

Mc ARTHUR RIVER MINING

DIAMOND DRILL HOLE HEADER SUMMARY SHEET

HOLE I.D.	:97/6	LOCATION (eg.drive name)	:2H8
GRID AZIMUTH	:130	DESIGN DEPTH (m)	:180
COLLAR INCLINATION	:-44	TOTAL DEPTH (m)	:190.1
<u>SURVEYED COLLAR CO-ORDINATES</u>		DATE STARTED	:06/12/97
EASTING	:7749.142	DATE FINISHED	: 11/12/97
NORTHING	:1626.645	DRILLED BY	:LONGYEAR
RL	:9667.649	<u>CORE INTERVALS ASSAYED:</u>	
HOLE/CORE SIZE(S)	:HQ	150.0-155.4 (I2/3)	
	:	155.4-176.8 (#2)	
	:	176.8-181.0 (I1/2)	
LOGGED BY	: TJA	1/4 core to Lab, 1/2 core met testing	
D/HOLE SURVEY METHOD	:EASTMAN SS	LOCAL MAG. DEV.	: + 5
		(add to downhole survey azim. reading)	

RAW DOWNHOLE SURVEY DATA

Depth (m)	Azimuth(Mag)	Dip	Depth (m)	Azimuth(Mag)	Dip
10	130	-44	120	132	-45
30	129	-44	150	135	-44.5
60	132	-44.5	180	134	-46
90	134	-44.5			

ASSAY SUMMARY

Core Orientation Mark
 152.0 m - $S_0 = -30^\circ \rightarrow 142^\circ$ ✓

O/B	TT	Zn%	Pb%	Ag g/t	Fe%
I2/3	0.5	8.3	1	24	13.7
#2	3.7	19.9	6.6	73	6.3
I1/2	0.7	2	0.6	8	7.7

Surveyed Collar & Geology Entered Into Micromine Database

:SP 03/98

Assays Entered Into Micromine Database

:SP 03/98

Surveyed Collar & Geology Transferred Into Vulcan Database

: SP 18/04/98

Assays Transferred Into Vulcan Database

: SP 18/04/98

Comments: HOLE SUCCESSFULLY INTERSECTED #2OB

MET. 1/2 CORE SAMPLES OF #2OB AND WASTE BEDS STORED IN CHILLER

REMAINING 1/4 CORE SAMPLED FROM #2 OB FOR ORGANIC GEOCHEMICAL SAMPLING BY

M. WALTONS @ THE FOLLOWING LOCATIONS :

2/3 bags 150.6 m (10m)

2 ob 162.1

" 164.6 (3cm)

