



CLEVELAND TIN N.L.

CATEGORY
MINE
EXPL.

HOLE No. : C631

GENERAL DATA

Objective : HALLS LODGE 17-20 LEVEL

Area of Operation : Location : GA SECTION, SURFACE, EAST OF DEEP CREEK

Collar R.L. : 397.4 Co-ordinates : 15205.4 N, 11015.5 E

Bearing of Hole : Angle of Hole : Final Depth : ~~377.03~~ 489.8 m.

Drilling Commenced : Completed : Logged by : KGPALMER

DRILLING DATA

Drilled by : LONGYEAR Non Coring :

Drilling Rig : 38 Coring :

Driller(s) :

Core Recovery :

HOLE SURVEYS

CAMERA SURVEY.

TROPARI

ACID

HOLE No. :

ABMINCO N.L. - Cleveland Mine

Hole No. C 631

Sheet No. 1

DIAMOND DRILL HOLE DATA

PROGRAM DATA				SURVEY DATA				INTERPOLATED DATA		
				Instrument Type	Depth	Dip	Azimuth	Depth	Dip	Azimuth
1	Attitude	CHS	(+) (-)		0	60	312	0	60	312
					45.7	59	315	12.5	60	312.5
2	Hole No.	631			91.44	59	322	37.5	59.4	314.2
					182.88	58	322	62.5	59	320.7
3	Down Hole Interval	25			274.32	57	322	87.5	59	321.9
					365.76	53	322	112.5	58.8	322
4	Collar	15205.4	N		449.58	49	319	137.5	58.3	322
					489.8	45	319	162.5	58	322
5	Co-ords.	11015.5	E					187.5	58	322
								212.5	57.9	322
6	Collar R.L.	397.4						237.5	57.4	322
								262.5	57.2	322
7	Halls Sect.	15432.8	N					287.5	56.8	322
								312.5	55.5	322
8	Intersect Point	10762.0	E					337.5	54.5	322
								362.5	53	322
9	Battery Sect.		N					387.5	52	321.5
								412.5	50.7	320.3
10	Intersect. Point		E					437.5	49.7	319.3
								462.5	48	319
11	Start Plot (Depth)	0	ø = Collar					487.5	45.4	319
								512.5		

HOLE No. : C 631

SAMPLE DATA

SHEET No. : 1

LENS	SAMPLE No.	ROCK TYPE	Σ	INTERVAL		Length (L)	Assays (A)			Product (A x L)		
				From	To		% Snt	% Sns	% Cu	P. Snt	P. Sns	P. Cu
	113755	LODE		352.55	353.66	1.01	0.32	0.05	0.13			
	113756	"		353.66	354.28	0.62	0.26	0.03	0.15			
	113757	"		354.28	354.61	0.33	0.22	0.05	0.05			
	113758	"		354.61	355.48	0.87	0.22	0.03				
	113759	"		355.48	356.19	0.71	0.27	0.04				
			Σ	352.55	356.19	3.64	0.48	0.04				

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HOLE No. : C 631

SAMPLE DATA

SHEET No. :

LENS	SAMPLE No.	ROCK TYPE	Σ	INTERVAL		Length (L)	Assays (A)			Product (A x L)		
				From	To		% Snt	% Sns	% Cu	P. Snt	P. Sns	P. Cu
	113830	LODE		^{462.08} 1516'0"	^{463.07} 1519'3"	0.99	0.26		0.12			
	31	LODE		1519'3"	^{464.04} 1522'5"	0.97	0.42		0.07			
	32	LODE		1522'5"	^{465.08} 1525'10"	1.04	0.05		0.13			
	33	LODE		1525'10"	^{466.24} 1529'8"	1.16	0.06		0.08			
		Chert		1529'8"	^{466.48} 1530'5"	0'9" ^{0.24}						
	34	LODE		1530'5"	^{466.88} 1531'9"	1'4" ^{0.40}	0.04		0.01			
		Shale		1531'9"	^{467.27} 1533'1"	1'4" ^{0.39}	0.04					
	35	LODE		1533'1"	^{468.01} 1535'5"	2'4" ^{0.74}	0.04		0.01			
		Shale.		1535'5"	^{468.29} 1536'4"	0'11" ^{0.26}						
	36	LODE		1536'4"	^{469.38} 1539'11"	1.11	0.08		0.61			
	37	LODE		1539'11"	^{470.44} 1543'5"	3'6" ^{1.06}	0.06		0.60			
	38	LODE		1543'5"	^{471.69} 1547'7"	4'2" ^{1.25}	0.04		0.14			
		Shale		1547'7"	^{472.00} 1548'9"	1'2" ^{0.37}						
	113839	LODE.		1548'9"	^{472.21} 1549'3"	0'6" ^{0.15}	0.04		0.04			
			Σ	462.08	472.21	10.13	0.10		0.19			

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HOLE No. C631

GEOLOGICAL LOG

SHEET No.

