APPENDIX III: DRILLHOLE DOWNHOLE SURVEYS

KETZA RIVER PROJECT KON CLAIMS 26-May-12
YUKON, CANADA DOWN HOLE SURVEYS

HOLE ID	PROJECT CODE	DEPTH	DIP	AZIMUTH	SURVTYPE
KR-11-1572	KETZA	0	-84	165.1	Maxibor 2
KR-11-1572	KETZA	3	-84	165	Maxibor 2
KR-11-1572	KETZA	6	-84	165.2	Maxibor 2
KR-11-1572	KETZA	9	-83.9	165.5	Maxibor 2
KR-11-1572	KETZA	12	-84	165	Maxibor 2
KR-11-1572	KETZA	15	-84	164.7	Maxibor 2
KR-11-1572	KETZA	18	-84	164.8	Maxibor 2
KR-11-1572	KETZA	21	-84.4	164.8	Maxibor 2
KR-11-1572	KETZA	24	-84.4	164.5	Maxibor 2
KR-11-1572	KETZA	27	-84	164.4	Maxibor 2
KR-11-1572	KETZA	30	-85.5	165.1	Maxibor 2
KR-11-1572	KETZA	33	-84.3	165.6	Maxibor 2
KR-11-1572	KETZA	36	-84.3	165.4	Maxibor 2
KR-11-1572	KETZA	39	-84.4	165.2	Maxibor 2
KR-11-1572	KETZA	42	-84.6	164.9	Maxibor 2
KR-11-1572	KETZA	45	-84.6	163.8	Maxibor 2
KR-11-1572	KETZA	48	-84.7	162.8	Maxibor 2
KR-11-1572	KETZA	51	-84.7	162	Maxibor 2
KR-11-1572	KETZA	54	-84.9	161.5	Maxibor 2
KR-11-1572	KETZA	57	-85	160.6	Maxibor 2
KR-11-1572	KETZA	60	-85.1	159.4	Maxibor 2
KR-11-1572	KETZA	63	-84.8	158.6	Maxibor 2
KR-11-1572	KETZA	66	-84.9	157.8	Maxibor 2
KR-11-1572	KETZA	69	-84.9	156.3	Maxibor 2
KR-11-1572	KETZA	72	-85	154.7	Maxibor 2
KR-11-1572	KETZA	75	-85	153.2	Maxibor 2
KR-11-1572	KETZA	78	-85.1	151.9	Maxibor 2
KR-11-1572	KETZA	81	-85.2	150.7	Maxibor 2
KR-11-1572	KETZA	84	-85.2	149	Maxibor 2
KR-11-1572	KETZA	87	-85	147.4	Maxibor 2
KR-11-1572	KETZA	90	-85.3	146.4	Maxibor 2
KR-11-1572	KETZA	93	-85.4	144.9	Maxibor 2
KR-11-1572	KETZA	96	-85.6	143.5	Maxibor 2
KR-11-1572	KETZA	99	-85.7	142.9	Maxibor 2
KR-11-1572	KETZA	102	-85.6	141.6	Maxibor 2
KR-11-1572	KETZA	105	-85.7	140.6	Maxibor 2
KR-11-1572	KETZA	108	-85.6	139.7	Maxibor 2
KR-11-1572	KETZA	111	-85.6	138.9	Maxibor 2
KR-11-1572	KETZA	114	-85.6	138	Maxibor 2
KR-11-1572	KETZA	117	-85.9	137.5	Maxibor 2
KR-11-1572	KETZA	120	-86	137.3	Maxibor 2
KR-11-1572	KETZA	123	-86	136	Maxibor 2
KR-11-1572	KETZA	126	-85.8	134.8	Maxibor 2
KR-11-1572	KETZA	129	-86.1	134.2	Maxibor 2
KR-11-1572	KETZA	132	-86	134.6	Maxibor 2
KR-11-1572	KETZA	135	-85.7	135.2	Maxibor 2
KR-11-1572	KETZA	138	-85.9	135.5	Maxibor 2
KR-11-1572	KETZA	141	-85.9	135.1	Maxibor 2

KETZA RIVER PROJECT KON CLAIMS 26-May-12
YUKON, CANADA DOWN HOLE SURVEYS

HOLE ID	PROJECT CODE	DEPTH	DIP	AZIMUTH	SURVTYPE
KR-11-1572	KETZA	144	-86.2	134.8	Maxibor 2
KR-11-1572	KETZA	147	-85.9	134.3	Maxibor 2
KR-11-1572	KETZA	150	-86.1	134.8	Maxibor 2
KR-11-1572	KETZA	153	-85.8	135.1	Maxibor 2
KR-11-1572	KETZA	156	-86	135.4	Maxibor 2
KR-11-1572	KETZA	159	-86.2	135.9	Maxibor 2
KR-11-1572	KETZA	162	-85.9	135.9	Maxibor 2
KR-11-1572	KETZA	165	-85.9	135.8	Maxibor 2
KR-11-1572	KETZA	168	-86.1	136.3	Maxibor 2
KR-11-1572	KETZA	171	-86.2	136.5	Maxibor 2
KR-11-1572	KETZA	174	-86.2	136.7	Maxibor 2
KR-11-1572	KETZA	177	-85.9	136.5	Maxibor 2
KR-11-1572	KETZA	180	-86.3	136.3	Maxibor 2
KR-11-1572	KETZA	183	-86.2	135.5	Maxibor 2
KR-11-1572	KETZA	186	-85.8	135.2	Maxibor 2
KR-11-1572	KETZA	189	-86	135.2	Maxibor 2
KR-11-1572	KETZA	192	-86.4	135.3	Maxibor 2
KR-11-1572	KETZA	195	-87.8	134.6	Maxibor 2
KR-11-1572	KETZA	198	-86.6	134.1	Maxibor 2
KR-11-1572	KETZA	201	-86.7	134.3	Maxibor 2
KR-11-1572	KETZA	204	-86.2	134.6	Maxibor 2
KR-11-1572	KETZA	207	-86.2	134.1	Maxibor 2
KR-11-1572	KETZA	210	-86.2	133.7	Maxibor 2
KR-11-1572	KETZA	213	-86.3	133.2	Maxibor 2
KR-11-1572	KETZA	216	-86.3	133	Maxibor 2
KR-11-1572	KETZA	219	-86.3	133.4	Maxibor 2
KR-11-1572	KETZA	225	-86.3	134.2	Maxibor 2
KR-11-1572	KETZA	233.78	-86.3	134.2	Maxibor 2
KR-11-1573	KETZA	0	-83.5	172.5	Maxibor 2
KR-11-1573	KETZA	3	-83.6	172.4	Maxibor 2
KR-11-1573	KETZA	6	-83.6	172.6	Maxibor 2
KR-11-1573	KETZA	9	-83.5	172.9	Maxibor 2
KR-11-1573	KETZA	12	-83.6	173.6	Maxibor 2
KR-11-1573	KETZA	15	-83.6	174.1	Maxibor 2
KR-11-1573	KETZA	18	-83.5	174.6	Maxibor 2
KR-11-1573	KETZA	21	-83.7	175.1	Maxibor 2
KR-11-1573	KETZA	24	-84	175.6	Maxibor 2
KR-11-1573	KETZA	27	-84	176	Maxibor 2
KR-11-1573	KETZA	30	-83.9	176.2	Maxibor 2
KR-11-1573	KETZA	33	-83.9	176.7	Maxibor 2
KR-11-1573	KETZA	36	-84	177.1	Maxibor 2
KR-11-1573	KETZA	39	-84	177.4	Maxibor 2
KR-11-1573	KETZA	42	-84	177.7	Maxibor 2
KR-11-1573	KETZA	45	-84.2	177.9	Maxibor 2
KR-11-1573	KETZA	48	-80.5	178.5	Maxibor 2
KR-11-1573	KETZA	51	-84	178.7	Maxibor 2
KR-11-1573	KETZA	54	-84	179.3	Maxibor 2
KR-11-1573	KETZA	57	-83.9	179.6	Maxibor 2

