Mc ARTHUR RIVER MINING

DIAMOND DRILL HOLE HEADER SUMMARY SHEET

HOLE I.D. : **00_10**

GRID AZIMUTH : **90**

COLLAR INCLINATION : **-21**

SURVEYED COLLAR CO-ORDINATES

EASTING : **7825.95**

NORTHING : **1887.82**

RL : **9657.02**

HOLE/CORE SIZE(S) : **LTK 48**

LOGGED BY : **MF**

D/HOLE SURVEY METHOD **:EASTMAN SS**

LOCATION (eg.drive name) : **2H14 Pad**

DESIGN DEPTH (m) : **124.5**

TOTAL DEPTH (m) : **131.4**

DATE STARTED **7/02/2000**

DATE FINISHED : **8/02/2000**

DRILLED BY : **Boart Longyear**

CORE INTERVALS ASSAYED:

119.86-123.13	**I23**
123.13-129.66	**2**
129.66-130.44	**I12**

LOCAL MAG. DEV. : **+ 5**
(add to downhole survey azim. reading)

RAW DOWNHOLE SURVEY DATA

Depth (m)	Azimuth(Mag)	Dip	Depth (m)	Azimuth(Mag)	Dip
0	89	-21.5			
30	89	-21.5			
60	89	-21.25			
90	90	-21			
131.4	91	-21.25			

Surveyed Collar & Geology Entered Into Vulcan Database : April 2000

Assays Entered Into Vulcan Database : April 2000

Comments:

Note: **From** & **Interval** are calculated fields. Do not overwrite!

Mc ARTHUR RIVER MINING

DIAMOND DRILL CORE SAMPLING SHEET

DATE:	
SAMPLER:	JWR
Sample Type:	1/2 LTK 48

							ASSAYS					
HOLE No.	**FROM (m)**	**TO (m)**	**INTERVAL**	**SAMPLE No.**	**LITHCODE**	**BCA**	**Zn(%)**	**Pb(%)**	**Ag(g/t)**	**Fe(%)**	**Cu(ppm)**	**COMMENTS**
00/10	**119.86**	121.65	**1.79**	26080	I23C	**50**	8.85	2.42	25	15.13	1500	
00/10	**121.65**	123.13	**1.48**	26081	I23D	**67**	8.98	3.08	29	11.95	3100	
00/10	**123.13**	123.74	**0.61**	26082	2A	**60**	17.90	6.44	54	7.27	2600	
00/10	**123.74**	125.35	**1.61**	26083	2B	**58**	15.41	5.86	60	8.37	2600	
00/10	**125.35**	127.43	**2.08**	26084	2C	**65**	18.88	6.76	74	6.22	1800	
00/10	**127.43**	129.66	**2.23**	26085	2D	**65**	17.46	6.70	75	5.78	800	
00/10	**129.66**	130.22	**0.56**	26086	I12A	**75**	2.09	1.14	13	3.55	400	
00/10	**130.22**	130.35	**0.13**	26087	I12B		0.22	0.44	5	3.37	1200	
00/10	**130.35**	130.41	**0.06**	26088	I12C		0.19	0.92	5	3.95	600	
00/10	**130.41**	130.44	**0.03**	26089	I12D		0.63	0.50	5	3.68	600	
Wt Av #2 OB intersection			**6.53**			**62**	**17.45**	**6.39**	**65**	**7.13**	**2169**	
	True Thickness		**5.77**									