From To

LIFTS			DRILL INTERVAL			BEDDING	ROCK TYPE	DESCRIPTION	ASSAYS		
From	To	Recovery	From	To	Length				Angle to Core Axis	% Snt	% Sns
0	4.10	0.37	0	38.28	38.28	40°	Brown SHALE.	Very broken core. Chocolate to reddish brown shale. Very rarely bleached.			
4.10	4.86	0.09						to pale grey. Occasionally fine bedded.			
4.86	5.64	0.80						Cleaves readily parallel to bedding.			
5.64	6.41	1.02						Get colour variation - dark brown and			
6.41	7.47	1.20						rose greyish bands from 2.8.0 metres onwards			
7.47	8.54	1.32						Rock contains very fine bands of brown			
8.54	9.75	1.22						and brownish grey sandy material.			
9.75	10.20	0.66						Chert around 32.0 metres.			
10.20	11.12	1.04									
11.12	11.58	0.74	38.28	40.32	2.04		LITHIC GREYWACKA	Sedimentary massive rock composed of			
11.58	11.89	0.29						fragments of rock of variable size and			
11.89	14.32	0.24						colour. Colour varies from whitish grey through			
14.32	14.93	0.33						green to red brown. Fragments are sub rounded			
14.93	15.55	0.24						to angular and vary in size from sand to			
15.55	15.85	0.25						gravel. Size sorting evident with biggest fragments			
15.85	16.00	0.20						towards the bottom. Conglomerate at 39.00			
16.00	16.31	0.28						to 39.70 m.			
16.31	16.61	0.24	40.32	43.24	2.92	39°	Siltstone	Purplish grey and brown fine bedded siltstone.			
16.61	16.92	0.22						Greenish brown to grey in final section.			

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From To

LIFTS			DRILL INTERVAL		Length	BEDDING		ROCK TYPE	DESCRIPTION	ASSAYS		
From	To	Recovery	From	To		Angle to Core Axis				% Snt	% Sns	% Cu
16.92	17.07	0.33	43.24	44.81	6.57	53°	Tuff, Shale Siltstone.	Interbedded green tuff and purple and greenish brown shale. Tuff is minor at start but becomes dominant. Last 0.30 meter is all greenish tuff. Tuff sections are sometimes cherty and rarely contains disseminated subhedral pyrite. Shale sections are normally purple brown and rarely are silty.				
17.07	17.37	0.45										
17.37	18.18	0.37										
18.18	18.24	0.31										
18.24	18.90	0.50										
18.90	19.35	0.36										
19.35	20.73	1.49										
20.73	21.34	0.76	49.81	73.33	23.52		Basalt.	Massive dark green, fine grained basalt.				
21.34	21.80	0.33										
21.80	22.10	0.36										
22.10	22.56	0.53	73.33	83.45	10.12	48°	LITHIC TUFF	Normally massive but rarely fine grained bedded tuffaceous rock. Major component is fine grained grey green groundmass but contains variable quantities of brown to grey rock fragments - angular.				
22.56	23.47	0.83										
23.47	23.93	0.37										
23.93	24.23	0.33										
24.23	24.84	0.66										
24.84	26.51	1.48										
26.51	27.28	0.45							vein at 73.83 0.02 meter wide.			
27.28	28.80	1.62							Quartz, chloropyrite, galena, pyrite.			
28.80	29.73	0.83							Large coarse lithic fragments. 76.48 to 77.34			

