

KENISON LIMITED - DRILL CORE RECORD

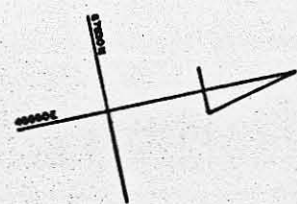
HOLE NUMBER	SD 19	SURVEY			From - To	Distance D	VERTICAL		HORIZONTAL	
		Depth (m)	Bearing	Dip			D.Sin Dip	R.L.	D.Cos Dip	Prog. Total
PURPOSE	Test easterly extension of skarn zone	collar	AMG							
		47.5	175°	- 66.5°						
LOCATION	St. Dizier	78.0	173°	- 66.8°						
		109.0	173°	- 67.0°						
COLIAR R.L.	2205.1	142.5	167°	- 67.2°						
		175.5	168°	- 68.1°						
CO-ORDINATES	5367731.8N 345567.0E	211.0	(148)164	- 68.3°						
		246.0	160°	- 67.8°						
LENGTH	322.5	280.0	163°	- 67.8°						
		296.0	166°	- 68.0°						
MOLE SIZE	0-3m HW 3-322.5m HQ	322.0	163°	- 67.8°						
DATE DRILLED	25.3.82 - 30.4.82									
SIGNIFICANT CORE LOSS ZONES	0-43.4m 24% recovery 47.0-70.8 70% recovery 128.7-153.0 51% recovery									
ORE ZONE GROUND CONDITIONS										
LOGGED BY	D. KILPATRICK									
COMMENTS	<p>* oriented dips of joint planes, veins, etc. are with respect to east-west strike and northerly dip of quartzite</p> <p>Bearing at 211.0m affected by magnetic (148) taken at 164</p>									

SUMMARY - ASSAY DATA

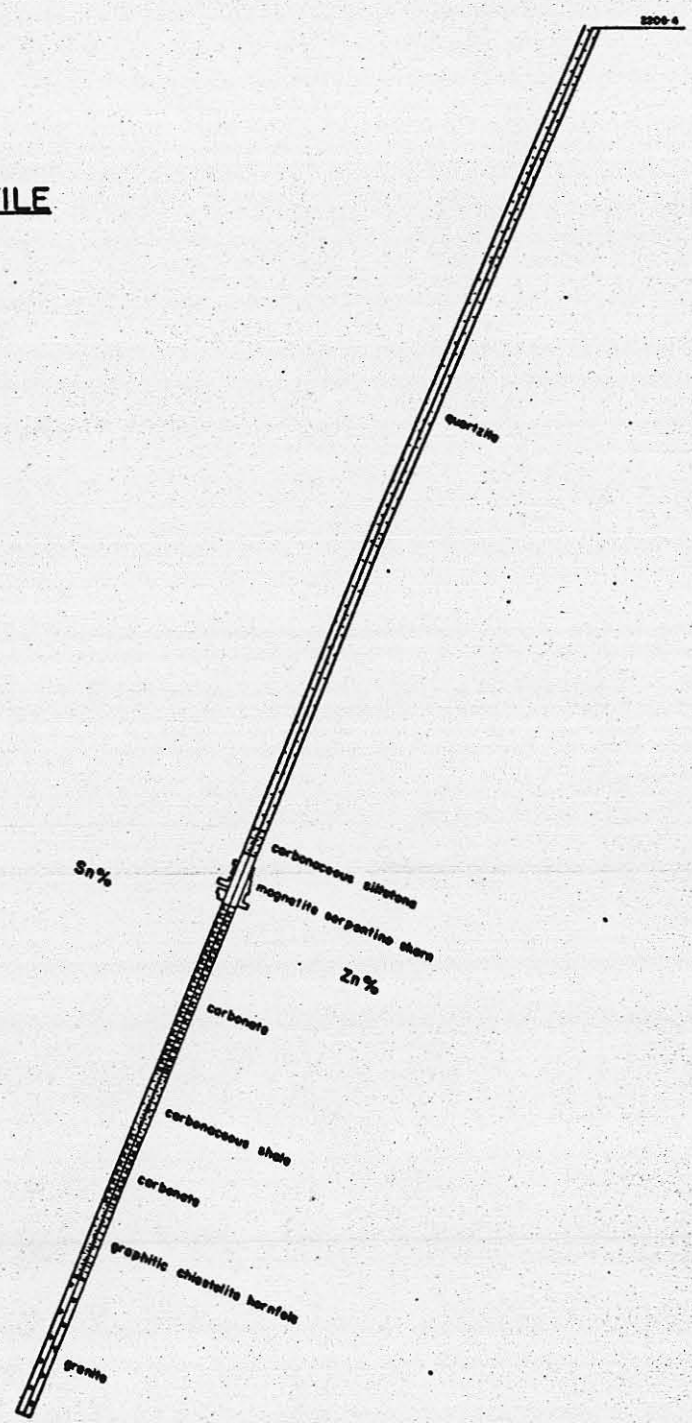
LODE NAME	FROM	TO	LENGTH (m)	AVERAGE WEIGHTED ASSAYS										S.C.A.	
				Sn.	Acid Sol. Sn.	Cu.	As.	S.	Pb.	Zn.	Bi.	WO ₃	Ag p/t		
	195	204	9.0	0.10	0.10	0.06	<0.1	1.2			0.64	0.006	<0.01	2	
	200	204	4.0	0.15	0.16	0.03	<0.1	0.6			0.95	0.007	<0.01	2	

