E.L.2548. MAY QUEEN DRILLING PROGRAMME, MALMSBURY, VICTORIA

HALF YEARLY REPORT FOR PERIOD ENDING 20th JUNE,1992.

AUTHOR : G.TAHAN

REPORT DUE : 20th.JUNE, 1992.
CONTRACTING COMPANY : PITTSTON MINERAL VENTURES INT. LTD.
TITLE HOLDER : PITTSTON MINERAL VENTURES INT. LTD.
REF : PRMQJN20.92

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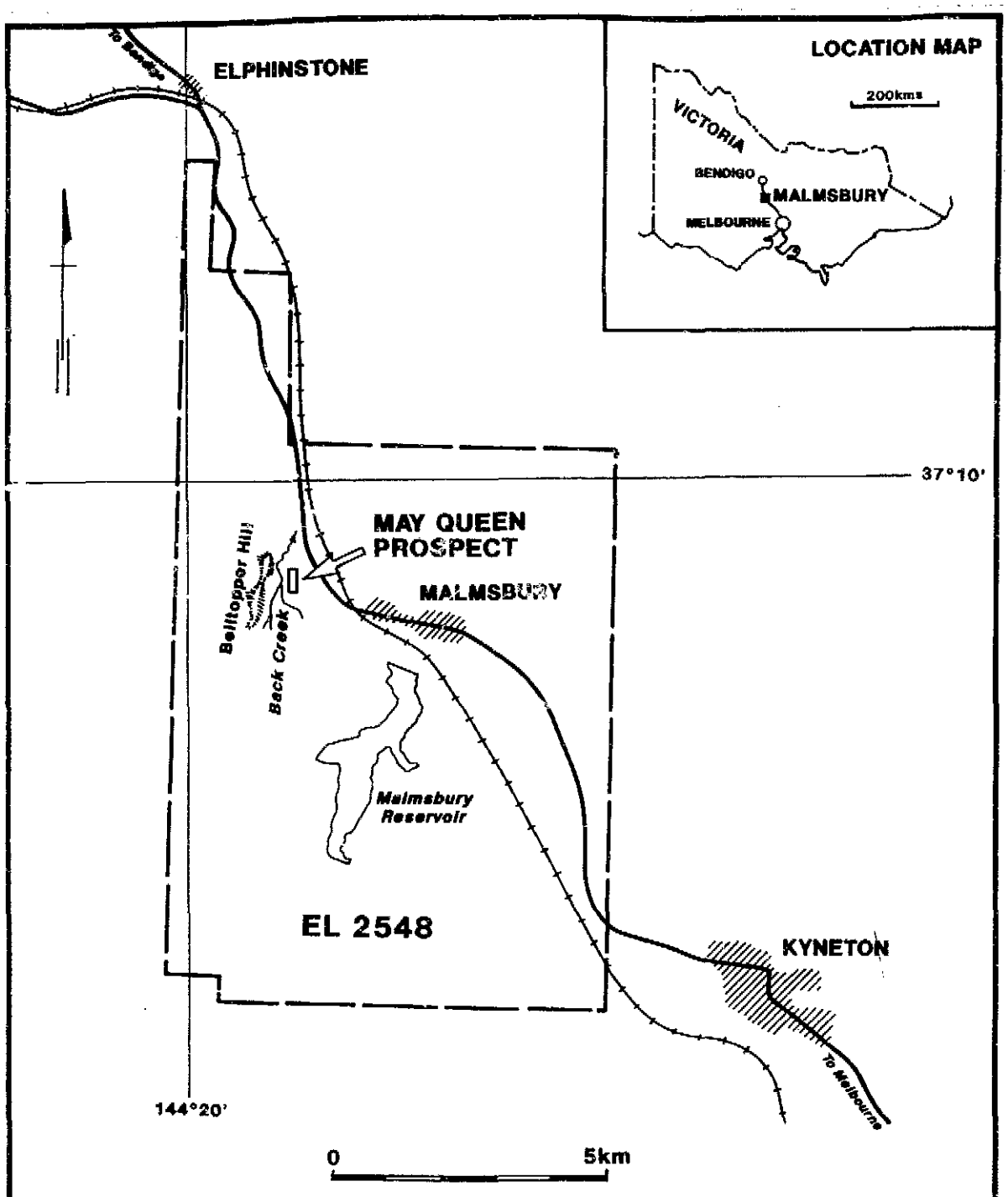
1. ABSTRACT.

Drilling was carried out on the May Queen Saddle Reef. A total of 3 holes were drilled along an anticlinal axis which hosts the May Queen Saddle Reef.

The drillholes successfully intersected the saddle reef but the assay results returned poor gold values.



Map base: 1:100,000 Castlemaine Topo Sheet

PITTSTON MINERAL VENTURES INTERNATIONAL

MALMSBURY PROJECT – VICTORIA

LOCATION OF EL 2548

Prepared: Partzel Tahan & Assoc. Pty. Ltd.

Date: May 1992

Drawn: A.S.Czigler

Fig. 1

2. SUMMARY.

A series of 3 vertical scout holes were drilled for a total of 458.5 metres to test for northern strike extensions to the May Queen Saddle and for stacked saddles below. The programme was successful as far as target intersection was concerned, but, the first two holes penetrated into unrecorded old workings on the May Queen Saddle.

A thin quartz vein, believed to be a saddle underlying the May Queen Saddle, was also intersected in the first hole. This returned poor assay values. The third hole penetrated through the target but here the reef constitutes quartz stringers; set in alternating bands of carbonaceous shales, siltstones and sandstones. Assay results from this section were also poor.

3. INTRODUCTION AND TENURE. FIG.1

E.L.2548 was granted on December 21st. for an initial period of 2 years. The May Queen Saddle Reef is located on a grazing paddock between Belltopper Hill and the Calder Highway. The reef occupies an anticlinal structure and is believed to be the southern extension of the structure hosting the United Kingdom group of mines near Taradale to the north.

The aim of the drilling programme was to determine whether the anticlinal structure hosted stacks of saddle reefs below the May Queen Reef. The historical records indicate that some 1350 tons of rock were treated for a gold yield of about 1500 ounces.

4. GEOLOGY.

4.1 Local Setting

At the May Queen, the sediments include a series of well bedded, relatively undisturbed shales and turbidites.These are cyclically intercalated and alternate in varying thicknesses and ratios which are typical of the Lancefieldian Bendigonian Groups.

The turbidites include siltstones,sandstones and grits with shale and mudstone interclasts. Graded bedding is evident in many of the sections within the turbidites. Otherwise they are massive,lack cleavage and bedding features except in some of the very fine siltstones, particularly where they contain thin bands of shales and mudstones.

The shales vary from light to dark grey through to almost black where carbonaceous debris is prevalent. In many sections they have undergone compressional and other disturbances caused from sudden turbiditic activity whilst the shales were in a plastic, partially consolidated state.

This has generated a number of spectacular features including crenulations , microfaulting , squeeze and shear textures as well as other types of distortion.

Laminations generally reflect bedding and the cleavage patterns are at oblique angles to it. Bedding as well as fracturing and cleavage are lined or filled with clay and very occasionally with thin quartz, generally less than 2mm. thick.

4.2 Mineralisation

Secondary pyrite is ubiquitously disseminated in trace quantities. It takes the form of grains, blebs, euhedral crystals and massive veins along bedding planes, fractures and laminations.

Gold mineralisation was recorded in association with quartz mineralisation, particularly the laminated variety which contains carbonaceous impurities and vuggy textures. Quartz emplacement is structurally controlled ,filling faults, fractures, anticline and syncline openings to form the saddle reefs which are prevalent targets of this field.

