

823589

HOLE NUMBER: TAM-88-01

MINNOVA INC.  
DRILL HOLE RECORD

IMPERIAL UNITS: METRIC UNITS: X

PROJECT NAME: TAM O'SHANTER	PLOTTING COORDS GRID:	ALTERNATE COORDS GRID:	COLLAR DIP: -60° 0' 0"
PROJECT NUMBER: 661	NORTH: 550.00N	NORTH: 5+50N	LENGTH OF THE HOLE: 299.90m
CLAIM NUMBER: SHANTER	EAST: 35.00W	EAST: 0+35	START DEPTH: 0.00m
LOCATION: GREENWOOD	ELEV: 1245.00	ELEV: 1245.00	FINAL DEPTH: 299.90m

COLLAR GRID AZIMUTH: 135° 0' 0"

COLLAR ASTRONOMIC AZIMUTH: 135° 0' 0"

DATE STARTED: December 4, 1988	COLLAR SURVEY: NO	PULSE EM SURVEY: NO	CONTRACTOR: BERGERON DRILLING
DATE COMPLETED: December 12, 1988	MULTISHOT SURVEY: NO	PLUGGED: NO	CASING: 16.8m
DATE LOGGED: May 8, 1990	RQD LOG: NO	HOLE SIZE: NQ	CORE STORAGE: BOUNDARY FALLS FARM

PURPOSE: To test the Bengal zone and IP anomaly, south of the Bengal shaft.

DIRECTIONAL DATA:

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments	Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
121.90	-	-60° 0'	ACID	OK		-	-	-	-	-	
299.90	-	-56° 0'	ACID	OK		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
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-	-	-	-	-		-	-	-	-	-	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 16.80	«CASING»					
16.80 TO 50.80	«KETTLE RIV FM»	<p>16.8 - 19.7m Coarse conglom, sub ang to well rounded clasts, up to 5cm, in coarse grained tuffaceous (fsp rich) mtrx. Med green-grey colour, clasts gst, chert.</p> <p>19.7 - 25.2m Med grained, green, xtal lapilli tuff. Weak bedding @ 40 deg to CA. 30% felspar xtals in fng mtrx, 20% lapilli clasts, avg 1 cm of Marron????, fng volc +...</p> <p>21.6 - 22.1m gouge zone</p> <p>22.7 - 23.0m gouge zone, 40 deg to CA</p> <p>23.0 - 24.3m Pale buff-grey tuff.</p> <p>25.2m grad contact into conglom</p> <p>25.2 - 50.8m Dark grey-green conglom. 35% subang to well rounded clasts, dom chert, lesser fng pale green alt'd vloc. Clasts avg 0.8 cm, range up to 5cm. Mtrx med to fine grained, fsp rich tuffaceous.</p> <p>25.6 - 25.7m fault gouge</p> <p>26.7 - 27.1m Dark green andes tuff interbed. <i>48.7-50.1 Pale brown alt'd felsic(?) like strongly</i></p> <p>50.2 - 50.8m <del>Dark grey green conglom.</del> <i>strongly foliated, sheared above contact f.l.n @ 78°</i></p> <p>50.8m irreg contact. BASE OF TERTIARY</p>		<p>16.8 - 19.7m min late qtz vnlt.</p> <p>19.7 - 21.2m Minor seric on fracs</p> <p>23.0 - 24.3m Min qtz-carb vnlt</p> <p>25.2 - 50.8m Weakly silic'd mtrx. Minor vuggy xtalline qtz vnlt.</p> <p>26.7 - 27.1m Str chl alt <i>48.7-49.8 strong clay alt'n. maybe bx with qtz flooding</i></p> <p>49.8 - 50.2m Str silic and qtz vning <i>50.2-50.8 minor mariposite</i></p>	<p>16.8 - 19.7m 5% diss py «5% py»</p> <p>19.7 - 21.2m min diss py</p> <p>23.0 - 24.3m min diss py</p> <p>25.2 - 50.8m 2-5% py, mainly in mtrx Minor py repl mafics in volc clasts. «2-5% py»</p>	<p>21.6 - 22.1m «Fault zone»</p>
50.80 TO 61.00	«KNOB HILL ANDES»	<p>Dark grey-green, v. fine grained-aphanitic cherty andesite. Rarely 10-20% good fsp xtals (fine) are visible. Variable between aph cherty andesite and less cherty chl alt'd andesite (&amp; andes tuff).</p> <p>59.0 - 61.0m v. pale green, aphanitic silic'd andes tuff.</p>		<p>Mod late qtz strngrs (@30 deg). Local str chl alt'n. Minor carb alt'n and rusty fracs.</p> <p>59.0 - 61.0m silic'd and clay alt'd «silic, clay alt»</p>	<p>«2% py», diss, blebs and local strngrs</p>	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
61.00 TO 61.60	«DIORITE? DYKE»	Pale grey-brown, coarse grained strongly alt'd dyke. 50% coarse fsp (alt'd to clay), 40% mafics (alt'd, Fe oxidized). Poss orig a diorite.		V. strong alt'n (clay). «str clay alt»		
61.60 TO 294.20	«KNOB HILL AND/CHERT»	<p>Green andesite, as in 50.8 - 61.0m with local tuffaceous, cherty tuff and chert interbeds.</p> <p>61.6 - 62.8m Fng, sandy, locally str silic'd tuffaceous interbed. Contains several large rounded clasts of chert.</p> <p>62.8 - 63.6m Grey aphanitic cherty andes tuff. Local gougy sections.</p> <p>63.6 - 63.8m Flt gouge, grey green.</p> <p>63.8 - 68.3m Dark green andesite, med-fine grained. 30% fsp, avg 0.8mm in fng dark green chl gmass. Rare black, pyritic cherty xenoliths to 6 cm.</p> <p>68.3 - 69.9m Grades downwards into cherty andes tuff. Pale green with mod Fe stain, bx near lower contact.</p> <p>69.9m grad contact</p> <p>69.9 - 71.7m Grey aphanitic chert interbed. Weak-mod bx (near lower contact) with 40% ang chert clasts in rusty mtrx.</p> <p>71.7 - 72.8m Grey-green, fng andesite. Locally cherty. May be weakly bx.</p> <p>72.8 - 73.7m Grey aphan chert.</p> <p>73.7 - 78.0m Anes tuff with local cherty and cherty andes tuff intervals. Bedding?/fol'n @ 45 deg.</p> <p>78.0m grad contact</p> <p>78.0 - 79.5m Grey chert, locally cherty andes tuff.</p> <p>79.5m grad contact</p>		<p>61.6 - 62.8m mod Fe oxid</p> <p>63.8 - 68.3m Strong clay alt'n. Weak perv hem. Minor late carb vnlts. «clay alt»</p> <p>68.3 - 69.9m mod Fe stain</p> <p>71.7 - 72.8m Mod chl alt'n</p> <p>73.7 - 78.0m Locally mod chl alt'n</p>	<p>63.8 - 68.3m 2% diss py «2% py»</p> <p>68.3 - 72.8m 2% py, diss and strngrs «2% py»</p> <p>69.9 - 71.7m 5% py, diss and blebs «5% py»</p> <p>71.7 - 72.8m 1% diss py</p> <p>72.8 - 73.7m 2% py, diss and blebs</p> <p>78.0 - 79.5m 5% py, diss and vns (to 1.5 cm). «5% py»</p>	<p>71.5 - 71.8m «Fault zone»</p>

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		79.5 - 83.4m Pale green-brown tuff. Fng, locally cherty.		79.5 - 83.4m Minor late qtz vnlt and silic'n.	79.5 - 83.4m 3% py - diss and vnlt <3% py>	
		83.4 - 105.5m Chert. Grey aphanitic massive chert. Commonly bx (crackly type bx) with seric on fracs. Local bx (fault) zones.		83.4 - 105.5m Mod seric on fracs. Minor late clear-grey qtz strngs and vns (may be vuggy).	83.4 - 105.5m 2-5% py, diss, vns to 0.5 cm and interstitial to crackle bx frags. <2-5% py>	
		84.0 - 84.6m Fault zone, fine bx, poor recov.		94.5m 3cm white qtz vn with chert bx frags. 5 deg to CA.	102.5 - 105.5m 5% py, diss and in vnlt paralleling bedding.	84.0- 84.6m «Fault zone»
		102.5 - 105.5m Chert, as above, wth 20-80% fng pale grey-br tuff interbeds, increasing down. Bedding @ 50 deg to CA.		105.0 - 111.0m Local bleaching and silic'n.	105.0 - 111.0m 1% py, diss.	
		105.5 - 111.0m Cherty andes tuff. Pale green, fng to aphanitic.		105.5 - 106.8m Bleached, str clay alt'n. Locally weak perv hem. Min talc-serp on shears. «clay, bleach»		
		105.5 - 106.8m Pale buff, bleached alt'd tuff.		111.0 - 133.5m Minor grey-clear qtz strngs (may be vuggy).	111.0 - 133.5m 5% py - diss and vnlt <5% py>	
		111.0m grad contact		119.2m 1 cm clear fluorite vn (coarse xtalline).		
		111.0 - 133.5m Chert. Med grey, aphanitic chert, as above. Minor tuff component (rare rem plag visible). Locally may be weakly sucrosic (rext).		133.5 - 137.9m Mod Fe carb, chl alt'n. Late carb vnlt. Min seric on fracs. Local perv clay alt'n.	133.5 - 137.9m <2% py>	
		132.2 - 132.5m «Fault bx». 40% chert clasts avg 1cm, in fng white silic mtrx.		137.9 - 294.2m Weak-mod perv chl. Mod late carb vnlt (dom 45 deg to CA). Chl altn increases downwards.	137.9 - 294.2m 5% py - diss and vnlt <5% py>	
		132.5 - 133.5m Increasing tuffac component, dirty appearance.				
		133.5m grad contact.				
		133.5 - 137.9m Andesitic tuff. Fng; med orange-brown-grey tuff.				
		137.9m grad contact				
		137.9 - 294.2m Andesite. Dark grey-green, fng massive andesite. Locally cherty near lop of interval. Grades downwards into med grained with 20% mafics, 20% plag visible.				
		171.7 - 175m grades into and out of coarser grained fsp rich phase.				

