Mc ARTHUR RIVER MINING

DIAMOND DRILL HOLE HEADER SUMMARY SHEET

HOLE I.D. : **00_09**

GRID AZIMUTH : **88**

COLLAR INCLINATION : **-1**

SURVEYED COLLAR CO-ORDINATES

EASTING : **7836.55**

NORTHING : **1834.69**

RL : **9651.3**

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

LOGGED BY : **MF**

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

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

DESIGN DEPTH (m) : **190**

TOTAL DEPTH (m) : **153.6**

DATE STARTED **4/02/2000**

DATE FINISHED : **6/02/2000**

DRILLED BY : **Boart Longyear**

CORE INTERVALS ASSAYED:

132.4-143.33	**I23**
143.33-150.08	**2**
150.08-151.41	**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	88	-1.5			
30	87.5	-1.5			
60	87.5	-1			
90	89	-1			
120	89	-1			
153.9	89	-1			

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

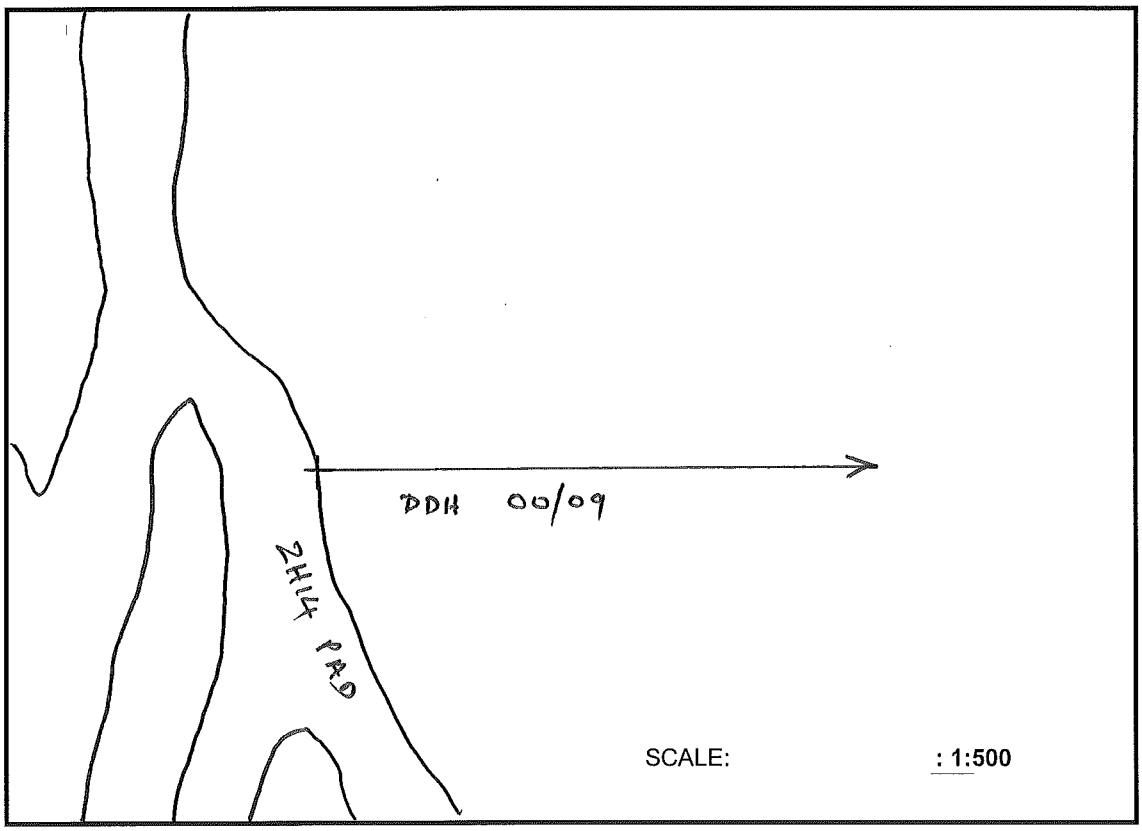
DATE:	09-02-00
SAMPLER:	JWR
Sample Type:	1/2 LTK 48