KETZA RIVER PROJECT KON CLAIMS 26-May-12
YUKON, CANADA DOWN HOLE SURVEYS

HOLE ID	PROJECT CODE	DEPTH	DIP	AZIMUTH	SURVTYPE
KR-11-1573	KETZA	60	-84	180.1	Maxibor 2
KR-11-1573	KETZA	63	-84	180.6	Maxibor 2
KR-11-1573	KETZA	66	-84	181	Maxibor 2
KR-11-1573	KETZA	69	-84	181.4	Maxibor 2
KR-11-1573	KETZA	72	-84	181.7	Maxibor 2
KR-11-1573	KETZA	75	-84.1	182.1	Maxibor 2
KR-11-1573	KETZA	78	-84.1	182.6	Maxibor 2
KR-11-1573	KETZA	81	-84.1	183.1	Maxibor 2
KR-11-1573	KETZA	84	-84.2	183.5	Maxibor 2
KR-11-1573	KETZA	87	-84.2	183.9	Maxibor 2
KR-11-1573	KETZA	90	-84.2	184.3	Maxibor 2
KR-11-1573	KETZA	93	-84.2	184.9	Maxibor 2
KR-11-1573	KETZA	96	-84.2	185.5	Maxibor 2
KR-11-1573	KETZA	99	-84.3	186	Maxibor 2
KR-11-1573	KETZA	102	-84.3	186.5	Maxibor 2
KR-11-1573	KETZA	105	-84.3	186.9	Maxibor 2
KR-11-1573	KETZA	108	-84.3	187.3	Maxibor 2
KR-11-1573	KETZA	111	-84.4	187.7	Maxibor 2
KR-11-1573	KETZA	114	-84.4	188.2	Maxibor 2
KR-11-1573	KETZA	117	-84.5	188.8	Maxibor 2
KR-11-1573	KETZA	120	-84.5	189.3	Maxibor 2
KR-11-1573	KETZA	123	-84.5	189.8	Maxibor 2
KR-11-1573	KETZA	126	-84.5	190.4	Maxibor 2
KR-11-1573	KETZA	129	-84.6	191.2	Maxibor 2
KR-11-1573	KETZA	132	-84.5	191.6	Maxibor 2
KR-11-1573	KETZA	135	-84.6	192.1	Maxibor 2
KR-11-1573	KETZA	138	-84.6	192.6	Maxibor 2
KR-11-1573	KETZA	141	-84.6	193	Maxibor 2
KR-11-1573	KETZA	144	-84.6	193.5	Maxibor 2
KR-11-1573	KETZA	147	-84.5	194	Maxibor 2
KR-11-1573	KETZA	150	-84.6	194.5	Maxibor 2
KR-11-1573	KETZA	153	-84.6	194.7	Maxibor 2
KR-11-1573	KETZA	156	-84.7	195.1	Maxibor 2
KR-11-1573	KETZA	159	-84.7	195.5	Maxibor 2
KR-11-1573	KETZA	162	-84.7	195.9	Maxibor 2
KR-11-1573	KETZA	165	-84.7	196.1	Maxibor 2
KR-11-1573	KETZA	168	-84.8	196.3	Maxibor 2
KR-11-1573	KETZA	171	-84.8	196.7	Maxibor 2
KR-11-1573	KETZA	174	-84.8	197.2	Maxibor 2
KR-11-1573	KETZA	177	-84.8	197.8	Maxibor 2
KR-11-1573	KETZA	180	-84.3	198.4	Maxibor 2
KR-11-1573	KETZA	183	-83	198.9	Maxibor 2
KR-11-1573	KETZA	186	-85.3	199.1	Maxibor 2
KR-11-1573	KETZA	189	-85.6	199	Maxibor 2
KR-11-1573	KETZA	192	-85	199.1	Maxibor 2
KR-11-1573	KETZA	195	-85.1	199.7	Maxibor 2
KR-11-1573	KETZA	198	-85.1	200.1	Maxibor 2
KR-11-1573	KETZA	201	-85.1	200.5	Maxibor 2

HOLE ID	PROJECT CODE	DEPTH	DIP	AZIMUTH	SURVTYPE
KR-11-1573	KETZA	204	-85.2	201.2	Maxibor 2
KR-11-1573	KETZA	207	-85.2	201.7	Maxibor 2
KR-11-1573	KETZA	210	-85.5	202.1	Maxibor 2
KR-11-1573	KETZA	213	-85.8	201.9	Maxibor 2
KR-11-1573	KETZA	216	-85.7	201.6	Maxibor 2
KR-11-1573	KETZA	219	-85.3	201.6	Maxibor 2
KR-11-1573	KETZA	222	-85.4	202.3	Maxibor 2
KR-11-1573	KETZA	225	-85.6	202.9	Maxibor 2
KR-11-1573	KETZA	228	-85.4	203.4	Maxibor 2
KR-11-1573	KETZA	231	-85.9	203.2	Maxibor 2
KR-11-1573	KETZA	234	-85.4	203.2	Maxibor 2
KR-11-1573	KETZA	237	-85.6	203.9	Maxibor 2
KR-11-1573	KETZA	240	-85.5	204.2	Maxibor 2
KR-11-1573	KETZA	243	-85.4	204.4	Maxibor 2
KR-11-1573	KETZA	246	-85.9	204.9	Maxibor 2
KR-11-1573	KETZA	249	-85.9	205	Maxibor 2
KR-11-1573	KETZA	252	-85.4	204.7	Maxibor 2
KR-11-1573	KETZA	255	-85.9	204.8	Maxibor 2
KR-11-1573	KETZA	258	-85.9	204.6	Maxibor 2
KR-11-1573	KETZA	261	-85.8	204.6	Maxibor 2
KR-11-1573	KETZA	264	-85.4	204.7	Maxibor 2
KR-11-1573	KETZA	267	-85.5	205	Maxibor 2
KR-11-1573	KETZA	270	-85.8	206.3	Maxibor 2
KR-11-1573	KETZA	273	-85.8	209.2	Maxibor 2
KR-11-1573	KETZA	279	-85.8	208.9	Maxibor 2
KR-11-1573	KETZA	291.61	-85.8	208.9	Maxibor 2
KR-11-1574	KETZA	0	-83.7	175.9	Maxibor 2
KR-11-1574	KETZA	3	-83.9	178.1	Maxibor 2
KR-11-1574	KETZA	6	-84	178.5	Maxibor 2
KR-11-1574	KETZA	9	-84	178.4	Maxibor 2
KR-11-1574	KETZA	12	-84	178.1	Maxibor 2
KR-11-1574	KETZA	15	-84.2	178.1	Maxibor 2
KR-11-1574	KETZA	18	-84.1	178.6	Maxibor 2
KR-11-1574	KETZA	21	-83.9	178.9	Maxibor 2
KR-11-1574	KETZA	24	-84.3	179.1	Maxibor 2
KR-11-1574	KETZA	27	-84.4	179.4	Maxibor 2
KR-11-1574	KETZA	30	-84.5	180.1	Maxibor 2
KR-11-1574	KETZA	33	-84.4	180.4	Maxibor 2
KR-11-1574	KETZA	36	-84.4	181.3	Maxibor 2
KR-11-1574	KETZA	39	-84.7	181.7	Maxibor 2
KR-11-1574	KETZA	42	-84.6	182.2	Maxibor 2
KR-11-1574	KETZA	45	-84.7	182.7	Maxibor 2
KR-11-1574	KETZA	48	-84.8	183.2	Maxibor 2
KR-11-1574	KETZA	51	-84.8	184	Maxibor 2
KR-11-1574	KETZA	54	-84.6	184.7	Maxibor 2
KR-11-1574	KETZA	57	-84.6	185.2	Maxibor 2
KR-11-1574	KETZA	60	-84.7	185.4	Maxibor 2
KR-11-1574	KETZA	63	-84.8	185.8	Maxibor 2

KETZA RIVER PROJECT KON CLAIMS 26-May-12
YUKON, CANADA DOWN HOLE SURVEYS

HOLE ID	PROJECT CODE	DEPTH	DIP	AZIMUTH	SURVTYPE
KR-11-1574	KETZA	66	-84.9	186.2	Maxibor 2
KR-11-1574	KETZA	69	-84.9	186.6	Maxibor 2
KR-11-1574	KETZA	72	-84.9	187	Maxibor 2
KR-11-1574	KETZA	75	-84.9	187.5	Maxibor 2
KR-11-1574	KETZA	78	-85	187.6	Maxibor 2
KR-11-1574	KETZA	81	-85	187.8	Maxibor 2
KR-11-1574	KETZA	84	-85.1	188	Maxibor 2
KR-11-1574	KETZA	87	-85.2	188.1	Maxibor 2
KR-11-1574	KETZA	90	-85.2	188.1	Maxibor 2
KR-11-1574	KETZA	93	-85.5	188.3	Maxibor 2
KR-11-1574	KETZA	96	-85.6	188.4	Maxibor 2
KR-11-1574	KETZA	99	-85.4	188.5	Maxibor 2
KR-11-1574	KETZA	102	-85.4	188.8	Maxibor 2
KR-11-1574	KETZA	105	-85.6	189.5	Maxibor 2
KR-11-1574	KETZA	108	-85.5	190.1	Maxibor 2
KR-11-1574	KETZA	111	-85.6	190.3	Maxibor 2
KR-11-1574	KETZA	114	-85.9	190.7	Maxibor 2
KR-11-1574	KETZA	117	-85.7	191.2	Maxibor 2
KR-11-1574	KETZA	120	-85.8	191.6	Maxibor 2
KR-11-1574	KETZA	123	-86	192.1	Maxibor 2
KR-11-1574	KETZA	126	-85.9	192.7	Maxibor 2
KR-11-1574	KETZA	129	-86.2	193.2	Maxibor 2
KR-11-1574	KETZA	132	-86.2	193.3	Maxibor 2
KR-11-1574	KETZA	135	-86.4	193.3	Maxibor 2
KR-11-1574	KETZA	138	-83.5	193.6	Maxibor 2
KR-11-1574	KETZA	141	-86.4	193.7	Maxibor 2
KR-11-1574	KETZA	144	-86.5	193.4	Maxibor 2
KR-11-1574	KETZA	147	-86.2	193.1	Maxibor 2
KR-11-1574	KETZA	150	-86.3	192.9	Maxibor 2
KR-11-1574	KETZA	153	-86.4	193.1	Maxibor 2
KR-11-1574	KETZA	156	-86.7	193.2	Maxibor 2
KR-11-1574	KETZA	159	-86.6	193.7	Maxibor 2
KR-11-1574	KETZA	162	-86.7	193.8	Maxibor 2
KR-11-1574	KETZA	165	-86.7	194.4	Maxibor 2
KR-11-1574	KETZA	168	-86.6	195.1	Maxibor 2
KR-11-1574	KETZA	171	-86.9	195	Maxibor 2
KR-11-1574	KETZA	174	-87	194.6	Maxibor 2
KR-11-1574	KETZA	177	-86.7	195.1	Maxibor 2
KR-11-1574	KETZA	180	-86.9	195	Maxibor 2
KR-11-1574	KETZA	183	-86.7	195.2	Maxibor 2
KR-11-1574	KETZA	189	-86.7	194.8	Maxibor 2
KR-11-1574	KETZA	212.45	-86.7	194.8	Maxibor 2
KR-11-1575	KETZA	0	-84	259.2	Maxibor 2
KR-11-1575	KETZA	3	-82.8	262.9	Maxibor 2
KR-11-1575	KETZA	6	-83	265.5	Maxibor 2
KR-11-1575	KETZA	9	-83.3	266.1	Maxibor 2
KR-11-1575	KETZA	12	-83.4	266.7	Maxibor 2
KR-11-1575	KETZA	15	-83.4	267.2	Maxibor 2