4.3 Grades and Historical Production

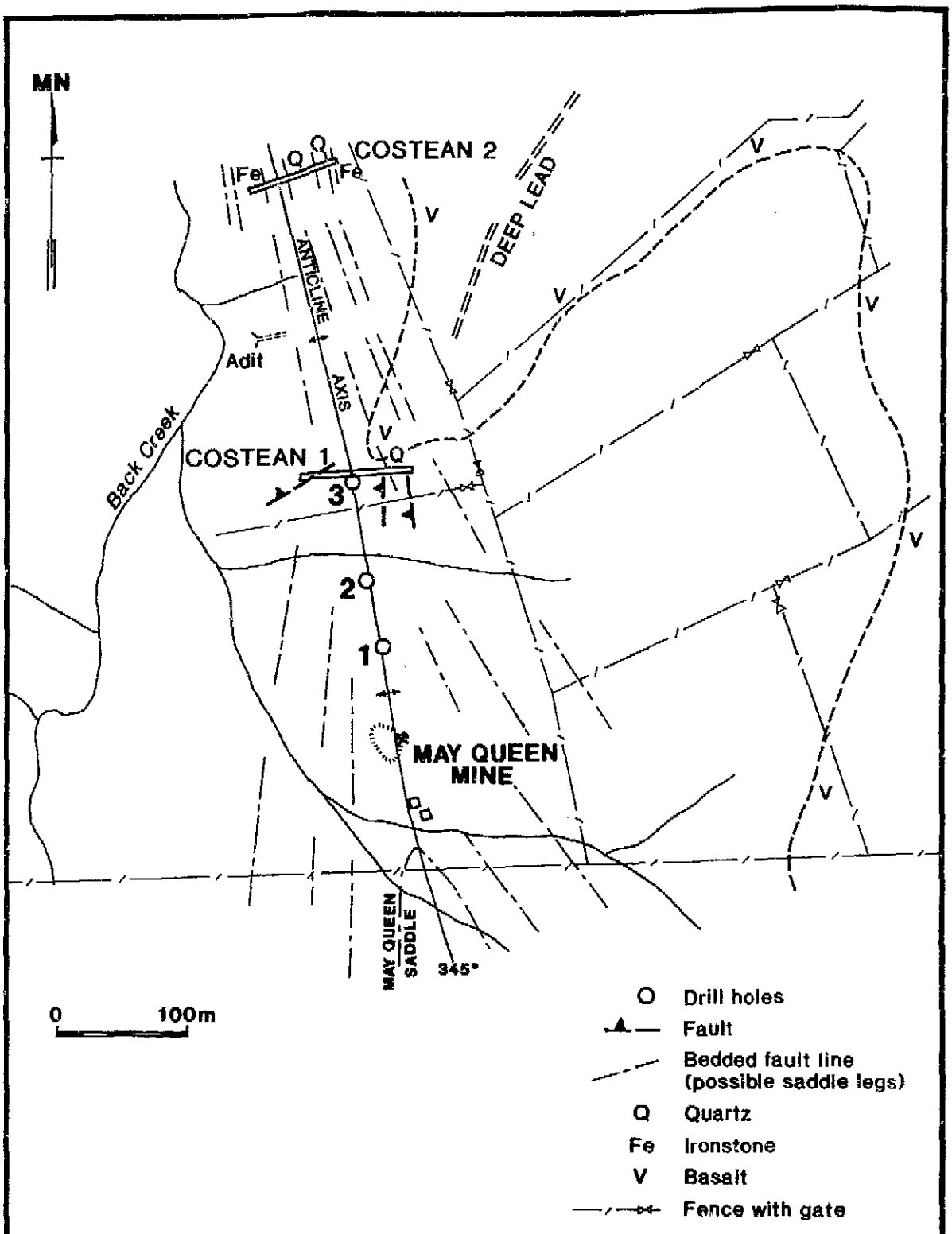
Records show that the total gold production from the May Queen Mine comprises some 1350 tonnes, averaging 36.5g/t. The shaft was developed to a depth of 74m. The auriferous saddle reef was encountered at about 43m. and development took place along the northern plunge and to the south.

5. Drilling Details and Results.
FIG.2 & 3

DDH. 1

This hole was sited 80m. north of the May Queen Mine on the apex of the anticlinal structure. The hole was tricone precollared to 2 m. cased and drilled HQ size to a depth of 29.6m. then it was completed in NQ.

Old workings were intersected between 73.45m. and 76.43m. indicating that the angle of plunge is around 20 degrees



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EL 2548 – MALMSBURY PROJECT – VIC.

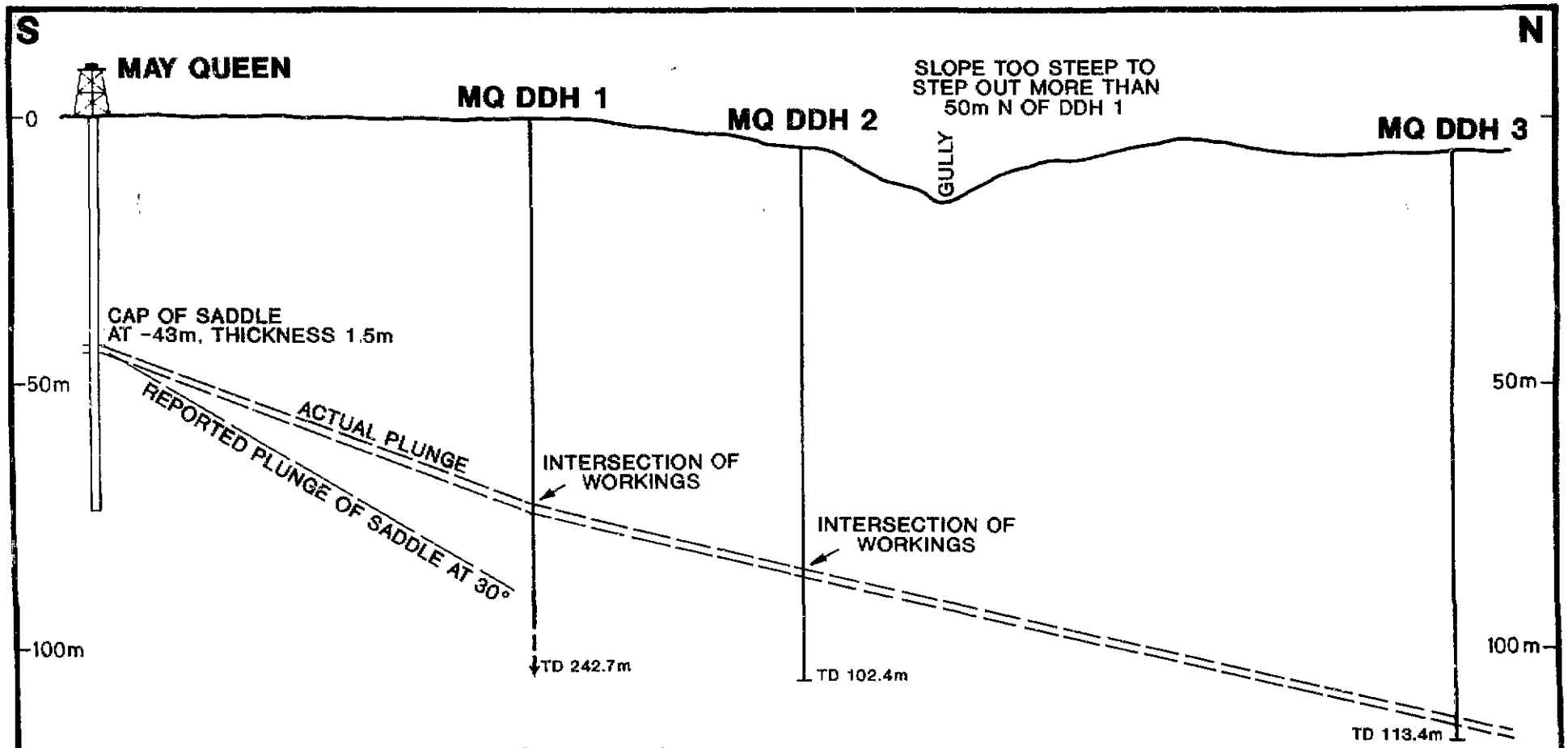
MAY QUEEN PROSPECT

LOCATION OF DIAMOND DRILL HOLES 1–3

Prepared: A.Clayton/G.Tahen

Date: May 1992

Fig. 2



PITTSTON MINERAL VENTURES INTERNATIONAL

EL 2548 – MALMSBURY PROJECT – VIC.

MAY QUEEN PROSPECT

SECTION ALONG PLUNGE OF ANTICLINE

Prepared: Pertzel Tahan & Assoc. Pty Ltd.

Date: May 1992

Fig 3

Whilst quartz and laminated shale was recovered in the core barrel, it is believed that these rock types were from the roof of the workings and probably from loose quartz boulders on the floor of the drive.

The assay results of the quartz are therefore meaningless. Suffice to say however that the position of the saddle reef was successfully intersected.

Having entered the old workings,water circulation was totally lost and it became necessary to ream the hole, case it in HQ rods past the floor of the old workings and proceed towards the lower saddle and to test the possibility that other saddle reefs are stacked between the two known reefs.

The quartz intersected between 206.80 and 207.30m. may represent the lower saddle reef which is reported in the records. It is represented by laminated quartz set in grey and black carbonaceous, laminated shales. (Note that if the anticline tends to be lightly overturned, it is possible that the quartz intersection in this lower zone is in fact the limb of the saddle ,rather than its cap. It is not possible to ascertain this from the core structure). Pyrite is the only recognisable metallic mineralisation occuring in disseminated grains and euhedral crystals and thin veins along the fracture and lamination planes.

Further on, the recovered core comprised a series of shales and turbidites and was terminated at 242.70m.

DDH.2

With the results in DDH.1 it was decided to step out along strike as far as topographically possible and attempt a second vertical hole on the northern plunge extension of the reef.