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From To

LIFTS			DRILL INTERVAL			BEDDING Angle to Core Axis	ROCK TYPE	DESCRIPTION	ASSAYS		
From	To	Recovery	From	To	Length				% Snt	% Sns	% Cu
29.73	32.61	2.93	83.45	84.42	0.97		Brown SHALE	Purple brown massive shale. Minor bed of lithic tuff in early section. Minor cherty rock.			
32.61	34.44	1.68									
34.44	35.66	1.32	84.42	85.32	0.90	33°	Tuff	Purple green fine bedded tuff and tuffaceous shale.			
35.66	38.10	2.19									
38.10	38.71	0.95	85.32	86.13	0.81		Brown shale.	As above. Rarely has cherty units.			
38.71	39.62	1.09	86.13	92.55	6.42	30°	Tuff.	Green, greyish green and in early sections brownish green tuff. Normally cherty and rarely fine bedded. Often cherty.			
39.62	41.75	1.88									
41.75	44.80	3.04									
44.80	47.09	2.47									
47.09	48.77	1.63									
48.77	50.90	2.05	92.55	143.08	50.53		Basalt.	Massive dark green, fine grained basic volcanic.			
50.90	53.95	3.00									
53.95	57.00	3.09									
57.00	60.04	3.12									
60.04	63.09	3.04									
63.09	64.91	1.88									
64.91	67.97	2.89									
67.97	69.34	1.58									
69.34	72.23	2.00									

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SHEET No.

From To

LIFTS			DRILL INTERVAL			BEDDING Angle to Core Axis	ROCK TYPE	DESCRIPTION	ASSAYS		
From	To	Recovery	From	To	Length				% Snt	% Sns	% Cu
72.23	73.76	1.47	143.08	149.52	6.44		LITHIC TUFF	Commonly fine grained but often containing coarse fragments of lithic material. Grey to greenish grey. Often mosaic and rarely fine bedded. Chaotic in places.			
73.76	75.28	1.52									
75.28	78.33	2.90									
78.33	79.86	1.30									
79.86	81.38	1.78						Extensive white and colorless carbonate veining (calcite) Section around 145 faulted and some clay. Very chertic. Becomes less chertic and more even grained towards the bottom. Some fragments of chert.			
81.38	83.52	2.21									
83.52	86.57	3.10									
86.57	89.62	2.87									
89.62	90.68	1.32									
90.68	91.44	0.85	149.52	152.08	2.56		Greywacke.	Fine grained pale greenish grey lithic greywacke. May be a less tuffaceous version of the tuff above. Appears to be a gradational contact.			
91.44	93.57	1.99									
93.57	96.62	3.04									
96.62	99.62	3.04									
99.62	102.71	3.05	152.08	154.22	2.14	35°	Shale.	Pale greenish grey rarely fine bedded shale. Minor greywacke sections.			
102.71	105.76	3.14									
105.76	108.81	3.15	154.22	158.54	4.32		Greywacke.	Fine grained pale greenish grey lithic greywacke. Common carbonate veins. Coarse fragments near the top.			
108.81	111.86	3.01									
111.86	114.91	3.00	158.54	161.14	2.60	36°	Shale.	Grey shale. Rare fine bedding. Occasional veins with pyrite. No carbonate.			
114.91	117.96	3.07									

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LIFTS			DRILL INTERVAL			BEDDING	ROCK TYPE	DESCRIPTION	ASSAYS		
From	To	Recovery	From	To	Length				Angle to Core Axis	% Snt	% Sns
149.36	150.27	0.70	208.79	210.53	1.74	53°	Tuff.	Greyish green fine grained, fine bedded tuff. Common chloritic partings.			
150.27	150.57	0.22						Cherty in first sections.			
150.58	150.88	0.31									
150.88	151.34	1.24	210.53	258.45	47.92		Basalt.	Massive fine grained basaltic volcanic.			
152.34	152.46	0.33						Irregular sections of v.f.g. grey green			
152.46	153.01	0.39						effuseous material occasionally brecciated.			
153.01	155.91	3.03						Common chloritic partings.			
155.91	157.12	0.80						Looks slumped?			
157.12	159.26	2.22						Numerous insignificant veins containing			
159.26	160.63	1.47						quartz, chlorite, pyrite sphalerite pyrrhotite.			
160.63	162.76	1.90	258.45	261.45	3.00	42°	Tuff.	Fine to very fine grained grey to			
162.76	163.67	1.08						greenish grey and green tuff. Fine			
163.67	164.59	0.69						bedded but commonly slumped			
164.59	164.90	0.14						involving disturbed and minor folded			
164.90	166.72	2.13						bedding.			
166.72	169.77	3.03	261.45	265.16	3.71		Basalt.	Fine grained green and brownish green			
169.77	170.53	0.83						massive basaltic volcanic.			
170.53	172.82	1.39	265.16	270.08	4.92	58°	Tuff.	Fine bedded greyish green tuff. Cherty			
172.82	174.04	1.25						in places.			