KETZA RIVER PROJECT KON CLAIMS 26-May-12
YUKON, CANADA DOWN HOLE SURVEYS

HOLE ID	PROJECT CODE	DEPTH	DIP	AZIMUTH	SURVTYPE
KR-11-1575	KETZA	18	-83.7	267.6	Maxibor 2
KR-11-1575	KETZA	21	-83.8	267.5	Maxibor 2
KR-11-1575	KETZA	24	-83.6	267.4	Maxibor 2
KR-11-1575	KETZA	27	-83.7	267.8	Maxibor 2
KR-11-1575	KETZA	30	-83.6	268.2	Maxibor 2
KR-11-1575	KETZA	33	-83.4	268.8	Maxibor 2
KR-11-1575	KETZA	36	-83.5	269.2	Maxibor 2
KR-11-1575	KETZA	39	-83.4	269.6	Maxibor 2
KR-11-1575	KETZA	42	-83.4	270.3	Maxibor 2
KR-11-1575	KETZA	45	-83.5	270.9	Maxibor 2
KR-11-1575	KETZA	48	-83.5	271.5	Maxibor 2
KR-11-1575	KETZA	51	-83.5	272.3	Maxibor 2
KR-11-1575	KETZA	54	-83.4	273	Maxibor 2
KR-11-1575	KETZA	57	-83.5	273.6	Maxibor 2
KR-11-1575	KETZA	60	-83.5	274.3	Maxibor 2
KR-11-1575	KETZA	63	-83.5	274.9	Maxibor 2
KR-11-1575	KETZA	66	-83.6	275.4	Maxibor 2
KR-11-1575	KETZA	69	-83.4	276	Maxibor 2
KR-11-1575	KETZA	72	-83.5	276.5	Maxibor 2
KR-11-1575	KETZA	75	-83.7	276.9	Maxibor 2
KR-11-1575	KETZA	78	-83.8	277.1	Maxibor 2
KR-11-1575	KETZA	81	-83.7	276.9	Maxibor 2
KR-11-1575	KETZA	84	-83.8	277	Maxibor 2
KR-11-1575	KETZA	87	-83.7	277.2	Maxibor 2
KR-11-1575	KETZA	90	-83.7	277.8	Maxibor 2
KR-11-1575	KETZA	93	-83.6	278.2	Maxibor 2
KR-11-1575	KETZA	96	-83.5	278.7	Maxibor 2
KR-11-1575	KETZA	99	-83.6	279.2	Maxibor 2
KR-11-1575	KETZA	102	-83.5	279.7	Maxibor 2
KR-11-1575	KETZA	105	-83.7	280.2	Maxibor 2
KR-11-1575	KETZA	108	-83.5	280.5	Maxibor 2
KR-11-1575	KETZA	111	-83.4	280.1	Maxibor 2
KR-11-1575	KETZA	114	-83.5	279.8	Maxibor 2
KR-11-1575	KETZA	117	-83.7	279.7	Maxibor 2
KR-11-1575	KETZA	120	-83.4	280.1	Maxibor 2
KR-11-1575	KETZA	123	-83.4	280.5	Maxibor 2
KR-11-1575	KETZA	126	-83.7	281.2	Maxibor 2
KR-11-1575	KETZA	129	-83.4	281.6	Maxibor 2
KR-11-1575	KETZA	132	-83.4	282.2	Maxibor 2
KR-11-1575	KETZA	135	-83.5	282.8	Maxibor 2
KR-11-1575	KETZA	138	-83.5	283.2	Maxibor 2
KR-11-1575	KETZA	141	-83.5	283.8	Maxibor 2
KR-11-1575	KETZA	144	-83.5	284.5	Maxibor 2
KR-11-1575	KETZA	147	-83.5	285	Maxibor 2
KR-11-1575	KETZA	150	-83.9	285.2	Maxibor 2
KR-11-1575	KETZA	153	-83.9	284.9	Maxibor 2
KR-11-1575	KETZA	156	-83.7	285.3	Maxibor 2
KR-11-1575	KETZA	159	-83.7	285.8	Maxibor 2

HOLE ID	PROJECT CODE	DEPTH	DIP	AZIMUTH	SURVTYPE
KR-11-1575	KETZA	162	-84.7	286.2	Maxibor 2
KR-11-1575	KETZA	165	-83.6	286.6	Maxibor 2
KR-11-1575	KETZA	168	-83.7	287.2	Maxibor 2
KR-11-1575	KETZA	171	-83.6	287.7	Maxibor 2
KR-11-1575	KETZA	174	-83.8	288.1	Maxibor 2
KR-11-1575	KETZA	177	-83.8	288.5	Maxibor 2
KR-11-1575	KETZA	180	-83.8	289	Maxibor 2
KR-11-1575	KETZA	183	-83.9	289.5	Maxibor 2
KR-11-1575	KETZA	186	-83.6	290	Maxibor 2
KR-11-1575	KETZA	189	-84	290.5	Maxibor 2
KR-11-1575	KETZA	192	-83.9	290.7	Maxibor 2
KR-11-1575	KETZA	195	-84	291.2	Maxibor 2
KR-11-1575	KETZA	198	-84.1	291.5	Maxibor 2
KR-11-1575	KETZA	201	-83.9	291.6	Maxibor 2
KR-11-1575	KETZA	204	-84.1	292	Maxibor 2
KR-11-1575	KETZA	207	-83.9	292.2	Maxibor 2
KR-11-1575	KETZA	210	-83.9	293.1	Maxibor 2
KR-11-1575	KETZA	213	-84	293.8	Maxibor 2
KR-11-1575	KETZA	216	-83.7	293.9	Maxibor 2
KR-11-1575	KETZA	219	-83.9	294	Maxibor 2
KR-11-1575	KETZA	222	-84.2	294.1	Maxibor 2
KR-11-1575	KETZA	225	-83.5	294	Maxibor 2
KR-11-1575	KETZA	228	-83.9	294.4	Maxibor 2
KR-11-1575	KETZA	234	-83.9	295.5	Maxibor 2
KR-11-1575	KETZA	242.93	-83.9	295.5	Maxibor 2
KR-11-1576	KETZA	0	-68.9	143.8	Maxibor 2
KR-11-1576	KETZA	3	-69	144	Maxibor 2
KR-11-1576	KETZA	6	-69.4	144.2	Maxibor 2
KR-11-1576	KETZA	9	-69.2	144.1	Maxibor 2
KR-11-1576	KETZA	12	-69	144.2	Maxibor 2
KR-11-1576	KETZA	15	-69.1	144.2	Maxibor 2
KR-11-1576	KETZA	18	-69	144.3	Maxibor 2
KR-11-1576	KETZA	21	-69	144.3	Maxibor 2
KR-11-1576	KETZA	24	-69	144.3	Maxibor 2
KR-11-1576	KETZA	27	-69.1	144.4	Maxibor 2
KR-11-1576	KETZA	30	-69.2	144.5	Maxibor 2
KR-11-1576	KETZA	33	-69.2	144.6	Maxibor 2
KR-11-1576	KETZA	36	-69.3	144.8	Maxibor 2
KR-11-1576	KETZA	39	-69.3	144.9	Maxibor 2
KR-11-1576	KETZA	42	-69.3	145.1	Maxibor 2
KR-11-1576	KETZA	45	-69.4	145.3	Maxibor 2
KR-11-1576	KETZA	48	-69.5	145.4	Maxibor 2
KR-11-1576	KETZA	51	-69.5	145.6	Maxibor 2
KR-11-1576	KETZA	54	-69.5	145.7	Maxibor 2
KR-11-1576	KETZA	57	-69.6	145.9	Maxibor 2
KR-11-1576	KETZA	60	-69.6	145.9	Maxibor 2
KR-11-1576	KETZA	63	-69.7	146.1	Maxibor 2
KR-11-1576	KETZA	66	-69.7	146.3	Maxibor 2

