 Gill Gulch
Mainly rock fragments (60-80%), ilmenite (5-15%) and scheelite (5-10%). Contains 1-2% massive limonitic fragments.

Gill 4 Unit 1 Gill Gulch
Sample consists mainly of goethite pseudomorphs after pyrite (50-60%). Sample also contains scheelite (5-15%).

LW-97-16 Unit 1 (a) Fisher Gulch
Sample consists of schistose rock fragments (50-80%). Sample contains 2-5% orange-brown euhedral cassiterite and black massive goethite with radiating habit.

LW-97-17 Unit 1 (b) Fisher Gulch
Grains in sample are coated with limonite. Sample contains 3-5% euhedral yellowish-brown, lustrous cassiterite and 3-5% massive reddish brown goethite. Sample consists mainly of schistose rock fragments (80-90%).

Appendix 3. Trace element geochemistry

ICP-AES Detection limits for gold and 32 elements

Element	Range	Element	Range	Element	Range
Aluminum (Al)	0.01 – 15%	Gallium (Ga)	10 ppm – 1%	Potassium (K)	0.1 – 10%
Antimony (Sb)	2 ppm – 1%	Gold (Au)	5 – 10 000 ppb	Scandium (Sc)	1 ppm – 1%
Arsenic (As)	2 ppm – 1%	Iron (Fe)	0.01 – 15%	Silver (Ag)	0.2 – 100 ppm
Barium (Ba)	10 ppm – 1%	Lanthanum (La)	10 ppm – 1%	Sodium (Na)	0.01 – 10%
Beryllium (Be)	0.5 – 100 ppm	Lead (Pb)	2 ppm – 1%	Strontium (Sr)	1 ppm – 1%
Bismuth (Bi)	2ppm – 1%	Magnesium (Mg)	0.01 – 15%	Thallium (Tl)	10 ppm – 1%
Cadmium (Cd)	0.2 – 100 ppm	Manganese (Mn)	5 ppm – 1%	Titanium (Ti)	0.01 – 10%
Calcium (Ca)	0.01 – 15%	Mercury (Hg)	1 ppm – 1%	Tungsten (W)	10 ppm – 1%
Chromium (Cr)	1 ppm – 1%	Molybdenum (Mb)	1 ppm – 1%	Uranium (U)	10 ppm – 1%
Cobalt (Co)	1 ppm – 1%	Nickel (Ni)	1 ppm – 1%	Vanadium (V)	1 ppm – 1%
Copper (Cu)	1 ppm – 1%	Phosphorus (P)	10 ppm – 1%	Zinc (Zn)	2 ppm – 1%

Stream	Sample number	Location UTM	Au ppb	Ag ppb	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm
Secret Creek	JB96-05	450500 E 7094900 N	20	1	1	12	130	< 0.5	< 2	0	< 0.5	7	13	14	2	< 10	< 1
Right fork of Secret Creek	JB96-06	450600 E 7094950 N	<5	< 0.2	1	36	150	< 0.5	< 2	0	< 0.5	11	15	21	2	< 10	< 1
Right fork of Ironrust Creek	JB96-07	457300 E 7104100 N	<5	< 0.2	1	12	210	< 0.5	< 2	0	< 0.5	11	14	14	2	< 10	1
Ironrust Creek	JB96-08	457200 E 7103950 N	<5	< 0.2	1	16	230	< 0.5	< 2	0	1	16	13	19	3	< 10	< 1
Fisher Creek	JB96-10	457500 E 7101600 N	<5	< 0.2	1	34	130	< 0.5	< 2	0	< 0.5	10	14	22	2	< 10	< 1
Ray Gulch	JB96-19	464750 E 7099100 N	<5	< 0.2	2	232	180	< 0.5	< 2	1	< 0.5	13	27	24	3	< 10	< 1
No name tributary to Lynx Creek	JB96-20	462700 E 7098000 N	<5	< 0.2	2	192	380	< 0.5	< 2	0	< 0.5	22	27	22	3	< 10	< 1
No name tributary to Lynx Creek	JB96-21	464250 E 7098700 N	30	< 0.2	2	188	190	< 0.5	< 2	1	< 0.5	12	25	19	3	< 10	< 1
MacNeil Creek	JB96-22	492800 E 7087300 N	65	0	1	54	90	< 0.5	< 2	0	< 0.5	5	11	17	1	< 10	< 1
Parent Creek	JB96-23	480750 E 7078300 N	<5	< 0.2	1	8	280	< 0.5	< 2	0	2	30	15	25	3	< 10	< 1
Parent Creek	JB69-24	479400 E 7078400 N	<5	< 0.2	1	6	190	< 0.5	< 2	0	3	31	13	26	2	< 10	< 1
No name tributary to Eagle Creek	JB96-25	468250 E 7121100 N	<5	< 0.2	1	6	660	< 0.5	< 2	0	< 0.5	13	18	39	3	< 10	< 1
No name tributary to Eagle Creek	JB96-26	468000 E 7120200 N	<5	< 0.2	1	4	1040	< 0.5	< 2	0	< 0.5	16	13	64	3	< 10	< 1
No name tributary to Steamboat Lake	JB96-29	468300 E 7115350 N	<5	< 0.2	1	6	200	< 0.5	< 2	0	< 0.5	12	16	29	3	< 10	< 1
No name tributary to Steamboat Lake	JB96-30	469500 E 7116500 N	<5	< 0.2	1	2	310	< 0.5	< 2	1	< 0.5	13	21	32	3	< 10	< 1
No name tributary to Steamboat Lake	JB96-31	469850 E 7117800 N	<5	< 0.2	1	4	380	< 0.5	< 2	1	< 0.5	12	21	29	3	< 10	1
No name tributary to Eagle Creek	JB96-32	464750 E 7120650 N	<5	< 0.2	1	4	460	< 0.5	< 2	0	1	16	17	24	3	< 10	< 1
No name tributary to Eagle Creek	JB96-33	465000 E 7120000N	<5	< 0.2	1	2	490	< 0.5	< 2	0	< 0.5	6	13	10	2	< 10	< 1
No name tributary to Upper Duncan	JB96-34	488450 E 7120000 N	<5	< 0.2	1	8	160	< 0.5	< 2	0	< 0.5	8	13	21	2	< 10	< 1
No name tributary to Upper Duncan	JB96-35	487350 E 7081850 N	<5	< 0.2	1	10	170	< 0.5	< 2	0	2	8	14	26	2	< 10	< 1
Forty Pup	JB96-38	483600 E 7081100 N	<5	< 0.2	1	10	120	< 0.5	< 2	0	< 0.5	9	15	16	3	< 10	< 1
Forty Pup	JB96-39	482800 E 7081900 N	<5	< 0.2	1	10	100	< 0.5	< 2	0	< 0.5	8	12	12	2	< 10	< 1
Forty Pup	JB96-40	481200 E 7082700 N	<5	< 0.2	1	10	110	< 0.5	< 2	0	< 0.5	9	13	16	2	< 10	< 1
Lynx Creek	JB96-41	461200 E 7097150 N	20	< 0.2	1	60	190	< 0.5	< 2	0	1	10	17	15	2	< 10	< 1
Lynx Creek	JB96-42	459850 E 7096250 N	<5	< 0.2	1	58	180	< 0.5	< 2	0	1	9	17	15	2	< 10	< 1
Haggart Creek	JB96-43	458000 E 7096200 N	45	< 0.2	1	74	190	< 0.5	< 2	0	< 0.5	10	16	20	2	< 10	< 1
No name tributary to Keystone Creek	JB96-44	491750 E 7077200 N	<5	< 0.2	1	72	70	< 0.5	< 2	0	< 0.5	10	11	19	3	< 10	< 1
No name tributary to Keystone Creek	JB96-45	493950 E 7078500 N	<5	1	1	52	230	< 0.5	< 2	0	1	14	20	31	3	< 10	< 1
No name tributary to Keystone Creek	JB96-46	494000 E 7078250 N	<5	< 0.2	1	28	100	< 0.5	< 2	0	< 0.5	13	24	31	3	< 10	< 1
No name tributary to Granite Creek	JB96-47	497200 E 7079300 N	25	0	2	36	320	< 0.5	< 2	0	2	22	33	39	3	< 10	< 1
Upper Granite Creek	JB96-48	496750 E 7080700 N	20	1	1	128	150	< 0.5	< 2	0	1	11	25	34	3	< 10	< 1
No name tributary to Keystone Creek	JB96-49	490900 E 7076200 N	10	< 0.2	1	46	260	< 0.5	< 2	0	2	11	13	28	3	< 10	< 1
Red Creek	JB96-51	443750 E 7094050 N	<5	< 0.2	1	12	180	< 0.5	< 2	0	2	21	13	16	3	< 10	< 1
No name tributary to Red Creek	JB96-52	438500 E 7092700 N	<5	< 0.2	1	10	190	< 0.5	< 2	0	< 0.5	9	16	15	2	< 10	< 1
Faro Gulch	JB96-53	492200 E 7092650 N	235	66	1	534	120	< 0.5	< 2	0	10	16	12	114	4	< 10	< 1
No name tributary to Corkery Creek	JB96-54	470800 E 7081150 N	55	0	1	1190	530	< 0.5	< 2	1	< 0.5	14	27	15	4	< 10	< 1
No name tributary to Corkery Creek	JB96-55	470750 E 7080600 N	15	< 0.2	2	108	530	< 0.5	< 2	1	< 0.5	18	34	30	5	< 10	< 1
Edmonton Creek	JB96-56	509000 E 7071000 N	80	< 0.2	1	12	140	< 0.5	< 2	0	1	19	19	28	3	< 10	< 1
No name tributary to Mayo Lake	JB96-57	494300 E 7072800 N	<5	< 0.2	1	10	100	< 0.5	< 2	0	< 0.5	6	13	13	2	< 10	< 1
Keystone Creek	JB96-58	489750 E 7073700 N	<5	< 0.2	1	28	160	< 0.5	< 2	0	< 0.5	7	14	18	2	< 10	< 1
Silver Basin Gulch	JB96-60	492150 E 7092650 N	20	1	1	98	200	< 0.5	< 2	0	3	18	15	78	3	< 10	< 1
Right fork of Upper Red Creek	JB96-61	447600 E 7106800 N	15	< 0.2	1	2	140	< 0.5	< 2	0	< 0.5	13	13	14	2	< 10	< 1
Left fork of Upper Red Creek	JB96-62	447300 E 7106800 N	<5	< 0.2	1	< 2	200	< 0.5	< 2	0	< 0.5	12	16	16	2	< 10	< 1
Red Creek	JB96-63	444800 E 7101850 N	<5	< 0.2	1	2	170	< 0.5	< 2	0	< 0.5	13	15	17	3	< 10	< 1

Stream	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
Secret Creek	0	30	0	250	< 1	< 0.01	16	510	18	2	1	22	0	< 10	< 10	20	< 10	72
Right fork of Secret Creek	0	30	0	395	1	< 0.01	21	570	28	2	2	24	0	< 10	< 10	23	< 10	84
Right fork of Ironrust Creek	0	20	0	370	1	< 0.01	21	560	10	< 2	2	29	0	< 10	< 10	24	< 10	62
Ironrust Creek	0	20	0	1385	1	< 0.01	29	480	26	< 2	1	17	0	< 10	< 10	23	< 10	128
Fisher Creek	0	30	0	400	1	< 0.01	18	430	30	2	1	18	0	< 10	< 10	20	< 10	78
Ray Gulch	0	20	1	420	2	< 0.01	26	580	12	< 2	4	47	0	< 10	< 10	41	10	84
No name tributary to Lynx Creek	0	30	1	1440	2	< 0.01	25	520	8	< 2	4	37	0	< 10	< 10	44	< 10	94
No name tributary to Lynx Creek	0	20	1	325	3	< 0.01	22	630	10	< 2	4	45	0	< 10	< 10	37	10	76
MacNeil Creek	0	10	0	275	1	< 0.01	13	370	16	< 2	1	9	0	< 10	< 10	16	< 10	54
Parent Creek	0	30	0	555	1	< 0.01	41	600	14	< 2	1	25	0	< 10	< 10	23	< 10	262
Parent Creek	0	30	0	695	1	< 0.01	65	550	10	< 2	1	25	0	< 10	< 10	19	< 10	320
No name tributary to Eagle Creek	0	30	0	545	1	< 0.01	32	540	16	< 2	1	52	0	< 10	< 10	20	< 10	108
No name tributary to Eagle Creek	0	20	0	1140	3	< 0.01	39	540	16	< 2	1	55	< 0.01	< 10	< 10	16	< 10	106
No name tributary to Steamboat Lake	0	30	1	1020	1	< 0.01	26	610	12	< 2	1	37	0	< 10	< 10	24	< 10	76
No name tributary to Steamboat Lake	0	30	1	605	1	< 0.01	29	670	12	< 2	3	61	0	< 10	< 10	28	< 10	98
No name tributary to Steamboat Lake	0	20	1	460	2	< 0.01	31	670	10	< 2	2	60	0	< 10	< 10	30	< 10	98
No name tributary to Eagle Creek	0	10	0	555	1	< 0.01	47	620	14	< 2	1	35	< 0.01	< 10	< 10	19	< 10	160
No name tributary to Eagle Creek	0	10	0	445	1	< 0.01	16	1090	6	< 2	1	28	0	< 10	< 10	20	< 10	60
No name tributary to Upper Duncan	0	20	0	565	1	< 0.01	18	500	10	< 2	1	15	0	< 10	< 10	21	< 10	60
No name tributary to Upper Duncan	0	30	0	485	3	< 0.01	42	630	16	< 2	1	26	0	< 10	< 10	22	< 10	194
Forty Pup	0	30	0	455	1	< 0.01	21	540	14	< 2	1	22	0	< 10	< 10	21	< 10	100
Forty Pup	0	20	0	365	< 1	< 0.01	16	420	12	44	1	20	0	< 10	< 10	16	< 10	58
Forty Pup	0	30	0	265	1	< 0.01	17	720	12	8	1	28	0	< 10	< 10	21	< 10	66
Lynx Creek	0	20	0	595	2	0	20	730	14	< 2	2	33	0	< 10	< 10	27	< 10	96
Lynx Creek	0	10	0	530	1	0	19	710	12	< 2	2	29	0	< 10	< 10	26	< 10	90
Haggart Creek	0	20	0	525	1	< 0.01	21	570	28	6	1	27	0	< 10	< 10	23	< 10	80
No name tributary to Keystone Creek	0	30	1	425	1	< 0.01	20	520	14	2	1	37	0	< 10	< 10	11	< 10	72
No name tributary to Keystone Creek	0	10	0	510	2	< 0.01	67	650	14	< 2	1	17	0	< 10	< 10	21	< 10	176
No name tributary to Keystone Creek	0	30	1	460	1	< 0.01	46	640	16	< 2	2	22	0	< 10	< 10	19	< 10	118
No name tributary to Granite Creek	0	10	0	670	2	< 0.01	39	800	16	< 2	3	22	0	< 10	< 10	42	< 10	164
Upper Granite Creek	0	10	0	415	3	< 0.01	33	1000	26	< 2	3	24	0	< 10	< 10	34	< 10	124
No name tributary to Keystone Creek	0	40	0	445	3	< 0.01	54	590	16	10	1	27	< 0.01	< 10	< 10	22	< 10	226
Red Creek	0	20	0	825	1	< 0.01	36	420	18	2	1	24	0	< 10	< 10	22	< 10	164
No name tributary to Red Creek	0	40	0	780	1	< 0.01	21	540	18	< 2	1	30	0	< 10	< 10	23	< 10	78
Faro Gulch	0	10	0	2620	7	< 0.01	32	1220	>10 000	74	1	29	0	< 10	< 10	16	< 10	818
No name tributary to Corkery Creek	0	20	1	2660	1	< 0.01	25	770	34	6	3	62	0	< 10	< 10	32	< 10	114
No name tributary to Corkery Creek	0	20	1	1275	1	< 0.01	36	690	22	4	4	82	0	< 10	< 10	38	< 10	118
Edmonton Creek	0	30	0	325	1	< 0.01	38	560	6	< 2	1	18	0	< 10	< 10	34	< 10	160
No name tributary to Mayo Lake	0	10	0	240	1	< 0.01	14	490	8	< 2	1	18	0	< 10	< 10	19	< 10	46
Keystone Creek	0	30	0	290	1	< 0.01	22	570	10	8	1	21	0	< 10	< 10	18	< 10	92
Silver Basin Gulch	0	10	1	1645	5	< 0.01	42	870	94	2	1	26	< 0.01	< 10	< 10	17	< 10	302
Right fork of Upper Red Creek	0	40	0	285	1	< 0.01	23	480	12	< 2	1	24	0	< 10	< 10	22	< 10	96
Left fork of Upper Red Creek	0	30	0	415	1	< 0.01	19	490	14	< 2	1	31	0	< 10	< 10	24	< 10	72
Red Creek	0	30	0	285	1	< 0.01	20	410	14	< 2	1	29	0	< 10	< 10	19	< 10	78

Stream	Sample number	Location UTM	Au ppb	Ag ppb	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm
Fisher Creek	JB96-65	444800 E 7124250 N	<5	< 0.2	1	4	800	< 0.5	< 2	0	< 0.5	11	19	38	3	< 10	< 1
Fisher Creek	JB96-66	443150 E 7122250 N	<5	< 0.2	1	2	560	< 0.5	< 2	1	1	11	15	27	3	< 10	< 1
Sluice Creek	JB96-67	449600 E 7116200 N	<5	< 0.2	1	10	2140	< 0.5	< 2	0	1	12	14	42	3	< 10	< 1
Sluice Creek	JB96-68	447800 E 7114900 N	<5	< 0.2	1	6	2890	< 0.5	< 2	0	1	9	14	37	3	< 10	< 1
No name tributary to Ballard Creek	JB96-69	427100 E 7099600 N	<5	< 0.2	1	2	250	< 0.5	< 2	1	< 0.5	7	17	14	2	< 10	< 1
Ballard Creek	JB96-70	426800 E 7099800 N	<5	< 0.2	1	< 2	320	< 0.5	< 2	0	< 0.5	9	18	14	2	< 10	< 1
No name tributary to the E. McQuesten River	JB96-71	433900 E 7106750 N	<5	< 0.2	1	< 2	260	< 0.5	< 2	0	< 0.5	8	15	15	2	< 10	< 1
No name tributary to the E. McQuesten River	JB96-72	437900 E 7105500 N	<5	< 0.2	1	< 2	240	< 0.5	< 2	1	< 0.5	8	17	16	2	< 10	1
Larsen Creek	JB96-73	428900 E 7111250 N	<5	< 0.2	1	4	260	< 0.5	< 2	0	< 0.5	10	16	18	2	< 10	< 1
No name tributary to the E. McQuesten River	JB96-74	438000 E 7113500 N	<5	< 0.2	1	2	270	< 0.5	< 2	1	< 0.5	9	18	13	2	< 10	1
No name tributary to the E. McQuesten River	JB96-75	437900 E 7113750 N	<5	< 0.2	1	< 2	160	< 0.5	< 2	0	< 0.5	8	16	14	2	< 10	< 1
No name tributary to the E. McQuesten River	JB96-76	433850 E 7125000 N	25	< 0.2	1	< 2	180	1	< 2	0	< 0.5	9	18	19	3	< 10	< 1
No name tributary to the E. McQuesten River	JB96-77	433800 E 7124750 N	<5	< 0.2	1	4	190	< 0.5	< 2	0	< 0.5	9	18	15	2	< 10	< 1
No name tributary to the E. McQuesten River	JB96-78	442450 E 7117400 N	<5	< 0.2	1	< 2	190	< 0.5	< 2	0	< 0.5	8	17	14	2	< 10	< 1
No name tributary to the E. McQuesten River	JB96-79	453250 E 7121150 N	<5	0	2	10	2690	< 0.5	< 2	1	4	12	15	60	3	< 10	< 1
No name tributary to Sluice Creek	JB96-80	452950 E 7121250 N	<5	< 0.2	1	6	3610	< 0.5	< 2	0	1	13	16	37	2	< 10	< 1
Davidson Creek	JB96-81	469000 E 7067000 N	<5	< 0.2	0	4	80	< 0.5	< 2	1	< 0.5	5	7	8	1	< 10	< 1
Christie Creek	JB96-82	453750 E 7109000 N	<5	< 0.2	1	2	150	< 0.5	< 2	0	< 0.5	9	13	16	2	< 10	< 1
No name tributary to Christie Creek	JB96-83	453659 E 7108900 N	<5	< 0.2	1	14	280	1	< 2	0	< 0.5	30	16	21	4	< 10	< 1
No name tributary to the E. McQuesten River	JB96-84	460500 E 7112200 N	<5	< 0.2	1	2	90	< 0.5	< 2	0	< 0.5	10	14	18	3	< 10	< 1
Lime Creek	JB96-85	469900 E 7109500 N	<5	< 0.2	1	8	210	< 0.5	< 2	1	< 0.5	10	16	19	2	< 10	< 1
Skate Creek	JB96-86	469000 E 7099400 N	<5	< 0.2	1	110	260	< 0.5	< 2	1	< 0.5	10	23	21	2	< 10	< 1
McKim Creek	JB96-87	505000 E 7088000 N	<5	< 0.2	1	10	290	< 0.5	< 2	1	1	7	15	17	2	< 10	< 1
No name tributary to Roop Creek	JB96-88	525000 E 7082000 N	<5	< 0.2	1	4	610	< 0.5	< 2	0	< 0.5	6	12	15	2	< 10	< 1
Granite Creek	JB96-89	509000 E 7080000 N	<5	< 0.2	1	8	240	< 0.5	< 2	0	< 0.5	5	14	51	1	< 10	< 1
Hope Gulch	JB96-90	490250 E 7087850 N	200	45	1	620	130	< 0.5	< 2	1	46	12	14	84	4	< 10	< 1
Lightning Creek	JB96-91	487800 E 7087100 N	120	22	1	328	180	< 0.5	< 2	0	19	10	16	55	3	< 10	< 1
Bear Creek	JB96-92	433212 E 7062852 N	<5	< 0.2	1	8	120	< 0.5	< 2	0	< 0.5	6	9	15	2	< 10	< 1
Williams Creek	JB96-93	475750 E 7079900 N	10	< 0.2	1	28	270	< 0.5	< 2	0	< 0.5	7	16	28	2	< 10	< 1
Empire Creek	JB96-94	470000 E 7038000 N	<5	< 0.2	1	4	200	< 0.5	< 2	0	< 0.5	8	18	21	2	< 10	< 1
Roaring Fork Creek	JB97-01	451200 E 7067950 N	< 5	< 0.2	1	22	210	< 0.5	< 2	0	< 0.5	13	17	19	2	< 10	< 1
Right fork tributary to Roaring Fork Creek	JB97-02	451150 E 7067500 N	< 5	< 0.2	1	12	160	< 0.5	< 2	0	< 0.5	8	10	16	2	< 10	< 1
Canyon Creek	JB97-05	454050 E 7060450 N	10	< 0.2	1	12	200	< 0.5	2	0	< 0.5	8	14	14	2	< 10	< 1
No name tributary to Minto Creek	JB97-06	450100 E 7063550 N	< 5	< 0.2	1	10	180	< 0.5	< 2	0	< 0.5	5	9	10	1	< 10	< 1
Snowshoe Creek	JB97-07	459400 E 7094150 N	10	< 0.2	1	18	140	< 0.5	2	0	< 0.5	15	21	27	3	< 10	< 1
Field Creek	JB97-08	466250 E 7076275 N	10	< 0.2	1	22	180	< 0.5	< 2	0	< 0.5	8	13	14	2	< 10	< 1
Lower Field Creek	JB97-09	465300 E 7073100 N	5	< 0.2	1	24	180	< 0.5	< 2	0	< 0.5	8	14	17	2	< 10	< 1
Left fork of Upper Seattle Creek	JB97-13	450000 E 7176050 N	5	< 0.2	1	34	190	< 0.5	< 2	1	1	16	18	19	2	< 10	< 1
Middle fork of Upper Seattle Creek	JB97-14	449100 E 7175900 N	10	0	1	56	140	< 0.5	< 2	1	< 0.5	11	16	23	3	< 10	< 1
Right fork of Upper Seattle Creek	JB97-15	448750 E 7175800 N	10	< 0.2	1	26	130	< 0.5	< 2	1	< 0.5	11	22	23	3	< 10	< 1
Left fork tributary to Seattle Creek	JB97-17	445950 E 7079200 N	15	0	1	20	170	< 0.5	< 2	1	< 0.5	10	25	24	3	< 10	< 1
Left fork to Morrison Creek	JB97-19	445500 E 7076800 N	10	1	1	62	150	< 0.5	< 2	1	1	13	33	25	3	< 10	< 1
Right fork tributary to Seattle Creek	JB97-20	447400 E 7075050 N	10	1	1	62	240	< 0.5	< 2	0	< 0.5	11	18	17	2	< 10	< 1
Right fork tributary to Seattle Creek	JB97-21	447600 E 7075200 N	20	1	1	74	160	< 0.5	< 2	1	1	13	20	29	3	< 10	2

Stream	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
Fisher Creek	0	20	1	285	2	< 0.01	32	880	18	< 2	2	43	0	< 10	< 10	21	< 10	112
Fisher Creek	0	20	0	540	1	< 0.01	29	790	14	< 2	2	45	0	< 10	< 10	21	< 10	114
Sluice Creek	0	30	0	1310	3	< 0.01	83	800	16	< 2	2	65	0	< 10	< 10	21	< 10	280
Sluice Creek	0	20	0	1090	4	< 0.01	62	970	14	< 2	1	69	0	< 10	< 10	20	< 10	246
No name tributary to Ballard Creek	0	20	0	335	1	< 0.01	17	580	8	< 2	2	59	0	< 10	< 10	25	< 10	64
Ballard Creek	0	20	0	495	1	< 0.01	17	600	8	< 2	2	52	0	< 10	< 10	26	< 10	76
No name tributary to the E. McQuesten River	0	10	0	430	1	< 0.01	17	510	12	< 2	2	39	0	< 10	< 10	22	< 10	78
No name tributary to the E. McQuesten River	0	10	0	370	1	< 0.01	19	520	12	< 2	2	74	0	< 10	< 10	23	< 10	72
Larsen Creek	0	10	0	425	2	< 0.01	21	590	12	< 2	2	41	0	< 10	< 10	26	< 10	114
No name tributary to the E. McQuesten River	0	10	0	465	1	< 0.01	17	610	10	< 2	2	81	0	< 10	< 10	25	< 10	88
No name tributary to the E. McQuesten River	0	20	0	275	1	< 0.01	17	430	14	< 2	1	36	0	< 10	< 10	20	< 10	66
No name tributary to the E. McQuesten River	0	20	0	320	1	< 0.01	18	540	14	< 2	2	46	0	< 10	< 10	22	< 10	68
No name tributary to the E. McQuesten River	0	20	0	535	1	< 0.01	18	480	12	< 2	2	37	0	< 10	< 10	23	< 10	64
No name tributary to the E. McQuesten River	0	20	0	290	1	< 0.01	18	510	12	< 2	2	51	0	< 10	< 10	22	< 10	68
Sluice Creek	0	10	0	5330	6	< 0.01	274	940	8	2	3	79	0	< 10	< 10	25	< 10	1065
No name tributary to Sluice Creek	0	20	0	955	3	< 0.01	47	820	10	< 2	2	72	0	< 10	< 10	27	< 10	168
Davidson Creek	0	10	0	235	1	< 0.01	10	430	6	< 2	< 1	38	0	< 10	< 10	10	< 10	32
Christie Creek	0	40	0	465	1	< 0.01	18	530	12	< 2	1	34	0	< 10	< 10	21	< 10	62
No name tributary to Christie Creek	0	30	0	1295	1	< 0.01	54	630	12	< 2	2	34	0	< 10	< 10	28	< 10	210
No name tributary to the E. McQuesten River	0	40	0	380	1	< 0.01	22	520	10	< 2	1	24	0	< 10	< 10	15	< 10	50
Lime Creek	0	20	0	485	1	< 0.01	20	670	18	< 2	2	45	0	< 10	< 10	23	< 10	106
Skate Creek	0	10	1	450	3	0	20	860	18	< 2	3	34	0	< 10	< 10	37	< 10	116
McKim Creek	0	20	0	680	2	< 0.01	16	1230	6	< 2	2	28	0	< 10	< 10	29	< 10	68
No name tributary to Roop Creek	0	10	0	315	1	< 0.01	19	580	10	< 2	1	25	0	< 10	< 10	17	< 10	98
Granite Creek	0	30	0	410	1	< 0.01	14	1010	4	< 2	2	26	0	< 10	< 10	27	< 10	70
Hope Gulch	0	10	0	3370	3	< 0.01	29	900	1290	28	3	23	0	< 10	< 10	27	< 10	4340
Lightning Creek	0	10	0	2170	4	< 0.01	23	860	526	14	2	20	0	< 10	< 10	28	< 10	1815
Bear Creek	0	20	0	230	1	< 0.01	13	320	10	< 2	1	32	0	< 10	< 10	14	< 10	52
Williams Creek	0	20	0	435	3	< 0.01	16	640	12	2	2	29	0	< 10	< 10	27	< 10	66
Empire Creek	0	20	1	275	1	< 0.01	17	590	6	< 2	2	31	0	< 10	< 10	24	< 10	46
Roaring Fork Creek	0	30	0	535	< 1	< 0.01	23	580	24	6	1	31	0	< 10	< 10	18	< 10	84
Right fork tributary to Roaring Fork Creek	0	30	0	340	< 1	< 0.01	16	400	12	< 2	1	36	0	< 10	< 10	14	< 10	48
Canyon Creek	0	30	0	385	1	< 0.01	17	470	10	< 2	1	32	0	< 10	< 10	16	< 10	60
No name tributary to Minto Creek	0	20	0	185	< 1	< 0.01	11	430	8	< 2	1	28	0	< 10	< 10	14	< 10	46
Snowshoe Creek	0	30	0	600	1	< 0.01	34	760	20	4	2	45	0	< 10	< 10	21	< 10	84
Field Creek	0	10	0	495	< 1	< 0.01	17	540	8	< 2	1	29	0	< 10	< 10	19	< 10	54
Lower Field Creek	0	20	0	385	< 1	< 0.01	18	520	10	< 2	1	35	0	< 10	< 10	19	< 10	66
Left fork of Upper Seattle Creek	0	30	0	880	1	< 0.01	24	620	18	< 2	2	47	0	< 10	< 10	24	< 10	112
Middle fork of Upper Seattle Creek	0	40	0	375	< 1	< 0.01	26	510	18	6	2	67	0	< 10	< 10	14	< 10	72
Right fork of Upper Seattle Creek	0	30	1	490	1	< 0.01	28	550	16	6	2	64	0	< 10	< 10	18	< 10	80
Left fork tributary to Seattle Creek	0	40	1	475	1	< 0.01	27	620	18	< 2	2	52	0	< 10	< 10	25	< 10	92
Left fork to Morrison Creek	0	30	1	720	1	< 0.01	34	530	22	< 2	3	44	0	< 10	< 10	28	< 10	136
Right fork tributary to Seattle Creek	0	30	0	630	1	< 0.01	16	620	20	< 2	2	28	0	< 10	< 10	29	< 10	56
Right fork tributary to Seattle Creek	0	30	0	830	1	< 0.01	27	500	26	6	3	47	< 0.01	< 10	< 10	20	< 10	102

Stream	Sample number	Location UTM	Au ppb	Ag ppb	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm
Russell Creek	JB97-22	580100 E 6998500 N	< 5	< 0.2	1	12	170	< 0.5	< 2	0	< 0.5	11	15	21	3	< 10	< 1
Upper Morrison Creek	JB97-23	440600 E 7075500 N	75	< 0.2	1	50	180	< 0.5	< 2	0	< 0.5	10	18	17	2	< 10	< 1
Bennett Creek	JB97-25	447050 E 7069500 N	10	< 0.2	1	90	90	< 0.5	< 2	0	< 0.5	9	11	17	2	< 10	< 1
Sunday Creek	JB97-26	441400 E 7063400 N	10	< 0.2	1	12	130	< 0.5	< 2	0	< 0.5	5	12	8	1	< 10	< 1
Upper Parent Creek	JB97-27	483750 E 7079150 N	< 5	0	1	18	100	< 0.5	2	0	< 0.5	5	19	48	3	< 10	< 1
Upper Parent Creek	JB97-28	483150 E 7079600 N	15	0	1	18	220	< 0.5	< 2	0	2	12	18	27	3	< 10	1
Left fork tributary to Sprague Creek	JB97-29	426075 E 7086900 N	5	< 0.2	1	14	110	< 0.5	< 2	0	1	11	19	18	2	< 10	< 1
Gem Creek	JB97-30	411300 E 7093800 N	260	0	2	434	200	< 0.5	2	0	< 0.5	17	23	126	5	< 10	< 1
Arizona Creek	JB97-31	408400 E 7096400 N	< 5	< 0.2	1	10	290	< 0.5	< 2	1	1	14	21	28	3	< 10	< 1
Big Creek	JB97-32	406650 E 7085350 N	15	0	1	32	130	< 0.5	< 2	0	1	12	23	23	2	< 10	< 1
Granite Creek	JB97-33	407250 E 7085050 N	10	< 0.2	1	16	120	< 0.5	< 2	0	1	13	33	30	3	< 10	< 1
Upper left fork tributary to Forty Mile Creek	JB97-34	403800 E 7078250 N	520	4	1	144	110	< 0.5	< 2	0	3	12	18	25	3	< 10	< 1
Castnor Creek	JB97-38	435475 E 7077850 N	10	< 0.2	1	8	120	< 0.5	2	0	< 0.5	10	25	17	2	< 10	< 1
Laska Gulch	JB97-39	435300 E 7077900 N	< 5	< 0.2	1	20	120	< 0.5	< 2	0	1	17	18	16	3	< 10	< 1
Crystal Creek	JB97-40	482000 E 7091075 N	15	16	1	188	200	< 0.5	< 2	1	22	7	12	26	2	< 10	< 1
Main tributary to Empire Creek	JB97-42	470450 E 7036050 N	< 5	< 0.2	1	16	140	< 0.5	< 2	1	< 0.5	15	43	41	3	< 10	1
Unnamed tributary to Talbot Lake	JB97-43	464900 E 7036800 N	< 5	< 0.2	1	8	160	< 0.5	< 2	1	< 0.5	11	23	24	2	< 10	< 1
Right fork to Talbot Creek	JB97-44	457900 E 7042350 N	< 5	< 0.2	1	16	80	< 0.5	2	0	< 0.5	14	12	28	3	< 10	< 1
Upper Talbot Creek	JB97-45	461100 E 7044700 N	< 5	< 0.2	1	10	130	< 0.5	< 2	0	< 0.5	11	27	20	2	< 10	< 1
No name tributary to Stewart River	JB97-46	469100 E 7044450 N	10	< 0.2	1	6	200	< 0.5	< 2	0	< 0.5	9	17	13	2	< 10	< 1
Goodman Creek	JB97-48	443125 E 7087150 N	< 5	< 0.2	1	12	150	< 0.5	6	0	< 0.5	9	14	19	2	< 10	< 1
Sunshine Creek	DM97-01	421050 E 7079500 N	< 5	1	1	36	170	1	2	0	1	14	21	32	3	< 10	< 1
Left fork tributary to Sprague Creek	DM97-02	419650 E 7087200 N	< 5	< 0.2	1	16	120	< 0.5	2	0	< 0.5	12	22	22	2	< 10	< 1
Hobo Creek	DM97-03	408150 E 7097350 N	20	< 0.2	1	102	160	1	< 2	0	1	12	22	33	3	< 10	< 1
Drapeau Creek	DM97-04	408550 E 7097000 N	10	< 0.2	1	12	310	1	< 2	1	1	15	24	36	3	< 10	< 1
Left fork tributary to Big Creek	DM97-05	408250 E 7089950 N	10	0	2	18	670	1	< 2	1	1	11	36	24	3	< 10	< 1
Josephine Creek	DM97-06	400800 E 7084850 N	355	0	2	532	140	1	< 2	0	1	20	31	41	3	< 10	< 1
Upper right fork tributary to Forty Mile Creek	DM97-07	409750 E 7079925 N	15	0	1	78	70	< 0.5	6	0	< 0.5	21	16	39	4	< 10	< 1
Upper Bear Creek	DM97-08	433525 E 7064250 N	110	< 0.2	1	10	130	< 0.5	2	0	< 0.5	11	16	19	2	< 10	< 1
Right fork tributary to Bear Creek	DM97-09	433625 E 7064300 N	5	< 0.2	1	18	120	< 0.5	< 2	0	< 0.5	10	14	16	2	< 10	< 1
Shanghai Creek	JB97-49	465275 E 7089950 N	10	10	1	22	230	< 0.5	< 2	2	< 0.5	10	17	23	2	< 10	< 1
Allen Creek	JB97-50	498450 E 7088450 N	< 5	< 5	2	20	190	< 0.5	< 2	0	< 0.5	26	28	89	3	< 10	< 1
Left fork tributary to Allen Creek	JB97-52	498800 E 7088700 N	< 5	< 5	1	56	170	< 0.5	< 2	0	< 0.5	24	35	92	3	< 10	< 1

Stream	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
Russell Creek	0	30	0	615	1	< 0.01	21	510	10	< 2	1	19	0	< 10	< 10	21	< 10	68
Upper Morrison Creek	0	20	0	530	1	< 0.01	19	580	8	< 2	2	20	0	< 10	< 10	27	< 10	70
Bennett Creek	0	30	0	360	< 1	< 0.01	18	430	12	8	1	19	0	< 10	< 10	14	< 10	56
Sunday Creek	0	20	0	205	1	< 0.01	11	370	8	< 2	1	32	0	< 10	< 10	16	< 10	42
Upper Parent Creek	0	30	0	170	3	< 0.01	18	550	22	< 2	1	8	< 0.01	< 10	10	24	< 10	74
Upper Parent Creek	0	30	0	350	3	< 0.01	42	730	14	2	1	23	0	< 10	< 10	27	< 10	230
Left fork tributary to Sprague Creek	0	30	0	290	< 1	< 0.01	21	490	14	< 2	1	21	0	< 10	< 10	22	< 10	80
Gem Creek	0	30	0	560	4	< 0.01	29	820	32	< 2	3	34	0	< 10	< 10	49	< 10	122
Arizona Creek	0	30	1	530	2	< 0.01	27	980	12	< 2	4	59	0	< 10	< 10	35	< 10	96
Big Creek	0	30	0	385	< 1	< 0.01	24	540	16	< 2	3	22	0	< 10	< 10	30	< 10	76
Granite Creek	0	30	1	275	1	< 0.01	31	670	32	14	3	37	0	< 10	< 10	34	< 10	92
Upper left fork tributary to Forty Mile Creek	0	30	0	650	< 1	< 0.01	23	520	46	< 2	1	20	0	< 10	< 10	24	< 10	208
Castnor Creek	0	30	1	400	1	< 0.01	23	570	16	2	2	31	0	< 10	< 10	23	< 10	90
Laska Gulch	0	30	0	1260	1	< 0.01	28	400	22	< 2	1	18	0	< 10	< 10	21	< 10	228
Crystal Creek	0	< 10	1	3600	2	< 0.01	26	770	888	18	1	28	0	< 10	< 10	20	< 10	1640
Main tributary to Empire Creek	0	10	1	500	< 1	< 0.01	39	610	8	< 2	4	46	0	< 10	< 10	40	< 10	60
Unnamed tributary to Talbot Lake	0	30	1	395	< 1	< 0.01	24	620	8	< 2	3	34	0	< 10	< 10	29	< 10	52
Right fork to Talbot Creek	0	50	0	435	1	< 0.01	29	480	12	< 2	1	26	0	< 10	< 10	14	< 10	72
Upper Talbot Creek	0	30	1	400	< 1	< 0.01	26	650	8	< 2	3	34	0	< 10	< 10	27	< 10	58
No name tributary to Stewart River	0	20	0	415	< 1	< 0.01	17	490	8	2	2	25	0	< 10	< 10	23	< 10	54
Goodman Creek	0	30	0	405	1	< 0.01	19	500	12	4	2	37	0	< 10	< 10	21	< 10	56
Sunshine Creek	0	20	0	900	< 1	< 0.01	23	650	14	< 2	1	18	0	< 10	< 10	30	< 10	134
Left fork tributary to Sprague Creek	0	30	0	390	< 1	< 0.01	24	520	16	< 2	2	28	0	< 10	< 10	26	< 10	72
Hobo Creek	0	20	0	600	3	< 0.01	28	580	18	< 2	3	30	0	< 10	< 10	39	< 10	134
Drapeau Creek	0	20	0	1095	4	< 0.01	40	820	16	< 2	4	58	0	< 10	< 10	39	< 10	170
Left fork tributary to Big Creek	0	30	1	980	1	< 0.01	24	1090	10	< 2	5	67	0	< 10	< 10	50	< 10	98
Josephine Creek	0	30	1	585	1	< 0.01	44	650	10	< 2	4	32	0	< 10	< 10	38	10	94
Upper right fork tributary to Forty Mile Creek	0	40	0	670	1	< 0.01	40	500	30	6	1	18	0	< 10	< 10	18	< 10	104
Upper Bear Creek	0	40	0	385	1	< 0.01	21	550	14	8	2	34	0	< 10	< 10	19	< 10	70
Right fork tributary to Bear Creek	0	40	0	270	1	< 0.01	18	490	14	< 2	1	35	0	< 10	< 10	16	< 10	62
Shanghai Creek	0	20	1	530	1	< 0.01	22	690	16	< 2	3	61	0	< 10	< 10	30	< 10	76
Allen Creek	0	40	1	925	2	< 0.01	119	870	20	4	3	27	0	< 10	< 10	33	< 10	590
Left fork tributary to Allen Creek	0	40	1	1140	2	< 0.01	66	700	38	< 2	3	14	0	< 10	< 10	31	< 10	286

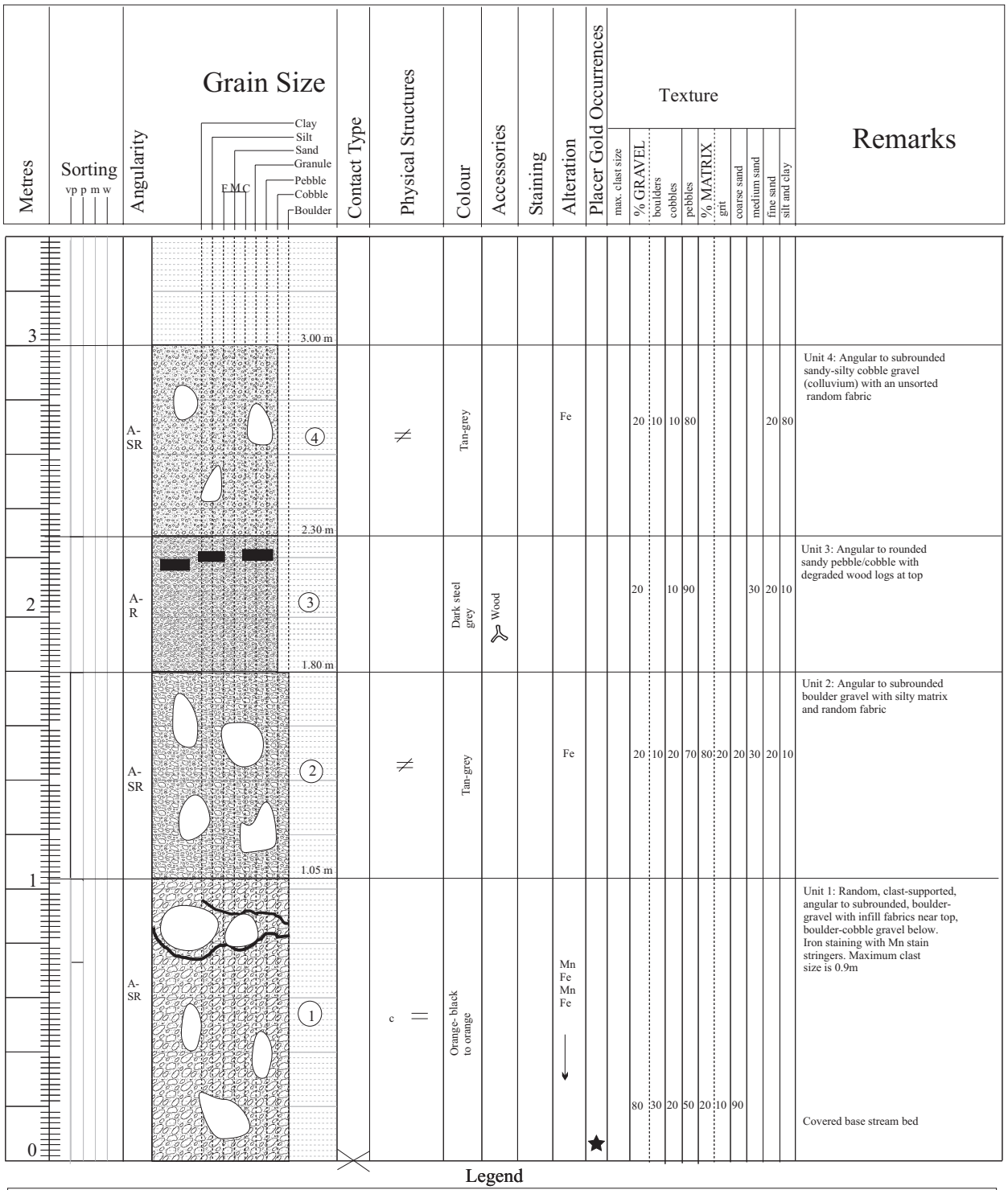
Appendix 4. Measured sections

Duncan Creek/Keno Hill

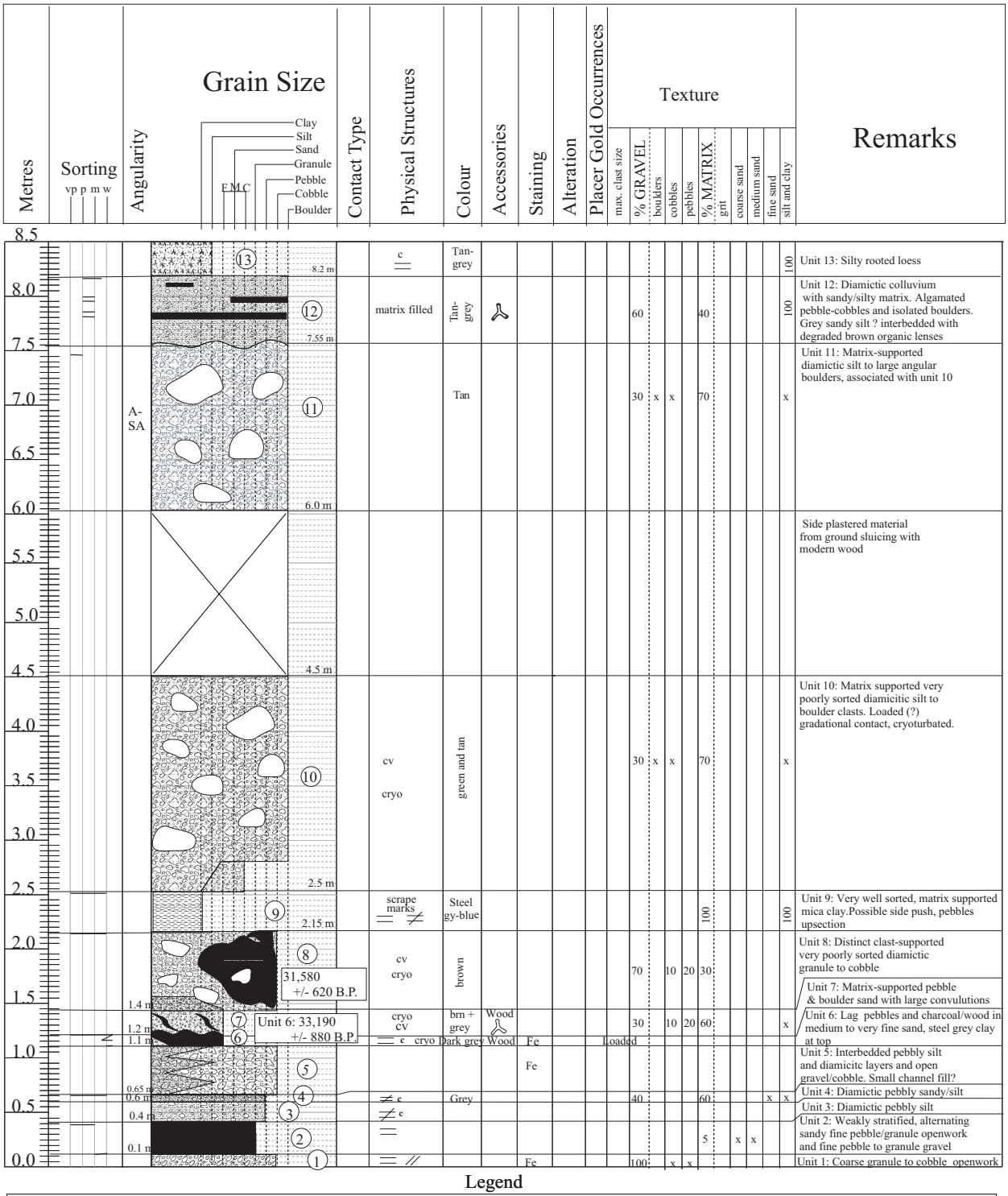
Date: 02/07/96 Section number: FH9601/ Lw9605 Measured by: FJH Creek or River: Upper Duncan Creek NTS: 105M14

Latitude: 63°52.21 Longitude: 135°11.48 Elevation: 4120 to 4180 UTM:

Orientation: 269 ⟷ 089 upstream Geomorphic landform: Valley Fill-Disected Alluvial Fan



Date: 04/07/96 Section number: FH-96-02 Measured by: WPL/MR Creek or River: Duncan Creek NTS: 105M14
Latitude: 63°52.64 Longitude: 135°18.45 Elevation: 3240 ft UTM: 0476570E,7076621N
Orientation: 310 ⟷ 130 upstream Geomorphic landform: Valley



Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics
Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds
Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 08/07/96 Section number: FH96-02A Measured by: Creek or River: Upper Duncan Creek NTS:
Latitude: 63 52.64N Longitude: 135 18.45"W Elevation: UTM:
Orientation: 310 ⟷ 130 upstream Geomorphic landform: modern gravel bar downstream from measured section

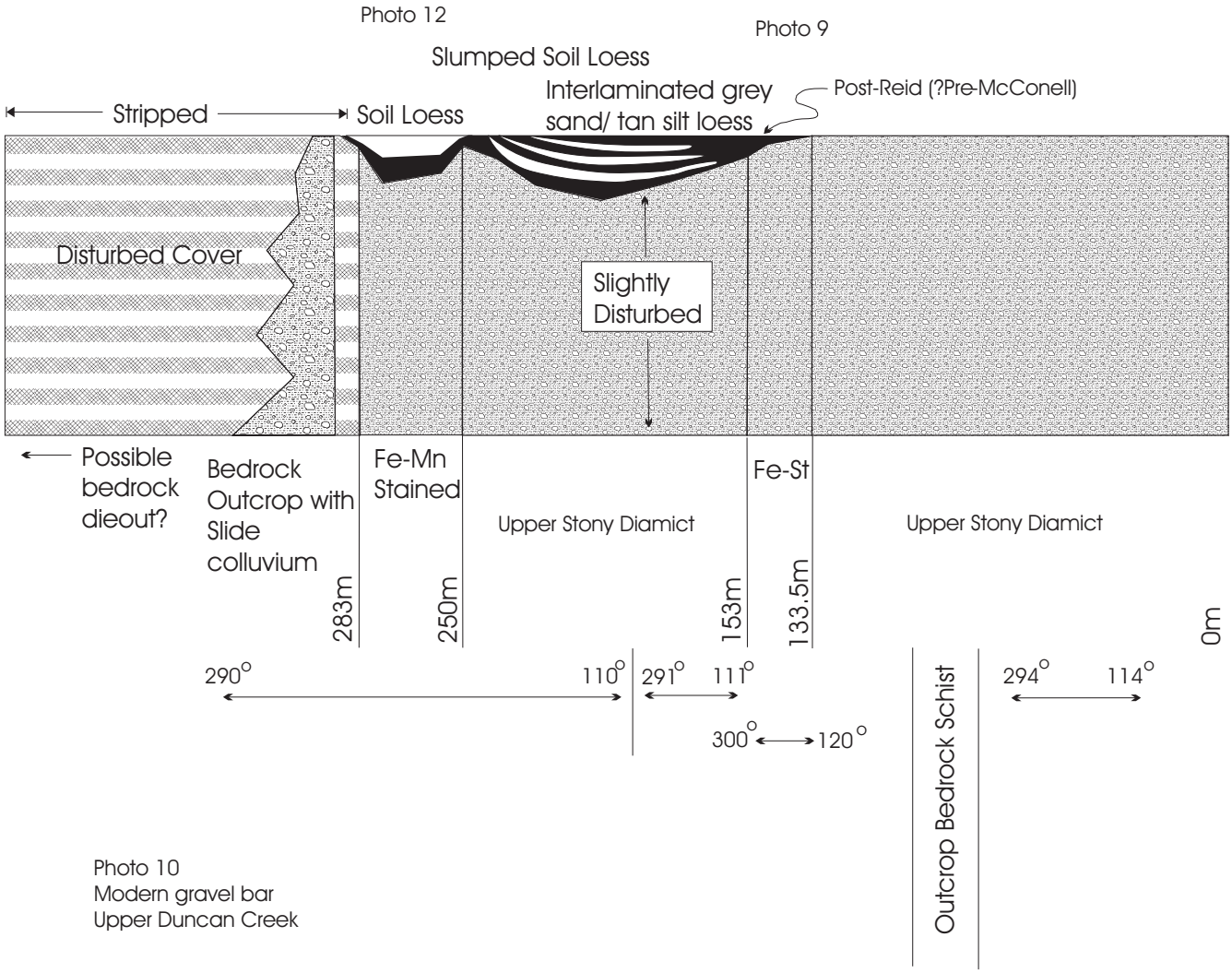
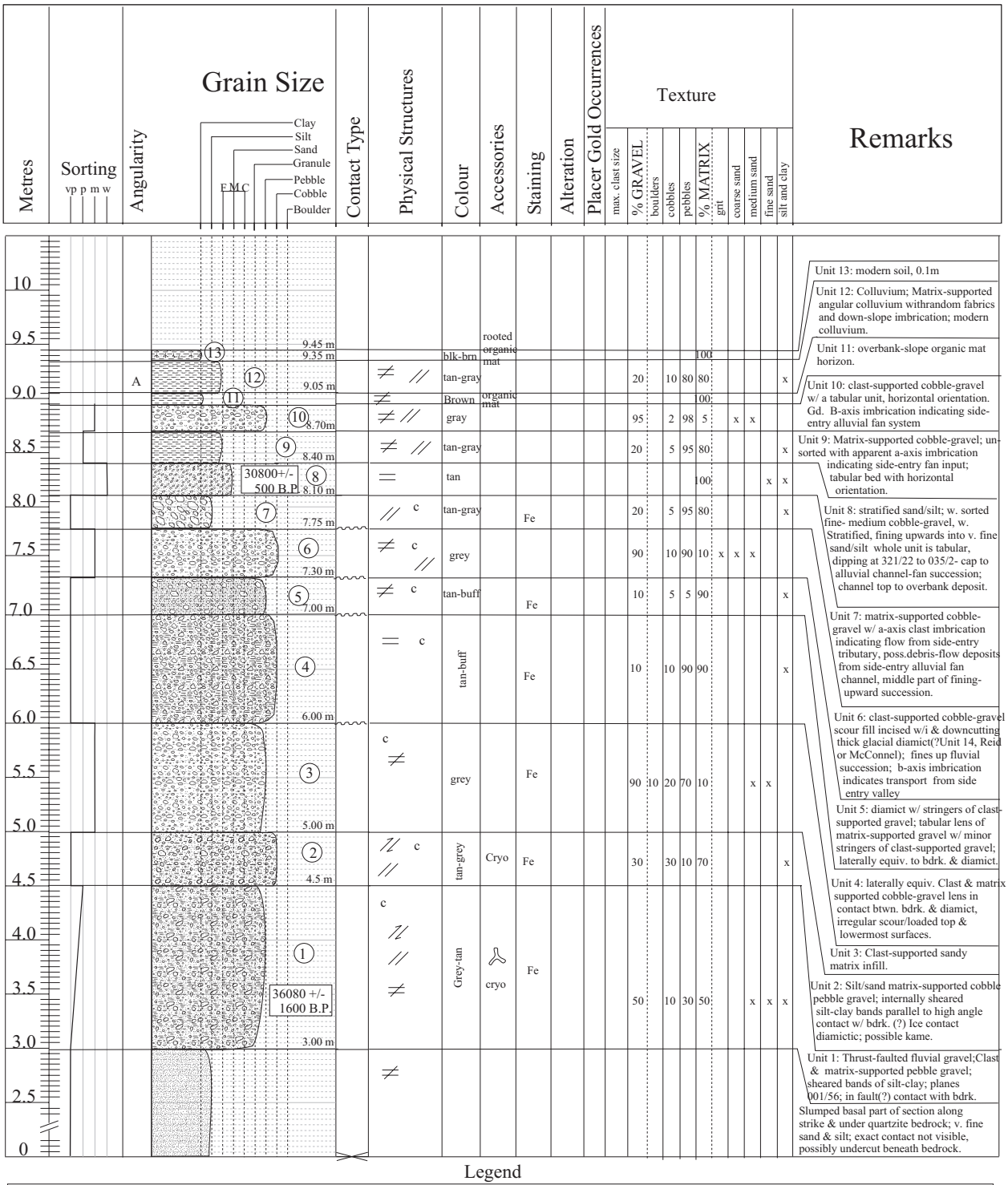


Photo 10
Modern gravel bar
Upper Duncan Creek

Date: 12/07/96 Section number: FH96012 Measured by: WPL/FJH/LM Creek or River: Duncan Creek NTS: 105M14

Latitude: 63°52'44"N Longitude: 135°22'39"W Elevation: 2740 ft UTM: 0481455E,7083376N