HOLE NO. SD19

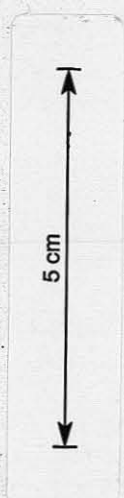
PLAN



DIP PROFILE



- 2032-9
- 2027-9
- 2019-2
- 1991-9
- 1967-1
- 1952-7
- 1936-9
- 1907-3



RENISON LIMITED
DIAMOND DRILL HOLE PLOT

DIAMOND DRILL RECORD

HOLE NUMBER : SD 19

LOGGED BY : D. KILPATRICK

INTERVAL (m)		RECOVERY		DESCRIPTION	FORM	% Sn										
FROM	TO	m	%			FROM	TO	TOTAL	ACID SOL.	% Cu.	% As.	% S.	% Pb.	% Zn.	% Bi.	g/t Ag
0	0.3	0.15	50	Soil and Micaceous Siltstone; Chocolate brown weathered micaceous siltstone and topsoil												
0.3	136.9	129.5	70	<p>Oonah Quartzite - fine grained silty grey micaceous siltstone and quartzite with interlaminated dark grey silty shale with biotite. Core includes fine muscovite (<0.1mm) and needles of (?) tourmaline recrystallised fine biotite and tourmaline.</p> <p>Grainsize of the core varies from mud to siltsize. The rock is often strongly banded probably original sedimentary bedding; dipping 30° to core axis (true dip steeply north, striking east-west)</p> <p>Rare of occasional patches of very fine disseminated pyrite.</p> <p>Finer dark grey shaly bands often appear leached and pitted.</p> <p>Occasional bands of very hard hornfels material at 29.0-29.3m, 39.2-40.0m, 55.5-56.0m. Dark blue grey basalite appearance.</p> <p>From around 40m the core becomes gradually harder and more siliceous with depth. Joint planes are common but orientation random.</p> <p>At 63m, banding in the softer micaceous siltstone is pale grey mica and tourmaline bearing quartz bands and red brown biotite, (?) phlogopite. At this depth core varies from hard grey spotted, banded quartzite to soft yellow grey clayey siltstone.</p> <p>Below 70m, the core contains slightly more abundant disseminated sulphide and has occasional veins of recrystallised quartz some of these appear to have minor (?) dolomite and perhaps siderite. Sulphide and tourmaline are common on joint planes. Phylogopite, muscovite are common.</p> <p>Below 74m, the core has a greenish pale grey fine grained appearance, containing less coarse tourmaline, phlogopite and quartz except in occasional micaceous siliceous siltstone or very fine quartzite. Banding still readily apparent - mostly fine <5mm wide. Banding is caused by occasional dark quartz tourmaline horizon yellow creamy clay and interbedded greenish grey fine chloritic siltstone</p>												