HOLE ID	PROJECT CODE	DEPTH	DIP	AZIMUTH	SURVTYPE
KR-11-1576	KETZA	69	-69.8	146.6	Maxibor 2
KR-11-1576	KETZA	72	-69.8	146.8	Maxibor 2
KR-11-1576	KETZA	75	-69.9	147	Maxibor 2
KR-11-1576	KETZA	78	-69.9	147.1	Maxibor 2
KR-11-1576	KETZA	81	-70	147.2	Maxibor 2
KR-11-1576	KETZA	84	-70.1	147.4	Maxibor 2
KR-11-1576	KETZA	87	-70.1	147.7	Maxibor 2
KR-11-1576	KETZA	90	-70.1	147.9	Maxibor 2
KR-11-1576	KETZA	93	-70.1	148.1	Maxibor 2
KR-11-1576	KETZA	96	-70.2	148.3	Maxibor 2
KR-11-1576	KETZA	99	-70.2	148.4	Maxibor 2
KR-11-1576	KETZA	102	-70.2	148.6	Maxibor 2
KR-11-1576	KETZA	105	-70.3	148.8	Maxibor 2
KR-11-1576	KETZA	108	-70.4	149.1	Maxibor 2
KR-11-1576	KETZA	111	-70.4	149.2	Maxibor 2
KR-11-1576	KETZA	114	-70.4	149.5	Maxibor 2
KR-11-1576	KETZA	117	-70.5	149.7	Maxibor 2
KR-11-1576	KETZA	120	-70.6	149.9	Maxibor 2
KR-11-1576	KETZA	123	-70.5	150.1	Maxibor 2
KR-11-1576	KETZA	126	-70.6	150.3	Maxibor 2
KR-11-1576	KETZA	129	-70.6	150.5	Maxibor 2
KR-11-1576	KETZA	132	-70.7	150.6	Maxibor 2
KR-11-1576	KETZA	135	-70.7	150.8	Maxibor 2
KR-11-1576	KETZA	138	-70.7	150.9	Maxibor 2
KR-11-1576	KETZA	141	-70.8	151.1	Maxibor 2
KR-11-1576	KETZA	144	-70.8	151.3	Maxibor 2
KR-11-1576	KETZA	147	-70.8	151.5	Maxibor 2
KR-11-1576	KETZA	150	-70.9	151.6	Maxibor 2
KR-11-1576	KETZA	153	-71	151.8	Maxibor 2
KR-11-1576	KETZA	156	-71	151.9	Maxibor 2
KR-11-1576	KETZA	159	-71	152.1	Maxibor 2
KR-11-1576	KETZA	162	-71.1	152.3	Maxibor 2
KR-11-1576	KETZA	165	-71.1	152.4	Maxibor 2
KR-11-1576	KETZA	168	-71.1	152.6	Maxibor 2
KR-11-1576	KETZA	171	-71.1	152.9	Maxibor 2
KR-11-1576	KETZA	174	-71.2	153.1	Maxibor 2
KR-11-1576	KETZA	177	-71.2	153.3	Maxibor 2
KR-11-1576	KETZA	180	-71.2	153.5	Maxibor 2
KR-11-1576	KETZA	183	-71.7	153.7	Maxibor 2
KR-11-1576	KETZA	186	-71.5	153.8	Maxibor 2
KR-11-1576	KETZA	189	-71.8	154	Maxibor 2
KR-11-1576	KETZA	192	-71.7	154.1	Maxibor 2
KR-11-1576	KETZA	195	-71.5	154.3	Maxibor 2
KR-11-1576	KETZA	198	-71.4	154.5	Maxibor 2
KR-11-1576	KETZA	201	-71.5	154.5	Maxibor 2
KR-11-1576	KETZA	207	-71.5	154.5	Maxibor 2
KR-11-1576	KETZA	209.4	-71.5	154.5	Maxibor 2
KR-11-1577	KETZA	0	-48.5	43.3	Maxibor 2

KETZA RIVER PROJECT KON CLAIMS 26-May-12
YUKON, CANADA DOWN HOLE SURVEYS

HOLE ID	PROJECT CODE	DEPTH	DIP	AZIMUTH	SURVTYPE
KR-11-1577	KETZA	3	-48.7	43.5	Maxibor 2
KR-11-1577	KETZA	6	-48.8	43.4	Maxibor 2
KR-11-1577	KETZA	9	-48.6	43.3	Maxibor 2
KR-11-1577	KETZA	12	-48.5	43.2	Maxibor 2
KR-11-1577	KETZA	15	-48.5	43.2	Maxibor 2
KR-11-1577	KETZA	18	-48.5	43.3	Maxibor 2
KR-11-1577	KETZA	21	-48.5	43.3	Maxibor 2
KR-11-1577	KETZA	24	-48.5	43.2	Maxibor 2
KR-11-1577	KETZA	27	-48.6	43.2	Maxibor 2
KR-11-1577	KETZA	30	-48.6	43.2	Maxibor 2
KR-11-1577	KETZA	33	-48.6	43.2	Maxibor 2
KR-11-1577	KETZA	36	-48.6	43.4	Maxibor 2
KR-11-1577	KETZA	39	-48.6	43.5	Maxibor 2
KR-11-1577	KETZA	42	-48.7	43.5	Maxibor 2
KR-11-1577	KETZA	45	-48.8	43.4	Maxibor 2
KR-11-1577	KETZA	48	-48.8	43.5	Maxibor 2
KR-11-1577	KETZA	51	-48.7	43.5	Maxibor 2
KR-11-1577	KETZA	54	-48.7	43.5	Maxibor 2
KR-11-1577	KETZA	57	-48.7	43.5	Maxibor 2
KR-11-1577	KETZA	60	-48.7	43.5	Maxibor 2
KR-11-1577	KETZA	63	-48.8	43.5	Maxibor 2
KR-11-1577	KETZA	66	-48.7	43.5	Maxibor 2
KR-11-1577	KETZA	69	-48.7	43.4	Maxibor 2
KR-11-1577	KETZA	72	-48.8	43.3	Maxibor 2
KR-11-1577	KETZA	75	-48.9	43.3	Maxibor 2
KR-11-1577	KETZA	78	-49.1	43.2	Maxibor 2
KR-11-1577	KETZA	81	-49.2	43.2	Maxibor 2
KR-11-1577	KETZA	84	-49.3	43.3	Maxibor 2
KR-11-1577	KETZA	87	-49.4	43.3	Maxibor 2
KR-11-1577	KETZA	90	-49.5	43.4	Maxibor 2
KR-11-1577	KETZA	93	-49.4	43.4	Maxibor 2
KR-11-1577	KETZA	96	-49.5	43.6	Maxibor 2
KR-11-1577	KETZA	99	-49.8	43.8	Maxibor 2
KR-11-1577	KETZA	102	-49.8	43.8	Maxibor 2
KR-11-1577	KETZA	105	-49.7	43.8	Maxibor 2
KR-11-1577	KETZA	108	-49.7	43.8	Maxibor 2
KR-11-1577	KETZA	111	-49.6	43.9	Maxibor 2
KR-11-1577	KETZA	114	-49.6	43.9	Maxibor 2
KR-11-1577	KETZA	117	-49.7	44	Maxibor 2
KR-11-1577	KETZA	120	-49.6	44	Maxibor 2
KR-11-1577	KETZA	123	-49.6	44	Maxibor 2
KR-11-1577	KETZA	126	-49.5	44	Maxibor 2
KR-11-1577	KETZA	129	-49.3	44	Maxibor 2
KR-11-1577	KETZA	132	-49.2	44	Maxibor 2
KR-11-1577	KETZA	135	-49.2	43.9	Maxibor 2
KR-11-1577	KETZA	138	-49.1	43.9	Maxibor 2
KR-11-1577	KETZA	141	-49	44	Maxibor 2
KR-11-1577	KETZA	144	-48.9	44.1	Maxibor 2

HOLE ID	PROJECT CODE	DEPTH	DIP	AZIMUTH	SURVTYPE
KR-11-1577	KETZA	147	-48.8	44.1	Maxibor 2
KR-11-1577	KETZA	150	-48.7	44.1	Maxibor 2
KR-11-1577	KETZA	153	-48.6	44.1	Maxibor 2
KR-11-1577	KETZA	156	-48.5	44.2	Maxibor 2
KR-11-1577	KETZA	159	-48.4	44.2	Maxibor 2
KR-11-1577	KETZA	162	-48.3	44.3	Maxibor 2
KR-11-1577	KETZA	165	-48.2	44.3	Maxibor 2
KR-11-1577	KETZA	168	-48.2	44.3	Maxibor 2
KR-11-1577	KETZA	171	-48.2	44.3	Maxibor 2
KR-11-1577	KETZA	174	-48.2	44.4	Maxibor 2
KR-11-1577	KETZA	177	-48.2	44.4	Maxibor 2
KR-11-1577	KETZA	180	-48.2	44.4	Maxibor 2
KR-11-1577	KETZA	183	-48.2	44.5	Maxibor 2
KR-11-1577	KETZA	186	-48.2	44.5	Maxibor 2
KR-11-1577	KETZA	189	-48.5	44.6	Maxibor 2
KR-11-1577	KETZA	195	-48.3	44.6	Maxibor 2
KR-11-1577	KETZA	215.49	-48.3	44.6	Maxibor 2
KR-11-1578	KETZA	0	-66.4	44.5	Maxibor 2
KR-11-1578	KETZA	3	-66.3	44.6	Maxibor 2
KR-11-1578	KETZA	6	-66.4	44.8	Maxibor 2
KR-11-1578	KETZA	9	-66.4	44.9	Maxibor 2
KR-11-1578	KETZA	12	-66.4	45	Maxibor 2
KR-11-1578	KETZA	15	-66.9	45.1	Maxibor 2
KR-11-1578	KETZA	18	-66.4	45.3	Maxibor 2
KR-11-1578	KETZA	21	-62.4	45.4	Maxibor 2
KR-11-1578	KETZA	24	-66.6	45.5	Maxibor 2
KR-11-1578	KETZA	27	-66.6	45.5	Maxibor 2
KR-11-1578	KETZA	30	-66.6	45.6	Maxibor 2
KR-11-1578	KETZA	33	-66.6	45.7	Maxibor 2
KR-11-1578	KETZA	36	-66.6	45.7	Maxibor 2
KR-11-1578	KETZA	39	-66.5	45.8	Maxibor 2
KR-11-1578	KETZA	42	-67.8	45.8	Maxibor 2
KR-11-1578	KETZA	45	-66.7	45.9	Maxibor 2
KR-11-1578	KETZA	48	-66.7	46	Maxibor 2
KR-11-1578	KETZA	51	-66.7	46.1	Maxibor 2
KR-11-1578	KETZA	54	-66.7	46.2	Maxibor 2
KR-11-1578	KETZA	57	-66.7	46.4	Maxibor 2
KR-11-1578	KETZA	60	-66.7	46.5	Maxibor 2
KR-11-1578	KETZA	63	-66.7	46.6	Maxibor 2
KR-11-1578	KETZA	66	-66.7	46.7	Maxibor 2
KR-11-1578	KETZA	69	-66.7	46.8	Maxibor 2
KR-11-1578	KETZA	72	-66.7	46.9	Maxibor 2
KR-11-1578	KETZA	75	-66.7	47	Maxibor 2
KR-11-1578	KETZA	78	-82.1	47.1	Maxibor 2
KR-11-1578	KETZA	81	-66.4	46.7	Maxibor 2
KR-11-1578	KETZA	84	-66.4	46.8	Maxibor 2
KR-11-1578	KETZA	87	-66.4	46.9	Maxibor 2
KR-11-1578	KETZA	90	-66.2	47.1	Maxibor 2