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		197.4 - 206.5m Pale green fng cherty andes tuff. 206.5m grad contact. Weak banding @ 50 deg to CA.		197.4 - 206.5m mod chl alt'n.		
		206.5 - 211.5m Med grained andes, 30% fsp, avg 1mm, in fng dark green gmass. Massive, grey-green. 211.5m grad contact		206.5 - 211.5m Mod perv chl alt'n. Minor late carb vnlts.	206.5 - 211.5m 1% diss py.	
		211.5 - 230.0m Fng grey-green andes as above. 15% mafics visible. Local cherty tuff interbeds (grades downwards into increasing cherty tuff and)		211.5 - 230.0m Weak-mod perv chl. Minor late carb and qtz (with py) vnlts (dom @ 45 deg to CA).	‡211.5 - 230.0‡m 2-5% py (diss). Py increases down. «2-5% py»	
		230.0 - 231.5m Flt zone, bx, pale green, aphan cherty tuff, poor recov.		230.0 - 231.5m Strong seric on frags. Minor late white qtz vnlts.		‡230.0 - 231.5‡m «Fault zone»
		231.5 - 272.5m Dark grey-green fng andes, as above. Local pale green cherty tuff interbeds.		231.5 - 257.8m Str chl alt'n, carb vnlts (decrease downwards from upper contact).	‡231.5 - 272.5‡m «2-5% py»	
		257.8 - 258.4m Dyke?? cutting andesite (not Tertiary). Possibly phase of andesite. 20% mafic phenos, avg 2mm, in fng grey-br mtrx.		258.4 - 290.1m Mod chl alt'n, mod carb vnlts.		‡267 - 269.3‡m «Fault zone»
		267.0 - 267.2m grey-green fault gouge. 267.8 - 268.3m " " "				
		269.1 - 269.25m Green, pyritic flt gouge. 272.5 grad contact				
		272.5 - 276m Coarser grained andes with 30% fsp, 20% mafics in fng gmass. 276m grad contact				
		276 - 290.1m Dark grey-green fng andes as above, increasing cherty tuff component downwards.				
		278.3 - 278.7m Fault gouge				‡278.3 - 278.7‡m «Fault zone»
		288.1 - 288.4m Fault zone?		‡288.1 - 288.4‡m V. strong perv clay alt'n. Seric on frags. «clay»		
		290.1 - 292.5m Aphanitic chert. Grey-green, minor tuff component.				

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		292.5 - 294.2m Chl alt'd andes as above.				
294.20 TO 299.00	«SYEN DYKE CORYELL??»	Dark grey-green, Tertiary syen? dyke. 10% px phenos, avg 2mm, in fng xtalling pinkish gmass of: 40% plag, 40% Kspar, 20% mafics. Fresh, massive. 294.2m Sharp contact @ 45 deg.  298.7 - 299.0m Med green, v. fng mtrx (chill margin).  299.0m Flt contact??		V. minor late carb vnlts.		
299.00 TO 299.90	«KNOB HILL ANDES»	as above.  END OF HOLE				

Sample	From (m)	To (m)	Length (m)	COMMENTS

Sample	From (m)	To (m)	Length (m)
19909	113.00	116.00	3.00



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		
1001	18.70	19.70	1.00					0.01	7	24	75	0.3		1	1								
1002	19.70	20.70	1.00					0.01	14	23	44	0.8		19	2								
1003	21.60	22.10	0.50					0.01	15	35	54	0.9		12	1								
1004	23.00	23.90	0.90					0.01	7	31	42	0.7		22	2								
1005	25.70	26.70	1.00					0.02	37	20	78	0.7		1	1								
1006	26.70	27.10	0.40					0.02	5	21	76	0.5		5	1								
1007	28.50	29.50	1.00					0.01	351	111	97	1.5		17	2								
1008	29.50	30.50	1.00					0.01	5	224	152	1.3		11	1								
1009	30.50	31.50	1.00					0.01	68	271	81	1.2		9	2								
1010	31.50	32.50	1.00					0.03	32	179	88	1.2		15	2								
1011	32.50	33.50	1.00					0.02	15	338	145	1.5		21	1								
1012	33.50	34.50	1.00					0.03	34	1148	121	1.8		33	3								
1013	34.50	35.50	1.00					0.10	486	1131	411	2.4		10	2								
1014	35.50	36.50	1.00					0.06	236	484	259	1.9		21	3								
1015	36.50	37.50	1.00					0.15	310	387	196	2.0		16	2								
1016	37.50	38.50	1.00					0.13	286	111	149	1.5		21	4								
1017	38.50	39.50	1.00					0.16	97	37	72	1.2		19	1								
1018	39.50	40.50	1.00					0.03	338	263	133	1.5		17	1								
1019	40.50	41.50	1.00					0.05	276	341	167	1.4		7	1								
1020	41.50	42.50	1.00					0.01	98	349	196	1.1		1	1								
1021	42.50	43.50	1.00					0.04	321	330	165	1.5		12	2								
1022	43.50	44.50	1.00					0.24	1020	35	71	3.0		13	2								
1023	44.50	45.50	1.00					0.62	3169	70	69	7.0		18	4								
1024	45.50	46.50	1.00					0.01	135	20	41	1.1		20	1								
1025	46.50	47.50	1.00					0.01	97	19	36	1.2		25	1								
1026	47.50	48.50	1.00					0.01	67	16	31	1.4		23	2								
1027	48.50	49.50	1.00					0.01	54	15	32	1.1		30	1								
1028	49.50	50.50	1.00					0.04	49	16	36	1.1		21	2								
1029	50.20	50.50	0.30					0.02	97	62	85	3.2		37	6								
1030	50.50	51.40	0.90					0.01	232	16	40	1.0		19	2								
1031	51.40	51.70	0.30					0.03	253	25	54	0.4		13	1								
1032	51.70	52.70	1.00					0.01	132	17	37	1.0		24	1								
1033	52.70	53.70	1.00					0.01	162	14	57	0.1		60	1								
1034	53.70	54.70	1.00					0.02	159	25	37	0.7		6	1								
1035	54.70	55.70	1.00					0.01	209	13	72	1.0		8	1								
1036	55.70	56.90	1.20					0.01	179	27	79	0.8		9	3								
1037	56.90	57.50	0.60					0.06	397	18	50	1.0		13	1								
1038	57.50	58.80	1.30					0.14	31	20	35	1.3		3	1								

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
1039	58.80	59.20	0.40					0.01	20	24	27	1.5		10	2					
1040	59.20	61.20	2.00					0.02	319	26	75	2.0		32	4					
1041	61.20	62.50	1.30					0.02	235	27	107	0.5		29	1					
1042	62.50	63.10	0.60					0.01	197	21	41	1.3		14	1					
1043	63.10	64.10	1.00					0.03	825	22	52	2.3		47	3					
1044	64.10	65.20	1.10					0.04	103	22	66	0.4		7	1					
1045	65.20	66.30	1.10					0.03	220	11	74	1.4		1	1					
1046	66.30	67.30	1.00					0.05	62	19	54	0.5		3	1					
1047	67.30	68.30	1.00					0.06	360	19	48	1.6		23	1					
1048	68.30	69.50	1.20					0.05	175	18	53	0.7		25	2					
1049	69.50	70.60	1.10					0.03	85	23	36	1.4		25	2					
1050	70.60	71.30	0.70					0.08	697	22	23	2.1		27	1					
1051	71.30	71.90	0.60					0.04	387	23	35	1.0		18	1					
1052	71.90	72.90	1.00					0.02	601	22	42	1.9		2	1					
1053	72.90	73.50	0.60					0.01	1027	21	22	1.6		20	2					
1054	73.50	74.40	0.90					0.01	111	17	40	1.0		35	2					
1055	74.40	75.10	0.70					0.01	56	17	30	1.2		20	1					
1056	75.10	76.10	1.00					0.14	447	24	56	1.0		33	1					
1057	76.10	77.00	0.90					0.02	105	19	59	0.7		37	2					
1058	77.00	78.00	1.00					0.01	100	20	50	0.8		32	2					
1059	78.00	78.90	0.90					0.02	238	23	41	1.4		20	1					
1060	78.90	79.30	0.40					0.01	837	20	24	2.2		20	2					
1061	79.30	80.50	1.20					0.12	955	34	52	2.5		1	2					
1062	80.50	81.50	1.00					0.03	338	106	107	1.4		11	9					
1063	81.50	82.50	1.00					0.06	610	19	55	2.1		1	2					
1064	82.50	83.50	1.00					0.11	258	29	38	1.9		9	3					
1065	83.50	84.50	1.00					0.10	673	26	31	1.6		2	3					
1066	84.50	85.50	1.00					0.02	292	14	18	1.0		13	2					
1067	85.50	86.50	1.00					0.02	88	17	18	1.0		17	3					
1068	86.50	87.50	1.00					0.04	432	20	19	1.4		18	3					
1069	87.50	88.50	1.00					0.05	560	13	18	1.2		22	1					
1070	88.50	89.50	1.00					0.02	150	14	17	0.9		31	2					
1071	89.50	90.50	1.00					0.01	294	19	18	1.4		24	2					
1072	90.50	91.50	1.00					0.01	146	20	18	1.4		28	2					
1073	91.50	92.50	1.00					0.02	218	16	20	1.3		16	1					
1074	92.50	93.50	1.00					0.01	153	17	22	1.2		11	2					
1075	93.50	94.50	1.00					0.01	419	17	25	1.2		4	2					
1076	94.50	95.50	1.00					0.02	63	19	26	0.9		7	1					