Orientation: 076 ⟷ 256 (upstream) Geomorphic landform: Alluvial Fan



Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics

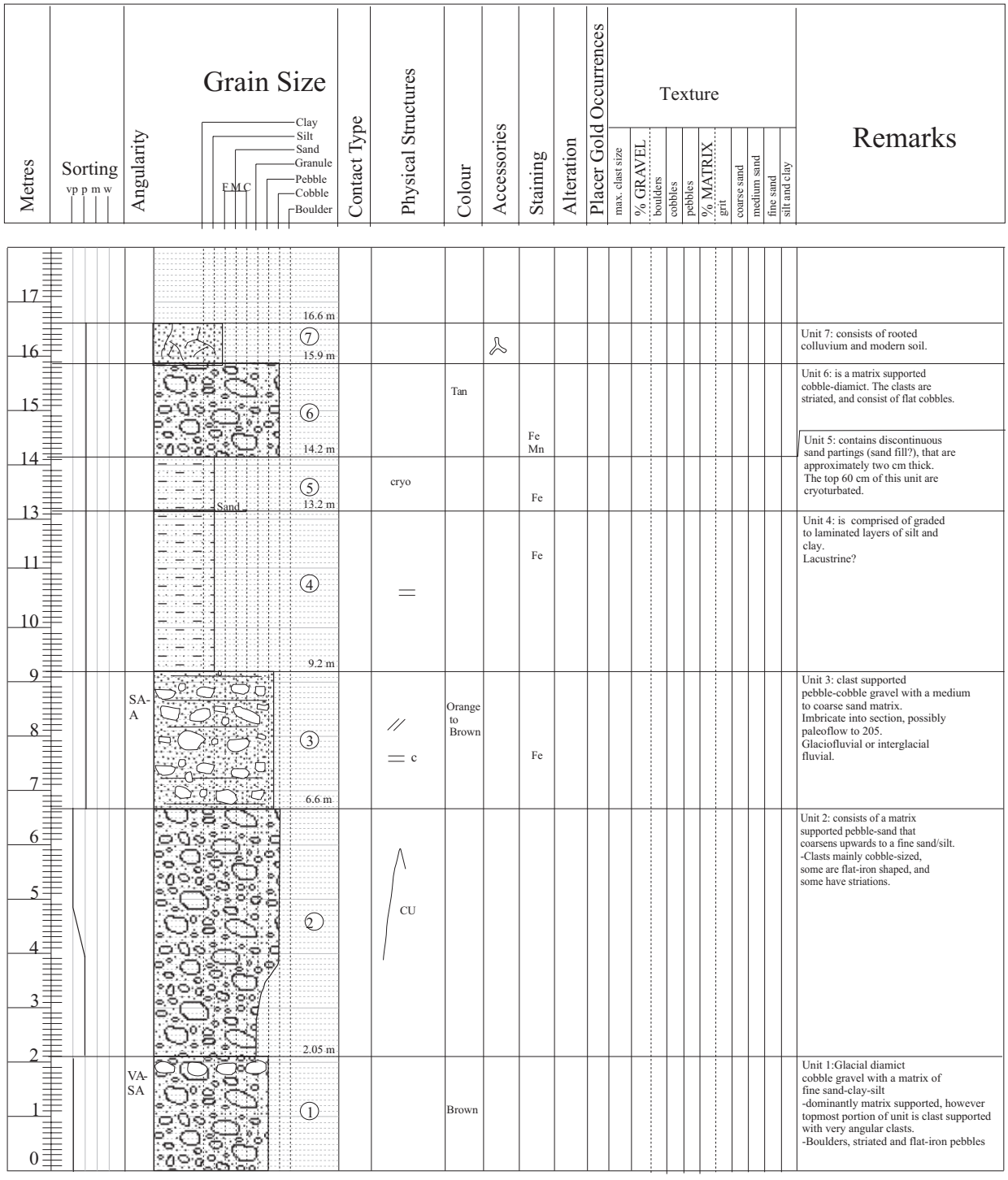
Sand Diamicton Cross-stratified Trough cross-stratified Fossils Faulting

Modifiers: c = crude d = discontinuous cv= convoluted cryo= cryogenic features

Date: 15/08/96 Section number: FH9618 Measured by: FJH, LW Creek or River: Thunder Gulch NTS: 105M/14

Latitude: 63°53.97 Longitude: 135°15.07 Elevation: 3790 ft UTM: 487670E, 7085643N 2nd tributary to lacustrine section

Orientation: 128° us ⟷ 348° ds Geomorphic landform: Gulch gravels



Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics

Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds

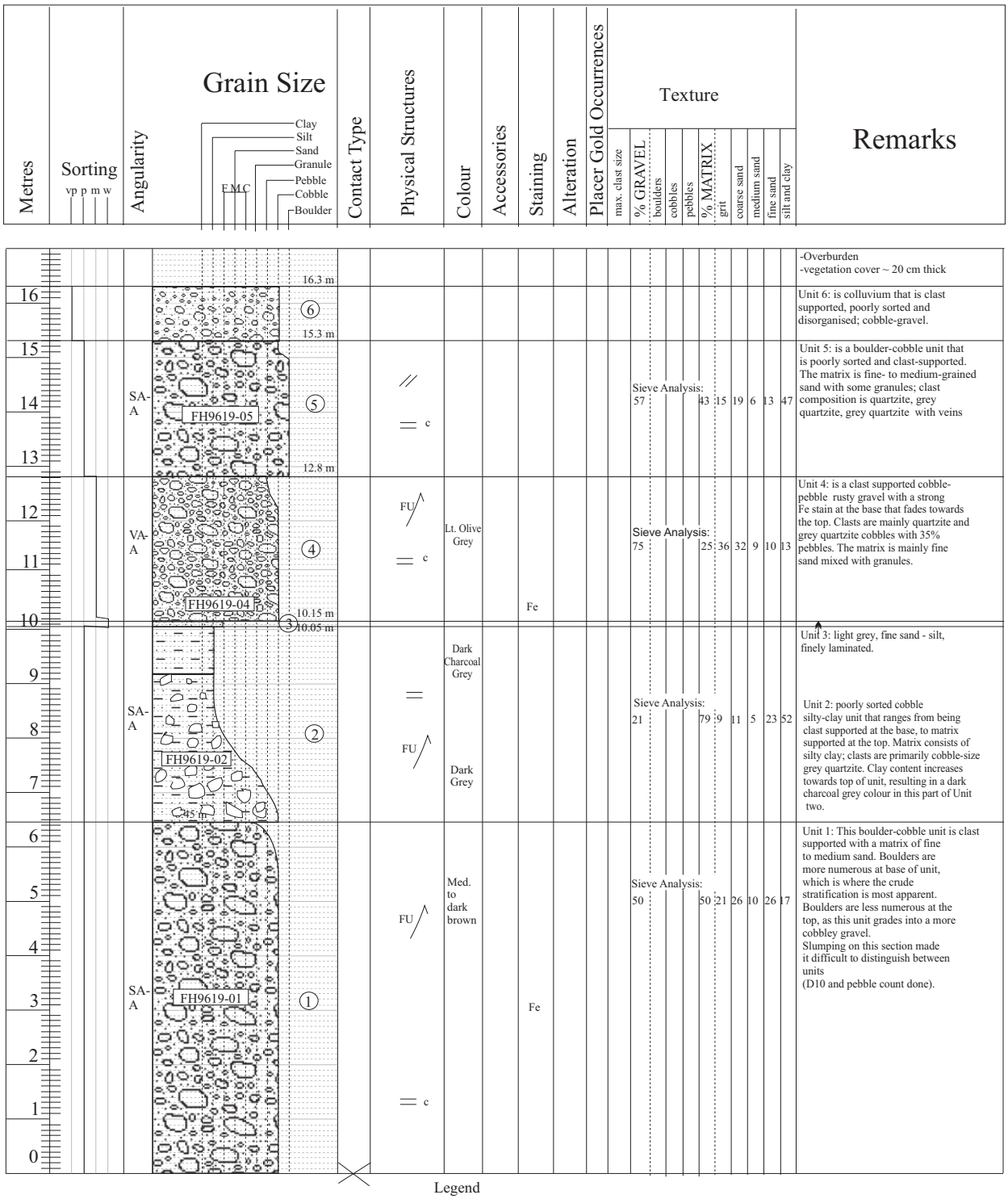
Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 16/08/96 Section number: FH9619-1 Measured by: LW Creek or River: Thunder Gulch NTS: 105M/14

Latitude: 63º54.00′ Longitude: 135º14.77′ Elevation: 3710 ft UTM: 487917E, 7085846N

Orientation: 135º us ⟷ 315º ds Geomorphic landform: Gulch gravels

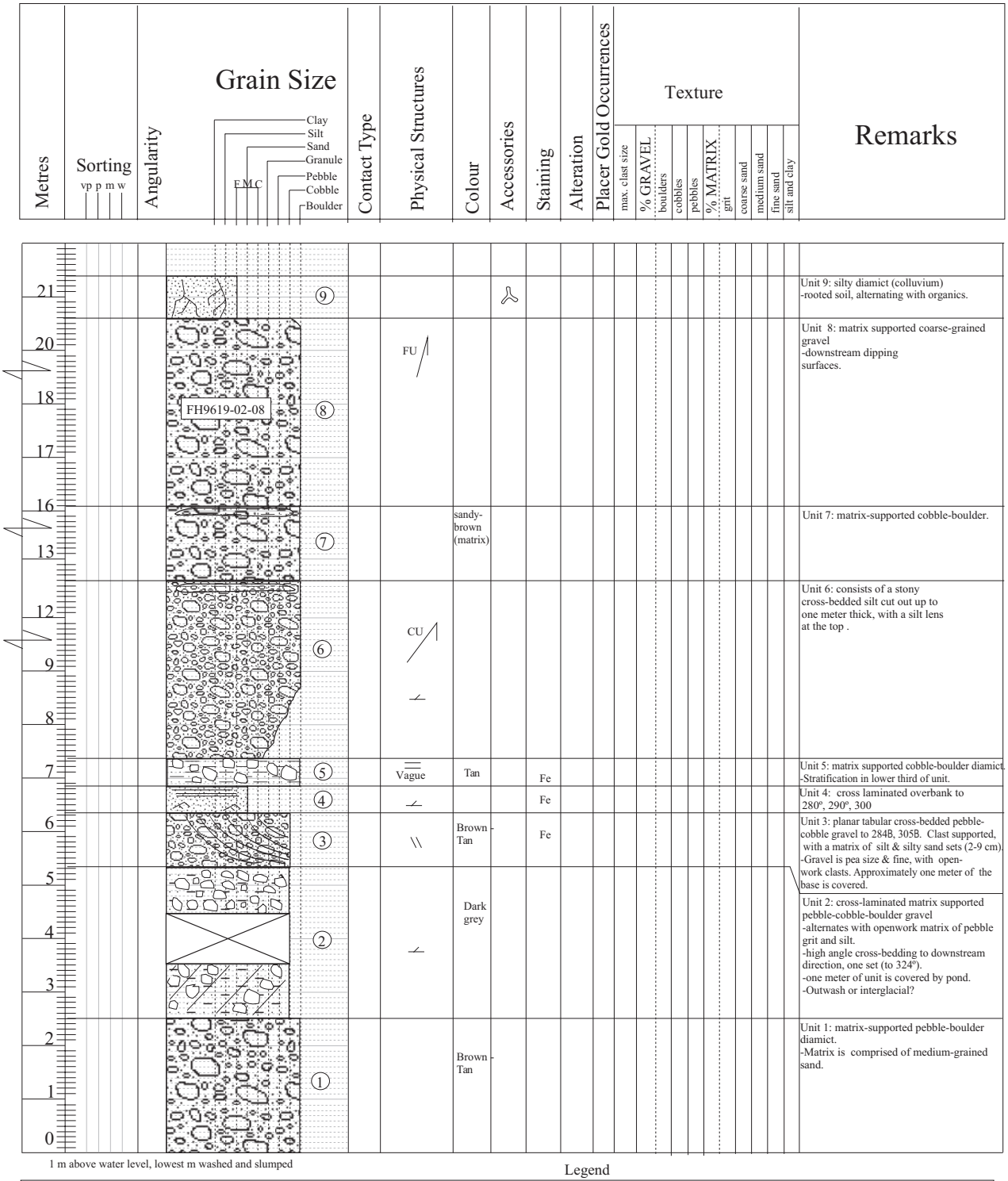
First logged on NW end down stream blue-grey boulder unit . Section is moderately indurated on the surface, difficult to cut steps.



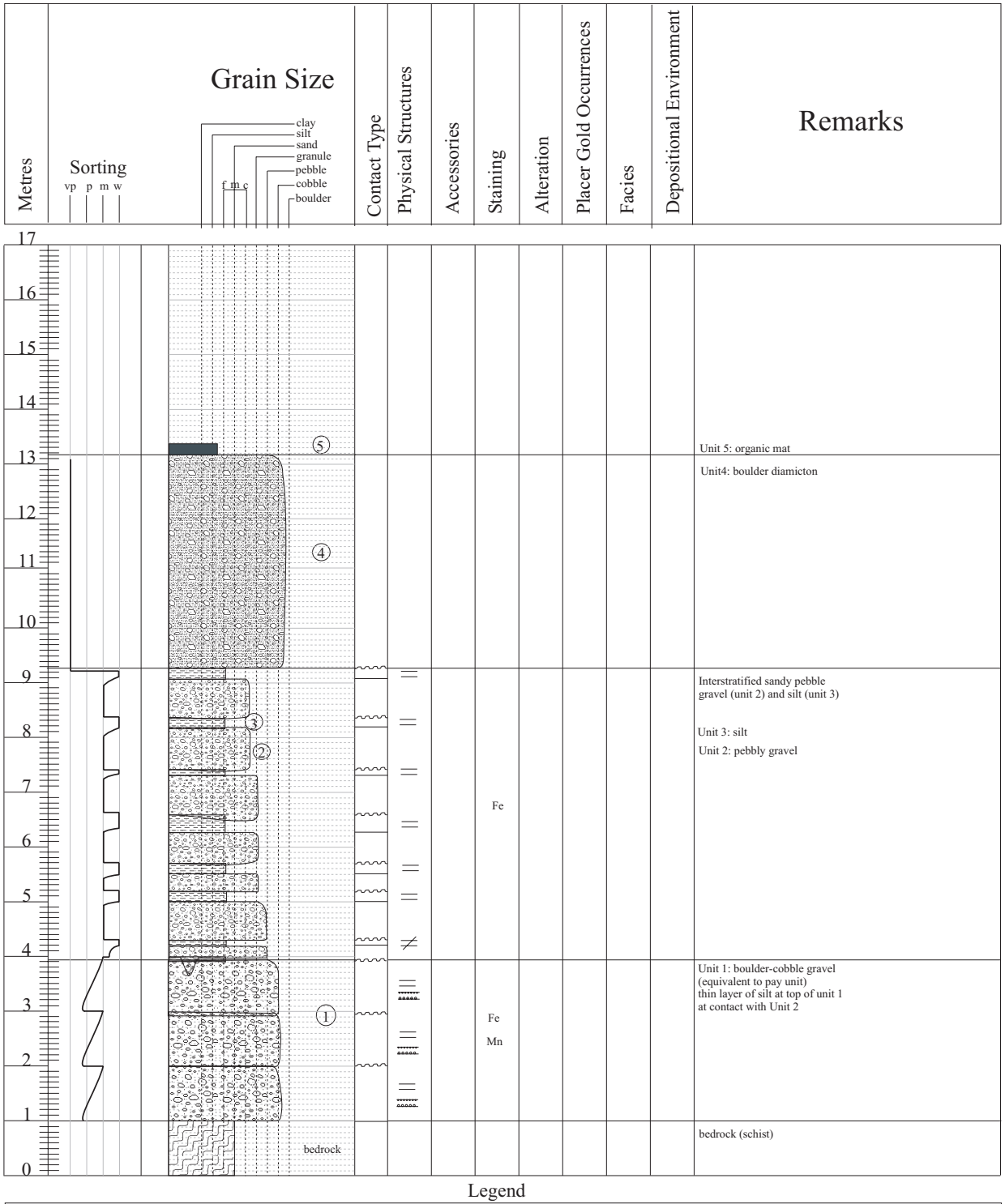
Date: 20/08/96 Section number: FH9619-2 Measured by: FJH, LM Creek or River: Thunder Gulch NTS: 105M/14

Latitude: 63°54.08 Longitude: 135°14.92 Elevation: 3750 ft UTM: 487794E, 7085846N

Orientation: 144° us ⟷ 324° ds Geomorphic landform: Gulch gravels



Date: 30/07/95 Section Number: FT1-95 Measured by: WPL Creek or River: Duncan Creek NTS: 105M14
Latitude: 63°48'34"N Longitude: 135° 29'12"W Elevation: 2420 Geomorphic Landform: Glaciofluvial Terrace
Orientation: 326 <----------> 146 downstream



Legend

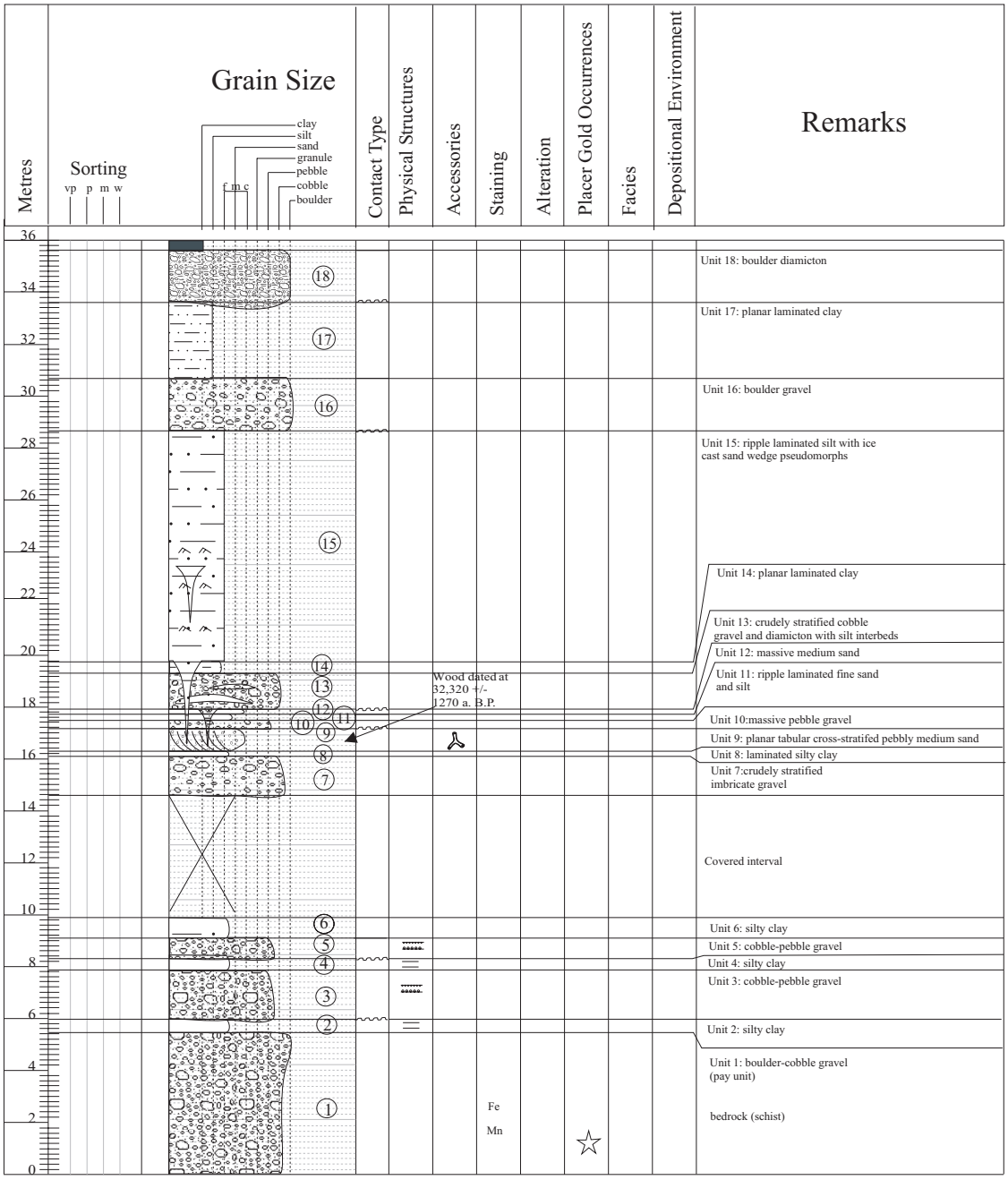
Lithology

Mud (Silt/clay) Gravel
Sand Diamicton

Physical Structures and Accessories

Planar stratified Massive Ripples Organics
Cross-stratified Trough cross-stratified Fossils

Date: 09/07/95 Section Number: FT2-95 Measured by: WPL Creek or River: Duncan Creek NTS: 105M14
Latitude: 63°48'38"N Longitude: 135°29'04"W Elevation: 2420 ft Geomorphic Landform: Glaciofluvial Terrace
Orientation: 64 <----------> 244 downstream



Legend

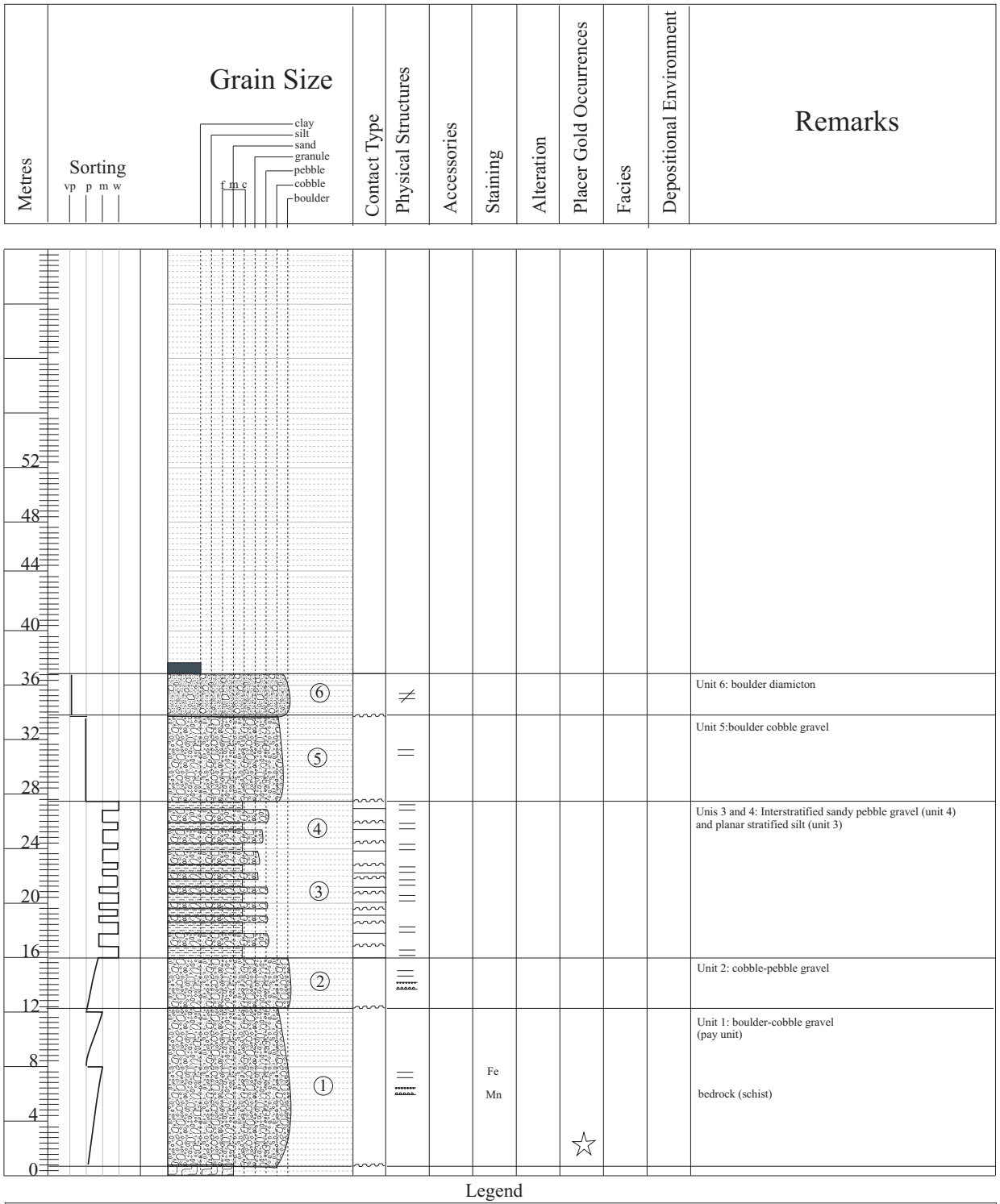
Lithology

Mud (Silt/clay) Gravel
Sand Diamicton

Physical Structures and Accessories

Planar stratified Massive Ripples Organics
Cross-stratified Trough cross-stratified Fossils

Date: 09/08/95 Section Number: FT3-95 Measured by: WPL Creek or River: Duncan Creek NTS: 105M14
Latitude: 63°48'43"N Longitude: 135 °29'03"W Elevation: 2420 ft Geomorphic Landform: Glaciofluvial Terrace
Orientation: 20 <----------> 200 downstream



Legend

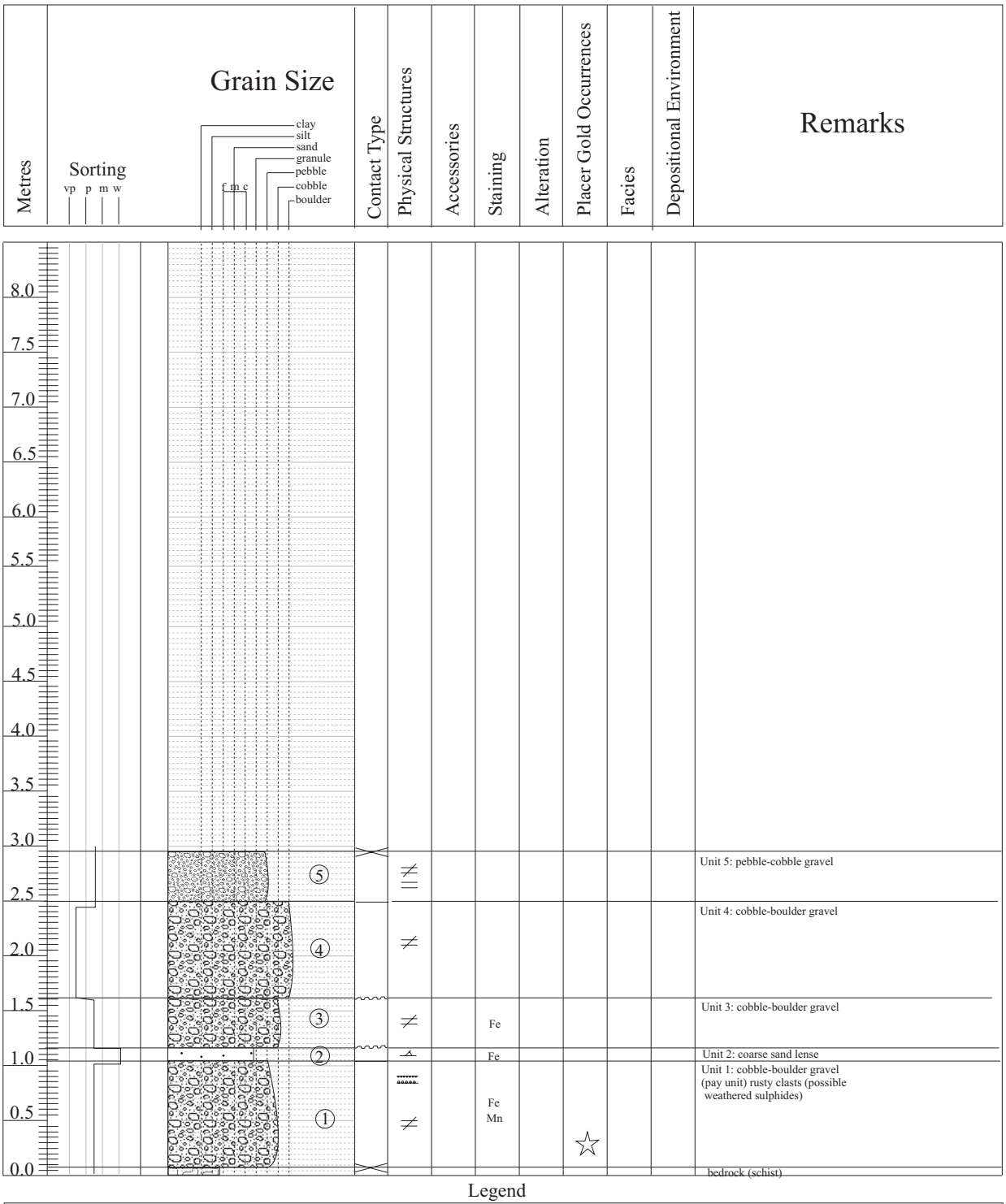
Lithology

Mud (Silt/clay) Gravel
Sand Diamicton

Physical Structures and Accessories

Planar stratified Massive Ripples Organics
Cross-stratified Trough cross-stratified Fossils

Date: 01/08/95 Section Number: FT4-95 Measured by: WPL/PM Creek or River: Duncan Creek NTS: 105M14
Latitude: 63°48'47"N Longitude: 135 °29'00"W Elevation: 2420 Geomorphic Landform: Glaciofluvial Terrace
Orientation: 94 <----------> 274



Legend

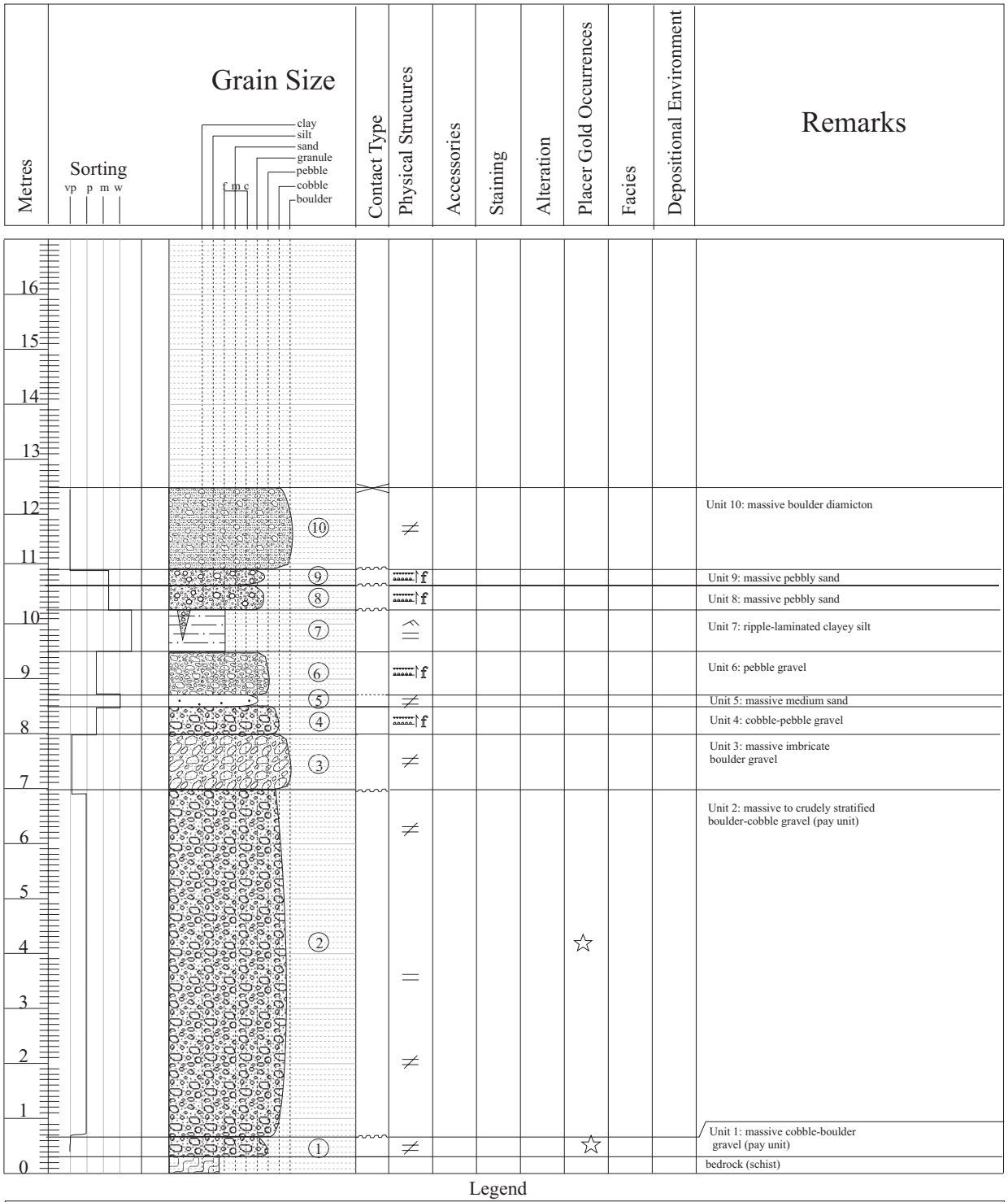
Lithology

Mud (Silt/clay) Gravel
Sand Diamicton

Physical Structures and Accessories

Planar stratified Massive Ripples Organics
Cross-stratified Trough cross-stratified Fossils

Date: 11/08/95 Section Number: FT5-95 Measured by: WPL/PM Creek or River: Duncan Creek NTS: 105M14
Latitude: 63°48'53"N Longitude: 135°28'54"W Elevation: 2450 ft Geomorphic Landform: Glaciofluvial Terrace
Orientation: 34 <----------> 214 Downstream



Legend

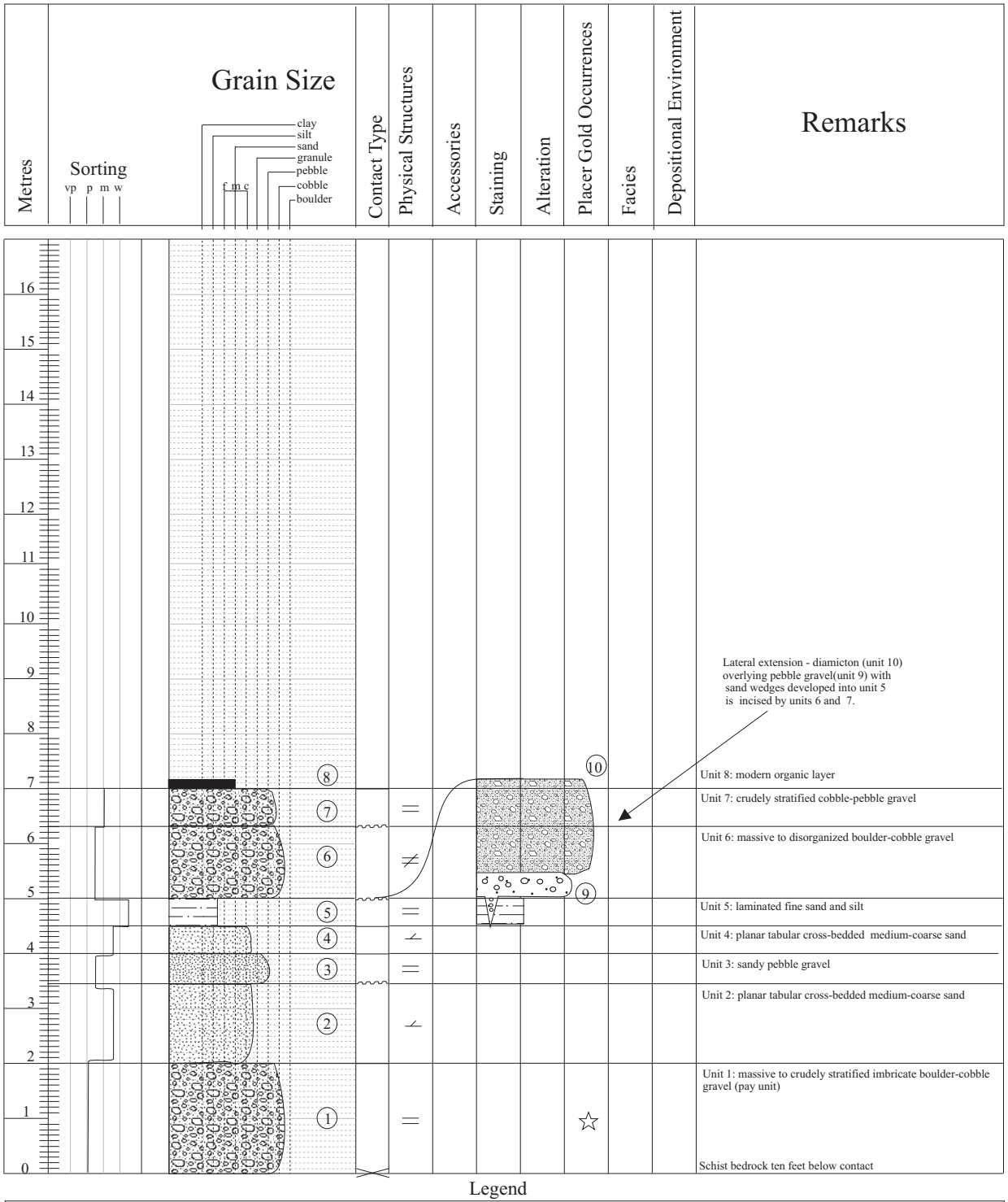
Lithology

Mud (Silt/clay) Gravel
Sand Diamicton

Physical Structures and Accessories

Planar stratified Massive Ripples Organics
Cross-stratified Trough cross-stratified Fossils

Date: 28/09/95 Section Number: FT6-95 Measured by: WPL Creek or River: Duncan Creek NTS: 105M14
Latitude: 63°48'53"N Longitude: 135 °28'52"W Elevation: 2460 ft Geomorphic Landform: Glaciofluvial Terrace
Orientation: 26 <----------> 206 Downstream

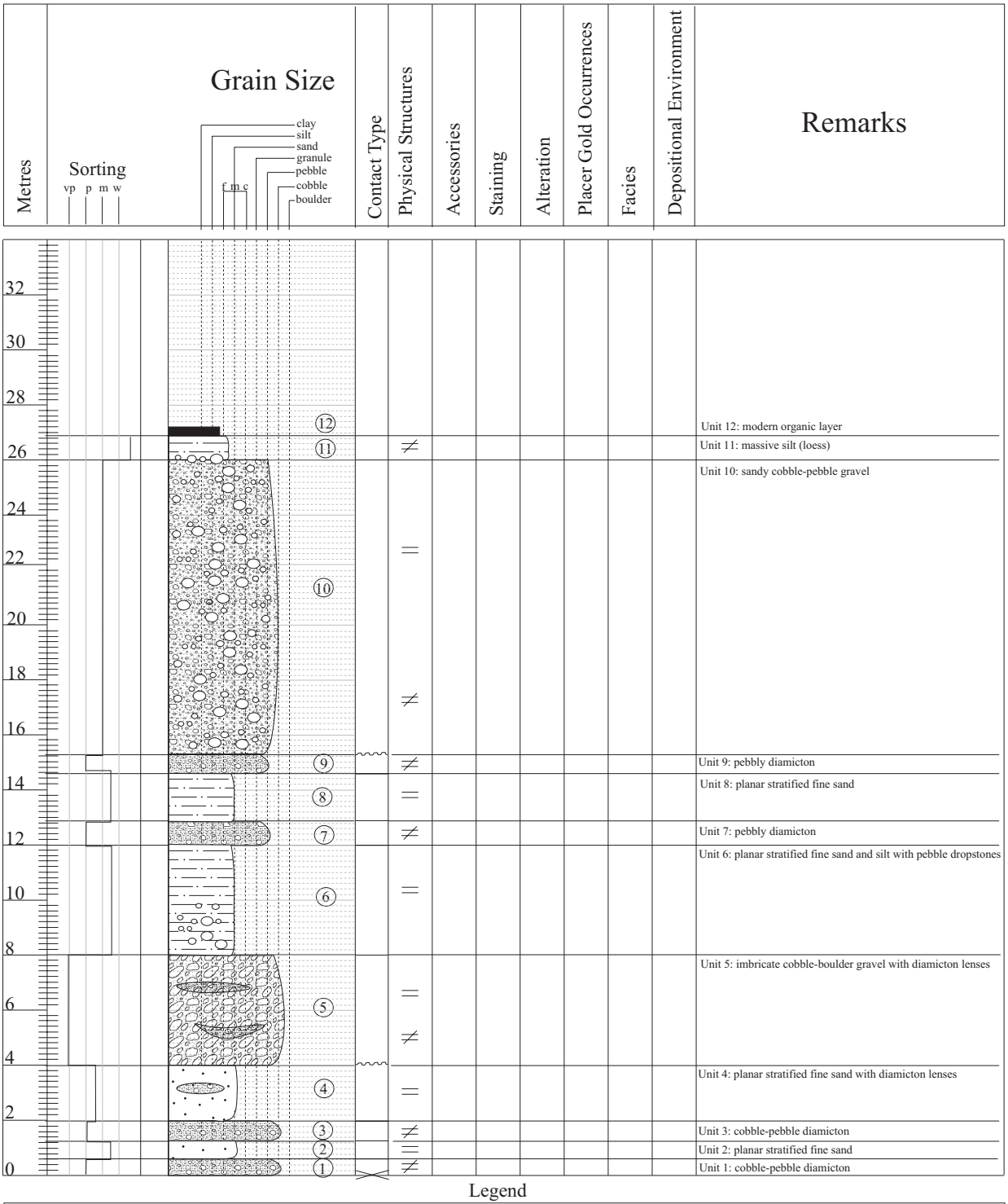


Legend

Lithology
Mud (Silt/clay) Gravel
Sand Diamicton

Physical Structures and Accessories
Planar stratified Massive Ripples Organics
Cross-stratified Trough cross-stratified Fossils

Date: 11/08/95 Section Number: FT7-95 Measured by: WPL Creek or River: Duncan Creek NTS: 105M13
Latitude: 63°47'19"N Longitude: 135° 30'21"W Elevation: 2480 Geomorphic Landform: Glaciofluvial Terrace
Orientation: 15 <----------> 195 Downstream



Legend

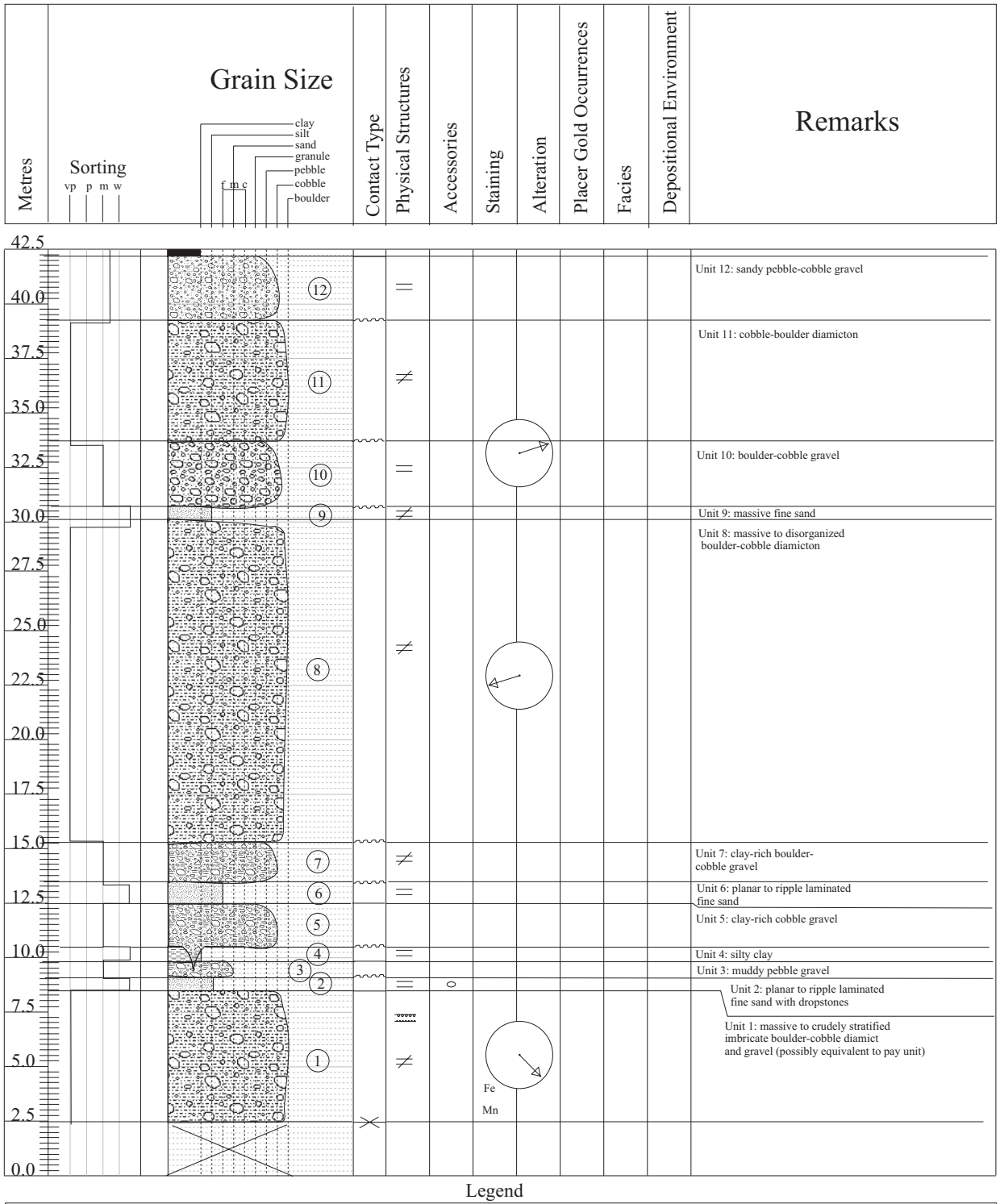
Lithology

Mud (Silt/clay) Gravel
Sand Diamicton

Physical Structures and Accessories

Planar stratified Massive Ripples Organics
Cross-stratified Trough cross-stratified Fossils

Date: 06/09/95 Section Number: FT8-95 Measured by: WPL Creek or River: Duncan Creek NTS: 105M14
Latitude: 63°47'32"N Longitude: 135°30'03"W Elevation: 2320 Geomorphic Landform: Glaciofluvial Terrace
Orientation: 10 <----------> 190 downstream

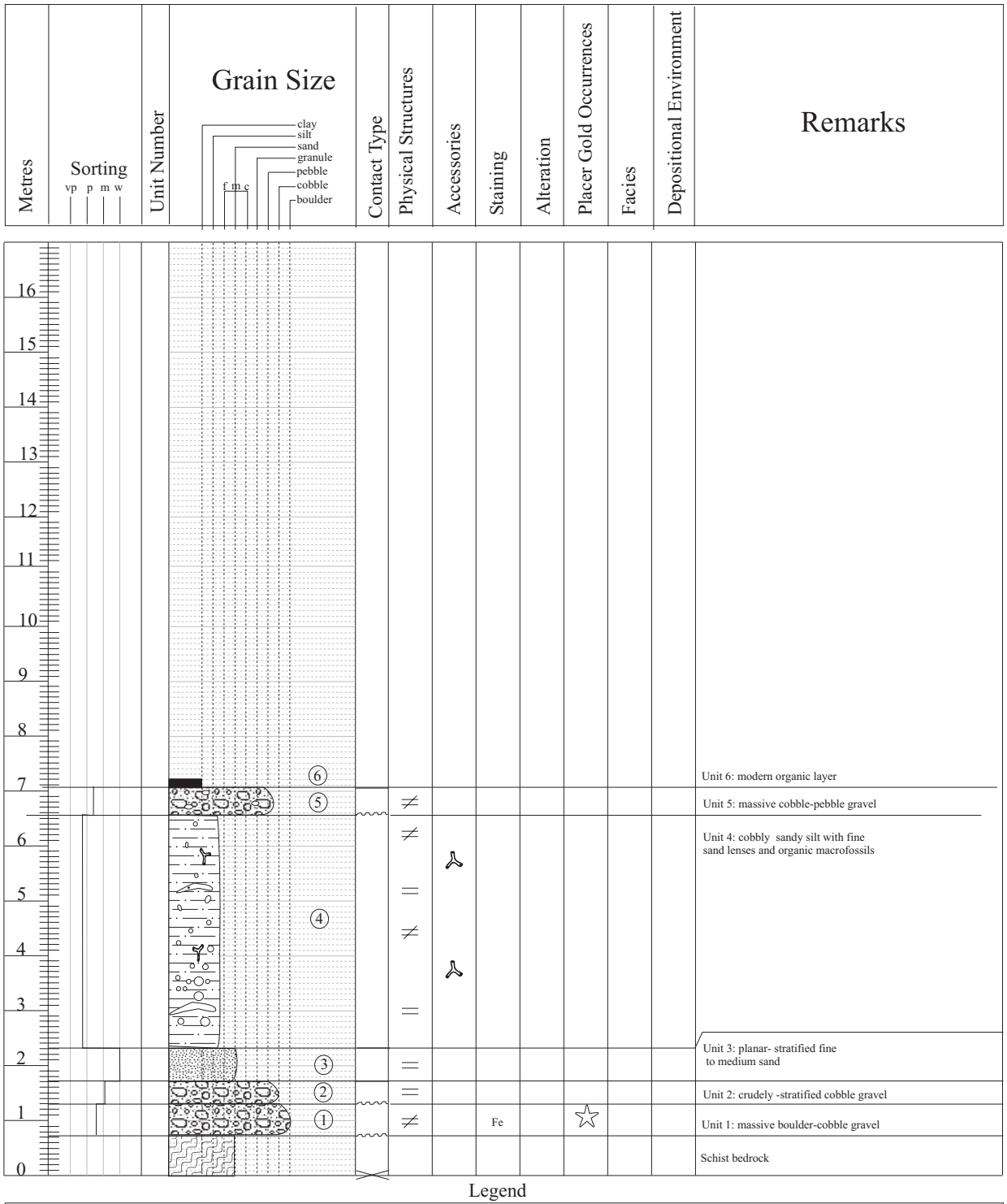


Legend

Lithology
Mud (Silt/clay) Gravel
Sand Diamicton

Physical Structures and Accessories
Planar stratified Massive Ripples Organics
Cross-stratified Trough cross-stratified Fossils

Date: 19/08/95 Section Number: HB1-95 Measured by: WPL Creek or River: Upper Duncan Creek NTS: 105M14
Latitude: 63°53'03"N Longitude: 135°19'30"W Elevation: 3350 ft Geomorphic Landform: Valley-fill
Orientation: 135 <----------> 315 Downstream



Legend

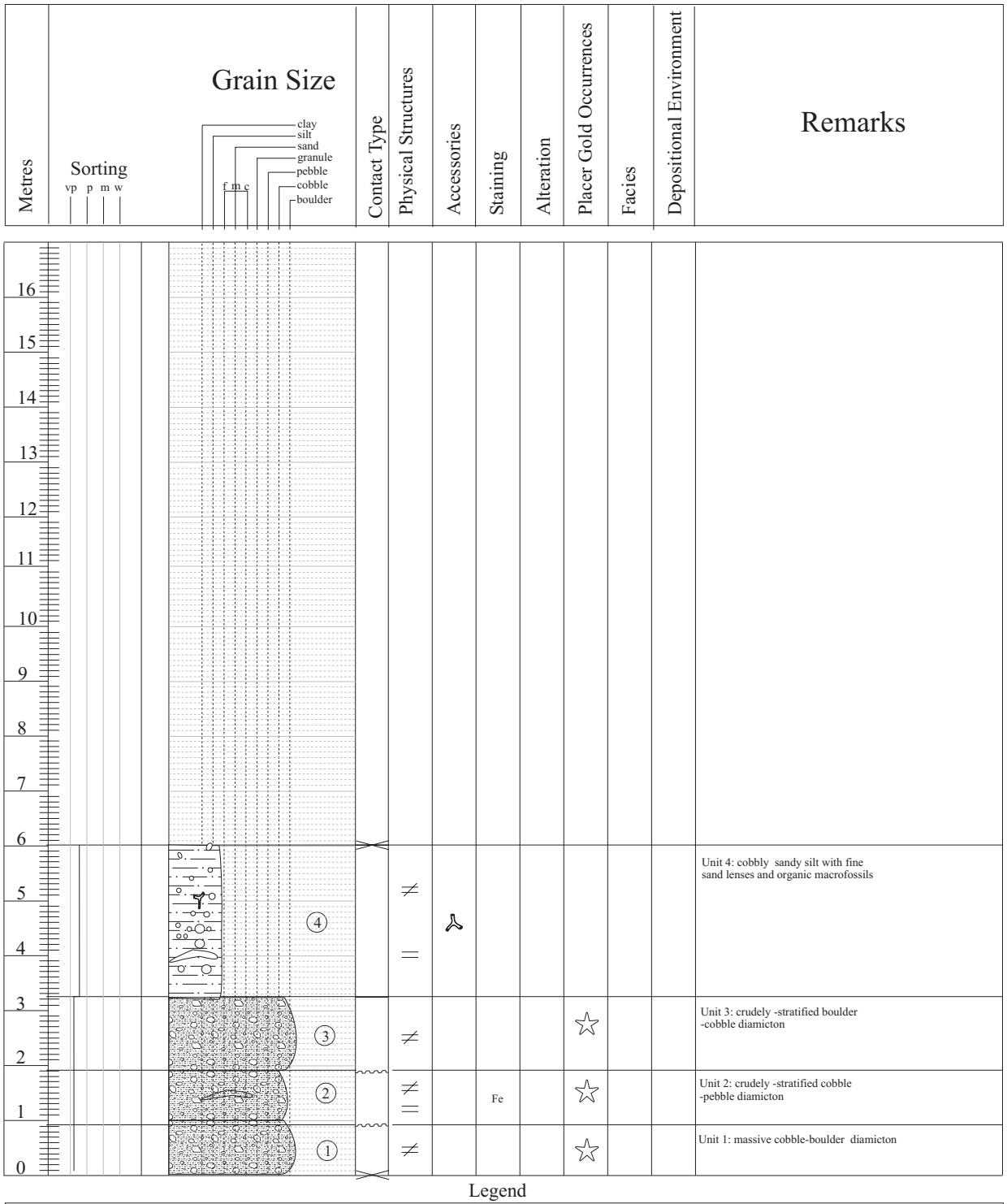
Lithology

Mud (Silt/clay) Gravel
Sand Diamicton

Physical Structures and Accessories

Planar stratified Massive Ripples Organics
Cross-stratified Trough cross-stratified Fossils

Date: 13/09/95 Section Number: HB2-95 Measured by: WPL Creek or River: Upper Duncan Creek NTS: 105M14
Latitude: 63°52'38"N Longitude: 135 °18'26"W Elevation: 3220 ft Geomorphic Landform: Valley-fill
Orientation: 020 <----------> 200 Downstream



Legend

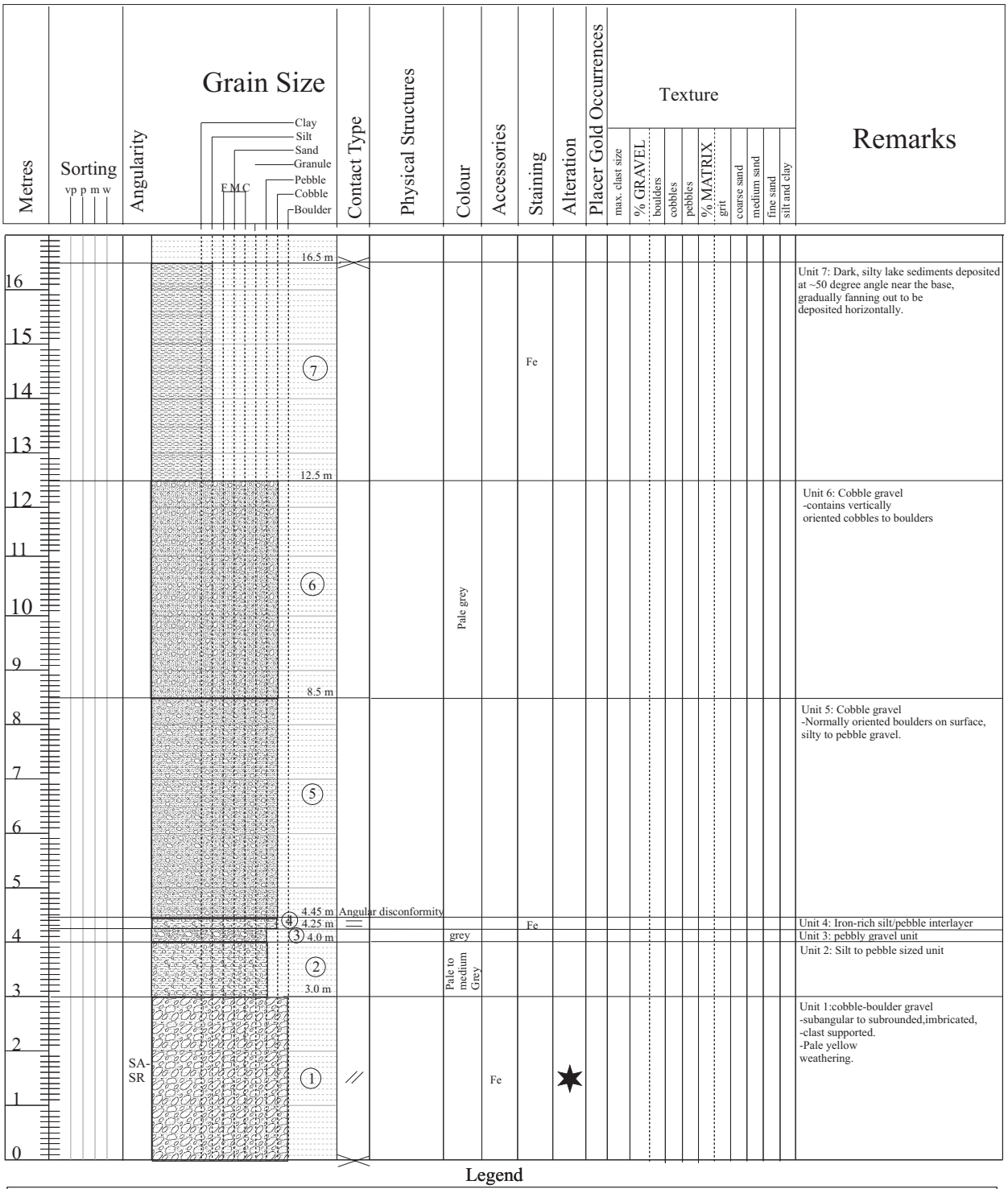
Lithology

Mud (Silt/clay) Gravel
Sand Diamicton

Physical Structures and Accessories

Planar stratified Massive Ripples Organics
Cross-stratified Trough cross-stratified Fossils

Date: 20/06/96 Section number: LW96-01 Measured by: LW, LM, BL Creek or River: Upper Duncan Creek NTS: 105M14
Latitude: 63°52'61" Longitude: 135°18'36" Elevation: 3225-3250 UTM:
Orientation: 300 ⟷ 120 upstream Geomorphic landform: Valley bottom



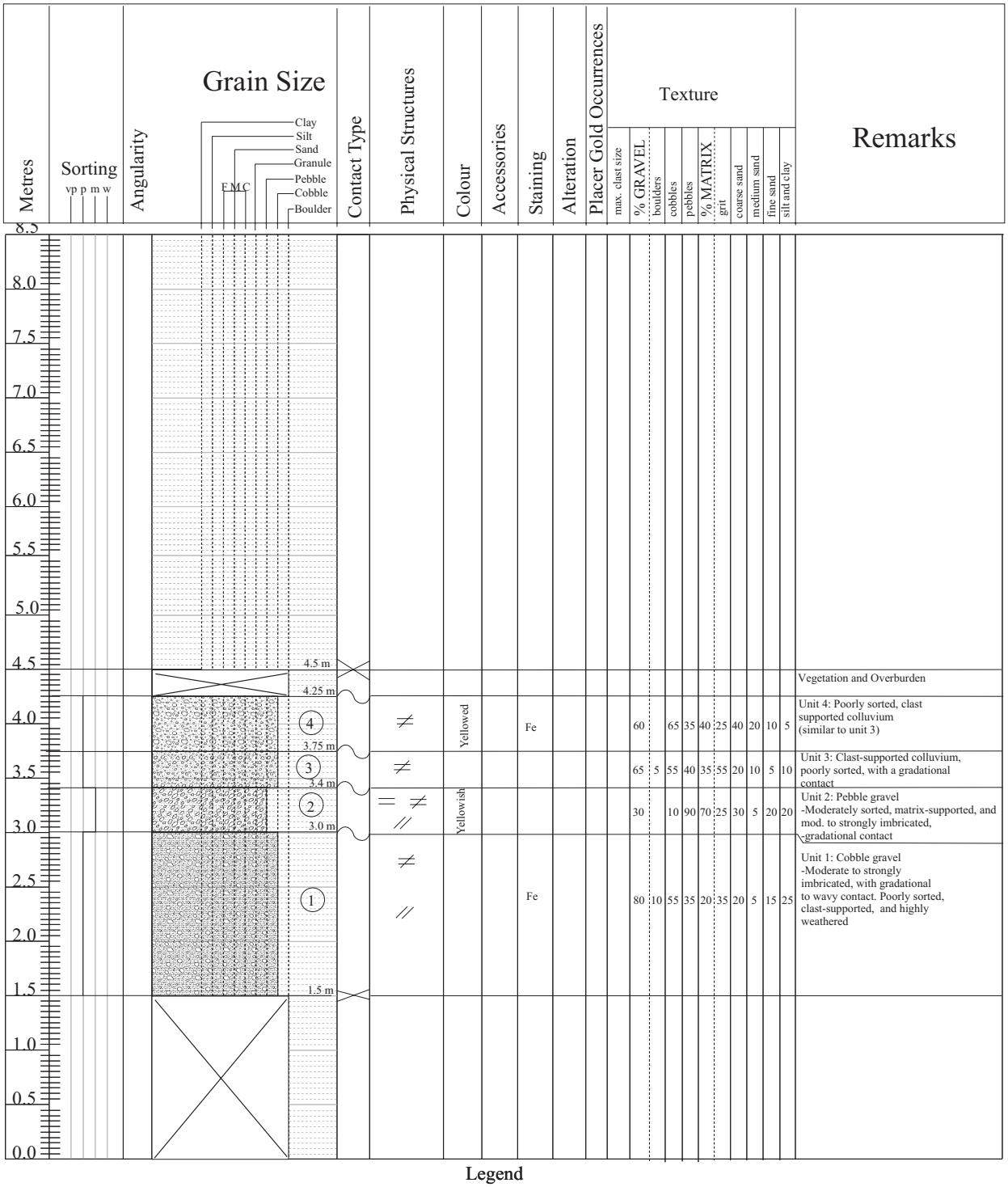
Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics
Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds
Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date:06/24/96 Section number: LW-96-03 Measured by: LW, LM Creek or River: Upper Duncan Creek NTS: 105M13

