

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 0.90	«CASING»	Overburden, weathered bedrock, ground core				Log rewritten/revised following binocular microscope examination of representative suite, Nov. 23, 1987
0.90 TO 12.40	Ankeritized Serpentine «ANK SERP»	Colour: Light orange to black Moderate to strong ankerite alteration of serpentine (40-90% alteration). Remnant patches of black, magnetite rich (5-10%), talcose serp. Locally magnetic.		«40-90% ankeritized», alteration less intense toward contact at 12.4m Weak veining (<5%) by white to clear sucrose qtz vns (10 & 45-60 deg to CA) Ankerite alt'n occurs along fol'n and is developed as envelopes around 3-5 cm clay gouge zones (30-45 deg to CA) White quartz veins up to 2cm wide have cockscomb margins and massive centres 3.3 - 3.66 white chalc veining, av 1 cm wide, @ 20 deg to CA, cut by later narrow grey silica vntls (2-4mm). *Serpentinization predates ankerite alteration; silicification post-dates ankerite alteration but appears to be preferentially hosted in ankerite zones At least two ages of silica veining evident, early white quartz veins may be associated with ankerite alteration		
12.40 TO 56.50	Med grained Fsp porp/ Qtz diorite «FSP PORP»	Grey green, medium grained feldspar porphyry 40-50% plag phenos (2-8mm), in fng gmass of: 15-25% acicular mafics (hnbld?), avg 1mm 15% fine plag 10-15% fine qtz Locally strongly oxidized with assoc bleaching. Rusty zones avg 30 cm, with sharp contacts with unalt'd rx. Overall 20-30% of interval is alt'd. Plag phenos locally show good alignment at 40 deg to CA. 12.4-12.8m Pale green, non-magnetic contact zone (altered chill zone? in porphyry); NOT a fault contact		~30% of this section is oxidized and bleached, 2% chalc vntls in bleached zones, @ 45-60 deg to CA. 12.8-17.4m v. minor narrow silica vntls, v. weak propylitic alt'n (cc-hem frac filling). Prop alt'n predates qtz. 17.4 - 20.0 m 20% of interval is strongly alt'd, pale orange colour, in bands 20-40 cm. Alt'd bands have sharp contacts @ 60-90 deg to CA with unalt'd feldps porph. Alt'n consists of alt'd		17.4 - 33.85m v. fine diss py (1-3% «1-3% py»

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		21.4 - 21.8m Pale grey feldsp porph, phenos weakly Fe stained.		plag phenos in orange rusty matrix (from oxid of py? or ankerite alt'n?)		
		27.0 - 35.0m Orange feldsp porph.		27.0 - 35.0 Rusty, Fe stained.		
		35.0 - 35.85m Pale grey colour.		33.85 - 34.25m White «chalc vn», 10% fine (< 1 cm) rusty bx clasts, 70 deg to CA		
				35.0 - 35.85m Weak perv silic'n.	33.85 - 56.5m Heavy pyrite locally (eg 41m has patchy zones of pyrite up to 50%)	
				33.85 - 56.5m Slight increase (mod) in pervasive clay alt'n and silic vns		
				Circ loss at 33.85 - 34.25m coincides with massive pale green to white chalc vn @ 50-60 deg to CA. Vein contains frags of rusty wall rx and clots of talc.		
				44.4 - 45.0m v. weak perv pale pink alt'n of gmass and pale green (sericite ?) alt'n of plag phenos.		
				46.9 - 47.5m. Weak hem alt'n on frags.		
		46.1m Medium align phenocrysts at 45 deg to CA		49.6m Local drusy silica fract coatings with fng py in botryoidal white waxy talc? coating silica.		
				49.5 - 56.0m Orange, strong Fe staining of porph matrix, 5% chalc vnl		
				50.7 - 50.8m «chalc bx vn», 55 deg to CA, poorly developed banding		
		51.5 - 51.8m Silic hem serp clasts (xenoliths?)		51.3m fine bladed calcite on vuggy silica vn.		
		53.2 - 53.5m within silic porph.		55.4 - 55.6m «chalc bx vn», 55 deg to CA.		
				55.1 - 56.0m Moderate to strong silica veining		

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
56.50 TO 69.40	Serp'tinite «SERP»	Grey to black with local orange (ankerite) mottling. Foliation 45-60 deg to CA, poor to moderately well developed. Mottled texture, 50% fng black serp (strongly magnetic), 50% white to pale green talc rich zones, defining fol'n.		Ankerite alt'n much weaker than in upper serp. «weak ank alt» V. weak silica veining, mainly within ankerite zones. Ankerite alt'n x-cuts and parallels fol'n, alt'n zones to 30 cm wide. 56.6m Irregular contact with felsp porph, later silic'n and blue-green chalc vning along contact. 56.5 - 62.5m Mod-weak ank alt'n, decreases away from contact. 58.6 - 58.8m 10% light grey - clear, weakly banded chalc vns (to 2 cm) @ 45-80 deg to CA. «min chalc vnlts» 59.7m 5cm wide strong clay gouge. 62.5 - 69.4m v. weak ank alt'n, grey mottled serp, local ank zones to 20 cm.		
69.40 TO 69.80	«LAMP DYKE»	Biotite lamprophyre, 10% bi (0.5-1mm) in non-mag very fng gmass, dark grey brown. Sharp contacts at 45-50 deg to CA		v. minor carb vnlts		
69.80 TO 71.90	Serpentine «SERP»	same as 56.5-69.4m		71.3m 2 cm wide vuggy qtz vn @ 45 deg to CA		
71.90 TO 88.00	«KNOB HILL ANDES»	Fine grained, grey green non-porph andesite. (Knob Hill??) 60% fine plag 15% mafics (avg 1mm) v fine interstitial qtz 5% irreg, elongate 1-2mm carb cavity fillings (vesicles?) aligned locally at 55 deg to CA				

