

	Borehole	Sample	Mineral	Analysis	
1	Arthrath prospect	AD25	ATD-34	Bi-merenskyite	atd34g4
2	Arthrath prospect	AD25	ATD-9	Bi-merenskyite	atd9a2
3	Arthrath prospect	AD25	ATD-34	Bi-merenskyite	atd34g12
4	Arthrath prospect	AD25	ATD-34	Bi-merenskyite	atd34g8b
5	Arthrath prospect	AD25	ATD-34	Bi-merenskyite	atd34g7
6	Arthrath prospect	AD25	ATD-33	Bi-merenskyite	atd33g7
7	Arthrath prospect	AD25	ATD-34	Bi-merenskyite	atd34g6
8	Arthrath prospect	AD25	ATD-33	Bi-merenskyite	atd33g6
9	Arthrath prospect	AD25	ATD-33	Bi-merenskyite	atd33g3
10	Arthrath prospect	AD25	ATD-10	Bi-merenskyite	atd10a5
11	Arthrath prospect	AD25	ATD-9	Bi-merenskyite	atd9a4
12	Arthrath prospect	AD25	ATD-33	Bi-melonite	atd33g4
13	Arthrath prospect	AD25	ATD-34	Bi-merenskyite	atd34g9b
14	Arthrath prospect	AD25	ATD-20	Bi-merenskyite	atd20g1
15	Arthrath prospect	AD25	ATD-20	Bi-merenskyite	atd20g3
16	Arthrath prospect	AD25	ATD-33	Bi-merenskyite	atd33g1
17	Arthrath prospect	AD25	ATD-20	Bi-merenskyite	atd20g2
18	Arthrath prospect	AD25	ATD-34	Bi-rich merenskyite	atd3g6b
19	Arthrath prospect	AD25	ATD-21	Bi-rich merenskyite	atd21g1
20	Arthrath prospect	AD25	ATD-21	Bi-rich merenskyite	atd21g2
21	Arthrath prospect	AD25	ATD-36	Bi-rich merenskyite	atd36g3
22	Arthrath prospect	AD25	ATD-10	Bi-Te alloy (Bi ₉ Te ₁₀)	atd10a3a
23	Arthrath prospect	AD25	ATD-10	?hessite	atd10a3b
24	Arthrath prospect	AD25	ATD-34	hessite	atd34g3
25	Arthrath prospect	AD24	ATD-41	Bi-merenskyite	atd41g14
26	Arthrath prospect	AD24	ATD-43	Bi-merenskyite	atd43g5
27	Littlemill prospect	RD20	LMD-24	michenerite	lmd24g6b
28	Littlemill prospect	RD7	LMD-25	froodite	lmd25g10
29	Littlemill prospect	RD7	LMD-25	froodite	lmd25g23
30	Littlemill prospect	RD7	LMD-25	froodite	lmd25g39c
31	Littlemill prospect	RD7	LMD-25	Niccolite	lmd25g15
32	Littlemill prospect	RD7	LMD-25	Native gold	lmd25g15
33	Littlemill prospect	RD7	LMD-25	Native gold	lmd25g20
34	Littlemill prospect	RD7	LMD-25	Native gold	lmd25g24
35	Littlemill prospect	RD7	LMD-25	Native gold	lmd25g39
36	Littlemill prospect	RD7	LMD-25	Bismith	lmd25g20b
37	Littlemill prospect	RD7	LMD-25	Bismith	lmd25g9