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		
1077	95.50	96.50	1.00					0.02	97	19	25	1.1		17	2							
1078	96.50	97.50	1.00					0.01	129	16	20	1.1		15	2							
1079	97.50	98.50	1.00					0.02	242	16	24	1.2		14	1							
1080	98.50	99.50	1.00					0.01	173	15	25	0.8		10	1							
1081	99.50	100.50	1.00					0.01	125	20	21	0.9		3	1							
1082	100.50	101.50	1.00					0.01	91	19	21	0.9		1	2							
1083	101.50	102.50	1.00					0.02	112	18	21	1.0		14	2							
1084	102.50	103.50	1.00					0.01	65	17	22	1.1		20	2							
1085	103.50	104.50	1.00					0.01	63	17	36	0.7		7	1							
1086	104.50	105.50	1.00					0.02	129	18	25	1.1		23	1							
1087	105.50	107.00	1.50					0.02	37	32	65	0.8		3	2							
1088	107.00	107.90	0.90					0.04	91	13	28	0.9		10	2							
1089	107.90	108.90	1.00					0.04	130	18	39	1.0		19	2							
1090	108.90	109.70	0.80					0.02	81	17	35	0.8		8	1							
1091	109.70	111.10	1.40					0.01	216	16	28	1.3		7	2							
1092	111.10	111.70	0.60					0.01	162	18	32	1.2		14	2							
1093	111.70	112.80	1.10					0.01	376	12	22	1.5		14	1							
1094	112.80	114.00	1.20					0.01	667	16	21	2.4		17	2							
1095	114.00	115.00	1.00					0.01	220	14	18	1.4		20	1							
1096	115.00	116.30	1.30					0.08	466	14	17	1.7		28	1							
1097	116.30	117.30	1.00					0.04	922	15	18	2.3		2	1							
1098	117.30	118.60	1.30					0.01	395	22	18	1.7		15	1							
1099	118.60	119.60	1.00					0.02	979	24	24	2.1		8	3							
1100	119.60	120.40	0.80					0.02	1151	19	20	2.9		18	2							
1101	120.40	121.50	1.10					0.01	613	17	20	2.5		17	2							
1102	121.50	122.60	1.10					0.01	370	16	18	2.1		20	1							
1103	122.60	123.40	0.80					0.01	174	19	19	1.9		4	1							
1104	123.40	124.50	1.10					0.01	481	15	20	1.9		11	2							
1105	124.50	125.50	1.00					0.03	1176	17	23	2.7		12	3							
1106	125.50	126.60	1.10					0.01	1000	20	25	2.5		13	2							
1107	126.60	127.70	1.10					0.01	687	14	23	1.5		1	1							
1108	127.70	128.70	1.00					0.06	1212	17	27	2.3		20	2							
1109	128.70	129.80	1.10					0.02	2201	17	23	3.4		14	3							
1110	129.80	130.80	1.00					0.01	1023	19	21	2.4		19	2							
1111	130.80	132.00	1.20					0.05	1896	21	24	3.0		12	2							
1112	132.00	133.00	1.00					0.01	119	20	22	1.1		14	1							
1113	133.00	133.70	0.70					0.01	143	17	22	1.1		13	1							
1114	133.70	134.70	1.00					0.01	154	22	51	0.6		26	2							
1115	134.70	135.50	0.80					0.03	87	20	42	0.6		32	3							

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			
1116	135.50	136.00	0.50					0.02	34	24	41	0.9		33	2								
1117	136.00	137.10	1.10					0.01	47	20	57	0.5		1	1								
1118	137.10	138.20	1.10					0.01	135	19	55	0.4		31	1								
1119	138.20	139.20	1.00					0.02	98	17	49	0.4		36	2								
1120	139.20	140.30	1.10					0.01	12	17	37	1.0		5	2								
1121	140.30	141.20	0.90					0.02	6	17	31	0.9		5	1								
1122	141.20	142.30	1.10					0.01	29	14	29	0.9		17	1								
1123	142.30	143.40	1.10					0.01	37	15	25	1.0		17	1								
1124	143.40	144.50	1.10					0.02	90	20	28	1.0		11	2								
1125	144.50	145.60	1.10					0.01	121	20	27	1.0		4	2								
1126	145.60	146.70	1.10					0.03	112	20	29	0.8		8	1								
1127	146.70	147.50	0.80					0.03	62	15	30	0.9		6	2								
1128	147.50	148.10	0.60					0.01	87	20	30	0.9		10	2								
1129	148.10	149.70	1.60					0.02	56	15	38	1.2		1	1								
1130	149.70	150.80	1.10					0.01	76	17	43	1.5		1	4								
1131	150.80	152.30	1.50					0.02	135	18	44	1.2		16	1								
1132	152.30	153.30	1.00					0.01	49	9	48	2.1		29	2								
1133	153.30	154.30	1.00					0.01	6	24	68	1.3		6	1								
1134	154.30	155.40	1.10					0.03	6	26	112	1.5		31	1								
1135	155.40	156.70	1.30					0.06	77	9	50	2.0		45	3								
1136	163.30	164.30	1.00					0.08	252	17	52	2.3		18	4								
1137	168.00	169.20	1.20					0.13	128	11	55	2.8		9	2								
1138	173.40	174.50	1.10					0.10	205	16	42	3.6		34	4								
1139	176.10	176.70	0.60					0.05	111	11	63	0.5		20	1								
1140	180.80	181.20	0.40					0.08	166	19	37	5.0		1	5								
1141	181.40	181.70	0.30					0.01	187	22	38	5.1		2	3								
1142	189.00	190.20	1.20					0.01	83	16	55	3.1		24	3								
1143	192.60	193.80	1.20					0.01	272	13	53	4.3		51	4								
1144	194.60	195.80	1.20					0.02	74	19	46	0.4		1	1								
1145	196.30	197.40	1.10					0.01	108	21	51	1.8		8	2								
1146	202.00	203.00	1.00					0.02	99	15	48	2.1		31	2								
1147	203.30	204.40	1.10					0.01	57	16	53	0.4		34	1								
1148	208.90	210.50	1.60					0.01	112	20	39	3.5		29	3								
1149	216.40	217.00	0.60					0.02	292	22	53	4.2		42	4								
1150	217.30	218.40	1.10					0.01	75	20	35	2.2		9	3								
1151	219.10	220.70	1.60					0.01	139	22	44	0.5		45	1								
1152	221.90	223.70	1.80					0.02	157	19	46	0.5		1	1								
1153	223.70	225.40	1.70					0.01	56	18	38	0.4		34	1								

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			
1154	225.40	226.80	1.40					0.02	58	14	41	2.5		30	3								
1155	230.00	231.40	1.40					0.03	13	11	41	0.4		52	1								
1156	231.40	232.90	1.50					0.01	194	14	46	0.4		35	4								
1157	232.90	234.60	1.70					0.02	83	25	54	0.3		40	1								
1158	238.20	239.00	0.80					0.01	135	28	63	0.5		25	2								
1159	239.30	240.60	1.30					1.85	175	17	47	0.7		37	1								
1160	240.60	241.60	1.00					0.03	74	13	35	0.8		1	1								
1161	242.30	243.60	1.30					0.01	169	10	36	2.6		1	3								
1162	244.20	245.90	1.70					0.03	46	21	33	1.2		1	1								
1163	246.90	248.50	1.60					0.47	79	228	317	4.2		26	4								
1164	249.10	250.20	1.10					0.02	182	16	40	3.6		8	1								
1165	251.10	252.20	1.10					0.01	61	13	49	0.6		8	1								
1166	253.40	254.60	1.20					0.01	240	23	52	0.6		32	1								
1167	255.50	256.60	1.10					0.02	30	20	27	1.2		10	1								
1168	256.50	257.40	0.90					0.01	75	20	29	1.2		3	1								
1169	260.60	261.50	0.90					0.02	39	18	42	0.9		41	1								
1170	261.80	262.90	1.10					0.64	537	23	60	1.6		68	1								
1171	263.60	264.70	1.10					0.09	137	20	45	0.5		46	1								
1172	264.70	265.80	1.10					0.31	224	17	40	2.9		36	2								
1174	266.90	268.00	1.10																				
1173	267.00	268.20	1.20					0.01	97	19	43	0.3		31	1								
1174	269.40	270.40	1.00					0.01	185	15	43	0.8		22	3								
1175	272.50	273.40	0.90					0.02	160	21	39	1.7		34	1								
1176	275.50	276.50	1.00					0.02	148	22	58	0.6		56	2								
1177	276.80	277.60	0.80					0.01	32	19	56	0.6		43	1								
1178	278.20	279.30	1.10					0.03	51	14	39	1.0		49	1								
1179	279.30	280.10	0.80					0.06	146	13	67	0.8		57	1								
1180	280.10	281.20	1.10					0.02	80	19	48	0.9		34	1								
1181	281.20	282.30	1.10					0.01	124	21	47	0.9		1	1								
1182	284.20	285.40	1.20					0.01	263	18	40	1.2		42	1								
1183	286.40	287.20	0.80					0.03	243	13	47	1.1		1	2								
1184	287.20	288.20	1.00					0.02	385	17	33	1.6		9	1								
1185	288.20	289.60	1.40					0.01	68	16	25	1.3		16	1								
1186	289.60	290.40	0.80					0.02	103	21	24	1.4		15	1								
1187	290.40	291.60	1.20					0.01	333	15	21	1.4		36	3								
1188	291.60	292.30	0.70					0.01	279	20	26	1.2		22	2								
1189	292.30	293.20	0.90					0.01	209	20	39	0.7		44	1								
1190	293.20	294.20	1.00					0.01	198	22	44	0.6		36	2								