" 174.4 - 174.5

ANALOG 141009

McARTHUR RIVER MINING GEOLOGICAL LOG SHEET

GEO		TJA		VERSION		HOLE		PAGE		COMMENTS																							
DATE		1/12/97		97/6		1 of		15/01/95																									
GEOLOGICAL			STRUCTURE			FAULTING			ALTERATION			SILICIDES			CORE			DEPTH			BCA			OTH			D			A2			
TO	COL	WTH	CODE	G	LITH	TEX	DOL	VEIN	NO	CR	CO	RY	MIN	TYP	NAME	Q	OxJ	REC	CORE	CUT	DEPTH	BCA	A1	OTH	D	A2	COMMENTS						
7	3	3	FR	HYC	-	SI	C	I	S	-	-	-	-	-	-	1	-	100	HQ	-	7	3	3	3	3	3	30	Interbedded Shales/Pal Breccias.					
27	5	W	FR	WFS	-	MS	M	I	S	-	-	-	-	-	-	L	-	100	HQ	-	-	40	-	-	-	-	Massive Pale Tectonic Slump Breccia.						
80	0	GR	FR	WFS	-	SH	L	I	S	-	-	-	-	-	-	M	-	100	HQ	-	68	6	35	-	30	Chlorite Altered green shales, full sequence.							
118	0	GR	FR	WFS	-	SI	B	I	S	-	-	-	-	-	-	L	-	100	HQ	-	97	2	20	-	90	Interbedded red/green beds.							
128	0	W	FR	TUM	-	D	M	I	S	-	-	-	-	-	-	M	-	100	HQ	-	128	0	35	-	45	Massive Dolomitic siltstone zone							
139	5	W	FR	TUM	-	XT	C	I	S	-	-	-	-	XT	WOZY	FA	-	100	HQ	-	139	5	35	-	45	bedded Wozy Fault zone.							
142	0	GY	FR	I23	-	H	L	I	S	-	-	-	-	-	-	L	-	100	HQ	1/2	-	0	-	-	-	-	Nodular Pyritic Shale I2/3.						
143	6	BU	FR	I23	-	TH	M	I	S	-	-	-	-	-	-	L	-	100	HQ	1/2	-	5	-	-	-	-	Top hard with pig bottom.						
154	8	GY	FR	I23	-	H	L	I	S	-	-	-	-	-	-	L	-	100	HQ	1/2	144	5	5	-	70	Nodular Pyritic Shale I2/3.							
155	9	GY	FR	I23	-	SL	B	I	S	-	-	-	-	-	-	B	-	100	HQ	1/2	-	5	-	-	-	#2 Hw Marker. Graded Beddet.							
156	2	GY	FR	2A	-	H	L	I	S	-	-	-	-	-	-	L	-	100	HQ	1/2	-	5	-	-	-	Nodular Pyritic Shale.							
160	2	GY	FR	2B	-	H	L	I	S	-	-	-	-	-	-	L	-	100	HQ	1/2	-	-	-	-	-	Tuff #1 162.2							
168	2	GY	FR	2C	-	H	L	I	S	-	-	-	-	-	-	L	-	100	HQ	1/2	-	-	-	-	-	Tuff #2 168.7							
176	8	GY	FR	2D	-	H	L	I	S	-	-	-	-	-	-	L	-	100	HQ	1/2	-	-	-	-	-	Chart 174.7m/164.6m							
178	3	W	FR	I2A	-	SL	B	I	S	-	-	-	-	-	-	B	-	100	HQ	1/2	-	-	-	-	-	Nodular Fw Marker							
179	2	WGY	FR	I2B	-	SA	D	I	S	-	-	-	-	-	-	B	-	100	HQ	1/2	-	-	-	-	-	Graded Sequence							
181	0	GY	FR	I2C	-	H	L	I	S	-	-	-	-	-	-	L	-	100	HQ	1/2	-	-	-	-	-	Py Shale of Tuff sequence							
182	0	W	FR	I2D	-	SL	M	I	S	-	-	-	-	-	-	B	-	100	HQ	1/2	-	-	-	-	-	Graded Sequence							
183	5	GY	FR	HYC	-	H	L	I	S	-	-	-	-	-	-	L	-	100	HQ	1/2	183	3	70	-	-	-	Pyritic Shale of Tuff Seq/Fault						
190	1	W	FR	HYC	-	SL	M	I	S	-	-	-	-	-	-	M	-	100	HQ	1/2	-	-	-	-	-	Fw HYC Palominitic Breccia Tectonic							
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Summary Log 97/6.

0 → 27.5 m	HYC	Massive Dol Sst Breccia.
27.5 → 80.0	WFS	Green beds & Clay Tufts. (Upper Unit)
80.0 → 118.9	WFS	Red & Green Beds. - (Lower Unit)
118.9 → 128.0	Teena.	Massive Dol Sst.
128.0 → 139.5	Wozy	Heated Fault Zone.
139.5 → 154.8	I2/3	2/3 Beds.
154.8 → 156.2	2A	2A
156.2 → 176.8	2B, C, D	#2 9/B
183.3	Fault	South up \approx 10m?
176.8 → 190.1	HYC	Tectonic Dolomitic Breccia.