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		71.9m Sharp contact at ~45 deg to CA marked by 5cm of weak gouge 74.2m 2cm wide serp inclusion reported, core missing.		72.9 - 76.0m Mod to strong pervasive chlorite alt'n, weak qtz-carb fract fill @ 30-50 deg to CA. «chl alt'n» 76.0 - 79.0m Increasing pervasive sericite (weak) 79.0 - 88.0m Weak to mod seric & weak perv silic. Weak chalc silica veining (<2%), to 2 cm, @ 45-70 deg to CA. Strong chl alt'n of mafics. «qtz-seric alt'n» 86.6 - 87.8m Interval is pale grey, fine grained, minor mariposite, strong silica and chalc vning, minor talc. «min mariposite» 84.6m Vuggy calcite in chalc vn	71.9 - 79.0m Trace py 79.0 - 88.0m 2-4% v. fine diss py «2-4% py» 84.6m Fine py cubes line vugs	
88.00 TO 89.00	Serp'tinite «SERP»	Green-black-tan Strong fol'n @ 50-70 deg to CA Sharp upper (30 deg to CA) & lower (60 deg to CA) contacts		Alternating magnetic serp and quartz-magnesite bands 88.4 - 88.7m Banded and vuggy chalc veining	Trace diss py	
89.00 TO 90.20	«KNOB HILL ANDES»	Medium to dark green, v. fine grained. Non-porphyrific, "greenstone" (Knob Hill??). Chlorite pseudomorphs of mafics. Sharp lower contact at 20 deg to CA		Strong perv chlor, local strong silic and bleaching, strong seric on frags. «chl, seric, silic»		
90.20 TO 90.80	Serp'tinite «SERP»	Black/white, mottled, locally ankeritic. Sharp lower contact at >45 deg to CA		Strong silica veining - (stockwork) banded and vuggy, white to grey chalc veins at variable angles «str silica vning»	2% py replacing serp «2% py»	
90.80 TO 98.75	Feldspar Porphyry «FSP PORP»	Light green Fine grained Remnant porp texture generally visible with 20-25% tabular pinkish feldspar phenocrysts (avg 1mm) in fng feldsp rich gmass.		90.8 - 97.6m - mod to strong perv seric (gmass) - clay alt'd rims of plag phenos - 5% fine qtz vnlt's (non-chalc) - minor chalc vnlt's - carb fract fill and grey qtz-seric	1-4% v. fine diss py «1-4% py»	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		<p>97.6 - 98.75m Med grained, pale grey, 25% plag phenos in fng matrix.</p> <p>END OF HOLE</p>		<p>on stockwork fract's - rx bleached pale pink to pale green (Phyllic alt'n superimposed by carb frac fill and hem stain) «qtz-seric alt'n» ‡90.8 - 93.0‡m up to 5% fine, bright apple green mariposite? (may be alt'n of gmass plag). «5% mariposite» 93.1m 5cm wide silica - breccia vein @ 30 deg to CA</p> <p>‡97.5 - 98.3‡m Moderate to strong chalcedonic veins @ 45-70 deg to CA «mod chalc vning» 97.6 - 98.75m Grades into less altered porph, still silic</p>	<p>94m Soft black non-metallic mineral (Manganite ?) forms matrix to 1cm wide breccia zone @ 20 deg to CA (core missing for this piece)</p>	

Sample	From (m)	To (m)	Length (m)	ASSAYS					GEOCHEMICAL										COMMENTS	
				Cu %	Zn %	Pb %	Ag gm/T	Au gm/T	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb	As ppm	Sb ppm	Mo ppm	Hg ppb	F ppm		Cr ppm
51001	2.00	4.00	2.00						8	7	10	0.1	1	13	2	2		960		
51002	3.30	3.66	0.36						6	2	13	0.1	17	17	2	2		750		
51003	6.00	8.00	2.00						4	2	10	0.1	36	9	2	2		760		
51004	10.00	12.00	2.00						2	2	10	0.1	2	11	2	1		170		
51005	14.00	16.00	2.00						74	13	91	0.1	1	4	2	1		580		
51006	16.00	18.00	2.00						104	6	49	0.1	55	54	2	1		660		
51007	17.40	17.70	0.30						81	3	49	0.4	65	74	3	1		1000		
51008	18.00	20.00	2.00						80	7	46	0.1	3	27	2	1		900		
51009	20.00	22.00	2.00						76	4	43	0.1	8	35	2	1		1200		
51010	22.00	24.00	2.00						56	6	49	0.2	1	25	2	1		970		
51011	24.00	26.00	2.00						64	2	44	0.1	2	30	2	1		720		
51012	26.00	28.00	2.00						33	7	47	0.1	1	16	2	1		910		
51013	28.00	30.00	2.00						35	3	50	0.1	18	21	2	1		1100		
51014	30.00	32.00	2.00						51	5	54	0.2	8	55	2	1		1000		
51015	32.00	33.85	1.85						70	4	59	0.3	69	109	2	1		1180		
51016	33.05	34.25	0.40						7	6	12	0.7	28	20	2	2		270		
51017	34.25	36.00	1.75						38	4	46	0.5	90	110	2	1		1500		
51018	36.00	38.00	2.00						34	8	48	0.3	17	32	2	1		870		
51019	38.00	39.40	1.40						35	3	50	0.1	2	2	2	1		670		
51020	39.40	40.00	0.60						97	9	49	0.8	149	128	2	1		790		
51021	40.00	42.00	2.00						41	6	52	0.2	33	84	2	1		1100		
51022	42.00	44.00	2.00						32	2	40	0.2	17	48	2	1		990		
51023	44.00	46.00	2.00						31	5	39	0.2	4	26	2	1		940		
51024	46.00	48.00	2.00						10	6	48	0.1	20	34	2	1		1080		
51025	48.00	50.00	2.00						10	6	43	0.1	6	31	2	1		1300		
51026	50.00	52.00	2.00						148	3	40	0.3	19	56	2	1		1100		
51027	52.00	54.00	2.00						81	6	32	0.3	22	54	2	1		1200		
51028	54.00	56.00	2.00						42	2	32	0.2	4	71	6	1		870		
51029	60.00	62.00	2.00						7	2	11	0.1	1	5	2	2		710		
51030	66.00	68.00	2.00						5	2	8	0.1	2	6	2	2		690		
51031	70.00	72.00	2.00						2	2	14	0.1	3	19	2	1		150		
51032	74.00	76.00	2.00						6	8	59	0.1	2	2	2	1		720		
51033	78.00	80.00	2.00						31	9	67	0.1	27	10	2	1		1300		
51034	80.00	82.00	2.00						24	11	93	0.2	39	21	2	1		1340		
51035	82.00	84.00	2.00						30	112	98	0.3	6	13	2	1		1050		
51036	84.00	86.00	2.00						12	8	55	0.3	2	46	4	1		1300		
51037	86.00	88.00	2.00						18	8	52	0.7	181	138	5	3		1200		
51038	88.00	90.00	2.00						33	42	91	0.8	23	296	13	15		510		

