

UR1958/21-31

CORE LOG OLD BATTERY D.D. HOLE ABERFOYLE

X (21)

Location Aberfoyle co-ordinates 1585N; 1120E (Approx)

Inclination 60° (from horizontal) on magnetic

Drilling commenced 7.2.58

RECOVERY

DOWN	DATE	BY	ACIM R F
a bearing	5f	3100	
RECEIVED	MAY 1958		REGISTRAR
ANSWERED			TA II
DEPT. OF MINES			
REC. NO.			

Depth Range	Footage Cored	Core Length	Recovered	Loss	Gain
0 - 22'	-	No Core	(loose talus)		
22' - 28'	6'0"	4'8"		1'4"	
28' - 40'	12'0"	10'0"		2'0"	
40' - 52'	12'0"	10'9"		1'3"	
52' - 65'	13'0"	11'6"		1'6"	
65' - 82'9"	17'9"	16'10"		11"	
82'9"- 96'	13'3"	12'9"		6"	
96' - 108'	12'0"	11'6"		6"	
108' - 119'	11'0"	10'7"		5"	
119' - 132'	13'0"	11'6"		1' 6"	
132' - 145'6"	13'6"	12'8"		10"	
145'6"- 161'	15'6"	15'0"		6"	
161' - 169'9"	8'9"	8'11"		-	2"
169'9"- 184'9"	15'0"	15'1"		-	1"
184'9"- 192'	7'3"	6'10"		5"	
192' - 198'6"	6'6"	6'6"		-	
198'6"- 214'	15'6"	15'6"		-	
214' - 230'	16'0"	15'1"		11"	
230' - 240'	10'0"	6'10"		3'2"	
240' - 253'	13'0"	13'0"		-	
253' - 266'	13'0"	11'8"		1'4"	
266' - 272"	6'0"	3'5"		2'7"	
272' - 276'	4'0"	2'2"		1'10"	
276' - 279'3"	3'3"	3'0"		3"	
279'3"- 286'1"	6'10"	3'9"		3' 1"	
286'1"- 297'10"	11'9"	10'8"		1' 1"	

Depth Range	Footage Cored	Core Length	Recovered	Loss	Gain
297'10" - 305'7"	7'9"	6'5"		1'4"	
305'7" - 318'7"	13'0"	9'6"		3'6"	
318'7" - 320'	1'5"	11"		6"	
320' - 325'	5'0"	1'8"		3'4"	
325' - 329'1"	4'1"	1'7"		2'6"	
329'1" - 331'	1'11"	1'7"		4"	
331' - 343'	12'0"	9'5"		2'7"	

Sludge samples were taken below 297'10"
showing traces of tin and wolfram

H.C. ended at 361' - no more veins

LOG

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<u>FROM</u>	<u>TO</u>	<u>THICKNESS</u>	<u>REMARKS</u>
	22'	22'	No core. Loose talus of Mathinna quartzite and slate.
22'	c. 25'3"	3'3"	Hard massive medium grained quartzite. Thin band of pinkish quartz at 24'. Traces of sulphides.
c. 25'3"	25'6"	3"	Slump - and turbulent bedded siltstone and fine pale grey sandstone (irregular junction at top)
25'6"	27'	1'6"	Shattered hard quartzite and siltstone. Some iron staining, and limonitised spots. Traces of pyrites between 26'6" and 27'.
27'	28'	1'0"	Dark grey siltstone with complex injections of milky quartz. Diagonal fissures across core. Spots of pyrites.
28'	34'6"	6'6"	Fine quartzite with bands of siltstone and silty slate. Thin streaks of pygmaic folded milky quartz.
34'6"	35'4"	10"	Pale grey medium quartzite with thin folded quartz band. Dip across core 65° to 70°.
35'4"	35'7"	3"	Grey siltstone
35'7"	40'	4'5"	Shattered siltstone and slate
40'	40'5"	5"	Dark grey slate, with thin stringers of quartz up to 1/4" thick
40'5"	42'2"	1'7"	Grey medium grained quartzite with some dark slate. Turbulent bedding and slumping. Some thin quartz bands up to 1/4" thick
42'2"	c. 45'	2'10"	Dark grey slate with quartzite showing disturbed bedding. Some shear planes with pyrites in the quartzite.
c. 45'	52'	7'0"	Fine quartzite with bands of dark grey slate. Dip across core 60°. Some bands of medium quartzite; and irregular stringers of quartz.
52'	52'9"	9"	Hard quartzite with frequent fine, dark micaceous partings. Dip across core 60°. Minute pyrite crystals.
52'9"	53'9"	1'0"	Silty slate, with thin bands and streaks of quartzite.
53'9"	58'9"	5'0"	Hard quartzite with fine micaceous partings. Dip across core 55° at 56'9" (Joint across core dips at 50° approximately at right angles to dip of bedding) 1/2" vein at 56'. With pyrite, chalcopryite and