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From To

LIFTS			DRILL INTERVAL			BEDDING Angle to Core Axis	ROCK TYPE	DESCRIPTION	ASSAYS		
From	To	Recovery	From	To	Length				% Snt	% Sns	% Cu
174.04	175.87	1.80	270.08	288.48	18.40		Basalt.	Very fine grained massive green to brownish green basaltic volcanic.			
175.87	177.80	2.01									
177.80	180.85	3.02	288.48	293.85	5.37	48°	Tuff.	Fine grained greyish green and brownish grey stone ^{tuff} and tuffaceous shale.			
180.85	183.19	2.00									
183.19	186.24	3.16						Fine bedded and sometimes chaotic			
186.24	188.09	1.67	293.85	300.28	6.43		Basalt.	Fine grained greyish green and brown massive basaltic volcanic. Last 10 cm is micritic with CH ₄ , CO ₂ , Fe, Cr, etc.			
188.09	189.00	0.97									
189.00	191.12	2.15									
191.12	194.17	3.03	300.28	326.18	25.90		Shale.	Grey, brownish grey and rosy greenish grey massive and chaotic shale.			
194.17	197.20	3.02									
197.20	197.81	0.65						Contains rare small sections of			
197.81	200.25	2.44						brownish grey sandy material and			
200.25	203.30	2.99						occasional small cherty patches.			
203.30	206.35	2.99						Some greenish colored patches are			
206.35	209.40	2.88						slightly coarser grained and may be			
209.40	212.45	3.10						tuffaceous.			
212.45	215.49	3.07	326.18	328.16	1.98		Sandstone.	Massive brownish grey to greenish grey			
215.49	218.54	3.01						sandstone.			
218.54	219.15	0.60									

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From To

LIFTS			DRILL INTERVAL			BEDDING Angle to Core Axis	ROCK TYPE	DESCRIPTION	ASSAYS		
From	To	Recovery	From	To	Length				% Snt	% Sns	% Cu
219.15	221.59	2.52	328.16	329.11	0.95		Shale.	Grey and brownish grey massive chaotic shal. Has been intensely fractured and fracture infilled with quartz and minor carbonate. Some small patches of unbedded sandstone.			
221.59	224.64	2.95									
224.64	227.69	3.03									
227.69	230.73	2.97									
230.73	232.46	1.78									
232.46	235.61	3.12	329.11	329.98	0.87		Sandstone.	Grey and greenish grey massive medium grained sandstone.			
235.61	238.66	3.01									
238.66	241.71	3.09	329.98	330.74	.76		Chert.	Dark grey chaotic massive chert. Minor unbedded sandstone.			
241.71	244.76	3.09									
244.76	247.96	3.08	330.74	338.37	7.63		Sandstone	Grey and greenish grey fine grained massive sandstone.			
247.96	251.09	3.15									
251.09	252.07	0.83	338.37	338.67	0.30		Shale.	Mid greenish grey massive shale.			
252.07	255.12	2.99	338.67	338.89	0.22		Sandstone		As above.		
255.12	258.17	3.07	338.89	339.22	0.33		Shale	As above.			
258.17	260.05	1.84	339.22	344.57	5.35		Sandstone	Identical to sandstone above but has minor shale inclusions			
260.05	262.13	2.25									
262.13	265.16	2.94	344.57	352.55	7.98		Shale.	Mid grey chaotic massive shale. Minor cherty patches, particularly towards the bottom. Very rare stringers and patches of			
265.16	266.22	0.94									
266.22	269.27	3.10									