HOLE NUMBER: MDH-87-1

ASSAY SHEET

DATE: 15-May-1990

Sample	From (m)	To (m)	Length (m)	Cu %	Zn %	Pb %	Ag gm/T	Au gm/T	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb	As ppm	Sb ppm	Mo ppm	Hg ppb	F ppm	Cr ppm	Pt ppb			
51039	90.00	92.00	2.00						47	10	44	0.5	210	152	4	2		980					
51040	92.00	94.00	2.00						56	15	49	0.4	16	80	4	2		1240					
51041	94.00	96.00	2.00						12	9	55	0.1	6	12	2	1		820					
51042	96.00	98.00	2.00						17	10	62	0.1	7	13	2	1		740					
51043	98.00	98.75	0.75						13	9	56	0.3	1	17	2	1		640					

HOLE NUMBER: MDH-87-1

GEOCHEM. SHEET

DATE: 15-May-1990

Sample	From (m)	To (m)	Length (m)	Al2O3 %	BaT %	CaO %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %	SiO2 %	TiO2 %	S %	TOTAL %	Ag ppm	As ppm	Ba ppm	Cu ppm	Pb ppm	Sb ppm	Zn ppm	Au ppm
19901	24.00	27.00	3.00																					
19902	31.00	33.80	2.80																					
19903	63.00	66.00	3.00																					
19904	72.00	74.00	2.00																					
19905	90.80	93.00	2.20																					

HOLE NUMBER: MDH-87-2

MINNOVA INC.
DRILL HOLE RECORD

IMPERIAL UNITS:

METRIC UNITS: X

PROJECT NAME: RAINBOW
PROJECT NUMBER: 661
CLAIM NUMBER:
LOCATION:

PLOTTING COORDS GRID:
NORTH: 7725.00N
EAST: 13050.00E
ELEV: 915.00

ALTERNATE COORDS GRID:
NORTH: 77+25N
EAST: 130+50E
ELEV: 915.00

COLLAR DIP: -45° 0' 0"
LENGTH OF THE HOLE: 60.65m
START DEPTH: 0.00m
FINAL DEPTH: 60.65m

COLLAR GRID AZIMUTH: 270° 0' 0"

COLLAR ASTRONOMIC AZIMUTH: 270° 0' 0"

DATE STARTED: 0, 0
DATE COMPLETED: 0, 0
DATE LOGGED: November 11, 1987

COLLAR SURVEY: NO
MULTISHOT SURVEY: NO
RQD LOG: NO

PULSE EM SURVEY: NO
PLUGGED: NO
HOLE SIZE: NQ

CONTRACTOR: MIN-EX DRILLING LTD.
CASING:
CORE STORAGE: Boundary Falls Farm

PURPOSE: Drilled under chalco bx vn, ran 3.2 gm Au... over 60 cm on surface. Tested @ depth of 35-40 m.

DIRECTIONAL DATA:

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments	Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
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HOLE NUMBER: MDH-87-2

DRILL HOLE RECORD

LOGGED BY: R. WONG / L. LEE

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 1.80	«CASING»					Log rewritten/revised November 23, 1987
1.80 TO 60.65	Qtz-Felsp Porphyry «QZ-FS POR»	Dark to medium grey, med grained 1.80 - 10.0m Med grained qtz-feld porph. - 25% plag phenos, tabular, 1-3mm - 5% qtz eyes, square, 2-5mm - gmass consists of 20% acicular mafics (hnbld?) 0.1-1mm in qtz-feld mtrx. 10.0m gradational contact 10.0 - 15.4m Fine grained crowded feldspar porphyry. - 50% plag phenos, 1mm - qtz eyes absent - gmass 10% mafics (.5mm) in qtz-feld mtrx. 15.4 - 17.2m Med grained QFP 17.2 - 20.0m Crowded feldsp porph 20-25.3m Coarser plagioclase porphyry (phenos to 6mm) comprise 20-30%, (no quartz eyes), moderate alignment @ 75 deg to CA 25.3 - 31.3m Crowded feldsp porph 30.0 - 57.0m Oxidized fracture/fault zone, light orange.		Variable weak to str clay alt related to oxidized gouge zones. Weak to str chloritiz'n of mafics. 1.8 - 8.0m Broken core, rusty frags. 1.8 - 18.0m v. minor chalc-silica vnl (45-70 deg to CA) 3.9m 5cm qtz-carb vn, 65 deg to CA 7.0m 1cm white chalc vn, 60 deg to CA 11.8m 1-2mm discont. pale blue chalc vns. 10.5 - 12.0m Dark orange, v. rusty mtrx 12.0 - 16.0m Mod to str clay alt'n. 18.1m 10 cm zone with 20% chalc to drusy silica vning, to 2 cm. Vning @ 45 deg to CA, accomp by white waxy talc. 20-25.3m Weak clay and chl alt'n. 18 - 38m Weak silica veining 28 - 30m Weak pervasive clay alt 30m start of int oxidation, low recov. Numerous gouge zones with spatially related grey-white chalc vns and bx vns (core broken and ground). Gouge zones predom at 50 deg to CA. Orange colour.	3.9m Minor cpy in qtz-carb vn. 12.0 - 16.0m 2-3% v. fine diss py «2-3% py» 20-25.3m Tr. diss py 28 - 30m 1+% v. fine py	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		<p>38.1-39.0m Approx centre of fault-gouge zone, only 30cm of core recovered. Consists of chalc-silica bx, locally drusy, 30% oxidized wall rx clasts.</p> <p>39.0-40.2m Only six small pieces of chalc bx (potential width of silica 38.1 - 40.0 m).</p> <p>50-57m Periphery of fault-gouge zone, better recoveries</p> <p>57-60.65m Unoxid feldspar porph, pale grey. - 35-40% tabular plag phenos (1-4mm, avg 2mm), weak to mod alignment (variable angles) - no qtz eyes - 10% fine mafics</p> <p>END OF HOLE</p>		<p>30 - 47m Strongly oxidized, pervasive carbonate, moderate to strong clay alt and locally strong chalcedonic veining «clay alt, chalc vning»</p> <p>45.9-46.2m Strong silica veining in sheared host 50-57m Minor silica veins 1-4mm @45-50 deg to CA</p> <p>57.0 - 60.65m Mod clay alt'n of plag phenos, minor silica vnlt.</p>	<p>30 - 47m 2-3% v. fine diss py «2-3% py»</p> <p>38.1 - 39.0m 2-4% disseminated hematite crystals</p>	<p>30.0 - 47.0 m «FAULT ZONE»</p>