HOLE ID	PROJECT CODE	DEPTH	DIP	AZIMUTH	SURVTYPE
KR-11-1578	KETZA	93	-66.9	47.2	Maxibor 2
KR-11-1578	KETZA	96	-66.2	47.2	Maxibor 2
KR-11-1578	KETZA	99	-66.2	47.3	Maxibor 2
KR-11-1578	KETZA	102	-66.4	47.4	Maxibor 2
KR-11-1578	KETZA	105	-66.1	47.5	Maxibor 2
KR-11-1578	KETZA	108	-66.6	47.6	Maxibor 2
KR-11-1578	KETZA	111	-66.3	47.7	Maxibor 2
KR-11-1578	KETZA	114	-66.5	47.7	Maxibor 2
KR-11-1578	KETZA	117	-65.8	47.9	Maxibor 2
KR-11-1578	KETZA	120	-66.8	47.9	Maxibor 2
KR-11-1578	KETZA	123	-66.4	48	Maxibor 2
KR-11-1578	KETZA	126	-66.7	48	Maxibor 2
KR-11-1578	KETZA	129	-66.4	47.9	Maxibor 2
KR-11-1578	KETZA	132	-66.9	47.9	Maxibor 2
KR-11-1578	KETZA	135	-67.1	47.8	Maxibor 2
KR-11-1578	KETZA	138	-67.2	47.7	Maxibor 2
KR-11-1578	KETZA	141	-67.4	47.5	Maxibor 2
KR-11-1578	KETZA	144	-67.1	47.2	Maxibor 2
KR-11-1578	KETZA	147	-67.1	47	Maxibor 2
KR-11-1578	KETZA	153	-67.1	46.9	Maxibor 2
KR-11-1578	KETZA	169.77	-67.1	46.9	Maxibor 2
KR-11-1579	KETZA	0	-83.5	55.5	Maxibor 2
KR-11-1579	KETZA	3	-83.7	55.4	Maxibor 2
KR-11-1579	KETZA	6	-83.5	55.4	Maxibor 2
KR-11-1579	KETZA	9	-83.4	55.5	Maxibor 2
KR-11-1579	KETZA	12	-83.4	55.6	Maxibor 2
KR-11-1579	KETZA	15	-83.4	56	Maxibor 2
KR-11-1579	KETZA	18	-83.3	56.4	Maxibor 2
KR-11-1579	KETZA	21	-83.4	56.7	Maxibor 2
KR-11-1579	KETZA	24	-83.4	56.9	Maxibor 2
KR-11-1579	KETZA	27	-82.9	57.1	Maxibor 2
KR-11-1579	KETZA	30	-83	57.2	Maxibor 2
KR-11-1579	KETZA	33	-83.1	57.3	Maxibor 2
KR-11-1579	KETZA	36	-83	57.6	Maxibor 2
KR-11-1579	KETZA	39	-83.6	57.5	Maxibor 2
KR-11-1579	KETZA	42	-83.7	57.5	Maxibor 2
KR-11-1579	KETZA	45	-83.2	57.8	Maxibor 2
KR-11-1579	KETZA	48	-83.4	57.6	Maxibor 2
KR-11-1579	KETZA	51	-83.4	57.3	Maxibor 2
KR-11-1579	KETZA	54	-83.3	57.6	Maxibor 2
KR-11-1579	KETZA	57	-83.1	57.9	Maxibor 2
KR-11-1579	KETZA	60	-83	58.1	Maxibor 2
KR-11-1579	KETZA	63	-83.1	58.6	Maxibor 2
KR-11-1579	KETZA	66	-82.9	59	Maxibor 2
KR-11-1579	KETZA	69	-82.8	59.2	Maxibor 2
KR-11-1579	KETZA	72	-82.9	59.4	Maxibor 2
KR-11-1579	KETZA	75	-82.9	59.5	Maxibor 2
KR-11-1579	KETZA	78	-82.9	59.6	Maxibor 2

HOLE ID	PROJECT CODE	DEPTH	DIP	AZIMUTH	SURVTYPE
KR-11-1579	KETZA	81	-82.9	59.6	Maxibor 2
KR-11-1579	KETZA	84	-82.9	59.7	Maxibor 2
KR-11-1579	KETZA	87	-82.9	59.8	Maxibor 2
KR-11-1579	KETZA	90	-83.9	60	Maxibor 2
KR-11-1579	KETZA	93	-82.9	60.1	Maxibor 2
KR-11-1579	KETZA	96	-83.1	60.2	Maxibor 2
KR-11-1579	KETZA	99	-82.9	60.3	Maxibor 2
KR-11-1579	KETZA	102	-82.9	60.4	Maxibor 2
KR-11-1579	KETZA	105	-82.9	60.6	Maxibor 2
KR-11-1579	KETZA	108	-82.9	60.7	Maxibor 2
KR-11-1579	KETZA	111	-82.8	60.8	Maxibor 2
KR-11-1579	KETZA	114	-82.9	60.9	Maxibor 2
KR-11-1579	KETZA	117	-82.9	61.1	Maxibor 2
KR-11-1579	KETZA	120	-82.9	61.2	Maxibor 2
KR-11-1579	KETZA	123	-82.9	61.4	Maxibor 2
KR-11-1579	KETZA	126	-82.9	61.5	Maxibor 2
KR-11-1579	KETZA	129	-82.6	61.6	Maxibor 2
KR-11-1579	KETZA	132	-82.8	61.7	Maxibor 2
KR-11-1579	KETZA	135	-82.4	61.9	Maxibor 2
KR-11-1579	KETZA	138	-83.8	61.8	Maxibor 2
KR-11-1579	KETZA	141	-82.7	61.9	Maxibor 2
KR-11-1579	KETZA	144	-83	62	Maxibor 2
KR-11-1579	KETZA	147	-83.8	62	Maxibor 2
KR-11-1579	KETZA	150	-83.2	61.9	Maxibor 2
KR-11-1579	KETZA	153	-82.8	61.7	Maxibor 2
KR-11-1579	KETZA	156	-82.9	61.8	Maxibor 2
KR-11-1579	KETZA	159	-82.9	61.8	Maxibor 2
KR-11-1579	KETZA	162	-82.9	61.7	Maxibor 2
KR-11-1579	KETZA	165	-83.2	61.7	Maxibor 2
KR-11-1579	KETZA	168	-83.6	61.6	Maxibor 2
KR-11-1579	KETZA	171	-83.4	61.6	Maxibor 2
KR-11-1579	KETZA	174	-83.1	61.5	Maxibor 2
KR-11-1579	KETZA	177	-83.2	61.6	Maxibor 2
KR-11-1579	KETZA	180	-83.1	61.8	Maxibor 2
KR-11-1579	KETZA	183	-82.8	61.7	Maxibor 2
KR-11-1579	KETZA	186	-83.6	61.7	Maxibor 2
KR-11-1579	KETZA	189	-83.1	61.6	Maxibor 2
KR-11-1579	KETZA	192	-83.4	61.6	Maxibor 2
KR-11-1579	KETZA	195	-83.1	61.4	Maxibor 2
KR-11-1579	KETZA	198	-83.4	61.5	Maxibor 2
KR-11-1579	KETZA	201	-83.3	61.4	Maxibor 2
KR-11-1579	KETZA	207	-83.3	61	Maxibor 2
KR-11-1579	KETZA	216.64	-83.3	61	Maxibor 2
KR-11-1580	KETZA	0	-82.3	9.3	Total Station
KR-11-1580	KETZA	187.6	-82.3	9.3	Total Station
KR-11-1581	KETZA	0	-48.2	8.6	Total Station
KR-11-1581	KETZA	147.19	-48.2	8.6	Total Station

APPENDIX IV: ALS ASSAY INVOICES

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **KETZA RIVER HOLDINGS LTD.**
900 - 688 W. HASTINGS
VANCOUVER BC V6B 1P1

INVOICE NUMBER 2458624

BILLING INFORMATION

Certificate:	**WH11239485**
Sample Type:	**Drill Core**
Account:	**KETRIV**
Date:	**15-DEC-2011**
Project:	Ketza River
P.O. No.:	KR-11-1572
Quote:	ALSM-CW11-042-KETRIV
Terms:	**Due on Receipt** C1
Comments:	

QUANTITY	CODE	ANALYSED FOR - DESCRIPTION	UNIT PRICE	TOTAL
1	BAT-01	Administration Fee	29.93	29.93
122	PREP-31	Crush, Split, Pulverize	6.75	823.50
722.70	PREP-31	Weight Charge (kg) - Crush, Split, Pulverize	0.62	448.07
3	LOG-24	Pulp Login - Rcd w/o Barcode	1.15	3.45
125	Au-AA23	Au 30g FA-AA finish	13.77	1,721.25
3	Au-GRA21	Au 30g FA-GRAV finish	18.05	54.15
125	ME-ICP41	35 Element Aqua Regia ICP-AES	6.04	755.00
1	ME-OG46	Ore Grade Elements - AquaRegia	2.12	2.12
125	GEO-AR01	Aqua regia digestion	3.50	437.50
1	ASY-AR01	Assay Aqua Regia Digestion	5.31	5.31
1	As-OG46	Ore Grade As - Aqua Regia	2.35	2.35