Mc ARTHUR RIVER MINING

DIAMOND DRILL HOLE PROPOSAL FORM

HOLE I.D. : 00/10, 11, 12

PROPOSED START DATE **Feb-00**

DESIGN DEPTH **:124.5m**

ESTIMATE COLLAR CO-ORDINATES

EASTING **:7822.8**

NORTHING **:1893.8**

RL **:9658.3**

GEOLOGIST **:SGP**

LOCATION SKETCH

LOCATION (eg.drive name : **2H14 PAD**

DESIGN AZIMUTH (GRID) : **90**

DESIGN AZIMUTH (MAG) : **85**

DESIGN INCLINATION : -21, -10, 0 Deg

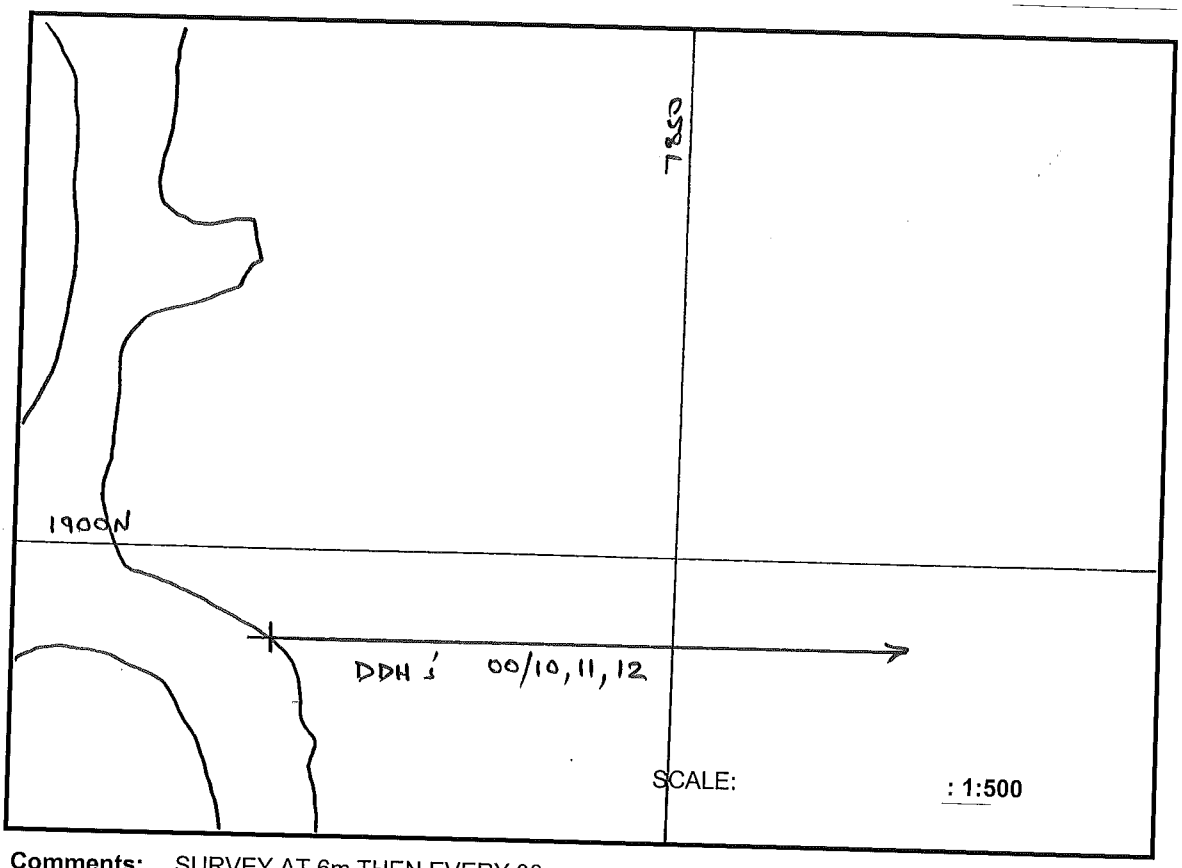
SURVEYED COLLAR CO-ORDINATES

EASTING :

NORTHING :

RL :

SURVEYOR :