DDH.2 was sited about 55m. north of DDH.1. Again the hole was precollared to 2m. by tricone drilling and progressed with HQ to a depth of 41.90m. The hole was reduced to NQ size until its completion at 102.40m.

The sequence drilled included a series of the Castlemanine Supergroup shales and turbidites. Stratigraphic correlation is evident in the holes. The carbonaceous zone encountered in DDH.1 between 14 and 22m. was also intersected in DDH.2 between 17 and 25m. It appears therefore that this unit may be considered as a marker horizon when contemplating other holes on this structure.

The saddle reef was intersected between approximately 81.50 and 83.90m. Again the section had been mined but some quartz and shale was recovered in the barrel,possibly from the roof and floor of the workings.

Unlike DDH.1, water circulation was not totally lost in this hole and the only explanation given is that the cavity was full of puggy clay which provided an annulus for the rods.

The hole was continued into the underlying shales and turbidites and was ultimately abandoned at 102.4m.

DDH.3

Because a representation of the saddle reef was not recovered from either of the first two holes, it was decided to drill a third vertical hole on the anticlinal axis,to the north of DDH.2.

DDH.3 was collared 120m. north of DDH.2. The hole was precollared to 48.0m. by reverse circulation before reducing to NQ size core.The precollar cuttings were collected in a cyclone at 1.0m. intervals and representative fractions was taken after riffling.

The section is correlatable with the previous two holes. The top carbonaceous shale zone was encountered between 26 and 32m. Quartz was more abundant in association with the carbonaceous shales in this hole than in the previous two holes.

The zone of interest, -ie. the saddle reef- was anticipated and encoutered at 97m. Here the zone is thicker, consisting of laminated grey and carbonaceous shales, small puggy sections and stringers and thin quartz veins, up to 15 cm. across. The quartz is essentially white, massive, vuggy in places and lacks laminations. Pyrite is fine grained and sparsely disseminated, it also occurs as massive blebs and occasionally as veins along bedding planes and lamination surfaces.The zone of interest is between 97 and 105m. The remaining section of the hole comprises shales and turbidites of the Bendigonian/ Lancefieldian period and was terminated at 113.40m.

6. ASSAY RESULTS.

The assay results show that the hosting sediments are not mineralised despite the presence of favourable chemical agents, normally associated with gold mineralisation.ie.the presence of carbonaceous shales, impurities in the laminations with associated pyrite etc. The highest value was 0.28 ppm Au. and that was recorded over a metre thickness between 100.00 and 101.00 m. in DDH.3. This zone coincides with the position of the saddle reef.

Appendix 1 shows assay results of samples from zones of interest, appendix 2 shows the drill logs.

REFERENCES :

Selley,R.C.,1970 : Ancient Sedimentary Environments,Chapman and Hall

Douglas,J.G.,1988: Geology of Victoria

Southern Continental Mining Ltd. 1983 Reports on E.L.1346

APPENDIX 1:- ASSAY RESULTS.

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Orange Laboratory
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Phone: (063) 631 722. Fax: (063) 631 189.

Client: PITTSTON MINERAL VENTURES
Address: 9TH FLOOR
454 COLLINS STREET
MELBOURNE VIC

Batch Number BE631

Contact: MR G TERHAN

No. of Samples: 70
Date Received: 04/05/92
Date Completed: 08/05/92

Order No. BE631 Sample Type: DRILL CORE

SAMPLE NUMBER	Element Unit Method	Au ppm PM209	Au(R) ppm CHECKS			
DDH1 13.0- 14.0		0.05				
DDH1 14.0- 15.0		0.04				
DDH1 15.0- 16.0		0.25				
DDH1 16.0- 17.0		0.04				
DDH1 17.0- 18.0		0.03				
DDH1 18.0- 19.0		0.03				
DDH1 19.0- 20.0		0.02				
DDH1 20.0- 21.0		0.03				
DDH1 21.0 -22.0		0.03				
DDH1 22.0- 23.0		0.03				
DDH1 23.0- 24.0		0.03				
DDH1 24.0- 25.0		0.03				
DDH1 25.0- 26.0		0.02				
DDH1 41.0- 42.0		0.04				
DDH1 42.0- 43.4		0.07				
DDH1 43.4- 44.0		0.09				
DDH1 44.0- 45.0		0.08				
DDH1 45.0- 46.0		0.03				
DDH1 46.0- 47.4		0.03				
DDH1 47.4- 48.4		0.02				
DDH1 72.0- 72.8		<0.01				
DDH1 72.8- 73.1		0.02				
DDH1 73.1- 73.7		0.02	0.02			
DDH1 73.7- 76.4		<0.01				
DDH1 76.4- 77.0		0.02				
DDH1 77.0- 78.4		0.06				
DDH1 78.4- 79.4		0.04				
DDH1 119.0- 120.0		<0.01				
DDH1 120.0- 121.0		<0.01				
DDH1 206.5- 207.0		0.01				
Detection Limit:		0.01	0.01			

Comments:

BENDIGO LAB
Phone (054) 461 390 Fax (054) 461 389

Signed:

FORM ALS 01(A)

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Orange Laboratory
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Phone: (063) 631 722. Fax: (063) 631 189

Client: PITTSTON MINERAL VENTURES
Address: 9TH FLOOR
454 COLLINS STREET
MELBOURNE VIC

Batch Number BE631

Contact: MR G TERHAN

No. of Samples: 70
Date Received: 04/05/92
Date Completed: 08/05/92

Order No. BE631 Sample Type: DRILL CORE

SAMPLE NUMBER	Element Unit Method	Au ppm PM209	Au(R) ppm CHECKS			
DDH1 207.0- 207.3		0.02	0.02			
DDH1 207.3- 207.8		0.07				
DDH3 50.0- 51.0		0.01				
DDH3 51.0- 52.0		0.02				
DDH3 52.0- 53.0		<0.01				
DDH3 53.0- 54.4		0.01				
DDH3 54.4- 55.5		<0.01				
DDH3 55.5- 56.8		<0.01				
DDH3 56.8- 58.0		<0.01				
DDH3 58.0- 58.9		0.01				
DDH3 58.9- 59.9		0.02				
DDH3 59.9- 60.6		0.01				
DDH3 60.6- 61.0		<0.01				
DDH3 61.0- 62.0		<0.01				
DDH3 62.0- 63.0		<0.01				
DDH3 63.0- 64.0		0.02				
DDH3 64.0- 64.5		0.01				
DDH3 64.5- 65.0		0.02				
DDH3 65.0- 66.0		0.01	0.01			
DDH3 89.0- 90.0		0.01				
DDH3 90.0- 91.0		0.01				
DDH3 91.0- 92.0		<0.01				
DDH3 98.0- 98.6		0.15				
DDH3 98.6- 99.4		0.02				
DDH3 99.4- 100.9		0.02				
DDH3 100.0- 101.0		0.28				
DDH3 101.0- 102.4		0.01				
DDH3 102.4- 103.0		0.01				
DDH3 103.0- 103.8		0.01				
DDH3 103.8- 104.4		0.01				
Detection Limit:		0.01	0.01			

Comments:

BENDIGO LAB
Phone (054) 461 390 Fax (054) 461 389

Signed:

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ient: PITTSTON MINERAL VENTURES
dress: 9TH FLOOR
454 COLLINS STREET
MELBOURNE VIC

Batch Numbe BE631

ntact: MR G TERHAN

No. of Samples: 70
Date Received: 04/05/92
Date Completed: 08/05/92

der No. BE631 Sample Type: DRILL CORE

SAMPLE NUMBER	Element Unit Method	Au ppm PM209	Au(R) ppm CHECKS			
D H3 104.4- 105.4		0.07				
DDH3 105.4- 106.4		0.13				
MQ DD3 22- 24		0.02				
M DD3 24- 26		0.01				
M DD3 26- 28		0.09				
MQ DD3 28- 30		0.05				
M DD3 30- 31		0.01	0.01			
M DD3 31- 32		0.16				
MQ DD3 32- 33		0.07				
MQ DD3 33- 35		0.03				
eter n Limit:		0.01	0.01			

om nts:

BENDIGO LAB
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Signed:

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Orange Laboratory
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Client Address: PITTSTON MINERAL VENTURES
9TH FLOOR
454 COLLINS STREET
MELBOURNE VIC