<u>FROM</u>	<u>TO</u>	<u>THICKNESS</u>	<u>REMARKS</u>
			wolfram. Dip across core 50° - 55°.
			<u>1/2" barren quartz vein at 57'9" with 2 thin 1/4" veins leading off, containing sulphides and ? cassiterite</u>
			<u>(Dip across core c. 65°)</u>
			Dip of barren vein 55°.
			<u>1/2" vein with sulphides and ? cassiterite at 58'4"</u>
58'9"	c 61'6"	2'9"	Shattered dark grey silty slate. Some turbulent bedded pale siltstone and fine quartzite. Traces of sulphides.
61'6"	62'1"	7"	Banded dark slate and paler siltstone. Faint turbulent bedding. Dip across core c 50°
62'1"	66'1"	4'0"	Medium grained quartzite with bands of siltstone and silty slate. Dip across core c 55°.
			c 64' 1" irregular quartz vein in 3" band of fine quartzite. Dip across core c 50°. <u>Traces of sulphides</u>
			Joints across core at c 66' dip at 40° (Approximately 90° from dip of bedding)
66'1"	66'7"	6"	Fine quartzite
66'7"	66'9"	2"	Dark siltstone and silty slate, with complex thin quartz stringers.
66'9"	70'9"	4'0"	Hard medium grained quartzite. <u>Film of quartz with muscovite (white mica) at 67'11"</u>
			1" siltstone at 69'4"
			Dip across core 50°-55°
			<u>1/2" quartz vein (69'9" to 70'1") with pyrites and ? minute crystal of cassiterite. Dip across core 65°-70°.</u>
70'9"	71'10"	1'1"	Dark silty slate with thin bands of siltstone and fine quartzite. Dip across core 55°.
			Joint from 71'5" to 71'10" dips at 75°.
71'10"	72'3"	5"	Medium grained quartzite
72'3"	72'5"	2"	quartz with brecciated silty slate
72'5"	72'8"	3"	Dark slate with irreg. quartz stringers in top 1 1/2"
			Dip across core 55°.
72'8"	74'	1'4"	Hard greywacke; some slump-bedded darker slate.
74'	75'	1'0"	Dark silty slate partly brecciated and with irreg. quartz stringers.

<u>FROM</u>	<u>TO</u>	<u>THICKNESS</u>	<u>REMARKS</u>
75'	75'4"	4"	Turbulent bedded silty slate and fine quartzite.
75'4"	79'5"	4'1"	Medium grained quartzite. Finer in places. Some thin bands of dark slate. Dip across core 55°-60°
79'5"	80'4"	11"	Shattered dark silty slate. Irreg. quartz veining from 79'11" to 80'1".
80'4"	83'7½"	3'3½"	Hard medium grained quartzite. Joints dipping at 60° across core. ½" quartz vein at 83'7".
83'7½"	98'1"		Hard medium quartzite. Thin slaty partings dipping 60° across core, between 91'6" and 92'10". Joints dipping 50°-65°. Thin scattered quartz stringers, with traces of sulphides in places. (Dips of quartz stringers variable. Some dip across core 40°. 3 between 89'9" and 90'1" range from horizontal with slight undulations to a dip of c. 25°)
98'1"	99'2"	1'1"	97'6½" ¼" quartz vein. Dip across core 40° 97'8" ¼" quartz vein. Dip across core 30° and 180° from the ¼" vein above.
99'2"	100'2"	1'0"	Dark grey slate: silty in places, with turbulent bedded bands of quartzite showing slumping. Some irreg. quartz veining. Traces of sulphides.
100'2"	102'8"	2'6"	Hard quartzite lower 7" brecciated and veined with thin barren quartz stringers.
102'8"	112'11"	10'3"	Banded quartzite and dark slate. Thin stringers of quartz in top 6". In lower part, quartzite shows faint turbulent bedding. (Dips across cores 50°-55°)
112'11"	117'4"	1'5"	Hard quartzite. Several thin scattered irregular barren quartz veins up to ½" dipping 60°-65° across core. Joint across veins dips at 40°. Shattered between 107' and 108' with joints dipping 65° across core. ¼" quartz vein at 108'1" dipping c 55° across core (Joint dipping at c 40° across core and at right angles to the vein)
			Siltstone and dark slate. A few bands of quartzite up to 3" thick. Some