Latitude:63°53.08 Longitude:135°19.88 Elevation: UTM:

Orientation: 332 ⟷ 152 upstream Geomorphic landform: Valley



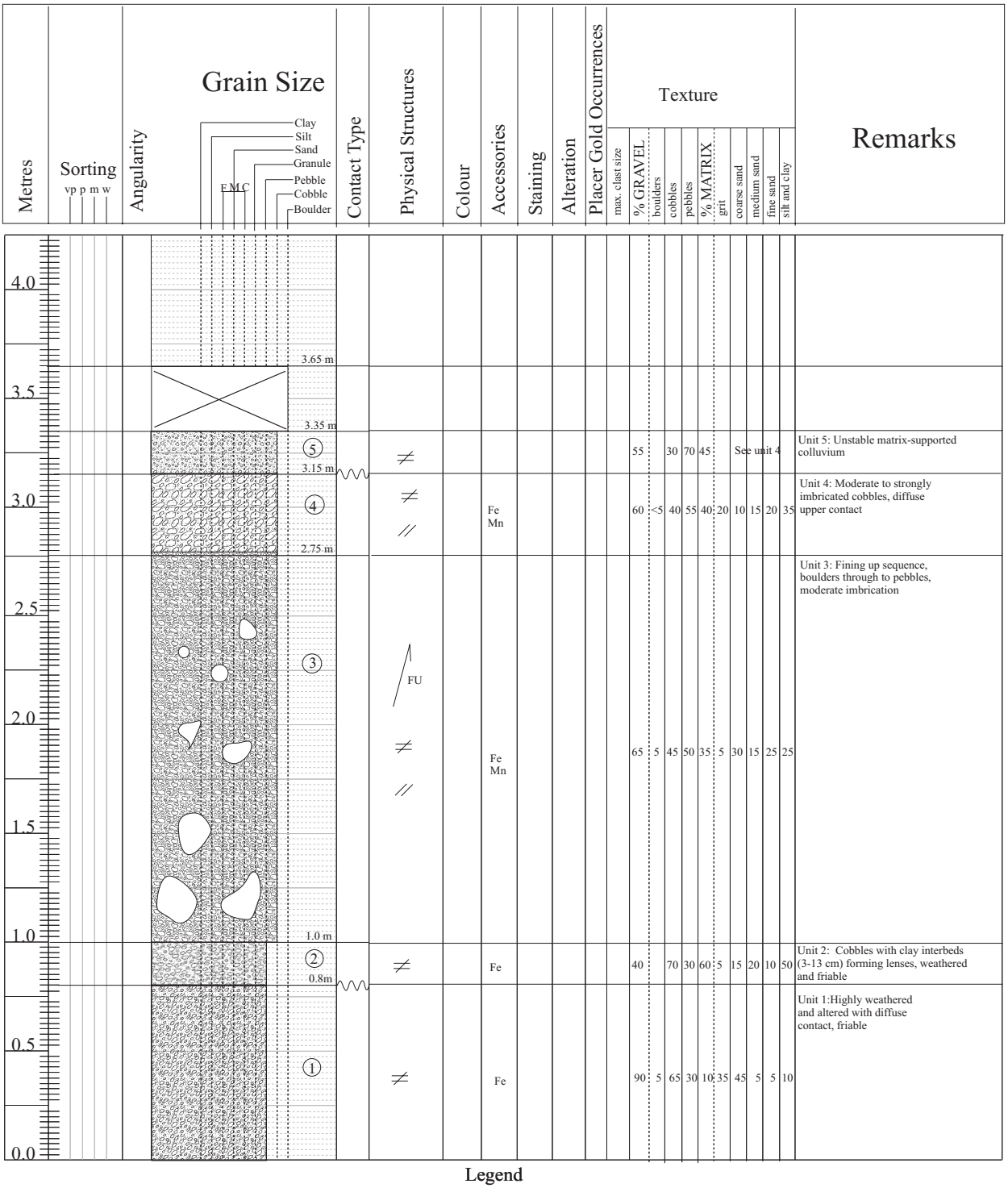
Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics

Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 25/06/96 Section number: LW96-04 Measured by: LW, LM Creek or River: Upper Duncan Creek / unnamed tributary NTS:
Latitude: 63°53.05 Longitude: 135°19.83 Elevation: 3030ft UTM:
Orientation: 302 ⟷ 122 upstream Geomorphic landform: Valley



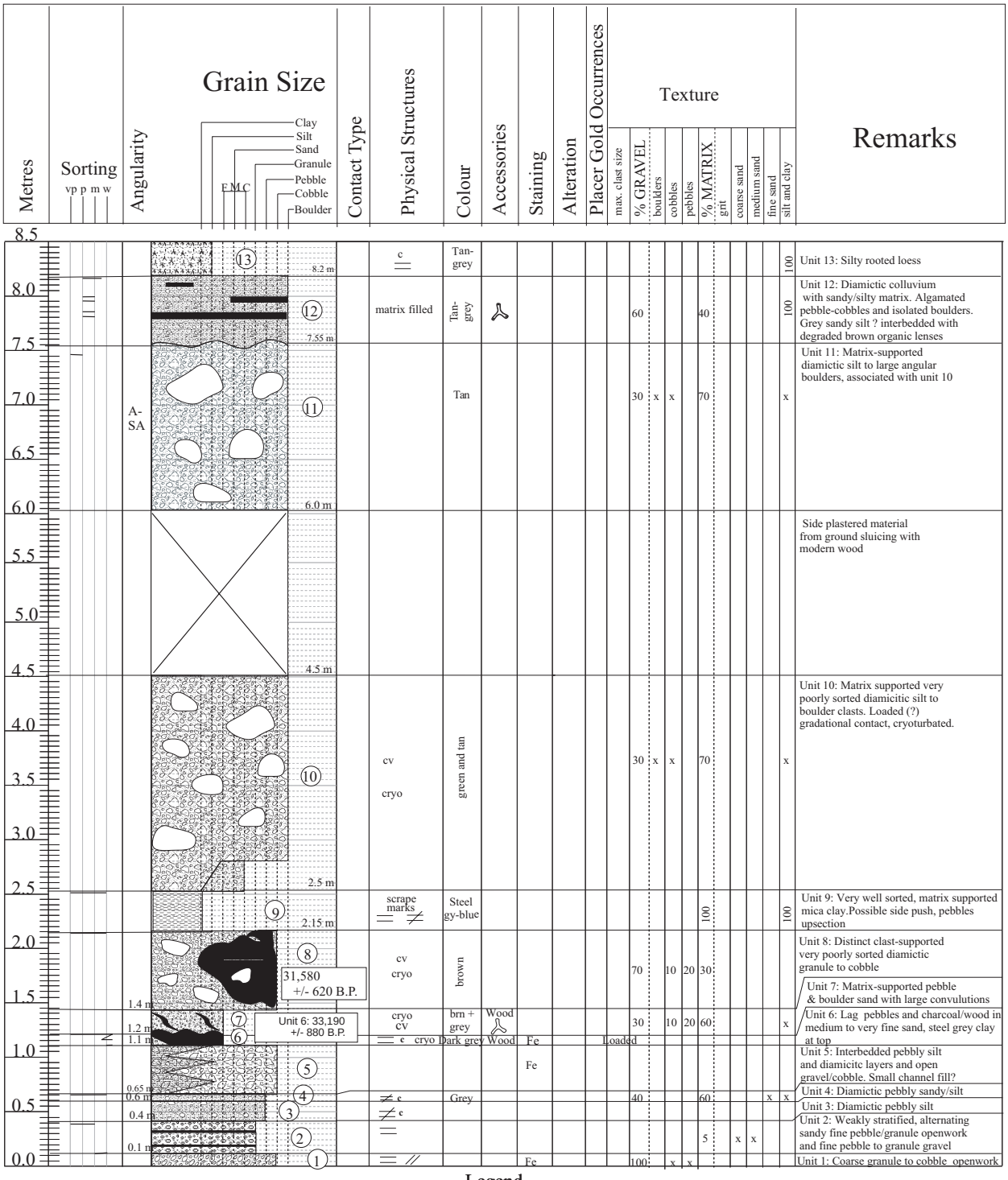
Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics
Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds
Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 04/07/96 Section number: UD-96-02 Measured by: WPL/MR Creek or River: Duncan Creek NTS: 105M14

Latitude: 63°52.64 Longitude: 135°18.45 Elevation: 3240 ft UTM: 0476570E,7076621N

Orientation: 310 ⟷ 130 upstream Geomorphic landform: Valley



Legend

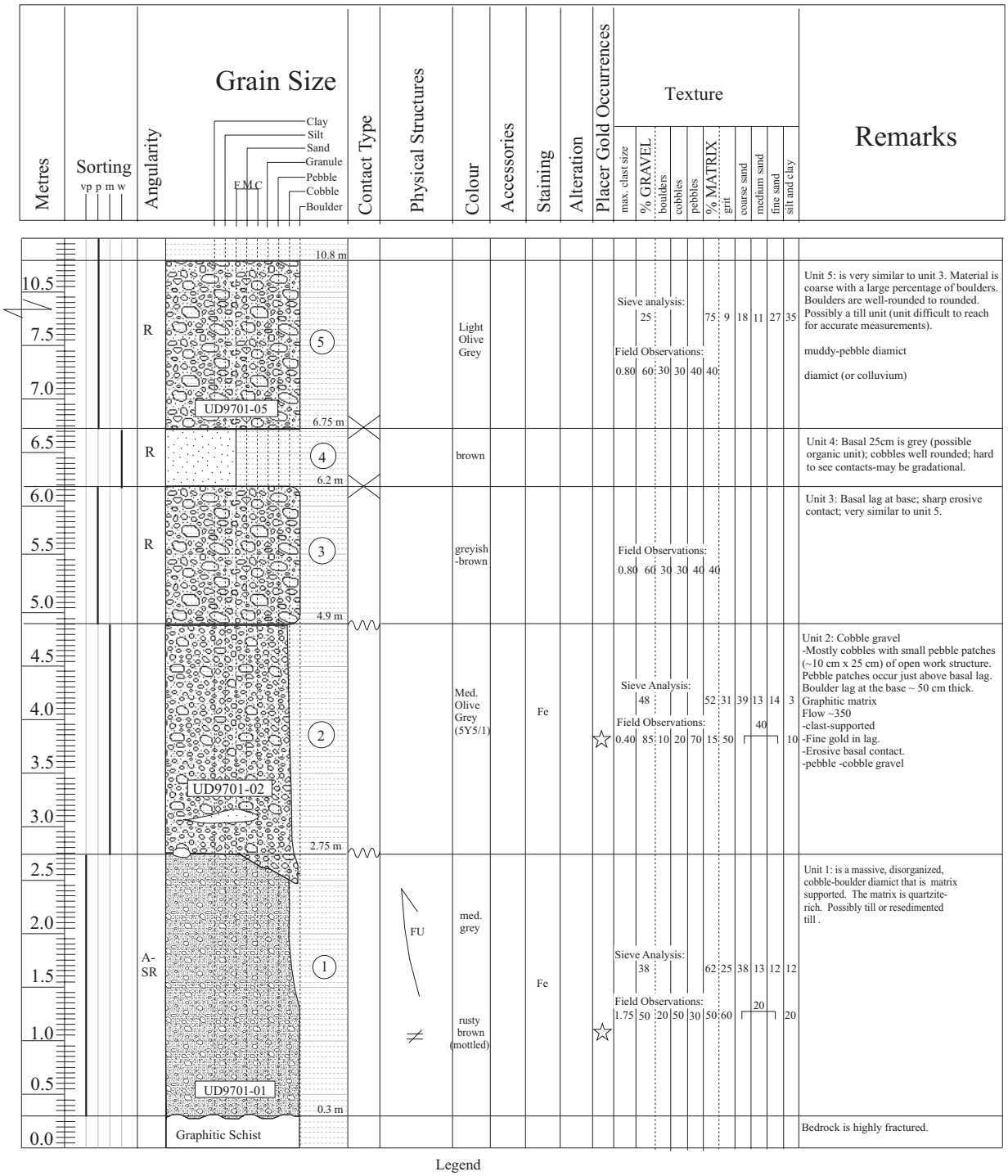
Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics

Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

This section is to the north of UD9702, along the cut face, approximately 23 metres away.

Date: 19/06/97 Section number: UD9701 Measured by: TA, WL, EK Creek or River: Upper Duncan Creek NTS: 105 M/14
Latitude: 63°53'22" Longitude: 135°20'29" Elevation: 3000 ft UTM: 483360E, 7084500N
Orientation: 165° ⟷ 345° Geomorphic landform: Alluvial terrace



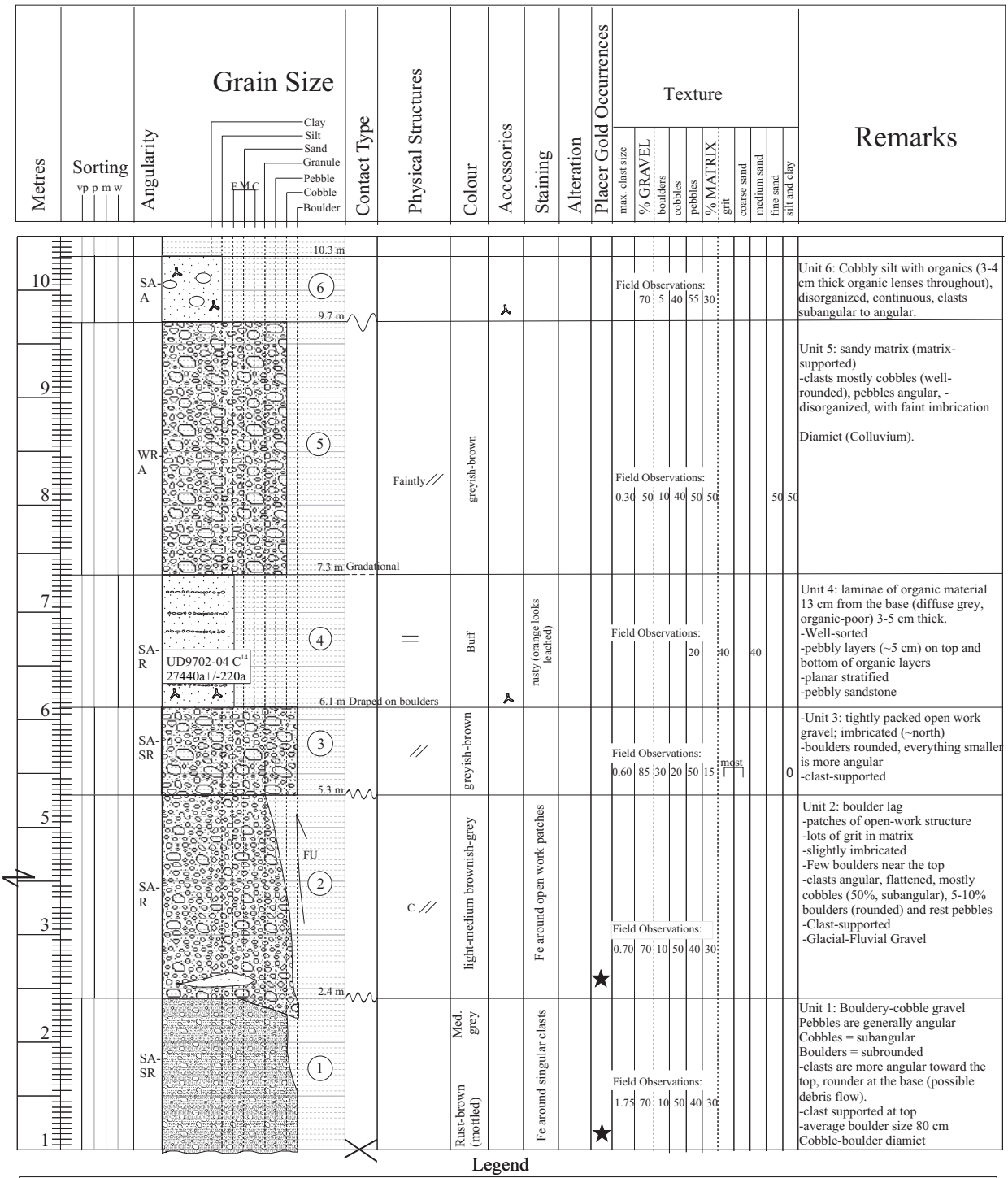
Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics
Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds
Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 21/06/97 Section number: Ud9702 Measured by: TA, WL, EK Creek or River: Upper Duncan Creek NTS: 105 M/14

Latitude: 63°53'22" Longitude: 135°20'29" Elevation: 3000 ft. UTM:

Orientation: 165 ⟷ 345 Geomorphic landform: Alluvial terrace / valley fill



Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics

Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds

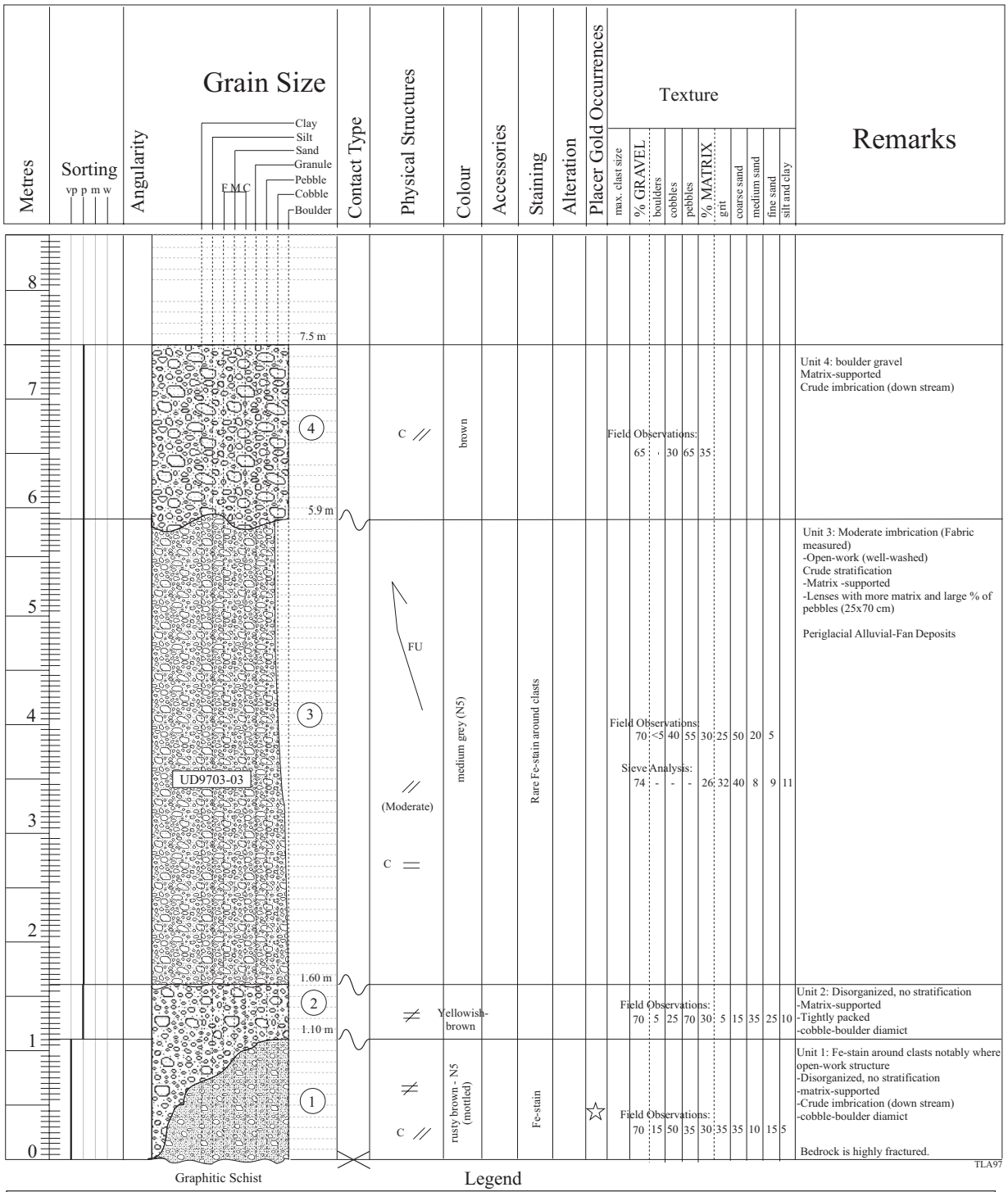
Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

This section occurs to the south of UD9701, along the cut face, approximately 23 metres apart.

Date: 14/08/ 97 Section number: UD9703 Measured by: TA, DP Creek or River: Upper Duncan Creek NTS: 105 M/14

Latitude: 63º53'16.9" Longitude: 135º20'14.8" UTM: 483429E, 7084384N Elevation: 3000 ft

Orientation: 150 ⟷ 330 Geomorphic landform: Alluvial terrace



Legend

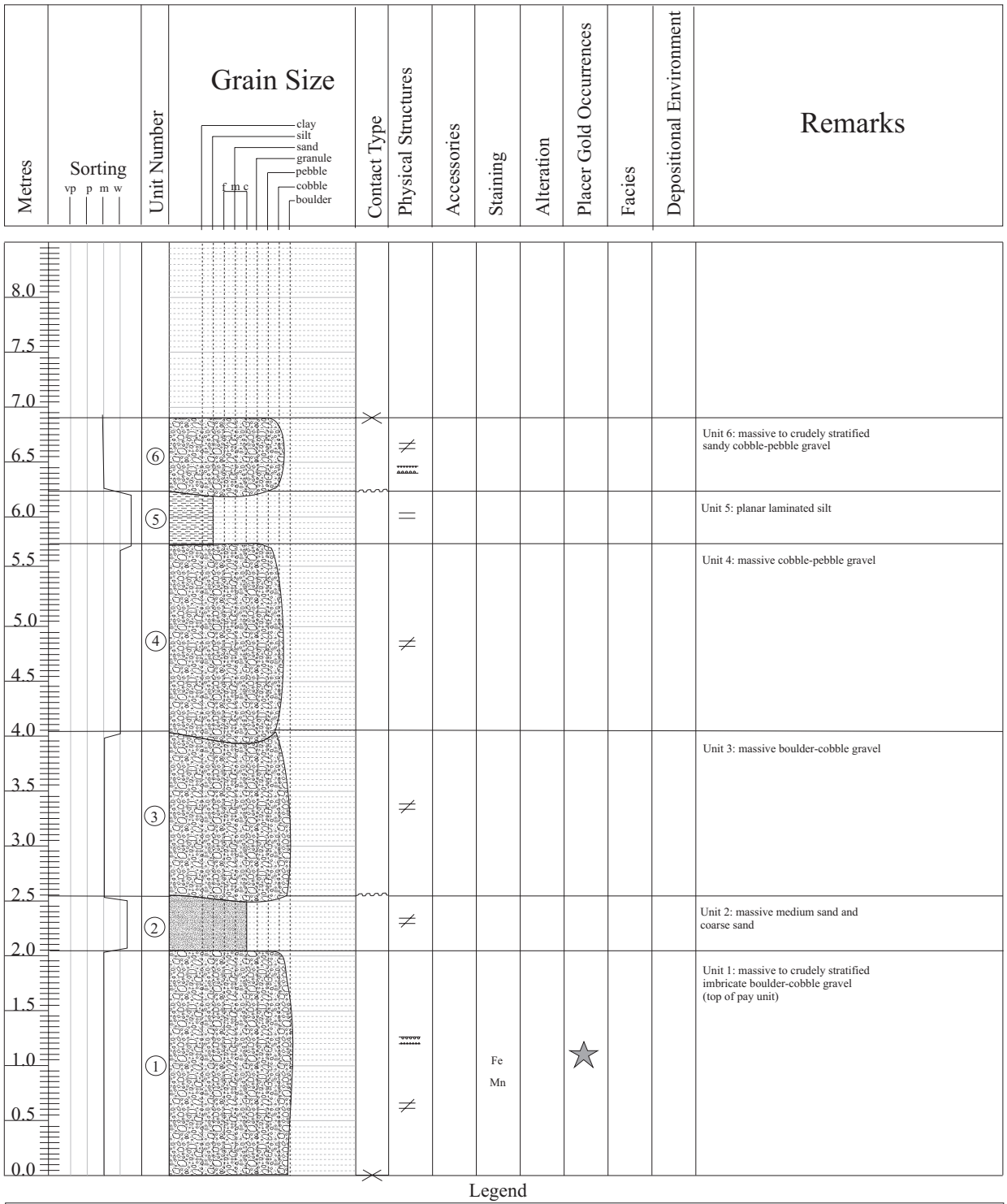
Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics

Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

This section is to the south of UD9702, along the cut face, approximately 100 metres away.

Date: 05/08/96 Section Number: WL9603 Measured by: CW/WL Creek or River: Duncan Creek NTS: 105M14
Latitude: 63°48'53"N Longitude: 135°28'52"W Elevation: 2460 Geomorphic Landform: Glaciofluvial Terrace/Alluvial Valley
Orientation: 20 <----------> 200 downstream



Legend

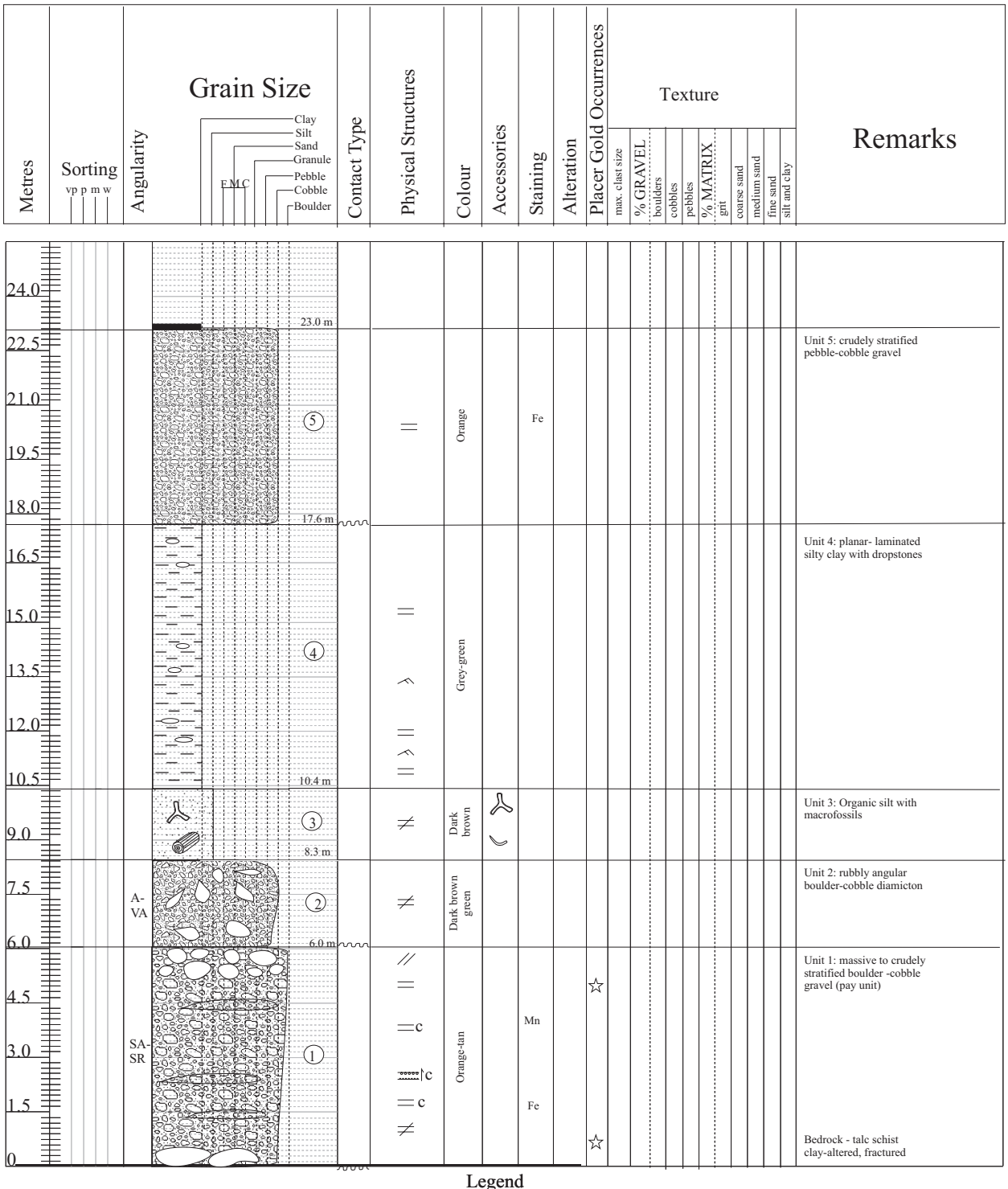
Lithology

Mud (Silt/clay) Gravel
Sand Diamicton

Physical Structures and Accessories

Planar stratified Massive Ripples Organics
Cross-stratified Trough cross-stratified Fossils

Date: 05/08/98 Section number: FT98-1-1 Measured by: WPL/MR Creek or River: Duncan Creek NTS: 105M14
Latitude: 63° 49'05"N Longitude: 135° 28'30"W Elevation: 2480 UTM: 0476570E,7076621N
Orientation: 200 ⟷ 20 upstream Geomorphic landform: Glaciofluvial Terrace



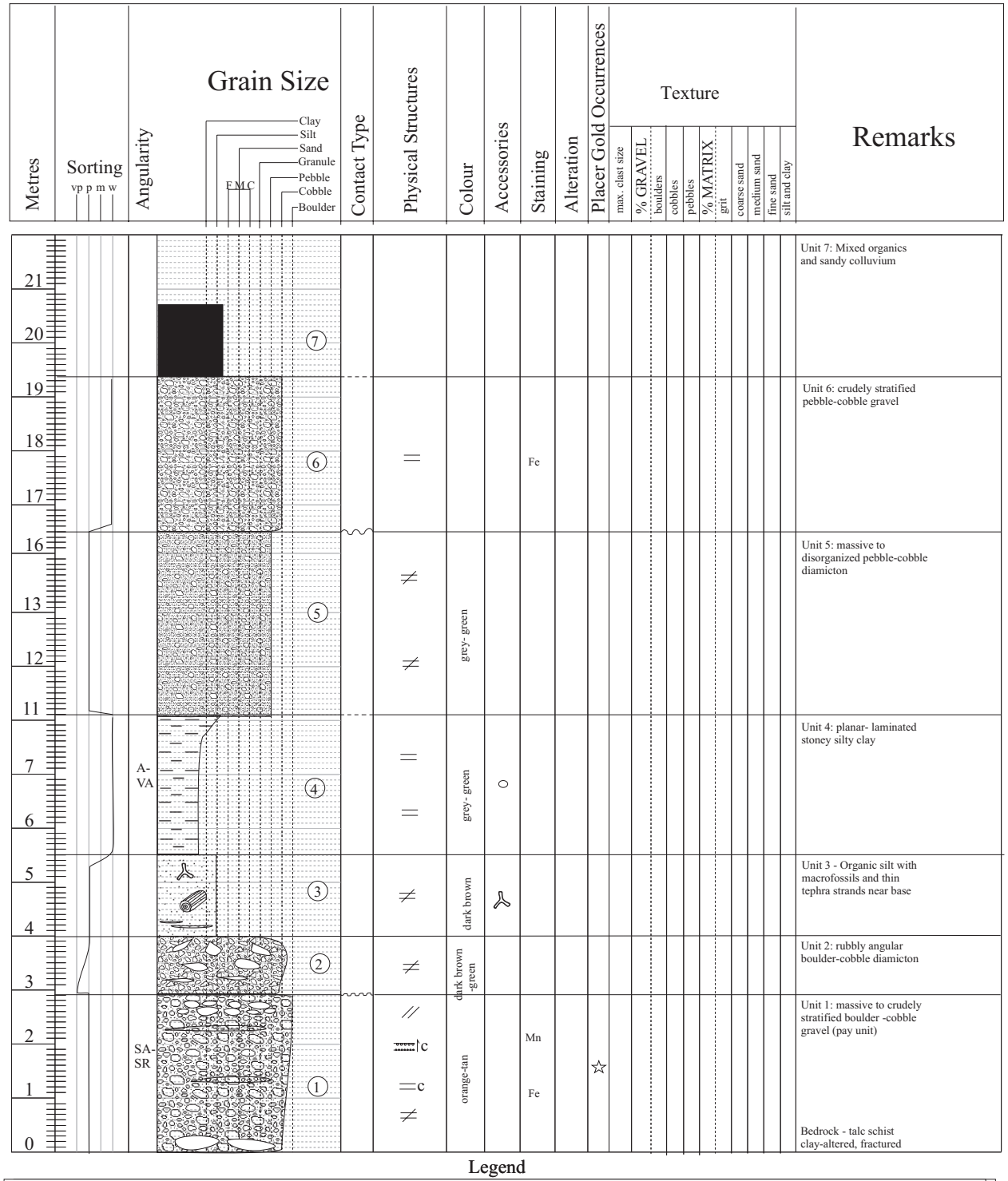
Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics
Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds
Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 05/08/98 Section number: FT98-1-2 Measured by: WPL/MR Creek or River: Duncan Creek NTS: 105M14

Latitude: 63°49'05"N Longitude: 135°28'30"W Elevation: 2480 ft UTM: 0476570E,7076621N

Orientation: 200 ⟷ 20 upstream Geomorphic landform: Glaciofluvial Terrace



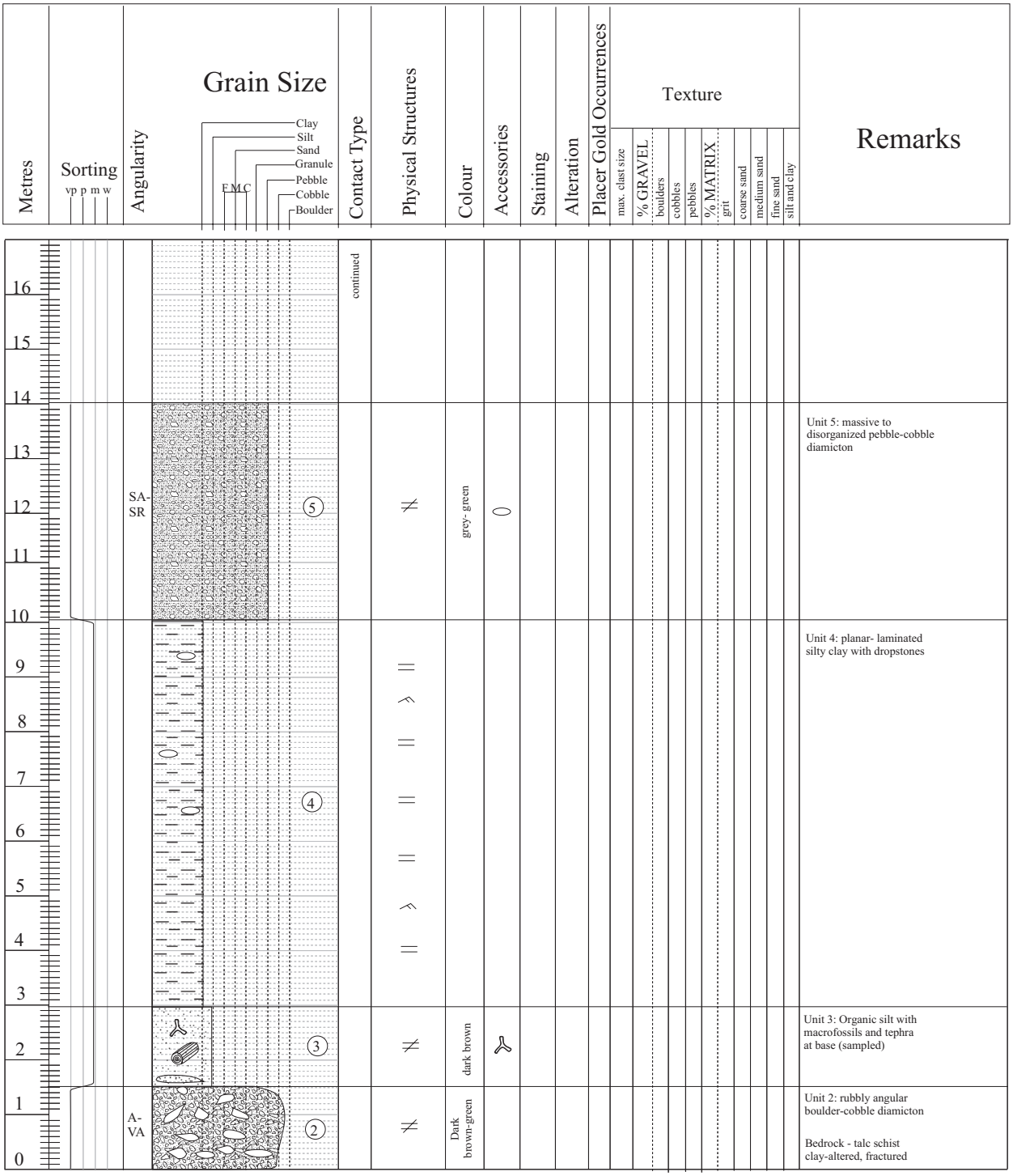
Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics

Sand Diamicton Cross-stratified Trough cross-stratified Fossils

Modifiers: c = crude d = discontinuous

Date: 05/08/98 Section number: FT98-1-3 Measured by: WPL/MR Creek or River: Duncan Creek NTS: 105M14
Latitude: 63°49'05"N Longitude: 135°28'30"W Elevation: 2480 UTM: 0476570E,7076621N
Orientation: 273 ⟷ 93 cross-valley Geomorphic landform: Glaciofluvial Terrace



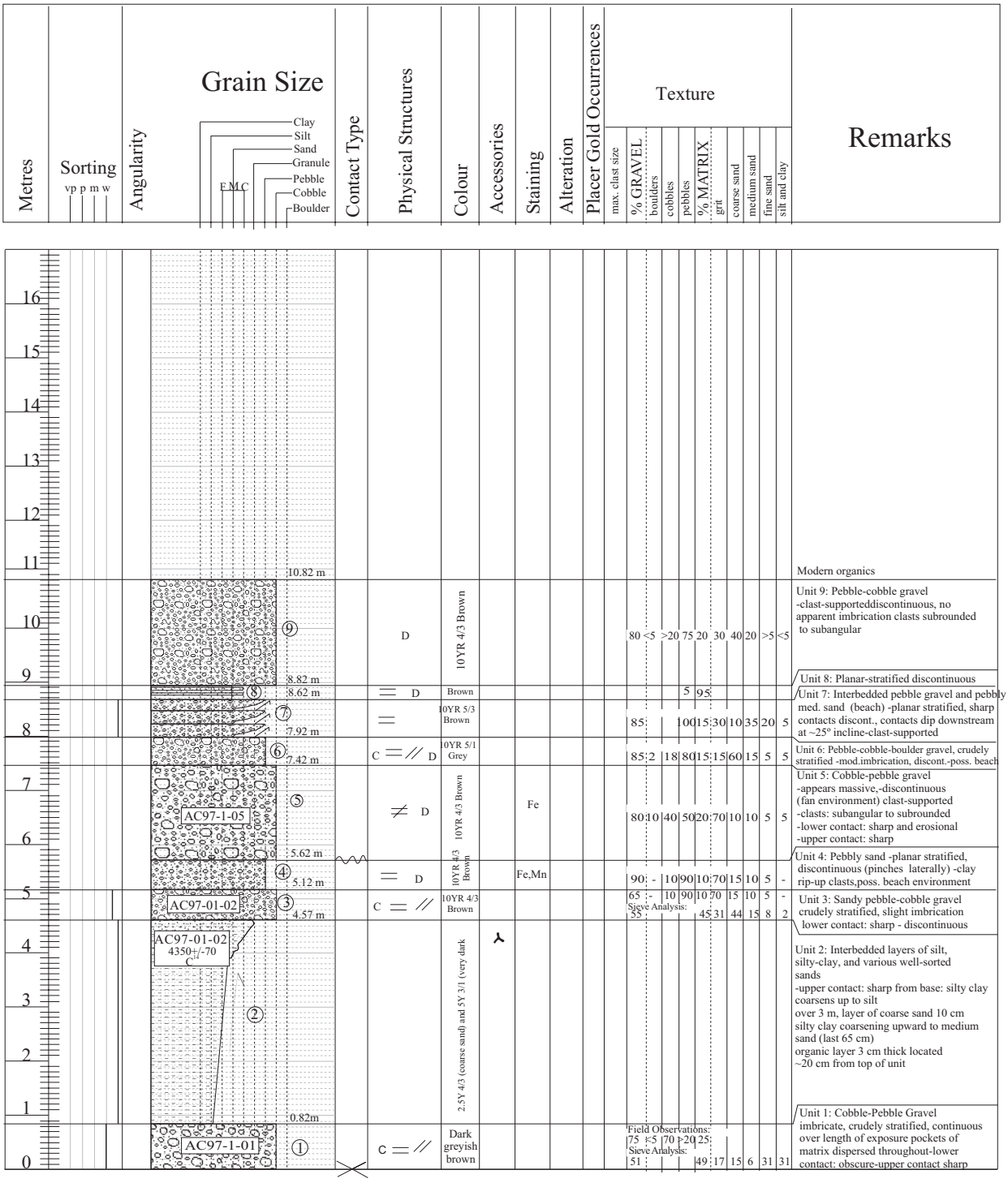
Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics
Sand Diamicton Cross-stratified Trough cross-stratified Fossils
Modifiers: c = crude d = discontinuous

Date: 02/07/1997 Section number: AC9701 Measured by: WL, DM Creek or River: Anderson Creek NTS: 105M/11

Latitude: 63º43.78' Longitude: 135º01.54' Elevation: 2320 ft UTM: 498703, 7066649

Orientation: 025º ⟷ 205º Geomorphic landform: Alluvial-fan Delta



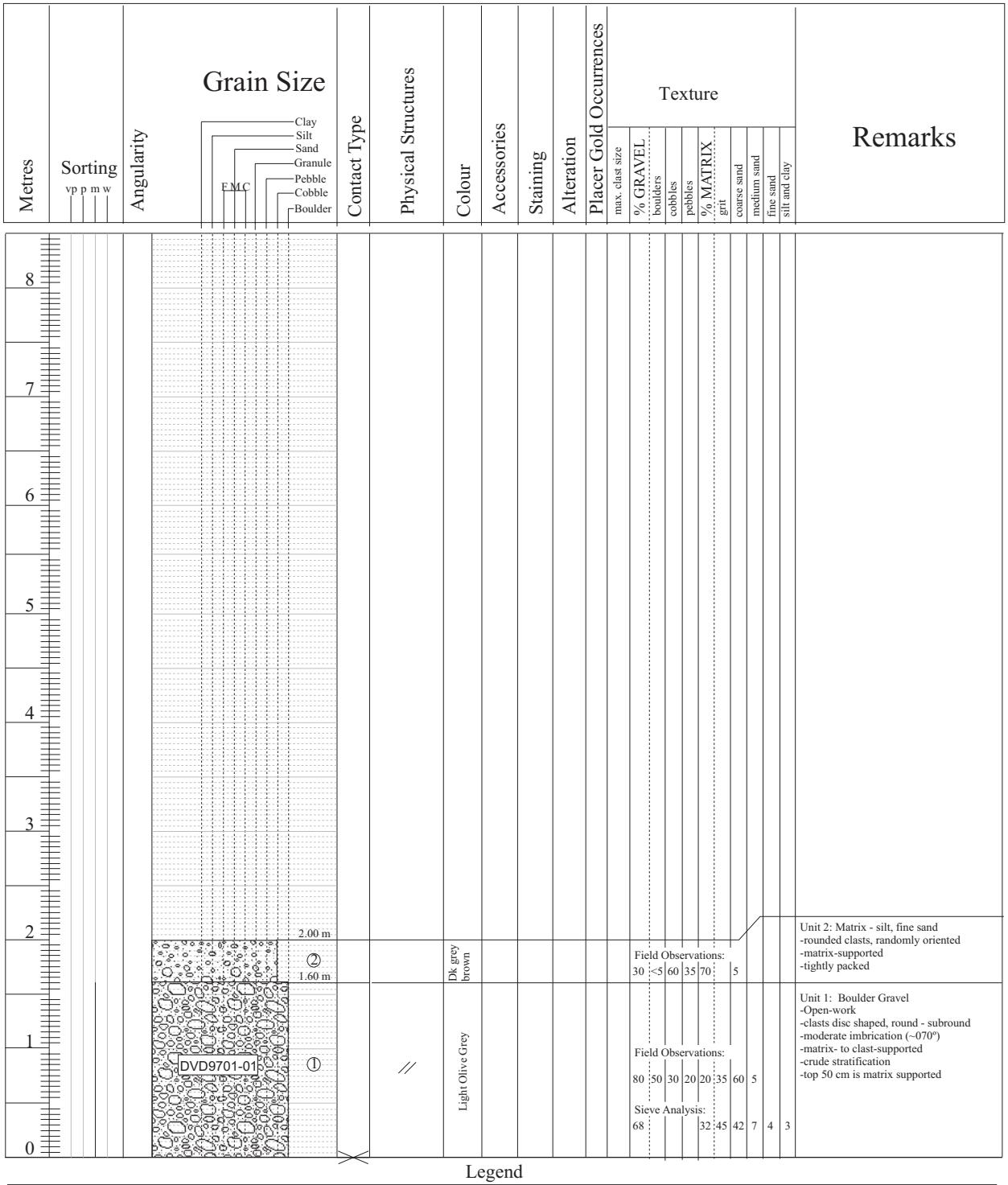
Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics

Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

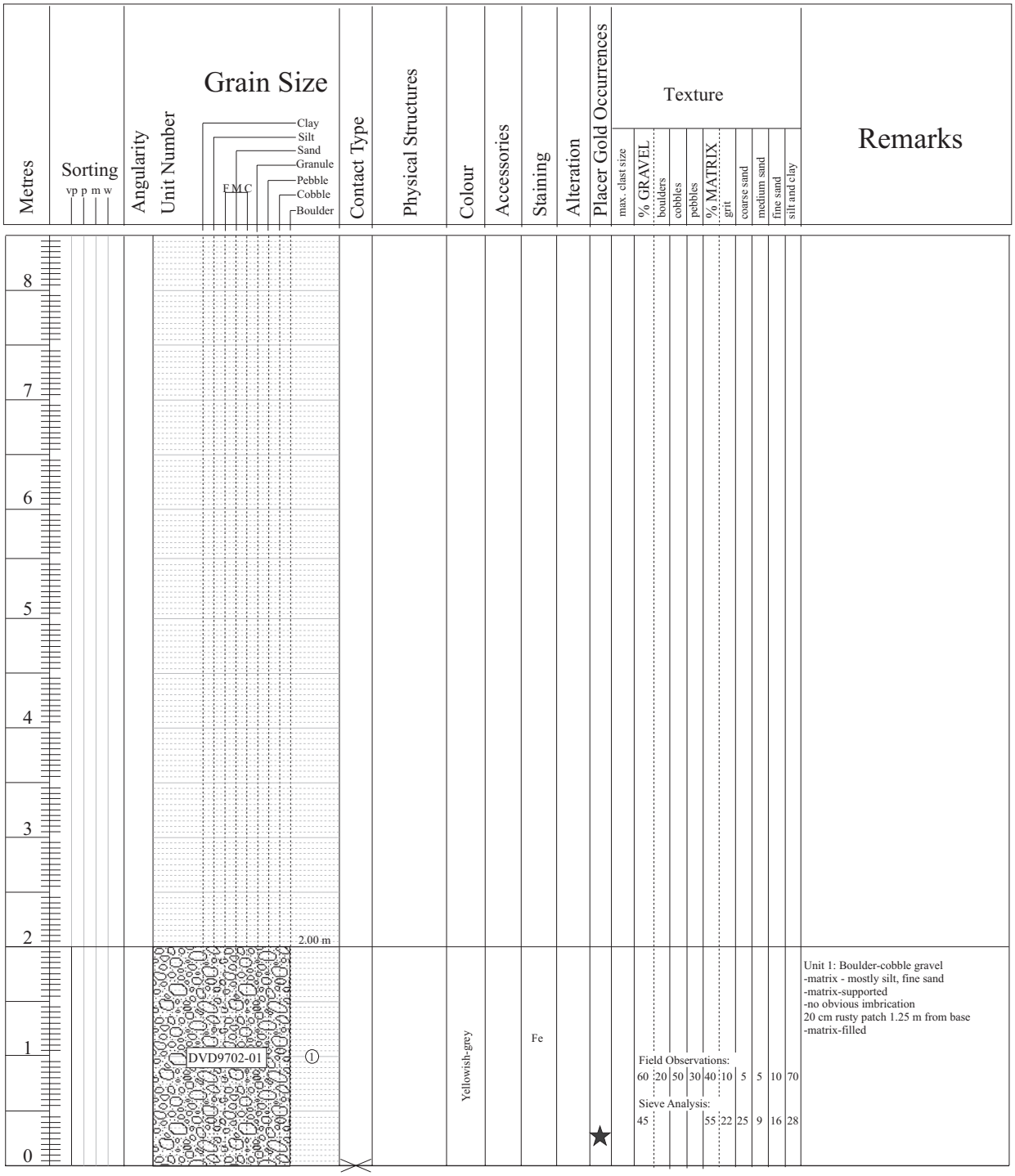
Date: 16/08/97 Section number: DVD9701 Measured by: TA, DP Creek or River: Davidson Creek NTS: 105M/11
Latitude: 63°43'46.2" Longitude: 135°25'05.0" UTM: N7066742, E0479353 Elevation: ~2600 ft
Orientation: 075 ⟷ 255 Geomorphic landform:



Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics
Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds
Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

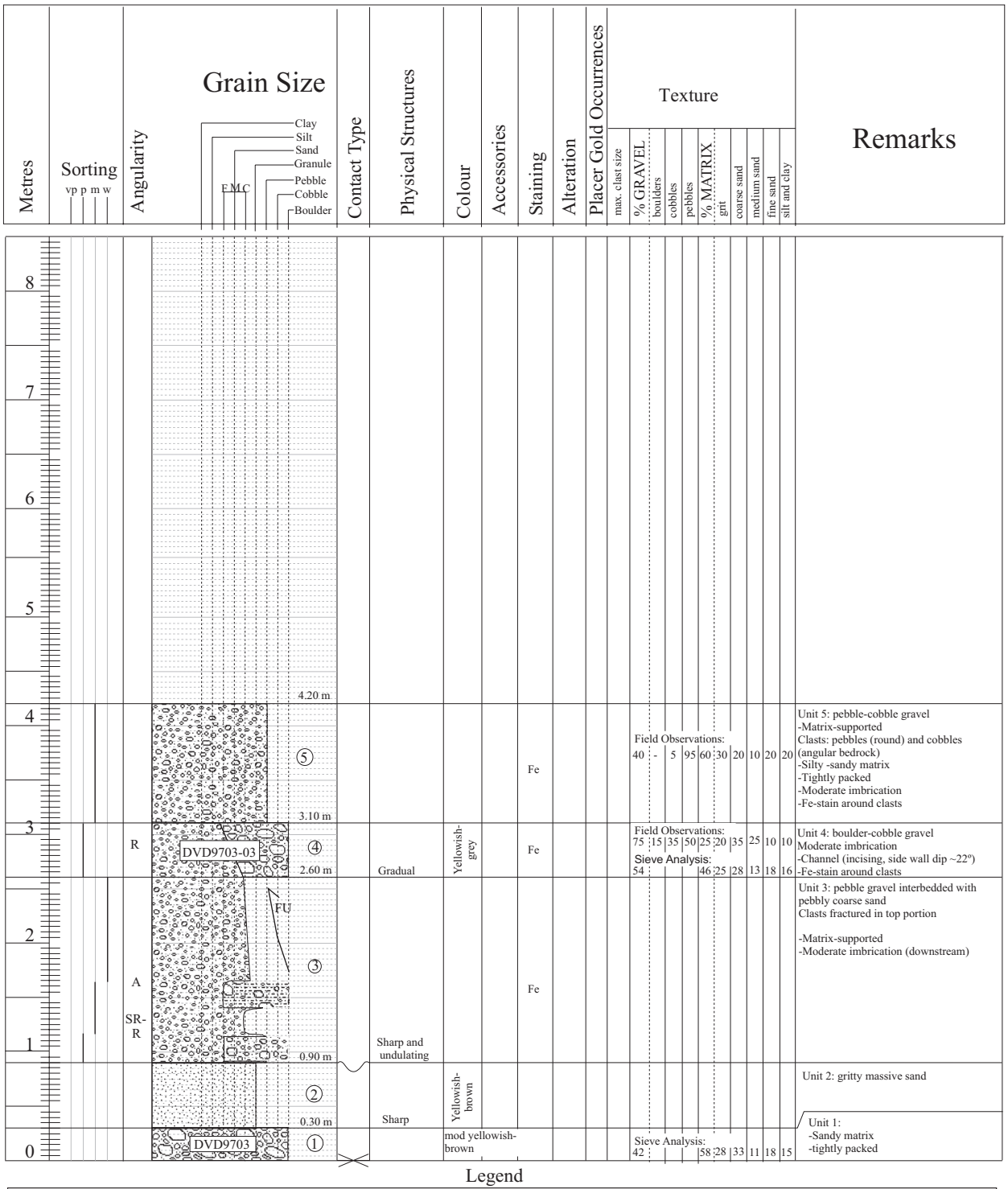
Date: 16/08/97 Section number: DVD9702 Measured by: TA, DP Creek or River: Davidson Creek NTS: 105M/11
Latitude: 63º43'51.3" Longitude: 135º25'09.0" UTM: N7066910, E0479322 Elevation: ~2600 ft
Orientation: 015º ⟷ 195º Geomorphic landform:



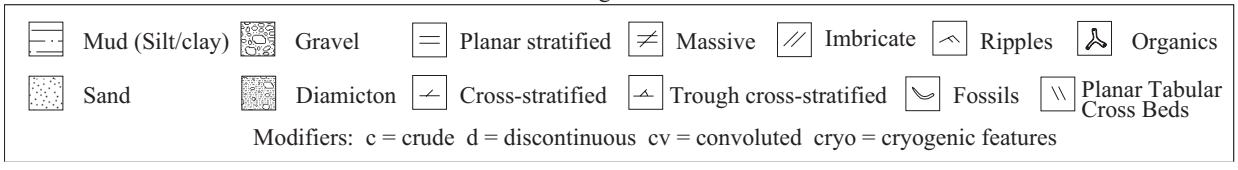
Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics
Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds
Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 29/08/97 Section number: DVD9703 Measured by: TA/DP Creek or River: Davidson Creek NTS: 105M / 11
Latitude: 63°43'51" N Longitude: 135°25'7.2" UTM: 479325E 7066891N Elevation: 2400 ft
Orientation: 330º DS ⟷ 150º US Geomorphic landform: Valley fill



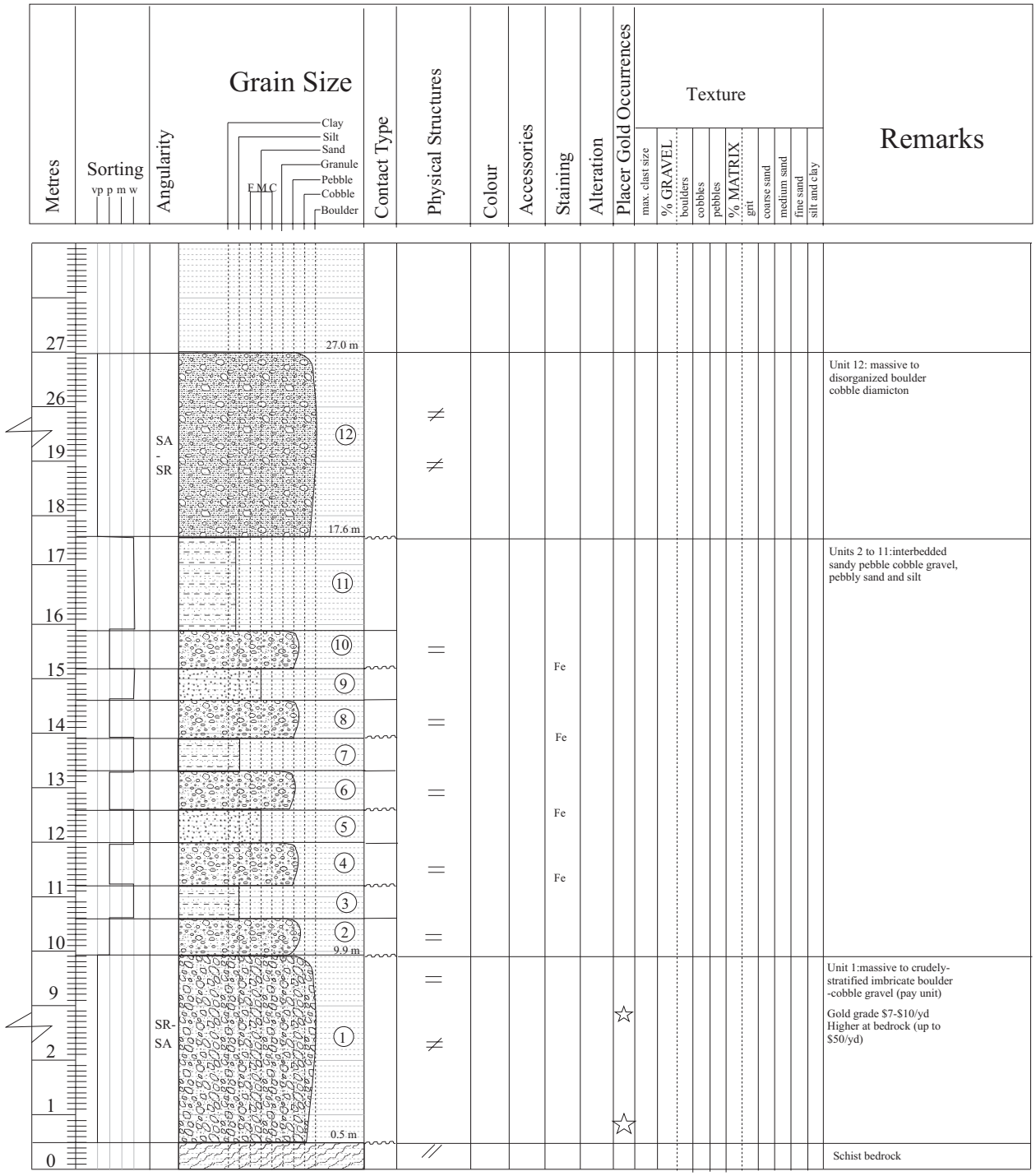
Legend



Date: 16/08/95 Section number: RB1-95 Measured by: WPL Creek or River: Ledge Creek NTS: 115P16