Batch Number: BE637

Contact: MR G TERHAN

No. of Samples: 21
Date Received: 11/05/92
Date Completed: 13/05/92

Order No. BE637

Sample Type: DRILL CORE

SAMPLE NUMBER	Element Unit Method	Au ppm PM209	Au(R) ppm CHECKS			
DDH 2 17.0- 18.0		<0.01				
DDH 2 18.0- 19.0		0.04				
DDH 2 19.0- 20.0		<0.01				
DDH 2 20.0- 21.0		<0.01				
DDH 2 21.0- 22.0		0.01				
DDH 2 22.0- 23.0		0.01				
DDH 2 23.0- 24.5		0.01				
DDH 2 24.5- 25.0		<0.01				
DDH 2 25.0- 26.0		<0.01				
DDH 2 26.0- 27.0		<0.01				
DDH 2 27.0- 28.0		0.01				
DDH 2 28.0- 29.0		0.02				
DDH 2 29.0- 30.0		0.03				
DDH 2 30.0- 31.0		0.05				
DDH 2 31.0- 32.0		0.01				
DDH 2 32.0- 33.0		0.02				
DDH 2 78.4- 79.4		0.01				
DDH 2 79.4- 80.4		0.01				
DDH 2 80.4- 81.5		0.02				
DDH 2 81.5- 83.9		0.01				
DDH 2 83.9- 85.0		0.05	0.04			
Detection Limit:		0.01	0.01			

Comments: Malmsbury

BENDIGO LAB
Phone (054) 461 390 Fax (054) 461 389

Signed:

FORM ALS O1(A)

APPENDIX 2:- DIAMOND DRILL LOGS

HOLE NUMBER MQ-DDH3 PROJECT DATE 26.04.92 AZIMUTH DIP LOGGED BY GT-

SHEET 7 OF 7

CORE RECOVERY From	To	Rec	%	Size	Graph Log	DESCRIPTION	ASSAYING From	To		PPM-Au		LAB A.L.S.			Sample No
				NQ		104.40 – 104.55 QUARTZ, lug zone – white opaque, quartz is laminated with minor shale inclusions. Py. disseminated along joints & laminae.	104.40	105.40		0.07					
104.40	105.40	90	90			104.55 – 105.70 SHALE – Grey, friable, muddy, soft & broken.									
105.40	106.60	1.10	90	NQ		105.70 – 105.85 QUARTZ, Grey laminated at first 5 centimetres, then massive, vuggy, white – opaque in next 18 centimetres. Py. sparsely disseminated & mainly along laminated sections	105.40	106.40		0.13					
						105.85 – 106.70 SANDSTONE – Grey-olive, micaceous, med. to fine grained, gritty									
106.60	108.40	1.80	100			106.70 – 112.70 50 : 50 SILTSTONE/SHALE, Alternating bands, light and med grey siltstone, is relatively massive fine grained. Shale is laminated at ≤ 5° ≈ 60° to C.A., distorted and convoluted in sections reflecting compressional forces & thin tongues of shale into overlying siltsto & Py. sparsely disseminated.									
108.40	111.40	3.00	100												
111.40	113.30	1.90	100			112.70 – 113.30 SANDSTONE – Med-Coarse gr. in mudstone matrix, gritty & green fragments of volc? origin, white feldspar phenocrysts to 3mm.									

E.O.H. 113.30

HOLE NUMBER MQ DDH.3 PROJECT MALMSBURY MAY QUEEN DATE 25-04-92 AZIMUTH DIP 90° LOGGED BY G.T.
SHEET 6 OF 7

CORE RECOVERY From	To	Rec	%	Size	Graph Log	DESCRIPTION	ASSAYING From	To		PPM. Au	LAB A.L.S			Sample No
						97.26 – 97.30 c̄ 2cm. QTZ. VEIN SPARSE DISS. Py.	101.00	102.40		0.01				
						97.92 – 97.93 c̄ 1cm. " " " " "								
						99.00 – 99.10 — QUARTZ, white opaque fractured c̄ dist. Py. along fractures.								
102.40	103.80	1.10				101.00 – 103.16 SILTSTONE/SHALE, Alternating bands. shale laminated almost ⊙ at 5° to ⊖ lamination shows spectacular crenulations, compression and slump textures, microfaulting || to ⊖. Py. sparsely disem. but w/ up to 2mm. euhedral xals along laminations & bedding planes.	102.40	103.00		0.01				
						80:40 Silt	103.00	103.80		0.01				
						103.16 – 103.26 Pug Zone – muddy shale, carbonaceous.								
						103.26 – 103.36 QUARTZ Massive white opaque traces of disem. Py. mostly concentrated along contact c̄ sediment boundaries.								
						103.36 – 103.80 PUG MUDDY ZONE – < 15% recovery.								
103.80	104.40	40	66			103.80 – 104.40 SHALE/MUDSTONE - Pugy shale is laminated at ≈ 80° – ⊖ sparse Py. xals along lamination	103.80	104.40		0.01				

HOLE NUMBER | PROJECT | DATE 25-04-92 | AZIMUTH | DIP 90° | LOGGED BY G.T. | SHEET 5 OF 7

CORE RECOVERY From	To	Rec	%	Size	Graph Log	DESCRIPTION	ASSAYING From	To		PPm Au		LAB A.L.S.			Sample No
75.10	78.20	3.10	100			76.10 – 80.80 SHALE/SILTSTONE – Alternating									
						RATIO 80:20 bands. shale varying from olive									
						grey to carbonaceous black.									
						distorted in places due to									
						compression from silt stone. Py									
						along bedding contacts in the									
78.20	80.70	2.50	100			shale as massive veinlets.									
						Sparse disseminations in the									
						sandstone & shale.									
80.70	81.90	1.20	100			80.80 – 80.90 SHALE – Black carbonaceous band									
81.90	83.40	1.50	100			80.90 – 83.70 SHALE/SILTSTONE –									
						RATIO 80:20 Grey olive & occasional thin									
						bands of black ? carbonaceous									
						shale – fracture sub // to C.									
						lamination distorted and									
						crenulated.									
83.40	84.30	0.90	100			83.20 – 86.70 SANDSTONE – Grey fine grained									
						massive – turbidite. Py.									
84.30	87.40	3.10	100			sparsely disseminated.									
87.40	89.00	1.60	100			86.70 – 101.00 SHALE – med – dark grey									
89.00	90.40	1.40	100			laminated, crenulated and	89.00	90.00		0.01					
						slumped at 45° – to C.	90.00	91.00		0.01					
90.40	93.40	3.00	100			cleaved sub // to C. Sparse diss	91.00	92.00		0.01					
						Py. in euhedral & amorphous									
93.40	96.40	3.00	100			grains mostly along									
						bedding and lamination									
96.40	98.60	2.20	100			planes. occasional pug	98.00	98.60		0.15					
						zone, possibly along fault									
98.60	99.40	0.80	100			planes + some gloddy fragments	98.60	99.40		0.02					
						& veins of quartz. The pug and	99.40	100.00		0.02					
99.40	102.40	2.00	100			Quartz zones are dt.	100.00	101.00		0.28					

HOLE NUMBER MQ DDH.3 PROJECT MALMSBURY - MAY QUEEN DATE 25.04.92 AZIMUTH DIP 90° LOGGED BY G.T.
SHEET 4 OF 7

CORE RECOVERY From	To	Rec	%	Size	Graph Log	DESCRIPTION	ASSAYING LAB From	To		PPm. Au	Cu/Pb/Zn	A.L.S			Sample No
63.10	64.60	1.50	100	NQ		61.30 – 64.00 SANDSTONE/SILTSTONE – Grey, very fine grained, micaceous massive at 64.00. Contact puggy, 3cm. band of black carbonaceous shale	63.00	64.00		0.02					
							64.00	64.50		0.01					
64.60	65.80	0.40	100			64.00 – 66.00 SILTSTONE/SHALE – Light grey siltstone with alternating dark grey to black carbonaceous shale. 50/50 laminated @ 75° to ○ 1cm. vein of Py. @ 64.70 along a vein // to bedding plane. Often smaller veins filling laminations between 64.40 & 65.00 Py is also sparsely disem. in massive blebs and euhedral xals. Some is fuchsite.	64.50	65.00		0.02					
65.00	66.40	1.40	100				65.00	66.00		0.01	0.01				
						66.00 – 74.68 SANDSTONE – Grey fine grained, massive. Fractured in places & healed with vuggy qtz. & carbonate veins. Those veins are sparse and attain a max. thickness of 1mm. across.									
66.40	67.50	1.40	100												
67.50	69.10	1.60	100												
69.10	72.10	3.00	100			one is 1cm. thick at 72.55. Py. <1%									
72.10	75.10	3.00	100												
						74.68 – 74.80 SHALE – Black distorted & laminated bands, with veinlets of sandstone.									
						74.80 – 76.10 SANDSTONE AS AT 66.00 – 74.68. Bottom half metre containing inclusions and ribbons of shale.									

HOLE NUMBER ~~MQ~~ DDH.3 PROJECT MALMSBURY MAY QUEEN DATE 23.04.92 AZIMUTH DIP 90° LOGGED BY G.T.