<u>FROM</u>	<u>TO</u>	<u>THICKNESS</u>	<u>REMARKS</u>
			spotting with sulphides. Thin irregular quartz stringers between 115' and 116'.
117'4"	118'2"	10"	Up to 7" quartz. Irregular and split, with irregular tongue of banded silty slate and siltstone, dipping up to 60° across core.
118'2"	118'9"	7"	<u>Minute crystals of sulphides.</u> Banded slate, and siltstone with fine quartzite. Bedding almost vertical becoming about 70° across core. Traces of sulphides.
118'9"	119'4"	7"	Milky quartz. Irregular junction at top. Traces of sulphides.
119'4"	119'7"	3"	quartzite. Junctions with quartz above and below dip at 40° across core.
119'7"	119'9"	2"	Milky quartz. Traces of sulphides on top plane.
119'9"	130'	10'3"	Hard greywacke. Shattered in places. Faint banding in places dips at 50° across core. Some jointing at right angles to bedding also dips c 50°. One or two bands of dark slate up to 3" thick, with irreg. quartz stringers. <u>129'6" to 130'. 1" quartz vein with sulphides muscovite, purple fluorite ? blende and tin, ? wolfram Dip across core 70°.</u>
130'	130'9"	9"	Dark slate and siltstone with turbulent bedding. Some fine quartzite.
130'9"	131'5"	8"	Barren milky quartz.
131'5"	133'10"	2'5"	Joint planes with muscovite Banded siltstone and fine quartzite with dark slate Dip across core c 40°. <u>132'0 1/2" 1" quartz vein with muscovite, sulphides ? cassiterite.</u> Dip across core 20° at right angles to bedding dips.
133'10"	139'1"	5'3"	Hard quartzite with bands of dark slate up to 3" thick.
139'1"	139'2"	1"	Quartz vein. Traces of <u>silvery sulphides.</u>
139'2"	141'6"	2'4"	Hard quartzite, some slates up to 4" thick. At 140' 1" band of <u>brecciated siltstone infilled with quartz. Sulphides</u>
141'6"	142'	6"	<u>Quartz vein with sulphides</u>
142'	145'6"	3'6"	Hard medium grained quartzite with many thin quartz stringers up to 1/2" thick.

<u>FROM</u>	<u>TO</u>	<u>THICKNESS</u>	<u>REMARKS</u>
			<u>Some sulphides. Traces of cassiterite at c 143'.</u>
145'6"	146'3"	9"	<u>quartz vein, with chalcopyrite.</u> Brecciated quartzite at top and bottom. Joint dips 50°-60° across vein.
146'3"	150'4"	4'1"	Hard quartzite with some thin bands of dark slate. At 149'11" 1" band of finely brecciated slate impregnated with quartz showing small scale faulting. Bands dips at 60° across core. 150'2" - 150'4". Banded and brecciated slate and quartz, dipping at 50° across core.
150'4"	150'10"	6"	Dark, spotted slate, passing into:
150'8 10"	151'1"	3"	Siltstone
151'1"	173'2"	22'1"	Hard medium grained quartzite and siltstone. Some thin stringers of quartz dipping across core at c 50°-60° Traces of sulphides and ? <u>cassiterite</u> Joints dipping across core at c 60°, at right angles to quartz stringers. 172'3"-172'5" Quartz vein Traces of sulphides Dip 40° across core 172'5"-172'9" 1/2" quartz vein barren dip 60° across core.
173'2"	173'7"	5"	Hard dark grey slate. Irreg. quartz impregnation with traces of sulphides.
173'7"	204'	30'5"	Hard medium grained quartzite. Several thin quartz veins up to 1/4" thick with sulphides. Dips 20°-40° across core. <u>176'1"-176'3" 1" barren quartz. Dip across core 50° approx. at right angles to those veins with sulphides</u> <u>178'4"-178'7" 2 1/2" barren quartz. Dip across core 40°</u> Joints in lower part dip c 40° across core at right angles to some veins and 180° from others. <u>190'6"-190'9 10" Thin streak of quartz with sulphides and ? cassiterite dipping 70° across core</u>
204'	204'5"	5"	Shattered quartzite and slate with 1/2" quartz vein showing traces of sulphides.
204'5"	206'1"	1'8"	Hard quartzite with thin quartz stringers.