Latitude 63°40'37"N Longitude: 134°50'40"W Elevation: 2450 UTM: 0507696E,7060828N

Orientation: 225 ⟷ 135 (upstream) Geomorphic landform: Alluvial Fan-Delta



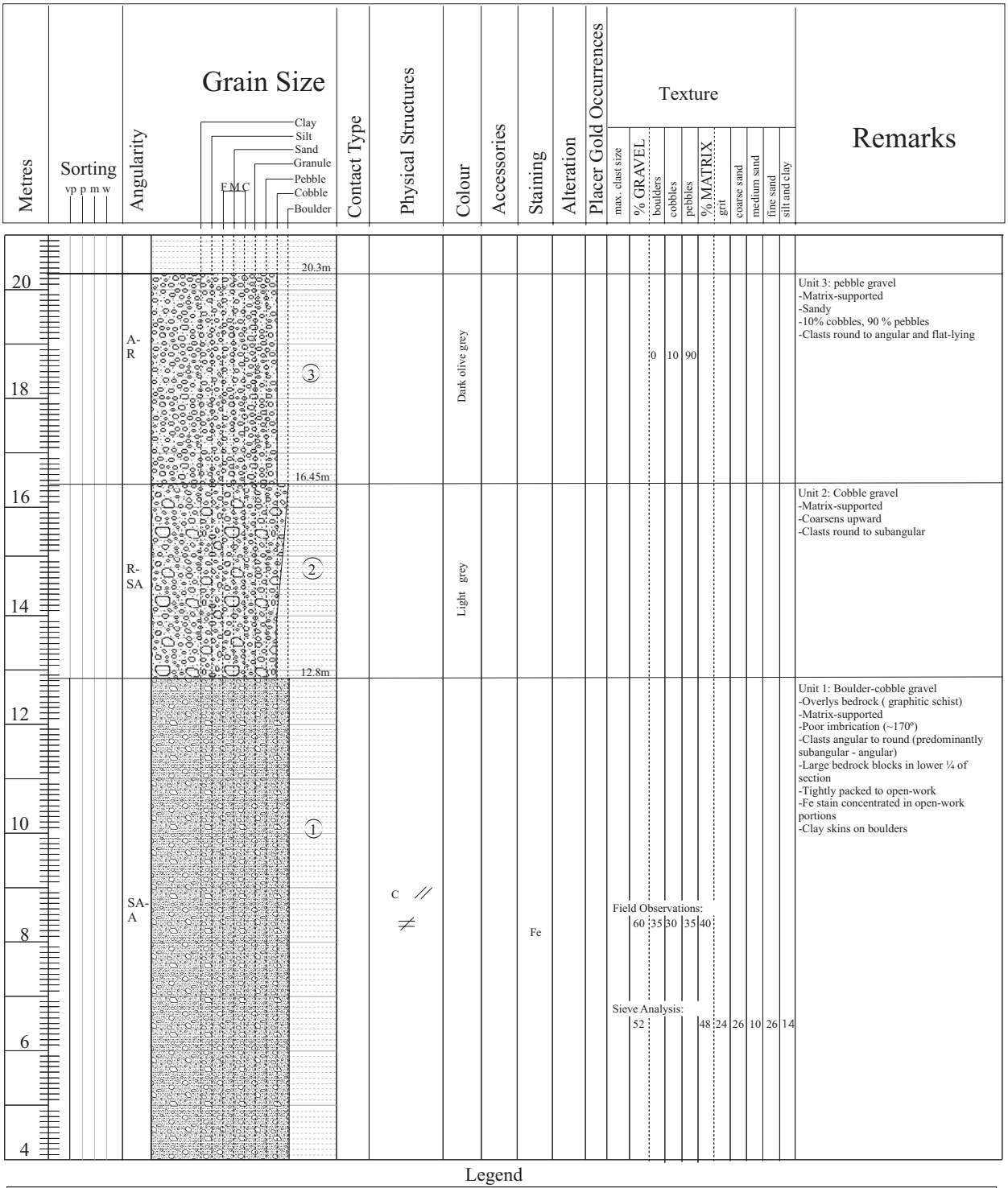
Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics

Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

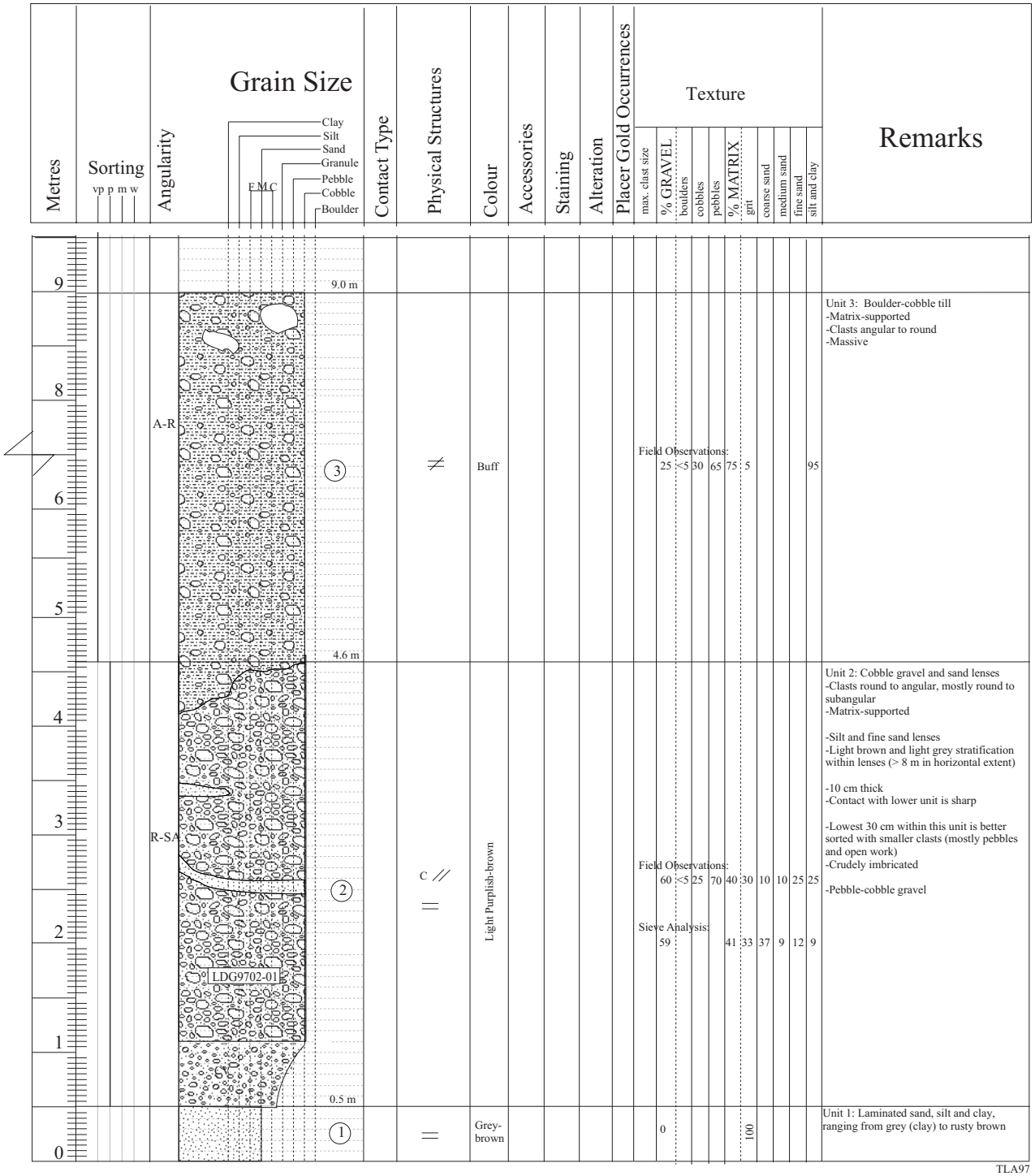
Date: 04/08/97 Section number: LDG9701 Measured by: TA, LM, DM Creek or River: Ledge Creek NTS: 105M/10
Latitude: 63º40'54.0" Longitude: 134°50'20.4" Elevation: 2200 ft UTM: E507965, N7061358
Orientation: 010° ⟷ 190° Geomorphic landform: Alluvial fan delta



Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics
Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds
Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

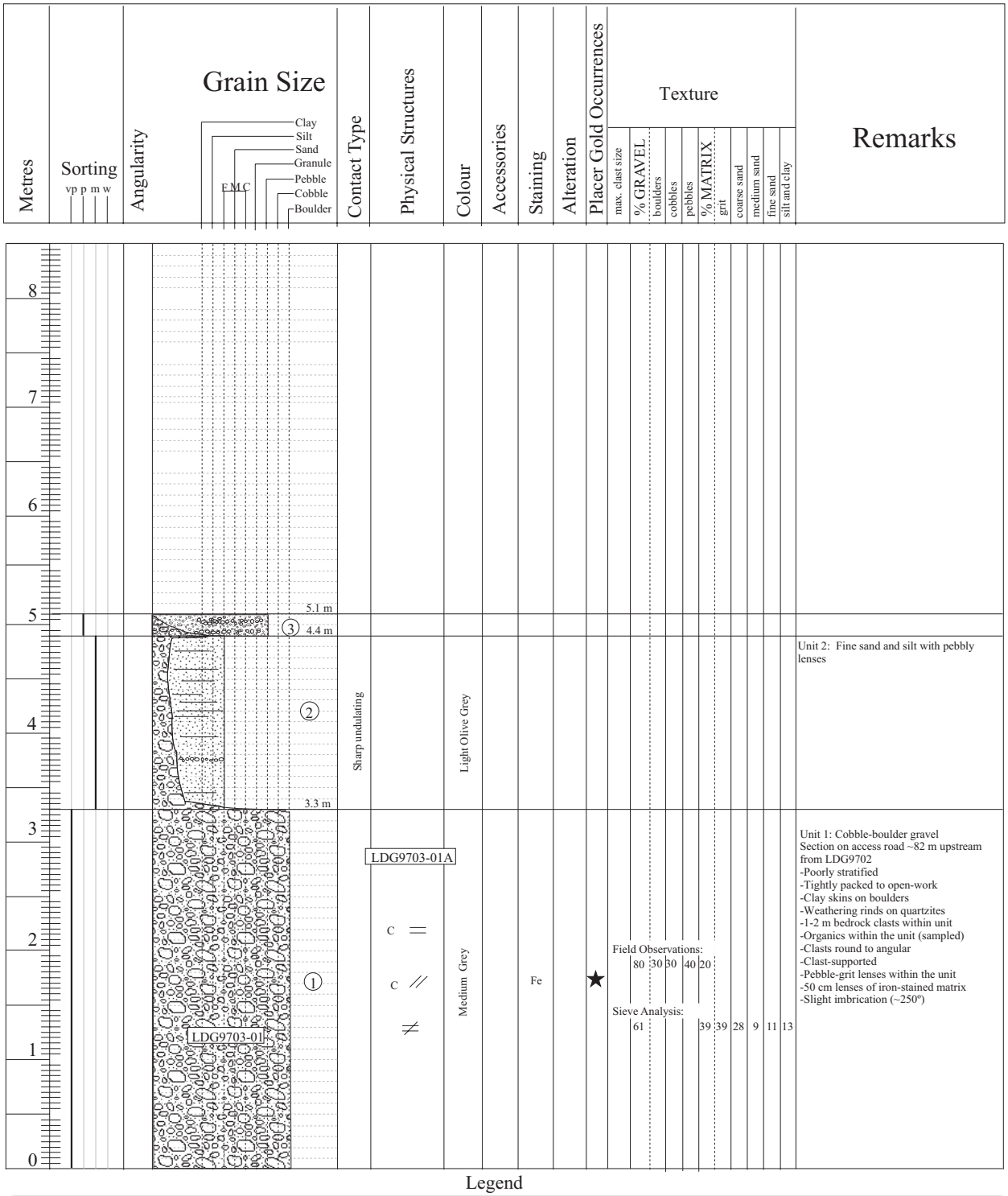
Date: 04/08/97 Section number: LDG9702 Measured by: LM,DM Creek or River: Ledge Creek NTS: 105 M/10
Latitude: 63º40'37.9" Longitude: 134º50'29.8" Elevation: 2450 ft UTM: E507837, N7060858
Orientation: 215º ds ⟷ 035º us Geomorphic landform: Alluvial Fan-Delta



Legend

Mud (Silt/clay) | Gravel | Planar stratified | Massive | Imbricate | Ripples | Organics
Sand | Diamicton | Cross-stratified | Trough cross-stratified | Fossils | Planar Tabular Cross Beds
Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 04/08/97 Section number: LDG9703 Measured by: TA Creek or River: Ledge Creek NTS: 105 M/10
Latitude: 63°40'37.9" Longitude: 134°50'29.8" Elevation: 2500 ft UTM: E507837, N7060858
Orientation: 215° ⟷ 035° Geomorphic landform: Alluvial Fan-Delta



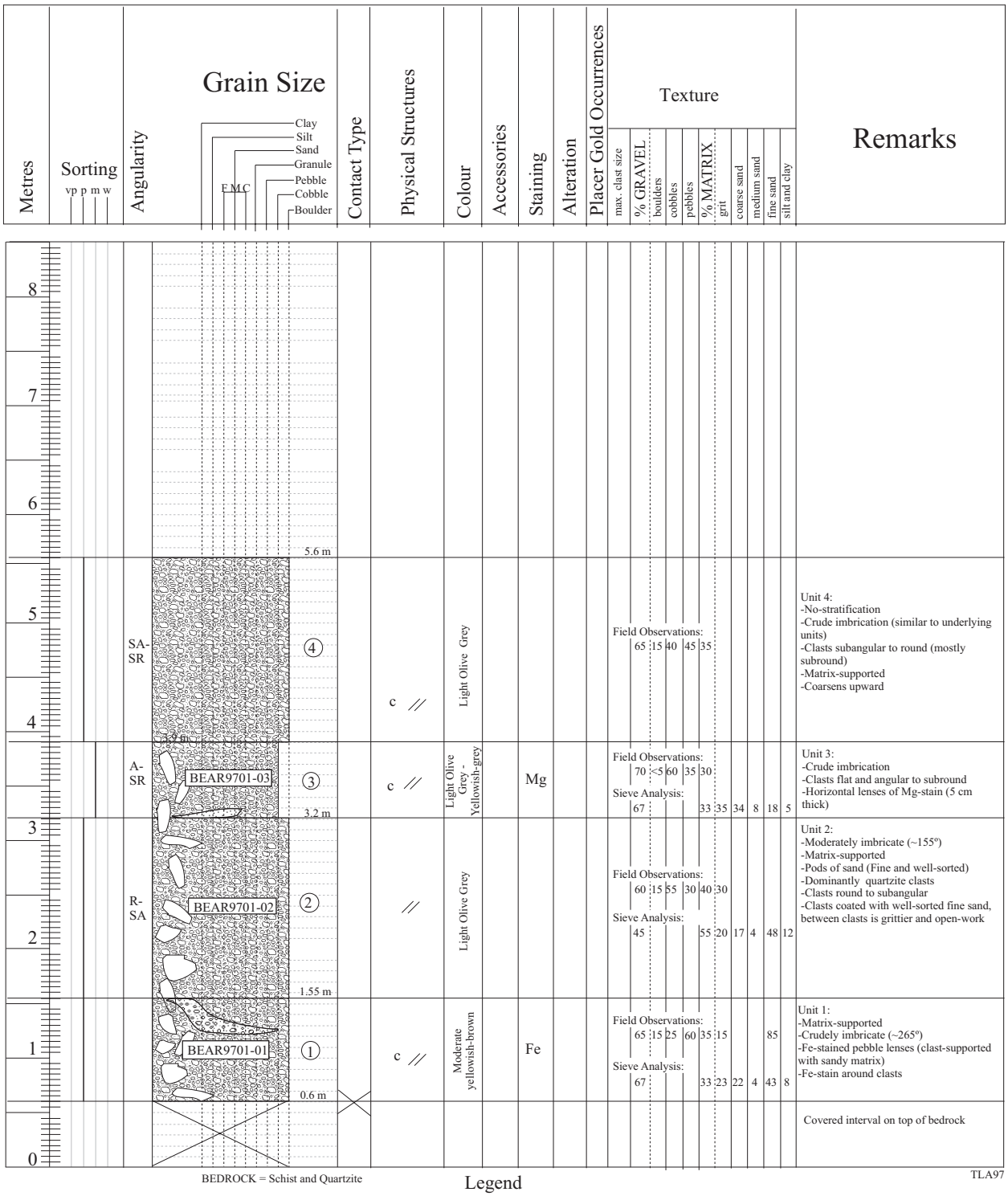
Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics
Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds
Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 07 / 08 / 97 Section number: BEAR9701 Measured by: TA, LM Creek or River: Bear Creek NTS: 115P/9

Latitude: 63º41'20" Longitude: 136º20'49" Elevation: 2400 ft UTM: E433390, N7062830

Orientation: 002º US ⟷ 182º DS Geomorphic landform:



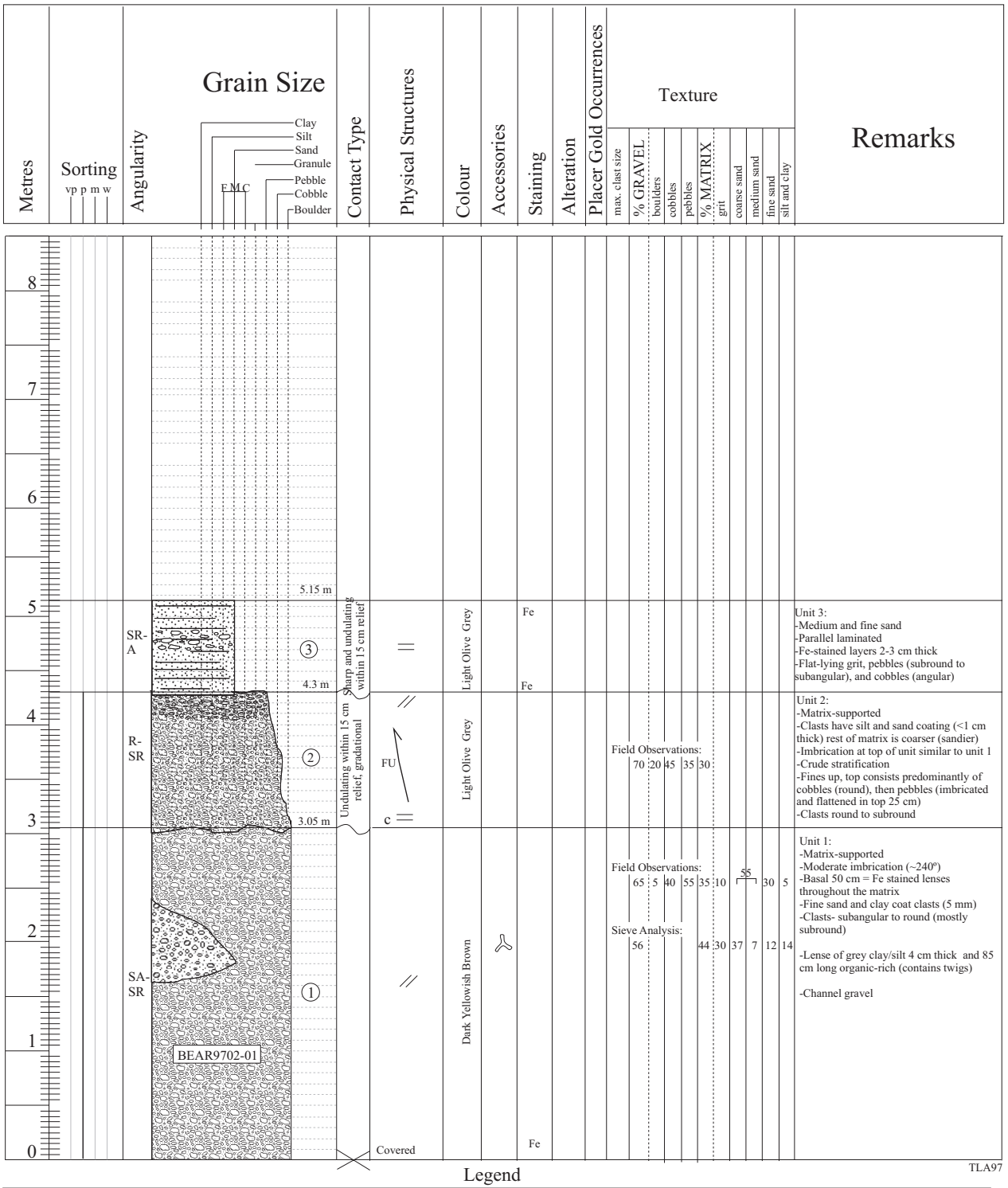
Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics

Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

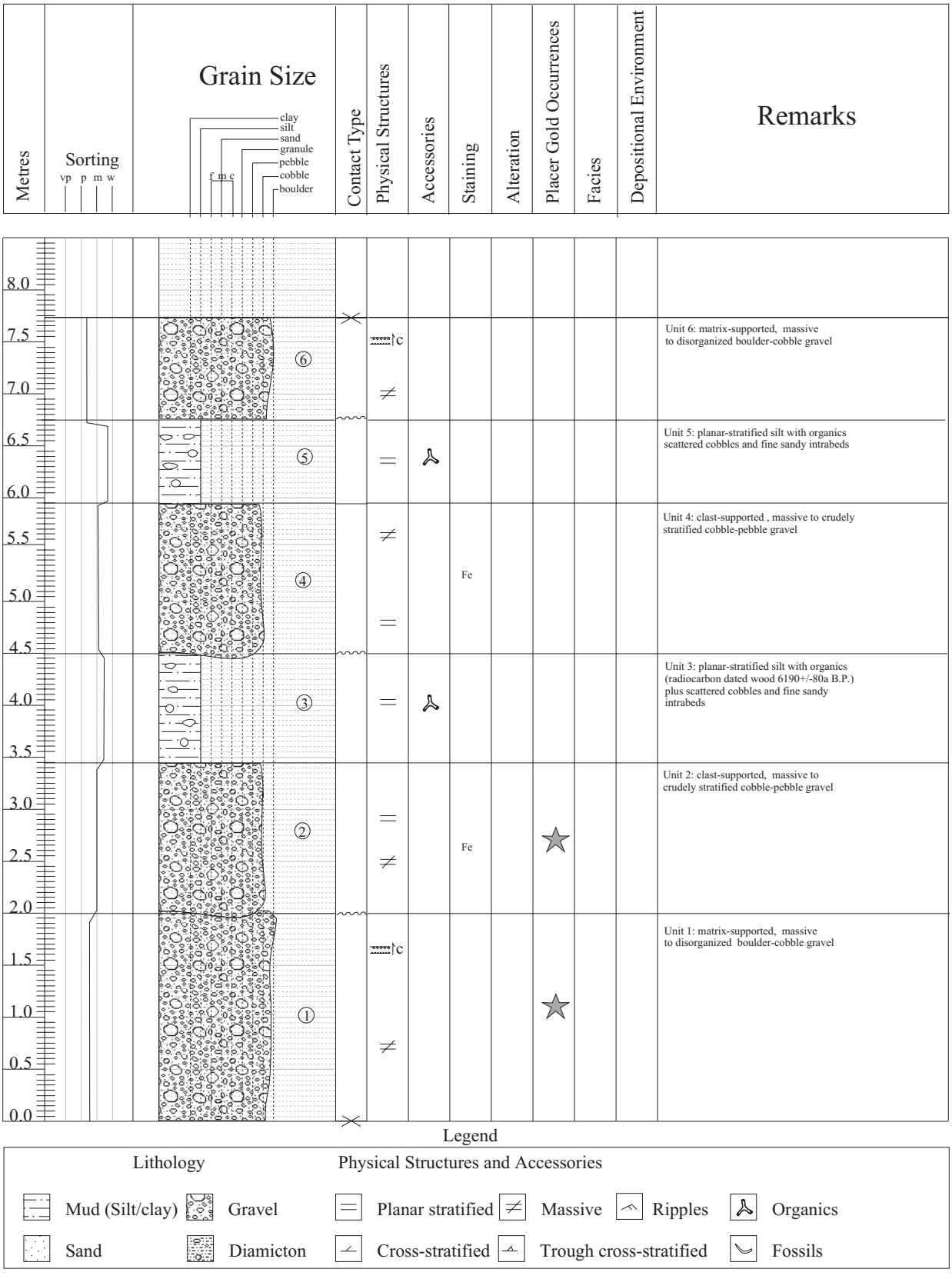
Date: 07/08/97 Section number: BEAR9702 Measured by: TA, LM Creek or River: Bear Creek NTS: 115P/9
Latitude: 63º40'54" Longitude: 136º21'07" Elevation: 2450 ft UTM: E433104, N7062098
Orientation: 090º US ⟷ 270º DS Geomorphic landform:



Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics
Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds
Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 30/08/95 Section Number: FE1-95 Measured by: WPL Creek or River: Highet Creek NTS: 115P16
Latitude: 63°45'55"N Longitude: 136 12'49"W Elevation: 3450 ft Geomorphic Landform: Valley-fill
Orientation: 77 <----------> 257 upstream



Legend

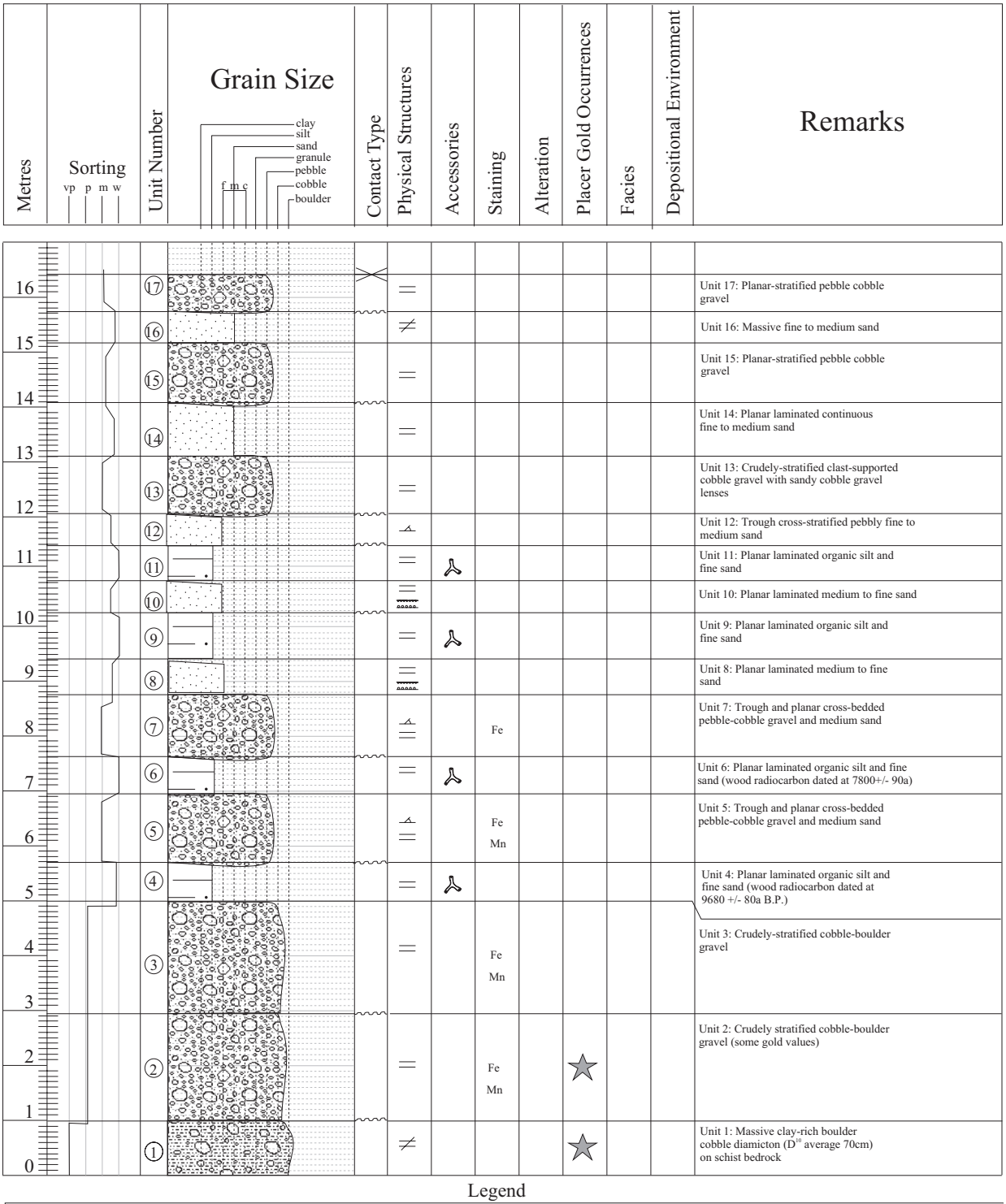
Lithology

Mud (Silt/clay) Gravel
Sand Diamicton

Physical Structures and Accessories

Planar stratified Massive Ripples Organics
Cross-stratified Trough cross-stratified Fossils

Date: 22/09/95 Section Number: MP1-95 Measured by: WPL Creek or River: Highet Creek NTS: 115P09
Latitude: 63°44'16"N Longitude: 136 °08'35"W UTM: 443570E, 7068299N Elevation: 2560 ft
Orientation: 80 <----------> 260 Right angles to stream Geomorphic Landform: Valley fill

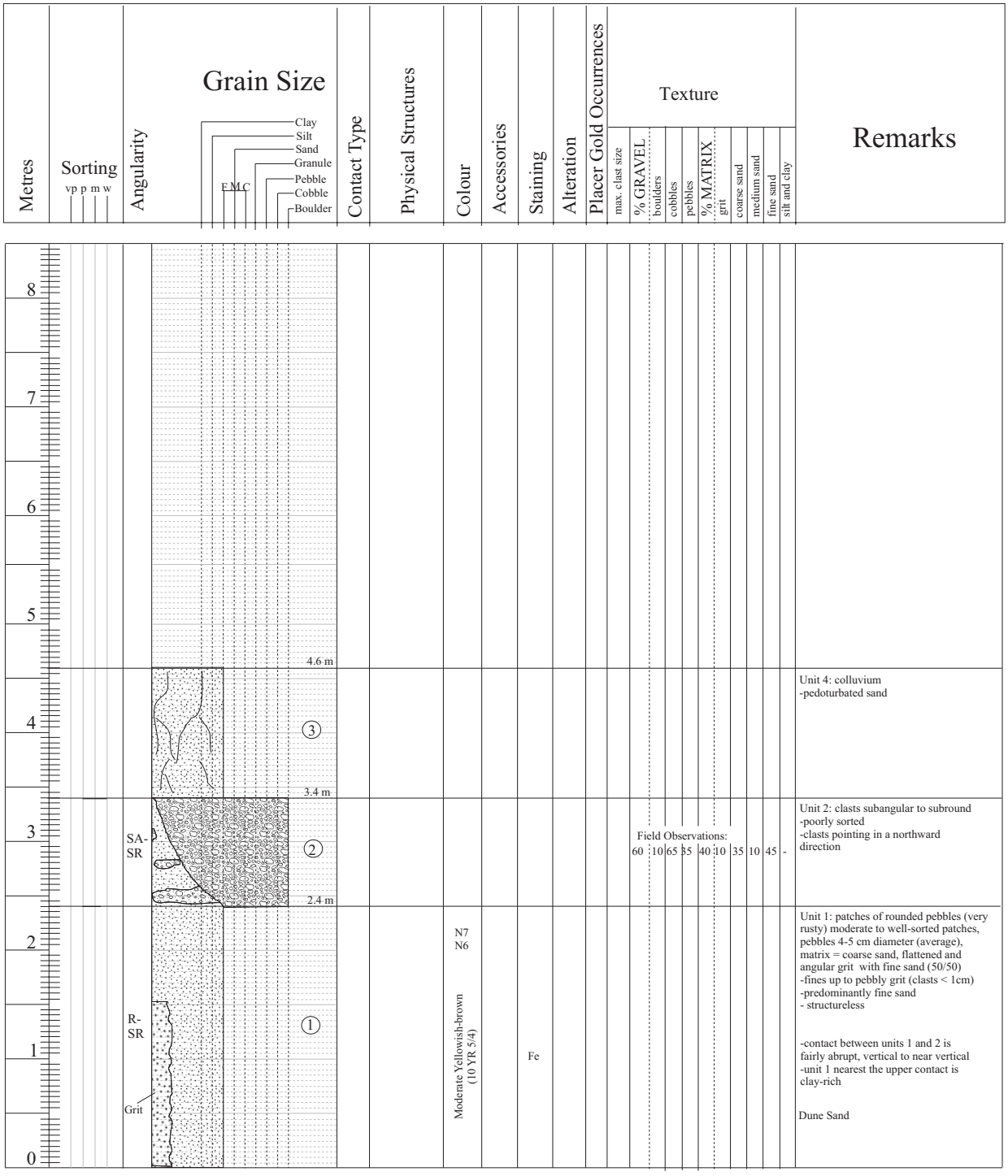


Legend

Lithology
Mud (Silt/clay)
Sand
Gravel
Diamicton

Physical Structures and Accessories
Planar stratified
Cross-stratified
Massive
Trough cross-stratified
Ripples
Organics
Fossils

Date: 09/06/97 Section number: HCR9701 Measured by: TA, DM Creek or River: Road to Highet Creek NTS: 105M/12
Latitude: 63º43'19.8" Longitude: 135º59'28.2" Elevation: 2070 ft UTM: 451039E, 7066242N
Orientation: 085º ⟷ 265º Geomorphic landform:



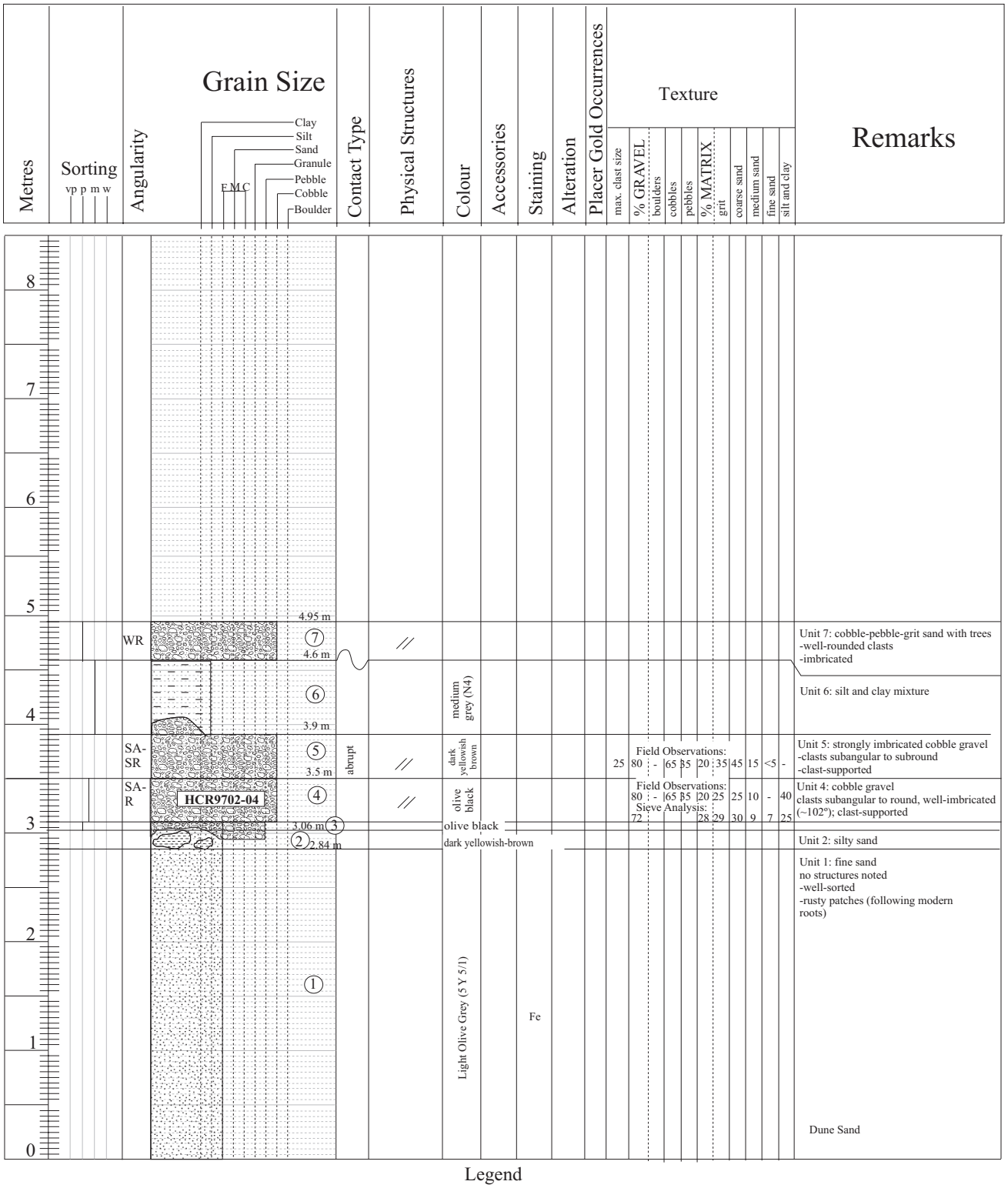
Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics
Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds
Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 09/06/97 Section number: HCR9702 Measured by: TA, DM Creek or River: Road to Highet Creek next to Roaring Fork Creek NTS: 115P/9

Latitude: _____ Longitude: _____ Elevation: 2100 ft UTM: _____

Orientation: 305° ⟷ 125° Geomorphic landform: _____

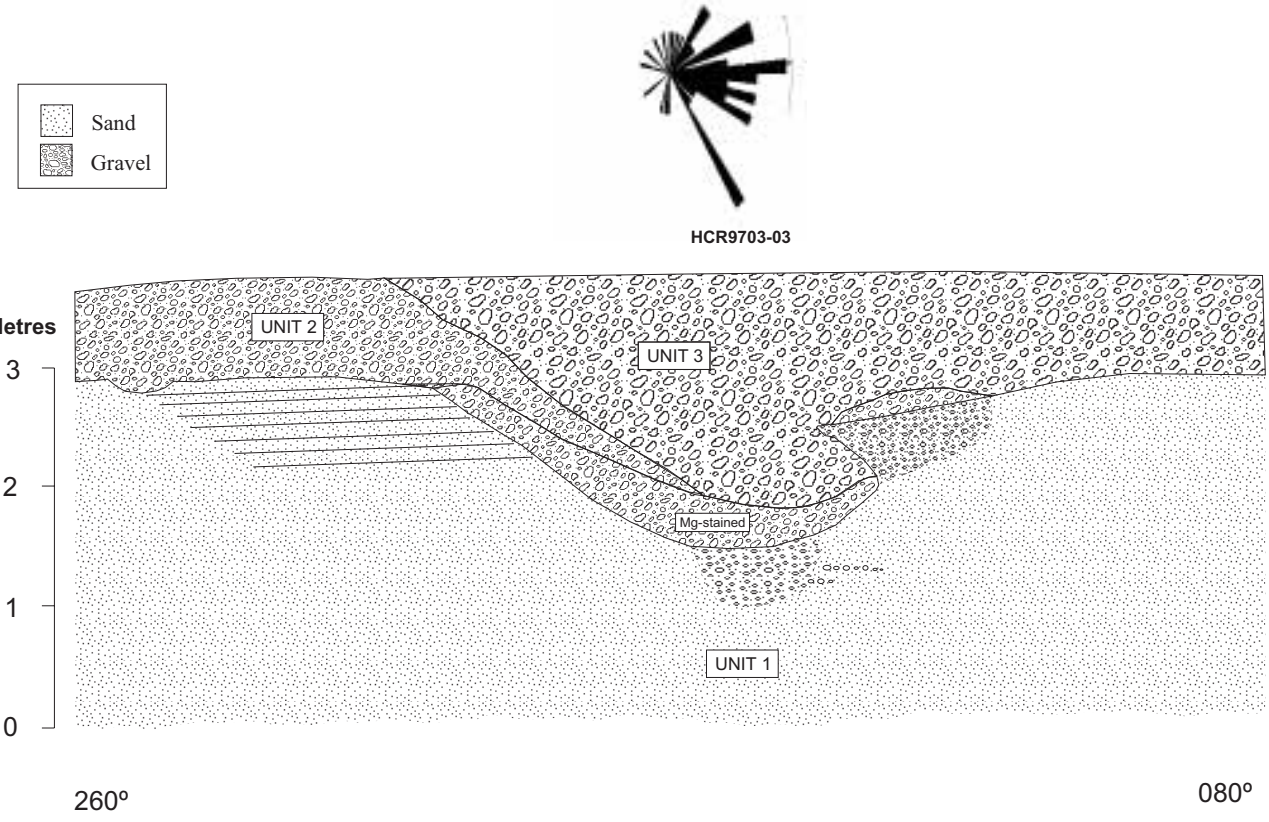


Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics

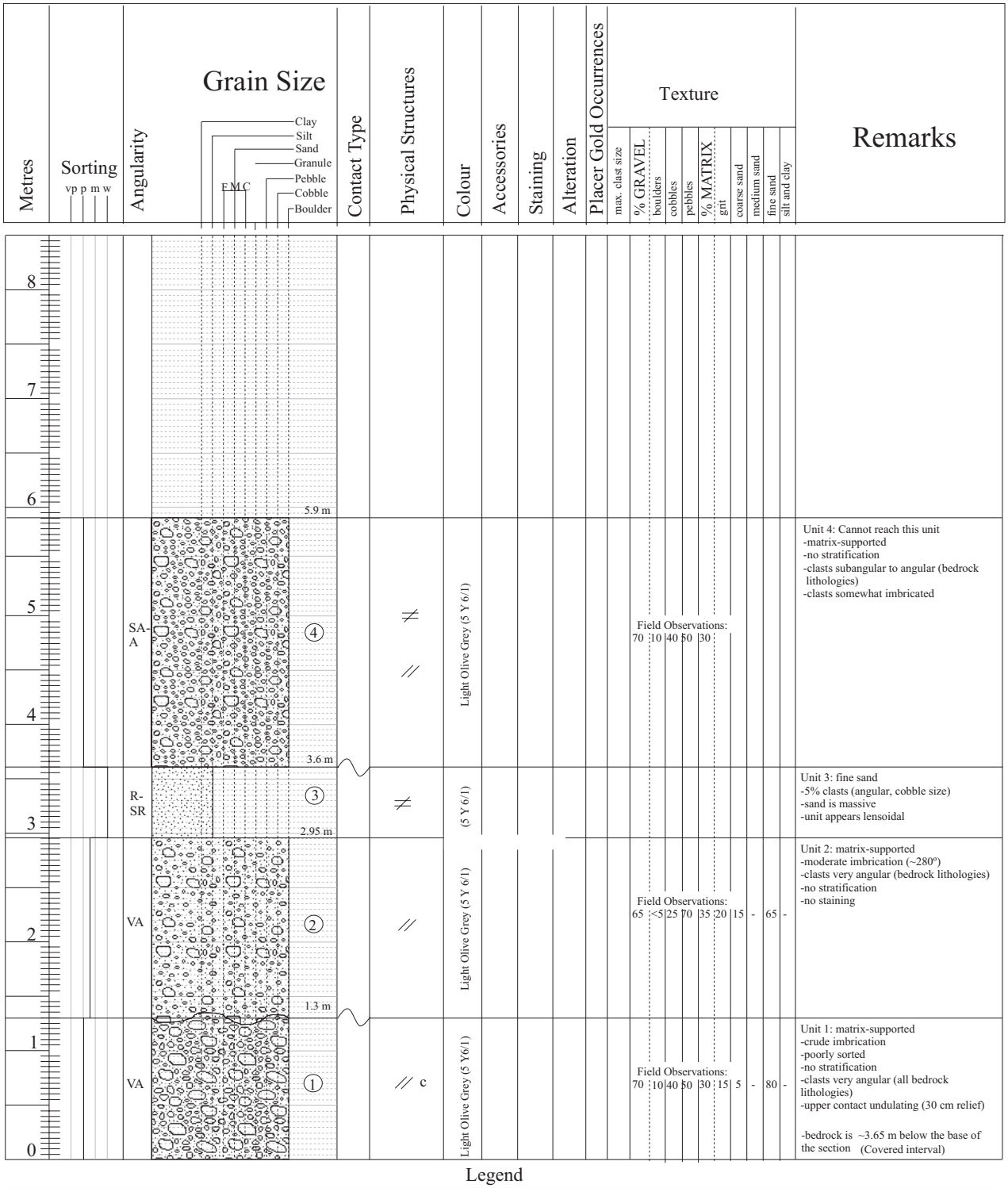
Sand Diamicton Cross-stratified Trough cross-stratified Fossils

Date: 09/07/97 Section number: HCR9703-03 Measured by: TA, DM Creek or River: Highet Creek Road NTS: 115P/9
Latitude: 63°43'26.7" Longitude: 136°03'2.3" Elevation: 2180 ft Utm: 448105E, 7066502N
Orientation: 260° ◁——▷ 080° Geomorphic landform:



HCR9703, Hight Creek Road

Date: 06/08/97 Section number: HCR9704 Measured by: TA, LM Creek or River: Highet Creek next to Rudolph Gulch NTS: 115P/16
Latitude: Longitude: Elevation: 3290 ft UTM: 441006E, 7071619N
Orientation: 292º us ⟷ 112º ds Geomorphic landform:



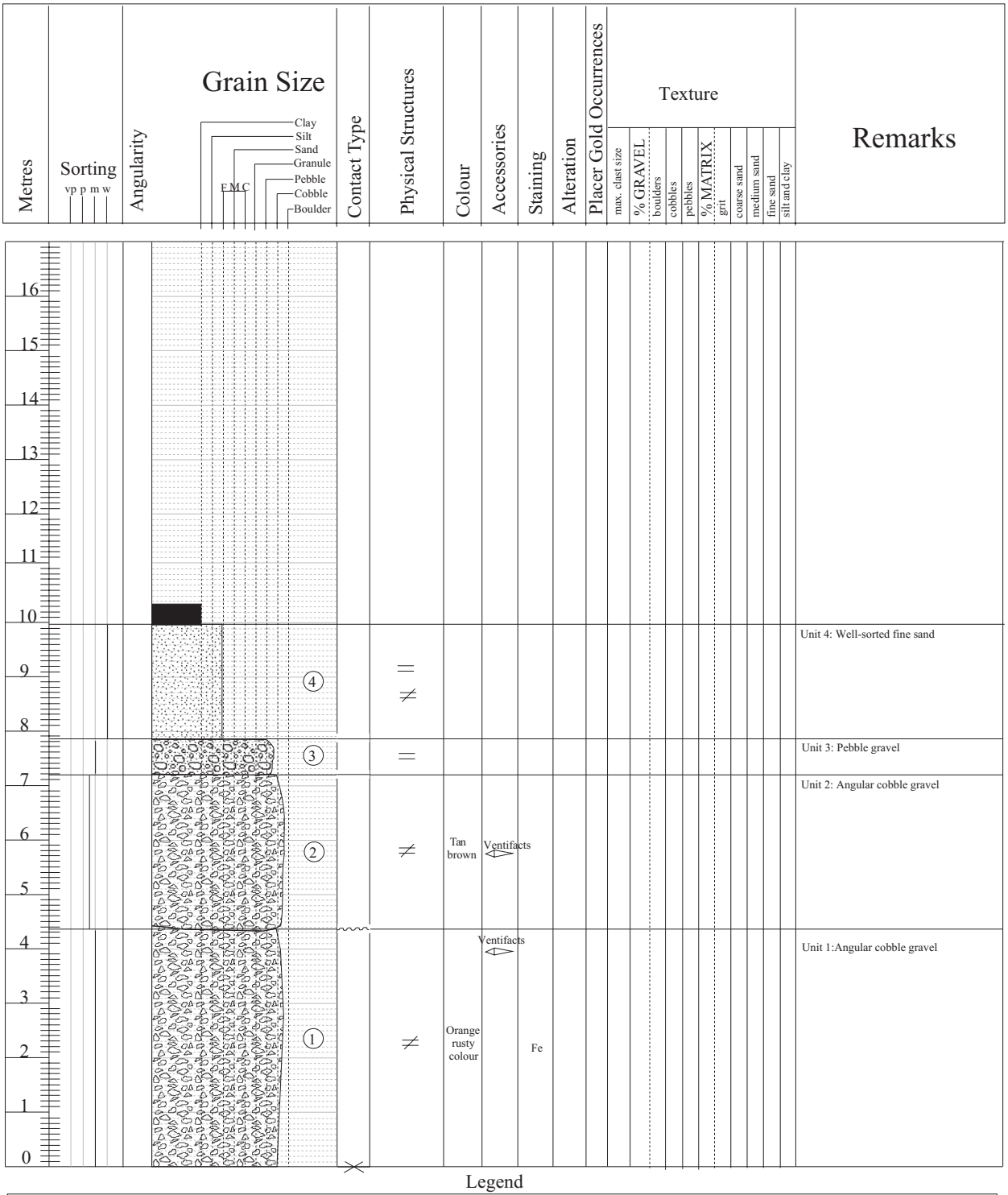
Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics
Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds
Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 30/08/95 Section number: HT1-95 Measured by: WPL Creek or River: Highet Creek NTS: 115P16

Latitude 63°45'51"N Longitude: 136° 10'43"W Elevation: 2980 UTM:

Orientation: 300 ⟷ 120 (Downstream) Geomorphic landform: Alluvial fan



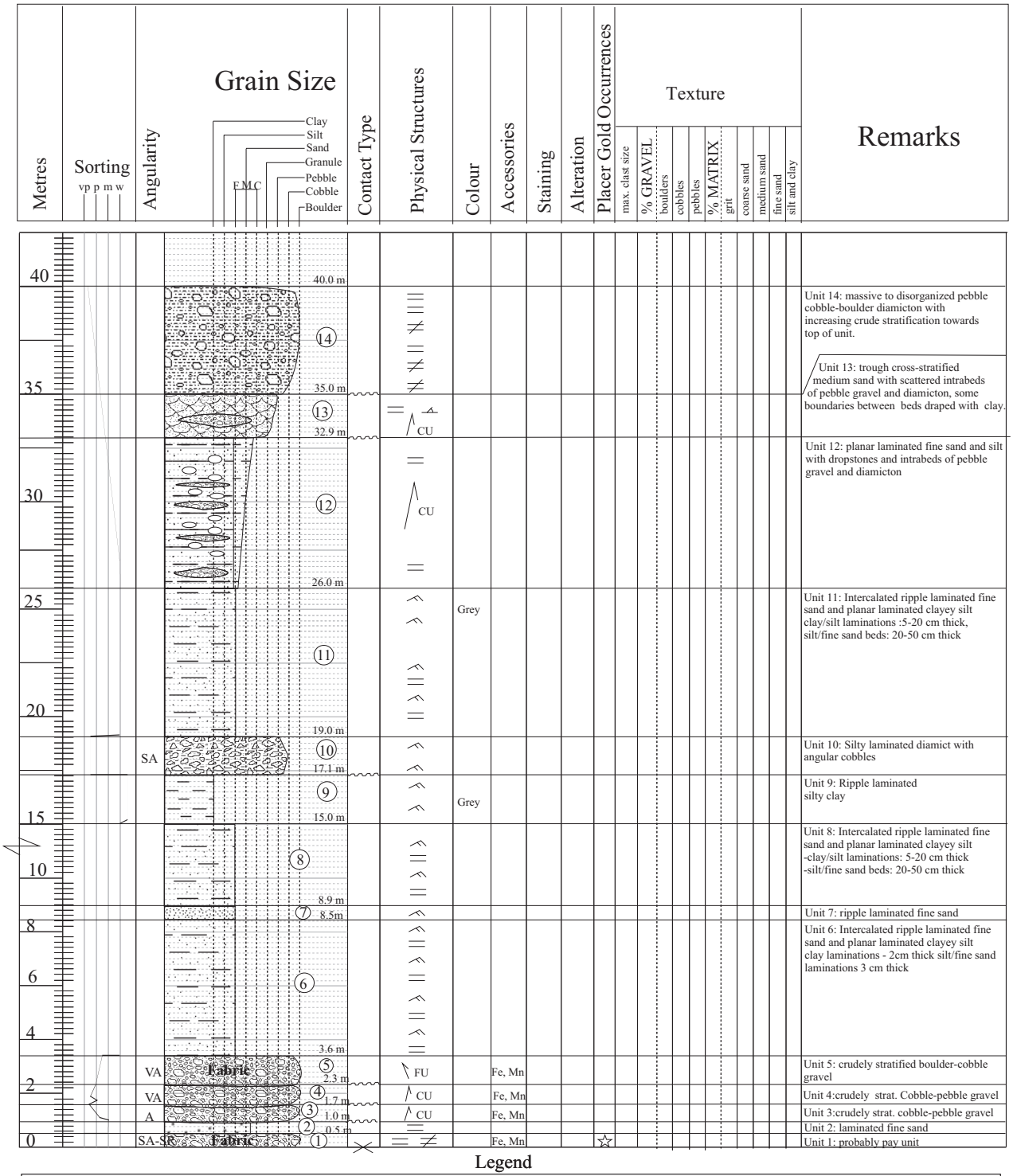
Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics

Sand Diamicton Cross-stratified Trough cross-stratified Fossils

Modifiers: c = crude d = discontinuous

Date: 16/09/95 Section number: HT2/3-95 Measured by: WPL Creek or River: Highet Creek NTS: 115P16
Latitude: 63°43'56"N Longitude: 136°07'49"W Elevation: 2500 ft. UTM: 04444187E, 7067472N
Orientation: 90 ⟷ 270 upstream Geomorphic landform: Glaciofluvial Terrace



Legend

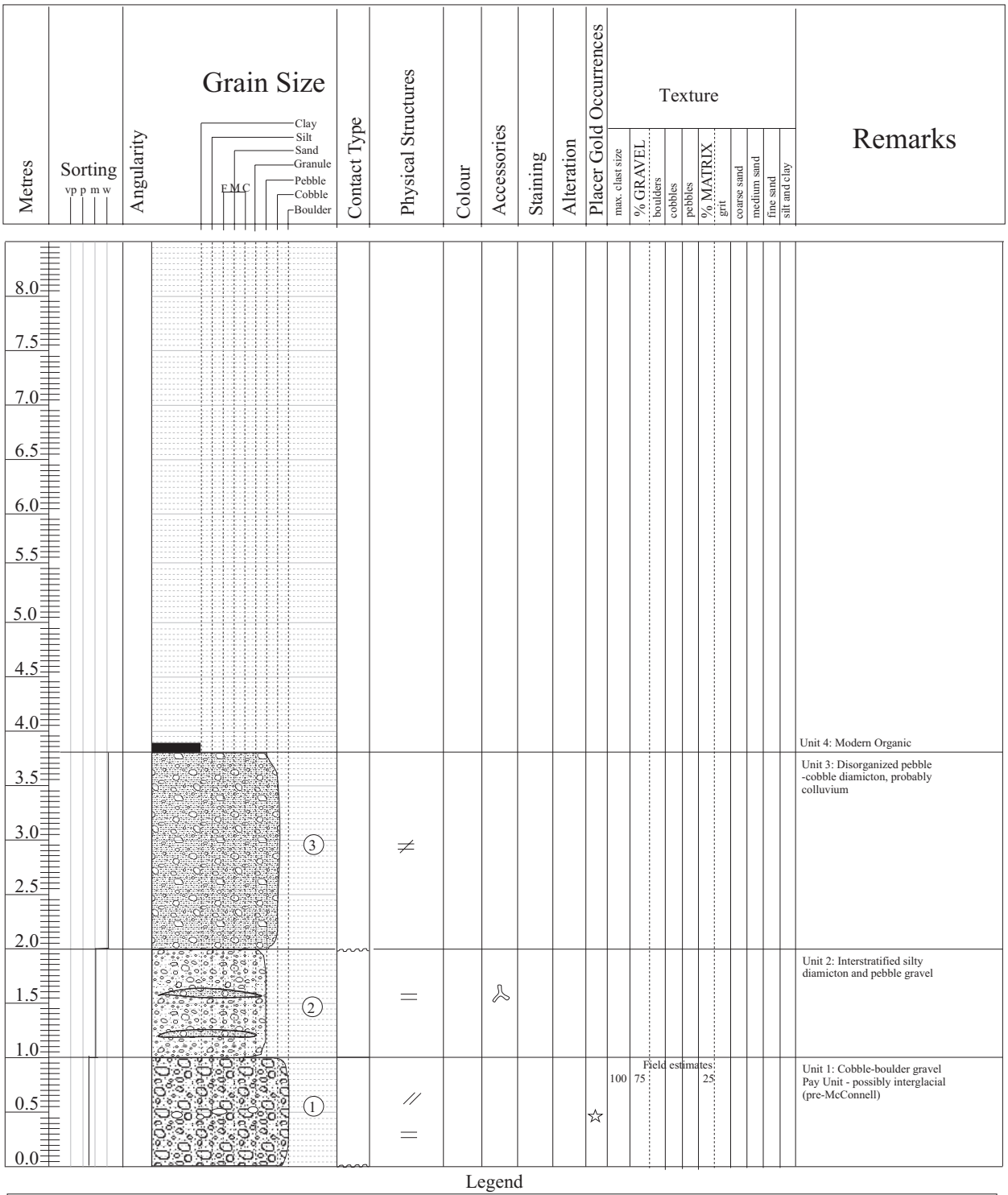
Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics
Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds

Modifiers: c = crude d = discontinuous f = fine cv = convoluted cryo = cryogenic features

Date: 29/08/95 Section number: KK1-95 Measured by: WPL Creek or River: Highet Creek NTS: 115P16

Latitude: 63° 45'55"N Longitude: 136° 11'31"W Elevation: 3125 ft UTM: 0435987E,7128833N