SHEET 3 OF 7

CORE RECOVERY From	To	Rec	%	Size	Graph Log	DESCRIPTION	ASSAYING From	To		Pm. Au		LAB A.L.S.			Sample No
48.00	48.40	0.40	100	NQ		48.00 - 55.40 SHALE, Alternating bands of light grey & black carbonaceous shale. Laminations @ 30° to ∅. Distortion in sections due to slumping with Py. sparsely disseminated and in blebs up to 3 mm across.									
48.40	50.50	1.60	100												
50.50	51.80	1.30	100												
51.80	52.70	0.90	100				50.00	51.00		0.01					
52.70	52.90	0.20	100				51.00	52.00		0.02					
52.90	54.00	1.00	66				52.00	53.00		<0.01					
54.40	55.50	1.10	100				53.00	54.40		0.01					
							54.40	55.50		<0.01					
55.50	56.80	1.00				55.40 - 55.70 CLAY - Grey muddy fgy zone	55.50	56.80		<0.01					
56.80	58.90	2.00					56.80	58.00		<0.01					
						55.70 - 58.20 MUDSTONE/SHALE, light grey massive with fragments of green chlorite.									
						58.20 - 58.90 MUDSTONE/SHALE, Grey crush zone.	58.00	58.90		0.01					
58.90	59.90	1.00	100			58.90 - 59.30 SANDSTONE - Grey fine grained, contorted, quartz veins up to 1cm across. Quartz is white crystalline, laminated in some veins vuggy with small growth crystals. Py. sparse in fg.	58.90	59.90		0.02					
59.90	60.60	0.60	90				59.90	60.60		0.01					
						59.30 - 61.30 SHALE Alternating light & dark grey to black, carbonaceous bands. The zone is broken & puggy in places, laminated and fractured and healed with clay, across laminations Py. disseminated, massive in blebs and along fracture planes.									
60.60	61.00	0.40	100				60.60	61.00		<0.01					
61.00	63.10	2.10	100				61.00	62.00		<0.01					
							62.00	63.00		<0.01					

HOLE NUMBER MQ DDH 3 PROJECT MALMSBURY – MAY QUEEN DATE 23.04.92 AZIMUTH DIP 90° LOGGED BY G.T.
SHEET 2 OF 7

CORE RECOVERY From	To	Rec	%	Size	Graph Log	DESCRIPTION	ASSAYING From	To		PPM Au	LAB A-LS			Sample No
32	33					SHALE – Very light grey soft. minor Py.	32.00	33.00		0.07				
33	35					SILTSTONE – Light grey siltstone to sandstone with quartz fragments possibly from veins. ≈ 3% of sample. Minor Py. < 1%	33.00	35.00		0.03				
35	37					SHALE – Light grey.								
37	38					SHALE/SANDSTONE – Light grey alternating bands. Py. disseminated and in euhedral form. Up to 2% quartz fragments suspected contamination – fracture								
38	39					" " – Alternating light & grey bands.								
39	40					" " " " " "								
40	41					" " " " " "								
41	42					" " " " " "								
42	43					SHALE/SILTSTONE – Grey alternating bands Minor Py. < 1% qtz grains, due to contamination.								
43	44					" " – Grey alternating bands < 1% Py.								
44	45					" " " " " "								
45	46					" " " " " "								
46	47					" " " " " "								
47	48					" " " " " "								
	END OF REV. CIRC.													

HOLE NUMBER MQ. DDH.3 PROJECT MALMSBURY — MAY QUEEN DATE 23.04.92 AZIMUTH DIP 90° LOGGED BY G.T. SHEET 1 OF 7

CORE RECOVERY From	To	Rec	%	Size	Graph Log	DESCRIPTION	ASSAYING From	To		PPM Au	CHECK	LAB A.L.S			Sample No
0	2	REC	ORE.			ORANGE BROWN weathered soil									
2	4					" " " "									
4	6					SHALE ?									
						RED (Bauch colouring) highly decomposed									
6	8					" " " "									
8	10					SHALE — Yellow limonitic decomposed									
10	12					" Yellow cream weathered									
12	14					" " " "									
14	16					" " " "									
16	18					" Grey - olive green "									
18	20					" " " " " WATER TABLE									
20	22					" Grey soft weathered									
22	24					" " " "	22.00	24.00		0.02					
24	26					" " " "	24.00	26.00		0.01					
26	28					SHALE Dark grey - black, alternating bands of grey and carbonaceous shale. White opaque QTZ. crystals ≈ 20% of sample. disseminated Py. in qtz & shale. < 2% some euhedral.	26.00	28.00		0.09					
28	30					" light grey soft.	28.00	30.00		0.05					
30	31					SHALE/SANDSTONE " " " ≈ 15% white opaque quartz. Py. disseminated fine in sandstone.	30.00	31.00		0.01	0.01				
31	32					SHALE Dark grey & black carbonaceous quartz in 5% of sample. Py < 2% in euhedral xtls. & diss. in qtz & shale	31.00	32.00		0.16					

HOLE NUMBER MQDDH-2 PROJECT MALMSBURY MAY QUEEN DATE 22.04.92 AZIMUTH DIP VERTICAL LOGGED BY GT.

CORE RECOVERY From	To	Rec	%	Size	Graph Log	DESCRIPTION	ASSAYING From	To				LAB			Sample No
						85.86 – 102.40 SANDSTONE/SHALE - Grey alternating									
						RATIO 70:30 bands. Sandstone varies from									
87.40	90.40	3.00	100	NQ		very fine to med. grained.									
						Some sections are silty. Shale									
90.40	93.40	3.00	100			is laminated, light to med.									
						grey exhibiting cremulations									
93.40	96.40	3.00	100			and distortion due to									
						compression & slumping.									
96.40	99.40	3.00	100			Py. sparsely disseminated.									
99.40	102.40	3.00	100			E.O.H.									

HOLE NUMBER MQ DDH.2 PROJECT MALMSBURY – MAY QUEEN DATE 22.04.92 AZIMUTH DIP VERTICAL LOGGED BY G.T SHEET 4 OF 5

CORE RECOVERY From	To	Rec	%	Size	Graph Log	DESCRIPTION	ASSAYING LAB From	To		PPM. Au	Reject	A.L.S.			Sample No
68.40	70.40	2.00	100	NQ											
70.40	71.40	1.00	100			CORE RATHER BROKEN IN THIS AND BOTTOM OF PREVIOUS RUN.									
71.40	73.00	1.60	100												
73.00	75.50	2.50	100												
75.50	78.40	2.90	100												
						80.80 – 81.25 SILTSTONE - Grey, becoming shaly &									
78.40	81.40	3.00	100			clayey, pugby near the bottom	78.40	79.40		0.01					
						10 cm of section. One or two	79.40	80.40		0.01					
						bands of shale host pseudomorphs of	80.40	81.50		0.02					
						Py.									
						81.25 – 81.45 SHALE – Dark grey laminated &									
						sparse disem. Py.									
81.40	83.10	0.05	CAVITY			81.45 – 81.50 QUARTZ – white opaque crystalline	81.50	83.90		0.01					
						with traces of fine disem. Py.									
						CAVITY PROBABLY FROM 81.50 – 83.75 ? (DO WORKING)									
							83.90	85.00		0.05	0.04				
83.10	83.90	0.15			?	83.75 – 83.90 QUARTZ – White opaque, traces of Py.									
83.90	84.90	0.5	100			83.90 – 84.30 SANDSTONE – grey coarse grained									
						with euhedral & disem. Py.									
						84.30 – 85.30 MUDSTONE/SHALE, light grey Py.									
						finely disem in small euhedral									
						and amorphous grains. Also									
84.40	87.40	3.00	100			as blebs up to 2 mm. ≈ 3%									
						85.30 – 85.86 SANDSTONE – Grey fine grained									
						with finely sparse disem.									
						Py.									

HOLE NUMBER MQ DDH2 PROJECT MALMSBURY - MAY QUEEN DATE 21.04.92 AZIMUTH DIP 90° LOGGED BY G.T SHEET 3 OF 5

CORE RECOVERY From	To	Rec	%	Size	Graph Log	DESCRIPTION	ASSAYING LAB From	To	Sample No
42.40	44.70	2.30	100	NQ		42.45 – 47.90 SILTSTONE/SHALE – Grey alternating bands. Laminated @ 45°-60° to Ø RATIO 50:50 Py. sparsely disseminated up to 1mm blebs – Band of carbonaceous black shale @ 46.60 – 46.65.			
44.70	45.40	0.70	100						
45.40	47.90	2.50	100						
47.90	48.80	0.80	90						
						47.90 – 49.00 SILTSTONE/SANDSTONE – Grey micaceous			
48.80	51.40	1.50				49.00 – 53.40 SHALE – Alternating black & grey bands. Laminations @ 20°-40° to Ø. Py. in euhedral xals. & disseminations. Also along veins. Clay band @ 49.80 – 51.40. Coring approx. 50% core loss. Small qtz vein at 49.00 recovered two small pellets. Laminations show folding, crenulations due to slumping & compression particularly @ base of section. Black shale between 51.40 & 51.60			
51.40	52.90	1.50	100						
52.90	54.40	1.50	100			53.40 – 55.80 SILTSTONE/SHALE, as at 42.45. Sandstone band between 55.70 & 55.80			
54.40	55.30	0.90	100						
55.30	57.00	1.70	100			55.80 – 80.80 SHALE – Grey & alternating black bands of laminated shale, slumped & compressed, crenulated. Py disseminated <2% in large blebs and along fract. planes and laminations. Lotting @ 70° to Ø Cleavage between 30° & sub // to Ø.			
57.00	59.10	2.10	100						
59.10	60.40	1.30	100						
60.40	63.30	2.90	100						
63.30	66.30	3.00	100						
66.30	68.40	2.10	100						