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FROM	TO	THICKNESS	REMARKS
206'1"	208'2"	2'1"	Silty slate with thin bands of siltstone and greywacke up to 3" thick. Faint slumping and turbulent bedding. Dip across core 55°-60°. 207'8" to 208'. Irregular bands of quartz up to 1/2" thick.
208'2"	211'5"	3'3"	Fine to medium quartzite with faint banding dipping across core 50° - 60°.
211'5"	212'10"	1'5"	Dark slate with faint bands of siltstone showing small scale slumping. Dip across cores 50° - 60°. Irregular bands and stringers of quartz.
212'10"	216'8"	3'10"	Hard quartzite (Medium to coarse grained) Some faint banding and small scale slump bedding, dipping across core at 50°. Joints dipping 60° across core, showing films of sulphides.
216'8"	c 218'	1'4"	Dark slate (Top part shattered) with thin, faint bands of silty slate. Dip across core 60°. Thin irregular stringers of quartz with traces of sulphides.
c. 218'	222'4"	4'4"	Hard fine to medium grained quartzite. Faint banding dipping 60° across core. 219'4" - 219'7" 1/2" quartz veins dipping at 60° across core. Some sulphides.
222'4"	223'4"	1'0"	Dark slate with thin bands of siltstone. Dip across core 60°. 1/2" band of quartz dipping in same direction 1" from top.
223'4"	225'4"	2'0"	Banded quartzite, siltstone and slate. Dip 60° across core.
225'4"	c 236'8"	11'4"	Hard medium to fairly coarse quartzite with 4" band of silty slate 226'2" to 226'6" dipping at 50° across core. 2 thin irregular stringers of quartz up to 1/2" thick dipping in same direction. Some joints dipping at 40° at right angles to bedding dip.

FROM	TO	THICKNESS	REMARKS
			231'6" - 232'
			Banded dark slate and siltstone dipping at 50°-55° across core.
			Shattered core c 235'-235'6" 1" quartz vein in centre. 235'6" - 235'8" 1" quartz vein dipping at 50° across core. Traces of sulphides.
c. 236'8"	240'	3'4"	Shattered silty slate and quartzite (only a few fragments recovered)
240'	244'1"	4'1"	Banded and slump-bedded siltstone, fine quartzite and slate. Dip across core 50° Joint dip 40°-50° across core.
			241'5"-241'7" 1" irreg. quartz vein with sulphides. (Dip similar to bedding).
244'1"	255'8"	11'7"	Hard quartzite 244'9" - 244'10" 1" vein with sulphides and muscovite) Dip 30° at right angles to bedding) Occasional bands of slate up to 2" thick. Faint slumping. Dip of bands 60° across core.
			253'4" - 253'7" 3" quartz vein with sulphides Dip 50° across core.
255'8"	257	1'4"	Shattered quartzite and slate, with 1" quartz vein
257	257'6"	6"	Silty slate, with faint bands of fine quartzite
257'6"	258'	6"	Hard medium grained quartzite
258	258'11"	11"	Dark silty slate, passing down into siltstone and slump bedded quartzite.
258'11"	259'6"	7"	Silty slate, with thin irregular quartz stringers.
259'6"	260'2"	8"	Fine quartzite with thin slate bands. Dip across core 50°
260'2"	264'	3'10"	Medium to fairly coarse quartzite. Some thin bands of slate.
264'	267'4"	3'4"	Shattered banded slate and siltstone spotted with pyrites. Dip across core 55°
			A number of thin quartz stringers in similar direction.
267'4"	268'10"	1'6"	Medium grained quartzite with thin bands of siltstone and slate. Dip across core 50°
			<u>267'9"-267'11" 1" vein with muscovite ? wolfram cassiterite and</u>