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DIAMOND DRILL RECORD

HOLE NUMBER : SD 19

LOGGED BY : D. KILPATRICK

INTERVAL (m)		RECOVERY		DESCRIPTION	FORM	% Sn.										
FROM	TO	m	%			FROM	TO	TOTAL	ACID SOL.	% Cu.	% Al.	% S.	% Pb.	% Zn.	% Bi.	g/t Ag.
				95-100m, Slickensides - slickensided joint plane 27° to core axis (true dip 40° south) slickensides plunge at 40° to 145 AMG												
				92-94m, Veining 55° to core axis. Contains clays and mica and quartz - (?) ex-pegmatite veins.												
				Pegmatite veins at 103.2-103.25m (58°S) and 108.1-108.15m (68°N)												
				Occasional bands of recrystallised quartz/tourmaline rock, sometimes subparallel to the main banding.												
				Below 100m, chlorite bands are sometimes serpentinous. Core generally somewhat silicified and sulphide filled fractures more common. Sulphides mostly pyrite associated with phlogopite. (see 111.4-113.0m). Bedding 35°-40° to core axis.												
				121-125m, section of very broken core, fragments average small cobble size.												
				126.8-127.3m, tourmalinised quartzite. Black quartzite mostly massive silicified fine tourmaline needles.												
				128.7-129.2. Very altered section. Quartz vein with alteration haloe of quartz, clays and muscovite.												
				131.4-131.5m; slickensided joint plane dips 38° to core axis (30°S true dip). Plunge of slickensides 145 AMG at 30°. Bedding dip 40° to core axis (~75°N true dip)												
				Random pegmatite veining and phlogopite tourmaline veining (60° to core axis, 7°S true dip).												
				132.8-140.0 very broken possibly crushed zone - (?) fault) - of coarse fragments. Ranges from large pebbles to small gravel size fragments in puggy clay. Clay contains mica. Bedding at 139.3 ~20° to core axis c.f bedding at 143m 30°-35° to core axis.												
				Below 150m the core becomes much more altered and silicified - occasional very altered (?) pegmatite bands of clay, quartz and sometimes sulphide. Also contains some red-brown phlogopite-like mica. Bands average 60° to core axis, Bedding to core axis angle is 48°. Fine silty bands now completely gone to yellow clay some metamorphic "spotting" present.												