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From To

LIFTS			DRILL INTERVAL			BEDDING Angle to Core Axis	ROCK TYPE	DESCRIPTION	ASSAYS		
From	To	Recovery	From	To	Length				% Snt	% Sns	% Cu
269.27	272.32	3.09						pyrrhotite chalcopyrite chlorite minor silicates			
272.32	275.38	3.09						Some minor veins.			
275.38	278.59	3.07	352.55	354.28	1.73		LODE	Chloritic lode with pyrrhotite, minor chalcopyrite and rare visible covellite.			
278.59	281.64	2.99						Sulphides are normally minor			
281.64	283.77	2.10						Tourmaline and minor chert with rare pyrrhotite and less chalcopyrite.			
283.77	286.82	3.06	354.28	354.61	0.33		LODE	Pyrrhotite, chalcopyrite, chlorite quartz, carbonite with rare tourmaline and covellite			
286.82	289.87	3.03						Dark grey chaotic shale, greenish colour in places. Mosaic.			
289.87	290.18	0.20	354.61	356.19	1.58		LODE	Grey and greenish grey sandstone. Mosaic but considerable variation in grain size from very fine to medium to coarse.			
290.18	291.70	1.52						Dark grey medium spotted shale			
291.70	292.01	0.44						Brownish large when broken.			
292.01	294.75	2.34	356.19	358.64	2.45		Shale	Light to mid grey sandstone. Minor argillaceous content.			
294.75	297.49	2.66									
297.49	299.46	1.93	358.64	361.17	2.53		Sandstone				
299.46	302.51	3.13									
302.51	302.97	0.40									
302.97	305.26	2.39	361.17	361.46	0.29		Shale				
305.26	305.87	0.61									
305.87	309.07	3.20	361.46	363.06	1.60		Sandstone				
309.07	312.12	3.09									

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From To

LIFTS			DRILL INTERVAL			BEDDING Angle to Core Axis	ROCK TYPE	DESCRIPTION	ASSAYS		
From	To	Recovery	From	To	Length				% Snt	% Sns	% Cu
312.12	313.34	1.10	363.06	363.47	0.41		Shale.	Dark brownish grey massive shale.			
313.34	316.08	2.80	363.47	364.81	1.34		Sandstone	Light grey massive sandstone.			
316.08	319.13	2.95	364.81	365.17	0.36		Shale	As above with minor sand content.			
319.13	322.17	3.09	365.17	368.91	3.74		Sandstone	As above, some medium grained.			
322.17	325.22	3.02	368.91	369.25	0.34		Shale	As above. Massive.			
325.22	328.27	2.90	369.25	375.77	6.52		Sandstone	Med to light grey, massive. Variable argillaceous content. Changes occasionally to sandy shale.			
328.27	330.09	1.80									
330.09	333.14	3.14									
333.14	336.04	3.01						Becomes lighter coloured (to cream)			
336.04	339.09	3.00						and finer grained from 32 372.20 onwards.			
339.09	342.14	3.10	375.77	376.43	0.66		Shale.	Light grey chaotic shale.			
342.14	343.51	1.31	376.43	376.86	0.43		Sandstone	Cream coloured massive fine grained sandstone.			
343.51	346.56	3.00									
346.56	349.61	3.11	376.86	376.88	0.12		Shale	As above.			
349.61	351.74	1.69	376.88	377.03	0.15		Sandstone.	Greeny grey massive sandstone.			
351.74	354.79	3.04						fine grained.			
354.79	357.53	3.06									
357.53	360.63	3.11									
360.63	363.68	3.09									
							END OF HOLE	(EXTENDED)			

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GEOLOGICAL LOG

SHEET No.