Comments: SURVEY AT 6m THEN EVERY 30m

EOH UNDER GEOLOGICAL CONTROL

##########	McARTHUR RIVER MINING LOWER FOLD ZONE DRILLING	GEOLOGICAL LOG SHEET	GEO	Matt Furness	HOLE		00/10	VERSION
			DATE	19/02/00	PAGE		1 of 2	23/01/00

							LITHOLOGY			ALTERATION				SULPHIDES		FAULTING		GEOTECHNICAL			STRUCTURE				COMMENTS
FROM	TO	INT	COL	WTH	CODE	G	LITH	TEX	DOL	VEIN	NO	CR	CO	PY	MIN	TYPE	NAME	REC	CORE	BCA	A1	OTH	D	A2	
7			5	3	4	1	5	3	3	4	3	3	3	2	3	3	3	5	4	3	3	3	3	3	30
0.00	36.10	36.10	CRGY	FR	I23B		TH	M										>95	LTK 48						
36.10	38.30	2.20	YLBN	FR	I23B		H	L						M	W			>95	LTK 48	12					speckled hard tuff
38.30	38.50	0.20	YLBN	FR	I23B		H	L		10-20%				M	W	flt		>95	LTK 48						
38.50	38.70	0.20	YLBN	FR	I23B		H	L						M	W			>95	LTK 48	10					Small fault ??
38.70	43.60	4.90	CRGY	FR	I23B		TH	M										>95	LTK 48						
43.60	61.50	17.90	YLBN	FR	I23A		H	L	DO		S	S	W	M	W			>95	LTK 48						folded top of 23 beds
61.50	68.70	7.20	DGY	FR	3LD		H	L						W	I			>95	LTK 48	15					
68.70	69.00	0.30	LGY	FR	3LD		SL	B										>95	LTK 48						
69.00	70.00	1.00	LGY	FR	3LD		SL	B										>95	LTK 48	0					folds over
70.00	70.34	0.34	LGY	FR	3LD		SL	B										>95	LTK 48	8					
70.34	71.30	0.96	DGY	FR	3LD		H	L						M	M			>95	LTK 48	5					
71.30	73.50	2.20	GY	FR	3LD		SL	B										>95	LTK 48						
73.50	78.50	5.00	DGY	FR	3LD		H	L						W	M			>95	LTK 48	<5					
78.50	78.90	0.40	GY	FR	3LD		SL	B										>95	LTK 48						
78.90	84.50	5.60	DGY	FR	3LD		H	L						W	M			>95	LTK 48	7					
84.50	90.40	5.90	YLBN	FR	I23A		H	L	DO		S	S	W	M	W			>95	LTK 48	16					folded 23 beds
90.40	101.50	11.10	YLBN	FR	I23A		H	L	DO		I	I	M	M	W			>95	LTK 48	15					
101.50	104.40	2.90	GY	FR	I23B		TH	B										>95	LTK 48	17					hard tuff with clay bands
104.40	105.05	0.65	YLBN	FR	I23B		H	L				M						>95	LTK 48	25					
105.05	115.77	10.72	GY	FR	I23B		TH	B										>95	LTK 48	22					
115.77	119.86	4.09	YLBN	FR	I23B		H	L		1-5%		M	W	M	W			>95	LTK 48	40					
119.86	121.65	1.79	YLBN	FR	I23C		H	L			M			M	W			>95	LTK 48	50					
121.65	122.90	1.25	YLBN	FR	I23D		H	L						M	M			>95	LTK 48	66					
122.90	123.13	0.23	GY	FR	I23D		SL	B										>95	LTK 48	69					
123.13	123.74	0.61	DGY	FR	2A		H	L						W	I			>95	LTK 48	60					
123.74	125.20	1.46	DGY	FR	2B		H	L							I			>95	LTK 48	58					
125.20	125.35	0.15	DGY	FR	2B		TH	B										>95	LTK 48						
125.35	127.30	1.95	DGY	FR	2C		H	L							I			>95	LTK 48	65					
127.30	127.43	0.13	DGY	FR	2C		TP	L										>95	LTK 48						
127.43	129.66	2.23	DGY	FR	2D		H	L							I			>95	LTK 48	65					
129.66	130.22	0.56	YLBN	FR	I12A		H	L	DO			M		W	W			>95	LTK 48	75					
130.22	130.35	0.13	CRGY	FR	I12B		SL	B										>95	LTK 48						
130.35	130.41	0.06	YLBN	FR	I12C		H	L						W	T			>95	LTK 48						
130.41	130.44	0.03	CRGY	FR	I12D		SL	B										>95	LTK 48						
130.44	130.76	0.32	GY	FR	1		H	L						T	T			>95	LTK 48	70					
130.76	131.40	0.64	GY	FR	0		SH	L										>95	LTK 48						
				FR																					