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DIAMOND DRILL RECORD

HOLE NUMBER : SD 19

LOGGED BY : D. KILPATRICK

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INTERVAL (m)		RECOVERY		DESCRIPTION	FORM.	% Sn.											
FROM	TO	m	%			FROM	TO	TOTAL	ACID SOL.	% Cu.	% Al.	% S.	% Pb.	% Zn.	% Bi.	g/t Ag.	% WO ₃
				156.0-156.4m; occasional altered pegmatite veins; 50° to core axis (almost horizontal - true dip).													
				161.5m - small aplite band dipping NE at 55° to core axis. Bedding at 163.5 is 23° to core axis. 162.7-163.0m quartz vein with phlogopite, muscovite pyrite and chlorite.													
				165-168m core contains serpentine mica, silicified quartz. 167.5m Bedding to core axis angle 40°.													
				173.6-180.0 Very altered zone. Yellow creamy silty clay with dull brown red or flesh coloured micaceous siltstone bands and blobs of red-brown phlogopite and bands of quartz with coarse phlogopite muscovite and pyrite. Quite broken. RQD 40%													
				Below this the core has grey translucent appearance and may contain minor calcareous component. Very weakly effervescent in HCL. The core is multiply veined (SE. 34° to core axis) and jointed (E30° to core axis). Some horizons appear to be sheared e.g. 183.4-183.6m, 184.0-184.4m, 185.8-186.2m													
				184.6-192.8m, very broken zone													
				RQD = 20%													
186.9	192.6	4.8	84	Carbonaceous Siltstone dark grey to black very fine grained carbonaceous siltstone.		186	187	0.01	0.01	0.02	0.1	0.4		0.03	0.001	1	20
				180.0-192.6m, possibly carbonaceous but more leached than above but more leached, very altered. Contains minor pyrite, tourmaline. Mostly yellow clay and quartz some blue-grey clay. Abundent veining.		188		0.02	0.01	0.01		1.1		0.03	0.05	1	
						189		0.02	0.01	0.02		1.1		0.04	0.03	1	
						190		0.02	0.01	0.02		0.6		0.24	0.03	1	
						191		0.02	0.01	0.02		0.9		0.03	0.02	2	
						192		0.03	0.01	0.04		1.5		0.03	0.05	2	
						193		0.03	0.01	0.03		1.9		0.05	0.05	2	
						194		0.02	0.01	0.01		1.1		0.02	0.04	2	
						195		0.04	0.01	0.02		0.8		0.03	0.04	1	
						196		0.09	0.05	0.12		1.8		0.27	0.04	3	
						197		0.05	0.02	0.17		0.7		0.07	0.07	3	
						198		0.06	0.05	0.01		0.2		0.42	0.07	1	20
						199		0.03	0.02	0.02		0.4		0.51	0.03	2	20
						200		0.05	0.05	0.01		0.3		0.67	0.05	1	20
						201		0.07	0.30	0.02		0.4		0.86	0.12	2	20
						202		0.01	0.01	0.02		0.4		0.58	0.02	1	20
						203		0.19	0.21	0.02		0.3		0.61	0.07	2	20
						204		0.13	0.14	0.02		1.1		1.74	0.05	3	