Comment	wt %												
	As	Os	Rh	Ir	Pt	Au	S	Bi	Ru	Pd	Ag	Sb	Te
FeS contamination	0.00	0.07	0.00	0.03	0.14	0.00	2.48	16.56	0.02	20.53	na	0.23	41.38
FeS contamination	0.00	0.24	0.00	0.10	0.00	0.00	1.84	19.41	0.05	20.09	0.41	0.47	53.80
FeS contamination	0.00	0.03	0.00	0.03	0.18	0.00	1.77	12.32	0.09	18.51	na	0.34	55.96
FeS contamination	0.00	0.05	0.00	0.02	0.14	0.00	0.07	16.35	0.03	20.59	na	0.40	57.33
FeS contamination	0.00	0.00	0.00	0.03	0.19	0.00	2.16	12.48	0.00	19.62	na	0.34	57.30
FeS contamination	0.00	0.06	0.00	0.00	0.25	0.00	0.11	16.05	0.05	19.63	na	0.40	57.65
FeNiScontamination	0.00	0.19	0.00	0.06	0.39	0.00	0.04	16.79	0.03	21.59	na	0.37	55.82
FeS contamination	0.00	0.05	0.00	0.00	0.29	0.00	0.10	11.76	0.03	19.60	na	0.37	61.87
	0.00	0.05	0.00	0.03	0.24	0.00	0.00	11.46	0.00	21.59	na	0.36	61.82
FeS contamination, low total	0.00	0.00	0.00	0.02	0.00	0.00	3.27	14.61	0.05	19.08	0.54	0.27	49.18
No contamination	0.01	0.00	0.00	0.00	0.00	0.00	0.00	16.75	0.04	20.23	0.84	0.40	57.30
	0.00	0.02	0.00	0.00	0.20	0.00	0.00	16.24	0.03	9.46	na	0.37	62.35
FeS contamination	0.00	0.00	0.00	0.02	0.20	0.00	0.01	14.05	0.04	21.64	na	0.33	59.63
	0.00	0.00	0.00	0.09	0.00	na	0.00	12.95	0.00	17.99	na	0.69	61.55
	0.00	0.00	0.00	0.01	0.00	na	0.00	9.60	0.02	15.93	na	0.59	66.14
	0.00	0.03	0.00	0.06	0.14	0.00	0.00	14.34	0.09	24.08	na	0.38	52.24
FeS contamination	0.02	0.04	0.00	0.00	0.00	na	0.38	10.49	0.05	18.16	na	0.62	64.10
FeNiScontamination	0.00	0.44	0.00	0.00	0.23	0.00	0.62	39.63	0.01	22.40	na	0.23	33.72
FeS contamination	0.00	0.46	0.00	0.03	0.03	na	1.43	38.78	0.00	22.71	na	0.46	33.10
?FeS contamination	0.00	0.51	0.00	0.00	0.00	na	0.09	38.67	0.01	23.65	na	0.55	34.83
	0.00	0.49	0.00	0.00	0.01	0.00	0.02	41.95	0.03	24.34	na	0.29	33.72
	0.01	0.59	0.00	0.00	0.00	0.00	0.04	58.12	0.02	0.00	0.14	0.27	39.57
	0.00	0.00	0.00	0.00	0.00	0.00	0.27	9.51	0.03	0.05	48.41	0.28	37.13
FeS, FeCuS contamination	0.00	0.00	0.01	0.04	0.13	0.00	1.99	0.11	0.00	0.01	58.46	0.28	35.71
FeNiS contamination	0.00	0.06	0.00	0.01	0.40	0.00	0.89	7.96	0.00	17.17	na	0.42	64.31
FeS contamination	0.00	0.19	0.00	0.00	0.19	0.00	1.66	19.01	0.00	23.04	4.07	0.31	49.92
	0.14	0.41	0.00	0.00	0.00	na	0.03	36.32	0.06	23.02	na	6.25	31.27
?sulphide	0.01	1.00	0.00	0.00	0.08	na	0.37	78.11	0.11	19.68	na	0.00	0.00
low total	0.03	0.87	0.00	0.00	0.07	na	0.05	73.51	0.10	16.04	na	0.03	0.00
low total	0.02	1.00	0.00	0.03	0.15	na	0.00	73.65	0.14	16.86	na	0.10	0.11
	54.01	0.00	0.00	0.03	0.04	na	0.13	0.03	0.00	0.00	na	2.30	0.01
	na	na	na	na	na	90.41	0.07	na	na	0.00	5.37	na	na
	na	na	na	na	na	87.65	0.11	na	na	0.00	7.04	na	na
	na	na	na	na	na	88.49	0.10	na	na	0.00	6.62	na	na
	na	na	na	na	na	73.91	0.16	na	na	0.00	19.88	na	na
	0.01	1.19	0.00	0.00	0.00	na	0.05	96.45	0.09	0.00	na	0.08	0.00
	0.02	1.36	0.00	0.00	0.00	na	0.03	96.94	0.17	0.00	na	0.08	0.04

raw data corrected for sulphide contamination
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BH	Sample	Depth*
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ARTHRATH MINERALISED

AD25	ATD1001	39.1
AD25	ATD1002	40.6
AD25	ATD1003	48.1
AD25	ATD1004	54.8
AD25	ATD1005	61.3
AD25	ATD1006	69.5
AD25	ATD1033	73
AD25	ATD1007	83.8
AD25	ATD1008	87.6
AD25	ATD1009	95.4
AD25	ATD1010	96.7
AD25	ATD1011	102.7
AD25	ATD1012	104.6
AD25	ATD1013	109.4
AD25	ATD1014	116.5
AD25	ATD1016	121.5
AD25	ATD1017	125.6
AD25	ATD1018	127.7
AD25	ATD1019	131.8
AD25	ATD1020	136.3
AD25	ATD1021	140.3
AD25	ATD1022	144.5
AD25	ATD1023	149.2
AD25	ATD1024	153.1
AD25	ATD1025	160.7
AD25	ATD1027	177.2
AD25	ATD1028	179.3
AD25	ATD1029	186.8
AD25	ATD1030	192.4
AD24	ATD41	133.6
AD24	ATD42	154.9
AD24	ATD43	165.5
AD24	ATD44	237