Sample	From (m)	To (m)	Length (m)	ASSAYS					GEOCHEMICAL										COMMENTS				
				Cu %	Zn %	Pb %	Ag gm/T	Au gm/T	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb	As ppm	Sb ppm	Mo ppm	Hg ppb	F ppm		Cr ppm	Pt ppb		
51044	6.00	8.00	2.00						6	2	55	0.1	1	27	2	1			440				
51045	10.00	12.00	2.00						25	7	53	0.3	1	7	2	1			600				
51046	14.00	16.00	2.00						4	7	40	0.1	1	38	3	1			580				
51047	18.00	20.00	2.00						9	6	52	0.1	5	183	2	1			680				
51065	20.00	22.00	2.00						28	10	63	0.2	6	2	2	1			600				
51048	22.00	24.00	2.00						27	7	64	0.2	1	2	2	1			550				
51049	26.00	28.00	2.00						4	4	52	0.1	1	2	2	1			470				
51050	30.00	32.00	2.00						11	4	49	0.1	6	19	2	1			690				
51051	32.00	34.00	2.00						58	8	46	0.2	1	5	2	1			740				
51052	34.00	36.00	2.00						20	8	44	0.1	8	48	2	2			1100				
51053	36.00	38.00	2.00						44	11	45	0.4	30	77	3	2			990				
51054	38.00	40.00	2.00						13	7	25	1.4	64	63	2	1			620				
51055	40.00	42.00	2.00						6	5	56	0.1	3	27	2	1			520				
51056	42.00	44.00	2.00						7	5	55	0.1	6	72	2	2			800				
51057	44.00	46.00	2.00						48	8	47	0.3	72	42	2	1			820				
51058	46.00	48.00	2.00						6	2	73	0.1	4	28	4	2			730				
51059	48.00	50.00	2.00						6	6	64	0.1	3	8	2	1			620				
51060	50.00	52.00	2.00						6	8	61	0.1	3	25	2	1			760				
51061	52.00	54.00	2.00						14	10	55	0.2	2	22	2	2			1000				
51062	54.00	56.00	2.00						40	12	50	0.1	5	36	2	2			1280				
51063	56.00	58.00	2.00						28	6	49	0.2	1	34	2	1			1240				
51064	58.00	60.65	2.65						31	10	43	0.3	4	6	2	1			1090				

HOLE NUMBER: MDH-87-2

GEOCHEM. SHEET

DATE: 15-May-1990

Sample	From (m)	To (m)	Length (m)	Al2O3 %	BaT %	CaO %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %	SiO2 %	TiO2 %	S %	TOTAL %	Ag ppm	As ppm	Ba ppm	Cu ppm	Pb ppm	Sb ppm	Zn ppm	Au ppm
	0.00	0.00	0.00																					

HOLE NUMBER: MDH-88-3

MINNOVA INC.
DRILL HOLE RECORD

IMPERIAL UNITS:

METRIC UNITS: X

PROJECT NAME: RAINBOW
PROJECT NUMBER: 661
CLAIM NUMBER:
LOCATION: 4 km NW of Midway

PLOTTING COORDS GRID:
NORTH: 8850.00N
EAST: 11220.00E
ELEV: 785.00

ALTERNATE COORDS GRID:
NORTH: 88+50N
EAST: 112+20E
ELEV: 785.00

COLLAR DIP: -55° 0' 0"
LENGTH OF THE HOLE: 91.44m
START DEPTH: 0.00m
FINAL DEPTH: 91.44m

COLLAR GRID AZIMUTH: 290° 0' 0"

COLLAR ASTRONOMIC AZIMUTH: 290° 0' 0"

DATE STARTED: 0, 0
DATE COMPLETED: 0, 0
DATE LOGGED: November 12, 1988

COLLAR SURVEY: NO
MULTISHOT SURVEY: NO
RQD LOG: NO

PULSE EM SURVEY: NO
PLUGGED: NO
HOLE SIZE: NQ

CONTRACTOR: IRON MTN DRILLING CO.
CASING:
CORE STORAGE:

PURPOSE: Drilled to test chalc vns seen on surface at depth of 50 metres.

DIRECTIONAL DATA:

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments	Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
41.44	-	-52° 0'	ACID	OK		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
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FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 3.05	«CASING»					
3.05 TO 10.06	«KNOB HILL ANDES»	Light to dark green, fine grained, andes bx. Light purple chalc vnlt (<10mm) @ 10 deg to CA (Knob Hill) Frag subangular, 1-20mm (primary bx). 9.2-9.5m felds porph dyke		Perv chl alt'n, calc frac fill. 5.18m Late calcite vn, 1cm, 50 deg to CA. 9.50-9.60m Hem stained 9.50m Light brown clay gouge @ 35 deg to CA	1% fine diss py.	
10.06 TO 16.40	Feldspar-Biotite phyrlic intrusive «MARRON DIO R? DYKE»	Dark grey, medium grained, feldspar-biotite porphyritic intrusive, possibly dioritic?. (Tertiary) - 30% tabular plag phenos, avg 2mm - 15% biotite xtals, avg .8mm - fine grained fsp rich mtrx with 15% fine mafics Mod to strongly magnetic. 10.06m Sharp contact with andesite bx. 10.06 - 11.0m pale brown, grad into fresh dark grey intrus @ 11.0. 15.84 - 16.40m pale brown colour, grad contact from dark grey intrusive above (chill margin?). Fsp phyrlic (no mafics). 16.4m Sharp contact @ 45 deg to CA.		10.06 - 11.0m. clay alt'd plag, clay-carb fracture fill @ 80 deg to CA. ‡15.84 - 16.40‡m «Silic», weak clay alt and Fe stained plag. Minor chalc vning @ 40 deg to CA.	Minor py.	
16.40 TO 19.00	«FAULT ZN»	Pale brown-grey, fine grained. Prob. originally andesite (as underlying). Crackle type bx, Fe stain on frags.		V. strongly bleached, silic'd, strongly bx. «bleach, bx, silic» ‡17.03 - 17.1‡m Milky white chalc vn @ 40 deg to CA. «chalc vn»		16.40m Silicified fault @80 deg to CA