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DIAMOND DRILL RECORD

HOLE NUMBER : SD 19

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INTERVAL (m)		RECOVERY		DESCRIPTION	FORM.	% Sn.												
FROM	TO	m	%			FROM	TO	TOTAL	ACID SOL.	% Cu.	% Al.	% S.	% Pb.	% Zn.	% Bi.	% Ag	% Wc.	
204.6	243.0	38.4	100	Carbonate silicified banded dark grey and pale grey interlaminated carbonaceous siltstone, chloritised siliceous siltstone. Banding is undulating between 20°-40° to core axis (au 25° to core axis). Bands average 10mm width often <1mm. Serpentine veining sometimes carries sulphide mostly pyrite. Sulphides occasionally interlaminated with darker siliceous carbonate bands. All core effervesces strongly. Banding near upper contact is undulating almost parallel to core axis. Jointing in this zone (205.3-206.8m) is 40° to core axis. Stylolites at 205.2m (?) Intrafolial slumping also within upper section. Between 206.8-210.0m BCA is 20°. Core is strongly banded white and grey carbonate with serpentine and occasional interbands of sulphide. All core effervesces strongly. 210.0-211.9m; pale grey banded carbonate with minor dark grey siliceous siltstone than above. Core axis angle 40°. The carbonaceous bands effervesce strongly but the siliceous bands do not. 211.9-222.3; Massive carbonate - pale grey to white speckled weakly magnetic core. Semi-continuous or interfingering white (?) stylolite horizons Sinuous and massive serpentine veining occurs between 214.5-216.8m Below 216.8m, the serpentine appears to have been leached and altered to pale grey green micaceous siliceous material and further leached and altered to vugs with remnant beige siliceous framework. Core is less reactive to acid becoming non-reactive last 3 metres. Disseminated sulphides vary from minor to some bands of abundant pyrite with serpentine or magnetite.. 220.4-220.7m, Weakly magnetic - speckled grey core. 222.3-223.8m, very altered weathered carbonate and leached magnetite bearing carbonate (weakly magnetic) mostly competent rock-minor pyrite. 223.8-243.0; Silicified carbonate - pale grey and white leached banded jointed veined carbonate with horizons of silicified carbonate and opaline silicate. Stylolite horizons common. Some vugs filled with clays and opaline green silica.														
						205	206	0.01	<0.01	0.02	<0.1	0.7	0.03	0.005	3	<0.01		
							207	0.01	"	0.01	"	1.2	0.02	0.07	2	"		
							208	0.01	"	0.01	"	0.5	0.02	0.05	3	"		
							209	0.01	"	0.01	"	0.3	0.02	0.05	3	"		
							210	<0.01	"	0.01	"	0.5	0.02	0.06	4	0.02		
							211	0.01	0.01	0.01	"	0.7	0.02	0.06	3	<0.01		
							212	0.01	<0.01	0.01	"	1.7	0.03	0.05	3	<0.01		
							213	0.02	"	0.04	"	0.4	0.02	0.06	5	"		
							214	<0.01	"	<0.01	"	0.1	0.01	0.06	4	"		
							215	0.01	"	0.01	"	0.1	0.01	0.07	4	"		
							216	0.01	"	<0.01	"	0.1	0.01	0.06	4	"		
							217	<0.01	"	0.01	"	0.1	0.01	0.05	3	"		
							218	<0.01	"	0.01	"	<0.1	0.01	0.06	4	"		
							219	<0.01	0.01	0.02	"	<0.1	"	0.07	4	"		
							220	<0.01	<0.01	0.01	"	0.4	"	0.05	3	"		
							221	0.01	"	0.01	"	0.3	"	0.04	2	"		
							222	0.01	"	0.01	"	1.0	"	0.03	1	"		
							223	<0.01	"	<0.01	"	1.8	"	0.04	2	"		
							224	<0.01	"	0.01	"	0.5	"	0.06	3	"		
							225	<0.01	"	<0.01	"	<0.1	"	0.06	4	"		
							226	0.02	"	0.01	"	<0.1	"	0.06	4	"		
							227	<0.01	"	0.01	"	<0.1	"	0.05	3	"		
							228	<0.01	"	<0.01	"	0.2	"	0.07	2	"		
							229	0.01	"	0.01	"	0.2	"	0.05	3	"		
							230	<0.01	"	0.01	"	0.2	"	0.06	3	"		
							231	<0.01	"	<0.01	"	0.5	"	0.05	3	"		
							232	<0.01	"	0.01	"	0.3	"	0.06	3	"		
							233	<0.01	"	0.01	"	0.2	"	0.06	3	"		
							234	0.03	"	0.01	"	0.4	"	0.06	3	"		
							235	0.01	"	0.01	"	0.4	0.02	0.05	3	"		
							236	0.01	"	0.02	"	0.5	0.01	0.07	3	"		
							237	"	"	0.02	"	0.8	0.05	0.02	1	"		
							238	"	"	0.01	"	0.7	0.06	0.01	1	"		
							239	"	"	0.02	"	1.7	0.09	0.03	1	"		
							240	"	"	0.01	"	<0.1	0.01	0.01	<1	"		
							241	"	"	0.03	"	<0.1	0.02	0.02	1	"		
							242	"	"	0.02	"	1.0	0.02	0.02	1	0.02		
							243	"	"	0.02	"	1.5	0.07	0.02	1	<0.01		
							244	"	"	0.05	"	1.3	0.04	0.02	1	"		
							245	"	"	0.02	"	1.7	0.06	0.03	<1	"		