HOLE NUMBER: TAM-88-01

## ASSAY SHEET

DATE: 1-January-1980

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			
1191	294.20	295.10	0.90					0.01	33	20	61	0.6		22	2								
1192	295.10	296.10	1.00					0.01	29	23	58	0.5		14	1								
1193	296.10	297.10	1.00					0.02	25	29	59	1.1		19	1								
1194	298.40	298.90	0.50					0.01	24	31	65	0.5		20	2								
1195	298.90	299.90	1.00					0.03	195	15	28	1.2		19	1								

HOLE NUMBER: TAM-88-02

MINNOVA INC.  
DRILL HOLE RECORD

IMPERIAL UNITS:

METRIC UNITS: X

PROJECT NAME: TAM O'SHANTER  
PROJECT NUMBER: 661  
CLAIM NUMBER: SHANTER  
LOCATION: GREENWOOD

PLOTTING COORDS GRID:  
NORTH: 550.00N  
EAST: 35.00W  
ELEV: 1245.00

ALTERNATE COORDS GRID:  
NORTH: 5+50N  
EAST: 0+35  
ELEV: 1245.00

COLLAR DIP: -60° 0' 0"  
LENGTH OF THE HOLE: 248.10m  
START DEPTH: 0.00m  
FINAL DEPTH: 248.10m

COLLAR GRID AZIMUTH: 180° 0' 0"

COLLAR ASTRONOMIC AZIMUTH: 180° 0' 0"

DATE STARTED: December 12, 1988  
DATE COMPLETED: December 16, 1988  
DATE LOGGED: May 10, 1990

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

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

CONTRACTOR: BERGERON DRILLING  
CASING: 16.8  
CORE STORAGE: BOUNDARY FALLS FARM

PURPOSE: To test the Bengal zone and IP anomaly, south of the Bengal shaft.

DIRECTIONAL DATA:

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments	Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
248.10	-	-56° 0'	ACID	OK		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
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-	-	-	-	-		-	-	-	-	-	
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-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 0.00 TO 16.80	«CASING»					
16.80 TO 52.70	«KETTLE RIV FM»	<p>16.8 - 18.1m Conglomerate. Green-brown, coarse conglom. 25% subrounded clasts, avg 1-2cm, of mainly fng andes, lesser chert +... Matrix supported, v. coarse granular fsp rich mtrx. Broken, weakly oxidized core.</p> <p>18.1m contact @ 80 deg to CA</p> <p>18.1 - 25.1m Tuffaceous Sst, grey-black, med grn locally carbonaceous or silty interbeds. 25% fsp avg 0.5mm +?. Bedding @ 60 deg to CA.</p> <p>22.7 - 24.1m Pale buff tuffac sst, minor ash interbeds. V qtz rich. Finer grained than above.</p> <p>25.1 - 52.7m Conglomerate. Pale green, fine-med polymictic conglom. Ranges from good matrix supported conglom with large, mainly cherty clasts in coarse tuff mtrx, to clast supported conglom. Clast supported conglom has rounded clasts, 1mm-2cm, avg 4mm, of gst, lesser chert and argil. Complete gradation in clast size from gmass up.</p>		<p>18.1 - 22.7m Minor carb vnlts</p> <p>22.7 - 24.1m Minor seric on fracs</p> <p>25.1 - 52.7m Minor late calc vns, to 3 cm. V. minor qtz strngs. Weak perv clay-chl alt'n.</p> <p>¶33.0 - 33.1m xtalline «qtz-bx» zone</p>	<p>¶16.8 - 18.1m 5% py, diss in mtrx and clasts «5% py»</p> <p>22.7 - 24.1m Min py</p> <p>¶25.1 - 52.7m 2% py, diss and vnlts «2% py»</p>	
52.70 TO 185.80	«KNOB HILL ANDES/CHERT »	<p>52.7 - 53.4m Black, fng foliated interval. Fol'n @ 80 deg, narrow gouge zones at top and bottom of interval.</p> <p>53.4 - 56.3m Pale green andesite, v. fng, cherty with remn fsp.</p> <p>56.3 - 58.9m Pale br, fng tuffaceous unit, weak bedding @ 80 deg.</p> <p>58.9 - 60.3m Pale green andes as in 53.4 - 56.3m. Grades downwards into coarse tuff.</p> <p>¶60.3 - 60.9m «Qtz bx» 30% ang, pale green, bleached cherty andes clasts, avg 0.8cm, in grey xtalline vuggy qtz mtrx.</p>		<p>52.7 - 53.4m Mod carb vnlts &amp; irreg zones.</p> <p>53.4 - 56.3m Min late qtz vns and silic'd zones.</p> <p>56.3 - 58.9m Min late qtz vns to 2 cm.</p>		



FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		60.9 - 64.0m White-grey chert, fng, aphanitic, weak crackle type bx @ top of interval. Bleaching @ lower contact.		60.9 - 64.0m Min rext and late qtz vnlts and bx zones.	¶60.9 - 64.0¶m «2% py» - diss.	
		64.0 - 71.2m Andesite. Med grey-green, aphanitic cherty andesite. Weak banding defined by narrow cherty beds (0.5 cm) @ 70 deg to CA.		64.0 - 71.2m Min carb vnlts and rusty fracs.	64.0 - 71.2m Min py	
		71.2m Grad contact				
		71.2 - 78.8m Andes tuff. Pale green-brown, fng locally cherty. Locally coarse bx with clasts up to 10 cm, grey qtz (py rich) infilling clasts.		71.2 - 78.8m Weak-str perv clay-chl alt'n. Min qtz vnlts and bx infilling.	71.2 - 78.8m Min py	
		78.8m v. irreg contact				
		78.8 - 94.0m Chert. White-grey aphanitic chert, weakly rext. Massive.		78.8 - 94.0m Min late white qtz vnlts	78.8 - 94.0m Min py	
		94.0m Sharp cont @ 90 deg to CA.				
		94.0 - 105.1m Tuff. <i>Pale pinkish brown fine-med grained altered dyke</i> Pale pinkish grey-fng tuff.		¶94.0 - 105.1¶m Mod - locally intense perv clay alt'n. Strong seric on fracs. V. minor white-grey qtz vns. «local str clay alt»	94.0 - 105.1m Min py	¶100.0 - 101.8¶m «Fault zone»
		¶104.9 - 105.1¶m «qtz bx» interval @ contact. Ang tuff clasts, may be str silic, in grey qtz mtrx. <i>at 104.9m</i>				¶104.9 - 105.1¶m «Fault zone»
		105.1 - 107.7m Chert. Grey aphanitic, massive chert, weakly rext.		105.1 - 107.1m Min late white qtz vnlts	105.1 - 107.7m 1% diss py	
		¶107.3 - 107.7¶m Str bx chert. Ang chert and str clay alt'd tuff clasts in dark grey (py rich) mtrx. Locally v. open space mtrx. «str bx chert»			¶107.3 - 107.7¶m 5-10% py (in mtrx) «5-10% py»	¶107.3 - 107.7¶m «Fault zone»
		107.7m Sharp contact @ 50 deg to CA.				
		107.7 - 113.0m Andesite/chert. Gradational from pale green andes, to cherty andes tuff, to chert, and back to andes tuff.			¶107.7 - 113.0¶m 5% diss py «5% py»	
		113.0 grad contact				
		113.0 - 121.8m Chert. Grey-white, massive, aphanitic chert as above.		113.0 - 121.8m V. minor late qtz vnlts V. minor rusty fracs.	¶113.0 - 121.8¶m 5% diss py «5% py»	
		121.8 - 126.7m v. broken, poor recov. Pale		¶121.8 - 126.7¶m Locally v. strong clay		¶121.8 - 126.7¶m «Fault zone»