Orientation: 290 ⟷ 110 (Downstream) Geomorphic landform: Alluvial Terrace



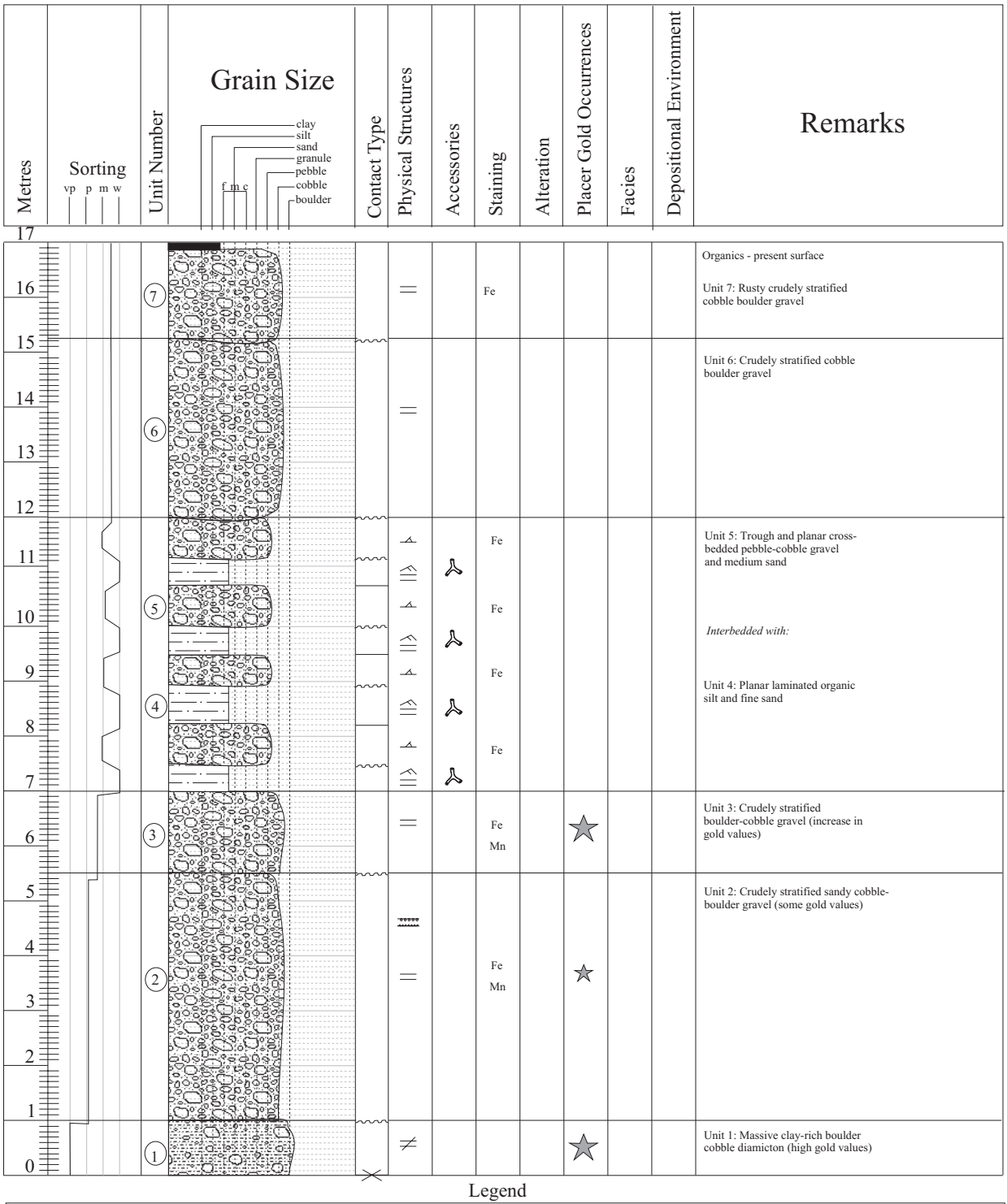
Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics

Sand Diamicton Cross-stratified Trough cross-stratified Fossils

Modifiers: c = crude d = discontinuous

Date: 23/07/96 Section Number: WL9602 Measured by: LM/WL Creek or River: Highet Creek NTS: 115P09
Latitude: 63°44'24"N Longitude: 136° 08'30"W Elevation: 2565 Geomorphic Landform: Valley fill
Orientation: 344 <----------> 164 downstream



Legend

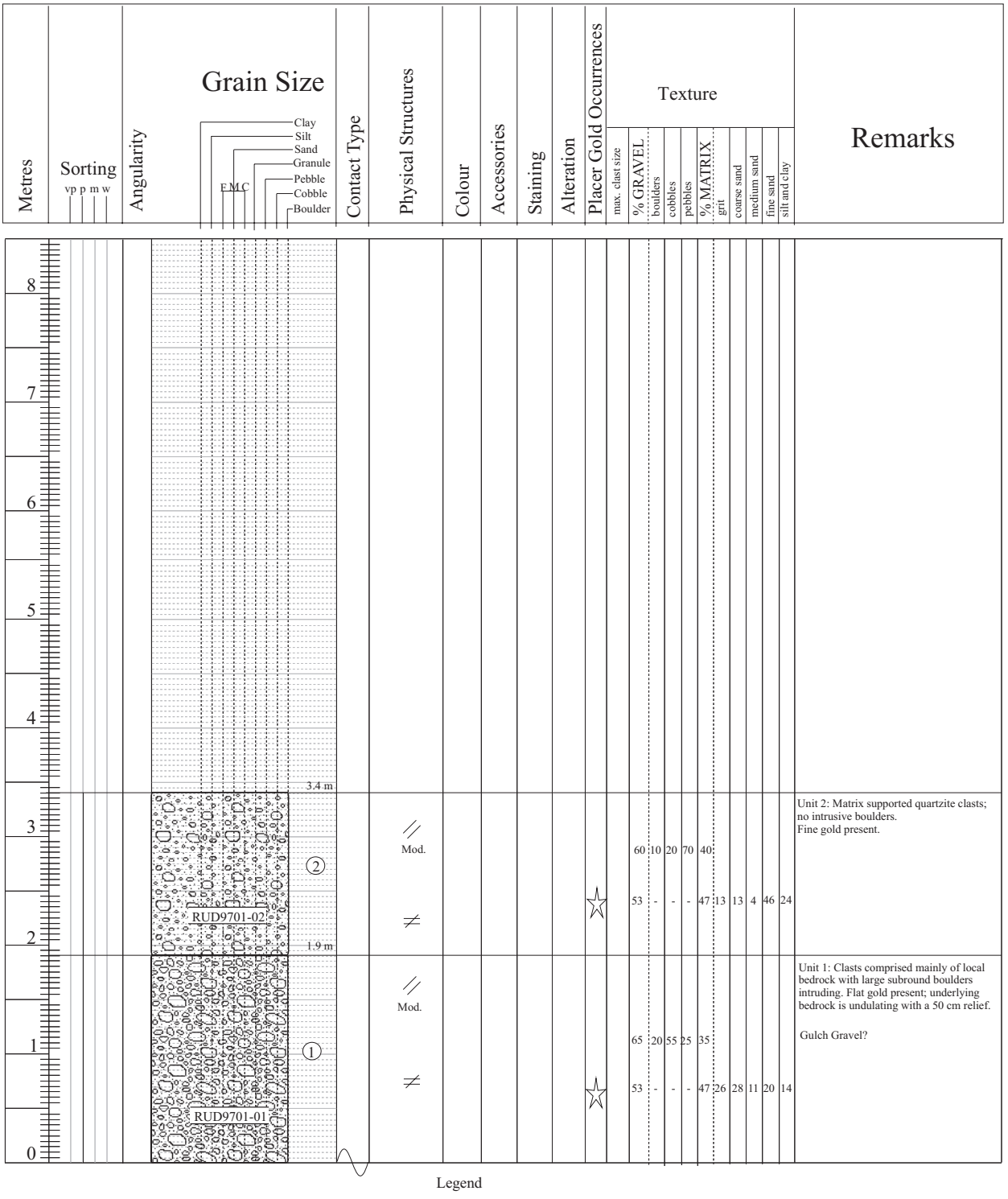
Lithology

Mud (Silt/clay) Gravel
Sand Diamicton

Physical Structures and Accessories

Planar stratified Massive Ripples Organics
Cross-stratified Trough cross-stratified Fossils

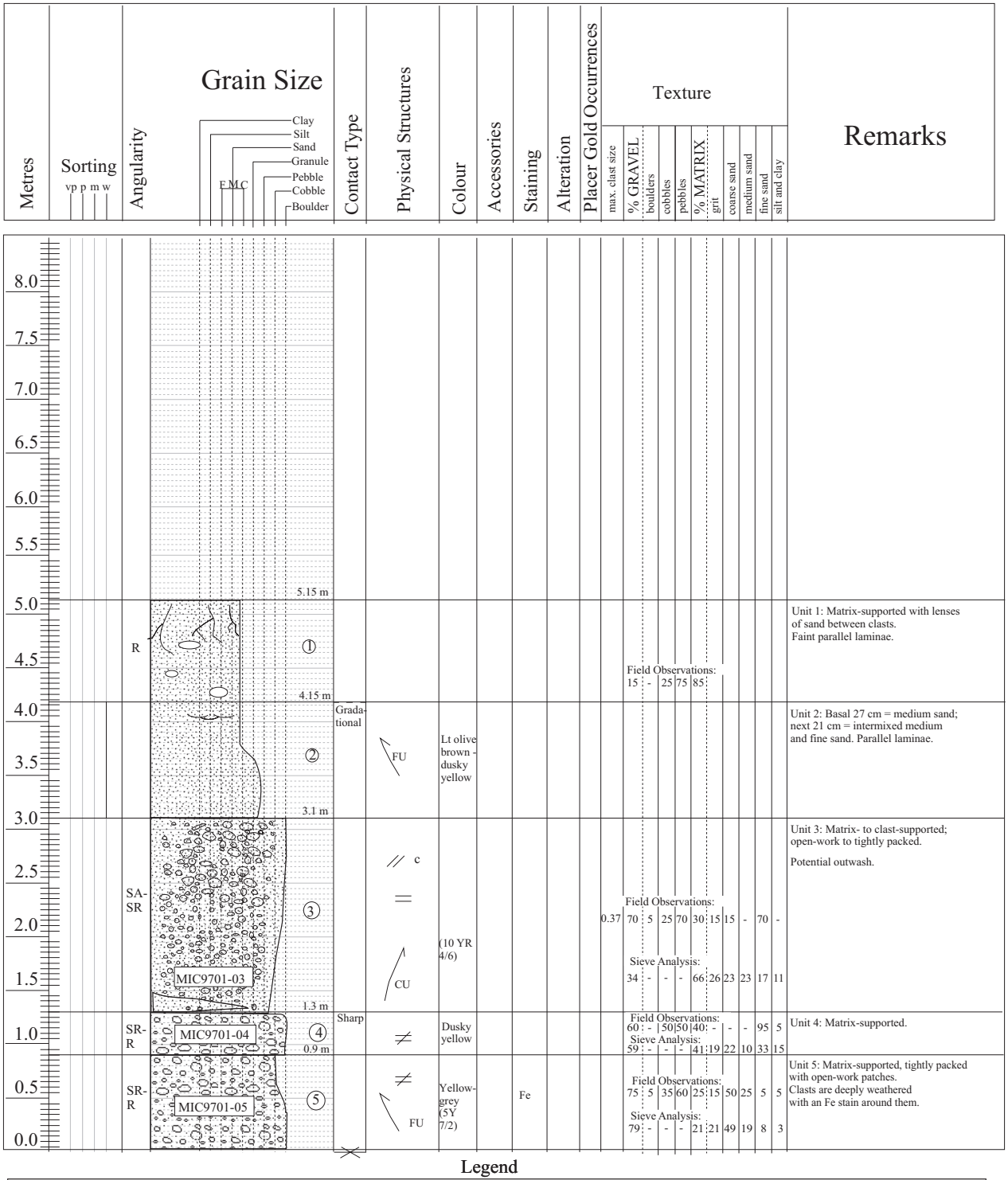
Date: 06/08/97 Section number: RUD9701 Measured by: TA, LM Creek or River: Rudolph Gulch NTS: 115P/16
Latitude: Longitude: Elevation: 3350 ft UTM: 440984E, 7071664N
Orientation: 225° us ⟷ 045° ds Geomorphic landform: Gulch gravels



Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics
Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds
Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

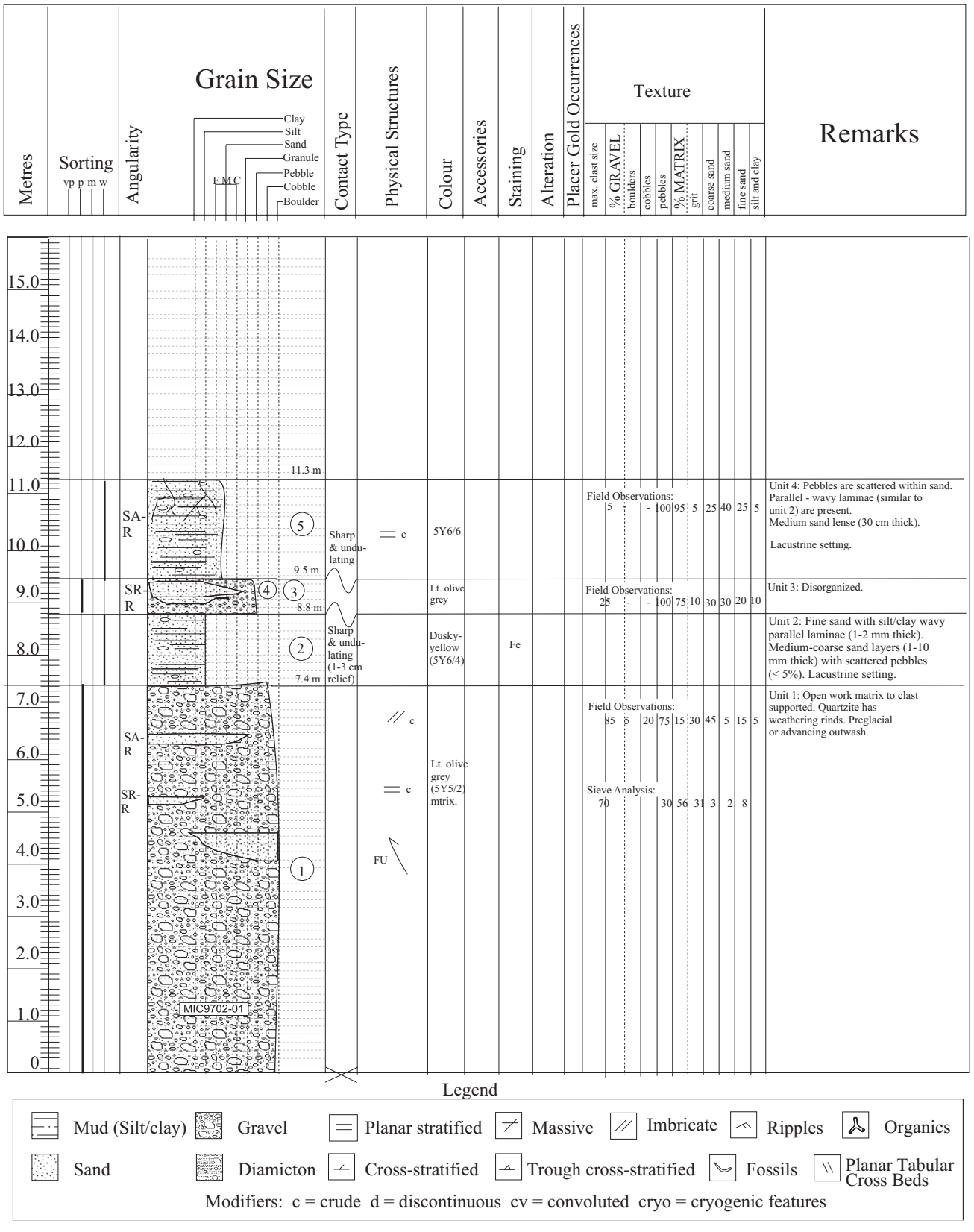
Date: 10/07/97 Section number: MIC9701 Measured by: TA, DM Creek or River: McIntyre Creek NTS: 115P/9
Latitude: Longitude: UTM: N7065999, E0444269 Elevation: 2500 ft (762 m)
Orientation: 100º ⟷ 280º Geomorphic landform:



Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics
Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds
Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

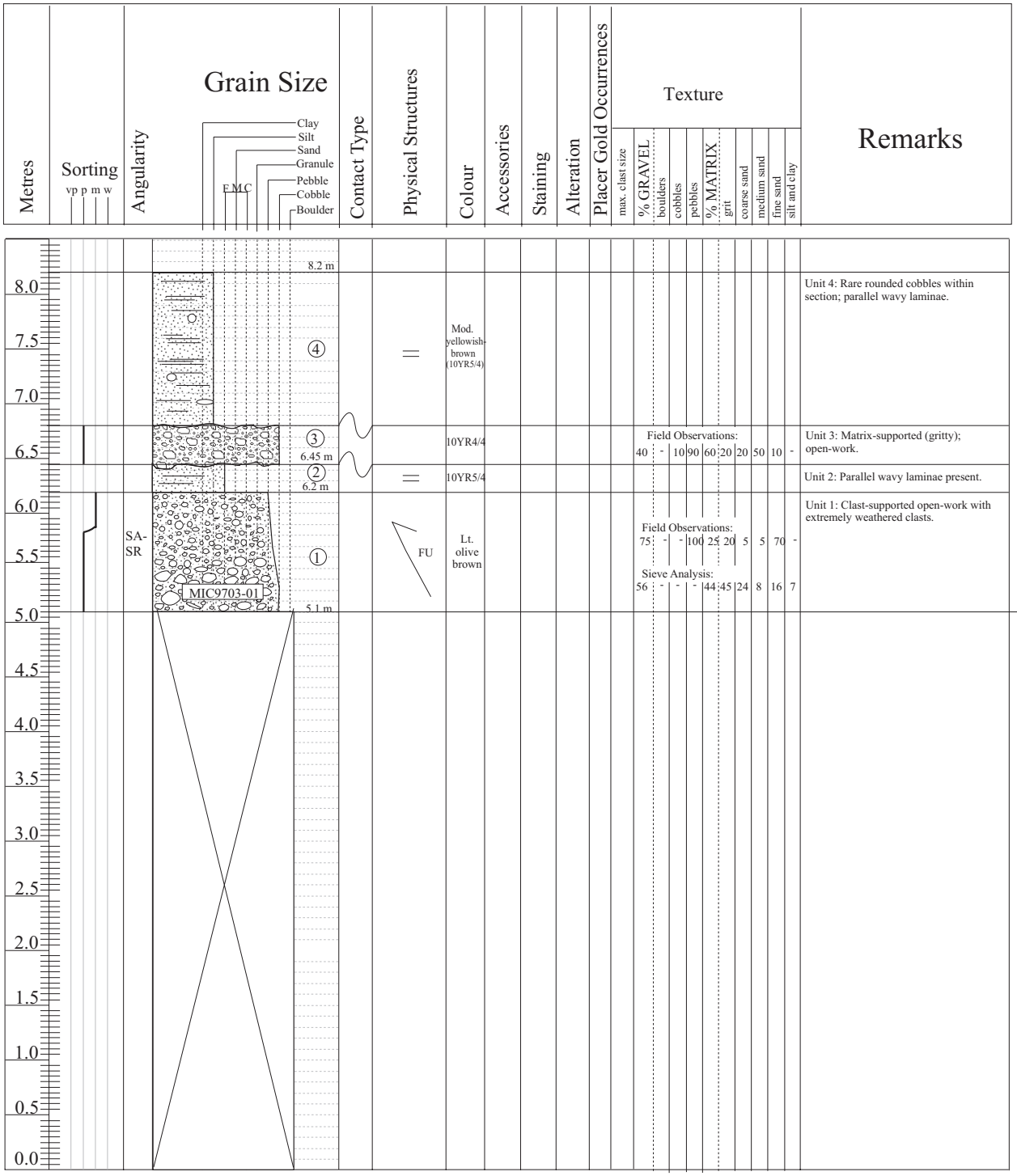
Date: 10/07/97 Section number: MIC9702 Measured by: TA, DM Creek or River: McIntyre Creek NTS: 115 P/9
Latitude: _____ Longitude: _____ Elevation: 2450 ft UTM: N7066056, E0444634
Orientation: 90° ⟷ 270° Geomorphic landform: Glacial-fluvial terrace



Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics
Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds
Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

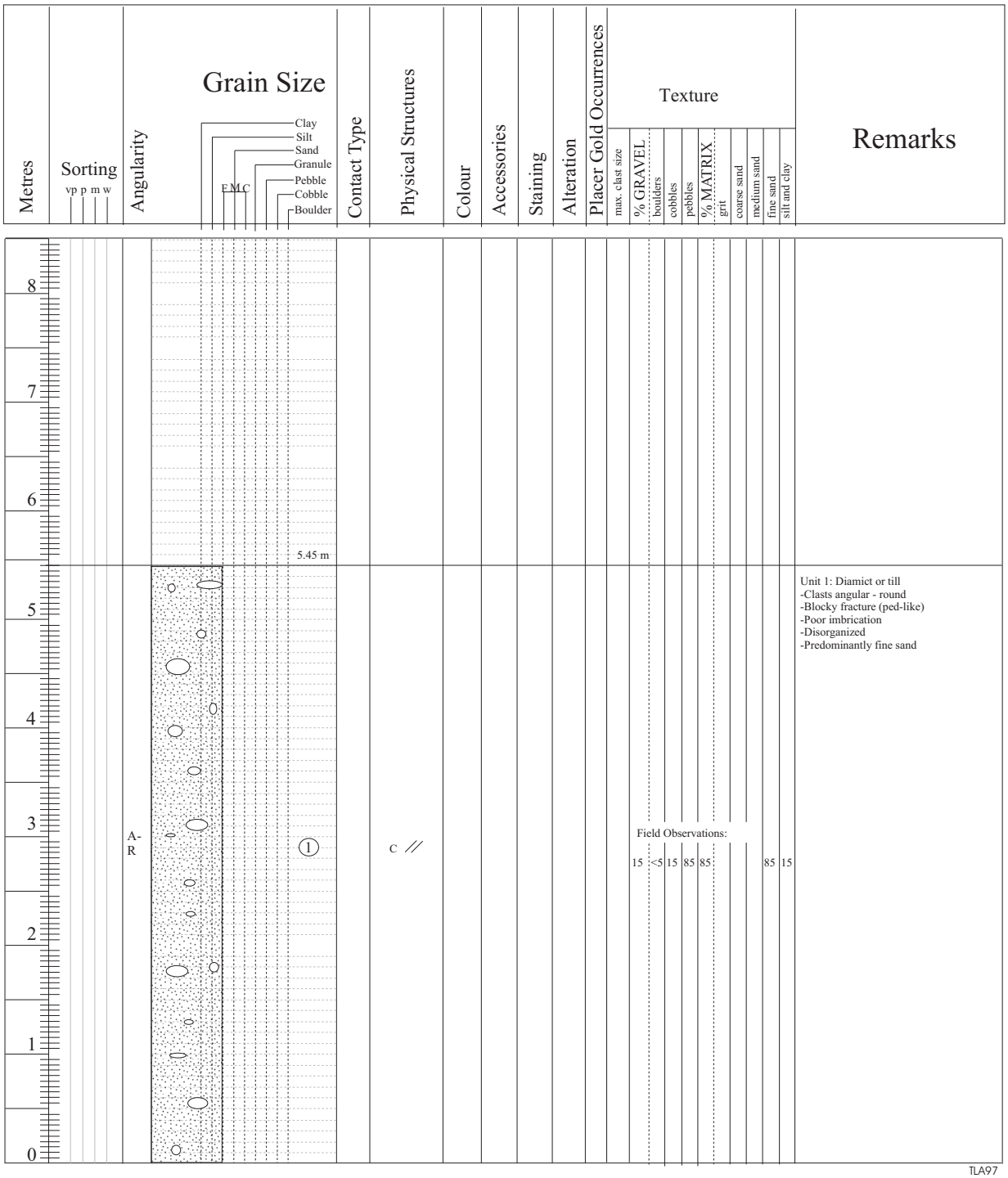
Date: 11/07/97 Section number: MIC9703 Measured by: TA, DM Creek or River: McIntyre Creek NTS: 115 P/9
Latitude: Longitude: Elevation: 790? m UTM: N7066082, E0444522
Orientation: 305 ⟷ 125 Geomorphic landform: Glacial-fluvial terrace



Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics
Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds
Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

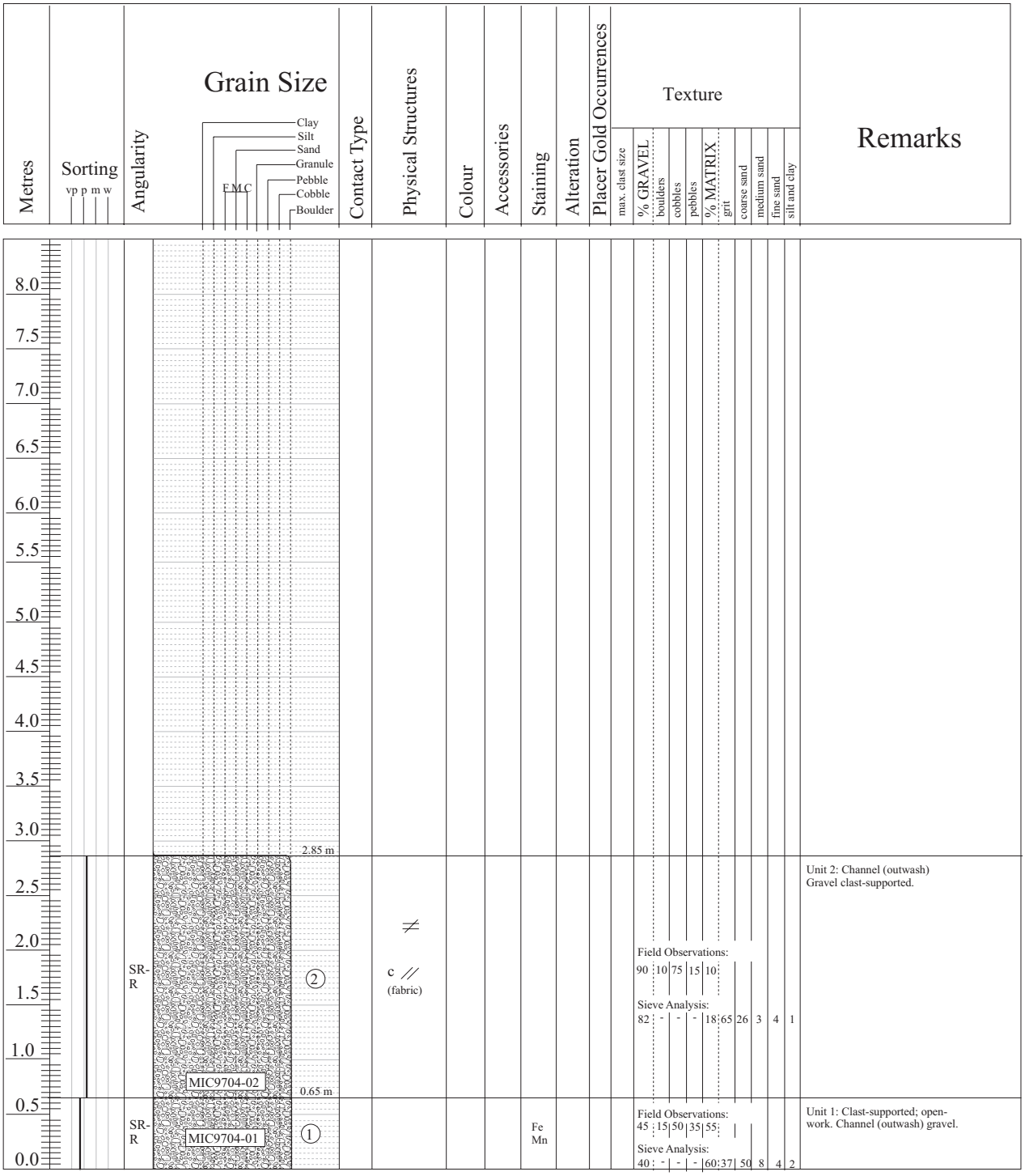
Date: 11/07/ 97 Section number: MIC9703b Measured by: TA, DM Creek or River: McIntyre Creek NTS: 115 P/9
Latitude: 63º43.18' Longitude: 136º07.41' Elevation: 790? m UTM: N7066064, E0444530
Orientation: 280 ⟷ 100 Geomorphic landform: Glacial-fluvial terrace



Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics
Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds
Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 11/07/97 Section number: MIC9704 Measured by: TA, DM Creek or River: Minto Creek NTS: 115 P/9
Latitude: 63º42'55.7 Longitude: 136º06'55.5 UTM: E0444889, N7065593 Elevation: 3000 ft
Orientation: _____ ⟷ _____ Geomorphic landform: McConnell outwash



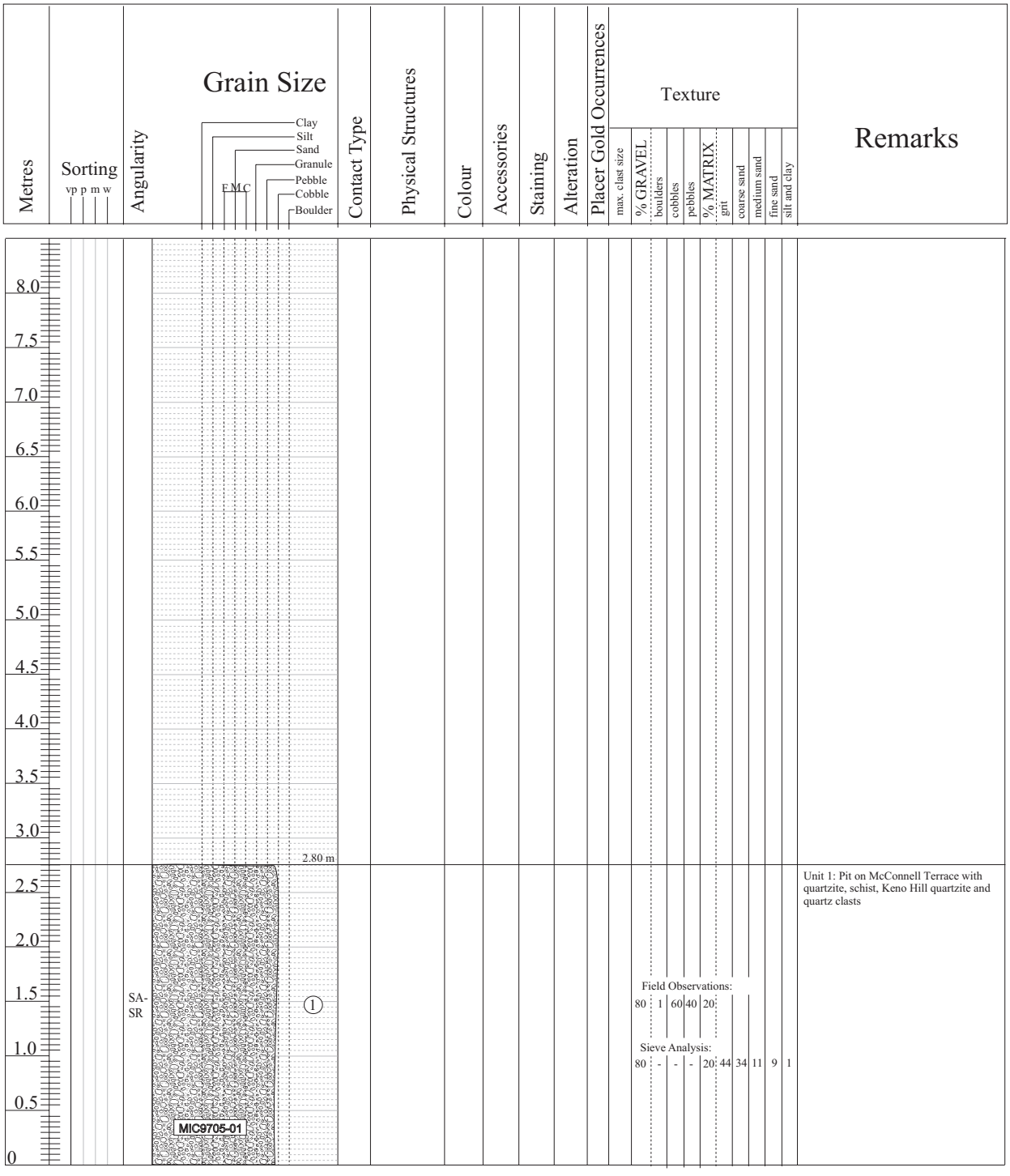
Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics
Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds
Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 11/06/97 Section number: MIC9705 Measured by: TA, DM Creek or River: Minto Creek NTS: 115P/9

Latitude: 63º42'55.7" Longitude: 136º06'55.5" Elevation: 2300 ft UTM: 444889E, 7065593N

Orientation: _____ ⟷ _____ Geomorphic landform: McConnell Outwash Terrace



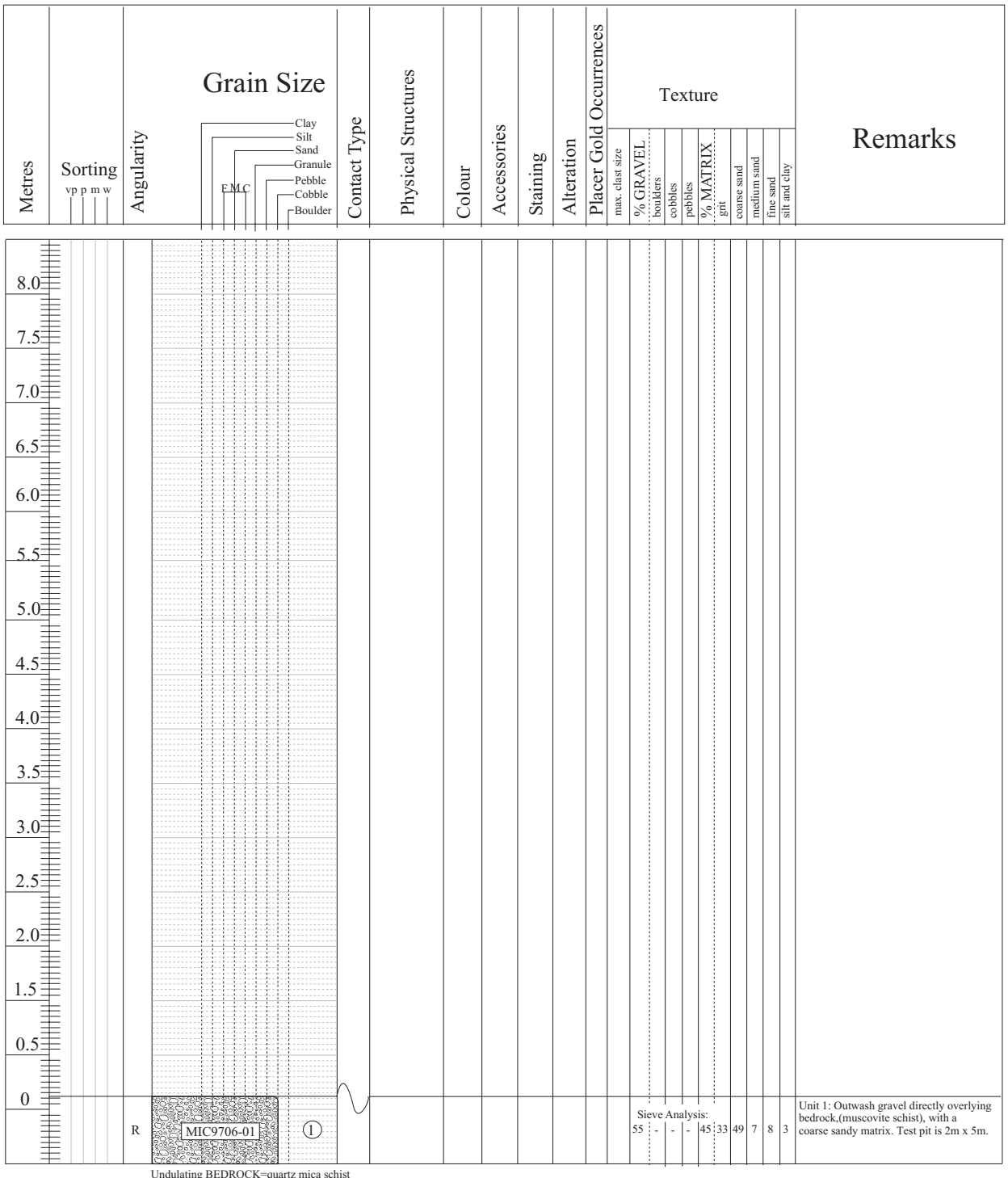
Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics

Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 11/06/97 Section number: MIC9706 Measured by: TA, DM Creek or River: Minto Creek NTS: 115P/9
Latitude: 63º42'55.7" Longitude: 136º06'55.5" Elevation: 2300 ft UTM: 444889E, 7065593N
Orientation: _____ ⟷ _____ Geomorphic landform: McConnell Outwash Terrace



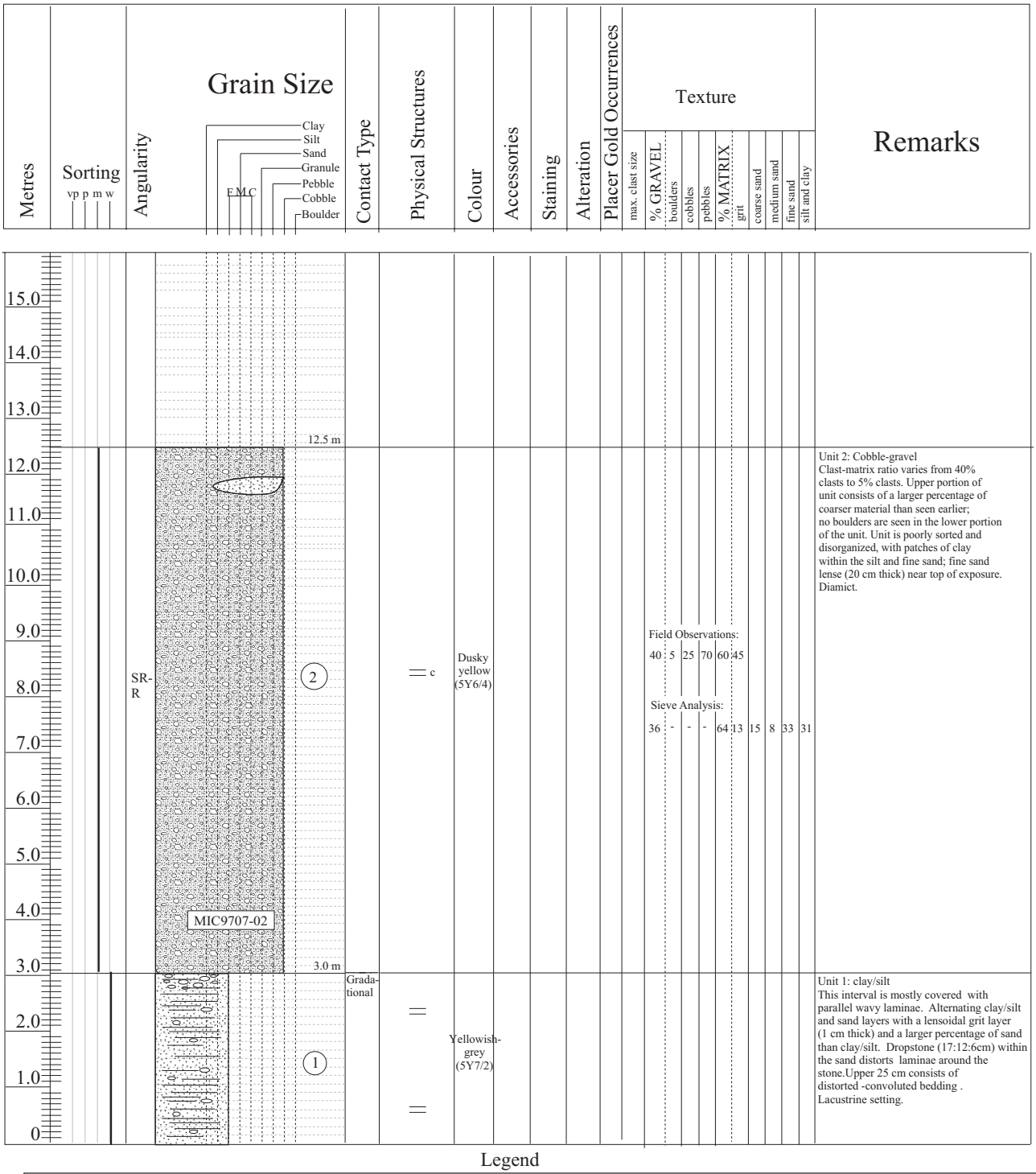
Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics
Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds
Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 14/07/97 Section number: MIC9707 Measured by: TA, MS Creek or River: McIntyre Creek NTS: 115 P/9

Latitude: 63º43'14.0" Longitude: 136º07'14.7 Elevation: 746 m UTM: N7066082, E0444558

Orientation: 305 ⟷ 125 Geomorphic landform: Glacial-fluvial terrace



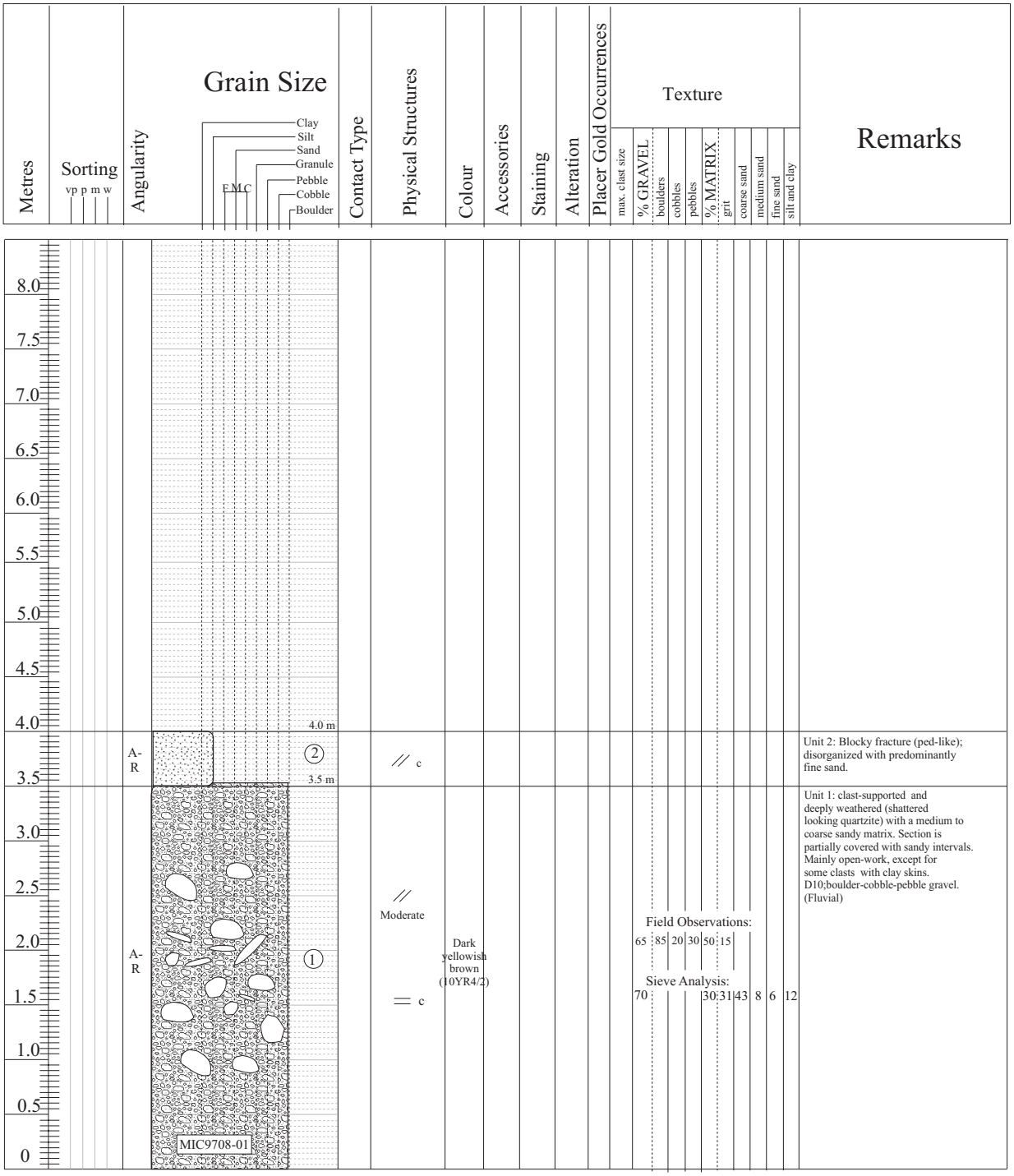
Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics

Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 14/07/97 Section number: MIC9708 Measured by: TA, MS Creek or River: Minto Creek NTS: 115 P/9
Latitude: 63º42'18.5" Longitude: 136º07'57.9" Elevation: 2350 ft UTM: N7064460, E0444012
Orientation: 221º ⟷ 041º Geomorphic landform: Glacial-fluvial terrace



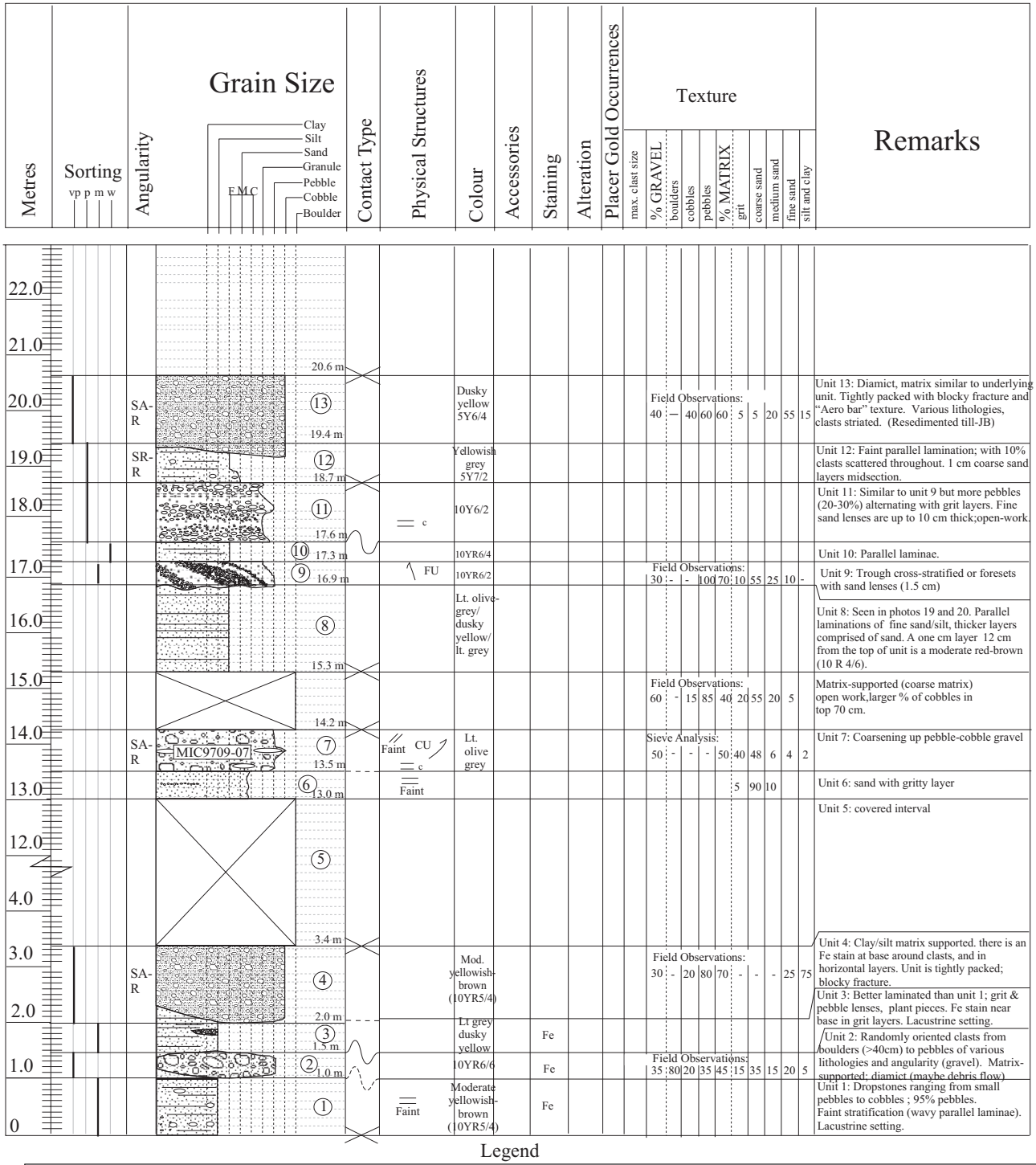
Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics
Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds
Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 15/07/97 Section number: MIC9709 Measured by: TA, MS Creek or River: McIntyre Creek NTS: 115 P/9

Latitude: 63º42'13.0" Longitude: 136º08'2.3" Elevation: 749 m UTM: E0443948, N7064291

Orientation: 025 ⟷ 205 Geomorphic landform: Glacial-fluvial terrace



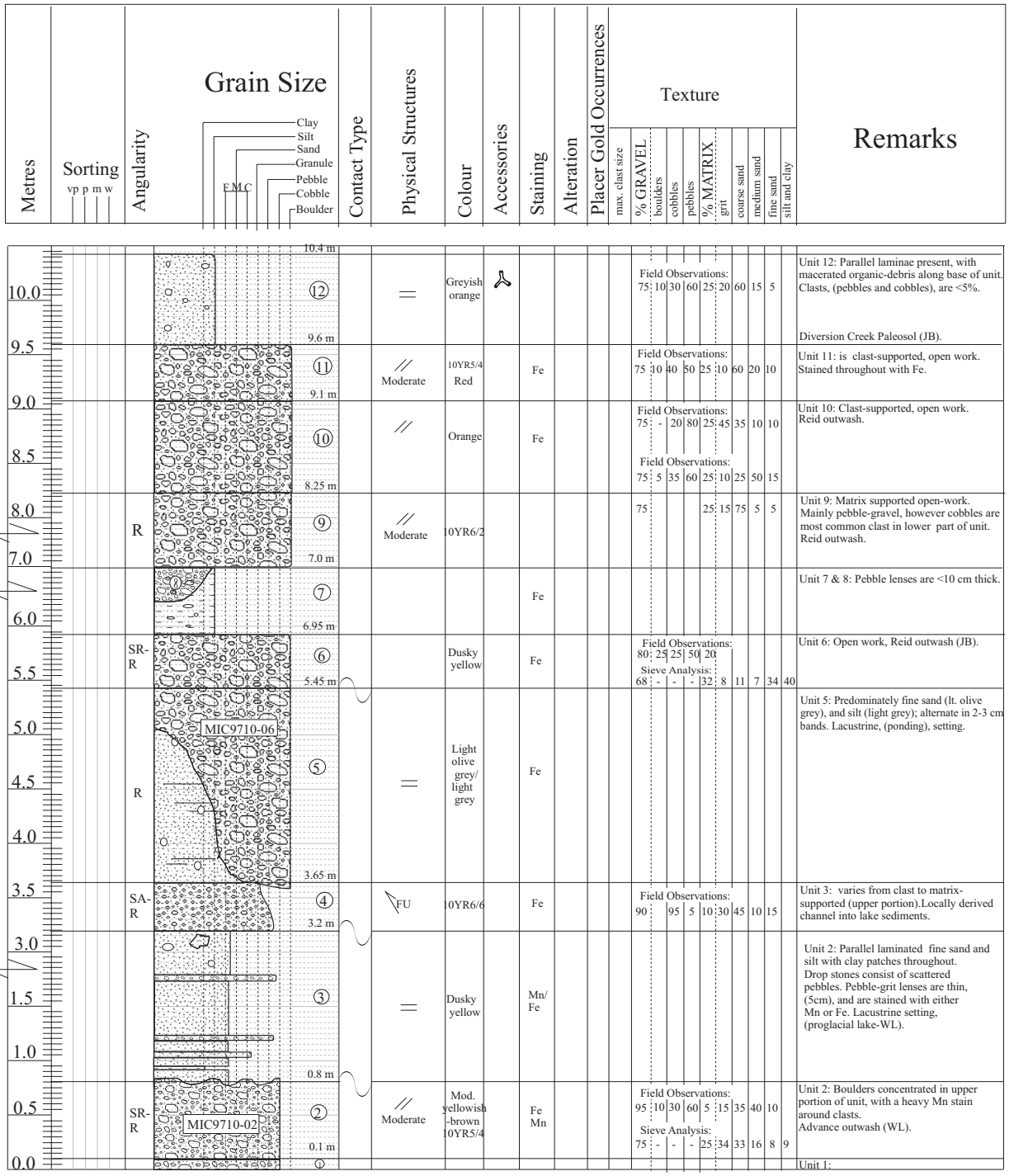
Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics

Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 16/07/97 Section number: MIC9710 Measured by: TA, MS Creek or River: Minto Creek NTS: 115P/9
Latitude: 63º42.02 Longitude: 136º07.86 Elevation: 2003 ft (610 m) UTM: N7063913, E0444077
Orientation: 190º ⟷ 010º Geomorphic landform:



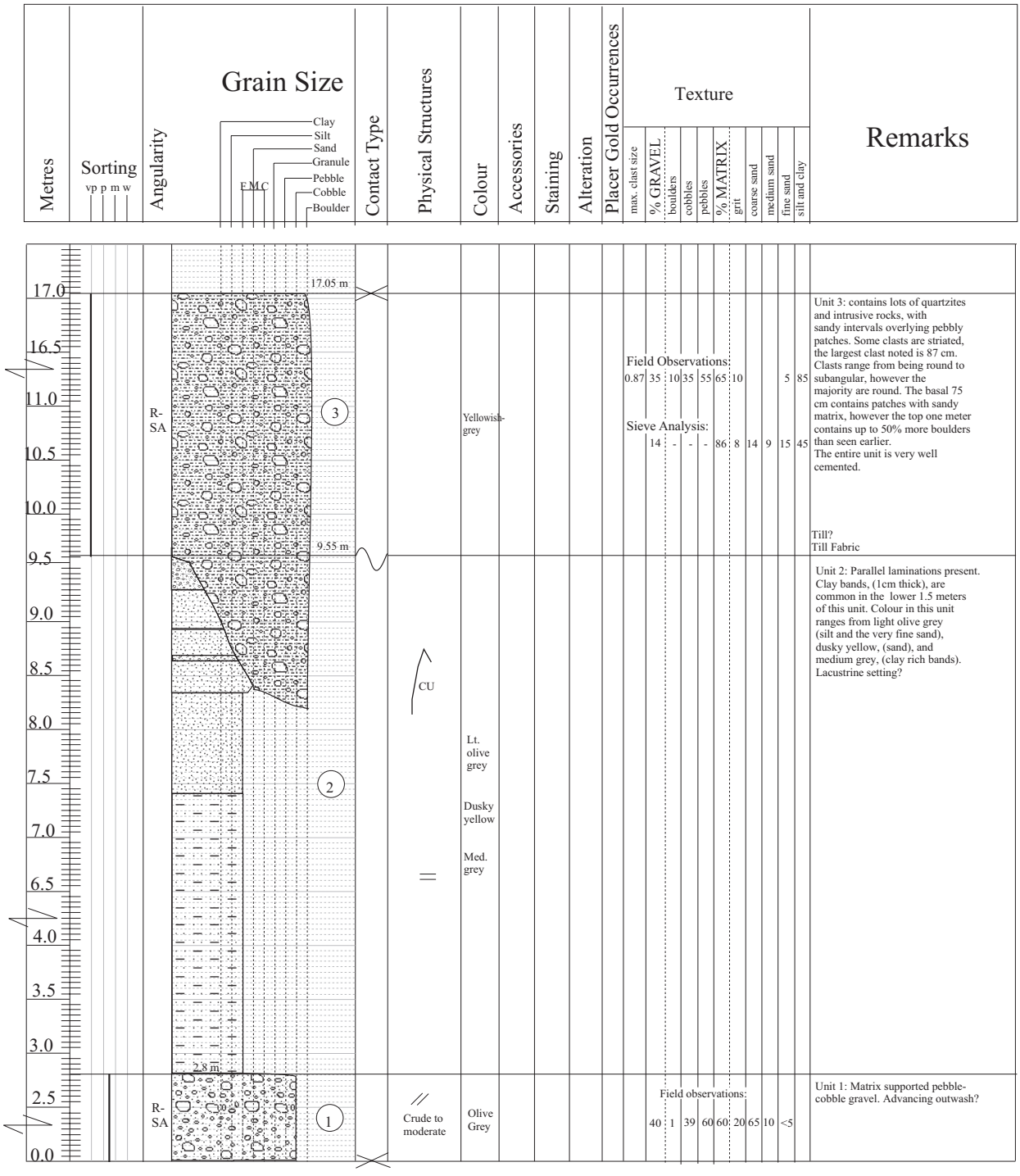
Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics
Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds
Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 31/ 07 97 Section number: MIC9711 Measured by: TA, LM Creek or River: Minto Creek NTS: 115 P/9

Latitude: 63º42.208' Longitude: 136º08.108' Elevation: UTM: E0443899, N7064232

Orientation: 080 ⟷ 260 Geomorphic landform:

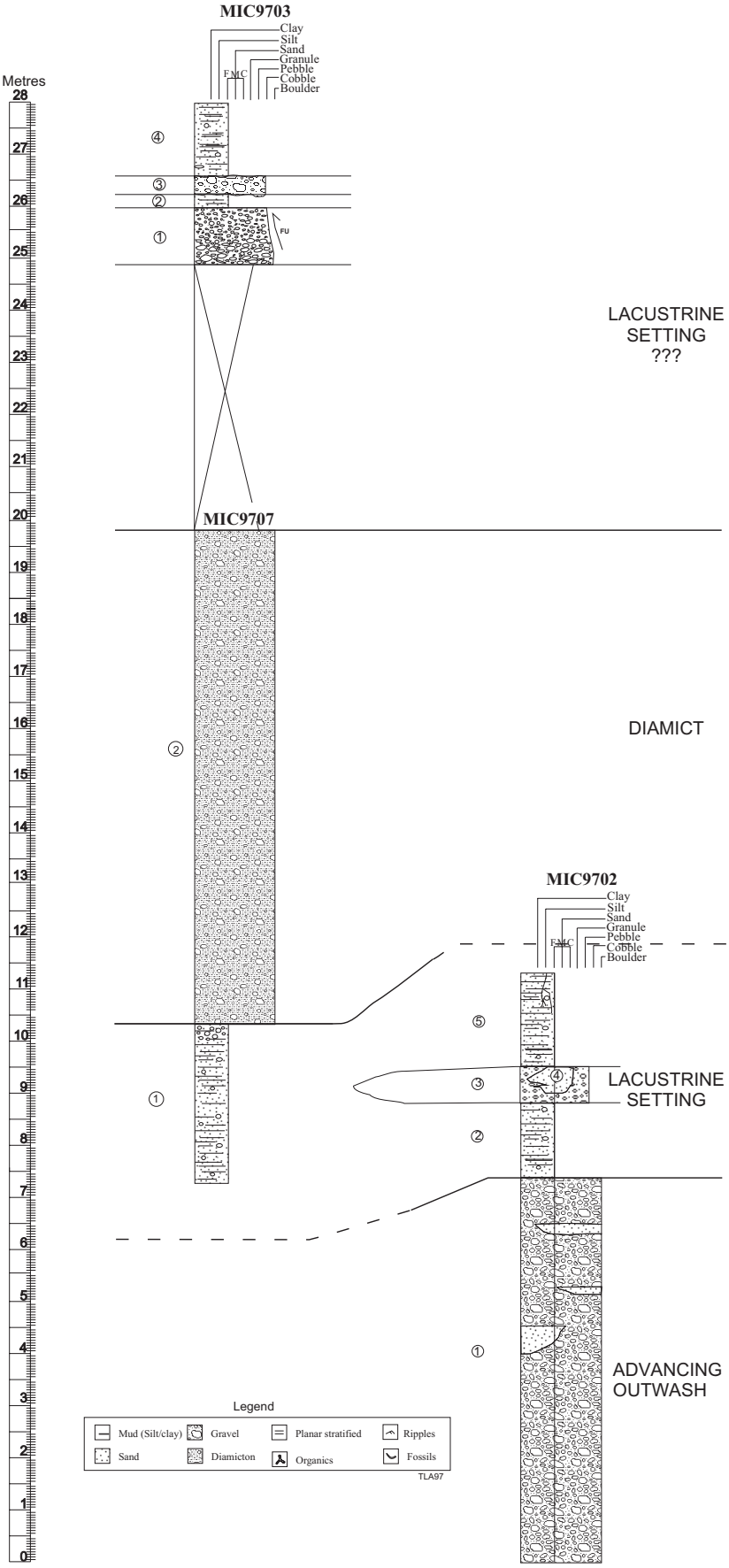


Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics

Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features


MIC9703
Clay
Silt
Sand
Granule
Pebble
Cobble
Boulder
FMC
FU
Metres
28
27
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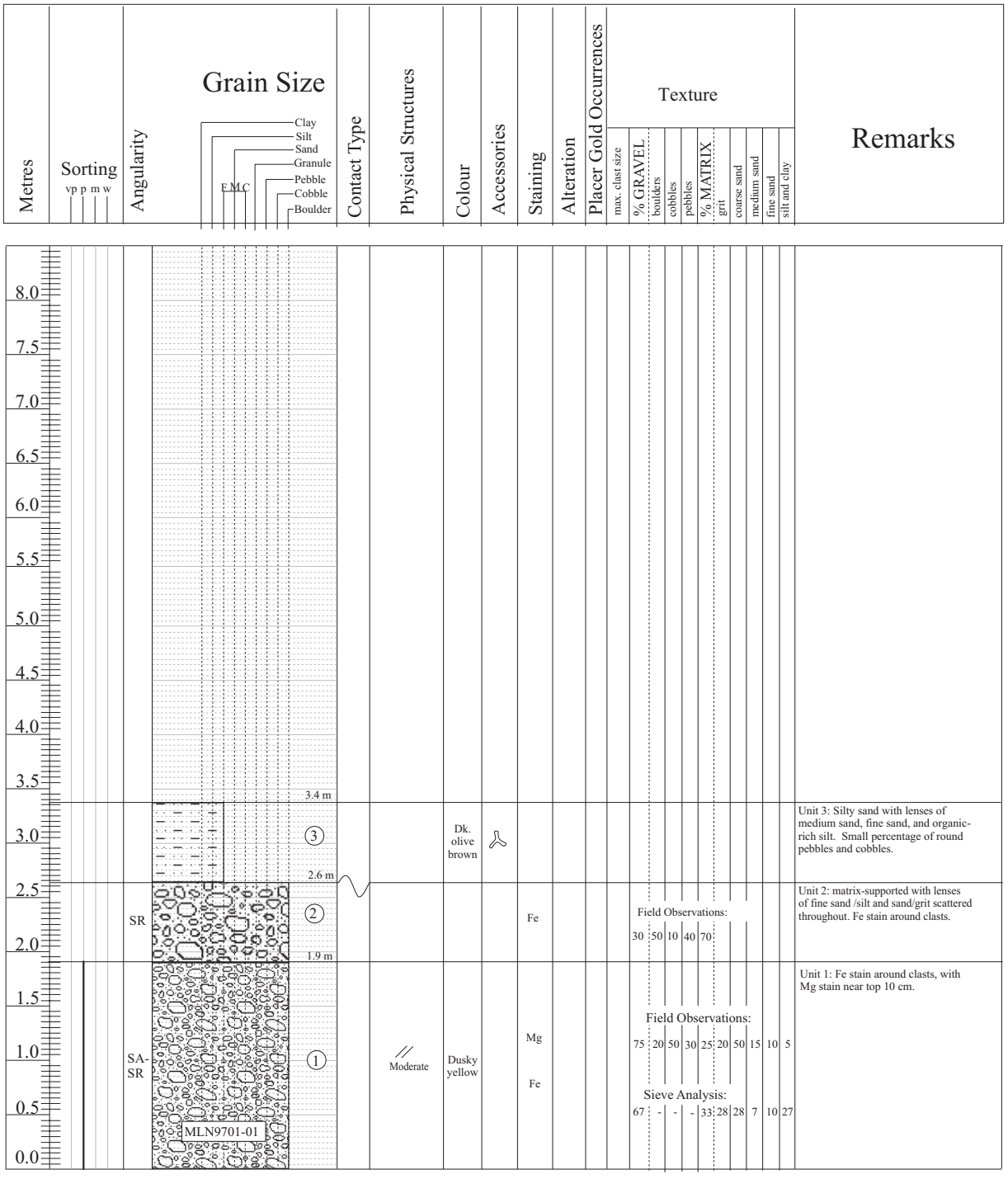
2
1
0
④
③
②
①
LACUSTRINE
SETTING
???
MIC9707
DIAMICT
MIC9702
⑤
LACUSTRINE
SETTING
ADVANCING
OUTWASH
Legend
Mud (Silt/clay)
Gravel
Planar stratified
Ripples
Sand
Diamicton
Organics
Fossils
TLA97

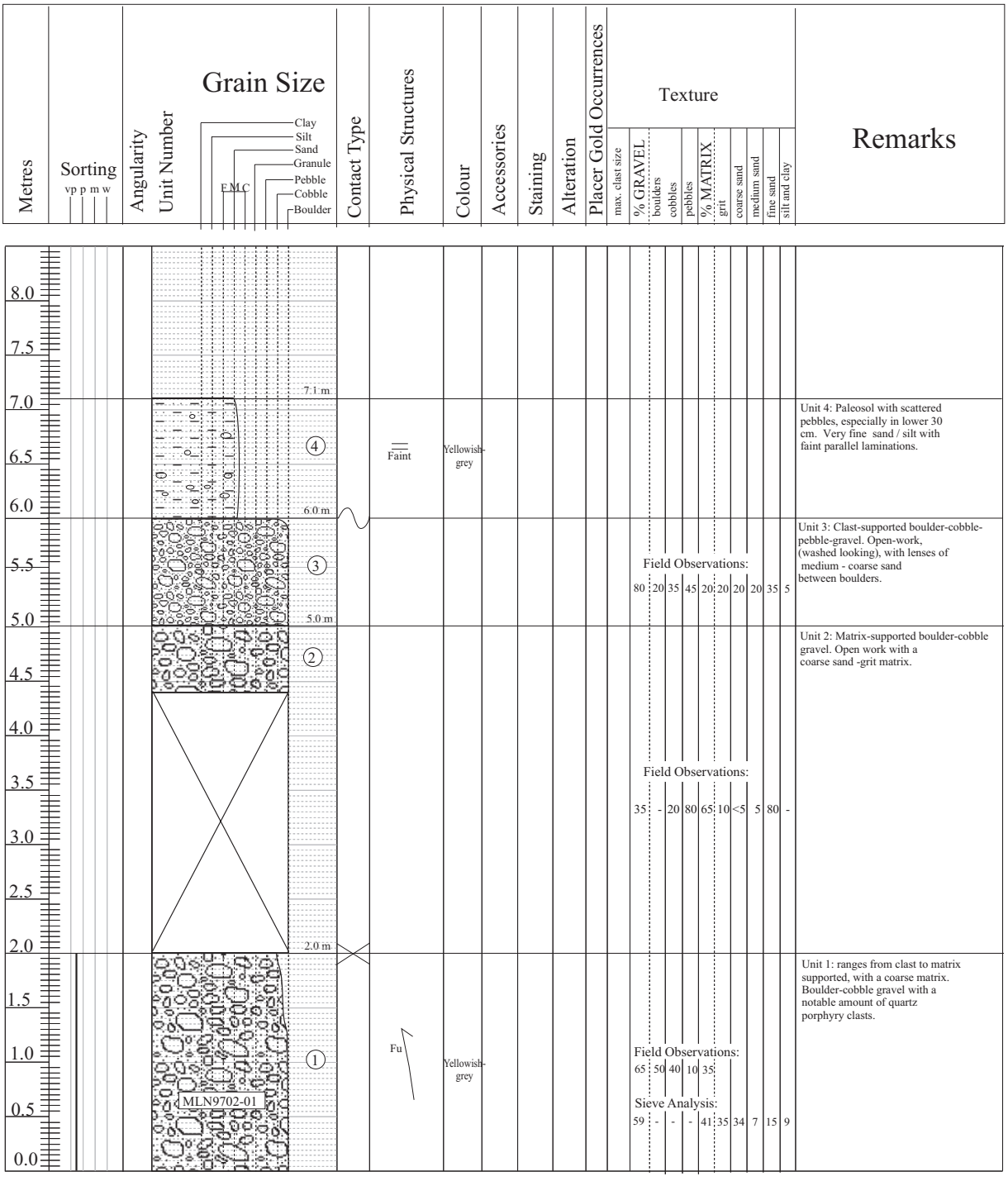
Date: 01/08/97 Section number: MLN9701 Measured by: TA, DM Creek or River: McLagan Creek NTS: 115 P/9
Latitude: 63º42'31.8" Longitude: 136º13'23.6" Elevation: 2800 ft UTM: N7064954, E0439548
Orientation: _____ ⟷ _____ Geomorphic landform: _____



Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics
Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds
Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 01/08/97 Section number: MLN9702 Measured by: TA, DM Creek or River: McLagan Creek NTS: 115 P/9
Latitude: 63º41'42.3" Longitude: 136º13'34.3" Elevation: 2400 ft UTM: N7063424, E0439372
Orientation: _____ ⟷ _____ Geomorphic landform: _____



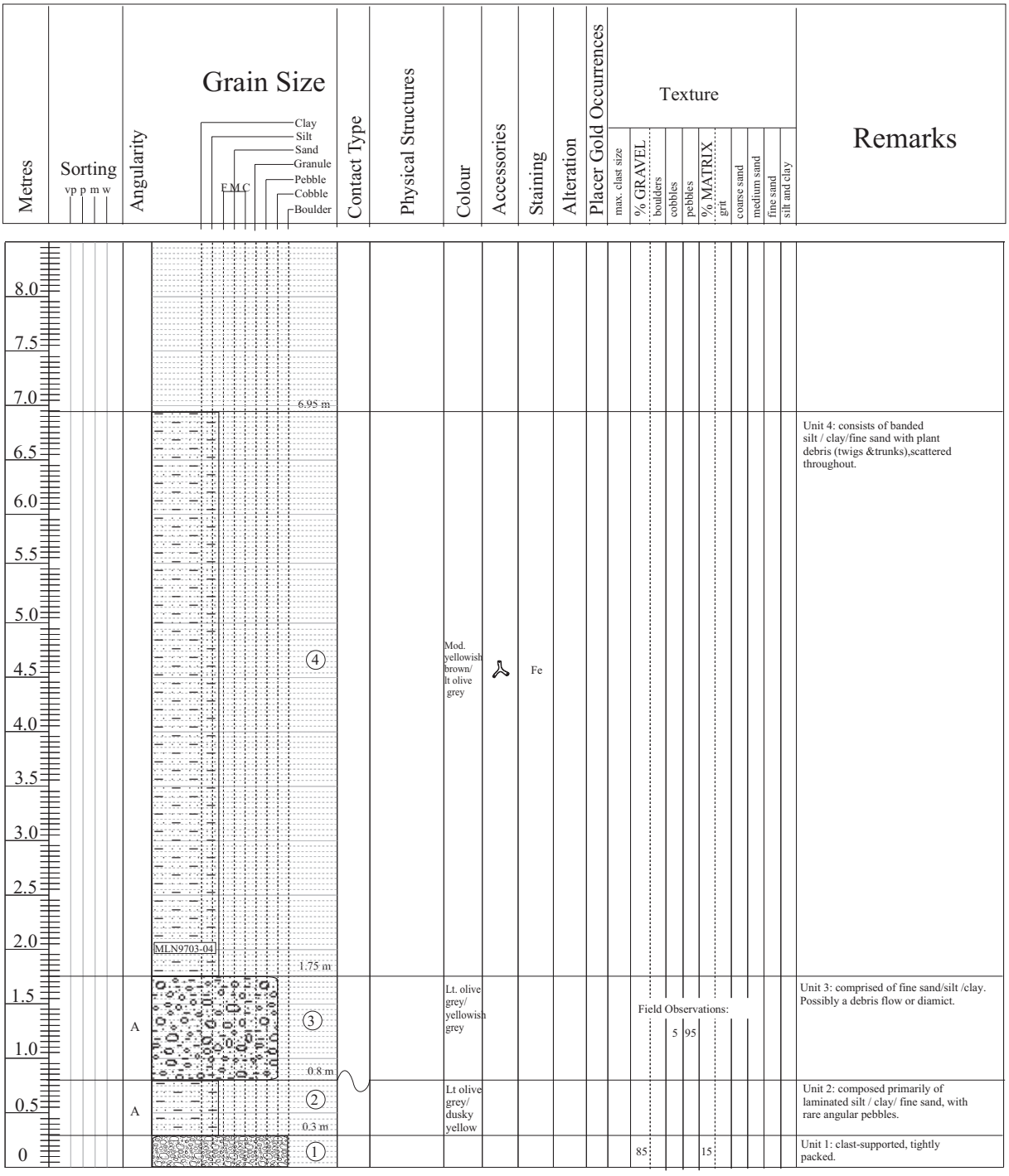
Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics
Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds
Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 01/08/97 Section number: MLN9703 Measured by: TA, DM Creek or River: McLagan Creek NTS: 115 P/9

Latitude: 63º41'26.1" Longitude: 136º13'7.7" Elevation: 2200 ft UTM: E0439728, N7062728

Orientation: _____ ⟷ _____ Geomorphic landform: _____



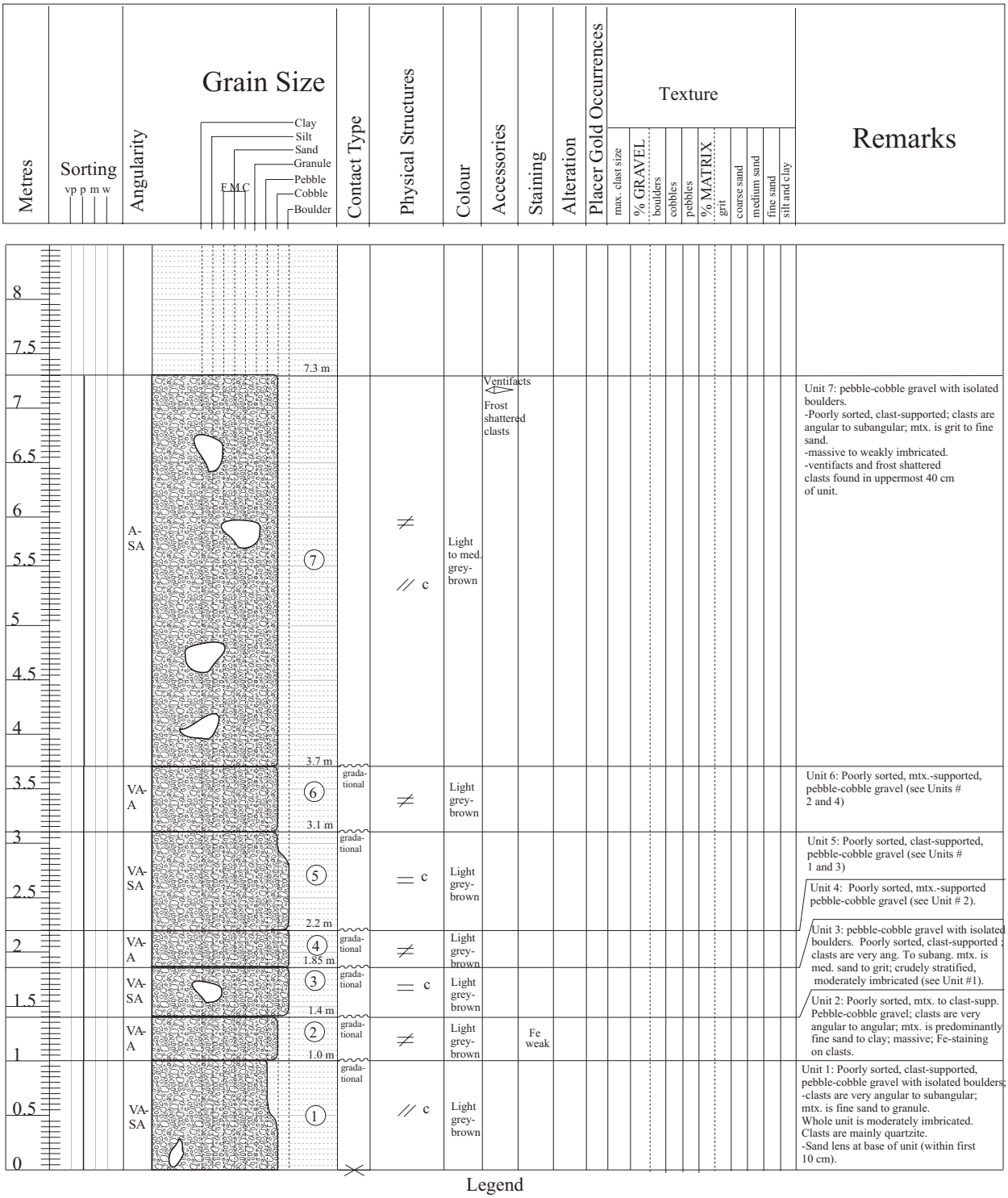
Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics

Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

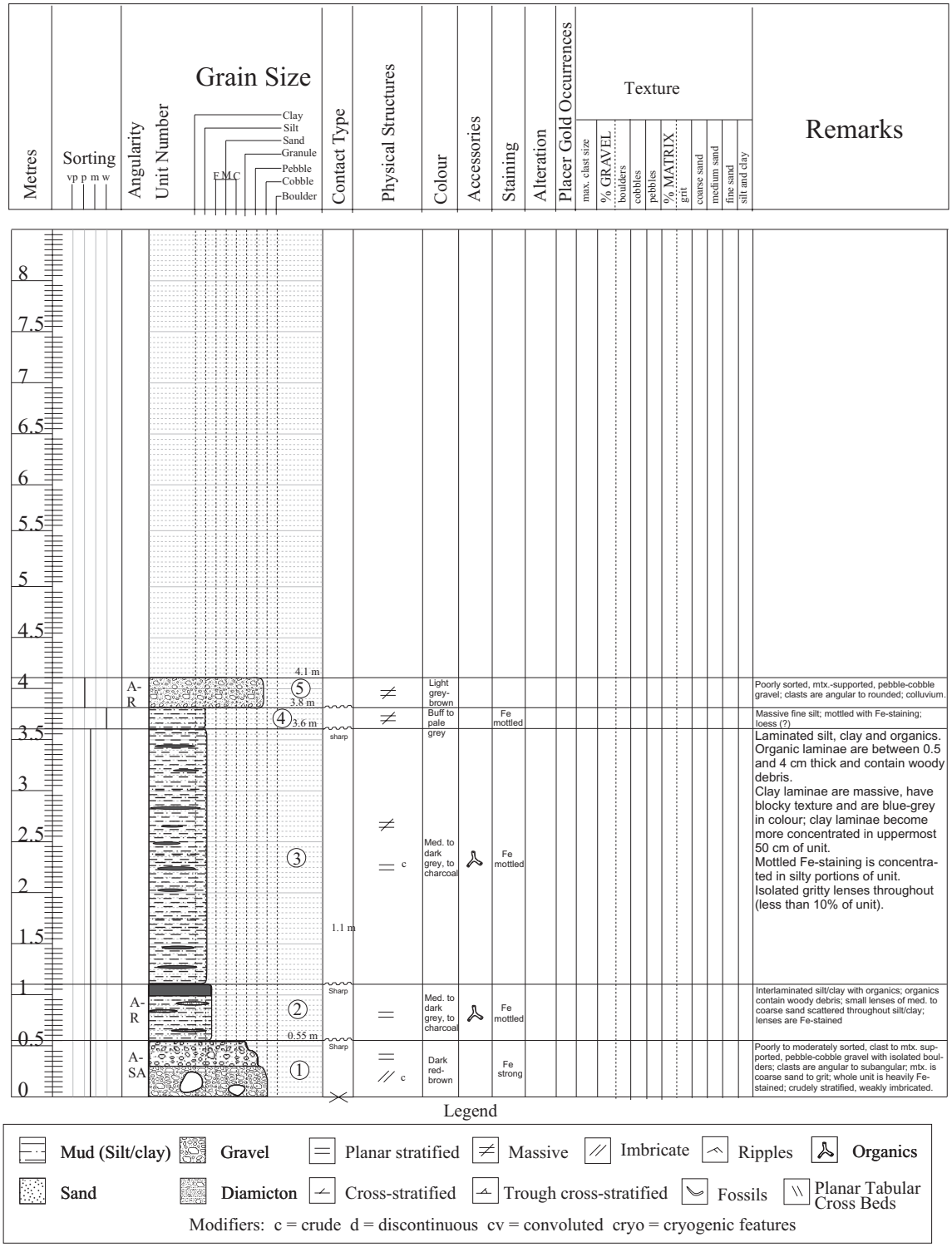
Date: 20/08/96 Section number: GILL 3 Measured by: LW/BL Creek or River: Gill Gulch NTS: 106D4
Latitude 64°01'38''N Longitude: 135°51'11''W Elevation: 2415 UTM: 458250E,7100175N
Orientation: 235° ⟷ 055° upstream Geomorphic landform: Periglacial Fan



Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics
Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds
Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

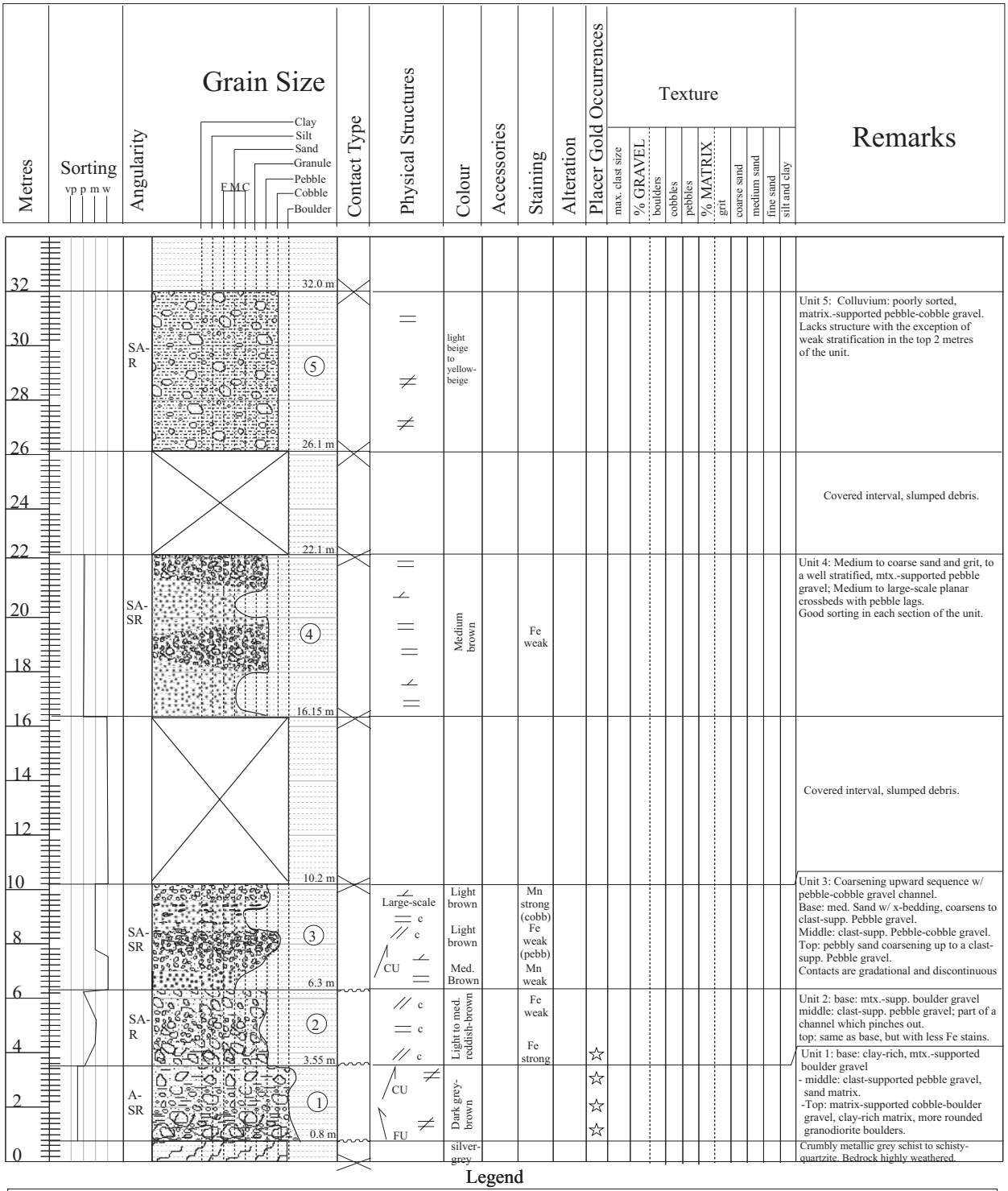
Date: 21/08/96 Section number: GILL4 Measured by: LW/FH Creek or River: Gill Gulch NTS: 106D4
Latitude: 64°01'41''N Longitude: 135°51'15''W Elevation: 2440 UTM: 458200E,7100275N
Orientation: 160° ⟷ 340° upstream Geomorphic landform: Alluvial Plain/Alluvial Fan



Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics
Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds
Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

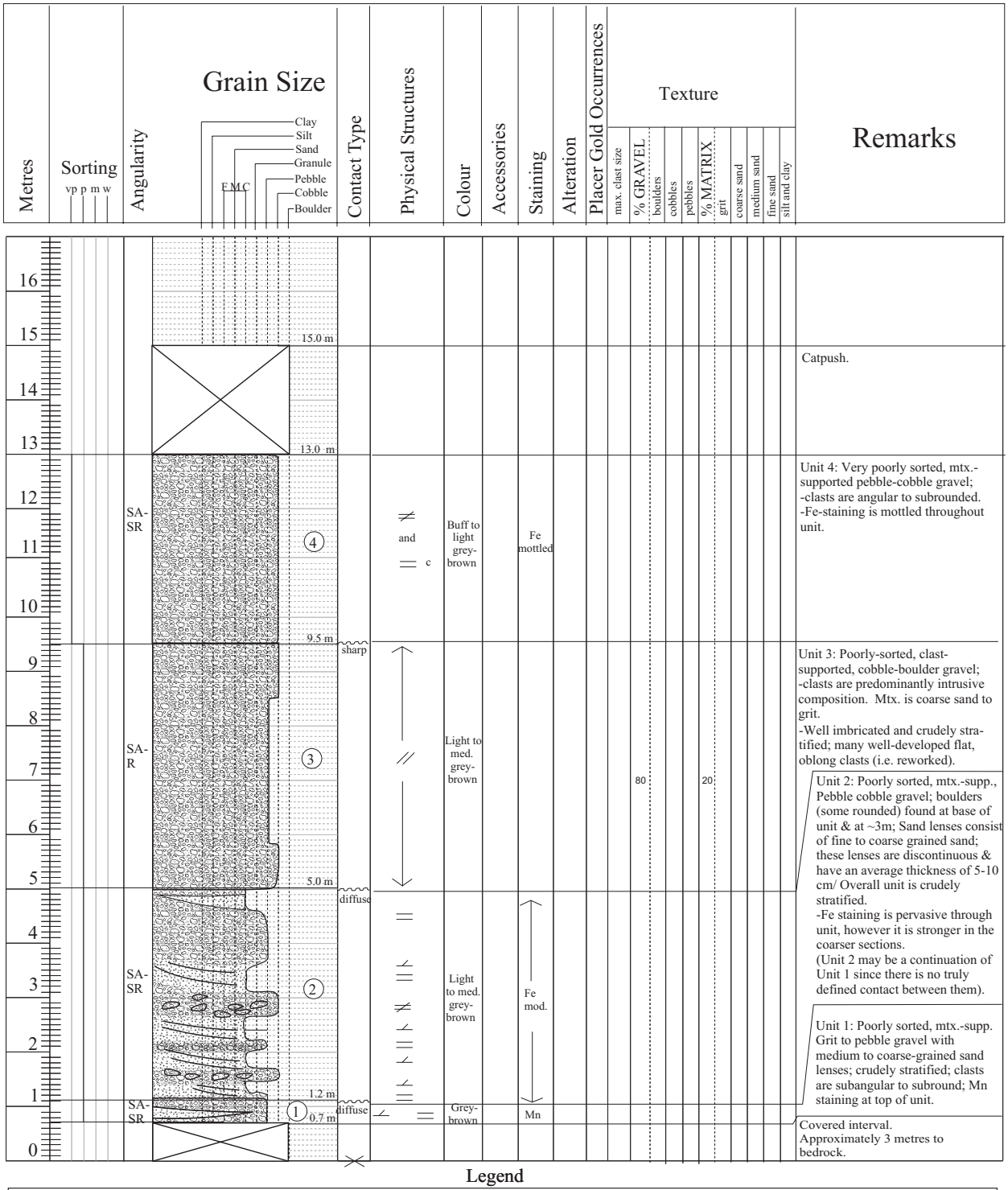
Date: 17/06/97 Section number: LW-97-01 Measured by: LW, LM Creek or River: Haggart Creek NTS: 106D4
Latitude: 64°00'55"N Longitude: 135°50'53"W Elevation: 2500 ft. UTM: 0458542E,7098796N
Orientation: 176° ⟷ 356° upstream Geomorphic landform: Alluvial fan / Colluvial Apron



Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics
Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds
Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

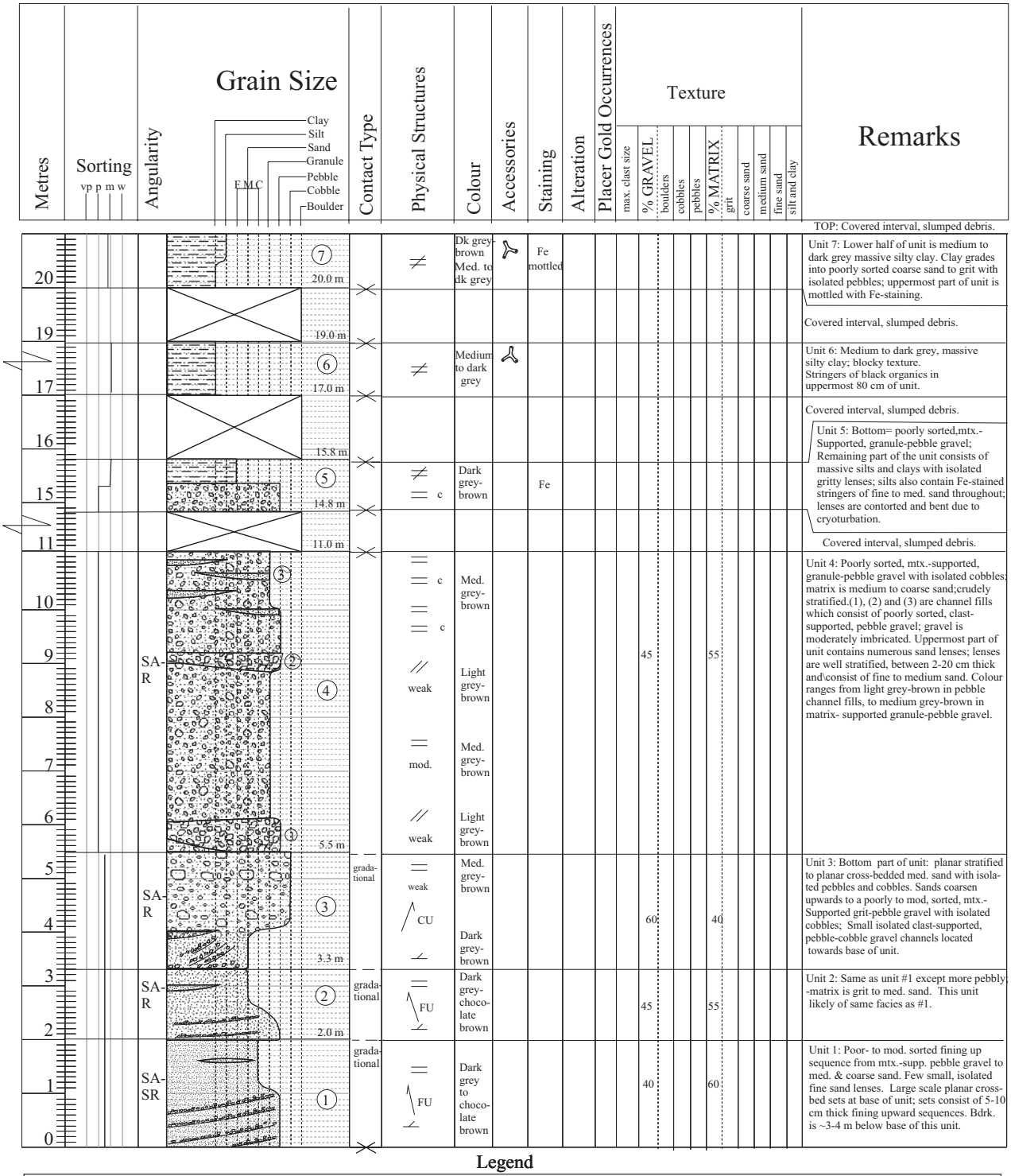
Date: 24/ 6/97 Section number: LW-97-02 Measured by: LW/LM Creek or River: Haggart Creek NTS: 106D4
Latitude: 64° 00'48''N Longitude: 135 °50'53''W Elevation: 2475 ft UTM: 458525E,7098700N
Orientation: 189 ° ⟷ 009 ° upstream Geomorphic landform: Glacial Fluvial Complex/Colluvial Apron



Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics
Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds
Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

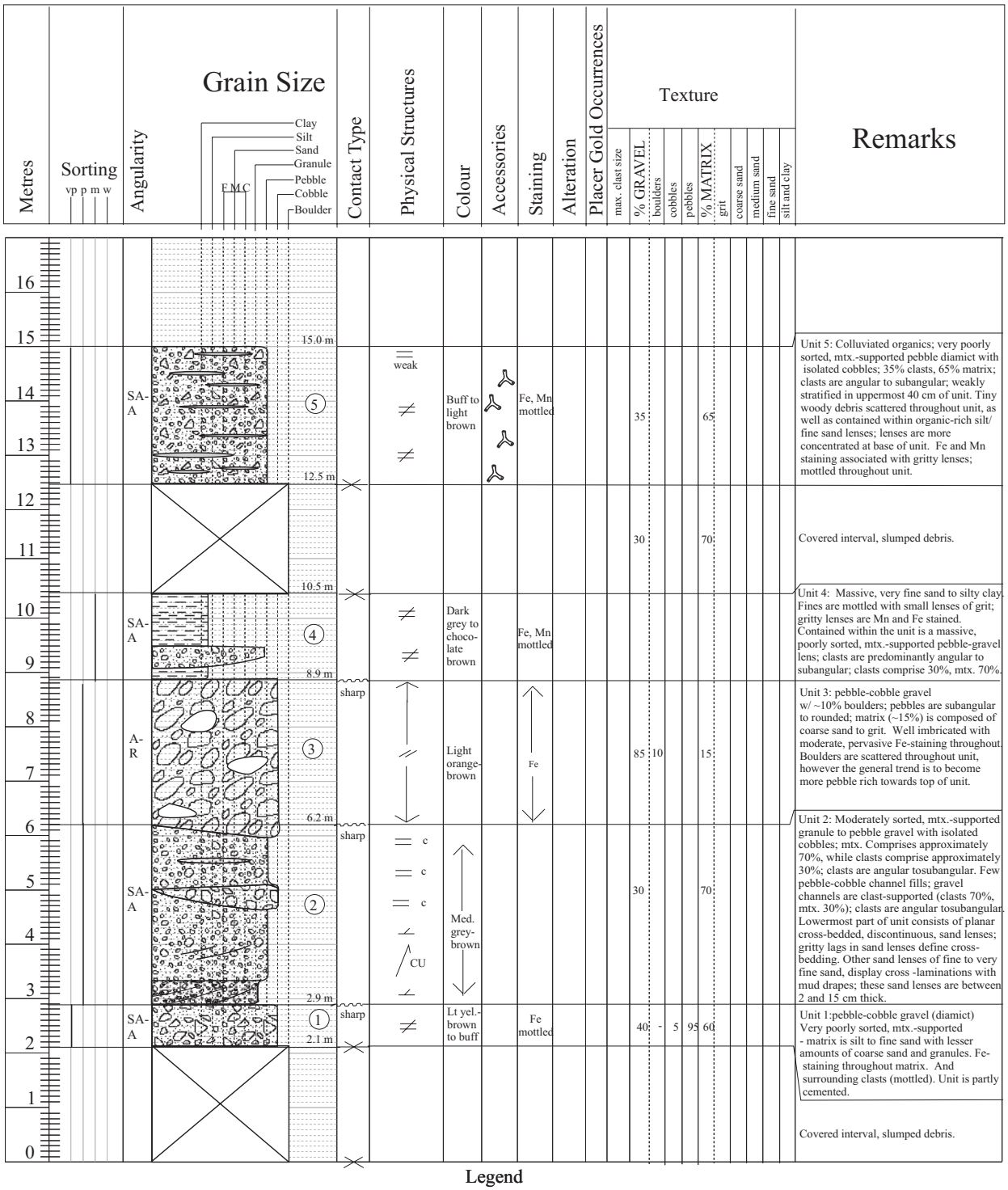
Date: 25/06/97 Section number: LW-97-03 Measured by: LW/LM Creek or River: Haggart Creek NTS: 106D4
Latitude: 64°00'51''N Longitude: 135°50'53''W Elevation: 2485 ft UTM: 458525E,7098800N
Orientation: 201° ⟷ 021° upstream Geomorphic landform: Alluvial Fan/Colluvial Apron



Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics
Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds
Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

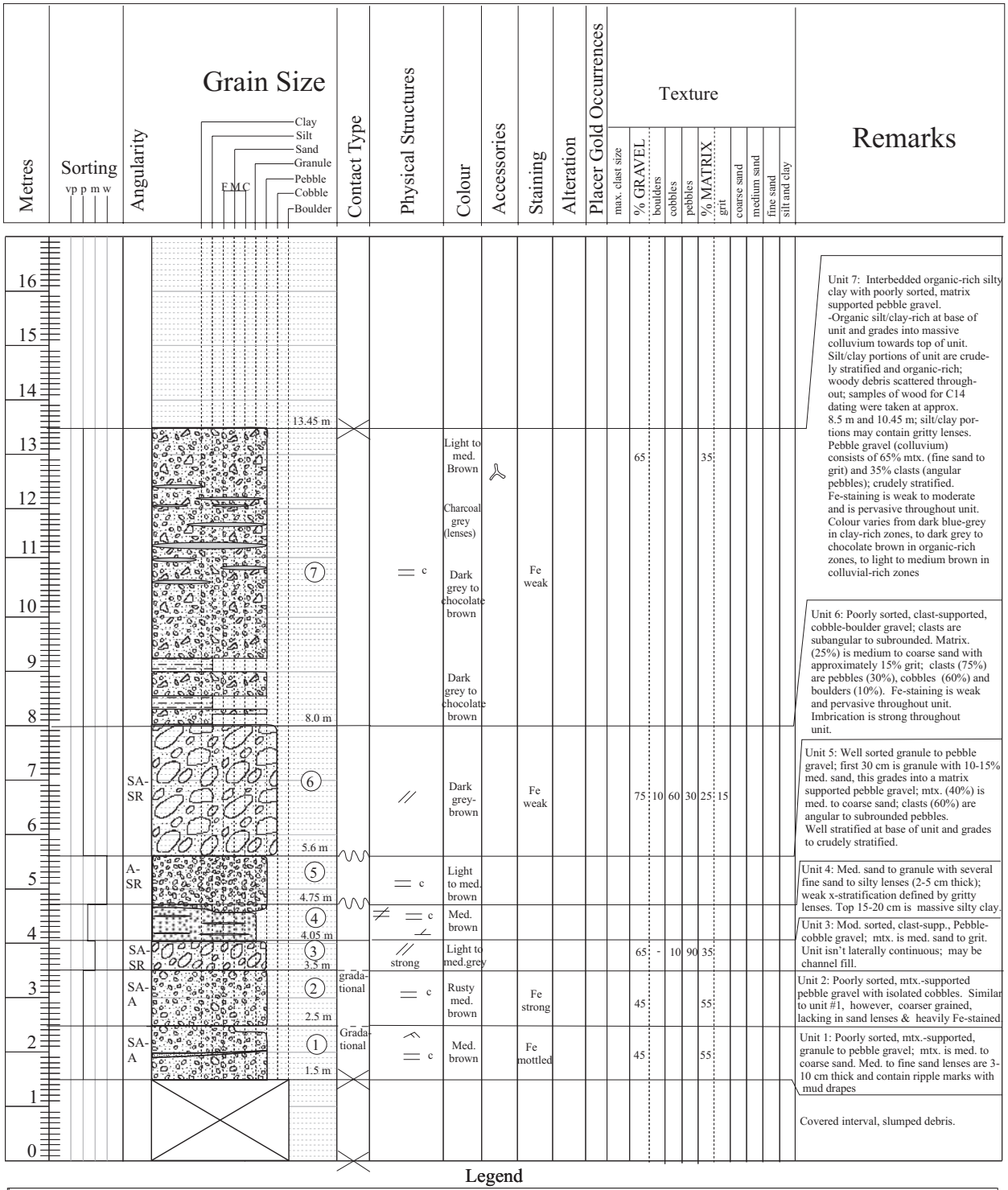
Date: 26/06/97 Section number: LW-97-04 Measured by: LW/TA Creek or River: Haggart Creek NTS: 106D4
Latitude: 64°00'43''N Longitude: 135°50'53"W Elevation: 2450 UTM: 458525E,7098525N
Orientation: 190° ⟷ 010° upstream Geomorphic landform: Glaciofluvial Complex/Colluvial Apron



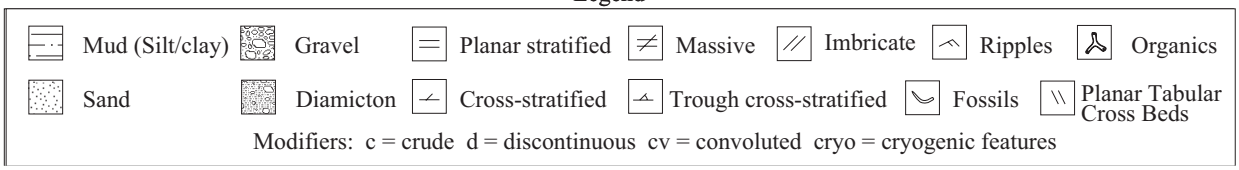
Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics
Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds
Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 02/07/97 Section number: LW-97-05 Measured by: LW, LM Creek or River: Haggart Creek NTS: 106D4
Latitude: 64°00'42"N Longitude: 135°50'53"W Elevation: 2450 ft. UTM: 458525E, 7098500N
Orientation: 192° ⟷ 012° upstream Geomorphic landform: Glaciofluvial Complex / Colluvial Apron



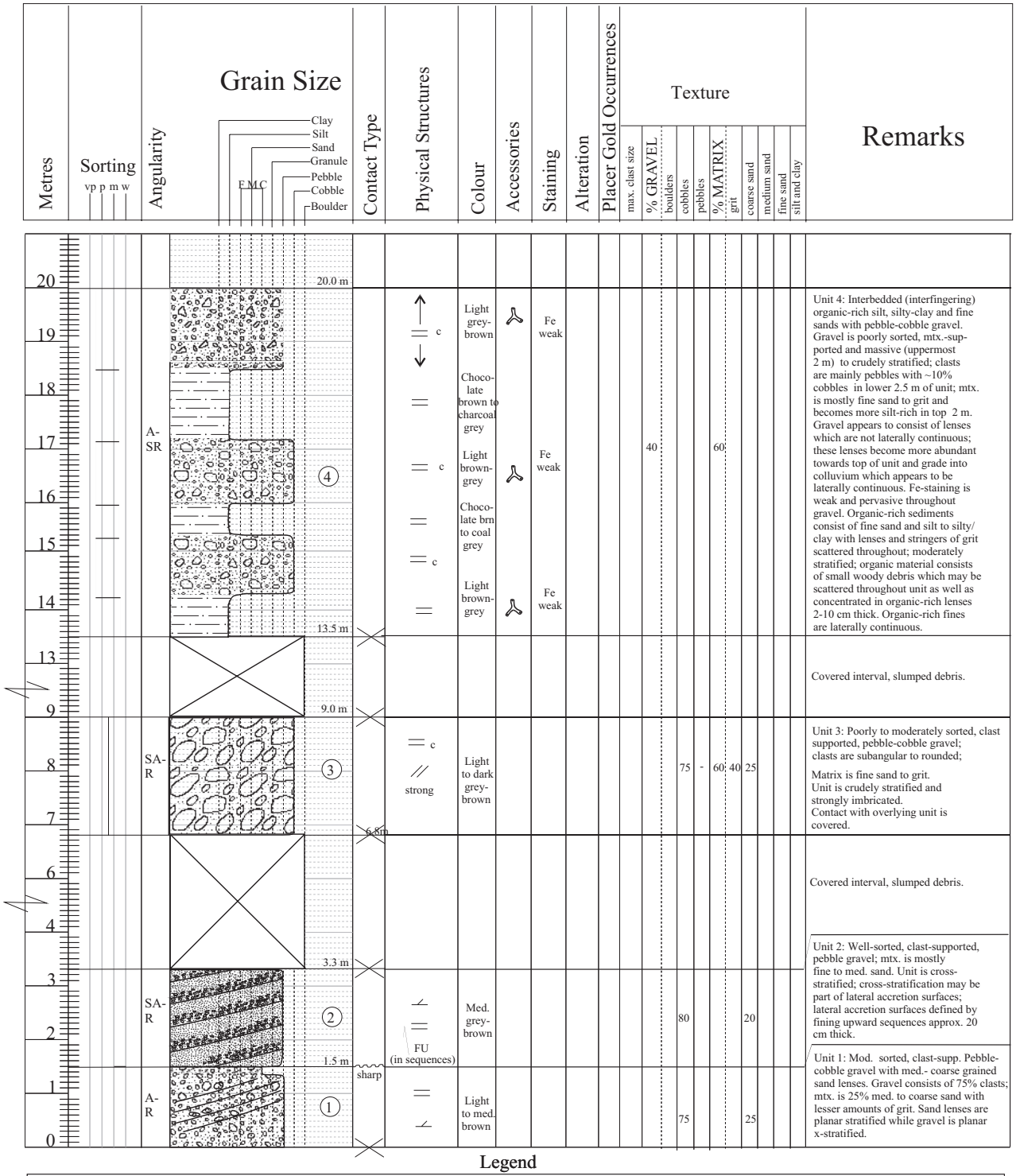
Legend



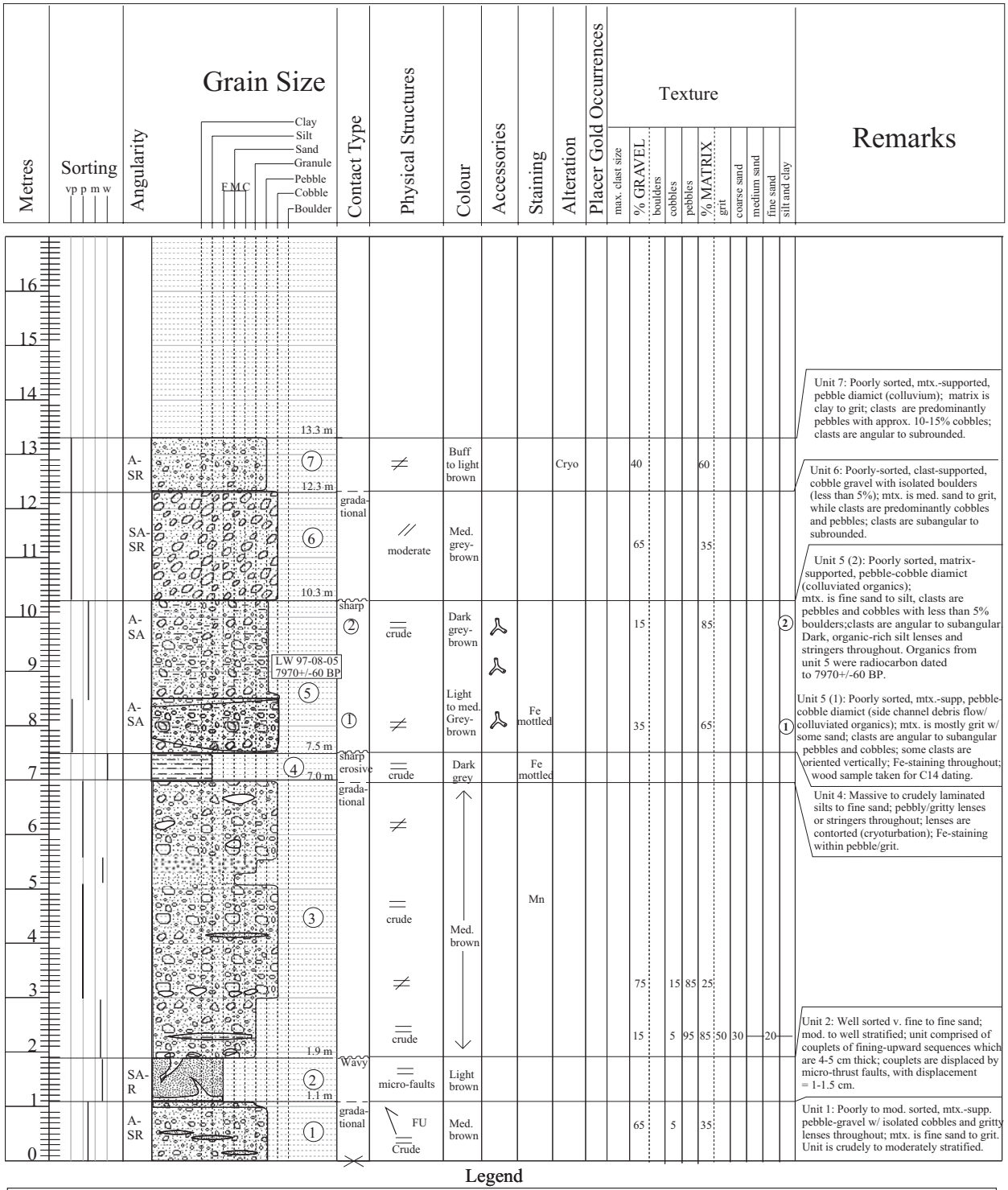
Date: 11/ 07 97 Section number: LW-97-06 Measured by: LW, LM Creek or River: Haggart Creek NTS: 106D4

Latitude: 64°00'49"N Longitude: 135°50'53"W Elevation: 2480 ft. UTM: 458525E, 7098725N

Orientation: 088° ⟷ 268° upstream Geomorphic landform: Alluvial Fan / Glaciofluvial Complex / Colluvial Apron



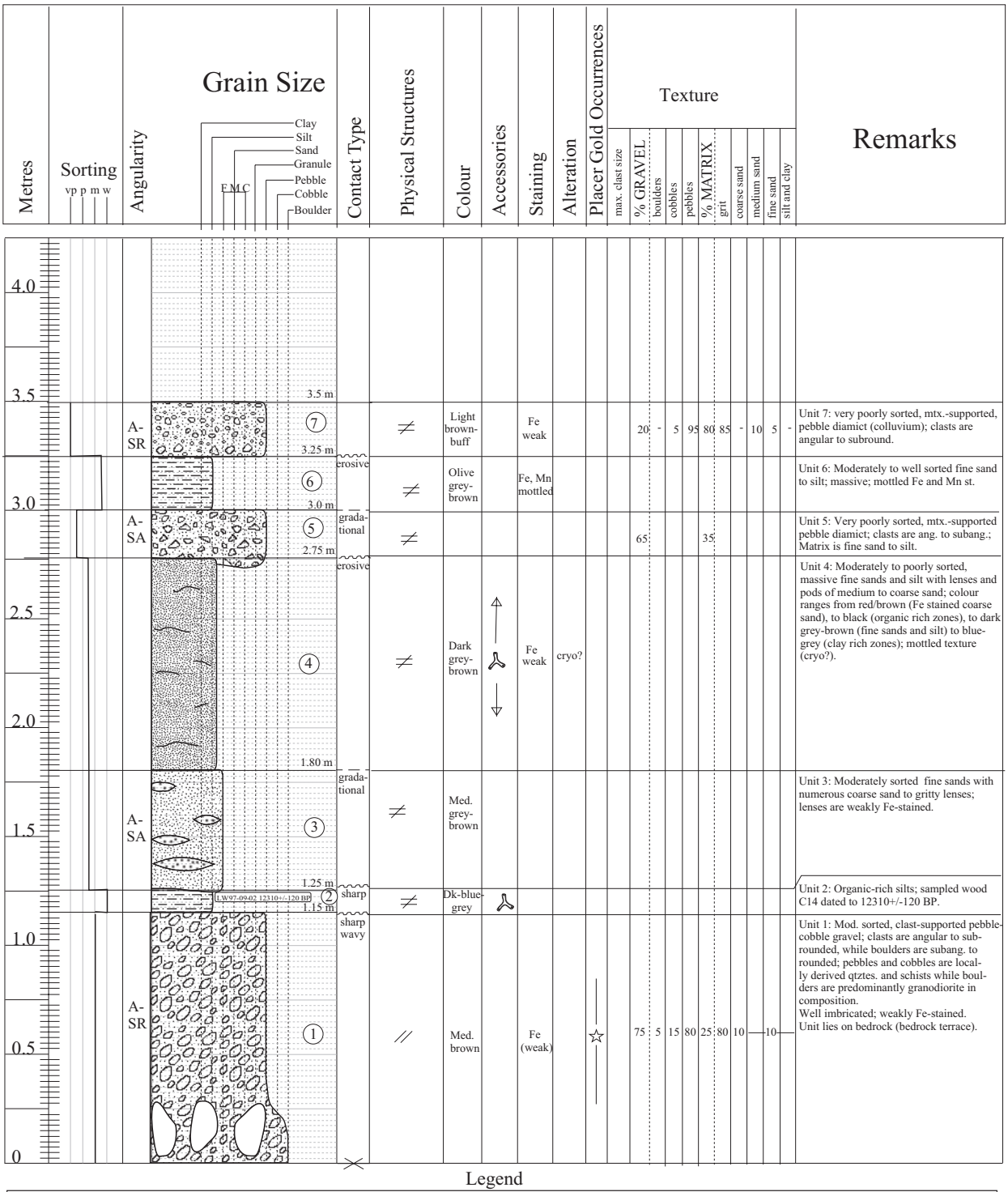
Date: 14/07/97 Section number: LW-97-08 Measured by: LW/JB Creek or River: Haggart Creek NTS:
Latitude: 64 00'57''N Longitude: 135 50'53''W Elevation: UTM: 458525E,7098950N
Orientation: 250 ⟷ 070 Geomorphic landform: Alluvial Fan/Colluvial Apron



Date: 08/08/97 Section number: LW-97-09 Measured by: LW/LM Creek or River: Gill Gulch NTS: 106D4

Latitude 64°01'41''N Longitude: 135°51'15''W Elevation: 2440 UTM: 458200E,7100275N

Orientation: 218° ⟷ 038° upstream Geomorphic landform: Alluvial Gravel/Alluvial Fan



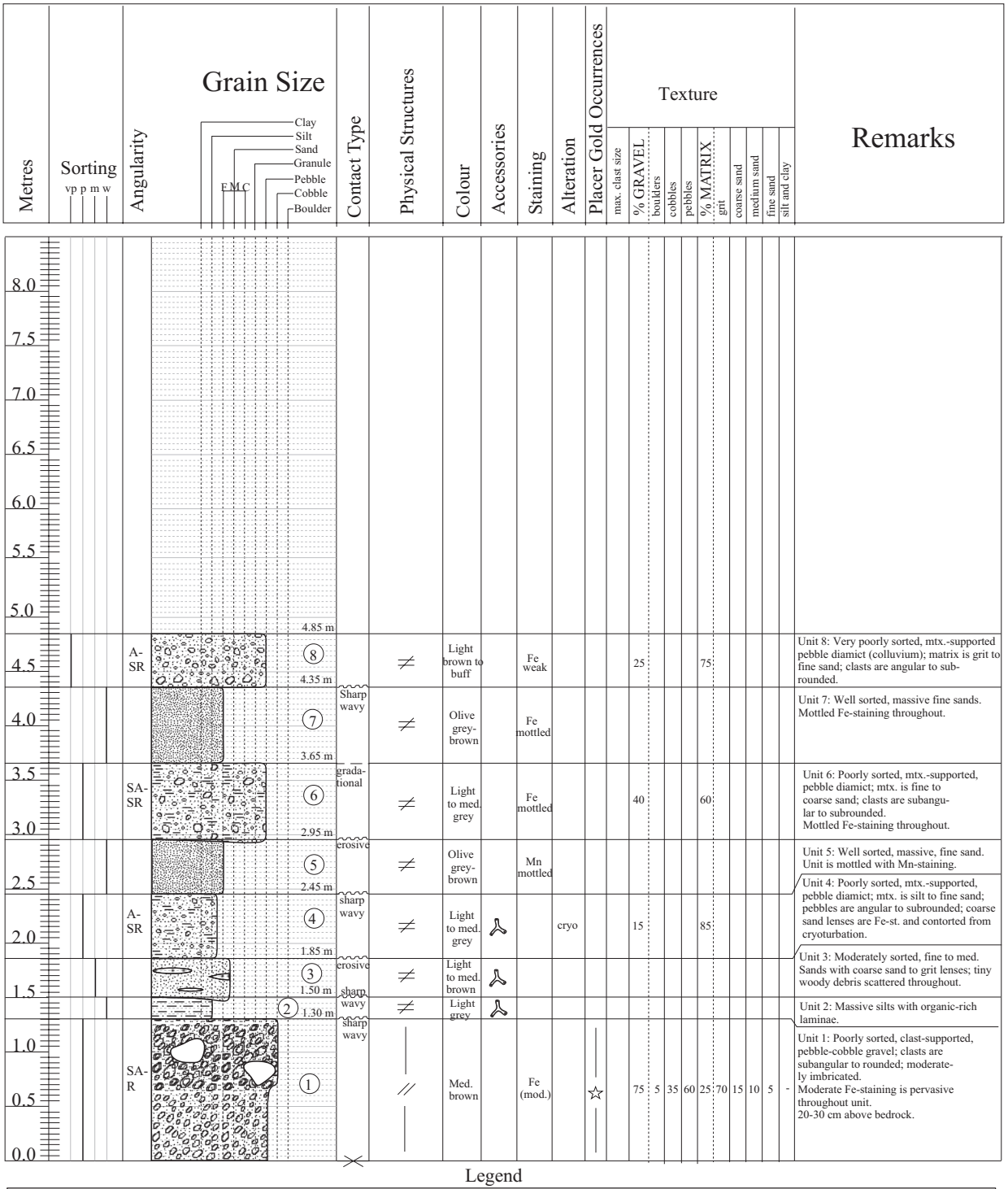
Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics

Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 09/08/97 Section number: LW-97-10 Measured by: LW/LM Creek or River: Gill Gulch NTS: 106D4
Latitude: 64°01'41''N Longitude: 135°51'15''W Elevation: 2440 UTM: 458200E,7100275N
Orientation: 205° ⟷ 025° upstream Geomorphic landform: Alluvial Plain/Alluvial Fan