Note: **From** & **Interval** are calculated fields. Do not overwrite!

Mc ARTHUR RIVER MINING

DIAMOND DRILL CORE SAMPLING SHEET

DATE:	
SAMPLER:	JWR
Sample Type:	1/2 LTK 48

						ASSAYS					
HOLE No.	**FROM (m)**	**TO (m)**	**INTERVAL**	**SAMPLE No.**	**LITHCODE**	**Zn(%)**	**Pb(%)**	**Ag(g/t)**	**Fe(%)**	**Cu(ppm)**	**COMMENTS**
00/10	**119.86**	121.65	**1.79**		**I23C**						
00/10	**121.65**	123.13	**1.48**		**I23D**						
00/10	**123.13**	123.74	**0.61**		**2A**						
00/10	**123.74**	125.35	**1.61**		**2B**						
00/10	**125.35**	127.43	**2.08**		**2C**						
00/10	**127.43**	129.66	**2.23**		**2D**						
00/10	**129.66**	130.22	**0.56**		**I12A**						
00/10	**130.22**	130.35	**0.13**		**I23B**						
00/10	**130.35**	130.41	**0.06**		**I23C**						
00/10	**130.41**	130.44	**0.03**		**I12D**						
					Av DCA						
					= 62						
				Tmu Wks	= 5.8						

MRM GEOTECHNICAL CORE LOG

Hole No: 80/10
Location:
Dip / Azimuth:
Core Size:

Logged By:
Date:
Sheet ____ **of** ____

joint roughness number		joint alteration number	
discontinuous joints	A	tightly healed, hard	A
rough,irregular,undulating	B	unaltered joint walls, staining	B
slickensided undulating	C	slightly altered, non-softening	C
rough or irregular, planar	D	silty, sandy-clay	D
smooth,planar	E	softening, low friction, clay	E
slickensided,planar	F	fault fill, gouge, breccia, calcite	F

Depth *From (m)*	Depth *To (m)*	Depth *Interval (m)*	Core *Loss (m)*	Strat *Code*	Lithology *Code*	Weather / Alteration	RQD *Total (m)*	RQD *%*	Bedding Breaks	Joint *Breaks (No.)*	Joint *Roughness*	Joint *Alteration*	CBA	Comments
84.50	90.40	**5.90**		**I23A**			5.84	99%	1	0				
90.40	101.50	**11.10**		**I23A**			8.66	78%	47	0				
101.50	104.40	**2.90**		**I23B**			0.52	18%	1	1	B	F		tuff
104.40	105.05	**0.65**		**I23B**			0.56	86%	6	0				
105.05	115.77	**10.72**		**I23B**			7.72	72%	22	15	B	F		
115.77	119.86	**4.09**		**I23B**			2.97	73%	15	6	C	F		
119.86	121.65	**1.79**		**I23C**			1.32	74%	7	1	B	F		
121.65	123.13	**1.48**		**I23D**			1.17	79%	5	1	C			

RQD Total (m) is the sum of all lengths greater than 10cm
RQD % is the Total (m) / intersection length

R:\geology\nick\techlog.xls