SUBTOTAL (CAD)	$	4,282.63
R100938885 HST BC	$	513.92
TOTAL PAYABLE (CAD)	**$**	**4,796.55**

To: **KETZA RIVER HOLDINGS LTD.**
ATTN: KETZA INVOICE
900 - 688 W. HASTINGS
VANCOUVER BC V6B 1P1

Payment may be made by: Cheque or Bank Transfer

Beneficiary Name:	ALS Canada Ltd.
Bank:	Royal Bank of Canada
SWIFT:	ROYCCAT2
Address:	Vancouver, BC, CAN
Account:	003-00010-1001098

Please send payment info to accounting.canusa@alsglobal.com

Please Remit Payments To :
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7

Approved by: Sunny Purewal Date: 12/20/2011 Time: 8:57 AM

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **KETZA RIVER HOLDINGS LTD.**
900 - 688 W. HASTINGS
VANCOUVER BC V6B 1P1

INVOICE NUMBER 2478512

BILLING INFORMATION

Certificate:	**WH11247490**
Sample Type:	**Drill Core**
Account:	**KETRIV**
Date:	**3-JAN-2012**
Project:	Ketza River
P.O. No.:	KR-11-1573
Quote:	ALSM-CW11-042-KETRIV
Terms:	**Due on Receipt** C1
Comments:	

QUANTITY	ANALYSED FOR CODE	- DESCRIPTION	UNIT PRICE	TOTAL
1	BAT-01	Administration Fee	29.93	29.93
133	PREP-31	Crush, Split, Pulverize	6.75	897.75
780.29	PREP-31	Weight Charge (kg) - Crush, Split, Pulverize	0.62	483.78
5	LOG-24	Pulp Login - Rcd w/o Barcode	1.15	5.75
138	Au-AA23	Au 30g FA-AA finish	13.77	1,900.26
5	Au-GRA21	Au 30g FA-GRAV finish	18.05	90.25
138	ME-ICP41	35 Element Aqua Regia ICP-AES	6.04	833.52
138	GEO-AR01	Aqua regia digestion	3.50	483.00

SUBTOTAL (CAD)	$	4,724.24
R100938885 HST BC	$	566.91
TOTAL PAYABLE (CAD)	**$**	**5,291.15**

To: **KETZA RIVER HOLDINGS LTD.**
ATTN: KETZA INVOICE
900 - 688 W. HASTINGS
VANCOUVER BC V6B 1P1

Payment may be made by: Cheque or Bank Transfer

Beneficiary Name:	ALS Canada Ltd.
Bank:	Royal Bank of Canada
SWIFT:	ROYCCAT2
Address:	Vancouver, BC, CAN
Account:	003-00010-1001098

Please send payment info to accounting.canusa@alsglobal.com

Please Remit Payments To :
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7

Approved by: Sunny Purewal Date: 1/13/2012 Time: 3:07 PM

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **KETZA RIVER HOLDINGS LTD.**
900 - 688 W. HASTINGS
VANCOUVER BC V6B 1P1

INVOICE NUMBER 2487831

BILLING INFORMATION

Certificate:	**WH11263641**
Sample Type:	**Drill Core**
Account:	**KETRIV**
Date:	**10-JAN-2012**
Project:	Ketza River
P.O. No.:	KR-11-1574
Quote:	ALSM-CW11-042-KETRIV
Terms:	**Due on Receipt** C2
Comments:	

QUANTITY	ANALYSED FOR CODE	- DESCRIPTION	UNIT PRICE	TOTAL
1	BAT-01	Administration Fee	29.93	29.93
101	PREP-31	Crush, Split, Pulverize	6.75	681.75
616.62	PREP-31	Weight Charge (kg) - Crush, Split, Pulverize	0.62	382.30
5	LOG-24	Pulp Login - Rcd w/o Barcode	1.15	5.75
106	Au-AA23	Au 30g FA-AA finish	13.77	1,459.62
5	Au-GRA21	Au 30g FA-GRAV finish	18.05	90.25
106	ME-ICP41	35 Element Aqua Regia ICP-AES	6.04	640.24
1	Cu-OG46	Ore Grade Cu - Aqua Regia	2.12	2.12
2	ME-OG46	Ore Grade Elements - AquaRegia	2.12	4.24
1	Zn-OG46	Ore Grade Zn - Aqua Regia	2.12	2.12
106	GEO-AR01	Aqua regia digestion	3.50	371.00
2	ASY-AR01	Assay Aqua Regia Digestion	5.31	10.62

SUBTOTAL (CAD)	$	3,679.94
R100938885 HST BC	$	441.59
TOTAL PAYABLE (CAD)	**$**	**4,121.53**

To: **KETZA RIVER HOLDINGS LTD.**
ATTN: KETZA INVOICE
900 - 688 W. HASTINGS
VANCOUVER BC V6B 1P1

Payment may be made by: Cheque or Bank Transfer

Beneficiary Name:	ALS Canada Ltd.
Bank:	Royal Bank of Canada
SWIFT:	ROYCCAT2
Address:	Vancouver, BC, CAN
Account:	003-00010-1001098

Please send payment info to accounting.canusa@alsglobal.com

Please Remit Payments To :
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7

Approved by: Sunny Purewal Date: 1/13/2012 Time: 2:39 PM

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **KETZA RIVER HOLDINGS LTD.**
900 - 688 W. HASTINGS
VANCOUVER BC V6B 1P1

INVOICE NUMBER 2469698

BILLING INFORMATION

Certificate:	**WH11249513**
Sample Type:	**Drill Core**
Account:	**KETRIV**
Date:	**22-DEC-2011**
Project:	Ketza River
P.O. No.:	KR-11-1575
Quote:	ALSM-CW11-042-KETRIV
Terms:	**Due on Receipt** C1
Comments:	

ANALYSED FOR

QUANTITY	CODE	- DESCRIPTION	UNIT PRICE	TOTAL
1	BAT-01	Administration Fee	29.93	29.93
58	PREP-31	Crush, Split, Pulverize	6.75	391.50
323.96	PREP-31	Weight Charge (kg) - Crush, Split, Pulverize	0.62	200.86
3	LOG-24	Pulp Login - Rcd w/o Barcode	1.15	3.45
61	Au-AA23	Au 30g FA-AA finish	13.77	839.97
3	Au-GRA21	Au 30g FA-GRAV finish	18.05	54.15
61	ME-ICP41	35 Element Aqua Regia ICP-AES	6.04	368.44
61	GEO-AR01	Aqua regia digestion	3.50	213.50

SUBTOTAL (CAD)	$	2,101.80
R100938885 HST BC	$	252.22
TOTAL PAYABLE (CAD)	**$**	**2,354.02**

To: **KETZA RIVER HOLDINGS LTD.**
ATTN: KETZA INVOICE
900 - 688 W. HASTINGS
VANCOUVER BC V6B 1P1

Payment may be made by: Cheque or Bank Transfer

Beneficiary Name:	ALS Canada Ltd.
Bank:	Royal Bank of Canada
SWIFT:	ROYCCAT2
Address:	Vancouver, BC, CAN
Account:	003-00010-1001098

Please send payment info to accounting.canusa@alsglobal.com

Please Remit Payments To :
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7

Approved by: Sunny Purewal Date: 1/13/2012 Time: 11:01 AM

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **KETZA RIVER HOLDINGS LTD.**
900 - 688 W. HASTINGS
VANCOUVER BC V6B 1P1

INVOICE NUMBER 2458617

BILLING INFORMATION

Certificate:	**WH11239483**
Sample Type:	**Drill Core**
Account:	**KETRIV**
Date:	**9-DEC-2011**
Project:	Ketza River
P.O. No.:	KR-11-1576
Quote:	ALSM-CW11-042-KETRIV
Terms:	**Due on Receipt** C1
Comments:	

ANALYSED FOR

QUANTITY	CODE	- DESCRIPTION	UNIT PRICE	TOTAL
1	BAT-01	Administration Fee	29.93	29.93
58	PREP-31	Crush, Split, Pulverize	6.75	391.50
319.36	PREP-31	Weight Charge (kg) - Crush, Split, Pulverize	0.62	198.00
3	LOG-24	Pulp Login - Rcd w/o Barcode	1.15	3.45
61	Au-AA23	Au 30g FA-AA finish	13.77	839.97
3	Au-GRA21	Au 30g FA-GRAV finish	18.05	54.15
61	ME-ICP41	35 Element Aqua Regia ICP-AES	6.04	368.44
61	GEO-AR01	Aqua regia digestion	3.50	213.50

SUBTOTAL (CAD)	$	2,098.94
R100938885 HST BC	$	251.87
TOTAL PAYABLE (CAD)	**$**	**2,350.81**

To: **KETZA RIVER HOLDINGS LTD.**
ATTN: SUNNY PUREWAL
900 - 688 W. HASTINGS
VANCOUVER BC V6B 1P1

Payment may be made by: Cheque or Bank Transfer

Beneficiary Name:	ALS Canada Ltd.
Bank:	Royal Bank of Canada
SWIFT:	ROYCCAT2
Address:	Vancouver, BC, CAN
Account:	003-00010-1001098

Please send payment info to accounting.canusa@alsglobal.com

Please Remit Payments To :
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7

Approved by: Sunny Purewal Date: 12/20/2011 Time: 8:56 AM

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **KETZA RIVER HOLDINGS LTD.**
900 - 688 W. HASTINGS
VANCOUVER BC V6B 1P1

INVOICE NUMBER 2450454

BILLING INFORMATION

Certificate:	**WH11230802**
Sample Type:	**Drill Core**
Account:	**KETRIV**
Date:	**11-DEC-2011**
Project:	Ketza River
P.O. No.:	KR-11-1577
Quote:	ALSM-CW11-042-KETRIV
Terms:	**Due on Receipt** C1
Comments:	