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		<p>green cherty andes, weakly bx (crackle).</p> <p>126.7 - 139.3m Fng to cherty andesite, dark to pale green.</p> <p>139.3m Sharp contact @ 70 deg to CA.</p> <p>139.3 - 140.2m Pale green, v. siliceous interval (granular qtz). Poss silic'd andes, more likely next cherty tuffaceous unit (sharp contacts).</p> <p>140.2 - 156.8m Pale - dark green andesite, as above. Locally cherty of tuffaceous interbeds. Generally fng to aphanitic, locally grades to slightly coarser grained with 20% fine fsp visible</p> <p>144.3 - 144.5 Green flt gouge @ 45 deg to CA.</p> <p>↓156.8 - 161.2↓m «Qtz bx». Bx andes with 10-30% white vuggy qtz as mtrx between large bx clasts.</p> <p>161.2m grad contact to unsilic bx andes.</p> <p>161.2 - 176.5m Pale-dark green andes, as above, with local cherty or tuffaceous interbeds.</p> <p>176.5 - 178.3m V. broken core, poor recov.</p> <p>178.3 - 185.8m Andes as above.</p>		<p>alt'n, minor rusty frags. «local str clay alt»</p> <p>126.7 - 139.3m Weak perv chl alt'n, mod late carb vnlts. V. minor late xtalline qtz vnlts.</p> <p>140.2 - 156.8m Min late carb and qtz vnlts.</p> <p>161.2 - 176.5m Mod-str late carb vnlts Weak perv chl alt'n.</p>	<p>↓126.7 - 139.3↓m 2% py, diss and strng «2% py»</p> <p>140.2 - 156.8m Min py</p> <p>156.8 - 161.2m min py</p> <p>↓161.2 - 176.5↓m 2% diss py «2% py»</p> <p>↓178.3 - 185.8↓m 2% diss py «2% py»</p>	<p>↓144.3 - 144.5↓m «Fault zone»</p> <p>↓156.8 - 160.8↓m «Fault zone»</p> <p>↓176.5 - 178.3↓m «Fault zone»</p>
185.80 TO 208.60	«FAULT ZN»	185.8 - 208.6m V. soft, broken core, clay gouge and v. strongly clay alt'd andes. Intense soapy white clay in lower end of interval.		↓185.8 - 208.6↓m V. strong-intense clay alt'n. «str clay alt'n»	↓185.8 - 208.6↓m 5% diss py «5% py»	
208.60 TO 211.00	«SERP»	208.6 - 211.0m V. strongly alt'd serp. Pale green-brown, strongly magnetic, locally orange ankeritic.		v. strongly alt'd, locally ankeritic «alt'd, ankeritic»		
211.00 TO 214.90	«KNOB HILL ANDES»	Dark green, fng andesite, as above.		Bleached and silic'd near upper contact (adj to fault zone)		

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
214.90 TO 245.30	«SERP»	Dark grey-green, well foliated, locally mod-str talc alt'd serp. Mod magnetic. Fol'n @ 70 deg.		214.9 - 245.3m Min white qtz vns, to 3 cm.  232.9 - 233.4m White, vitreous qtz vn, 10 cm zone of strong cpy minz'n @ top of interval. «qtz vn»  243.5 - 243.6m Vuggy white xtalline qtz vn.	214.9 - 245.3m 2-5% diss py «2-5% py»  232.9 - 233.0m «15% cpy»	
245.30 TO 248.10	«KNOB HILL ANDES??»	Xtal lithic tuff? Pale grey-brown, med grained, 20% Fsp, avg 1mm, 5% mafics, avg 1mm, 10% large subang bx frags, avg 1-2cm, in fng mtrx ( of strongly alt'd volc). Minor serp on frags.  END OF HOLE		Mod silic'n. «mod silic»	5% diss py, v. min cpy. «5% py, min cpy»	

HOLE NUMBER: TAM-88-02

ASSAY SHEET

DATE: 15-May-1990

Sample	From (m)	To (m)	Length (m)	COMMENTS
19910	206.00	208.60	2.60	

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Sample	From (m)	To (m)	Length (m)
19911	237.00	240.00	3.00

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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		
2001	17.10	18.10	1.00					0.04	16	33	61	0.7		4	1								
2002	25.10	26.10	1.00					0.04	76	28	57	0.6		11	2								
2003	26.10	27.10	1.00					0.02	73	23	52	1.1		14	2								
2004	27.10	28.10	1.00					0.04	111	20	34	0.8		10	1								
2005	28.10	29.10	1.00					0.05	227	23	36	1.2		26	2								
2006	29.10	30.10	1.00					0.02	339	31	38	1.5		25	2								
2007	30.10	31.10	1.00					0.03	244	37	61	1.5		46	2								
2008	31.10	32.10	1.00					0.02	175	44	54	1.5		35	3								
2009	32.10	33.10	1.00					0.01	92	38	54	1.3		12	1								
2010	33.10	34.10	1.00					0.02	202	150	166	1.8		21	2								
2011	34.10	35.10	1.00					0.01	170	71	85	1.6		22	5								
2012	35.10	36.10	1.00					0.03	274	145	68	1.9		24	3								
2013	36.10	37.10	1.00					0.01	128	169	96	1.5		7	4								
2014	37.10	38.10	1.00					0.01	144	86	124	1.4		10	1								
2015	38.10	39.10	1.00					0.04	122	57	77	1.1		13	1								
2016	39.10	40.10	1.00					0.02	57	105	85	1.5		21	3								
2017	40.10	40.80	0.70					0.03	126	72	65	1.6		27	4								
2018	40.80	41.80	1.00					0.01	82	89	77	1.3		31	2								
2019	41.80	42.80	1.00					0.06	58	129	87	1.3		24	4								
2020	42.80	43.80	1.00					0.03	141	20	56	0.7		1	1								
2021	43.80	44.80	1.00					0.03	169	124	240	1.2		3	3								
2022	44.80	45.80	1.00					0.01	206	24	44	0.8		5	1								
2023	45.80	46.80	1.00					0.01	104	29	66	0.5		27	1								
2024	46.80	47.60	0.80					0.01	113	17	42	0.7		32	1								
2025	47.60	48.60	1.00					0.04	109	14	40	0.7		1	2								
2026	48.60	49.60	1.00					0.07	89	20	33	0.8		31	1								
2027	49.60	50.60	1.00					0.19	176	15	29	0.7		1	4								
2028	50.60	51.60	1.00					0.13	90	19	28	0.9		8	3								
2029	51.60	52.70	1.10					0.04	133	12	39	0.8		23	4								
2030	52.70	53.40	0.70					0.09	151	15	48	1.0		4	7								
2031	53.40	53.90	0.50					0.07	148	11	41	1.1		20	3								
2032	53.90	55.30	1.40					0.04	169	19	20	1.8		36	1								
2033	55.30	56.30	1.00					0.05	56	21	31	1.6		32	3								
2034	56.30	57.30	1.00					0.01	48	19	26	1.2		26	1								
2035	57.30	58.30	1.00					0.02	82	22	21	1.4		20	2								
2036	58.30	59.30	1.00					0.01	34	18	34	1.0		17	1								
2037	59.30	60.20	0.90					0.02	46	20	40	1.7		9	5								
2038	60.20	61.10	0.90					0.02	71	25	24	1.6		23	1								

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			
2039	61.10	62.00	0.90					0.03	373	19	20	1.6		24	1								
2040	62.00	63.00	1.00					0.01	92	24	20	1.1		19	1								
2041	63.00	64.20	1.20					0.01	68	22	13	1.5		30	1								
2042	64.20	65.00	0.80					0.04	87	21	38	1.0		1	3								
2043	65.00	66.00	1.00					0.02	112	27	50	1.2		35	6								
2044	66.00	67.30	1.30					0.01	78	20	52	0.6		18	4								
2045	67.30	68.20	0.90					0.02	48	18	21	1.4		21	2								
2046	68.20	69.20	1.00					0.02	68	19	26	1.2		12	2								
2047	69.20	70.20	1.00					0.01	61	18	46	1.0		38	8								
2048	70.20	71.20	1.00					0.01	233	20	37	1.0		27	3								
2049	71.20	72.20	1.00					0.05	226	27	47	1.5		1	5								
2050	72.20	73.20	1.00					0.01	75	28	67	0.5		23	7								
2051	73.20	74.20	1.00					0.01	153	18	56	1.2		33	6								
2052	74.20	75.00	0.80					0.01	120	31	64	0.5		34	5								
2053	75.00	76.20	1.20					0.02	58	34	105	0.3		20	9								
2054	76.20	77.20	1.00					0.04	231	32	87	0.6		12	9								
2055	77.20	78.40	1.20					0.03	226	29	73	0.5		28	7								
2056	78.40	79.40	1.00					0.06	221	30	74	0.6		17	8								
2057	79.40	80.50	1.10					0.10	190	32	112	2.0		11	7								
2058	80.50	81.50	1.00					0.08	46	23	18	1.4		26	1								
2059	81.50	82.50	1.00					0.02	20	19	85	1.1		24	1								
2060	82.50	83.50	1.00					0.05	29	15	18	1.2		24	1								
2061	83.50	84.50	1.00					0.06	60	18	9	0.9		13	1								
2062	84.50	85.50	1.00					0.02	66	19	8	1.2		28	1								
2063	85.50	86.50	1.00					0.01	93	19	8	1.1		12	1								
2064	86.50	87.50	1.00					0.01	113	19	8	1.2		29	1								
2065	87.50	88.50	1.00					0.02	186	20	14	1.0		17	2								
2066	88.50	89.50	1.00					0.05	110	19	7	1.2		27	1								
2067	89.50	90.50	1.00					0.02	109	16	8	1.3		26	1								
2068	90.50	91.50	1.00					0.03	144	15	8	1.0		20	1								
2069	91.50	92.50	1.00					0.04	179	16	8	1.2		28	1								
2070	92.50	93.50	1.00					0.02	254	15	10	1.0		12	1								
2071	93.50	94.50	1.00					0.17	118	20	13	1.1		21	1								
2072	94.30	95.30	1.00					0.02	683	26	47	1.7		1	6								
2073	95.30	96.30	1.00					0.05	499	28	31	1.0		1	7								
2074	96.30	97.40	1.10					0.01	462	25	28	1.3		9	5								
2075	97.40	98.50	1.10					0.01	256	30	46	1.0		19	5								
2076	98.50	99.50	1.00					0.07	28	29	74	0.8		24	7								