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DIAMOND DRILL RECORD

HOLE NUMBER : SD 19

LOGGED BY : D. KILPATRICK

INTERVAL (m)		RECOVERY		DESCRIPTION	FORM.	% Sn.										
FROM	TO	m	%			FROM	TO	TOTAL	ACID SOL.	% Cu.	% As.	% S.	% Pb.	% Zn.	% Bi.	g/t Ag
				<p>Core is quite broken in places (?BCA 40° - Stylolites make interpretation difficult) Jointing and veining are irregular and random. Jointing average 35° to core axis - dipping NE. Very broken zone between 233.8-236.0m - crushed with slickensides. Joint plane averages 10°-20° to core axis. - no orientation possible. Minor magnetite and disseminated pyrite. Green-grey clayey silicate material is common. A second smaller crush zone occurs between 238.3-238.5m. Minor disseminated and veined sulphides. Gradational contact over 1/2 metre.</p>												
243.0257.9		12.7	85	<p>Carbonaceous Shale Dark grey fine grained siliceous shales with (?) carbonaceous veining (non-reactive to acid). Serpentine alteration is common - dark green black.</p> <p>243.2-243.4m, crush zone with abundant coarse pyrite.</p> <p>Core carries only minor disseminated pyrite and some in veins. Some slickensided joint planes between 245m-246m.</p> <p>248.1-253.0m, Possible silicified basaltic horizon - deuse pale grey material of fine (?) quartz, altered feldspar, and lenses of sulphide and mafics - alteration products of original inclusions: contains disseminated pyrite and pyrrhotite and is weakly magnetic. Strongly foliated with occasional interbands of siliceous carbonaceous shale (eg between 250.4-253.0)</p>												
257.9273.4		15.5	100	<p>Carbonate pale grey banded carbonate rock contains interlaminated pale grey carbonate and dark grey or black tourmaline magnetite or serpentine bands. Black stylolite horizons and lenses of green-yellow serpentine. Contains abundant carbonate veins. Two shale horizons occur between 261.3-261.5m and 263.2-264.4m. Pyrite is common on joint planes. The second shale unit is overturned at the upper contact.</p> <p>Banding is strong but irregular with common interfingering and flame structure. Irregular network of veining and large clasts derived from soft sediment brecciation. Also wavy stylolitic-like banding. Banding au 43° to core axis - quite irregular.</p>												

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INTERVAL (m)		RECOVERY		DESCRIPTION	FORM.	% Sn.										
FROM	TO	m	%			FROM	TO	TOTAL	ACID SOL	% Cu	% As	% S	% Pb	% Zn	% Bi	% Ag
273.4	285.4	11.4	95	Carbonaceous Shale Banded grey (?) carbonaceous shale. Grey to black strongly banded or laminated fairly competent core of grey siliceous shaly siltstone with fine darker mafic lamellae, minor serpentine - average band width 0.8cm - some graded bedding; fine siltstone to (?) carbonaceous mudstone. The finer bands have been recrystallised to form the coarser (?) dolomite material - grains up to 3mm. These bands sometimes carry minor disseminated pyrite grains. Banding toward the base of this unit becomes almost gneissic in appearance. Fine interfingering lamellae of grey and black siliceous bands with (?) recrystallised lenses (≤2mm of some siliceous material. Toward the base of the unit the core becomes more altered and deformed. BCA 35°-55° (BCA is quite variable - higher angles with depth). The last one metre is leached to pale grey-white silicate framework with minor tourmaline.												
285.4	286.1	0.7	100	Breccia Dark grey green coarse breccia consisting of dark grey-green siltstone matrix with pebble-size angular fragments up to 3cm. Some fragments show poor degree of rounding. Fragment appear to be grey fine grained siliceous siltstone. Irregular slickensided joint planes present.												
286.1	292.8	6.5	97	Graphitic Chiastolite Hornfels - Mostly competent dark grey to black fine banded hornfelsed (?) siltstone with fine grey siliceous graphitic matrix and abundant porphyroblastic (?) altered chiastolitic lenses - mostly gone to mica or chlorite. (up to 3mm long) Red-brown phlogopite mica is common. Occasional bands of more graphite rich material. Minor disseminated and sometimes more granular pyrite associated with veins.												
292.8	322.5	28.2	95	Granite Altered fine to medium grained pale grey granite of mostly quartz and feldspar (au 0.5mm) with biotite (au 2mm) and occasional tourmaline nodules up to 2.5cm. Granite is banded near the contact with pegmatite like horizons - coarse grained with graphitic intergrowths of quartz and feldspar (BCA ~70°). Alteration of feldspars to green chloritic material common. Very broken and altered at contact.												

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04 100