ANALYSED FOR

QUANTITY	CODE	- DESCRIPTION	UNIT PRICE	TOTAL
92	PREP-31	Crush, Split, Pulverize	6.75	621.00
515.50	PREP-31	Weight Charge (kg) - Crush, Split, Pulverize	0.62	319.61
4	LOG-24	Pulp Login - Rcd w/o Barcode	1.15	4.60
96	Au-AA23	Au 30g FA-AA finish	13.77	1,321.92
7	Au-GRA21	Au 30g FA-GRAV finish	18.05	126.35
96	ME-ICP41	35 Element Aqua Regia ICP-AES	6.04	579.84
4	ME-OG46	Ore Grade Elements - AquaRegia	2.12	8.48
1	Zn-OG46	Ore Grade Zn - Aqua Regia	2.12	2.12
96	GEO-AR01	Aqua regia digestion	3.50	336.00
4	ASY-AR01	Assay Aqua Regia Digestion	5.31	21.24
3	As-OG46	Ore Grade As - Aqua Regia	2.35	7.05

SUBTOTAL (CAD)	$	3,348.21
R100938885 HST BC	$	401.79
TOTAL PAYABLE (CAD)	**$**	**3,750.00**

To: **KETZA RIVER HOLDINGS LTD.**
ATTN: SUNNY PUREWAL
900 - 688 W. HASTINGS
VANCOUVER BC V6B 1P1

Payment may be made by: Cheque or Bank Transfer

Beneficiary Name:	ALS Canada Ltd.
Bank:	Royal Bank of Canada
SWIFT:	ROYCCAT2
Address:	Vancouver, BC, CAN
Account:	003-00010-1001098

Please send payment info to accounting.canusa@alsglobal.com

Please Remit Payments To :
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7

Approved by: Sunny Purewal Date: 12/20/2011 Time: 8:55 AM

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **KETZA RIVER HOLDINGS LTD.**
900 - 688 W. HASTINGS
VANCOUVER BC V6B 1P1

RECEIVED JAN 11 2012

INVOICE NUMBER 2487918

BILLING INFORMATION

Certificate:	**WH11263643**
Sample Type:	**Drill Core**
Account:	**KETRIV**
Date:	**10-JAN-2012**
Project:	Ketza River
P.O. No.:	KR-11-1578
Quote:	ALSM-CW11-042-KETRIV
Terms:	**Due on Receipt** C2
Comments:	

ANALYSED FOR

QUANTITY	CODE	DESCRIPTION	UNIT PRICE	TOTAL
1	BAT-01	Administration Fee	29.93	29.93
45	PREP-31	Crush, Split, Pulverize	6.75	303.75
205.18	PREP-31	Weight Charge (kg) - Crush, Split, Pulverize	0.62	127.21
1	LOG-24	Pulp Login - Rcd w/o Barcode	1.15	1.15
46	Au-AA23	Au 30g FA-AA finish	13.77	633.42
2	Au-GRA21	Au 30g FA-GRAV finish	18.05	36.10
46	ME-ICP41	35 Element Aqua Regia ICP-AES	6.04	277.84
1	ME-OG46	Ore Grade Elements - AquaRegia	2.12	2.12
46	GEO-AR01	Aqua regia digestion	3.50	161.00
1	ASY-AR01	Assay Aqua Regia Digestion	5.31	5.31
1	As-OG46	Ore Grade As - Aqua Regia	2.35	2.35

SUBTOTAL (CAD)	$	1,580.18
R100938885 HST BC	$	189.62
TOTAL PAYABLE (CAD)	**$**	**1,769.80**

To: **KETZA RIVER HOLDINGS LTD.**
ATTN: KETZA INVOICE
900 - 688 W. HASTINGS
VANCOUVER BC V6B 1P1

Payment may be made by: Cheque or Bank Transfer

Beneficiary Name:	ALS Canada Ltd.
Bank:	Royal Bank of Canada
SWIFT:	ROYCCAT2
Address:	Vancouver, BC, CAN
Account:	003-00010-1001098

Please send payment info to accounting.canusa@alsglobal.com

Please Remit Payments To :
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7

Approved by: Sunny Purewal Date: 1/13/2012 Time: 2:40 PM

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **KETZA RIVER HOLDINGS LTD.**
900 - 688 W. HASTINGS
VANCOUVER BC V6B 1P1

INVOICE NUMBER 2487847

BILLING INFORMATION

Certificate:	**WH11263234**
Sample Type:	**Drill Core**
Account:	**KETRIV**
Date:	**14-JAN-2012**
Project:	Ketza River
P.O. No.:	KR-11-1579
Quote:	ALSM-CW11-042-KETRIV
Terms:	**Due on Receipt** C3
Comments:	

QUANTITY	ANALYSED FOR CODE	- DESCRIPTION	UNIT PRICE	TOTAL
1	BAT-01	Administration Fee	29.93	29.93
67	PREP-31	Crush, Split, Pulverize	6.75	452.25
326.11	PREP-31	Weight Charge (kg) - Crush, Split, Pulverize	0.62	202.19
3	LOG-24	Pulp Login - Rcd w/o Barcode	1.15	3.45
70	Au-AA23	Au 30g FA-AA finish	13.77	963.90
6	Au-GRA21	Au 30g FA-GRAV finish	18.05	108.30
70	ME-ICP41	35 Element Aqua Regia ICP-AES	6.04	422.80
1	Cu-OG46	Ore Grade Cu - Aqua Regia	2.12	2.12
2	ME-OG46	Ore Grade Elements - AquaRegia	2.12	4.24
70	GEO-AR01	Aqua regia digestion	3.50	245.00
2	ASY-AR01	Assay Aqua Regia Digestion	5.31	10.62
1	As-OG46	Ore Grade As - Aqua Regia	2.35	2.35

SUBTOTAL (CAD)	$	2,447.15
R100938885 HST BC	$	293.66
TOTAL PAYABLE (CAD)	**$**	**2,740.81**

To: **KETZA RIVER HOLDINGS LTD.**
ATTN: KETZA INVOICE
900 - 688 W. HASTINGS
VANCOUVER BC V6B 1P1

Payment may be made by: Cheque or Bank Transfer

Beneficiary Name:	ALS Canada Ltd.
Bank:	Royal Bank of Canada
SWIFT:	ROYCCAT2
Address:	Vancouver, BC, CAN
Account:	003-00010-1001098

Please send payment info to accounting.canusa@alsglobal.com

Please Remit Payments To :
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7

Approved by: Sunny Purewal Date: 1/30/2012 Time: 8:22 AM

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **KETZA RIVER HOLDINGS LTD.**
900 - 688 W. HASTINGS
VANCOUVER BC V6B 1P1

INVOICE NUMBER 2452941

BILLING INFORMATION

Certificate:	**WH11223723**
Sample Type:	**Drill Core**
Account:	**KETRIV**
Date:	**4-DEC-2011**
Project:	Ketza River
P.O. No.:	KR - 11 - 1580
Quote:	ALSM-CW11-042-KETRIV
Terms:	**Due on Receipt** C1
Comments:	

ANALYSED FOR

QUANTITY	CODE	- DESCRIPTION	UNIT PRICE	TOTAL
1	BAT-01	Administration Fee	29.93	29.93
4	PREP-31	Crush, Split, Pulverize	6.75	27.00
30.15	PREP-31	Weight Charge (kg) - Crush, Split, Pulverize	0.62	18.69
4	Au-AA23	Au 30g FA-AA finish	13.77	55.08
4	ME-ICP41	35 Element Aqua Regia ICP-AES	6.04	24.16
4	GEO-AR01	Aqua regia digestion	3.50	14.00

SUBTOTAL (CAD)	$	168.86
R100938885 HST BC	$	20.26
TOTAL PAYABLE (CAD)	**$**	**189.12**

To: **KETZA RIVER HOLDINGS LTD.**
ATTN: SUNNY PUREWAL
900 - 688 W. HASTINGS
VANCOUVER BC V6B 1P1

Payment may be made by: Cheque or Bank Transfer

Beneficiary Name:	ALS Canada Ltd.
Bank:	Royal Bank of Canada
SWIFT:	ROYCCAT2
Address:	Vancouver, BC, CAN
Account:	003-00010-1001098

Please send payment info to accounting.canusa@alsglobal.com

Please Remit Payments To :
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7

Approved by: Sunny Purewal Date: 12/13/2011 Time: 1:55 PM

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **KETZA RIVER HOLDINGS LTD.**
900 - 688 W. HASTINGS
VANCOUVER BC V6B 1P1

INVOICE NUMBER 2449873

BILLING INFORMATION

Certificate:	**WH11230801**
Sample Type:	**Drill Core**
Account:	**KETRIV**
Date:	**13-DEC-2011**
Project:	Ketza River
P.O. No.:	KR-11-1580
Quote:	ALSM-CW11-042-KETRIV
Terms:	**Due on Receipt** C1
Comments:	

ANALYSED FOR

QUANTITY	CODE	- DESCRIPTION	UNIT PRICE	TOTAL
91	PREP-31	Crush, Split, Pulverize	6.75	614.25
362.04	PREP-31	Weight Charge (kg) - Crush, Split, Pulverize	0.62	224.46
4	LOG-24	Pulp Login - Rcd w/o Barcode	1.15	4.60
95	Au-AA23	Au 30g FA-AA finish	13.77	1,308.15
6	Au-GRA21	Au 30g FA-GRAV finish	18.05	108.30
95	ME-ICP41	35 Element Aqua Regia ICP-AES	6.04	573.80
3	ME-OG46	Ore Grade Elements - AquaRegia	2.12	6.36
1	Pb-OG46	Ore Grade Pb - Aqua Regia	2.12	2.12
95	GEO-AR01	Aqua regia digestion	3.50	332.50
3	ASY-AR01	Assay Aqua Regia Digestion	5.31	15.93
2	As-OG46	Ore Grade As - Aqua Regia	2.35	4.70