HOLE NUMBER MQ. DDH. 2 PROJECT MALMSBURY – MAY QUEEN DATE 21.04.92 AZIMUTH DIP 90° LOGGED BY G.T. SHEET 2 OF 5

CORE RECOVERY From	To	Rec	%	Size	Graph. Log	DESCRIPTION	ASSAYING From	To		Pm. Au		LAB A.C.S.			Sample No
22.00	23.00	1.00	100	HQ		21.90 – 24.75 SHALE – Grey and dark grey to black alternating bands – laminated @ ≈ 45° to ⊖ minor fine disse. Py some slumping, clay and brecciation between 23.00 & 24.50 m.	22.00	23.00		0.01					
							23.00	24.50		0.01					
24.50	25.00	0.50	100			24.75 – 25.90 SANDSTONE – Grey to olive chloritic med. to coarse grained, gritty. Py. fine euhedral disse. < 2%	24.50	25.00		<0.01					
25.00	26.00	1.00	100				25.00	26.00		<0.01					
26.00	27.00	1.00	100			25.90 – 33.00 SHALE – Alternating light grey to carbonaceous, dark grey laminated @ 4° between 30° & 50° to ⊖. Py. sparsely disse. in blebs and occasional euhedral xals.	26.00	27.00		<0.01					
27.00	28.00	1.00	100				27.00	28.00		0.01					
28.00	29.00	1.00	100				28.00	29.00		0.02					
29.00	30.50	1.50	100				29.00	30.00		0.03					
30.50	31.80	1.30	100				30.00	31.00		0.05					
31.80	33.10	1.30	100				31.00	32.00		0.01					
						33.00 – 39.90 SANDSTONE – Grey-olive med. to coarse grained, micaceous, gritty c occasional thin bands (up to 10 cm) of clayey shale – feldspar pheno-crysts – probably volcanic derivative vug filled with rosy qtz. @ 39.0 c a carbonate mineral? calcite	32.00	33.00		0.02					
33.10	34.00	0.90	100												
34.00	35.00	1.00	100												
35.00	36.50	1.50	100												
36.50	38.00	1.50	100												
38.00	39.00	1.00	100												
39.00	39.50	0.50	100												
39.50	41.00	1.50	100			39.90 – 40.13 SHALE – black to dark grey fine – compressed into underlying siltstone.									
41.00	41.90	0.90	100	HQ		End of HQ									
41.90	42.40	0.50	100	NQ											
						40.13 – 42.45 SILTSTONE/SANDSTONE – Grey fine grained, minor disse. Py.									

HOLE NUMBER MQ DDH 2 PROJECT MALMSBURY MAY QUEEN DATE 20.04.92 AZIMUTH DIP 90° LOGGED BY G.T. SHEET 1 OF 5

CORE RECOVERY From	To	Rec	%	Size	Graph Log	DESCRIPTION	ASSAYING From	To		Pm. Au		LAB A&S			Sample No
0	1.40			TRICONE		ROLLER CONE INTO SOIL & CLAYS									
1.40	2.00	0.60	100	HQ		1.40 – 8.00 SANDSTONE/CLAY, Yellowy oxidised limonitic micaceous fractured @ all ∠s to ⊙ healed c̄ limonite clay – highly decomposed shale. Ratio ≈ 6:1									
2.00	3.50	1.50	100												
3.50	6.00	2.00													
6.00	8.00	1.50													
8.00	9.00	0.60	60												
						8.00 – 13.00 SANDSTONE/CLAY As above – Grey becoming fresher. Ratio ≈ 1:1									
9.00	10.00	0.85	85												
10.00	11.00	1.00	100												
11.00	12.00	1.00	100												
12.00	13.00	1.00	100												
13.00	14.00	1.00	100			13.00 – 15.00 MUDSTONE/SHALE – Grey c̄ minor bands of siltstone. Shale is laminated @ oblique ∠s to core axis c̄ occasional slump textures									
14.00	15.00	1.00	100												
15.00	16.10	1.10	100												
16.10	17.00	0.90	100												
						15.00 – 17.68 SANDSTONE/SILTSTONE, Grey fine grained micaceous									
17.00	18.00	1.00	100				17.00	18.00		<0.01					
						17.68 – 18.20 SHALE – Light grey and black carbonaceous, alternating bands clayey – laminations @ 60° to ⊙ showing crenulations due to slumping. Py very finely disseminated									
18.00	19.00	1.00	100			18.20 – 18.80 SHALE, Black, carbonaceous. No visibly	18.00	19.00		0.04					
19.00	20.00	1.00	100			18.80 – 21.90 SHALE, Grey fine grained, laminated @ ≈ 60° to ⊙	19.00	20.00		<0.01					
20.00	21.00	1.00	100				20.00	21.00		<0.01					
21.00	22.00	1.00	100				21.00	22.00		0.01					

HOLE NUMBER MQ DDH 1 PROJECT MALMSBURY MAY QUEEN DATE 16.04.92 AZIMUTH DIP VERTICAL LOGGED BY G.T. SHEET 11 OF 11

CORE RECOVERY From	To	Rec	%	Size	Graph Log	DESCRIPTION	ASSAYING From	To		PPM Au	LAB A.L.S.			Sample No
207.00	210.10	3.10	100	NQ		206.30 – 208.37 SANDSTONE – Grey olive, med grained, laminated @ 30°-60° to θ	206.50	207.00		0.01				
						At 206.85 – 206.95, Alternating	207.00	207.30		0.02				
						Grey and black shale, laminated								
						as above. Py. disem., euhedral	207.30	207.80		0.07				
						and massive. Also along								
						cleavages or laminations in veins								
						@ 206.95 – 207.08 – White laminated								
						quartz vein – shale along								
						laminations @ 50° to θ.								
						Slumping and distortion along								
						the upper contact with the								
						black shale. Py disem. in								
						blebs, in veins and along								
						laminations to form veinlets.								
210.10	213.20	3.10	100			208.37 – 227.44 SANDSTONE/SHALE, Grey med-fine gr.								
213.20	216.50	3.10	100			6:1 ratio interpolated thin shale laminated								
						bands up to 5 cm across laminations								
216.50	219.40	3.10	100			between 10° & 35° to θ. Py <1% in								
						diss. form & as euhedral xals up								
219.40	222.40	3.00	100			to 2 mm. across, occasional blebs								
222.40	225.40	3.00	100			up to 4 mm. across.								
225.40	228.40	3.00	100			227.44 – 237.25 SHALE – Grey laminated & crenulations.								
228.40	231.40	3.00	100			237.25 – 239.50 SANDSTONE/SHALE, Grey alternating band-								
231.40	234.40	3.00	100			sandstone in fine gr. to gritty & shale								
234.40	237.40	3.00	100			inclusions. Scour & fill marks on								
237.40	238.50	1.10	100			contacts with shale – Shale								
238.50	240.00	1.50	100			laminations @ 30° θ. Py. in fractures & diss.								
240.00	240.50	0.50	100											
						239.50 – 242.70 SANDSTONE – Arkose – ? Volc. Grey coarse								
						grained, Py. <1% diss. & cubed xals.								
						occasional clay patches.								