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
19.00 TO 36.20	«KNOB HILL ANDES»	<p>Dark green, fine grained volcanic. Locally bx. May be gradational into slightly coarser grained feldspar phyric phase. (Knob Hill)</p> <p>26.0 - 27.0m gradational into coarser feldspar porphyritic phase.</p> <p>‡28.25 - 30.4m‡ «Chert pebble congl» Interbed of chert pebble congom/bx within andes. Pale-med green with 20% chert frags, avg 4mm, and minor andesite frags in fine grained, xtalline feldspar rich mtrx.</p> <p>28.25m Sharp upper contact @ 40 deg</p> <p>30.4m Lower contact missing. Reported to be sharp at 35 deg to CA.</p> <p>30.4 - 33.2m Dark green, v. fine grained andes as above, weakly feldspar phyric.</p> <p>33.2m sharp contact</p> <p>‡33.2 - 34.5‡m Pale grey, bleached, xtal tuff interbed. «Xtal tuff». Remnant mafics visible in fng altered mtrx.</p> <p>34.5m gradational lower contact</p> <p>34.5 - 36.2m fine grained andesite, as above.</p>		<p>Weak-mod perv chl alt'n throughout. Local weak hem. Mod carb frac fill.</p> <p>‡19.0 - 20.5‡m strong bleaching, silic «bleach, silic»</p> <p>‡28.25 - 30.4‡m silic'd «silic»</p> <p>32.9 - 33.2m Pale brown, bleached and silic'd adj to contact.</p> <p>‡33.2 - 34.5‡m Bleached, strongly alt'd (qtz-ser) adj to contact. Strong talc-ser on facts @ 80 deg to CA. <5% chalc vns, to 2 cm, weak banding, @ 60-85 deg Min apple green alt of fsp(mariposite?) «min chalc vning, min marip»</p> <p>34.5 - 36.2m min. chalc vnlts, strong carb vnlts.</p>	<p>1% v. fine diss py</p> <p>33.2 - 34.5m Min py dissem and frac fill.</p>	
36.20 TO 42.70	Feldspar-Biotite phyric intrusive «MARRON DIO R? DYKE»	<p>Fresh, massive, dark grey, medium grained feldspar biotite phyric intrusive (Diorite??) (Tertiary)</p> <p>- 30% plag phenos, avg 2mm (may be zoned)</p> <p>- 15% biotite phenos, avg 1mm in fng matrix</p> <p>36.2m Sharp, irregular contact</p> <p>38.1 - 40.0 m Pale brown colour.</p> <p>42.7m Sharp lower contact @ 40 deg to CA.</p>		<p>Minor late carb vnlts and frac fill throughout.</p> <p>V. weak perv chl-hem alt'n (propylitic)</p> <p>38.1 - 40.0m Rusty, bleached interval. Plag alt'd to clay & Fe stained. Mafics are Fe oxidized.</p>		

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
42.70 TO 91.44	«KNOB HILL ANDES»	<p>Dark green, fine grained andesite ("greenstone") as above (Knob Hill). Locally bx or weakly plag phyric.</p> <p>43.5 - 43.7m bx</p> <p>51.35 - 52.65m plag phyric (gradational into and out of fng and)</p> <p>55.1 - 58.42m Pale brown, remnant feldsp phyric texture visible.</p> <p>‡58.42 - 60.0‡m «Chalced. vn» V. rusty, grey-white bx with silic'd wall rx (porph and) clasts. Poor recov.</p> <p>‡60.0 - 63.8‡m Pale pinkish brown xtal tuff (fels?). Feldspar phyric, rare and frags (alt'd to chl). «Xtal tuff»</p> <p>‡63.8 - 71.75‡m Fine bx. Pale brown chert bx/pebble conglom. «Chert pebble congl» Up to 40% grey chert frags, avg 0.5 cm, rounded to angular, in alt'd feldp porph mtrx. Matrix consists of 20% feldsp xtals, alt'd to clay, in an orange oxidized gmass. Conglomerate grades downwards into a massive silic'd bx andesite with no chert frags.</p> <p>71.75 - 77.5 m Dark green-grey andesite. Remnant feldspar phyric texture visible. Locally bx with chert frags.</p> <p>‡77.5 - 91.44‡m Pale grey, strongly altered tuff. Locally bx. Remnant feldsp phyric text visible locally. V. fractured core «Xtal tuff»</p> <p>79.25 - 79.8m Matrix supported bx. Silic'd and clay alt'd clasts (avg .5 cm) in fng silic pyritic mtrx. Fault bx.</p> <p>‡83.00 - 83.05‡m 5cm «chalc bx». Alt'd frags in silic'd py mtrx.</p>		<p>Weak perv chl-hem (propylitic) alt'n throughout. Mod late carb stringers and veins (to 4 cm) - random angles.</p> <p>51.35 - 52.65m Pale green, bleached with clay alt'd feldsp phenos. Locally strongly hematitic.</p> <p>‡55.1 - 58.42‡m Str bleaching, silic'n (increasing downwards). Talc-seric on frags. Mafics alt'd to Fe oxide. «bleach, silic» 58.42 - 60.0m Chalcedony vn</p> <p>‡60.0 - 63.8‡m Bleached, strongly silic'd. Feldspars alt'd to clay. «bleach, silic»</p> <p>‡63.8 - 71.75‡m V. strong silic'n. Remnant feldsp alt'd to clay. Seric on frags. Min late calcite (and lesser chalc) vns to 2 cm. Rusty frags. V. minor mariposite. «silic, min marip»</p> <p>72.8 - 73.15m Bleached, silic'd. 73.15 - 73.6m Pale green, silic'd. 73.6 - 73.9m Bleached, strong silic'n, minor chalc vns to 0.5 cm. 74.2 - 74.4m Bx, 10% qtz frags in silic'd bleached andesite, sharp contact to unalt'd andes below. 74.4 - 77.5m Strong silic'n. Mod late carb stringers. 77.5 - 91.44m Strong bleaching and silic'n throughout. Strong seric on frags. ‡72.8 - 91.44‡m «silic»</p>	<p>Minor dissem py and py stringers.</p> <p>‡58.42 - 60.0‡m 3 - 5% diss py «5% py»</p> <p>‡60.0 - 63.8‡m «5% py», (repl mafics?) and stringers.</p> <p>‡63.8 - 71.75‡m «5% py»</p> <p>‡73.6 - 73.9‡m «5% py»</p> <p>‡74.4 - 77.5‡m «5% py»</p> <p>‡77.5 - 91.44‡m «2-5% py», diss and blebs.</p>	<p>‡58.0 - 60.5‡m «Fault Zone» 70 deg to CA</p> <p>‡79.25 - 80.0‡m «Fault Zone»</p> <p>‡82.7 - 83.0‡m «Fault Zone»</p> <p>‡89.2 - 89.8‡m «Fault Zone»</p>

HOLE NUMBER: MDH-88-3

MINNOVA INC.
DRILL HOLE RECORD

DATE: 15-May-1990

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		85.8 - 86.0 Finely bx. END OF HOLE				