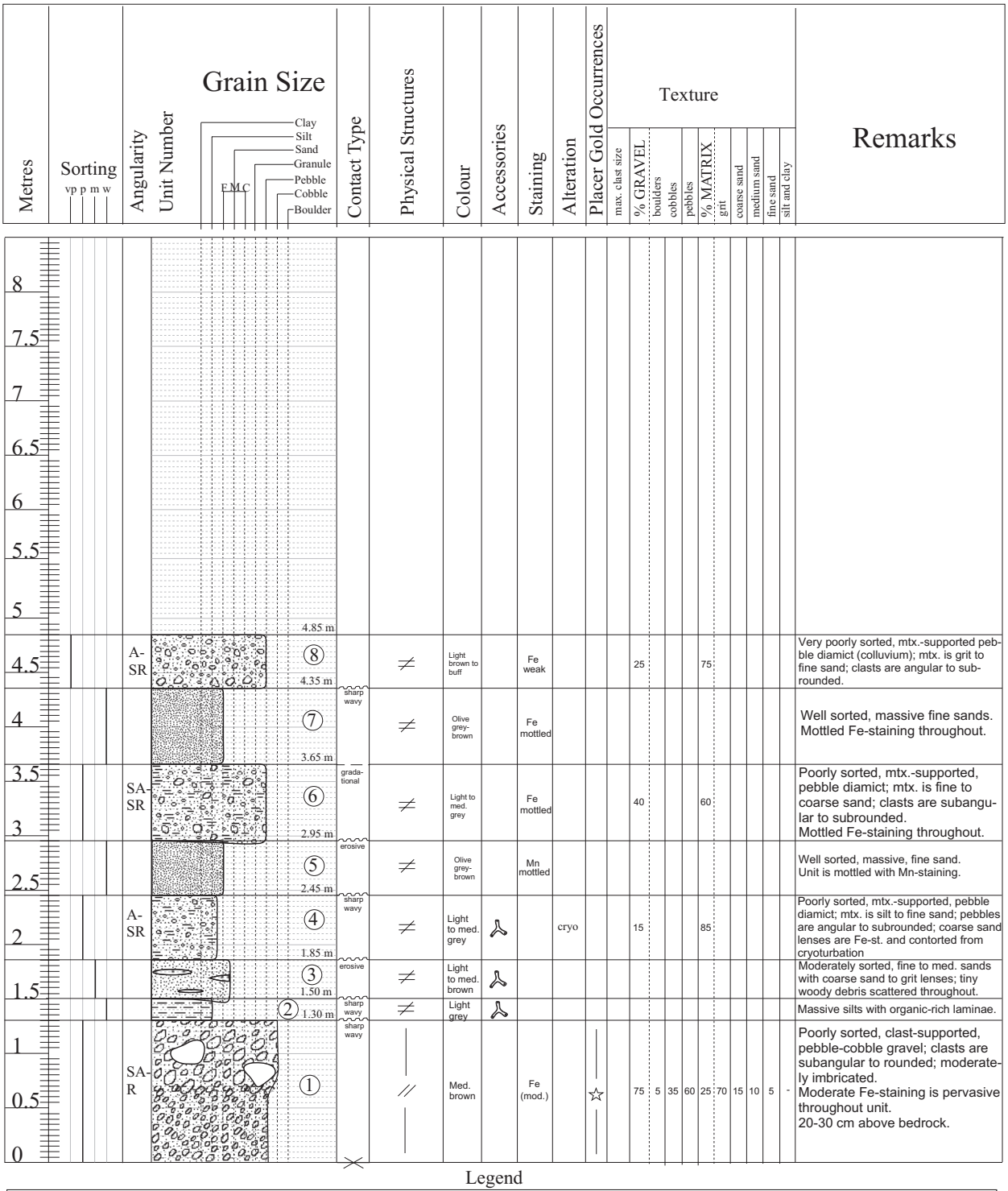
Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics
Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds
Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 09/08/97 Section number: LW-97-10 Measured by: LW/LM Creek or River: Gill Gulch NTS: 106D4

Latitude 64°01'41''N Longitude: 135°51'15''W Elevation: 2440 UTM: 458200E,7100275N

Orientation: 205° ⟷ 025° upstream Geomorphic landform: Alluvial Plain/Alluvial Fan



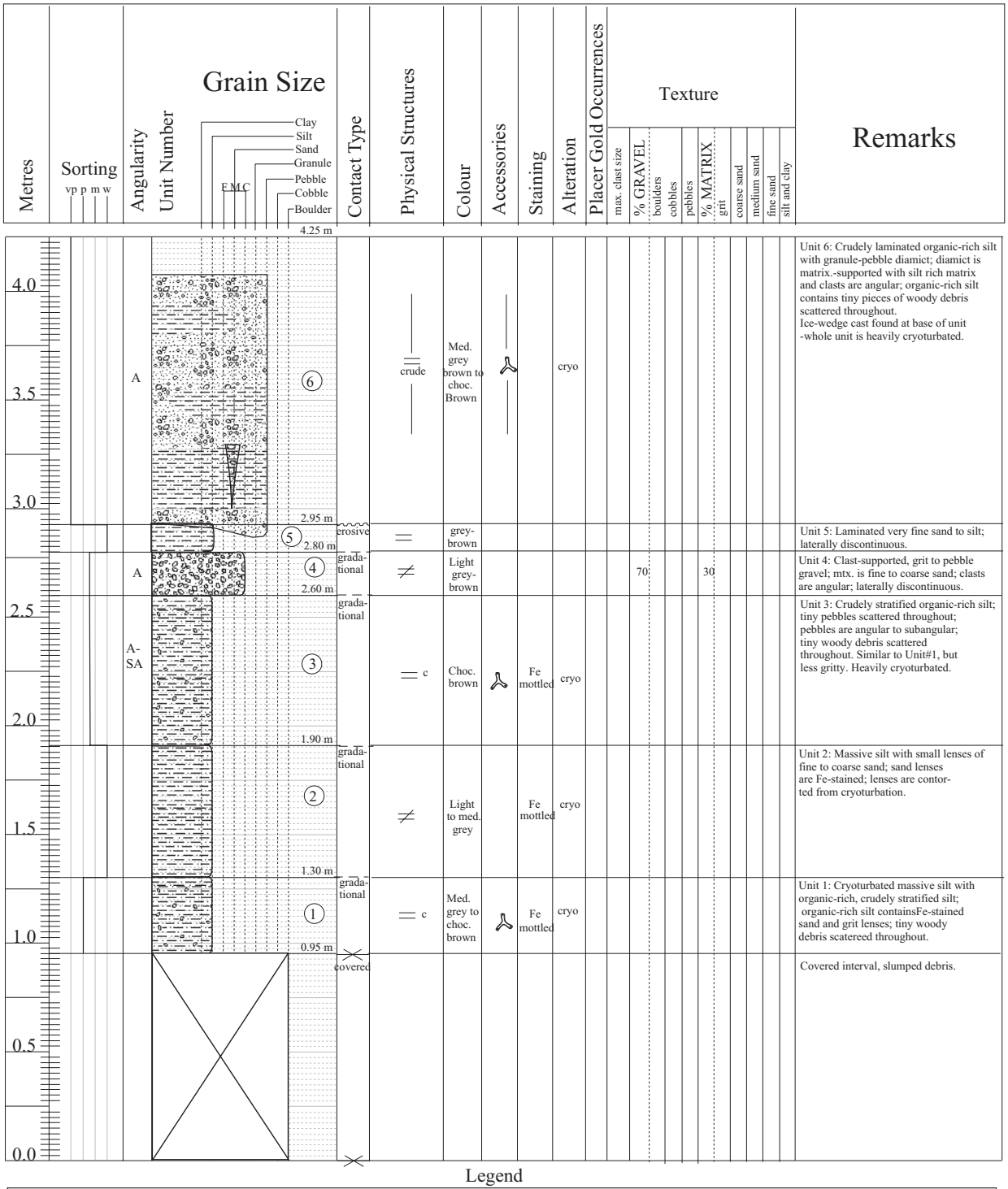
Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics

Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 14/08/97 Section number: LW-97-11 Measured by: LW/LM Creek or River: Gill Gulch NTS: 106D4
Latitude: 64°01'39''N Longitude: 135°51'15''W Elevation: 2445 UTM: 458200E,7100225N
Orientation: 170° ⟷ 350° upstream Geomorphic landform: Alluvial Fan



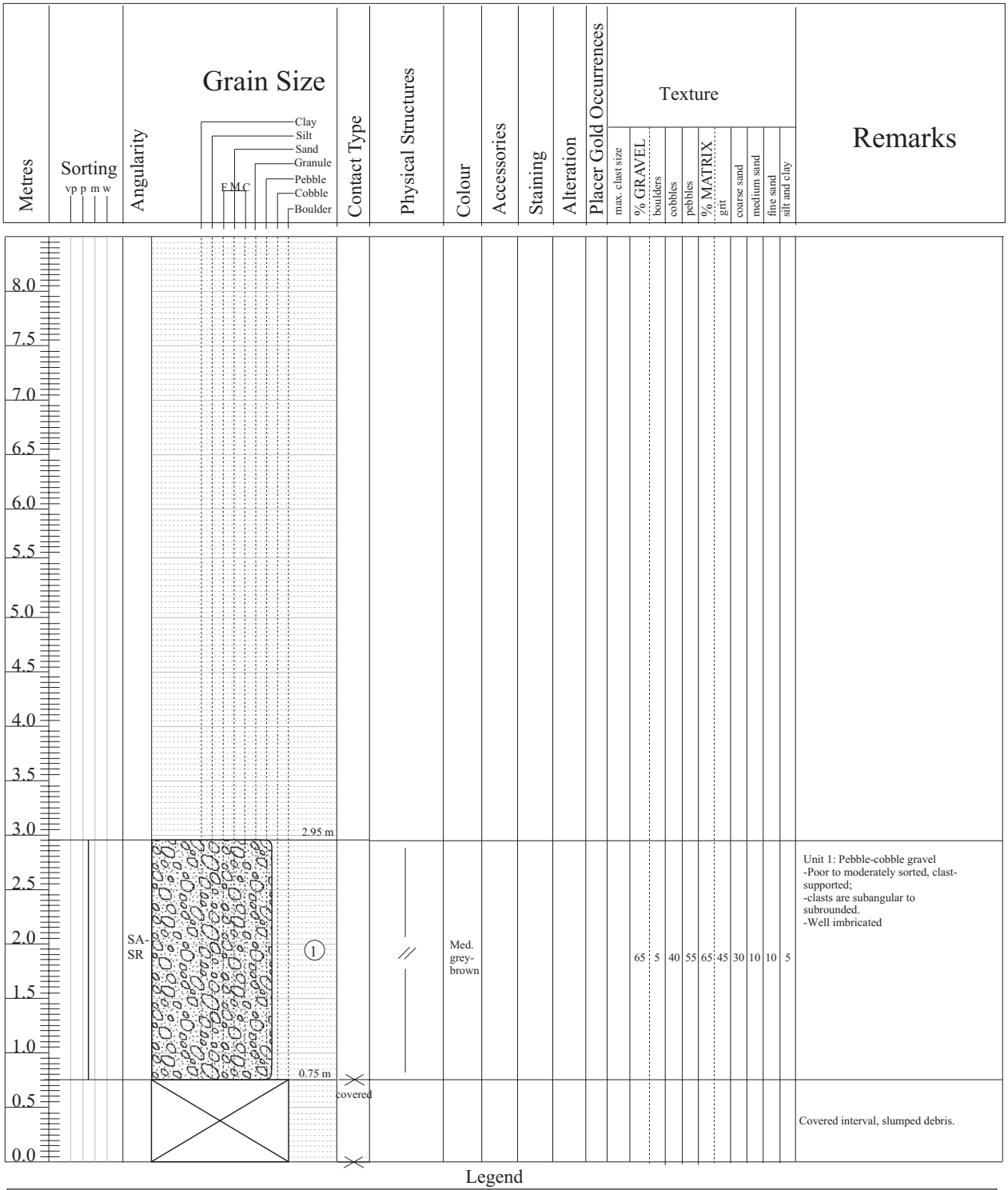
Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics
Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds
Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 14/08/97 Section number: LW-97-12 Measured by: LW/LM Creek or River: Gill Gulch NTS: 106D4

Latitude: 64°01'36''N Longitude: 135° 51'12''W Elevation: 2420 ft UTM: 458225E,7100125N

Orientation: 160° ⟷ 340° (upstream) Geomorphic landform: Alluvial Plain



Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics

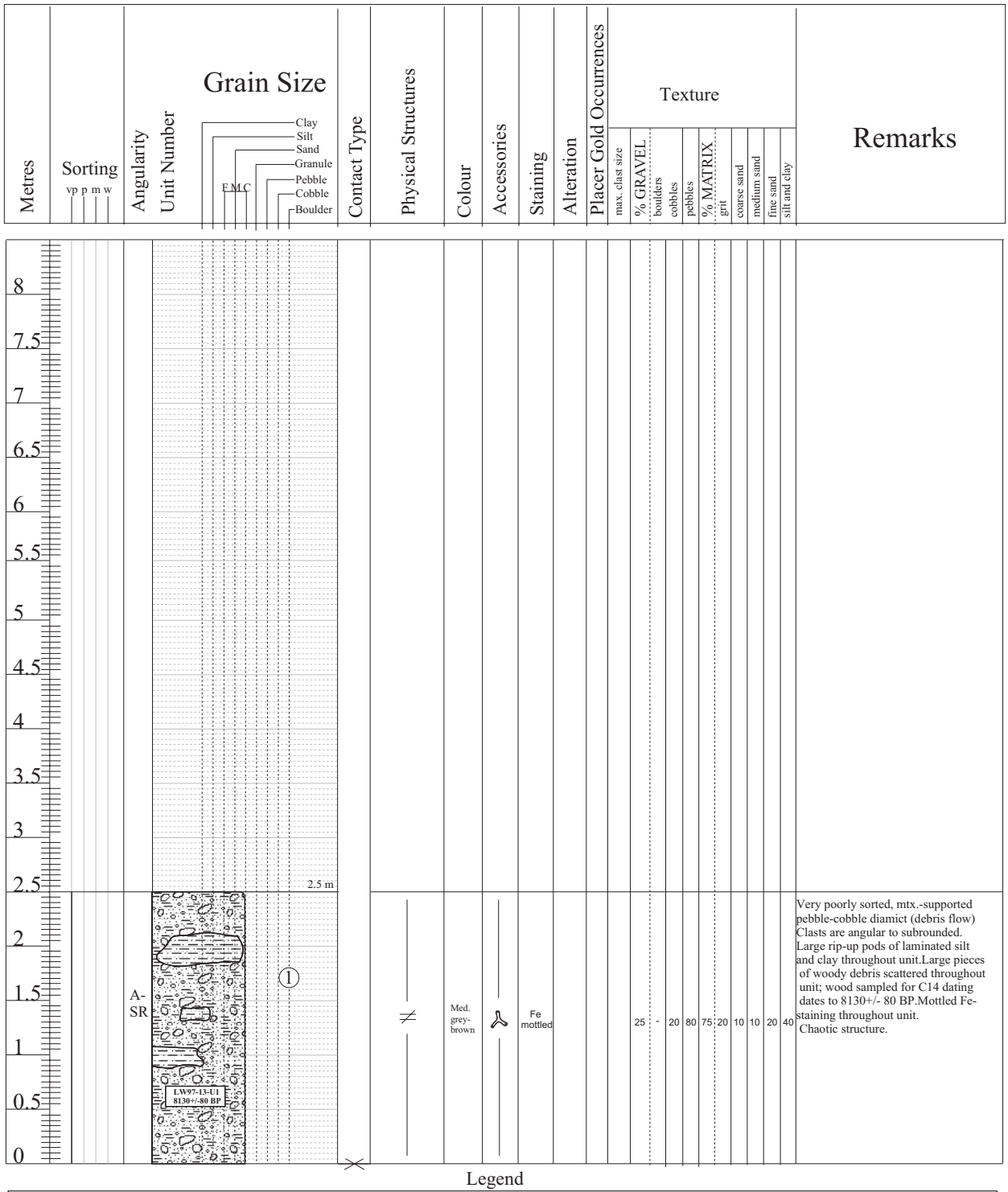
Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 15/08/97 Section number: LW-97-13 Measured by: LW/LM Creek or River: Gill Gulch NTS: 106D4

Latitude 64°01'32''N Longitude: 135°51'07''W Elevation: 2410 UTM: 458325E,7100050N

Orientation: 190° ⟷ 010° upstream Geomorphic landform: Debris Flow



Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics

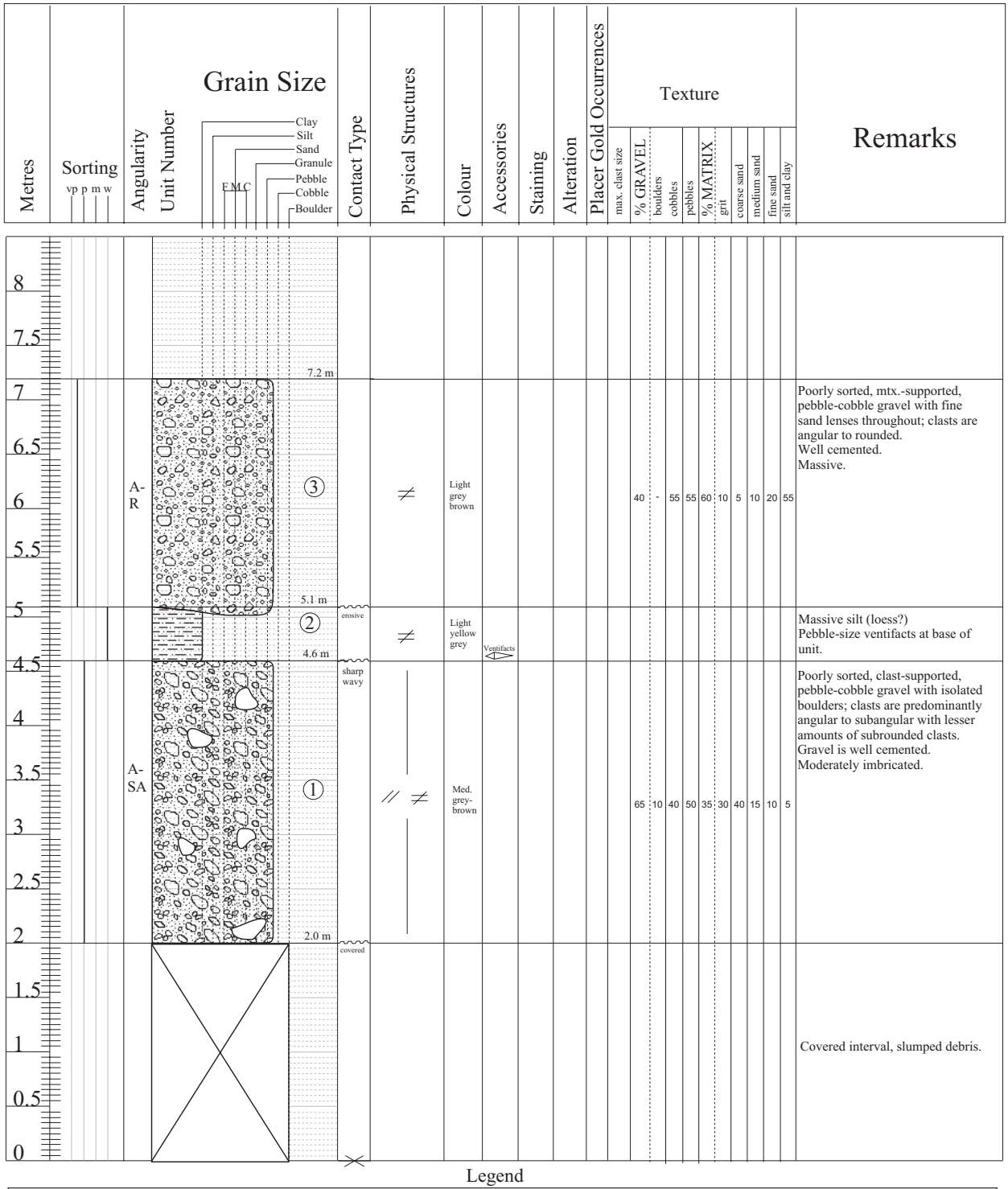
Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 19/08/97 Section number: LW-97-14 Measured by: LW/LM Creek or River: Gill Gulch NTS: 106D4

Latitude 64°01'38''N Longitude: 135°51'11''W Elevation: 2415 UTM: 458250E,7100175N

Orientation: 158° ⟷ 338° upstream Geomorphic landform: Periglacial Fan



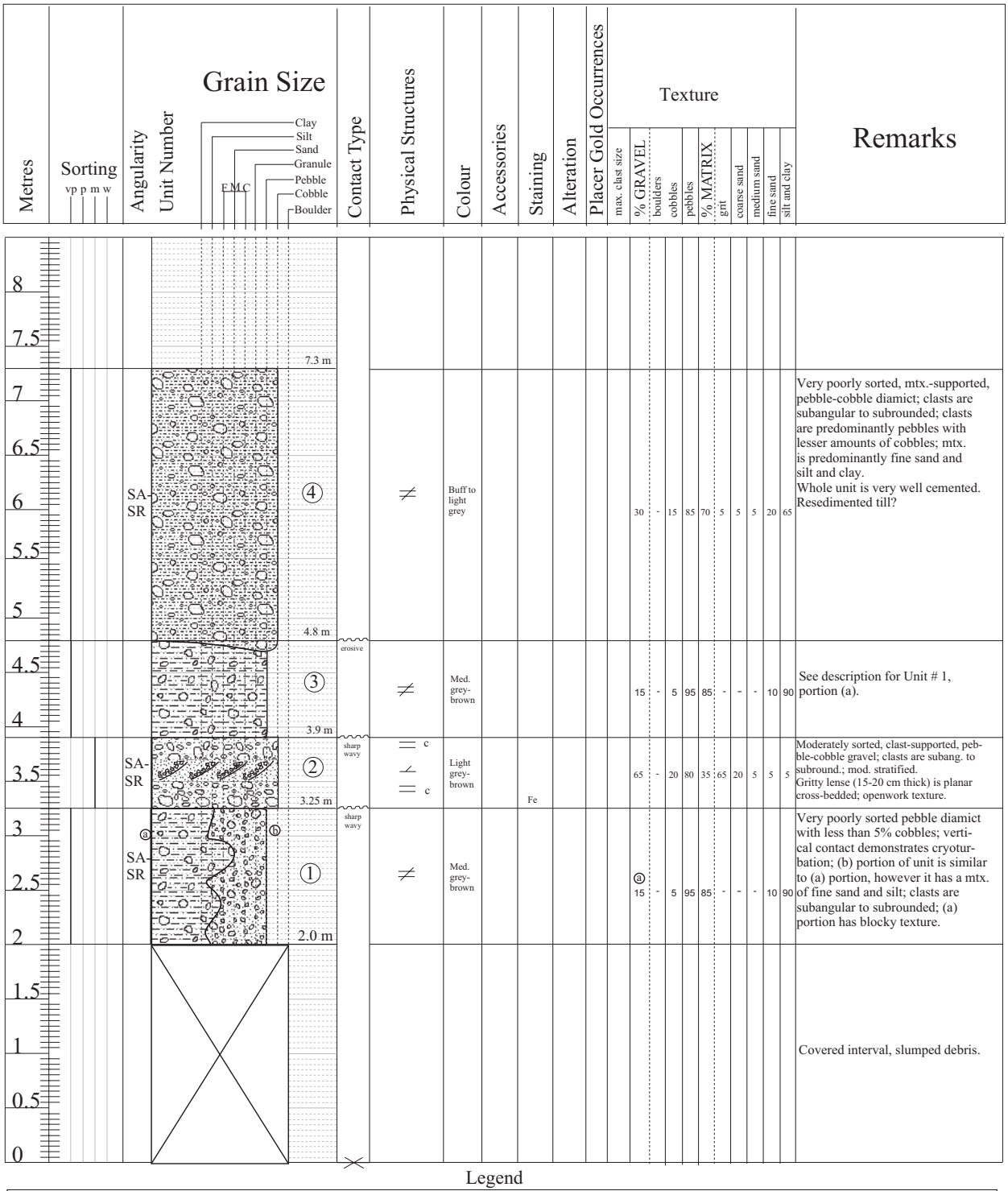
Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics

Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 20/08/97 Section number: LW-97-15 Measured by: LW/LM Creek or River: Haggart Creek NTS: 106D4
Latitude 64°01'01''N Longitude: 135°50'53''W Elevation: 2520 UTM: 458525E,7099100N
Orientation: 278° ⟷ 098° Geomorphic landform: Alluvial Fan/Colluvial Apron



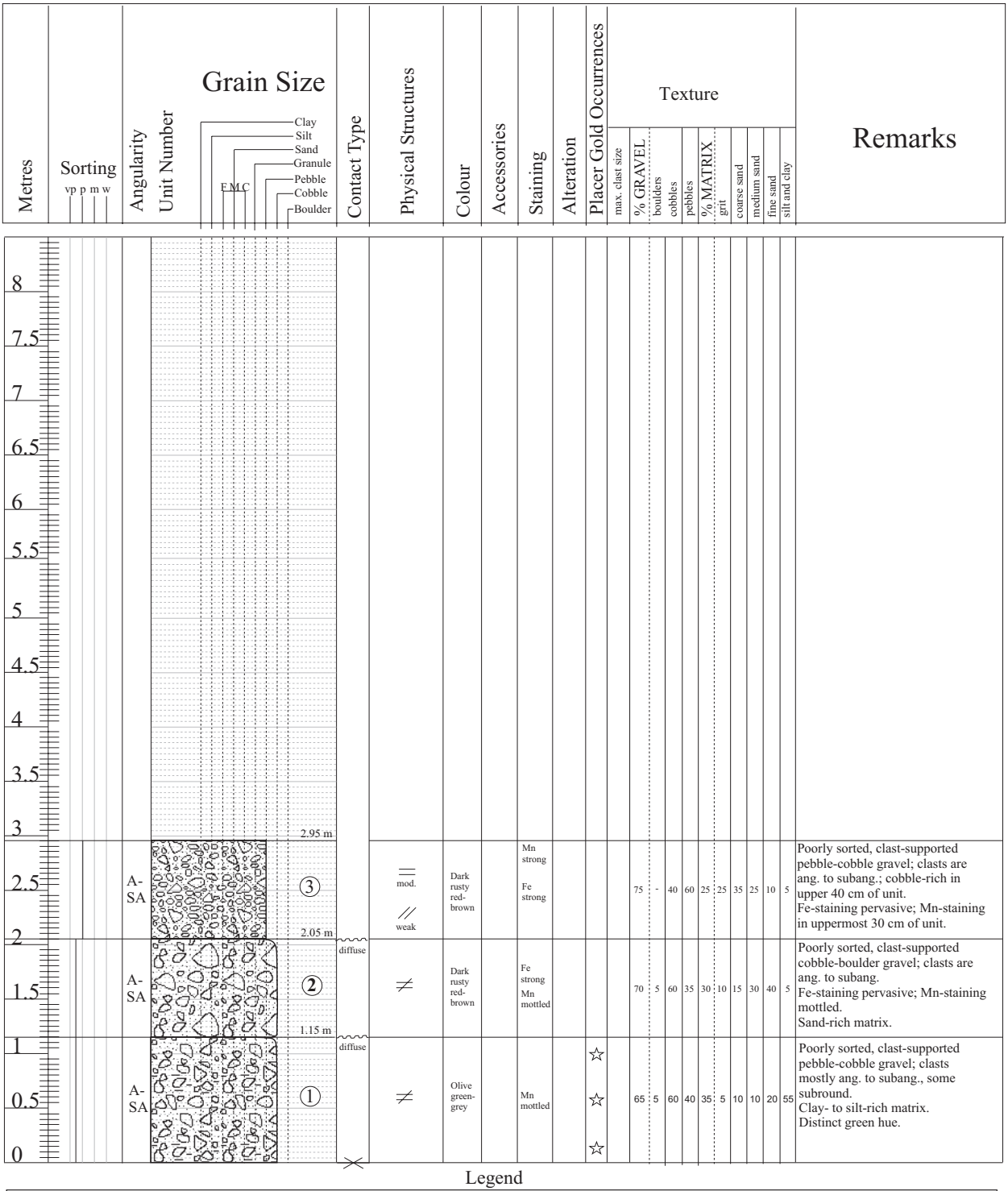
Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics
Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds
Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 21/08/97 Section number: LW-97-16 Measured by: LW/LM Creek or River: Fisher Gulch NTS: 106D4

Latitude 64°02'24''N Longitude: 135°52'04''W Elevation: 2800 UTM: 457525E,7101625N

Orientation: 144° ⟷ 324° upstream Geomorphic landform: Gulch gravel



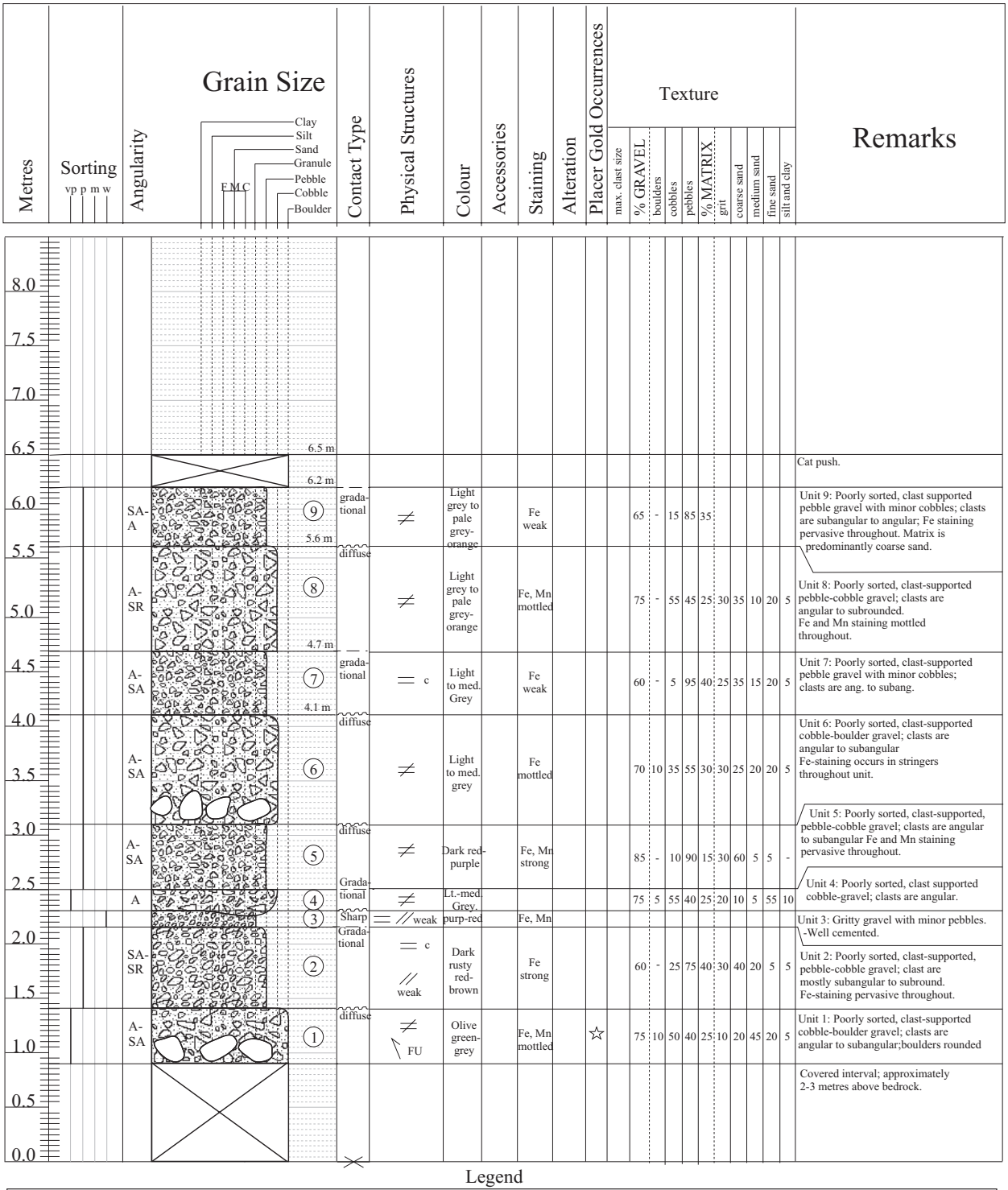
Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics

Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 21/08/97 Section number: LW-97-17 Measured by: LW/LM Creek or River: Fisher Gulch NTS: 106D4
Latitude: 64°02'23"N Longitude: 135°52'09"W Elevation: 2825 UTM: 457450E,7101600N
Orientation: 061° ⟷ 341° upstream Geomorphic landform: Gulch gravel



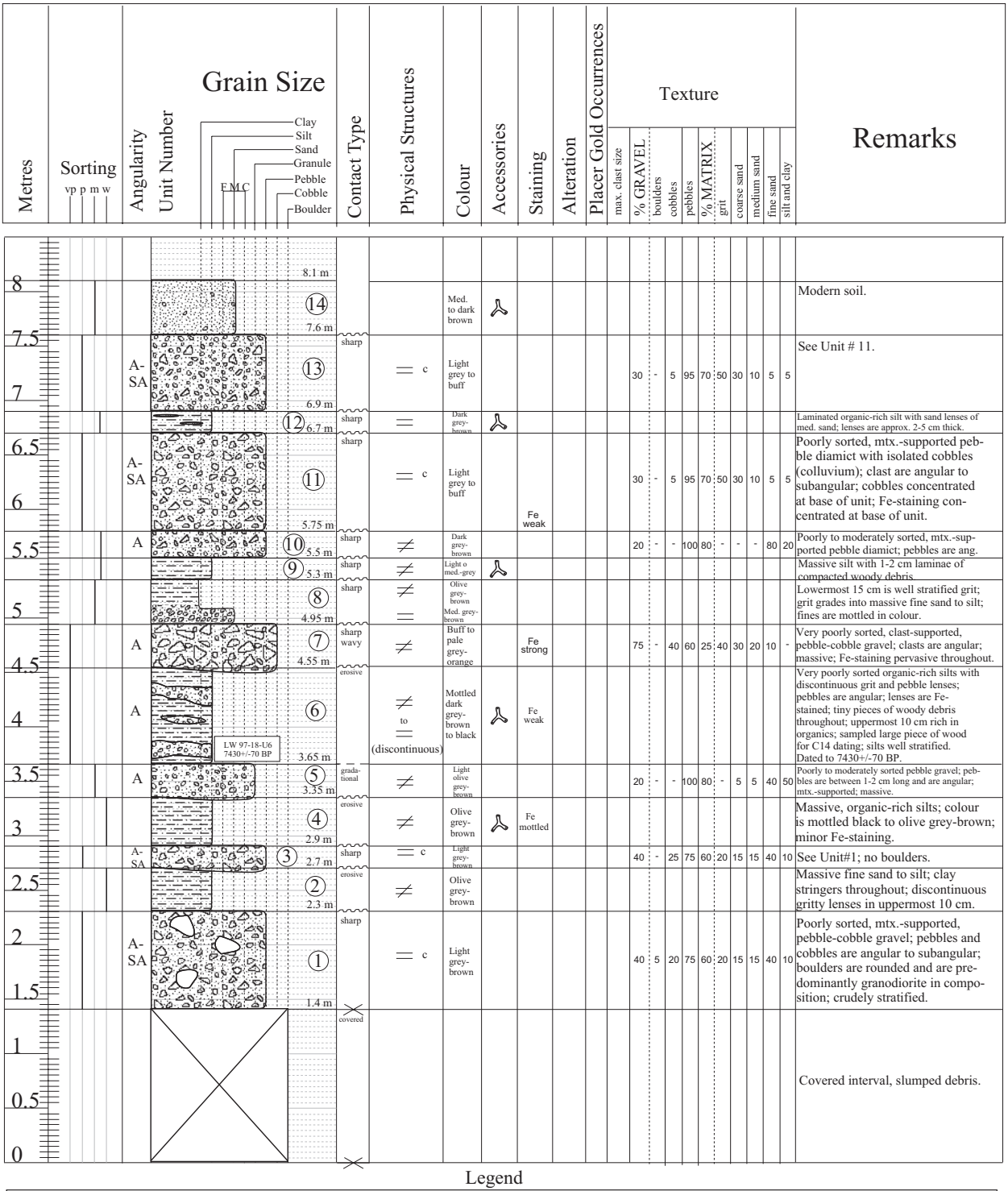
Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics
Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds
Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 22/08/97 Section number: LW-97-18 Measured by: LW/LM Creek or River: Dublin Gulch NTS: 106D4

Latitude 64°02'08''N Longitude: 135°49'33''W Elevation: 2890 UTM: 459600E,7101150N

Orientation: 052° ⟷ 232° upstream Geomorphic landform: Alluvial Plain/Colluvial Apron



Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics

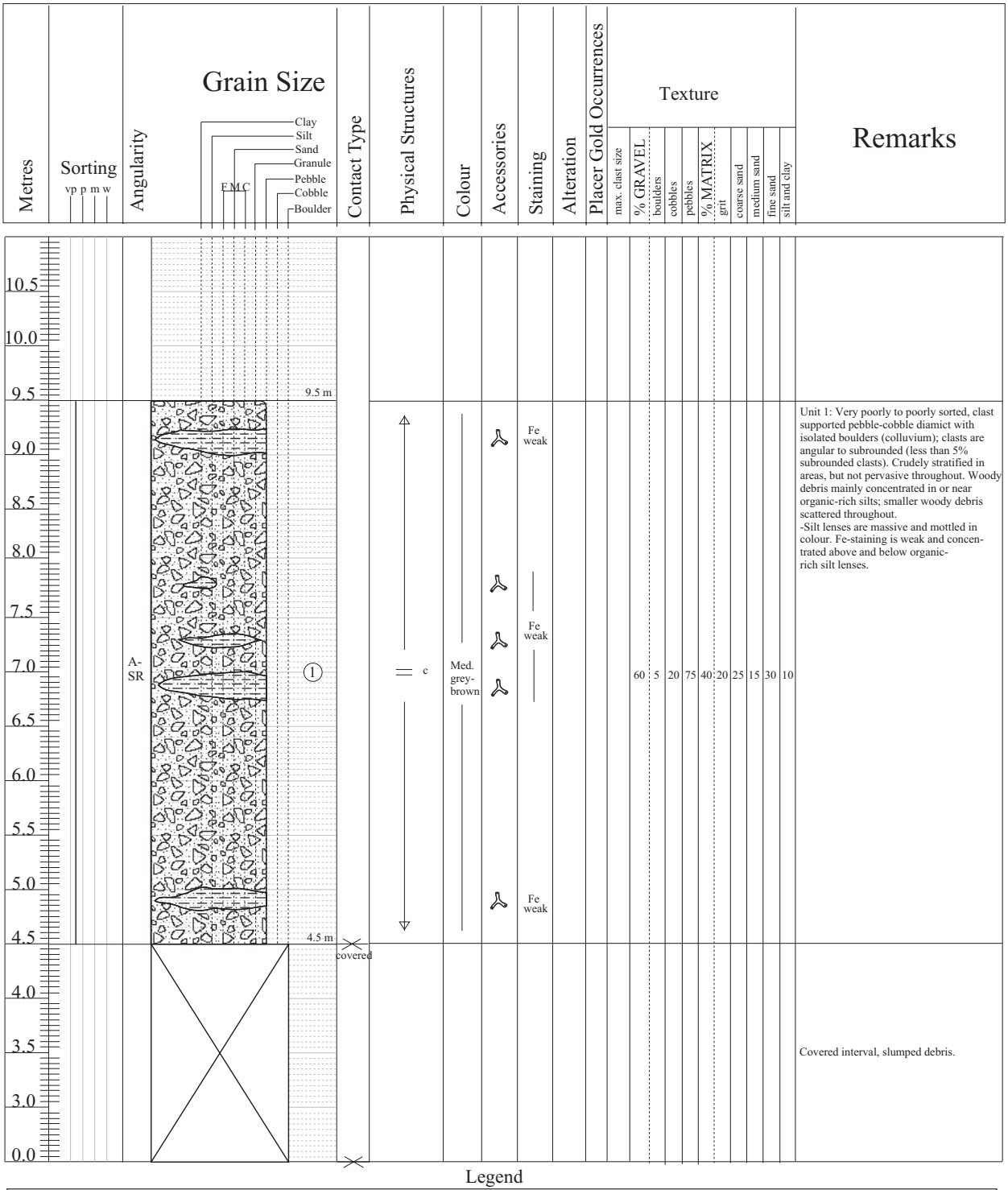
Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 26/08/97 Section number: LW-97-19 Measured by: LW/LM Creek or River: Dublin Gulch NTS: 106D4

Latitude: 64°02'04''N Longitude: 135°49'15''W Elevation: 2975 UTM: 459850E,7101000N

Orientation: 222° ⟷ 042° upstream Geomorphic landform: Colluvial Apron



Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics

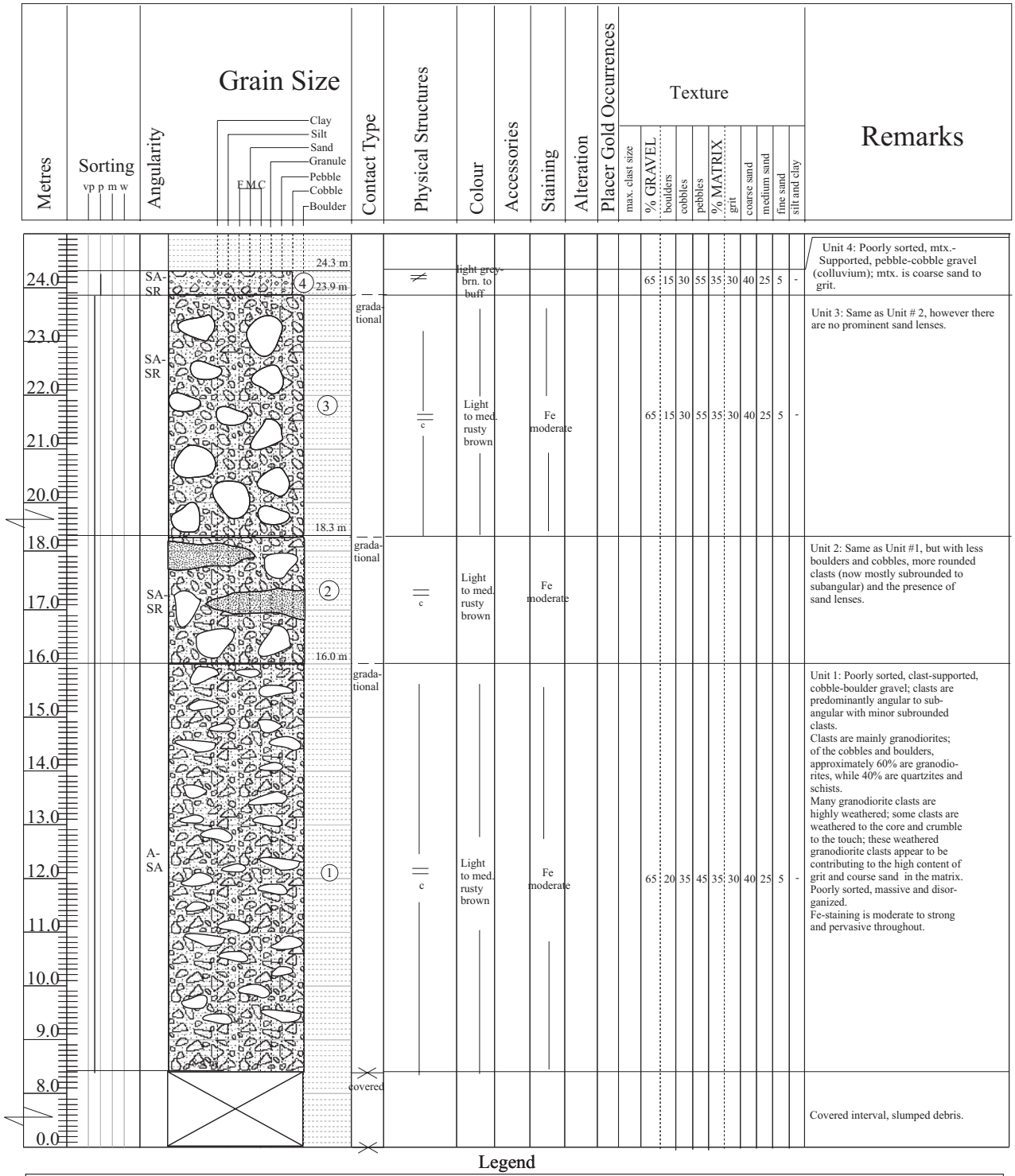
Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 27/08/97 Section number: LW-97-20 Measured by: LW/LM Creek or River: Dublin Gulch NTS: 106D4

Latitude: 64°02'00''N Longitude: 135°49'41''W Elevation: 2825 UTM: 459500E,7100875N

Orientation: 244° ⟷ 064° upstream Geomorphic landform: Gulch Gravel/Colluvial Apron



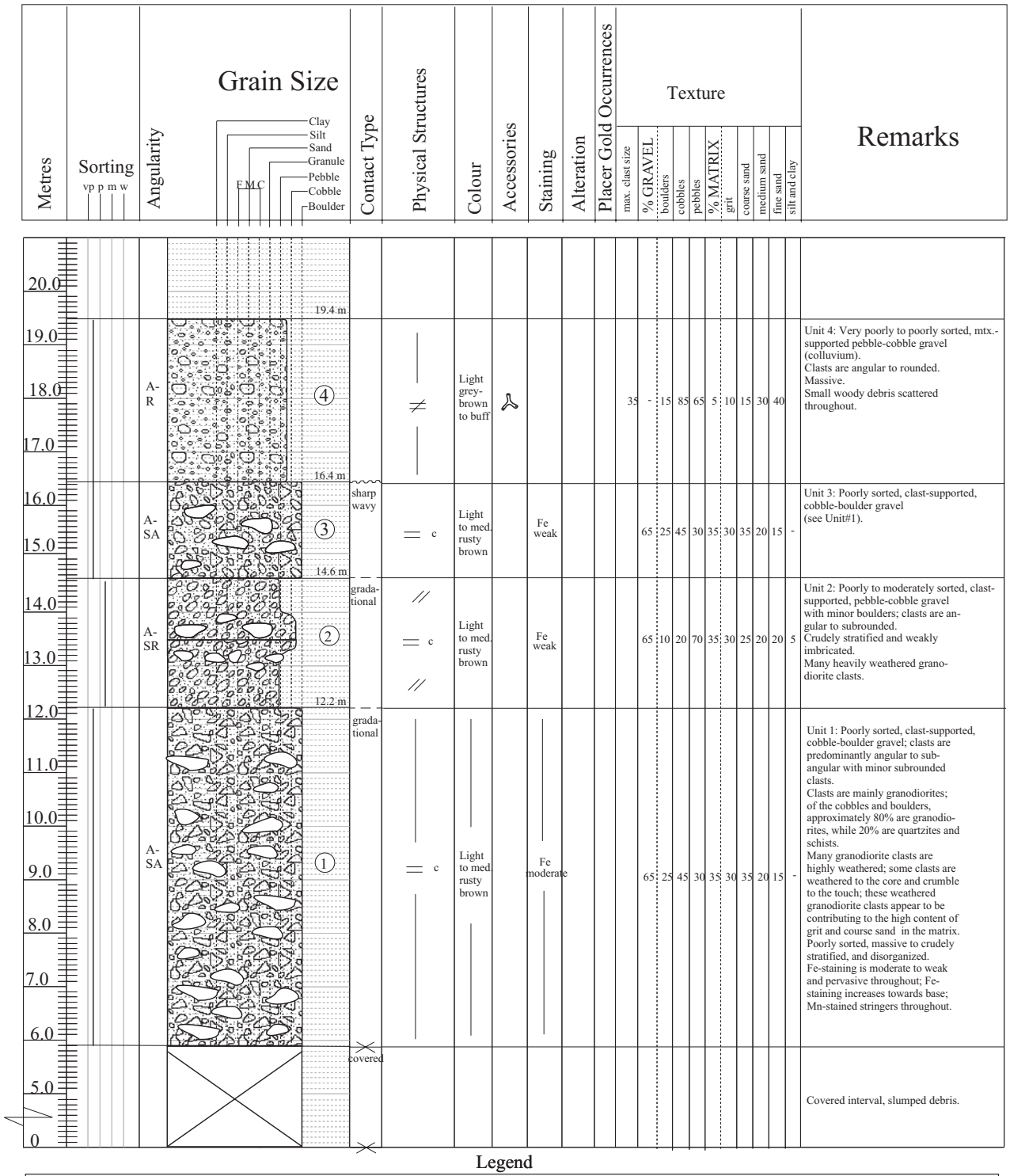
Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics

Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

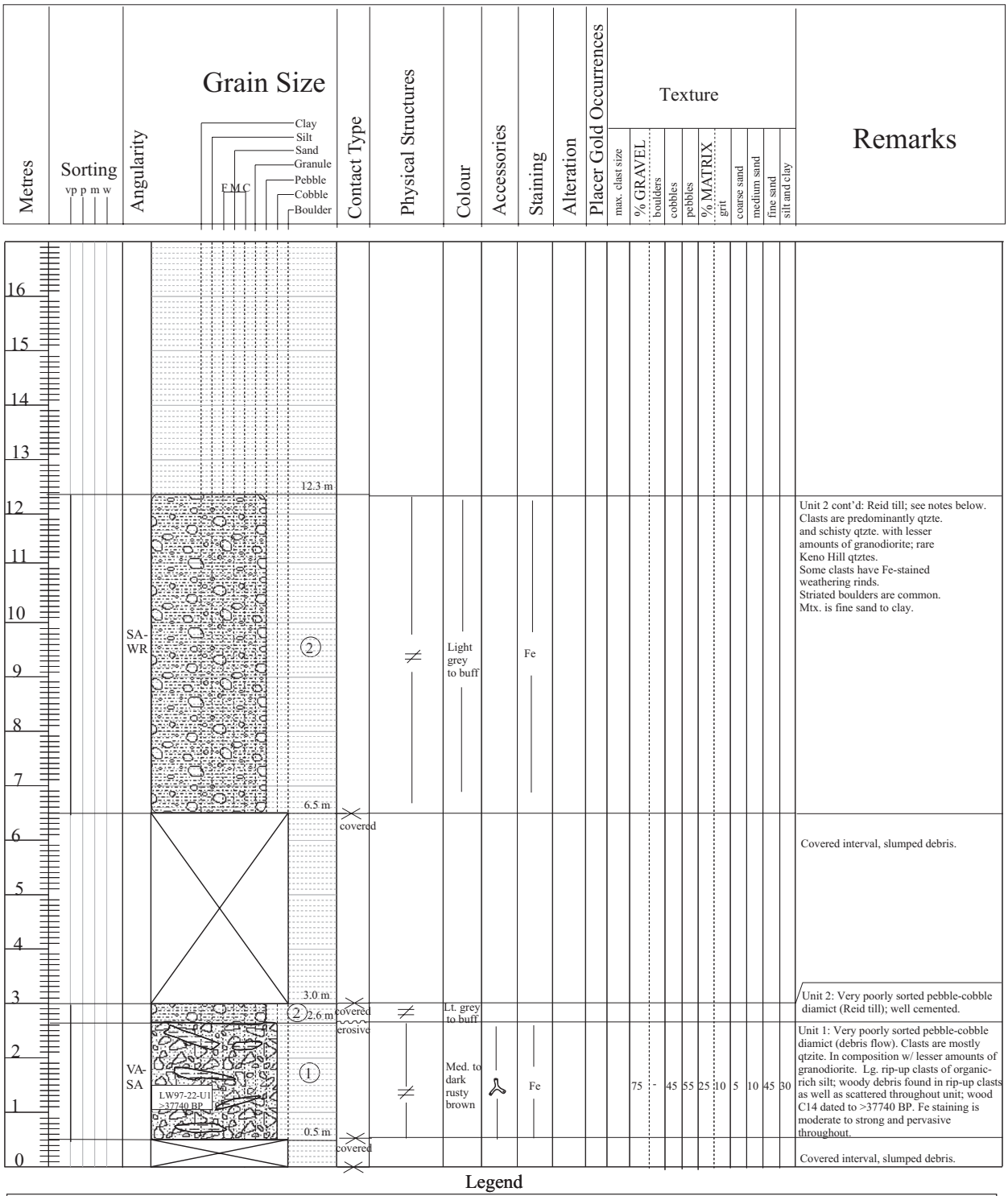
Date: 27/08/97 Section number: LW-97-21 Measured by: LW/LM Creek or River: Dublin Gulch NTS: 106D4
Latitude: 64°02'00''N Longitude: 135°49'47''W Elevation: 2790 UTM: 459400E,7100875N
Orientation: 244° ⟷ 064° (upstream) Geomorphic landform: Gulch Gravel/Colluvial Apron



Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics
Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds
Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

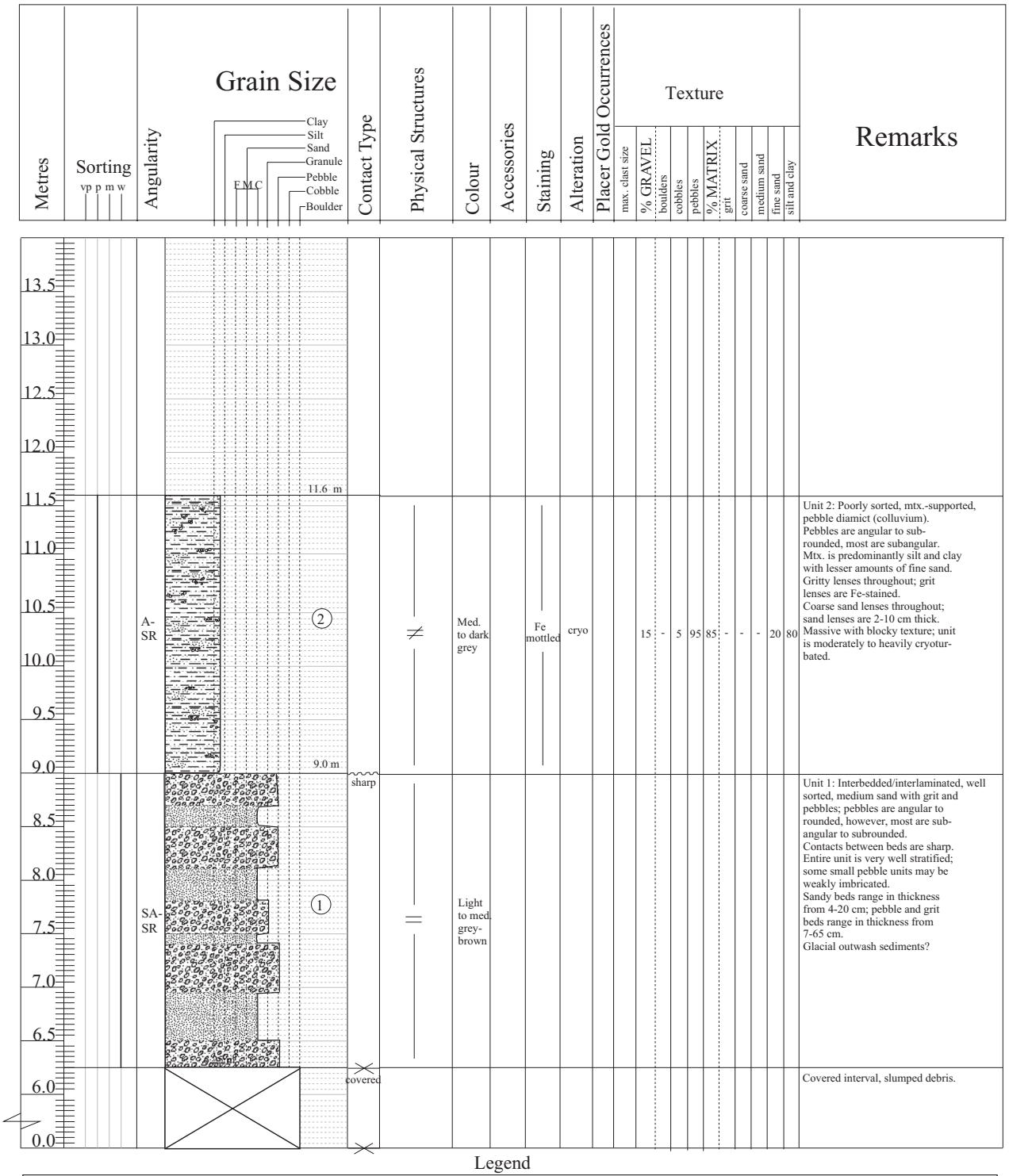
Date: 28/08/97 Section number: LW-97-22 Measured by: LW/LM Creek or River: Dublin Gulch NTS: 106D4
Latitude: 64°01'52''N Longitude: 135°50'11''W Elevation: 2750 ft UTM: 459100E,7100675N
Orientation: 242° ⟷ 062° (upstream) Geomorphic landform: Debris Flow/Reid Till



Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics
Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds
Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 01/09/97 Section number: LW-97-23 Measured by: LW/LM Creek or River: Dublin Gulch NTS: 106D4
Latitude: 64°01'50''N Longitude: 135°51'26''W Elevation: 2720 UTM: 458875E,7100625N
Orientation: 242° ⟷ 062° upstream Geomorphic landform: Galciofuvial Outwash/Colluvial Apron



Legend

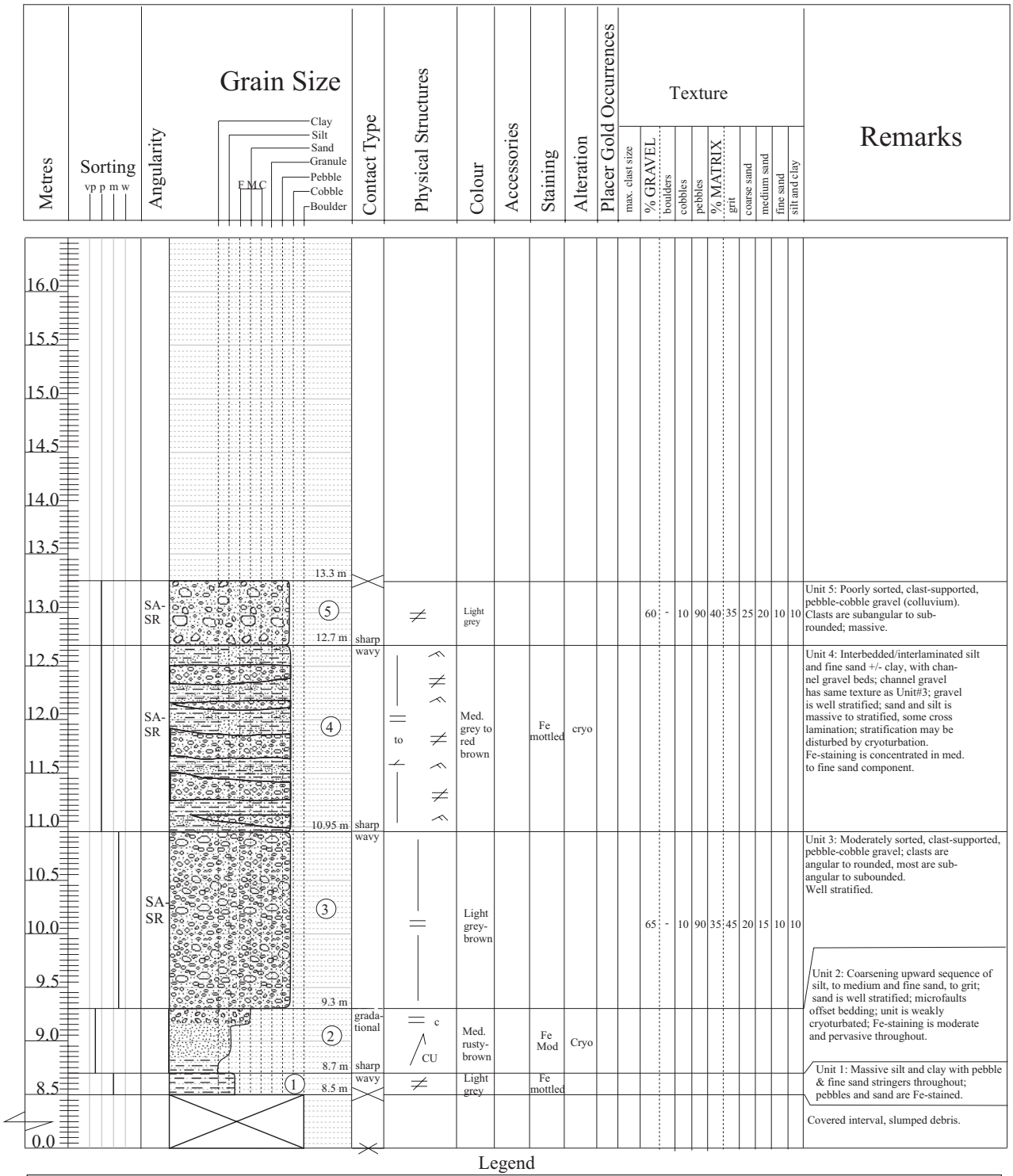
Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics
Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 05/09/97 Section number: LW-97-24 Measured by: LW/LM Creek or River: Haggart Creek NTS: 106D4