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
2077	99.50	100.50	1.00					0.02	18	28	64	0.7		11	4					
2078	100.50	101.50	1.00					0.01	89	40	61	0.7		22	4					
2079	101.50	102.50	1.00					0.08	48	36	83	0.7		21	6					
2080	102.50	103.50	1.00					0.01	16	38	66	0.7		17	3					
2081	103.50	104.10	0.60					0.07	107	32	35	1.1		4	2					
2082	104.10	105.00	0.90					0.01	121	22	36	1.1		1	2					
2083	105.00	106.00	1.00					0.10	673	14	12	1.6		26	2					
2084	106.00	107.00	1.00					0.02	517	17	12	1.6		30	2					
2085	107.00	107.70	0.70					0.05	193	31	31	1.9		26	8					
2086	107.70	108.60	0.90					0.04	210	24	16	1.1		15	3					
2087	108.60	109.60	1.00					0.02	179	21	20	0.8		12	3					
2088	109.60	110.50	0.90					0.03	197	20	19	1.0		12	2					
2089	110.50	111.40	0.90					0.02	144	20	27	1.0		1	3					
2090	111.40	112.40	1.00					0.04	304	15	34	1.3		28	8					
2091	112.40	112.90	0.50					0.04	207	13	35	1.3		22	2					
2092	112.90	113.80	0.90					0.01	140	20	14	0.8		11	1					
2093	113.80	114.80	1.00					0.02	84	20	11	1.0		17	1					
2094	114.80	115.80	1.00					0.05	76	18	9	0.9		19	1					
2095	115.80	116.60	0.80					0.02	116	16	13	1.1		10	1					
2096	116.60	117.60	1.00					0.05	36	17	23	0.6		7	1					
2097	117.60	118.60	1.00					0.01	33	18	8	1.3		26	1					
2098	118.60	119.60	1.00					0.02	61	20	14	1.3		21	2					
2099	119.60	120.60	1.00					0.01	109	20	12	1.2		17	1					
2100	120.60	121.60	1.00					0.01	122	17	21	1.1		1	2					
2101	121.60	122.20	0.60					0.01	223	18	18	1.0		1	2					
2102	122.20	123.10	0.90					0.03	96	23	87	0.5		1	10					
2103	123.10	124.10	1.00					0.10	106	13	35	1.0		17	3					
2104	124.10	125.10	1.00					0.12	96	13	46	0.8		6	5					
2105	125.10	126.10	1.00					0.17	497	10	66	0.5		44	8					
2106	126.10	127.10	1.00					0.02	114	17	66	0.5		60	7					
2107	127.10	128.10	1.00					0.01	91	14	55	0.4		52	6					
2108	128.10	129.10	1.00					0.02	138	17	48	0.4		58	6					
2109	129.10	129.80	0.70					0.03	326	11	43	0.7		1	7					
2110	129.80	130.80	1.00					0.08	146	18	60	0.9		63	8					
2111	130.80	131.90	1.10					0.01	49	12	29	1.2		25	2					
2112	131.90	132.90	1.00					0.01	51	12	34	0.9		21	2					
2113	132.90	133.90	1.00					0.03	47	14	27	1.0		12	1					
2114	133.90	134.90	1.00					0.01	49	20	25	1.4		11	4					
2115	134.90	135.90	1.00					0.01	157	20	27	1.4		1	2					



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
2116	135.90	136.90	1.00					0.01	120	69	1433	5.2		14	5					
2117	136.90	137.90	1.00					0.04	219	31	1091	4.0		29	1					
2118	137.90	138.90	1.00					0.01	255	19	132	1.2		27	1					
2119	138.90	139.90	1.00					0.03	166	14	47	1.2		27	1					
2120	139.90	141.10	1.20					0.03	95	16	40	1.1		24	3					
2121	141.10	142.10	1.00					0.04	689	11	65	0.5		44	1					
2122	142.10	143.10	1.00					0.01	310	22	60	0.9		25	1					
2123	143.10	144.00	0.90					0.03	83	13	139	1.0		6	3					
2124	144.00	144.90	0.90					0.01	49	12	51	0.8		1	1					
2125	144.90	145.90	1.00					0.02	104	14	37	1.3		6	2					
2126	145.90	146.90	1.00					0.02	65	14	38	1.0		1	2					
2127	146.90	147.90	1.00					0.01	332	11	62	0.9		38	2					
2128	147.90	148.90	1.00					0.04	76	10	60	0.3		20	2					
2129	148.90	149.90	1.00					0.02	109	12	54	1.2		1	4					
2130	149.90	150.90	1.00					0.04	56	17	59	1.1		21	3					
2131	150.90	151.80	0.90					0.03	373	21	75	1.0		18	1					
2132	151.80	152.80	1.00					0.25	80	430	1960	11.1		49	5					
2133	152.80	153.80	1.00					0.02	113	12	146	0.7		34	1					
2134	153.80	154.80	1.00					0.08	332	26	89	1.0		15	2					
2135	154.80	155.80	1.00					0.08	492	25	63	0.8		47	1					
2136	155.80	156.80	1.00					0.02	141	12	60	0.7		42	2					
2137	156.80	157.80	1.00					0.01	74	9	39	0.6		1	2					
2138	157.80	158.80	1.00					0.06	56	20	49	0.7		7	1					
2139	158.80	159.80	1.00					0.09	202	11	72	0.7		45	1					
2140	159.80	160.80	1.00					0.10	274	14	49	1.2		10	3					
2141	160.80	161.80	1.00					0.02	306	312	88	1.1		28	1					
2142	161.80	162.80	1.00					0.03	224	10	53	0.2		38	2					
2143	162.80	163.80	1.00					0.02	119	19	42	0.4		11	1					
2144	168.20	169.20	1.00					0.01	221	19	52	0.7		45	1					
2145	169.20	170.40	1.20					0.03	81	20	53	0.3		33	1					
2146	175.90	177.10	1.20					0.02	44	17	75	0.7		33	1					
2147	177.10	178.30	1.20					0.01	98	17	67	0.4		33	1					
2148	182.90	184.10	1.20					0.01	129	13	30	2.3		1	3					
2149	184.80	185.80	1.00					0.03	88	9	31	1.7		44	3					
2150	188.50	189.20	0.70					0.02	578	14	23	1.6		35	6					
2151	189.20	190.00	0.80					0.01	269	14	43	0.4		6	5					
2152	190.00	191.00	1.00					0.01	366	11	45	1.1		1	7					
2153	191.00	192.00	1.00					0.07	785	38	318	4.9		1	5					

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
2154	193.60	194.60	1.00					0.03	162	11	43	0.9		16	2					
2155	197.00	198.00	1.00					0.01	212	19	33	0.7		21	1					
2156	199.10	200.30	1.20					0.02	247	10	23	1.2		11	4					
2157	200.30	201.30	1.00					0.18	3147	18	26	3.4		19	7					
2158	201.30	202.10	0.80					0.01	921	8	20	1.7		15	8					
2159	202.10	203.10	1.00					0.01	54	17	18	0.6		7	3					
2160	203.10	204.10	1.00					0.02	27	15	17	0.9		7	2					
2161	204.10	204.90	0.80					0.01	46	14	14	0.9		1	2					
2162	204.90	205.80	0.90					0.01	7	14	28	0.6		1	3					
2163	209.10	210.10	1.00					0.01	47	10	23	1.1		32	4					
2164	210.10	211.10	1.00					0.01	59	17	22	1.0		21	4					
2165	214.90	215.90	1.00					0.86	5000	12	67	8.0		53	11					
2166	215.90	216.90	1.00					0.02	163	21	21	1.4		13	1					
2167	217.60	218.60	1.00					0.03	179	18	18	1.7		35	2					
2168	218.90	219.90	1.00					0.02	286	17	16	1.8		7	4					
2169	222.40	223.40	1.00					0.20	1571	14	24	2.9		8	4					
2170	223.40	224.60	1.20					0.20	2129	9	20	3.8		47	7					
2171	225.90	226.90	1.00					0.04	99	10	18	1.5		7	1					
2172	232.90	233.50	0.60					2.00	28850	81	271	30.8		39	30					
2173	233.70	234.70	1.00					1.63	14367	24	122	13.0		192	24					
2174	235.60	236.60	1.00					0.20	4829	16	40	6.6		25	8					
2175	244.10	245.10	1.00					0.02	1940	8	23	2.5		1	6					
2176	246.00	247.00	1.00					0.02	832	10	27	1.2		33	3					

Split  
rest of  
serp. &  
fault

HOLE NUMBER: TAM-88-03

MINNOVA INC.  
DRILL HOLE RECORD

IMPERIAL UNITS:

METRIC UNITS: X

PROJECT NAME: TAM O'SHANTER  
PROJECT NUMBER: 661  
CLAIM NUMBER: SHANTER  
LOCATION: GREENWOOD

PLOTTING COORDS GRID:  
NORTH: 610.00N  
EAST: 10.00E  
ELEV: 1252.00

ALTERNATE COORDS GRID:  
NORTH: 6+10N  
EAST: 0+10E  
ELEV: 1252.00

COLLAR DIP: -60° 0' 0"  
LENGTH OF THE HOLE: 258.20m  
START DEPTH: 0.00m  
FINAL DEPTH: 258.20m

COLLAR GRID AZIMUTH: 135° 0' 0"

COLLAR ASTRONOMIC AZIMUTH: 135° 0' 0"

DATE STARTED: December 16, 1988  
DATE COMPLETED: December 19, 1988  
DATE LOGGED: November 5, 1990

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

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

CONTRACTOR: BERGERON DRILLING  
CASING: 17.1m  
CORE STORAGE: BOUNDARY FALLS FARM

PURPOSE: To test the Bengal zone and IP anomaly south of the Bengal shaft.