							ASSAYS					
HOLE No.	**FROM (m)**	**TO (m)**	**INTERVAL**	**SAMPLE No.**	**LITHCODE**	**BCA**	**Zn(%)**	**Pb(%)**	**Ag(g/t)**	**Fe(%)**	**Cu(ppm)**	**COMMENTS**
00/09	132.40	**142.36**	9.96	26070	I23C	**30**	7.31	1.83	19	13.29	900	
00/09	142.36	**143.33**	0.97	26071	I23D	**63**	9.60	3.17	28	13.08	1700	
00/09	143.33	**143.75**	0.42	26072	2A	**62**	14.39	4.80	46	9.16	2900	
00/09	143.75	**147.37**	3.62	26073	2B	**60**	18.07	6.51	62	7.61	2900	
00/09	147.37	**148.35**	0.98	26074	2C	**56**	16.07	5.74	57	5.97	2500	
00/09	148.35	**150.08**	1.73	26075	2D	**62**	17.89	7.31	64	5.30	2400	
00/09	150.08	**150.41**	0.33	26076	I12A	**60**	6.38	2.62	23	5.98	600	
00/09	150.41	**150.47**	0.06	26077	I12B		0.86	0.42	5	3.60	100	
00/09	150.47	**150.76**	0.29	26078	I12C	**56**	0.98	0.31	5	4.75	200	
00/09	**150.76**	**151.41**	**0.65**	26079	**I12D**		0.07	0.05	5	3.73	10	
Wt Av #2 OB intersection			**6.75**			**60**	**17.51**	**6.50**	**61**	**6.88**	**2714**	
	True Thickness		**5.85**									

Mc ARTHUR RIVER MINING

DIAMOND DRILL HOLE PROPOSAL FORM

HOLE I.D.	: **00/09**	LOCATION (eg.drive name	: **2H14 Pad**
PROPOSED START DATE	**Feb-00**	DESIGNAZIMUTH (GRID)	: **88**
DESIGN DEPTH	: **190m**	DESIGN AZIMUTH (MAG)	: **83**
ESTIMATE COLLAR CO-ORDINATES		DESIGN INCLINATION	: **-1 DEG**
EASTING	: **7836.0**	SURVEYED COLLAR CO-ORDINATES	
NORTHING	: **1835.7**	EASTING	:
RL	: **9651.3**	NORTHING	:
GEOLOGIST	: **SGP**	RL	:
LOCATION SKETCH		SURVEYOR	:



SCALE: : 1:500

Comments: SURVEY AT 6m THEN EVERY 30m

EOH UNDER GEOLOGICAL CONTROL

McARTHUR RIVER MINING LOWER FOLD ZONE DRILLING — GEOLOGICAL LOG SHEET

GEO	Matt Furn	HOLE	00/09	VERSION
DATE	20/02/00	PAGE	1 of 2	23/01/00

FROM	TO	INT	COL	WTH	CODE	G	LITHOLOGY LITH	LITHOLOGY TEX	DOL	ALTERATION VEIN	ALTERATION NO	CR	CO	SULPHIDES PY	SULPHIDES MIN	FAULTING TYPE	FAULTING NAME	GEOTECHNICAL REC	GEOTECHNICAL CORE	GEOTECHNICAL BCA	STRUCTURE A1	STRUCTURE OTH	STRUCTURE D	STRUCTURE A2	COMMENTS
7			5	3	4	1	5	3	3	4	3	3	3	2	3	3	3	5	4	3	3	3	3	3	
0.00	6.42	6.42	DGY	FR	2C		H	L		<1%					I			>95	LTK 48	17					30
6.42	12.00	5.58	DGY	FR	2B		TH	M										>95	LTK 48						
12.00	14.82	2.82	DGY	FR	2B		H	L							I			>95	LTK 48	20					tuff 2
14.82	15.37	0.55	DGY	FR	2A		H	L			W			W	S			>95	LTK 48	30					
15.37	15.86	0.49	GY	FR	I23D		SL	B										>95	LTK 48						2 hw marker
15.86	17.17	1.31	YLBN	FR	I23D		H	L			M			M	M			>95	LTK 48	31					
17.17	19.50	2.33	YLBN	FR	I23C		H	L			S	I		S	W			>95	LTK 48	34					
19.50	22.33	2.83	YLBN	FR	I23B		H	L			M	M		M	W			>95	LTK 48	36					
22.33	26.53	4.20	GY	FR	I23B		TH	B										>95	LTK 48	35					
26.53	28.90	2.37	YLBN	FR	I23A		H	L			W	S		M	W			>95	LTK 48	40					
28.90	31.44	2.54	DGY	FR	3LD		H	L						M	I			>95	LTK 48	30					
31.44	31.85	0.41	CRGY	FR	3LC		SX30	B										>95	LTK 48						
31.85	32.30	0.45	DGY	FR	3LC		H	L						M	M			>95	LTK 48	27					
32.30	34.48	2.18	CRGY	FR	3LC		SX40	B										>95	LTK 48						
34.48	39.75	5.27	DGY	FR	3LC		H	L						W	S			>95	LTK 48	28					tuff @34.9
39.75	42.80	3.05	GY	FR	3LB		TH	B										>95	LTK 48	30					hard tuff with clay bands
42.80	45.85	3.05	DGY	FR	3LB		H	L						W	I			>95	LTK 48	25					
45.85	46.47	0.62	GY	FR	3LB		SL	M										>95	LTK 48						
46.47	46.67	0.20	DGY	FR	3LB		H	L						W	I			>95	LTK 48	30					
46.67	47.26	0.59	GY	FR	3LB		SL	M										>95	LTK 48						
47.26	47.60	0.34	DGY	FR	3LB		H	L						W	I			>95	LTK 48	35					
47.60	48.20	0.60	DGY	FR	3LA		H	L						W	I			>95	LTK 48	36					
48.20	49.55	1.35	CRGY	FR	3LA		SX10	B										>95	LTK 48						
49.55	51.13	1.58	DGY	FR	3LA		H	L						W	I			>95	LTK 48						
51.13	51.75	0.62	DGY	FR	3LA		TH	B										>95	LTK 48	32					
51.75	51.93	0.18	DGY	FR	3LA		H	L						W	I			>95	LTK 48	32					
51.93	56.05	4.12	DGY	FR	3MB		TH	M										>95	LTK 48						
56.05	58.98	2.93	YLBN	FR	3MA		H	L						I	M			>95	LTK 48	26					
58.98	59.22	0.24	CRGY	FR	3MA		SL	B										>95	LTK 48						
59.22	61.60	2.38	YLBN	FR	3MA		H	L						I	S			>95	LTK 48	27					
61.60	65.02	3.42	DGY	FR	3UB		H	L						W	S			>95	LTK 48	20					
65.02	70.10	5.08	DGY	FR	~~3MA~~	3UA	H	L						W	S			>95	LTK 48	25					
70.10	77.50	7.40	CRGY	FR	I34		SX10	B		<1%				T	W			>95	LTK 48	23					
77.50	82.90	5.40	GYBN	FR	4LC		H	L							I			>95	LTK 48	10					
82.90	83.10	0.20	CRGY	FR	4LB		TP	L										>95	LTK 48						
83.10	85.40	2.30	DGY	FR	4LB		H	L							I			>95	LTK 48	20					cutting up still
85.40	85.67	0.27	BL	FR	4LB		SB	B										>95	LTK 48	0					folds over
85.67	86.60	0.93	DGY	FR	4LB		H	L							I			>95	LTK 48	72					cutting down thru the rocks
86.60	86.73	0.13	CRGY	FR	4LB		TP	L										>95	LTK 48						
86.73	87.96	1.23	DGY	FR	4LC		H	L							I			>95	LTK 48	67					
87.96	90.80	2.84	CRGY	FR	I34		SX10	B										>95	LTK 48	65					
90.80	92.81	2.01	DGY	FR	3UA		H	L						W	S			>95	LTK 48	70					
92.81	94.10	1.29	DGY	FR	3UB		H	L						W	S			>95	LTK 48	80					
94.10	97.46	3.36	YLBN	FR	3MA		H	L		1-5%				I	S			>95	LTK 48	80					
97.46	99.33	1.87	BL	FR	3MB		TH	M										>95	LTK 48						
99.33	99.50	0.17	DGY	FR	3LA		H	L						M	S			>95	LTK 48	70					
99.50	99.74	0.24	DGY	FR	3LA		TH	B										>95	LTK 48						
99.74	100.71	0.97	DGY	FR	3LA		H	L						M	S			>95	LTK 48	75					
100.71	101.40	0.69	CRGY	FR	3LA		SX10	B										>95	LTK 48						
101.40	101.52	0.12	DGY	FR	3LA		H	L						M	S			>95	LTK 48						
101.52	102.05	0.53	DGY	FR	3LB		H	L						M	S			>95	LTK 48	75					
102.05	102.66	0.61	GY	FR	3LB		SL	B										>95	LTK 48						
102.66	104.67	2.01	DGY	FR	3LB		H	L						M	S			>95	LTK 48	70					