ARTHRATH "UNMINERALISED"

AD25	ATD1015	119.7
AD25	ATD1026	169.7
AD25	ATD1031	210.8
AD25	ATD1032	216.7
AD25	ATD25	244
AD25	ATD26	254.7
AD25	ATD27	285.2
AD25	ATD40	287.5
AD25	ATD28	305
AD25	ATD29	330.5
AD25	ATD30	332.2

AD25	ATD31	341.7
AD25	ATD32	347.5

LITTLEMILL MINERALISED

RD7	LMD117	50.6
RD7	LMD118	51.8
RD7	LMD119	52.9
RD7	LMD120	55
RD7	LMD121	57.7
RD7	LMD122	58.3
RD7	LMD124	65.4
RD7	LMD125	67.8
RD7	LMD126	83.5
RD7	LMD128	107.6
RD20	LMD131	118
RD20	LMD132	118.9
RD20	LMD133	129.1
RD20	LMD134	136.8
RD20	LMD135	138.5
RD20	LMD138	162.3
RD22	LMD102	135.3
RD22	LMD105	149.5
RD22	LMD106	150.9
RD22	LMD107	153
RD22	LMD108	153.8
RD22	LMD109	154.1
RD22	LMD110	156.1
RD22	LMD111	158.8
RD22	LMD112	159.7
RD22	LMD114	170.9

LITTLEMILL "UNMINERALISED"

RD7	LMD115	45.3
RD7	LMD116	47.8
RD7	LMD123	62.1
RD7	LMD127	105.5
RD7	LMD129	138.5
RD20	LMD130	34
RD20	LMD136	148.7
RD20	LMD137	150.7
RD22	LMD101	111.6
RD22	LMD103	144.3
RD22	LMD104	146.7
RD22	LMD113	160.5

Notes: Depth* = mid-point of a 10-60 cm interval; x = analysis performed

Description (rock type(s); sulphide texture)	Volume % sulphide
gabbroic to pyroxenitic; mainly on fractures	2
gabbroic; blebby	3
gabbroic; blebby	4
gabbroic; patchy + blebby	3
gabbroic; blebby	4
gabbroic; blebby	5
gabbroic; blebby	5
gabbroic; blebby	5
gabbroic; blebby	6
gabbroic; blebby	6
metasedimentary, hornfelsed; patchy + streaky	1
gabbroic; blebby + streaky	8
gabbroic; blebby	7
gabbroic to pyroxenitic; sub-massive to massive	30
gabbroic; blebby + patchy	5
gabbroic; blebby + patchy	7
gabbroic; disseminated	3
granitic veining; mainly on fractures	1
gabbroic; blebby	4
gabbroic; blebby	4
gabbroic; disseminated	4
gabbroic; disseminated	1
gabbroic; blebby and spotty	2
granitic veining	2
gabbroic; patchy to sub-massive to massive	5
gabbroic, granitic veining; sub-massive to massive	10
gabbroic; disseminated to massive	75
gabbroic; disseminated	1
metasedimentary (hornfelsed) and gabbroic; patchy	2
gabbroic; interstitial to sub-massive	10
gabbroic; sub-massive	10
gabbroic; interstitial to sub-massive	5
gabbroic; sub-massive	10
granitic veining	tr
metasedimentary, hornfelsed, magnetic	tr
gabbroic; disseminated	tr
olivine gabbroic, magnetic	tr
tonalitic	0
olivine gabbroic; interstitial	tr
hydrothermal rock	0
hydrothermal rock	0
olivine gabbroic	tr
olivine gabbroic	tr
micaceous hydrothermal rock	0

olivine gabbroic	tr
micaceous hydrothermal rock	0
gabbroic; massive to breccia to vein	50
gabbroic; massive to breccia	80
gabbroic; massive to disseminated to banded	40
gabbroic; interstitial to fracture-filling	<5
gabbroic; massive	90
gabbroic; massive to blebby	90
banded, metasedimentary; disseminated to fracture-filling	5
banded, metasedimentary; disseminated to fracture-filling	<5
banded, metasedimentary; streaky to blebby	2
metasedimentary; blebby to disseminated to fracture-filling	5
gabbroic; massive to banded	30
gabbroic; massive to breccia	80
gabbroic; banded	5
gabbroic; banded to blebby	10
gabbroic; massive to banded	60
gabbroic; disseminated	<5
gabbroic, banded; interstitial	<5
banded, gabbroic and calc-silicate; banded to massive	10
gabbroic; submassive to disseminated to vein	20
gabbroic; massive to disseminated	80
gabbroic; blebby to vein	10
gabbroic; massive	80
gabbroic; banded to breccia	30
gabbroic; banded to massive	40
gabbroic; massive to brecciated	80
gabbroic; interstitial to vein	5
gabbroic	0
banded, gabbroic and metasedimentary; late fractures	tr
gabbroic; disseminated	tr
gabbroic; disseminated	tr
gabbroic; mainly on late fractures	tr
gabbroic; interstitial	tr
gabbroic; disseminated to late fracture-filling	tr
gabbroic; disseminated to late fracture-filling	tr
gabbroic, amphibolitised; interstitial	tr
gabbroic	0
gabbroic and metasedimentary; interstitial to fracture-filling	tr
gabbroic; interstitial to fracture-filling	tr