From To

LIFTS			DRILL INTERVAL		Length	BEDDING Angle to Core Axis	ROCK TYPE	DESCRIPTION	ASSAYS		
From	To	Recovery	From	To					% Snt	% Sns	% Cu
1237	1247'0"	10'4"	^{377.03} 1237	^{377.31} 1237 10 1/2"			Sandstone	Light grey fine grained massive sandstone			
1247'0"	1257	11'2"	1237 10 1/2"	1248'6"			Shale.	Mid to dark grey massive shale. Minor inclusion of sandstone.			
1257'0"	1263	4'8"									
1263'0"	1272	9'6"	1241'6"	1248'1"			Sandstone	As above.			
1272'0"	1282	10'3"	1248'1"	1249'7"			Shale	As above.			
1282'0"	1292	10'3"	1249'7"	1366'6"			Sandstone	As above			
1292'0"	1301	8'6"						Vein at 1253'6", Quartz, fluorite,			
1301'0"	1311	9'10"						talc chlorite, actinolite, sphalerite and			
1311'0"	1317	5'11"						molybdenite.			
1317'0"	1327	9'11"						Minor but not uncommon patches			
1327'0"	1337	10'0"						of dark grey shale.			
1337'0"	1347	10'1"						Vein at 1301'0" Quartz, carbonate			
1347'0"	1357	10'7"						chlorite, talc and or sericite, chalcopyrite			
1357'0"	1367	9'3"						fluorite and coarse grained calcite			
1367'0"	1377	10'0"						with rare sphalerite.			
1377'0"	1387	9'9"	1366'6"	1376'7"			Shale.	Dark grey massive shale. Soft and			
1387'0"	1389	2'9"						rarely chlorite			
1389'0"	1397	8'0"	1376'7"	1384'10"			LODE.	Chlorite quartz carbonate actinolite			
1397'0"	1407	10'8"						brown mica, and very rare sulphides, Pb, Py.			

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SHEET No.

From To

LIFTS			DRILL INTERVAL			BEDDING	ROCK TYPE	DESCRIPTION	ASSAYS				
From	To	Recovery	From	To	Length	Angle to Core Axis			% Snt	% Sns	% Cu		
1465'0"	1475'	10'1"		1516'3"				Chest.	Initially mid grey massive chest but becoming whiter and more fractured.				
1475'0"	1476'6"	1'4"		460.32									
1476'6"	1486'0"	10'8"							For sections are intensely fractured, rose bedding is disrupted. Fractures are filled with quartz, rose chlorite, rose brown mica and possibly tourmaline, imparting a dark grey colour.				
1486'0"	1496'6"	9'5"											
1496'6"	1507'0"	10'1"											
1507'0"	1517'0"	10'2"											
1517'0"	1527'0"	10'7"											
1527'0"	1537'0"	9'11"	1510'3"	1516'0"		45°	Altered Chest.	Dark grey, ^{to brown} rock, texture as same as chest.					
1537'0"	1547'0"	9'11"		462.08				Softer than chest, does not fizz with HCl.					
1547'0"	1557'0"	10'2"						Sometimes fine bedded. May be tourmaline but definitely include some chlorite. Particularly towards the end of the section. Considerable v.f.g. brown mica.					
			1516'0"	1529'8"				LODE.	Pyrrhotite, chalcopyrite, extensive chlorite with some brown mica, minor quartz.				
				466.24					Venies within the section include common apposit blade shaped crystals with possibly a hexagonal section.				
			1529'8"	1530'5"	0'9"			Chest.	Greenish white cherty fine bedded chest with much chlorite				
				466.48									

N.W.P.S. COCKINGTON PRINT

HOLE No. C 631

GEOLOGICAL LOG

SHEET No.

From To

LIFTS			DRILL INTERVAL			BEDDING Angle to Core Axis	ROCK TYPE	DESCRIPTION	ASSAYS		
From	To	Recovery	From	To	Length				% Snt	% Sns	% Cu
			1530'5"	1531'9" 466.88	1'4"		LODE	Mostly chlorite, brown mica and some red sulphide			
			1531'9"	1533'1" 467.29	1'4"		Shale.	Mid brownish grey massive shale with minor chlorite.			
			1533'1"	1535'5" 468.01 468.27	2'4"		LODE	Pyrrhotite, chalcopyrite, chlorite, quartz carbonate + brown mica. Sulphides are rare.			
			1535'5"	1536'4"	0'11"		Shale.	Brownish grey massive shale.			
			1536'4"	1547'7" 471.69	11'3"		LODE	Pyrrhotite, chalcopyrite, quartz chlorite carbonate, minor pyrite.			
			1547'7"	1548'9" 472.06 472.21	1'2"		Shale.	brownish grey massive shale. Very hard at in early section.			
			1548'9"	1549'3"	0'6"		LODE	Mostly chlorite, brown mica (v.f.g.) and quartz.			
			1549'3"	1550'6" 472.59	1'3"		Chert.	Chert: white and grey chert.			
			1550'6"				Sandstone.	Fine grained massive brownish grey sandstone.			
								Mineralization at 1553'4" may be seen. ie. 4" wide. Py, Cpy chlorite and quartz.			