104.67	106.04	1.37	GY	FR	3LB		TH	B										>95	LTK 48	70					
106.04	109.40	3.36	DGY	FR	3LC		H	L						M	S			>95	LTK 48	70					
109.40	111.18	1.78	CRGY	FR	3LC		SX40	B										>95	LTK 48						
111.18	112.63	1.45	DGY	FR	3LD		H	L						M	S			>95	LTK 48	68					
112.63	113.31	0.68	YLBN	FR	I23A		H	L						M	W			>95	LTK 48	67					
113.31	114.00	0.69	GY	FR	I23A		TH	B										>95	LTK 48						
114.00	115.90	1.90	YLBN	FR	I23A		H	L						M	W			>95	LTK 48	70					
115.90	118.50	2.60	GY	FR	I23B		TH	B										>95	LTK 48						
118.50	119.20	0.70	YLBN	FR	I23B		H	L						M	W			>95	LTK 48	30					folded
119.20	121.10	1.90	GY	FR	I23B		TH	B										>95	LTK 48						
121.10	122.40	1.30	YLBN	FR	I23B		H	L						M	W			>95	LTK 48	27					
122.40	125.30	2.90	GY	FR	I23B		TH	B										>95	LTK 48						
125.30	126.90	1.60	YLBN	FR	I23B		H	L						M	W			>95	LTK 48	45					
126.90	127.45	0.55	DGY	FR	I23B		TH	B										>95	LTK 48						
127.45	132.40	4.95	YLBN	FR	I23B		H	L						M	W			>95	LTK 48	30					folded , tuff @base
132.40	142.36	9.96	YLBN	FR	I23C		H	L	CR		M	I		M	W			>95	LTK 48	30					folded 23c
142.36	143.20	0.84	YLBN	FR	I23D		H	L						M	M			>95	LTK 48	63					
143.20	143.33	0.13	GY	FR	I23D		SL	B										>95	LTK 48						hw marker
143.33	143.75	0.42	DGY	FR	2A		H	L			W			W	I			>95	LTK 48	62					
143.75	147.32	3.57	DGY	FR	2B		H	L						W	I			>95	LTK 48	60					
147.32	147.37	0.05	BL	FR	2B		TH	B										>95	LTK 48						
147.37	148.35	0.98	DGY	FR	2C		H	L						W	I			>95	LTK 48	56					
148.35	150.08	1.73	DGY	FR	2D		H	L						W	I			>95	LTK 48	62					
150.08	150.41	0.33	YLBN	FR	I12A		SH	L			M			M	W			>95	LTK 48	60					
150.41	150.47	0.06	BL	FR	I12B		SL	B										>95	LTK 48						
150.47	150.76	0.29	YLBN	FR	I12C		H	L						M	T			>95	LTK 48	56					
150.76	151.41	0.65	CRGY	FR	I12D		SX40	B										>95	LTK 48						
151.41	152.22	0.81	DGY	FR	1		H	L						W	T			>95	LTK 48	58					
152.22	153.60	1.38	CRGY	FR	0		H	L										>95	LTK 48						
				FR														>95	LTK 48						
				FR														>95	LTK 48						