HOLE NUMBER MQ. DDH 1 PROJECT MALMSBURY MAY QUEEN DATE 15-04-92 AZIMUTH DIP VERTICAL LOGGED BY G.T. SHEET 10 OF 11

CORE RECOVERY From	To	Rec	%	Size	Graph Log	DESCRIPTION		ASSAYING From	To	LAB						Sample No
165.20	168.30	3.10	100	NQ		166.50 — 183.20	SANDSTONE - Grey, med - coarse grained partly silicified, hard. Py. < 1% as smears and veins along fractures. Also in euhedral xals & in massive blebs.									
168.30	171.40	3.10	100													
171.40	174.40	3.10	100			Bit change										
174.40	177.40	3.00	100													
177.40	180.40	3.00	100													
180.40	183.40	3.00	100													
183.40	186.40	3.00	100			183.20 — 185.70	SHALE / MINOR SILTSTONE, Grey shale showing cleavage or laminations predominantly @ 25° - 35° ∅, also some slumping and compressional features. Siltstone is fine grained. Py. < 1% in diss. form									
186.40	187.90	1.50	100			185.70 — 189.70	SILTSTONE / SANDSTONE - Grey fine grained / Py. < 1% dissem.									
187.90	190.90	3.00	100													
190.90	192.40	1.50	100			189.70 — 198.30 5:1	SHALE / SANDSTONE Grey alternating bands. Shale laminated & @ 10°-20° to ∅ except where slumping has taken place & ∆° are up to almost ∥ to ∅ - Pug zone with two small laminated Qtz veins up to 0.5 cm across ∥ to cleavage or laminations ∥ Py. < 1% Diss									
192.40	194.60	2.20	100													
194.60	196.90	2.30	100													
196.90	198.20	1.30	100													
198.20	201.30	3.10	100			198.30 — 206.80 Ratio 6:1	SANDSTONE - Grey dive, med - fine gr. fractured core ∥ to ∅ - microscopic - healed with Si & occasional fg. Blebs, euhed. xals to 2mm. occasional - 15-20 cm shale bands show cleavage laminations & slump structures									
201.30	203.40	2.10	100													
203.40	204.40	1.00	100													
204.40	207.00	2.60	100													

HOLE NUMBER MQ DDH 1 PROJECT MALMSBURY MAY QUEEN DATE 15-04-92 AZIMUTH DIP VERTICAL LOGGED BY GT SHEET 9 OF 11

CORE RECOVERY From	To	Rec	%	Size	Graph Log	DESCRIPTION		ASSAYING From	To							Sample No
132.40	135.40	3.00	100	NQ		134.94 – 140.00	SHALE/SANDSTONE, SILTSTONE :– Grey alternating bands med. to fine grained SST. & SLTSTN. laminated shale 15°–25° TO θ Some sections compressed. 1 cm qtz. @ 135.57. Puggy zone at 140.25–140.40. 2 cm. qtz vein @ 140.25. Both veins are glassy, white to dark grey, laminated, minor Py. along laminations and in disseminations.								
135.40	138.40	3.00	100			50 : 50										
138.40	141.00	2.60	100													
141.00	143.40	2.40	100			140.00 – 143.00	SANDSTONE – Grey med–coarse grained and gritty in places.									
143.40	144.50	1.10	100			143.00 – 150.20	SHALE/SILTSTONE, SANDSTONE grey med – fine grained – shale is laminated @ 20° θ Py. <1% in euhedral and dissem. form.									
144.50	145.50	1.00	100			40 : 60										
145.50	147.40	1.90	100													
147.40	150.20	2.80	100			150.20 – 166.50	SANDSTONE/SILTSTONE – Grey, med. to fine grained coarsening at base of unit. Gritty in places. alternating laminated shale, laminations @ 20 θ. Py. <1% euhedral and along lamination									
150.20	151.50	1.30	100			50 : 40 – SHALE 10										
151.50	153.40	1.90	100													
153.40	156.40	3.00	100				QUARTZ – White, milky, healing fractures @ 45° θ – Zone of veining between 452.60 – 452.70. Veins are vuggy c well defined xals – no visible sulphides.									
156.40	159.00	2.60	100													
159.00	162.10	3.10	100													
162.10	165.20	3.10	100													

HOLE NUMBER DDH. 1 PROJECT MALMSBURY MAT QUEEN DATE 15.04.92 AZIMUTH 1 DIP VERTICAL LOGGED BY G.T.

SHEET 8 OF 11

CORE RECOVERY From	To	Rec	%	Size	Graph Log	DESCRIPTION	ASSAYING From	To	LAB						Sample No
132.40	135.40	3.00	100			134.94 – 140.00 SHALE/SANDSTONE SILTSTONE – Grey alternating bands, med – fine grained siltstone & sandstone. Shale is laminated at 5° 15° – 20° to Ø – some sections are compressed – 1cm quartz band @ 138.87m.									
135.40	138.40	3.00	100			50/50									
138.40	141.00	2.60	100												
						puggy zone/possibly fault 30° @ 140/25 – 140.40. 2cm quartz vein @ 140.25 both veins are glassy, white to dark grey, laminated. minor Py present in lamination planes and in diss. form.									
141.00	143.40	2.40	100			140.00 – 143.00 SANDSTONE – Grey med – coarse grained & gritty in places									

HOLE NUMBER MQ DDH 1 PROJECT MALMSBURY MAY QUEEN DATE 14.04.92 AZIMUTH DIP VERTICAL LOGGED BY G.T. SHEET 7 OF 11

CORE RECOVERY From	To	Rec	%	Size	Graph Log	DESCRIPTION	ASSAYING From	To		PPM-Au	LAB ALS			Sample No
117.40	120.40	3.00	100	NQ		117.40 – 123.70 RATIO 80/10/10 SHALE/SILTSTONE/SANDSTONE, Grey alternating bands – Siltstone is fine grained, shales show cleavage or laminations @ 15°-30° to core axis. Sandstone is red – fine grained and occasionally micaceous. Py. < 1% in euhedral and amorphous disseminations.	119.0	120.0		<0.01					
120.40	123.40	3.00	100			120.20 – 120.25 QUARTZ – White to dark grey laminated with euhedral massive and vein Py. along laminations and within the quartz contact with the siltstone – Slightly Chloritic.	120.00	121.00		<0.01				
124.40	126.40	3.00	100			123.70 – 128.76 50:50 SHALE/SILTSTONE – grey laminated (Bedding or Cleavage) – distorted due to compaction. laminations @ 15°–25° to core axis. Py. diss. in euhedral xals and massive, predominantly along laminations and constitutes < 1%								
126.40	129.40	3.00	100			128.76 – 134.94 50:50 SANDSTONE/SILTSTONE Grey alternating bands, red – fine grained occasional thin shale bands, laminated. Py. Euhedral along laminations < 1%								
129.40	132.40	3.00	100											

HOLE NUMBER MQ. DDH 1 PROJECT MALMSBURY MAY QUEEN DATE 12.04.92 AZIMUTH DIP VERTICAL LOGGED BY G.T.
SHEET 6 OF 11

CORE RECOVERY From	To	Rec	%	Size	Graph Log	DESCRIPTION	ASSAYING From	To		Ppm. Au		LAB ALS			Sample No
76.40	77.60	1.20	100	NQ		76.43 – 78.43 SANDSTONE Grey, fine - med grained, gritty and clayey in patches	76.40	77.00		0.02					
77.60	78.40	0.40	50				77.00	78.40		0.06					
78.40	81.40	3.00	100			78.43 – 82.29 SHALE/SILTSTONE. Alternating banded, clayey along joints, grey microcrystalline. Joints very fine 30° to ∥ to core axis. Ratio 60:40	78.40	79.40		0.04					
81.40	84.40	3.00	100												
						82.29 – 83.00 SANDSTONE. Grey to very light blue med. – fine grained <1% dis. Py. altering to limonite									
84.40	87.10	2.05	76			83.00 – 91.10 SILTSTONE/SANDSTONE/SHALE Ratio Proportional. Grey alternating bands, microcrystalline, occasional euhedral Py. xals. up to 2mm across. Fragments of white opaque quartz @ 84.87 and @ 89.20 m.									
87.10	90.00	2.90	100												
90.00	92.80	2.80	100			91.10 – 117.40 SILTSTONE/SHALE. Grey fine grained microcrystalline occasional euhedral Py. xals. Py. also along laminations in quartz veins up to 3mm across. Cleavage and fracturing healed c̄ clay. These are ∥ to c axis. Bedding and laminations at almost 20° to c axis except where slumped. Latter resulting in microfaulting and contortioning of the shale. Py. vein @ 114.94 @ 20° c axis vein filling fracture. Py. boundary. Ratio 50:50									
92.80	95.90	3.10	100												
95.90	97.60	1.70	100												
97.60	97.80	0.20	100												
97.80	99.40	1.60	100												
99.40	102.40	3.00	100												
102.40	105.40	3.00	100												
105.40	108.40	3.00	100												
108.40	111.40	3.00	100												
111.40	114.40	3.00	100												
114.40	117.40	3.00	100												