Latitude: 64°00'32''N Longitude: 135°51'11''W Elevation: 2430 UTM: 458250E,7098225N

Orientation: 066° ⟷ 246° Geomorphic landform: Alluvial Fan/Colluvial Apron



Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics

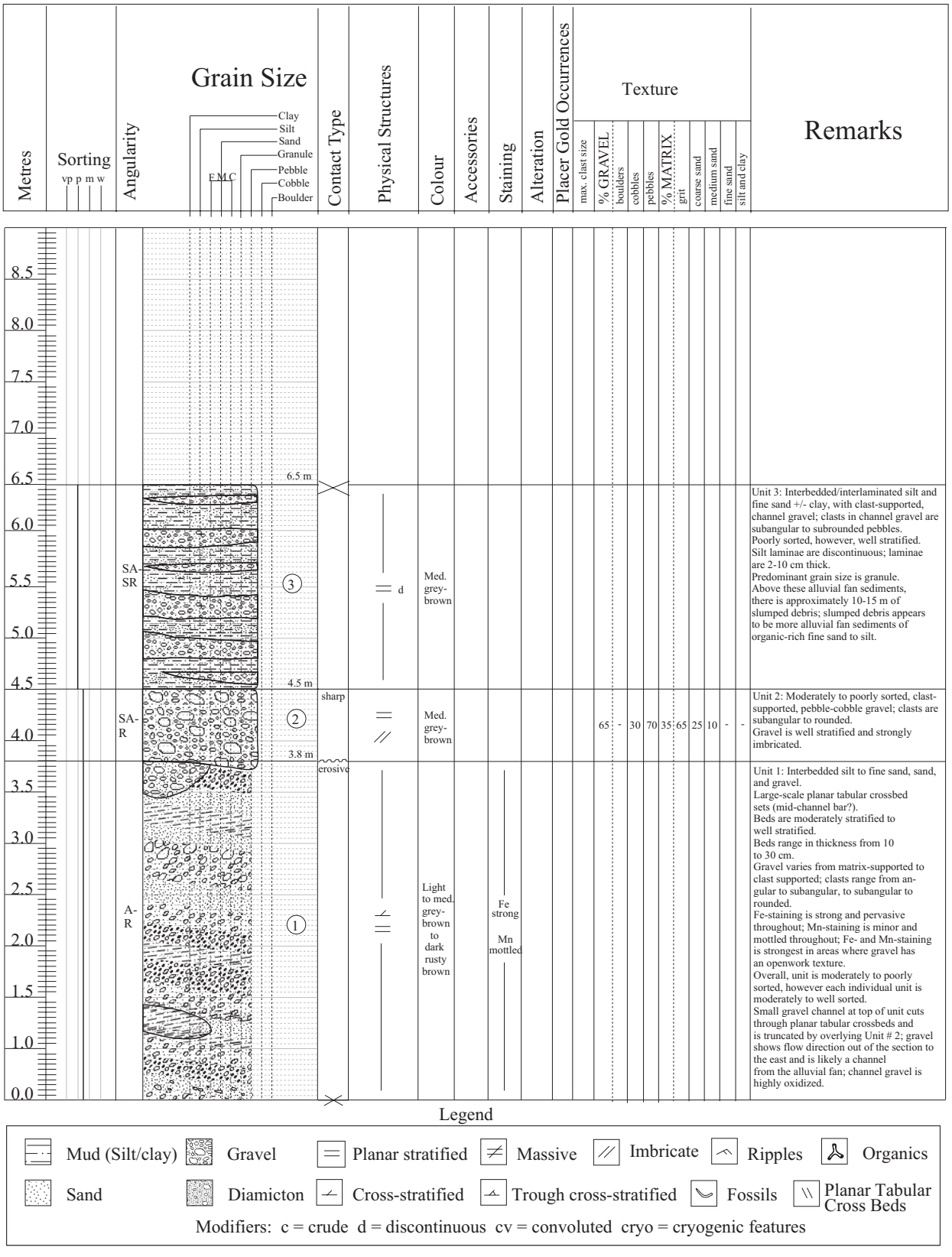
Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 05/09/97 Section number: LW-97-25 Measured by: LW/LM Creek or River: Haggart Creek NTS: 106D4

Latitude: 64°00'32''N Longitude: 135°51'11''W Elevation: 2420 ft UTM: 458250E,7098225N

Orientation: 170° ⟷ 350° (upstream) Geomorphic landform: Alluvial Plain/Alluvial Fan



Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics

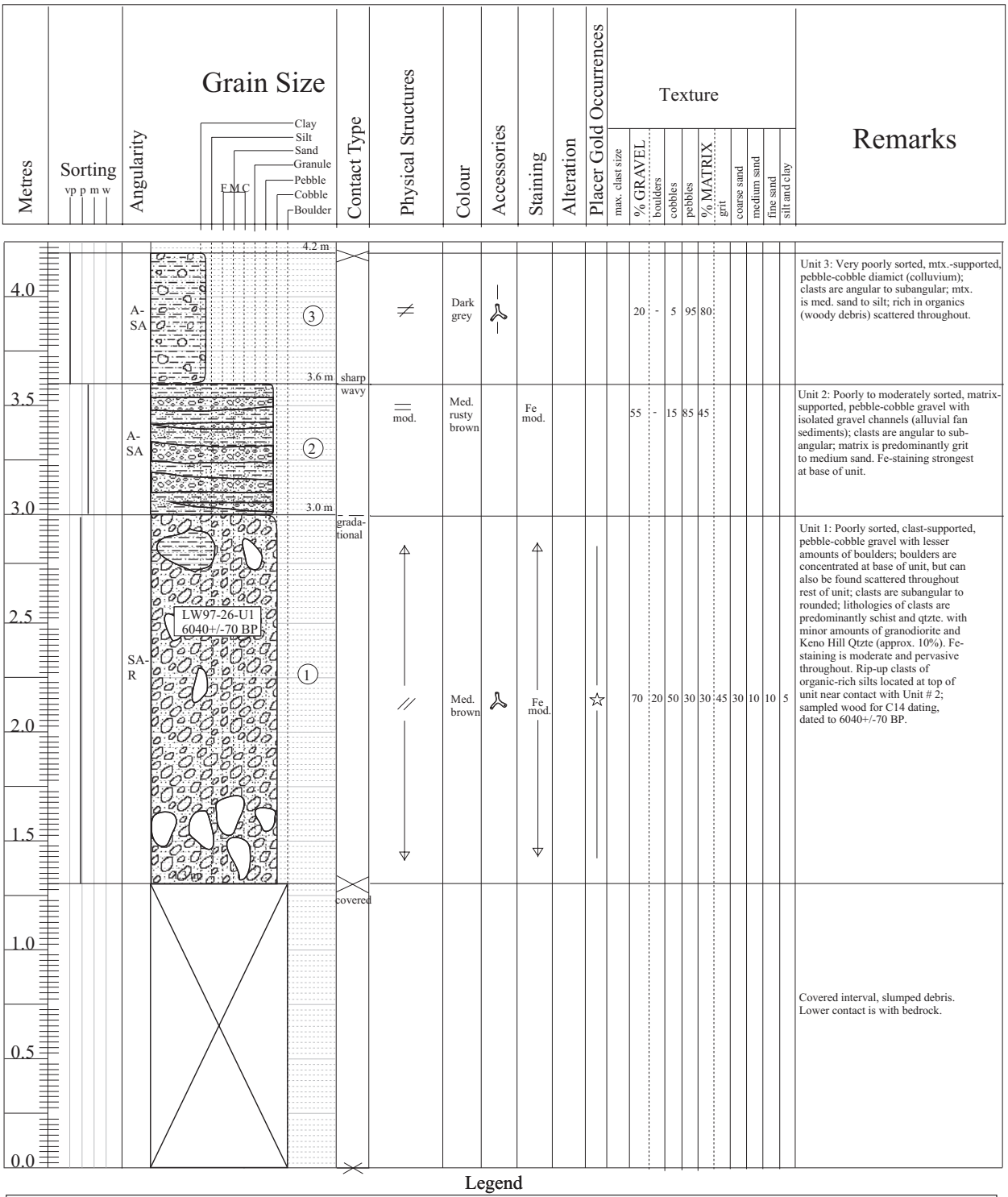
Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 09/05/97 Section number: LW-97-26 Measured by: LW/LM Creek or River: Haggart Creek NTS: 106D4

Latitude: 64°00'26''N Longitude: 135°51'11''W Elevation: 2435 ft UTM: 458250E,7098050N

Orientation: 165° ⟷ 345° upstream Geomorphic landform: Alluvial Plain/Alluvial Fan/Colluvial Apron



Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics

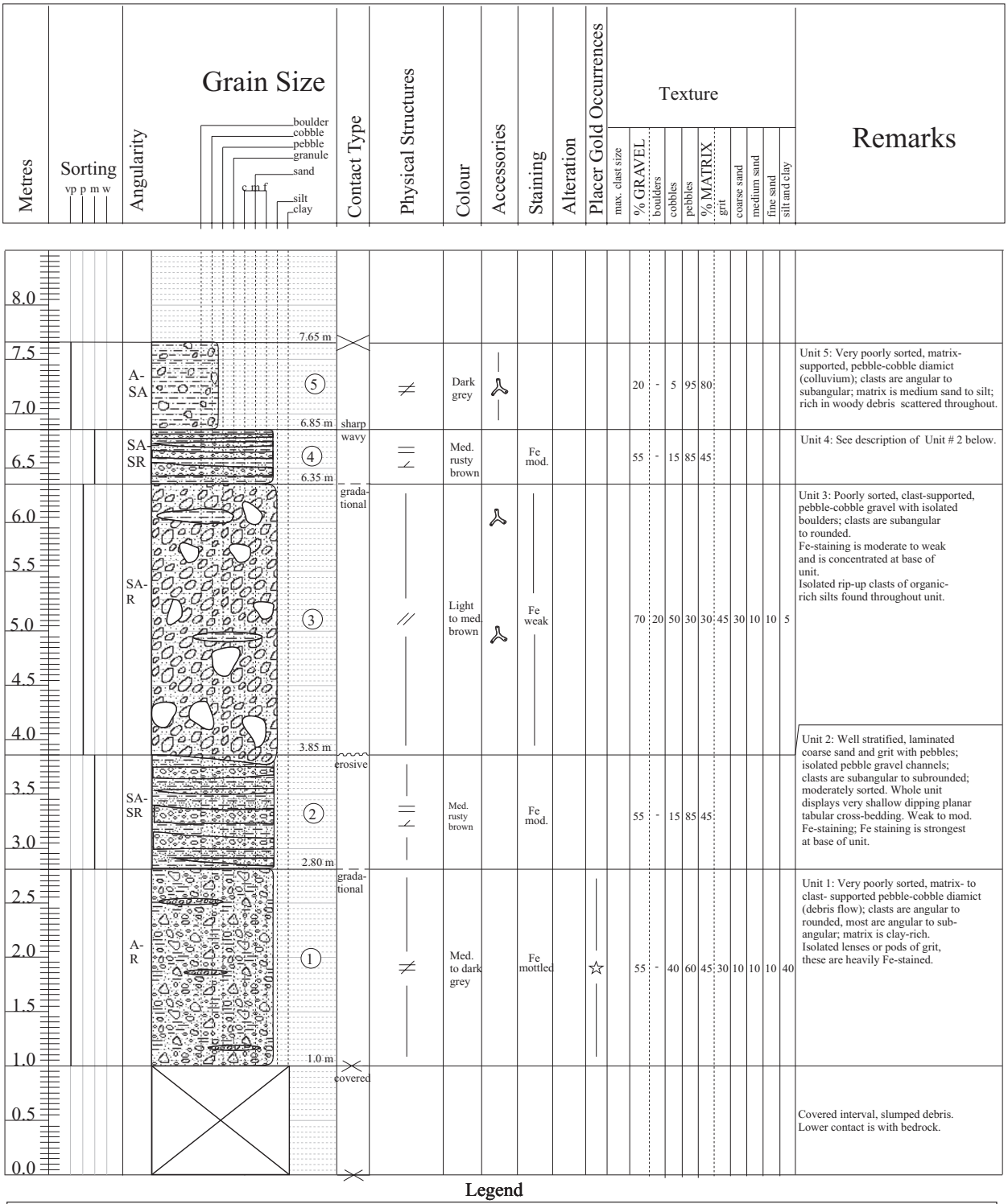
Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 09/07/97 Section number: LW-97-27 Measured by: LW/LM Creek or River: Haggart Creek NTS: 106D4

Latitude 64°00'26''N Longitude: 135°51'11''W Elevation: 2400 UTM: 458250E,7098050N

Orientation: 162° ⟷ 342° upstream Geomorphic landform: Alluvial Plain/Alluvial Fan/Colluvial Apron



Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics

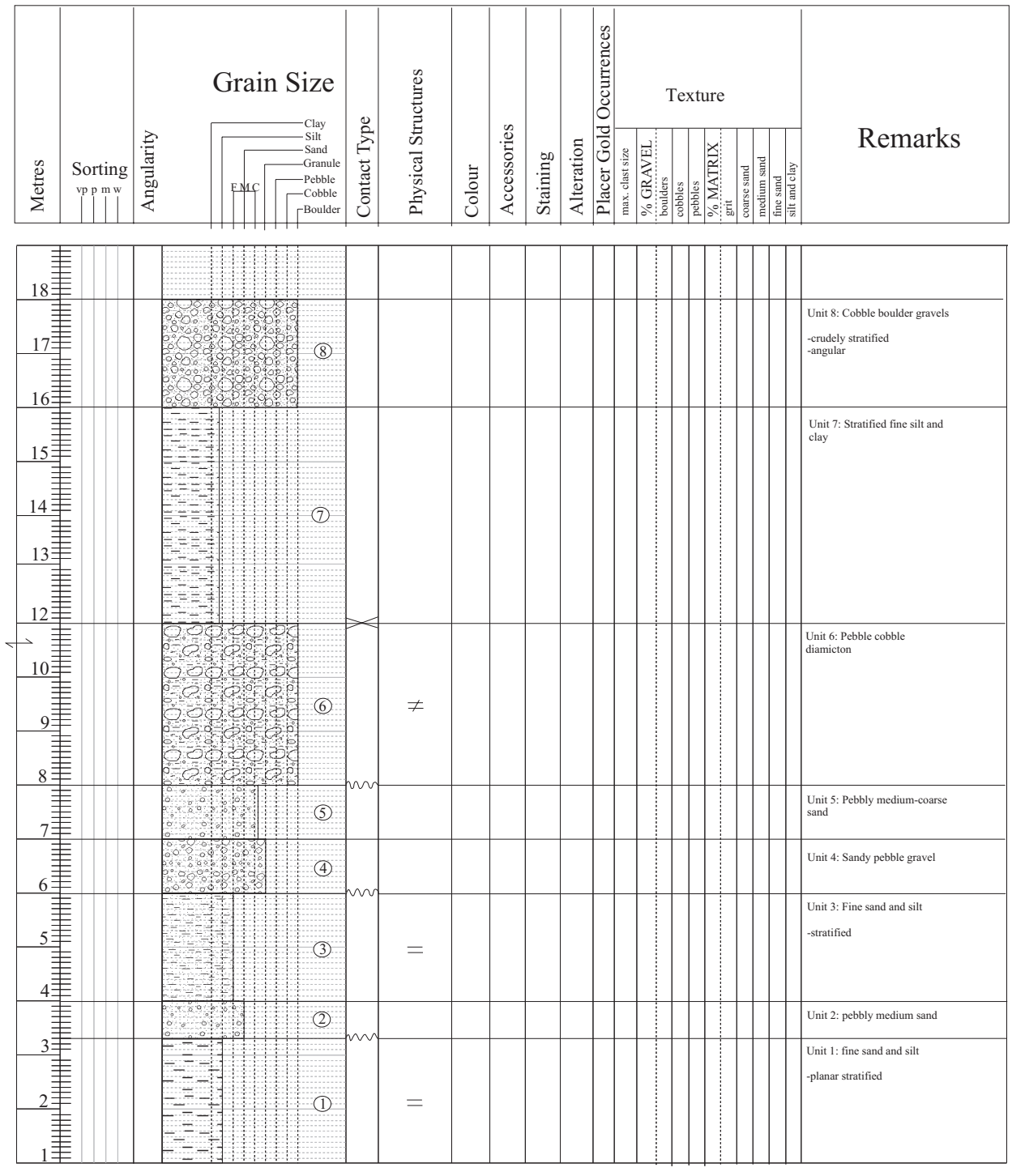
Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 7 /08/ 95 Section number: RH1-95 Measured by: WPL Creek or River: Haggart Creek NTS: 106D4

Latitude: 64°01.03 Longitude: 135°51.18 Elevation: 2540 ft UTM:

Orientation: 300 ⟷ 120 Geomorphic landform: Remnant moraine (terrace)



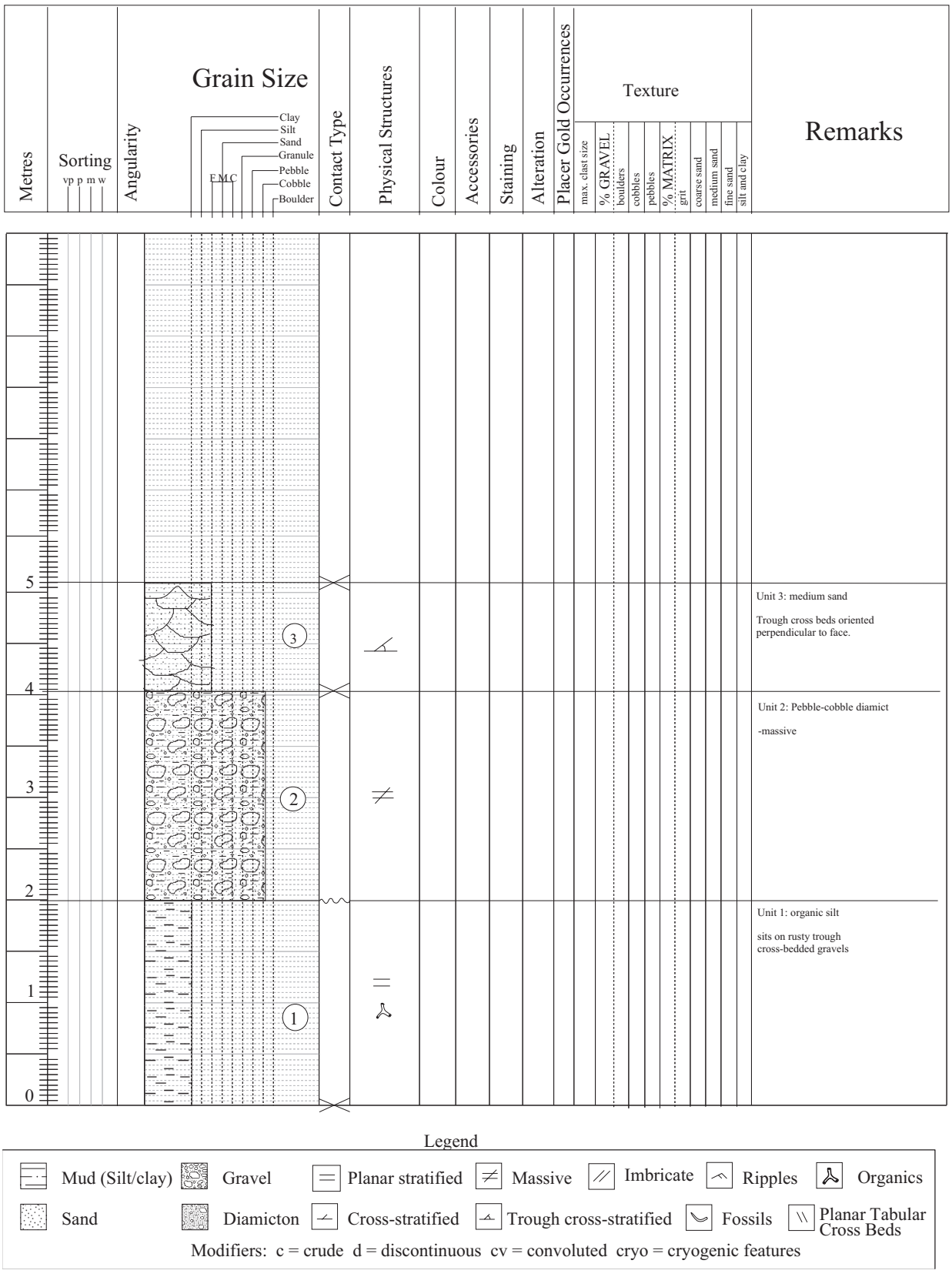
Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics

Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

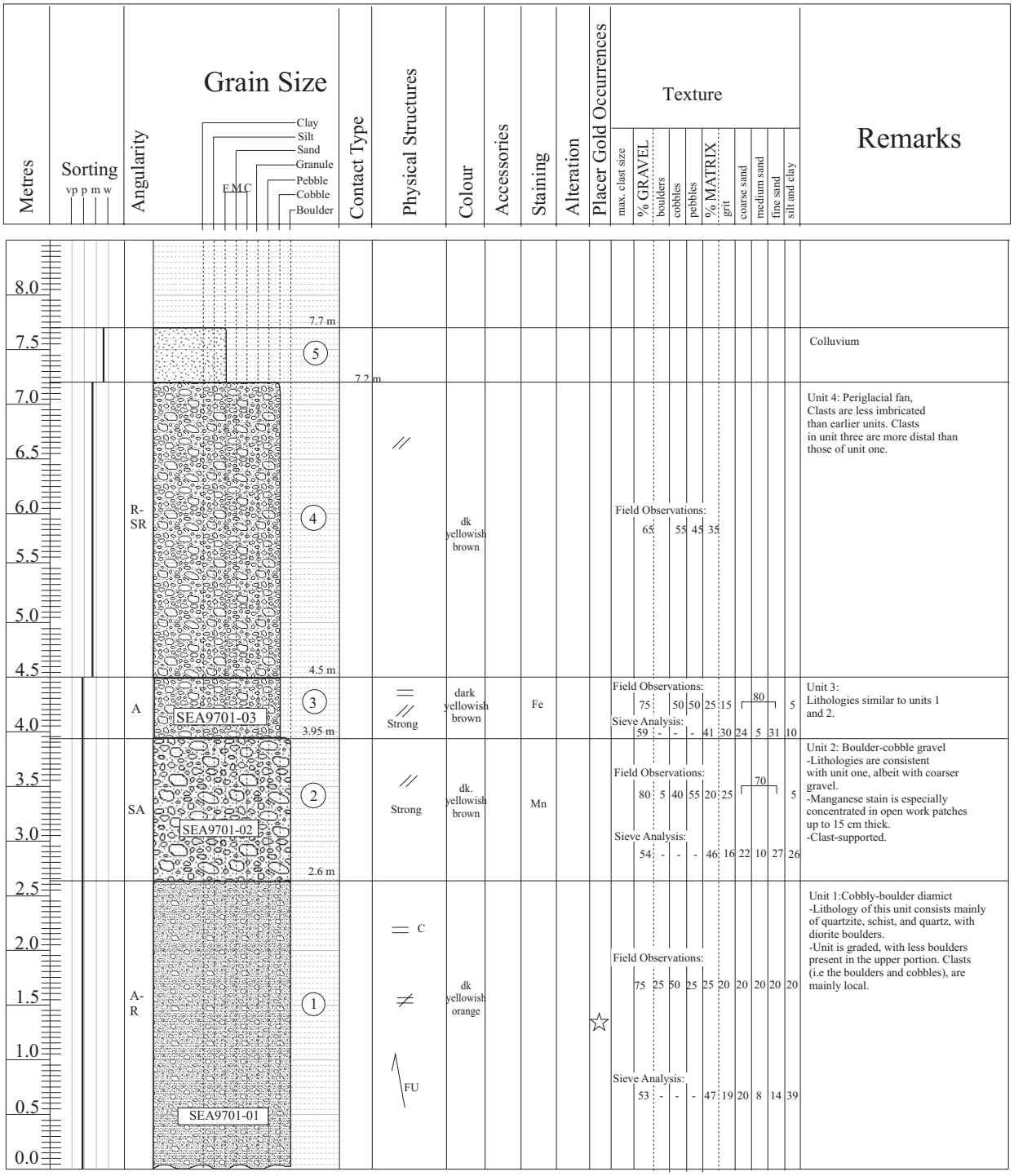
Date: 24/09/95 Section number: RH2-95 Measured by: WPL Creek or River: Haggart Creek NTS:
Latitude: 64°00'.9 N Longitude: 135°51'.06W Elevation: 2530 ft UTM:
Orientation: 252 ⟷ 72 Geomorphic landform:



Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics
Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds
Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

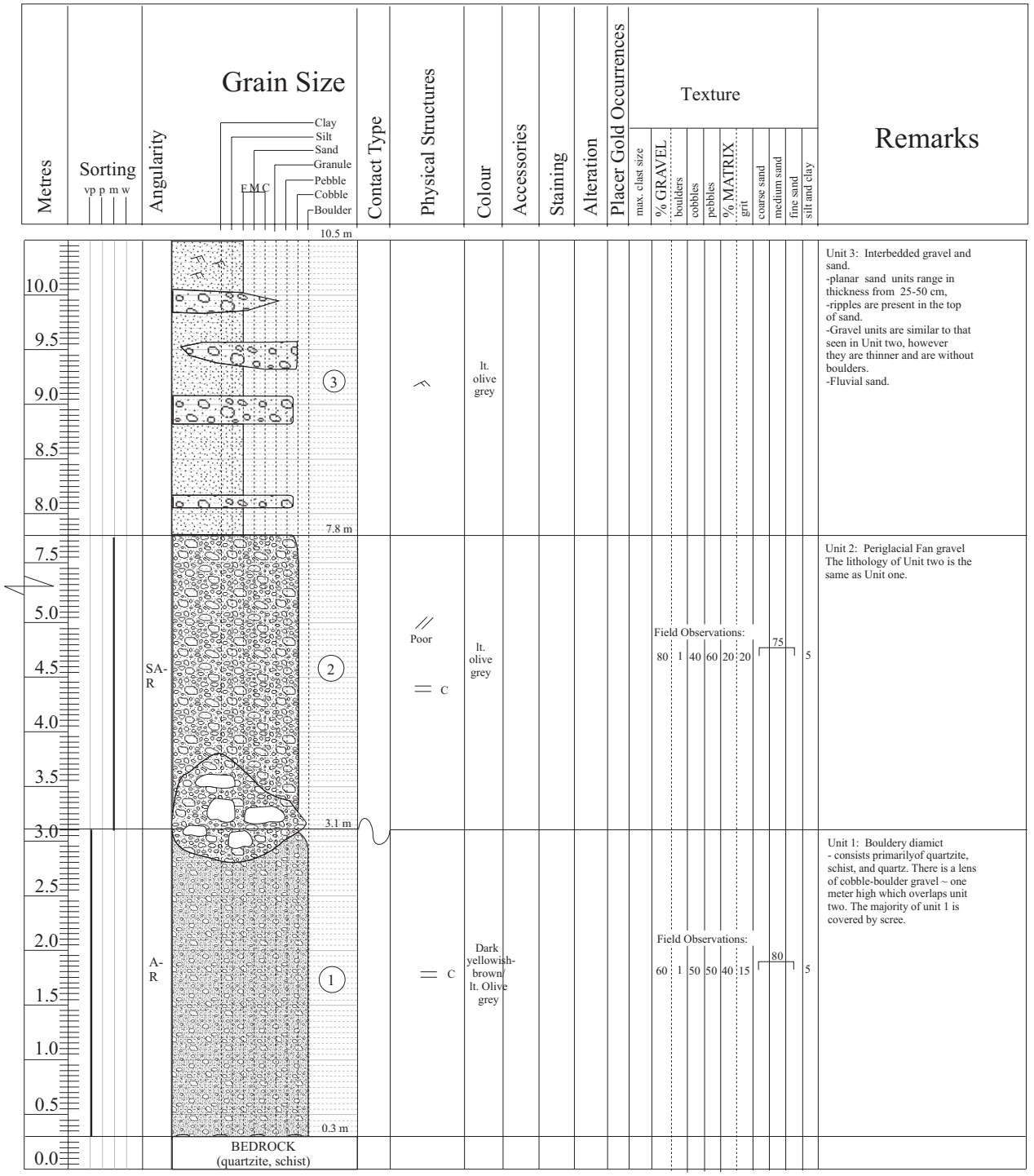
Date: 02/07/97 Section number: SEA9701 Measured by: TA, WL Creek or River: Seattle Creek NTS: 115 P/16
Latitude: 63°49'17 Longitude: 136°04'2.3" Elevation: 2600 ft UTM: N7077354, E0447463
Orientation: 170° ⟷ 350° Geomorphic landform: Alluvial Fan



Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics
Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds
Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 03/07/97 Section number: SEA9702 Measured by: TA, WL Creek or River: Seattle Creek NTS: 115 P/16
Latitude: 63°49'17" Longitude: 136°04'2.3" Elevation: 2550 ft UTM: 0447463E, 7077354N
Orientation: 170° ⟷ 350° Geomorphic landform: Alluvial Fan



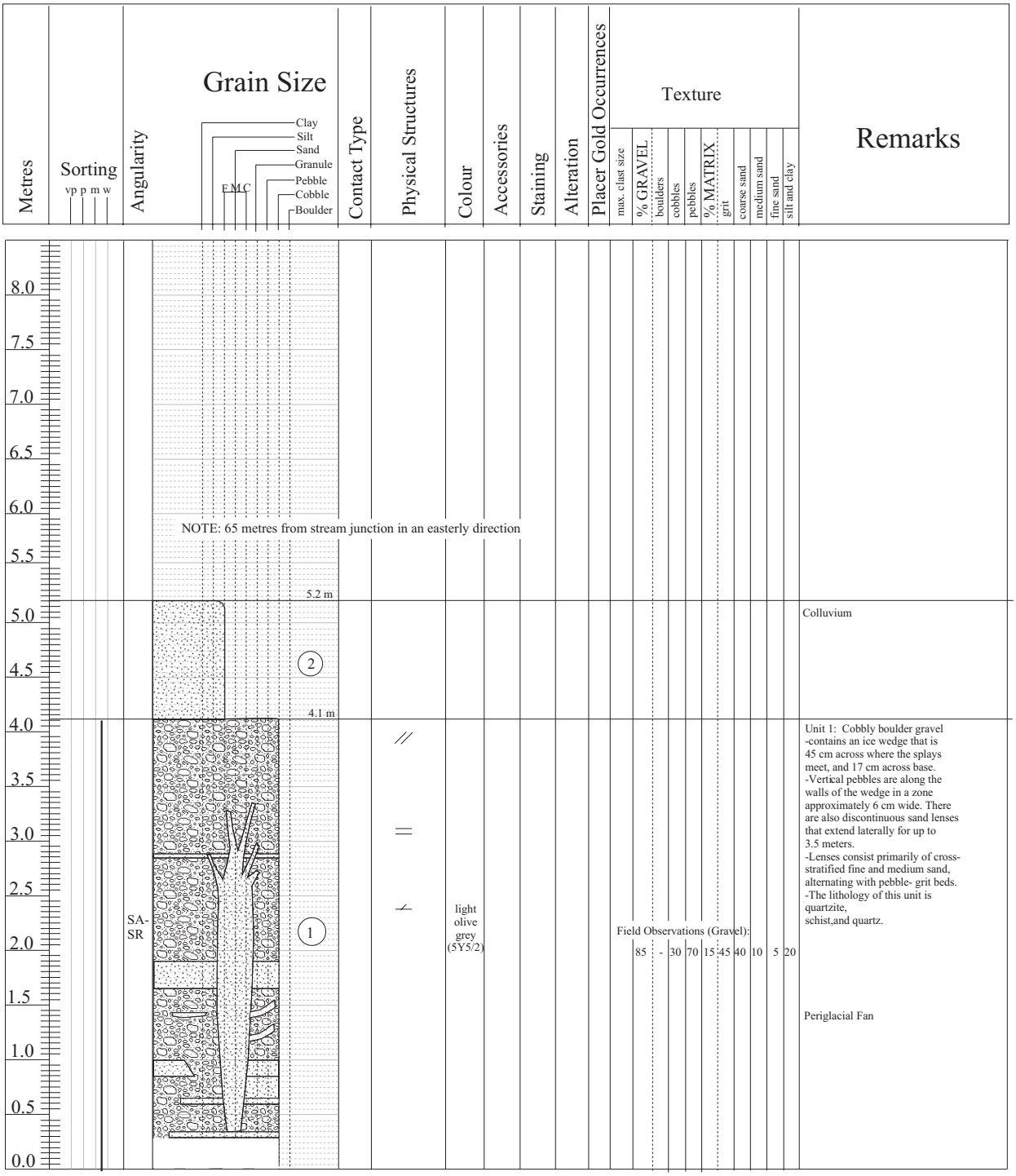
Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics
Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds
Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 04/07/97 Section number: SEA9703 Measured by: TA, WL Creek or River: Seattle Creek NTS: 115 P/16

Latitude: 63°49'17 Longitude: 136°04'02 Elevation: 2550 ft UTM: N7077354, E0447463

Orientation: 250° ⟷ 070° Geomorphic landform: Periglacial Alluvial Fan



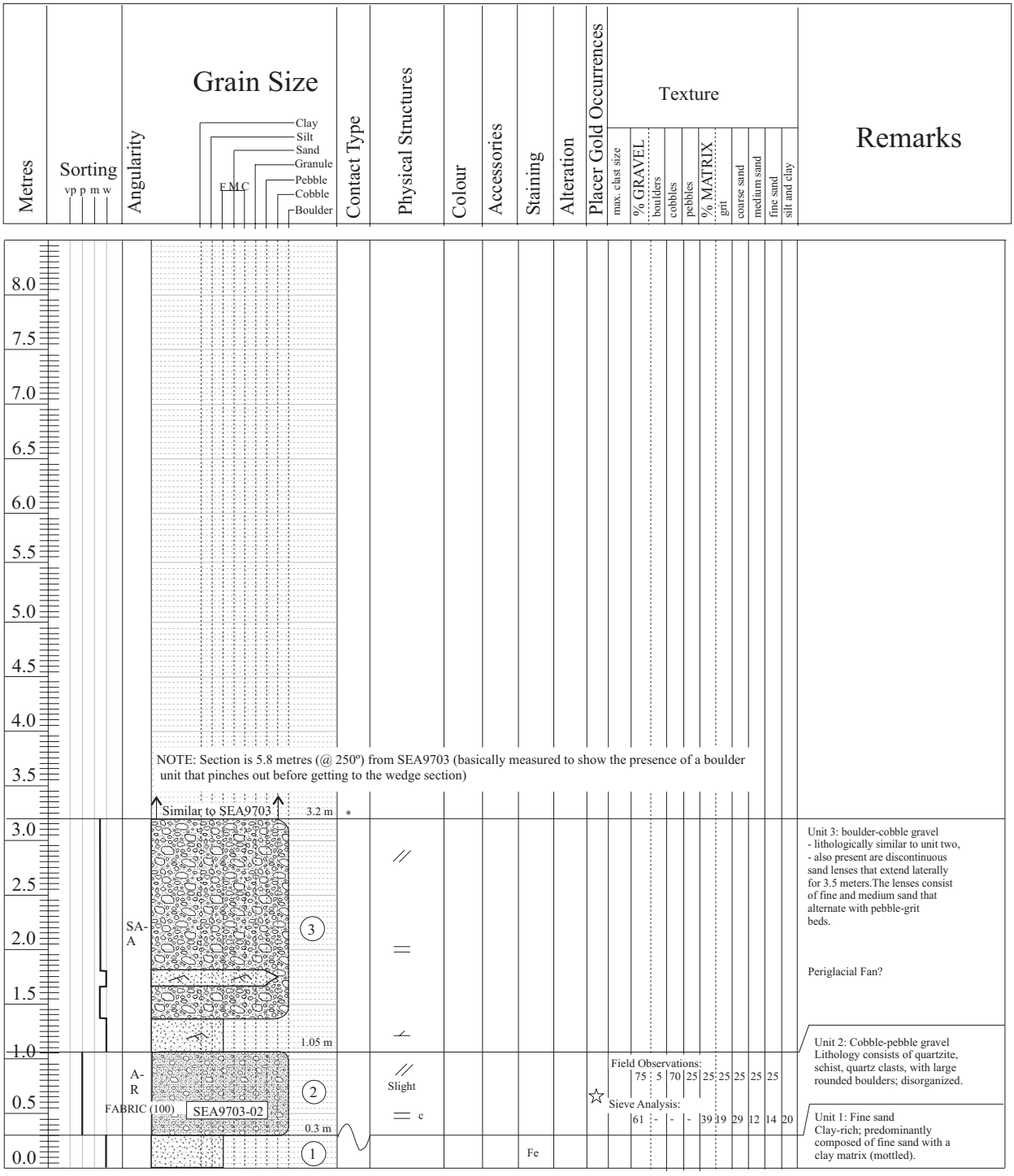
Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics

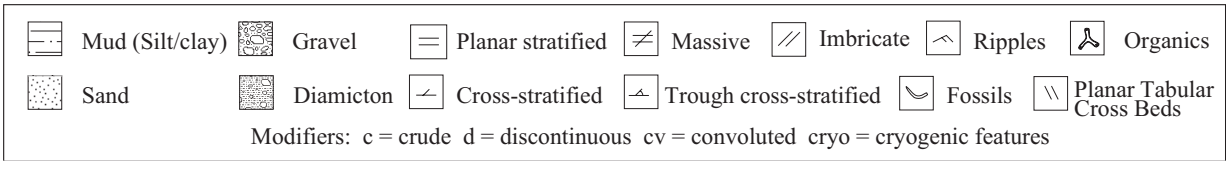
Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 03/07/97 Section number: SEA9704 Measured by: TA, WL Creek or River: Seattle Creek NTS: 115 P/16
Latitude: 63º49'17" Longitude: 136º04'02" Elevation: UTM: N7077354, E0447463
Orientation: 250º ⟷ 070º Geomorphic landform: Periglacial Alluvial Fan



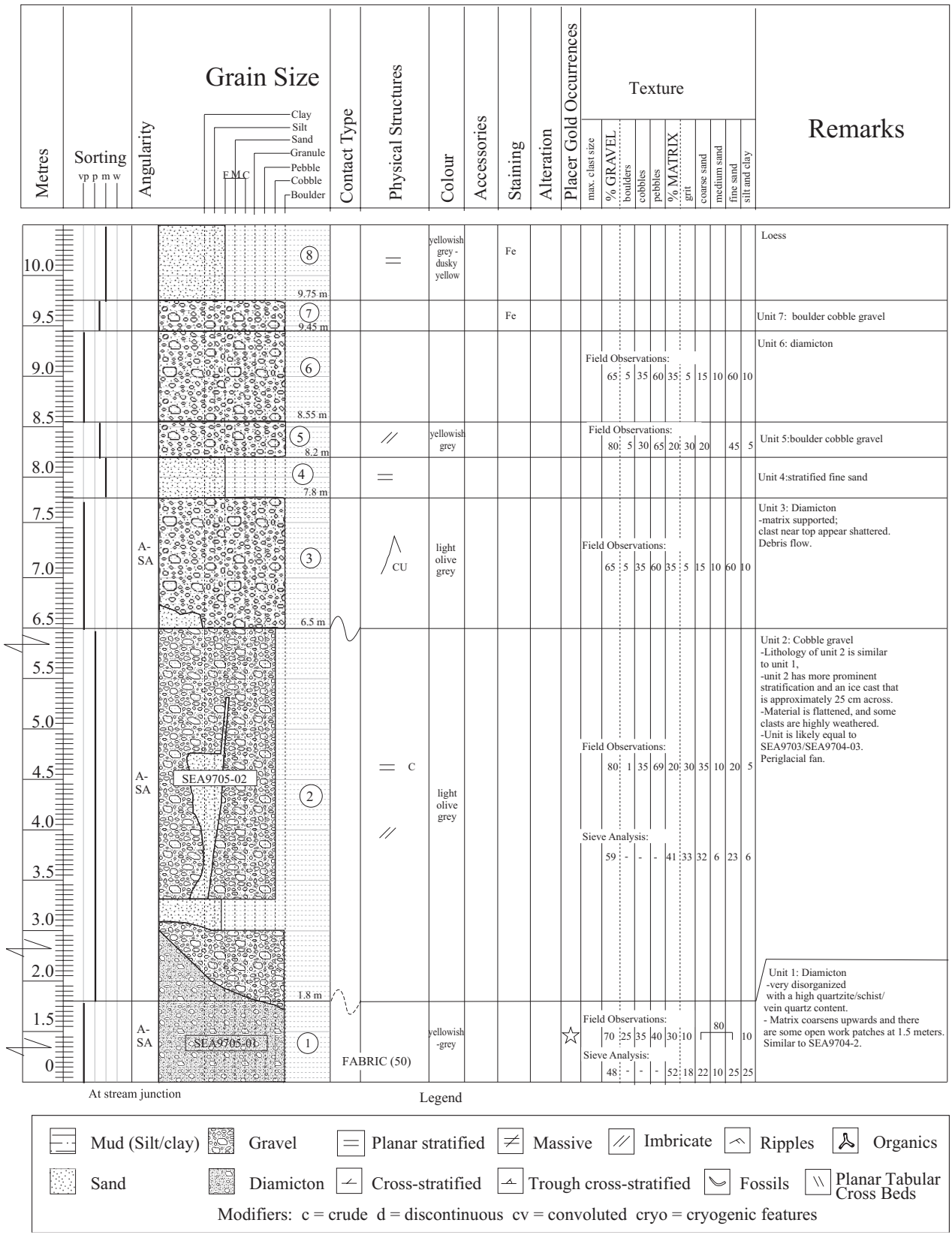
Legend



Date: 04/07/97 Section number: SEA9705 Measured by: TA, WL Creek or River: Seattle Creek NTS: 115 P/16

Latitude: 63º49'23.2" Longitude: 136º04'0.4" Elevation: 2550 ft UTM: E0447491, N7077546

Orientation: 235º ⟷ 055º Geomorphic landform: Periglacial Alluvial Fan



At stream junction

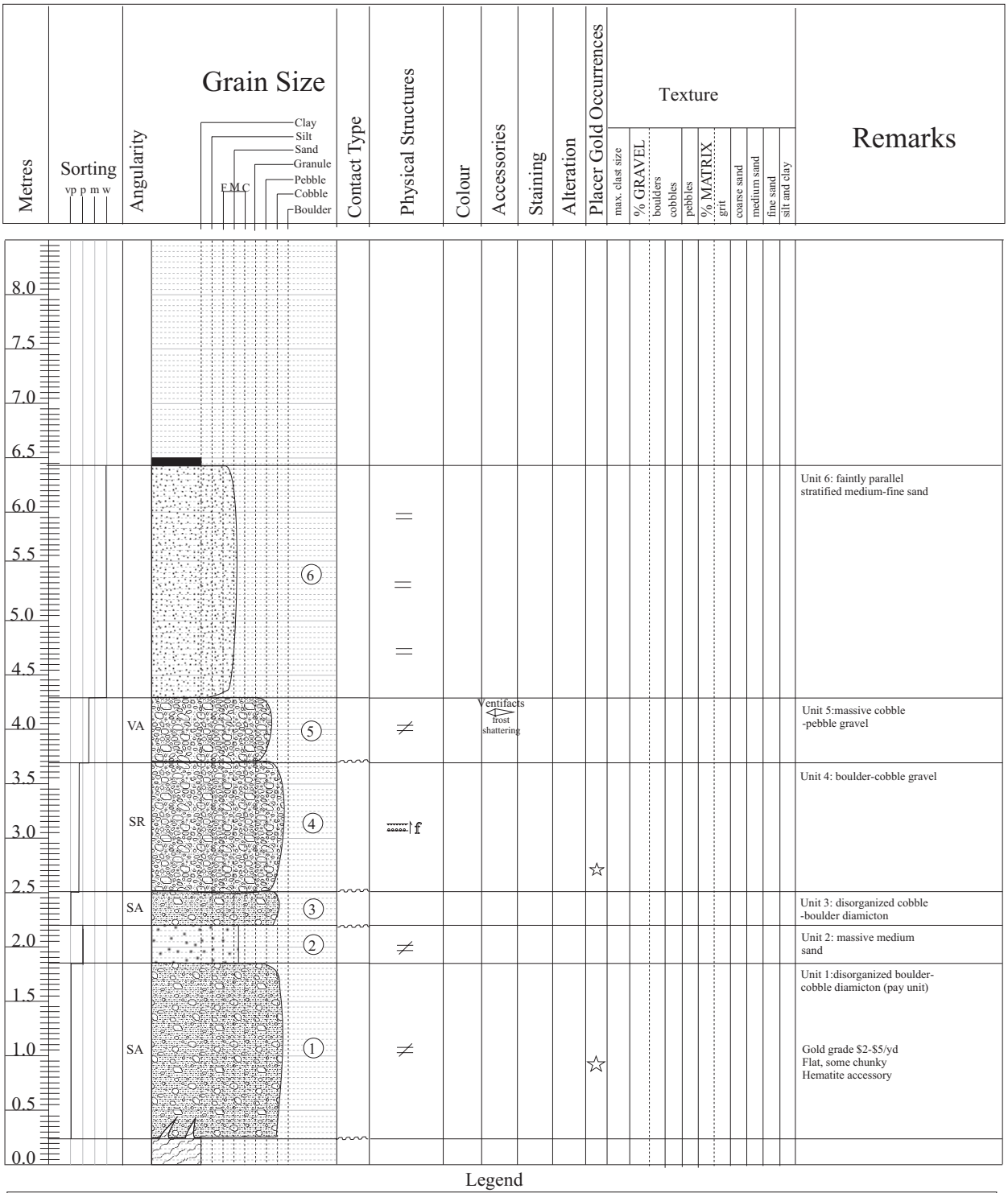
Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics

Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 08/08/95 Section number: GD1-95 Measured by: WPL Creek or River: Goodman Creek NTS: 115P16
Latitude: 63°55'36"N Longitude: 136°11'33"W Elevation: 2380 UTM: 0441450E,7089250N
Orientation: 285 ⟷ 105 upstream Geomorphic landform: Periglacial Fan



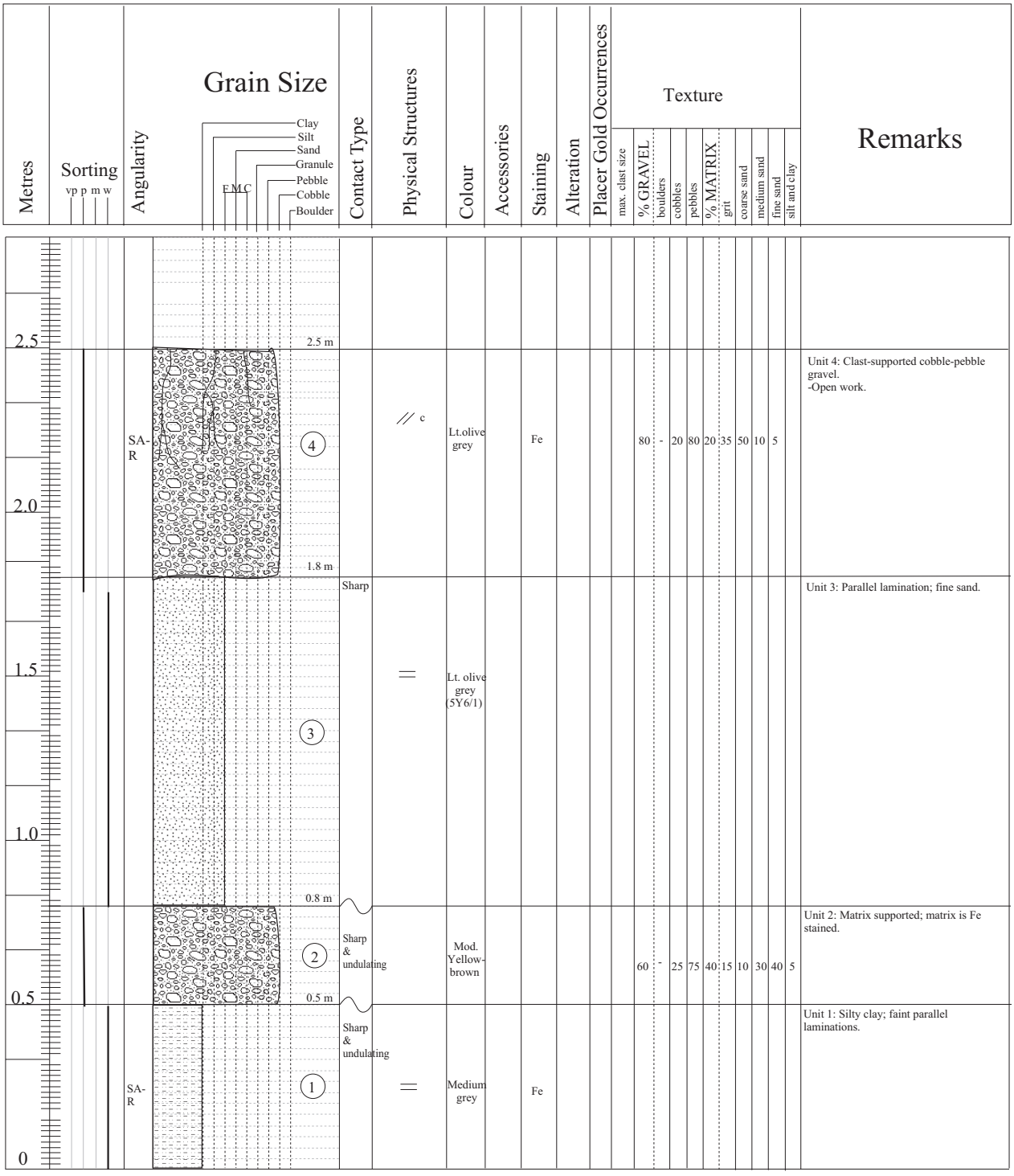
Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics
Sand Diamicton Cross-stratified Trough cross-stratified Fossils
Modifiers: c = crude d = discontinuous

Date: 12/08/97 Section number: GDM9701 Measured by: TA, DP Creek or River: Goodman Creek NTS: 115P/16

Latitude: _____ Longitude: _____ UTM: 443231E, 7087331N Elevation: 2200 ft

Orientation: 180 (ds) ⟷ 360 (us) Geomorphic landform: _____



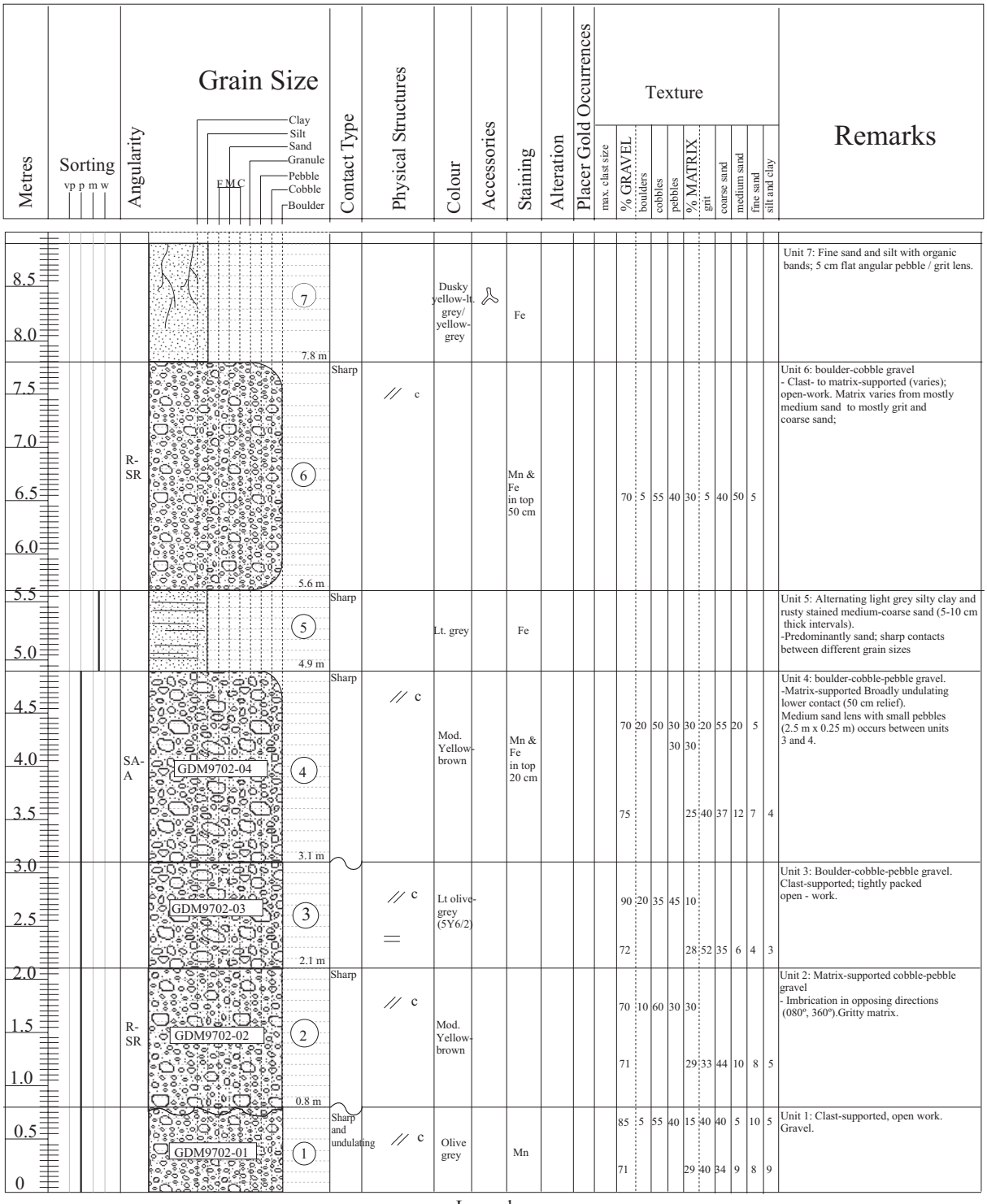
Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics

Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 12/08/97 Section number: GDM9702 Measured by: TA, DP Creek or River: Goodman Creek NTS: 115P/16
Latitude: 63°54'21.7" Longitude: 136°08'57.1" UTM: 443596E, 7086881N Elevation: 2050 ft
Orientation: 080 (ds) ⟷ 260 (us) Geomorphic landform:



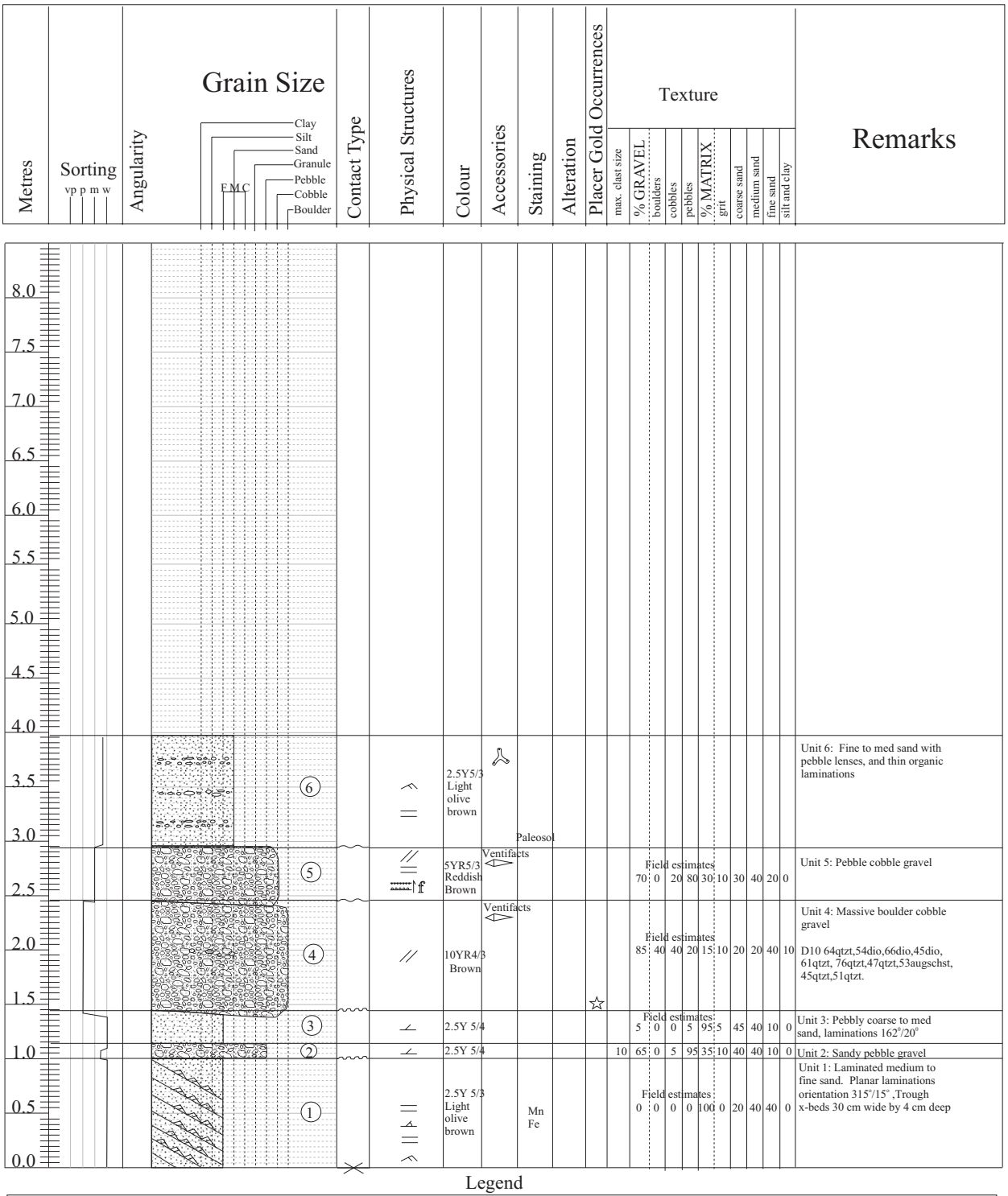
Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics
Sand Diamicton Cross-stratified Trough cross-stratified Fossils Planar Tabular Cross Beds
Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 06/08/97 Section number: ROD97-1 Measured by: WPL/DM Creek or River: Rodin Creek NTS: 115P16

Latitude 63°53'09"N Longitude: 136°17'47"W Elevation: 2500 UTM: 0436333E,7084754N

Orientation: 160 ⟷ 340 upstream Geomorphic landform: Glaciofluvial Terrace



Legend

Mud (Silt/clay) Gravel Planar stratified Massive Imbricate Ripples Organics

Sand Diamicton Cross-stratified Trough cross-stratified Fossils

Modifiers: c = crude d = discontinuous