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

Mc ARTHUR RIVER MINING

DIAMOND DRILL CORE SAMPLING SHEET

DATE:	09/02/00
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**
00/09	**132.40**	**142.36**	**9.96**	26070	**I23C**	7.95	1.85	19	14.14	900	
00/09	**142.36**	**143.33**	**0.97**	26071	**I23D**	10.43	3.2	28	13.91	1700	
00/09	**143.33**	**143.75**	**0.42**	26072	**2A**	15.64	4.85	46	9.74	2900	
00/09	**143.75**	**147.37**	**3.62**	26073	**2B**	19.64	6.58	63	8.1	2900	
00/09	**147.37**	**148.35**	**0.98**	26074	**2C**	17.47	5.8	58	6.35	2500	
00/09	**148.35**	**150.08**	**1.73**	26075	**2D**	19.45	7.38	65	5.64	2400	
00/09	**150.08**	**150.41**	**0.33**	26076	**I12A**	6.93	2.65	23	6.36	600	
00/09	**150.41**	**150.47**	**0.06**	26077	**I12B**	0.93	0.42	L	3.83	100	
00/09	**150.47**	**150.76**	**0.29**	26078	**I12C**	1.07	0.31	L	5.05	200	
00/09	**150.76**	**151.41**	**0.65**	26079	**I12D**						
					Av BCA						
					= 60						
				True Width	= 5.9						

MRM GEOTECHNICAL CORE LOG

Hole No: 96/09
Location:
Dip / Azimuth:
Core Size:

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

joint roughness number	
discontinuous joints	A
rough,irregular,undulating	B
slickensided undulating	C
rough or irregular, planar	D
smooth,planar	E
slickensided,planar	F

joint alteration number	
tightly healed, hard	A
unaltered joint walls, staining	B
slightly altered, non-softening	C
silty, sandy-clay	D
softening, low friction, clay	E
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
112.63	113.31	**0.68**	YLBN	**I23A**	**H**		0.54	79%	6	0				
113.31	114.00	**0.69**	GY	**I23A**	**TH**		0.5	72%	4	0				
114.00	115.90	**1.90**	YLBN	**I23A**	**H**		1.44	76%	19	0				
115.90	118.50	**2.60**	GY	**I23B**	**TH**		1.7	65%	16	3	**B**	F	32	
118.50	119.20	**0.70**	YLBN	**I23B**	**H**		0.35	50%	5	0				
119.20	121.10	**1.90**	GY	**I23B**	**TH**		1.1	58%	8	0				
121.10	122.40	**1.30**	YLBN	**I23B**	**H**		1.06	82%	9					
122.40	125.30	**2.90**	GY	**I23B**	**TH**		1.91	66%	13	4	**B**	F	35	
125.30	126.90	**1.60**	YLBN	**I23B**	**H**		1.22	76%	12	3	**B**	F	70	
126.90	127.45	**0.55**	DGY	**I23B**	**TH**		0.26	47%	0					
127.45	132.40	**4.95**	YLBN	**I23B**	**H**		3.23	65%	30					
132.40	142.36	**9.96**	YLBN	**I23C**	**H**		7.73	78%	52					
142.36	143.20	**0.84**	YLBN	**I23D**	**H**		0.8	95%	3					
143.20	143.33	**0.13**	GY	**I23D**	**SL**		0.1	77%	1					

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

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