HOLE NUMBER MQ DDH 1 PROJECT MALMSBURY MAY QUEEN DATE 12.04.92 AZIMUTH DIP VERTICAL LOGGED BY G.T. SHEET 5 OF 11

CORE RECOVERY From	To	Rec	%	Size	Graph Log	DESCRIPTION	ASSAYING LAB From	To		Ppm. Au	CHECK	ALS			Sample No
61.80	63.40	1.40	100	NQ		70.94 — 72.45 SHALE Smitty band between 70.94 and 72.45									
63.40	65.40	2.00	100												
65.40	66.40	1.00	100												
66.40	67.90	1.00	66												
67.90	69.20	1.30	100												
69.20	72.20	3.00	100												
72.20	73.70	1.10	60			72.45 — 73.25 SHALE Grey, cleavage ∥ to core axis, bedding @ 45° - 60° to C axis. Py. ≈ 10% dissem along bedding planes.	72.00	72.88		<0.01					
							72.80	73.10		0.02					
						73.25 — 73.40 SANDSTONE Grey fine grained micaceous — tr. Py.									
						73.40 — 73.45 QUARTZ White, crystalline opaque									
						END OF HOLE 73.70 * CAVITY BETWEEN 73.45 — 73.70	73.10	73.70		0.02	0.02				
73.70	74.90	35	29			73.70 — 73.75 ? QUARTZ White glassy opaque occasional dissem. Py. & Py. veins along fractures.									
						73.75 — 73.80 SANDSTONE. Med. - fine grained grey									
						73.80 — 73.83 QUARTZ AS ABOVE									
						73.83 — 73.87 WOOD From old workings.									
						73.87 — 73.99 ? QUARTZ — As above									
74.90	76.40	10	6			74.90 — 76.43 CAVITY — Also recovered in core barrel is glassy quartz as above. Possibly from floor of workings Diss. Py. QTZ. tends towards grey in places	73.70	76.40		<0.01					

HOLE NUMBER | PROJECT MALMSBURY MAY QUEEN | DATE | AZIMUTH | DIP VERTICAL | LOGGED BY G.J. | SHEET 4 OF 11

CORE RECOVERY From	To	Rec	%	Size	Graph Log	DESCRIPTION	ASSAYING From	To		Pm. Au		LAB ALS			Sample No
						dissem. py. Sections of the sandstone contain bands of shale up to 1cm across, reflecting quiet conditions of deposition between turbidity cycles. These have undergone compressional stress resulting in distortion exhibiting crenulations and microfaulting.									
47.40	48.40	0.70	70	NQ		47.40 – 52.00 RATIO 50:50 SILTSTONE/SHALE. Alternating bands, grey to light grey, bands	47.40	48.40		0.02					
48.40	49.20	0.80	100			Siltstone is fine grained with distinct bedding/cleavage features which dany through all angles to the core axis mostly as a result of distortion. This exhibits some spectacular structural features. The sandstone component fine – med. grained, gritty in places massively compacted. Py. in <1% in dissem. form and as amorphous blebs. Thin bands of shale disintegrate in the core barrel. Thin qtz veins <3mm thick between 48.7 & 49.00.									
49.20	50.00	0.90	100												
50.00	51.50	1.50	100												
51.50	52.60	1.10	100			52.00 – 70.94 SILTSTONE/SHALE As above. Py. <1% in fine dissem. form. Blebs and euhedral xals up to 2mm. across, some along fracture planes and bedding interfaces.									
52.60	54.40	1.80	100												
54.40	57.20	2.80	100												
57.20	60.00	2.80	100												
60.00	61.80	1.80	100												

HOLE NUMBER MQ DDH.1 | PROJECT MALMSBURY MAY QUEEN | DATE 12.04.92 | AZIMUTH | DIP VERTICAL | LOGGED BY G.T. | SHEET 3 OF 11

CORE RECOVERY From	To	Rec	%	Size	Graph Log	DESCRIPTION	ASSAYING From	To		PPM Au		LAB BLS			Sample No
39.40	40.10	0.70	100	NQ		39.40 - 41.30 SANDSTONE Grey fractured, medium fine grained, gritty quartz frags. ents an angular, strong fractured and healed with clay. Py. ubiquitously disseminated blebs and as euhedral crystals - Py. ≈ 3%									
40.10	41.20	1.10	100												
41.20	43.40	2.20	50%				41.00	42.00		0.04					
							42.00	43.40		0.07					
						41.30 - 41.50 SHALE Dark grey to blackish fine grained, very finely disse. Py. ≈ 2%	43.40	44.00		0.09					
						41.50 - 43.00 SANDSTONE Gritty, grey to light olive green, coarse grained feldspathic. Glassy - possibly a highly altered decomposed volcanic? Py. sparsely disseminated < 1%									
						43.00 - 43.75 CLAY/SHALE Dark grey to black, puggy. 1.5 cm glossy opaque quartz vein @ 43.75 at 45° to core axis. with disseminated py along the contact with the clay-shale host.									
43.40	45.40	0.50	50			43.75 - 47.40 CLAY/SHALE/SANDSTONE Alternating bands, sandstone is light grey to light olive. Shale is dark grey to black carbonaceous < 5% Py. ubiquitously disse. in amorphous and euhedral xals. Crushed zone between 45.90 & 46.30 contains glassy opaque quartz veins to 2 cm. across. c fine	44.00	45.00		0.08					
						Ratio 20:40:40	45.00	46.00		0.03					
45.40	46.00	0.55	90												
46.00	47.40	1.00					46.00	47.40		0.03					

HOLE NUMBER MQ DDH 1 PROJECT MALMBURY - MAY QUEEN DATE 10-04-92 AZIMUTH DIP VERT. LOGGED BY G.T.

CORE RECOVERY From	To	Rec	%	Size	Graph Log	DESCRIPTION	ASSAYING From	To		PPM-Au	LAB ALS			Sample No
						Some of the sections are very decomposed and broken. Py is in disseminated form but sparse, alt. to lim. Cumulation and micro-structural features and brecciation arising from compression and slumping.								
21.60	23.00	1.20	80	HQ		22.00 - 27.30 SANDSTONE/SILTSTONE Medium to fine grained light grey to buff	23.00	24.00		0.03				
23.00	24.00	0.80	80				24.00	25.00		0.03				
24.00	25.30	1.00	76			≈ occasional bands of	25.00	26.00		0.02				
25.30	26.00	0.70	100			Dark shale, laminated at								
26.00	27.50	1.50	100			≈ 45° to core axis. Clay								
27.50	29.00	1.10	73			bands up to 5 cm. across.								
29.00	29.60	0.50	83	END HQ.		<1% Py. sparsely disseminated								
29.60	30.40	0.80	100	NQ		throughout the sandstone								
30.40	31.70	1.30	100			Occ. in Euhedral xals up								
31.70	32.90	1.10	91			to 2 mm. across. Qtz grains								
32.90	33.70	0.80	100		CORE VERY BROKEN - CLAY	in the sandstone are								
33.70	33.90	0.20	100		BANDS WASHED AWAY.	angular and sho. p. Silstone								
33.90	34.90	0.80				bands and shales exhibit								
34.90	36.30	1.00				compressional fracturing								
36.30	37.30	1.00	100	NQ		resulting in microfaulting								
						37.30 - 39.40 SANDSTONE Gritty light grey,								
37.80	39.40	0.60	100	NQ		partially silicified, med.								
						to predominantly fine								
						grained - quartz component								
						is angular grains. < 3%								
						Py. in Disem. and Euhedral								
						xal form up to 2mm. across								

HOLE NUMBER MQ DDH 1 PROJECT MALMSBURY – MAY QUEEN DATE 10-04-92 AZIMUTH DIP VERT. LOGGED BY G.T. SHEET 1 OF 11

CORE RECOVERY From	To	Rec	%	Size	Graph Log	DESCRIPTION	ASSAYING From	To		PPM Au		LAB ALS	BGS		Sample No
0	2.00					TRICONE BIT. SLAY/SHALE – Orange brown & cream. with soil profile material including some qtz. fragments									
2.00	5.00	2.60		HQ		2.00–7.30 SILTSTONE/SHALE Weathered, finely laminated									
						RATIO 4:1 brown and grey silty in places,									
5.00	6.20	1.20	100			fractures, poorly clay cleavage									
						at oblique angles to core axis									
						healed with limonite. This									
						alternates with the narrow									
						shale bands which are also									
						laminated and exhibit the									
6.20	8.00	1.50				same features as the siltstone.									
8.00	9.50	1.40				7.30 – 14.40 SHALE Grey, massive – cleavage @									
9.50	11.00	1.50	100			30° to core axis. Thin clay band									
11.00	13.00	2.00	100			(a few mm. thick) along									
13.00	13.80	0.80	100			cleavage planes. Sparce disse.	13.00	14.00		0.05					
13.80	15.30	0.75	50			Py. altering to limonite.									
						Py. also along fractures and	14.00	15.00		0.04					
						cleavage planes.									
						14.40–22.00 SHALE Black, carbonaceous and									
15.30	16.10	0.80	100			grey clayey alternating bands	15.00	16.00		0.25					
16.10	17.00	0.90	100			laminated @ ∡° between 60° & 80°	16.00	17.00		0.04					
17.00	18.30	1.10	90			to core axis. Cleavage @ ≈30°	17.00	18.00		0.03					
18.30	19.10	0.80	100			to core axis and oblique to	18.00	19.00		0.03					
19.10	20.00	0.80	90			bedding or laminations.	19.00	20.00		0.02					
20.00	21.50	1.40	87			Limonite healed and sheared	20.00	21.00		0.03					
21.50	23.00	1.20	80			fractures and cleavages.	21.00	22.00		0.03					
							22.00	23.00		0.03					