DIRECTIONAL DATA:

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments	Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
258.20	-	-58° 0'	ACID	OK		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 17.10	«CASING»					
17.10 TO 90.00	«KETTLE RIV FM»	<p>17.1 - 30.0m Tuffac sst. Pale grey, fsp rich xtal tuff. Rare elongate lithic frags. Med grained. Local carbonaceous interbeds @ 80 deg to CA.</p> <p>30.0m Sharp contact @ 80 deg to CA.</p> <p>30.0 - 34.1m Xtal tuff. Grey-brown, fng, well dev fine bedding. Fine xtals (fsp and mafics as in above tuff) visible.</p> <p>34.1m sharp contact @ 80 deg to CA.</p> <p>34.1 - 54.3m Dark grey-black, finely bedded (80 deg) siltstone/argillaceous siltstone. From about 45 m downwards, becomes much less argillaceous, dom siltst, fine ash tuff.</p> <p>54.3m grad contact</p> <p>54.3 - 75m Coarse matrix supported conglom. 20-30% large, avg 2-3cm, clasts of dom a green fsp porph volc, in a med grained granular qtz-fsp mtrx.</p> <p>73.5 - 74.0m Orange brown fsp porph flow. 30% fsp, avg 2mm, show good alignment.</p> <p>75.0m grad change to finer (chert clast dom) conglom.</p> <p>75.0 - 90.0m Fine mtrx supported polymictic conglom. 25% clasts, avg 0.5cm, dom chert, lesser gst +... in med grained sandy mtrx (no good fsp xtals as in above conglom). Matrix grades down into fng, andesitic.</p>		<p>‡17.1 - 30.0‡m Mod-str clay alt. Fsp alt'd to clay + perv alt'n (v. str at top of interval). Minor qtz vnlts. «clay alt»</p> <p>‡18.8 - 22.15‡m Mod silic'n, local bx sections with black argil frags in grey qtz mtrx. «mod silic»</p> <p>54.3 - 65.4m Mod hem stn of mtrx.</p> <p>70.2 - 71.2m 5% late white vuggy qtz vns and bx zones.</p> <p>73.5 - 74.0m Mtrx strongly hem. Mod silic'n and qtz vnlts.</p> <p>75.0 - 90.0m Minor late qtz vns. Weak perv clay-chl alt'n.</p> <p>‡82.8 - 83.1‡m «Qtz bx» zone (at 82.2-82.8 zone is a 2-3cm white qtz vn @ 5 deg to CA). White xtalline qtz with 20% ang gst clast, avg &lt;1cm.</p>	<p>17.1 - 30.0m Minor py.</p> <p>54.3 - 65.4m Min py.</p> <p>‡70.2 - 71.2‡m 3% coarse diss py. «3% py»</p> <p>‡73.5 - 74.0‡m 5% diss py, coarse. «5% py»</p> <p>‡75.0 -90.0‡m 2% diss py. «2% py»</p>	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
90.00 TO 258.20	«KNOB HILL ANDES»	90.0 - 91.0m Strongly alt'd section of andesite at contact between flow and overlying conglom. 91.0 - 96.0m Fng, dark green andesite. Weak rem plag visible. 96.0 - 96.3m Dark green clay gouge. 96.3 - 100.2m Dark green, fng andesite as above. 100.2 - 105.3m Pale green, fng andes tuff. May be weakly cherty. More porous unit than above. 100.2m 5cm fault gouge 105.3 - 107.6m Dark green andes, as above. 107.6 - 111.0m Cherty andes tuff, pale-med green, aphanitic, locally grades to grey chert. 111.0m Grad contact 111.0 - 119.9m Dark green andes, as above. 119.9 - 125.5m Grey-green chert, minor andes tuff component. Grades downwards to increasing andes tuff. 125.5 - 139.0m Med green aphanitic cherty andes tuff, local chert interbeds. 139.0 - 147.5m Dark green, fng andes as above. 147.5m grad contact 147.5 - 156.7m Green-red brown andes tuff, sandy text, rem fsp visible, str alt'd, soft gougy like sections. 156.7 - 159.0m Pale grey, massive aphanitic chert Weakly rext. 158.8 - 159.0 Str bx		90.0 - 91.0m Str chl alt'n & late carb vnlts. 91.0 - 96.0m Mod perv chl. Min qtz and carb vnlts (dom 45 deg). 96.3 - 100.2m Mod perv chl alt'n. Min qtz and carb vnlts. Minor hem stain on frags. 100.2 - 105.3m Perv chl alt'n and late carb vnlts. Local qtz vning and silic'n. 103.0 - 105.3m Str silic, 30% open space grey qtz in silic'd tuff. «str silic» 105.3 - 107.6m Perv chl alt'n 107.6 - 111.0m Minor late qtz vnlts 111.0 - 119.9m perv chl alt'n 119.9 - 125.5m Minor rusty frags. 139.0 - 147.5m Perv chl alt'n. Mod late carb vnlts. 147.5 - 156.7m Str perv clay, hem alt'n. «clay, hem alt» 156.7 - 159.0m Minor late qtz vnlts.	91.0 - 96.0m 5% py, diss and vns. «5% py» 96.3 - 100.2m 2% py, diss and vns to 1 cm. «2% py» 100.2 - 105.3m 2% py «2% py» 105.3 - 107.6m Min py 107.6 - 111.0m Minor py 111.0 - 119.9m Minor py 119.9 - 125.5m 2 - 5% py «2-5% py» 139.0 - 147.5m Min diss py.	96.0 - 96.3m «Fault zone» 158.8 - 159.2m «Fault zone»

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
		159.0 - 167.5m Fng, pale green, sandy text, andes tuff.		159.0 - 167.5m Perv chl, local silic'n Minor qtz and carb vnlts. Late frac filled with blue-green soapy clay (talc ??).		
		159.0 - 159.2m green gouge				
		167.5 - 171.6m Dark grey-green chery-cherty andes tuff.			167.5 - 171.6m min py	
		171.6 - 173.2m Dark green ades				
		173.2 - 176.6m Green-brown, soft, highly alt'd andes and fault gouge.				‡173.2 - 176.6m «Fault zone».
		176.6 - 258.2m Massive, dark green andesite, generally fng. Locally grades to slightly coarser grained, with fsp xtals visible. Interbedded with pale green aphanitic cherty tuff and minor chert beds.		176.6 - 258.2m Min perv chl. Mod late carb vnlts. Local white calcite vns and bx zones to 5 cm.	176.6 - 258.2m Minor py	235.2 Pillow structures (avg 10-20 cm) in core
		END OF HOLE.				

Sample	From (m)	To (m)	Length (m)	COMMENTS

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	
3001	20.00	21.00	1.00					0.02	15	16	22	1.3		31	1							
3002	22.60	23.60	1.00					0.04	15	30	80	1.1		34	2							
3003	27.50	28.50	1.00					0.01	14	22	33	1.1		42	1							
3004	37.80	39.00	1.20					0.03	10	51	104	0.4		44	6							
3005	48.60	49.60	1.00					0.10	14	43	74	0.7		34	1							
3006	53.60	54.60	1.00					0.05	20	47	40	1.0		26	1							
3007	54.60	55.60	1.00					0.02	31	25	36	1.1		26	2							
3008	55.60	56.60	1.00					0.01	71	21	40	0.9		14	1							
3009	56.60	57.60	1.00					0.01	119	16	41	1.0		10	2							
3010	57.60	58.60	1.00					0.01	227	12	42	1.7		43	1							
3011	58.60	59.60	1.00					0.02	179	12	50	1.3		22	2							
3012	59.60	60.60	1.00					0.01	205	18	50	0.7		24	3							
3013	60.60	61.60	1.00					0.02	159	13	47	1.3		21	3							
3014	61.60	62.60	1.00					0.04	199	14	45	1.4		24	2							
3015	62.60	63.60	1.00					0.02	103	20	65	1.3		25	2							
3016	63.60	64.60	1.00					0.01	34	22	40	1.2		29	1							
3017	64.60	65.60	1.00					0.01	42	30	51	0.8		15	3							
3018	65.60	66.60	1.00					0.01	32	28	51	0.7		18	2							
3019	66.60	67.60	1.00					0.02	36	23	60	0.5		7	5							
3020	67.60	69.10	1.50					0.03	60	26	54	1.0		19	3							
3021	69.10	70.10	1.00					0.02	70	17	59	1.0		14	1							
3022	70.10	71.10	1.00					0.04	33	18	47	0.7		13	4							
3023	71.10	72.10	1.00					0.01	118	23	67	0.8		1	5							
3024	72.10	73.30	1.20					0.01	50	19	63	0.5		18	4							
3025	73.30	74.10	0.80					0.02	27	18	40	0.7		10	2							
3026	74.10	75.40	1.30					0.01	117	21	61	0.9		1	7							
3027	75.40	76.40	1.00					0.01	649	46	56	2.5		20	5							
3028	76.40	77.20	0.80					0.01	352	41	60	1.3		9	3							
3029	77.20	78.30	1.10					0.04	400	47	95	1.4		6	2							
3030	78.30	79.30	1.00					0.01	748	28	109	2.2		19	4							
3031	79.30	80.30	1.00					0.04	144	33	53	1.6		10	1							
3032	80.30	81.50	1.20					0.02	70	20	43	1.1		10	3							
3033	81.50	82.50	1.00					0.01	58	58	61	1.2		4	1							
3034	82.50	83.50	1.00					0.01	38	18	22	0.7		25	1							
3035	83.50	84.50	1.00					0.02	60	31	33	1.5		19	2							
3036	84.50	85.50	1.00					0.08	70	20	31	0.9		3	1							
3037	85.50	86.60	1.10					0.01	55	28	29	1.1		4	1							
3038	86.60	87.60	1.00					0.01	147	17	31	1.0		1	1							