SUBTOTAL (CAD)	$	3,195.17
R100938885 HST BC	$	383.42
TOTAL PAYABLE (CAD)	**$**	**3,578.59**

To: **KETZA RIVER HOLDINGS LTD.**
ATTN: KETZA INVOICE
900 - 688 W. HASTINGS
VANCOUVER BC V6B 1P1

Payment may be made by: Cheque or Bank Transfer

Beneficiary Name:	ALS Canada Ltd.
Bank:	Royal Bank of Canada
SWIFT:	ROYCCAT2
Address:	Vancouver, BC, CAN
Account:	003-00010-1001098

Please send payment info to accounting.canusa@alsglobal.com

Please Remit Payments To :
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7

Approved by: Sunny Purewal Date: 12/20/2011 Time: 9:00 AM

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **KETZA RIVER HOLDINGS LTD.**
900 - 688 W. HASTINGS
VANCOUVER BC V6B 1P1

INVOICE NUMBER 2468330

BILLING INFORMATION

Certificate:	**WH11247491**
Sample Type:	**Drill Core**
Account:	**KETRIV**
Date:	**22-DEC-2011**
Project:	Ketza River
P.O. No.:	KR-11-1581
Quote:	ALSM-CW11-042-KETRIV
Terms:	**Due on Receipt** C1
Comments:	

ANALYSED FOR

QUANTITY	CODE	- DESCRIPTION	UNIT PRICE	TOTAL
49	PREP-31	Crush, Split, Pulverize	6.75	330.75
205.35	PREP-31	Weight Charge (kg) - Crush, Split, Pulverize	0.62	127.32
2	LOG-24	Pulp Login - Rcd w/o Barcode	1.15	2.30
51	Au-AA23	Au 30g FA-AA finish	13.77	702.27
2	Au-GRA21	Au 30g FA-GRAV finish	18.05	36.10
51	ME-ICP41	35 Element Aqua Regia ICP-AES	6.04	308.04
51	GEO-AR01	Aqua regia digestion	3.50	178.50

SUBTOTAL (CAD)	$	1,685.28
R100938885 HST BC	$	202.23
TOTAL PAYABLE (CAD)	**$**	**1,887.51**

To: **KETZA RIVER HOLDINGS LTD.**
ATTN: KETZA INVOICE
900 - 688 W. HASTINGS
VANCOUVER BC V6B 1P1

Payment may be made by: Cheque or Bank Transfer

Beneficiary Name:	ALS Canada Ltd.
Bank:	Royal Bank of Canada
SWIFT:	ROYCCAT2
Address:	Vancouver, BC, CAN
Account:	003-00010-1001098

Please send payment info to accounting.canusa@alsglobal.com

Please Remit Payments To :
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7

Approved by: Sunny Purewal Date: 1/13/2012 Time: 11:02 AM

APPENDIX V: KETZA DRILLHOLE LOGGING CODES

Lithology

	MANTO LITHOLOGY
ARG	argillite/black shale
BA	black argillite
BL	black limestone
BSLT	black siltstone
BXLT	blue crystalline
CCLT	zebra rock
FSLT	fossiliferous
LST	limestone
MSLT	massive-oolitic
MUD	mudstone
PHIL	phyllite
WBN	wispy banded
0	SHAMROCK LITHOLOGY
AQS	ARG/QTE/SLT
ARG	argillite
ARGQTE	argillite & quartzite
ARS	ARG/SLT
ASQ	ARG/SLT/QTE
BA	black argillite
BL	black limestone
BSLT	black silty limestone
BXLT	blue crystalline
CALARG	calcareous argillite
CALQTE	calcareous quartzite
CALSLT	calcareous siltstone
CAS	casing
CCLT	zebra rock
CHT	chert
DIKE	dike
DOL	dolomite
FSLT	fossiliferous
FZ	fault zone
GO	gouge
GRNST	Greenstone
HFLS	hornfels
INT	intrusive
LC	lost core
LST	limestone
MARBLE	marble
MSLT	massive-oolitic
MUD	mudstone
MW	mine workings
OVB	overburden
OXIDE	Oxide Mineralisation
PHIL	phyllite
QAS	QTE/ARG/SLT
QSA	QTE/SLT/ARG
QTE	quartzite
QTEARG	quartzite & argillite
QTESLT	quartzite & siltstone
QTZ	Quartz
SAQ	SLT/ARG/QTE
SH	shale
SKN	skarn
SL	slate
SLT	siltstone
SLTARG	siltstone & argillite
SLTQTE	siltstone & quartzite
SQA	SLT/QTE/ARG
SST	sandstone
STLS	silty limestone
SULF	massive sulphide(>50%)
VEIN	vein
VOID	Void
WBN	wispy banded

Color

9	Palest
8	Pale
7	Light
6	Light-medium
5	Medium
4	Medium-dark
3	Dark
2	Very Dark
1	Darkest

a = gray
b = blue
g = green
l = lime (yg)
n = black
o = orange
p = purple
q = aqua (bp)
r = red
t = tan (khaki)
u = brown (umber)
v = violet (bp)
w = white
y = yellow

M = metallic
(py cpy po bn sil)

Texture

BW	boxworked
BX	brecciated
CG	coarse grained
FG	fine grained
FR	fractured
GR	graded
LM	laminated
MDBD	medium_bedded
MG	medium grained
MS	massive
PH	phyllitic
PORPH	porphyritic
RB	rhythmically banded

Alteration

BIO	biotite
CARB	carbonate
Chl	chlorite
Clay	clay
DOL	dolomitization
EPD	epidote
FeCO	Iron Carbonatisation
GSK	garnet skarn
HRNF	hornfels
MB	marble
PSK	pyroxene skarn
PX	pyroxene
RTG	retrograde
SER	sericite
SID	siderite
SIL	silicification
TALC	talc

Veins

As	arsenopyrite
Ca	calcite
CaDol	calcite-dolomite
Cpy	chalcopyrite
Dol	dolomite
Po	pyrrhotite
Py	pyrite
Q	quartz
QAs	quartz-arsenopyrite
QAsPo	quartz-arsenopyrite-pyrrhotite
QAsPy	quartz-arsenopyrite-pyrite
QCa	quartz-calcite
QCaAs	quartz-calcite-arsenopyrite
QCaPo	quartz-calcite-pyrrhotite
QCaPy	quartz-calcite-pyrite
QCaSid	quartz-calcite-siderite
QDol	quartz-dolomite
QDolPy	quartz-dolomite-pyrite
QDoSid	quartz-dolomite-siderite
QDSPy	quartz-dolomite-siderite-py
QoxPy	quartz-oxidized pyrite
QPo	quartz-pyrrhotite
QPoACp	quartz-pyrrhotite-Aspy-Cpy
QPoAs	quartz-pyrrhotite-arsenopyrite
QPoCpy	quartz-pyrrhotite-chalcopyrite
QPoCpy	quartz-pyrrhotite-chalcopyrite
QPoPy	quartz-pyrrhotite-pyrite
QPy	quartz-pyrite
QPyAs	quartz-pyrite-arsenopyrite
QPyPo	quartz-pyrite-pyrrhotite
QSDPy	quartz-siderite-dolomite-py
QSid	quartz-siderite
QSidCa	quartz-siderite-calcite
QSidDo	quartz-siderite-dolomite
QSidGa	quartz-siderite-galena
QSidPy	quartz-siderite-pyrite
QSidTt	quartz-siderite-tetrahedrite
Sid	siderite

Sulphide style

BNDS	bands
BXM	breccia matrix
CL	clast
DS	disseminated
DSFC	disseminated & fracture coating
DSSTR	disseminated & stringers
DSVN	disseminated & veins
EN	envelopes
EY	eyes
FC	fracture coating
FCDS	fracture coating & disseminated
GO	gouge
ND	nodules
POD	pods
PT	patches
PV	pervasive
RP	replacement
SH	sheeting
SK	stockwork
SL	selvages
SP	spots
ST	staining
STR	stringer
STRDS	stringers & disseminated
VNDS	veins & disseminated
VNLTS	veinlets
VNS	veins

Minerals

Au	gold
Bn	bornite
Cal	calcite
Chct	chalcanthite
Dol	dolomite
Fbgt	freibergite
Gal	galena
Gr	graphite
Gyp	gypsum
Mar	marcasite
Sid	siderite
Silv	native silver
Sph	sphalerite
Stb	stibnite
Talc	talc
Tet	tetrahedrite

Oxides

AZUR	azurite
CHALC	chalcanthite
GOET	goethite
HISS	hissingerite
HM	hematite
JAR	jarosite
LMT	limonite
MAL	malachite
SC	scorodite

Ox style

BW	box work
DS	disseminated
FC	fracture coating
GS	gossan
PRV	pervasive
RM	rims
RP	replacement
VG	vug filling or coating
VN	veins

Structure

BD	bedded
BN	banded
BZ	broken zone
CONTD	contorted
CTC	contact
FA	fold axis
FLT	faulted
FO	foliated
FOLD	folding
FR	fractured
FZ	fault zone
SHFAB	shear_fabric
STN	stringers-non planar
Sz	shear zone
VN	vein > 5 cm
VNLT	veinlet planar < 5 cm

Alt. intensity

1	weak
2	weak to moderate
3	moderate
4	strong
5	very strong

Ox intensity

MOD	moderate
ST	strong
VST	very strong
WK	weak

Alt style

BdC	bedding_controled
FCN	fracture controlled
FrC	fracture coating
PV	pervasive
SEL	selvages
SPO	spotty

Redox state

oxide	oxide zone
mixed	mixed oxide & reduced
reduc	reduced zone

Yukon-Nevada Gold Corp.
KETZA RIVER PROJECT

Core Logging Codes