HOLE NUMBER: MDH-88-3

DRILL HOLE RECORD

LOGGED BY: W. HARRIS / L. LEE (1990) PAGE: 5

Sample	From (m)	To (m)	Length (m)	ASSAYS					GEOCHEMICAL										COMMENTS	
				Cu %	Zn %	Pb %	Ag gm/T	Au gm/T	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb	As ppm	Sb ppm	Mo ppm	Hg ppb	F ppm		Cr ppm
51101	4.00	6.00	2.00						0.3	92	2							640		
51102	10.00	12.00	2.00						0.1	9	3							1480		
51103	16.00	18.00	2.00						0.1	101	23							700		
51104	18.00	20.00	2.00						0.1	27	23							830		
51105	24.00	26.00	2.00						0.1	12	5							600		
51106	28.00	30.00	2.00						0.1	7	14							590		
51107	33.00	34.00	1.00						0.2	63	153							810		
51108	34.00	35.00	1.00						0.2	6	72							950		
51109	38.00	40.00	2.00						0.1	4	51							830		
51110	44.00	46.00	2.00						0.1	5	6							630		
51111	50.00	52.00	2.00						0.1	8	30							680		
51112	56.00	58.00	2.00						0.1	4	22							840		
51113	58.00	60.00	2.00						0.1	16	45							610		
51114	60.00	62.00	2.00						0.1	11	10							830		
51115	62.00	64.00	2.00						0.1	22	27							660		
51116	64.00	66.00	2.00						0.1	15	31							640		
51117	66.00	68.00	2.00						0.1	6	26							690		
51118	68.00	70.00	2.00						0.6	109	32							430		
51119	70.00	72.00	2.00						0.3	35	60							590		
51120	76.00	78.00	2.00						0.1	17	14							660		
51121	78.00	80.00	2.00						0.1	11	44							790		
51122	80.00	82.00	2.00						0.1	14	27							950		
51123	82.00	84.00	2.00						0.1	9	87							1120		
51124	84.00	86.00	2.00						0.1	2	81							710		
51125	86.00	88.00	2.00						0.1	3	54							880		
51126	88.00	90.00	2.00						0.1	8	48							960		
51127	90.00	91.44	1.44						0.1	2	11							600		

Sample	From (m)	To (m)	Length (m)	Al2O3 %	BaT %	CaO %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %	SiO2 %	TiO2 %	S %	TOTAL %	Ag ppm	As ppm	Ba ppm	Cu ppm	Pb ppm	Sb ppm	Zn ppm	Au ppm
19906	6.00	9.00	3.00																					
19907	64.00	67.00	3.00																					

HOLE NUMBER: MDH-88-4

MINNOVA INC.
DRILL HOLE RECORD

IMPERIAL UNITS:

METRIC UNITS: X

PROJECT NAME: RAINBOW
PROJECT NUMBER: 661
CLAIM NUMBER:
LOCATION: 4KM NW OF MIDWAY, BC

PLOTTING COORDS GRID:
NORTH: 10230.00N
EAST: 10575.00E
ELEV: 938.70

ALTERNATE COORDS GRID:
NORTH: 102+30N
EAST: 105+75E
ELEV: 938.70

COLLAR DIP: -45° 0' 0"
LENGTH OF THE HOLE: 210.31m
START DEPTH: 0.00m
FINAL DEPTH: 210.31m

COLLAR GRID AZIMUTH: 110° 0' 0"

COLLAR ASTRONOMIC AZIMUTH: 110° 0' 0"

DATE STARTED: November 11, 1988
DATE COMPLETED: November 15, 1988
DATE LOGGED: November 12, 1988

COLLAR SURVEY: NO
MULTISHOT SURVEY: NO
RQD LOG: NO

PULSE EM SURVEY: NO
PLUGGED: NO
HOLE SIZE: NQ

CONTRACTOR: IRON MNTN DRILLING CO.
CASING: 4.57m
CORE STORAGE: Boundary Falls Farm

PURPOSE: To test the Silica Veined Structure, between the Picture Rock Quarry and MDH-87-2.

DIRECTIONAL DATA:

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments	Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
106.00	-	-43° 0'	ACID	OK		-	-	-	-	-	
210.00	-	-46° 0'	ACID	OK		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
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FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 4.90	«CASING»					
4.90 TO 93.70	Feldspar Porphyry/ Porphyritic Andesite? «FSP PORPH»	<p>Medium grey-green, crowded feldspar porphyry. 40-50% tabular plag phenos (2% of fsp avg 4mm, rest avg 1mm) in fng dark grey-green mtrx. (crowded phase and surf equiv? of feldspar porphyry)</p> <p>4.90-8.0m Broken, oxidized, ground core.</p> <p>‡9.10-9.60‡m «Fault zn» broken, oxidized core and clay gouge.</p> <p>11.60-12.19m Altered fsp porph. Light green, med grained.</p> <p>12.10-12.19m Bx</p> <p>12.19-21.44m Fsp Porphyry. Green, med grained. Same as 4.90 - 11.60m</p> <p>21.44m Grad contact.</p> <p>21.44-22.30m Alt'd Fsp Porph. Light buff-green, med grained.</p> <p>22.15 - 22.3m bx, Fault gouge @ 60 deg to CA.</p> <p>22.30-29.25m Fsp Porphyry (unalt'd). Green, med grained. Same as 4.90 to 11.60m</p> <p>29.25m grad contact</p> <p>29.25-30.90m Andesite. Light buff-green, med grained.</p> <p>30.90 - 30.95m Buff gouge zn @ 70 deg to CA.</p> <p>30.90-31.70m Andesite? Gradational into Fsp porph Med to dark green, fine grained.</p> <p>31.70-36.5m Crowded fsp porph. Green, med grained.</p> <p>‡36.5 - 62.5‡m «Fault zn» Fine to med grained, crowded fsp porph, strongly</p>		<p>Weak chl and tr epid alt'n throughout.</p> <p>‡11.6 - 12.19‡m «Bleac, silic, seric»</p> <p>‡21.44 - 22.30‡m «bleach, silic»</p> <p>23.10m 2cm white qtz vn @ 80 deg to CA</p> <p>‡29.25 - 30.90‡m «bleach, silic».</p> <p>31.70 - 36.5m Slight clay alt'n of fsp near lower contact.</p>	«1-3% py» -diss	<p>‡22.15 - 22.30‡m «Fault zn»</p>