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			
3039	87.60	88.60	1.00					0.02	79	19	27	1.0		20	2								
3040	88.60	89.40	0.80					0.01	117	18	32	0.8		3	1								
3041	89.40	90.00	0.60					0.01	97	17	35	1.2		33	4								
3042	90.00	91.00	1.00					0.06	369	10	63	0.5		48	4								
3043	91.00	92.00	1.00					0.05	474	10	79	1.0		20	3								
3044	92.00	93.00	1.00					0.07	156	15	65	0.8		20	5								
3045	93.00	94.00	1.00					0.03	128	14	61	0.5		12	4								
3046	94.00	95.00	1.00					0.05	150	13	60	0.6		8	4								
3047	95.00	96.00	1.00					0.02	64	12	58	0.5		9	5								
3048	96.00	97.00	1.00					0.04	76	23	59	0.4		1	6								
3049	97.00	98.00	1.00					0.02	79	28	71	0.3		5	3								
3050	98.00	99.00	1.00					0.05	208	22	80	0.7		46	5								
3051	99.00	100.00	1.00					0.01	117	18	72	1.4		3	5								
3052	100.00	101.00	1.00					0.02	185	19	77	1.0		10	5								
3053	101.00	102.00	1.00					0.01	141	24	78	0.7		23	6								
3054	102.00	103.00	1.00					0.05	282	23	65	0.9		31	5								
3055	103.00	104.00	1.00					0.01	93	25	39	0.9		19	3								
3056	104.00	105.10	1.10					0.02	25	23	24	1.2		23	2								
3057	105.10	106.10	1.00					0.07	41	33	40	0.4		8	3								
3058	106.10	106.80	0.70					0.02	104	20	27	1.0		17	3								
3059	106.80	107.40	0.60					0.01	132	17	29	1.2		11	1								
3060	107.40	108.40	1.00					0.01	70	19	14	1.1		29	1								
3061	108.40	109.40	1.00					0.02	54	18	14	1.0		29	1								
3062	109.40	110.40	1.00					0.01	11	16	20	0.8		18	1								
3063	110.40	111.40	1.00					0.07	56	17	20	0.9		7	1								
3064	111.40	112.20	0.80					0.08	42	13	22	1.0		16	1								
3065	112.20	113.00	0.80					0.02	54	17	23	0.8		13	1								
3066	113.00	114.00	1.00					0.10	37	17	22	0.8		24	1								
3067	114.00	115.00	1.00					0.06	37	31	53	0.9		13	2								
3068	115.00	116.00	1.00					0.02	75	17	27	0.8		16	1								
3069	116.00	117.00	1.00					0.01	102	18	23	1.0		13	1								
3070	117.00	118.00	1.00					0.03	156	20	22	1.1		11	1								
3071	118.00	119.10	1.10					0.01	32	15	31	0.7		7	2								
3072	119.10	119.80	0.70					0.01	82	14	47	0.5		42	2								
3073	119.80	120.80	1.00					0.02	639	23	18	1.9		26	1								
3074	120.80	121.80	1.00					0.06	61	18	28	0.7		17	1								
3075	121.80	122.40	0.60					0.05	567	21	30	1.7		23	3								
3076	122.40	123.40	1.00					0.01	119	18	40	0.8		36	3								

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
3077	123.40	124.40	1.00					0.02	66	24	34	0.8		17	2					
3078	124.40	125.40	1.00					0.03	93	17	31	0.6		10	3					
3079	125.40	126.40	1.00					0.04	59	15	37	0.7		1	1					
3080	126.40	127.40	1.00					0.01	73	13	25	0.6		16	1					
3081	127.40	128.40	1.00					0.02	74	20	53	0.4		33	5					
3082	128.40	129.40	1.00					0.01	49	16	69	0.4		42	5					
3083	129.40	130.40	1.00					0.01	107	10	35	0.8		11	2					
3084	130.40	131.40	1.00					0.05	163	15	26	1.2		12	1					
3085	131.40	132.40	1.00					0.04	71	10	25	0.6		10	1					
3086	132.40	133.40	1.00					0.02	55	16	32	0.6		1	1					
3087	133.40	134.40	1.00					0.06	79	15	77	0.5		6	6					
3088	134.40	135.40	1.00					0.10	109	20	87	0.5		12	4					
3089	135.40	136.40	1.00					0.05	337	24	51	1.5		7	5					
3090	136.40	137.40	1.00					0.01	66	13	45	0.8		35	2					
3091	137.40	138.40	1.00					0.02	34	17	40	0.4		22	3					
3092	138.40	139.40	1.00					0.01	168	16	61	0.5		2	4					
3093	139.40	140.40	1.00					0.01	119	18	70	0.5		10	1					
3094	140.40	141.40	1.00					0.01	65	13	47	0.5		37	4					
3095	141.40	142.40	1.00					0.01	30	8	73	0.7		9	3					
3096	142.40	143.40	1.00					0.01	267	55	92	0.9		1	7					
3097	143.40	144.50	1.10					0.02	205	23	80	0.5		68	3					
3098	144.50	145.50	1.00					0.01	346	16	67	1.0		3	3					
3099	145.50	146.50	1.00					0.02	240	20	62	1.2		22	5					
3100	146.50	147.50	1.00					0.01	73	20	65	0.6		6	3					
3101	147.50	148.50	1.00					0.02	176	11	63	0.5		1	3					
3102	148.50	149.20	0.70					0.01	229	22	53	0.6		13	2					
3103	150.90	151.90	1.00					0.01	112	25	84	0.3		41	5					
3104	152.30	153.30	1.00					0.01	369	19	70	0.9		47	8					
3105	153.60	154.60	1.00					0.01	211	24	73	0.6		38	5					
3106	154.60	155.30	0.70					0.01	281	25	38	1.2		11	3					
3107	155.30	156.50	1.20					0.03	223	19	19	1.3		36	1					
3108	156.50	157.50	1.00					0.01	1022	21	24	2.7		39	1					
3109	157.50	158.80	1.30					0.02	447	37	36	1.5		27	1					
3110	158.80	160.10	1.30					0.19	117	21	56	0.8		38	3					
3111	160.10	161.10	1.00					0.03	37	27	67	0.5		29	3					
3112	165.80	166.40	0.60					0.01	166	26	33	1.1		12	2					
3113	167.60	168.60	1.00					0.01	88	25	17	0.9		37	1					
3114	168.60	169.60	1.00					0.02	197	26	39	1.0		22	4					
3115	169.60	170.60	1.00					1.31	212	18	34	1.8		28	2					

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			
3116	170.60	171.60	1.00					0.02	181	15	28	0.8		17	1								
3117	175.00	176.00	1.00					0.03	197	18	61	0.5		24	7								
3118	176.00	176.60	0.60					0.01	89	16	11	0.5		1	1								
3119	179.30	180.30	1.00					0.01	242	25	49	0.1		20	4								
3120	181.00	182.00	1.00					0.01	439	18	25	0.9		1	3								
3121	182.00	183.00	1.00					0.02	419	10	25	0.7		1	3								
3122	187.60	188.60	1.00					0.01	197	18	28	1.0		37	2								
3123	190.80	191.80	1.00					0.04	2828	18	43	4.2		30	5								
3124	192.10	193.10	1.00					0.01	416	9	33	0.8		27	1								
3125	196.40	197.40	1.00					0.01	525	14	43	0.5		20	4								
3126	199.40	200.40	1.00					0.01	258	16	32	0.8		25	1								
3127	202.40	203.40	1.00					0.02	495	21	43	1.1		16	44								
3128	203.90	204.90	1.00					0.01	660	19	34	1.5		1	4								
3129	209.20	210.20	1.00					0.02	400	11	40	0.5		28	1								
3130	213.60	214.60	1.00					0.01	90	11	60	2.2		25	3								
3131	215.30	216.30	1.00					0.01	113	19	21	0.7		13	1								
3132	216.30	217.30	1.00					0.01	45	17	11	1.7		42	1								
3133	219.30	220.30	1.00					0.02	331	19	41	0.5		4	2								
3134	220.30	223.00	2.70					0.03	102	22	25	0.9		1	1								
3135	226.50	227.70	1.20					0.01	326	20	37	1.2		23	4								
3136	230.90	232.00	1.10					0.01	93	17	38	1.3		21	2								
3137	233.90	235.00	1.10					0.02	240	18	50	2.6		39	6								
3138	239.90	240.90	1.00					0.03	262	23	50	4.1		27	6								
3139	242.80	243.30	1.10					0.03	386	20	38	1.8		1	6								
3140	246.80	247.90	1.10					0.01	30	8	60	0.7		18	8								
3141	248.10	249.10	1.00					0.04	110	12	45	0.5		40	5								
3142	252.20	253.20	1.00					0.02	145	10	36	1.6		34	3								