Summary

97/6	150.0	152.1	I23C	2.10	23904	26	1.02	9.88	16.8	3.29	ISA XRF
97/6	152.1	155.4	I23D	3.30	23905	22	1.03	7.26	11.7	3.06	ISA XRF
97/6	155.4	156.2	2A	0.80	23906	54	2.96	19.0	7.54	3.20	ISA XRF
97/6	156.2	162.2	2B	6.00	23907	66	5.93	18.6	8.28	3.37	ISA XRF
97/6	162.2	168.7	2C	6.50	23908	76	6.82	21.3	5.65	3.36	ISA XRF
97/6	168.7	176.8	2D	8.10	23909	78	7.24	19.9	5.35	3.35	ISA XRF
97/6	176.8	178.3	I12A	1.50	23910	10	1.03	4.13	5.64	2.79	ISA XRF
97/6	178.3	179.2	I12B	0.90	23911	6	0.49	0.57	4.02	2.65	ISA XRF
97/6	179.2	181.0	I12C	1.80	23912	8	0.31	0.97	11.2	2.91	ISA XRF
				0.00						2.47	

3.0m 2
(BKA 8)

37me

Pb 6.59
Zn 19.9
Ag 73
Fe 6.34

MCARTHUR RIVER CORES #23904 - 23912#

CREATED AT :- 7:58 AM TUE., 30 DEC., 1997
 PRINTED AT :- 8:55 AM TUE., 30 DEC., 1997
 CHEM LAB\XRF\REPORT.XRF MISC
 ALL RESULTS ARE REPORTED IN PERCENT

ATTN - STEVE REVELY

M.R.M. Mine Sample

MR 023904 <SR1>

PB.....	1.02
ZN.....	9.88
CU.....	0.119
FE.....	16.8
CAO....	7.50
S.....	19.4
SIO2...	16.9
AL2O3..	4.70
MGO....	5.57
AS.....	0.21
CO.....	0.005
SB.....	0.028

Ag = 26

M.R.M. Mine Sample

MR 023905 <SR1>

PB.....	1.03
ZN.....	7.26
CU.....	0.117
FE.....	11.7
CAO....	7.51
S.....	13.6
SIO2...	25.2
AL2O3..	6.37
MGO....	5.66
AS.....	0.171
CO.....	0.003
SB.....	0.039

Ag = 22

M.R.M. Mine Sample

MR 023906 <SR1>

PB.....	2.96
ZN.....	19.0
CU.....	0.27
FE.....	7.54
CAO....	5.44
S.....	8.58
SIO2...	22.0
AL2O3..	6.33
MGO....	4.38
AS.....	0.21
CO.....	0.003
SB.....	0.044

Ag = 54

M.R.M. Mine Sample

MR 023907 <SR1>

PB.....	5.93
ZN.....	18.6
CU.....	0.25
FE.....	8.28
CAO....	1.59
S.....	11.0
SIO2...	27.0
AL2O3..	7.52
MGO....	2.04

Ag = 66

AS.....	2.0*
AS.....	0.173
CO.....	0.003
SB.....	0.052

M.R.M. Mine Sample

MR 023908 <SR1>

PB.....	6.82
ZN.....	21.3
CU.....	0.21
FE.....	5.65
CAO.....	1.90
S.....	5.60
SiO2...	27.6
AL2O3..	6.61
MGO.....	2.05
AS.....	0.183
CO.....	0.003
SB.....	0.052

Ag = 76

M.R.M. Mine Sample

MR 023909 <SR1>

PB. . .	7.24
ZN.....	19.9
CU.....	0.21
FE.....	5.35
CAO.....	1.65
S.....	9.15
SiO2...	30.0
AL2O3..	6.91
MGO.....	1.80
AS.....	0.175
CO.....	0.003
SB.....	0.055

Ag = 78

M.R.M. Mine Sample

MR 023910 <SR1>

PB.....	1.03
ZN.....	4.13
CU.....	0.008
FE. . .	5.64
CAO.....	20.6
S.....	3.84
SiO2...	12.2
AL2O3..	2.26
MGO.....	12.0
AS.....	0.021
SB.....	0.016

Ag = 10

M.R.M. Mine Sample

MR 023911 <SR1>

PB.....	0.49
ZN.....	0.57
CU.....	0.048
FE.....	4.02
CAO.....	16.5
S.....	1.92
SiO2...	29.0
AL2O3..	4.28
MGO.....	10.4
AS.....	0.036
SB.....	0.027

Ag = 6

M.R.M. Mine Sample

MR 023912 <SR1>

PB.....	0.31
ZN.....	0.97
CU.....	0.014
FE.....	11.2
CAO.....	4.21
S.....	10.6
SIO2...	39.5
AL2O3..	10.7
MGO.....	4.16
AS.....	0.059
SB.....	0.066

Ag = 8