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		oxidized (orange). V. strong Fe alt'n of mafics. Bx. 36.5 - 48.0m v. poor recov, broken ground core. 48.0 - 48.46m Chalc vn, bx. Banding @ 45 deg to CA. 60% chalc (grey-white), with alt'd wall rx frags, avg 4 cm. 48.2 - 53.0m Good recov, massive grey-green crowded fsp porph. 53.0 - 54.2m v. rusty, orange colour. Good recov V. strong oxid. 54.2 - 56.4m Grey-green, fng, v. weak rem fsp phyric text. Possibly v. strong chl/clay alt'n of crowded fsp porph? or tuff???		36.5 - 48.0m Strongly oxidized, silic and clay alt'd, v. rusty bx. 2% chalc vning (avg 2cm) throughout. «str silic, clay alt» 48.0 - 48.46m «Chalc vn, bx».		
		56.4 - 58.0m Fe stained alt'd fsp porph, sim to 53.0 - 54.2m. 58.0 - 62.5m V. broken, ground core. Poor recov. 62.5 - 92.1m Felsp porph (not crowded phase). 30-35% fsp phenos, 2-7mm, avg 4mm, tabular. Phenos show mod to good alignment @ 50-80 deg to CA, locally. Unit is rusty, oxidized at: 64-65m 66.6-67.1m 70.4-71.2m 78.3-79.1m 92.1 - 93.7m Fng, no large felsp phenos, equi-granular text. (alt'n adj to dyke???)		58.0 - 62.5m Strong Fe stain, perv chl, clay alt'n. Locally bx with v. strong silica flood. 62.5 - 92.1m <1% minor drusy qtz vns @ 30-45 deg, avg 1 cm. Weak seric alt'n (fracs), feldspars partly alt'd to clay. 92.1 - 93.7m Str chl alt'n		58.0 - 62.5m «Fault zn»

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
93.70 TO 94.80	«LAMP DYKE»	Dark grey-brown, fine grained lamp dyke. 5% fine bi xtals, 10% fclsp (both avg 1mm) in fine grained mtrx. Fresh, massive. Sharp contacts at 40 deg to CA.				
94.80 TO 148.75	Subporph to fng dior/andes (phase of Fsp por) «MICRODIORITE»	Grey-green, fine to medium grained. Grades from fine grained, non-porphyrific andesite? (poss surface equiv of Fsp Porph intrusive) - NOT the same andesite as Knob Hill, to coarser grained porphyritic and crowded fsp porphyry. 94.80 - 97.3m Med grained, equigranular, fsp rich andesite? 97.3 - 97.55m Pale brown colour. 97.55 - 101.9m Same as 94.8-97.3m, locally grades to fsp porph. 101.9 - 102.75m Pale brown, 35 cm bx core, silic clasts in py rich mtrx, with bleached silic zones on either side. 102.75 - 103.8m Crowded feldspar porphyry, light grey-green. 50% fsp, avg 1mm, 15% mafics, 0.5mm in fng gmass. 103.8 - 110.3m Equigranular, fng, as in 94.8 - 97.3m. 110.3m gradational contact 110.3 - 115.9m Med grained, purple-green, fsp porphyry. 40% subaligned phenos, avg 3mm; 5% fine mafics in fng gmass. Massive. 115.9m gradational contact 115.9 - 116.6m fng, med grey-green.		94.8 - 97.3m Weak - mod prop alt'n (chl-hem). 97.3 - 97.55m «bleach, silic». 97.55 - 101.9m Weak-mod prop alt'n. 101.9 - 102.75m «bleach, silic, bx» 103.8 - 107.9m Mod-str prop alt'n (chl-hem). Mod late carb vnlts. 107.0 - 108.8m weak bleach, silic'n 108.8 - 110.3m Mod prop alt'n, 2% late carb vns, to 2 cm, @ 40 deg to CA. 110.3 - 115.9m Mod hem alt'n of mtrx. Fsp alt'd to clay. 115.9 - 116.6m Mod chl alt'n.	101.9 - 102.75m «10% py» - diss	101.9 - 102.75m «Fault zn»

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		<p>116.6 - 128.0m Pale grey-green, crowded fsp porph. 10% coarse fsp phenos, avg 3mm 40% fine fsp phenos, avg <1mm 10% mafics in fng gmass.</p> <p>128.0m gradational contact</p> <p>128.0 - 129.4m Fng, purple-grey andesite.</p> <p>129.4 - 130.8m Crowded feldspar porphyry to equigranular med grained andesite. Med grey-green.</p> <p>130.8 - 132.4m Dark grey-green, fng andesite.</p> <p>132.4 - 137.4m Med grey-green, crowded fsp porph. 137.4m gradational contact</p> <p>137.4 - 140.2m Dark grey-green fng andesite, weakly porphyritic.</p> <p>140.2 - 143.8m Crowded feldspar porphyry, 60% elongate fsp phenos. Phenos locally aligned (@ about 70 deg to CA).</p> <p>143.8m gradational contact</p> <p>143.8 - 147.5m Med grey-green, equigranular andesite.</p> <p>147.5 - 148.75m Pale br, alt'd andesite.</p>		<p>116.6 - 122.0m Weak-mod silic'n. 5% vuggy white Qtz vns to 1.5 cm. Minor rusty frags. «silic, 5% Qtz vns» 119.1m 3 cm Qtz-py vn at 80 deg to CA.</p> <p>122.0 - 128.0 Weak chl alt'n.</p> <p>124.61m 1cm Qtz-py vn @ 45 deg to CA.</p> <p>128.0 - 129.4m Mod prop alt'n.</p> <p>130.8 - 132.4m Mod carb strngs.</p> <p>137.4 - 140.2m Str chl alt'n, fsp alt to clay.</p> <p>140.2 - 143.8m Weak-mod chl alt'n.</p> <p>143.8 - 147.5m Str chl alt'n.</p> <p>147.5-148.75m «Bleach, silic, seric»</p>	<p>116.6 - 122.0m «5% py» -diss</p>	
148.75 TO 199.65	Altered Sheared Andesite «FLT ZN»	<p>Grey-black, fine grained, strongly fract'd andesite and fsp porph, as above. Abundant carb vning. Little remn texts remain.</p> <p>«sheared, alt'd andes»</p> <p>158.00-159.70m Light green, fine-med grained, sub-porph andesite.</p>		<p>Strong chl alt'n. Local perv silic. Strong cc vning. Clay/talc on fractures. Feldspars altered to clay.</p> <p>Cc vns earlier than shearing.</p> <p>«str chl, clay alt»</p>	<p>«5-30% py» v fine, diss.</p>	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		<p>159.70m Fault gouge @ 45 deg to CA</p> <p>164.55-166.75m Orange (Fe stained) flt gouge. 40 deg to CA.</p> <p>166.75-171.50m Light green, med grained, silic andesite. Subporph to crowded fsp porph in centre of section.</p> <p>168.90-169.90m Orange Fe-stained andesite.</p> <p>179.65-180.10m Light green and dyke? 80 deg to CA, sharp contacts.</p> <p>192.60-197.90m bx</p> <p>197.90-199.65m Light green, v. fng.</p> <p>199.00-199.20m Fng qtz dior?, sharp contact with minor gouge.</p> <p>199.10-199.65m Med green, py rich, sericitized andesite.</p>			<p>192.05-192.20m 40% v. fine py. «40% py»</p>	
199.65 TO 210.31	«MARRON? DY KE»	<p>Massive, fresh, med grained intrusive. Pale grey-brown, equigranular. 75% feldsp, avg 1.5mm 5% bio, avg 2mm 5% qtz, avg 2mm</p> <p>Tertiary? dyke (later than Fsp porph intr).</p> <p>END OF HOLE</p>		Minor seric on frags. Weak seric alt'n of plag.		