FROM	TO	THICKNESS	REMARKS
268'10"	272'	3'2"	<u>sulphides</u> . Dip 50° 180° from banding. Shattered quartzite with siltstone and silty slate. Traces of quartz and sulphides.
272'	273'1"	1'1"	Hard quartzite 272'3"-272'5" 1" vein <u>with muscovite sulphide</u> <u>and ? minute cassiterite</u> <u>crystals</u> . Dip across core 50° Joints dipping 40° (at right angles to vein) coated with pyrites.
273'1"	276'	2'11"	Shattered and jointed fine quartzite and slate. Fragment of 1/2" quartz vein at 275'0" Traces of cassiterite.
276'	287'2"	11'2"	Hard quartzite with bands of siltstone and slate. Dip across core c 50°. Several thin stringers of quartz in same direction up to 1/2" thick. Joints dipping at c 50° across core. Badly fractured in places. <u>c 283' 1/2" vein with</u> <u>muscovite sulphides</u> <u>cassiterite and ? blende</u> . Dip across core 45° c 283'6" 2" band of brecciated quartzite with quartz infilling and stringers. <u>Some small</u> <u>patches of muscovite</u> and sulphides.
287'2"	c 288'	10"	286'7" 1 1/2" barren quartz vein. Dip across core c 45° Banded and slump bedded quartzite siltstone and dark slate. Dip across core c 55°.
c 288'	291'9"	3'9"	Hard silicified quartzite Fine to medium grained 288'6" 1/2" barren quartz vein. Dip across core 50° 288'10" - 289'10" quartz veining down core some brecciation (Barren except for traces of pyrites)
291'9"	295'	3'3"	Siltstone and silty slate. Some slump bedded fine quartzite. Joints dip across core 60° at 293'.
295'	297'10"	2'10"	Hard indurated medium grained quartzite. Much barren quartz veining dipping across cores at c 65°
297'10"	298'5"	7"	quartz with some brecciated quartzite. Only traces of pyrites.

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FROM	TO	THICKNESS	REMARKS
298'5"	c 299'	7"	Shattered quartzite and slate.
c 299'	c302'6"	3'6"	Dark silty slate with slump bedded quartzite 299'2" - 299'3" $\frac{1}{4}$ " quartz vein. Dip across core 40°
c302'6"	c312	9'6"	Hard medium grained quartzite. Much irreg. barren quartz veining (with brecciation) below c 304".
c312	c315'	3'	Silty slate and sandy mudstone. Banded in places. Dip 65° across core. Two thin streaks of muscovite dipping 30° across core. Some jointing.
c315'	318'	3'0"	Dark banded slate and fine sandstone. Dip across core up to 75° Irregular and ptygmatic quartz veining
318'	318'7"	7"	Hard quartzite (last 2" shows vertical contact with slate)
318'7"	320'	1'5"	Hard medium grained quartzite. Some irregular fractures, coated with pyrites.
320'	329	9'0"	Hard medium to fairly coarse quartzite. A number of barren quartz veins up to 1" thick. Dip across core 20°-25° (Some joints with pyrites in same direction)
329'	329'11"	11"	Lower part becoming finer Fine to medium grained quartzite, riddled with barren milky quartz.
329'11"	330'6"	7"	Milky quartz. (Brecciated junctions above and below)
330'6"	331'	6"	Shattered fine quartzite Some thin bands of barren quartz.
331'	331'10"	10"	Barren quartz in brecciated quartzite.
331'10"	332'9"	11"	Hard quartzite
332'9"	333'5"	8"	Dark slate
333'5"	c340'6"	7'1"	Hard medium grained quartzite with bands of slate and siltstone. Dip 70° across core. Occasional thin barren quartz veins.
c340'6"	342'	1'6"	Dark slate with thin bands of fine quartzite and siltstone. Barren quartz veining in lower part.
			<u>c340'8"-340'11" $\frac{1}{4}$" vein with pinite ? cassiterite and ? triplite Dip 55° across core.</u>
342	343	1'0"	Hard quartzite with thin bands of siltstone & slate

(A.H. BLISSETT)