Sample	From (m)	To (m)	Length (m)	ASSAYS					GEOCHEMICAL											COMMENTS	
				Cu %	Zn %	Pb %	Ag gm/T	Au gm/T	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb	As ppm	Sb ppm	Mo ppm	Hg ppb	F ppm	Cr ppm		Pt ppb
51128	10.00	12.00	2.00						3	9	80	0.1	1	9	2	1		500	7		
51129	16.00	18.00	2.00						8	5	74	0.1	2	3	2	1		460	16		
51130	22.00	24.00	2.00						6	6	65	0.1	13	5	2	1		430	8		
51131	28.00	30.00	2.00						15	10	33	0.2	13	2	2	1		410	5		
51132	36.00	38.00	2.00						7	4	48	0.1	300	39	2	1		650	5		
51133	38.00	40.00	2.00						16	11	69	1.1	188	300	4	1		800	8		
51134	40.00	42.00	2.00						3	3	62	0.2	52	24	2	2		940	6		
51135	42.00	44.00	2.00						5	4	52	1.0	1910	47	2	2		570	8		
51136	44.00	46.00	2.00						4	6	44	3.0	470	162	2	3		680	9		
51137	46.00	48.00	2.00						7	7	41	1.8	260	301	11	2		610	7		
51138	48.00	50.00	2.00						4	2	58	1.2	2280	74	2	1		570	4		
51139	50.00	52.00	2.00						5	6	43	0.2	640	106	2	1		580	4		
51140	54.00	56.00	2.00						8	7	69	0.3	25	39	4	1		940	8		
51141	58.00	60.00	2.00						20	5	40	0.6	159	66	5	2		700	11		
51142	60.00	62.00	2.00						28	14	48	1.4	260	143	6	2		810	20		
51143	66.00	68.00	2.00						16	5	45	0.1	28	12	2	1		950	15		
51144	72.00	74.00	2.00						19	11	38	0.4	43	64	3	1		780	9		
51145	78.00	80.00	2.00						15	7	45	0.3	38	53	2	1		920	10		
51146	84.00	86.00	2.00						35	7	72	0.4	30	43	2	1		980	10		
51147	90.00	92.00	2.00						37	8	49	0.1	11	12	2	1		610	23		
51148	96.00	98.00	2.00						24	3	77	0.1	7	2	2	1		550	2		
51149	102.00	104.00	2.00						26	11	73	0.1	5	22	2	1		460	5		
51150	106.00	108.00	2.00						19	9	64	0.1	22	3	2	1		390	5		
51151	114.00	116.00	2.00						26	9	68	0.1	19	10	2	1		540	6		
51152	118.00	120.00	2.00						24	10	57	0.2	75	59	2	1		710	4		
51153	120.00	122.00	2.00						4	10	81	0.3	112	102	2	1		610	6		
51154	123.00	125.00	2.00						61	8	53	0.8	98	70	4	2		630	5		
51155	126.00	128.00	2.00						48	8	64	0.3	8	5	2	1		450	7		
51156	132.00	134.00	2.00						5	12	67	0.1	32	52	2	1		700	4		
51157	134.00	136.00	2.00						42	4	68	0.2	57	69	6	1		660	6		
51158	140.00	142.00	2.00						20	8	53	0.1	9	12	2	1		620	3		
51159	146.00	148.00	2.00						18	11	75	0.1	22	32	2	1		690	8		
51160	148.00	150.00	2.00						27	239	277	0.7	67	163	2	1		1050	7		
51161	150.00	152.00	2.00						43	545	217	1.2	52	144	2	1		860	4		
51162	152.00	154.00	2.00						28	14	90	0.7	22	191	4	1		890	4		
51163	154.00	156.00	2.00						27	21	95	0.9	62	197	4	2		660	4		
51164	156.00	158.00	2.00						27	18	86	0.7	24	56	2	1		710	4		
51165	158.00	160.00	2.00						22	11	96	0.3	21	73	3	1		541	9		

HOLE NUMBER: MDH-88-4

ASSAY SHEET

DATE: 15-May-1990

Sample	From (m)	To (m)	Length (m)	Cu %	Zn %	Pb %	Ag gm/T	Au gm/T	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb	As ppm	Sb ppm	Mo ppm	Hg ppb	F ppm	Cr ppm	Pt ppb		
51166	160.00	162.00	2.00						23	10	112	0.1	7	29	2	1		780	10			
51167	162.00	164.00	2.00						25	10	101	0.1	10	40	2	1		750	10			
51168	165.00	165.10	0.10						27	11	157	0.1	30	152	5	2		1020	13			
51169	168.00	170.00	2.00						27	11	95	0.1	14	33	2	1		730	15			
51170	170.00	172.00	2.00						25	13	91	0.1	8	28	5	1		580	11			
51171	172.00	174.00	2.00						22	12	93	0.2	12	39	2	1		500	10			
51172	174.00	176.00	2.00						20	7	101	0.1	16	92	2	1		420	8			
51173	180.00	182.00	2.00						27	11	149	0.3	7	24	2	1		510	10			
51174	186.00	188.00	2.00						43	13	122	0.3	1	45	2	1		530	44			
51175	191.00	193.00	2.00						21	13	67	0.2	9	18	2	2		370	13			
51176	196.00	198.00	2.00						22	9	71	0.1	1	18	2	1		360	12			
51177	198.00	199.00	1.00						21	7	72	0.2	1	15	2	1		350	12			
51178	200.00	202.00	2.00						4	16	43	0.2	1	4	2	1		630	28			
51179	206.00	208.00	2.00						16	27	66	0.2	1	2	2	1		560	18			

HOLE NUMBER: MDH-88-4

ASSAY SHEET

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HOLE NUMBER: MDH-88-4

GEOCHEM. SHEET

DATE: 15-May-1990

Sample	From (m)	To (m)	Length (m)	Al2O3 %	BaT %	CaO %	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	P2O5 %	SiO2 %	TiO2 %	S %	TOTAL %	Ag ppm	As ppm	Ba ppm	Cu ppm	Pb ppm	Sb ppm	Zn ppm	Au ppm
19908	203.00	206.00	3.00																					