Geochemistry Petrography Mineral chemistry Automated searching for PGM

X	-	-	-
X	X	X	-
X	-	-	-
X	-	-	-
X	X	X	-
X	-	-	-
X	X	-	-
X	-	-	-
X	X	-	-
X	X	X	-
X	-	-	-
X	X	X	X
X	-	-	-
X	X	X	X
X	-	-	-
X	X	X	X
X	X	-	X
X	-	-	-
X	X	-	-
X	X	-	-
X	X	-	-
X	X	-	-
X	X	X	X
X	X	X	X
X	X	-	X
X	-	-	-
X	X	-	-
-	X	-	X
-	X	-	X
-	X	-	X
-	X	-	X
X	X	-	-
X	-	-	-
X	-	-	-
X	-	-	-
-	X	-	-
-	X	X	-
-	X	-	-
-	X	-	-
-	X	-	-
-	X	-	-
-	X	-	-

Littlemill prospect

Code	No.	BH	Depth (m)			Au (ppb)	Pt (ppb)	Pd (ppb)	Pd/Pt	Pt+Pd
			From	To						
LMD	101	RD22	111.40	111.80		< 2	< 2	< 2		
LMD	102	RD22	135.00	135.50		3	3	< 2		
LMD	103	RD22	144.00	144.50		< 2	2	< 2		
LMD	104	RD22	146.50	146.91		2	2	< 2		
LMD	105	RD22	149.30	149.65		2	3	7	2.3	10
LMD	106	RD22	150.70	151.15		7	13	8	0.6	21
LMD	107	RD22	152.95	153.10		15	2	23	11.5	25
LMD	108	RD22	153.75	153.85		6	5	7	1.4	12
LMD	109	RD22	154.00	154.20		61	2	105	52.5	107
LMD	110	RD22	156.00	156.20		8	2	34	17.0	36
LMD	111	RD22	158.60	158.95		2	418	33	0.1	451
LMD	112	RD22	159.60	159.75		5	3	22	7.3	25
LMD	113	RD22	160.20	160.75		< 2	2	< 2		
LMD	114	RD22	170.80	171.00		53	34	47	1.4	81
LMD	115	RD7	45.10	45.50		< 2	< 2	< 2		
LMD	116	RD7	47.6	48.00		9	5	4	0.8	9
LMD	117	RD7	50.45	50.8		34	22	12	0.5	34
LMD	118	RD7	51.60	51.95		2669	< 2	101		
LMD	119	RD7	52.70	53.1		8	4	11	2.8	15
LMD	120	RD7	54.80	55.15		7	7	2	0.3	9
LMD	121	RD7	57.4	57.9		14	2	39	19.5	41
LMD	122	RD7	58.15	58.35		13	< 2	36		
LMD	123	RD7	61.80	62.40		4	< 2	19		
LMD	124	RD7	65.2	65.60		27	3	43	14.3	46
LMD	125	RD7	67.65	67.9		16	7	10	1.4	17
LMD	126	RD7	83.20	83.75		12	2	5	2.5	7
LMD	127	RD7	105.3	105.7		12	9	8	0.9	17
LMD	128	RD7	107.35	107.85		22	4	17	4.3	21
LMD	129	RD7	138.20	138.70		< 2	< 2	< 2		
LMD	130	RD20	33.75	34.2		< 2	< 2	< 2		
LMD	131	RD20	117.8	118.10		4	4	82	20.5	86
LMD	132	RD20	118.80	119.05		13	< 2	42		
LMD	133	RD20	128.95	129.30		28	12	19	1.6	31
LMD	134	RD20	136.70	136.85		11	3	30	10.0	33
LMD	135	RD20	138.35	138.60		12	< 2	46		
LMD	136	RD20	148.5	148.95		25	15	27	1.8	42
LMD	137	RD20	150.5	150.8		27	7	18	2.6	25
LMD	138	RD20	162.15	162.5		24	5	19	3.8	24

Arthrath prospect

Code	No.	BH	Depth (m)			Au (ppb)	Pt (ppb)	Pd (ppb)	Pd/Pt	Pd+Pt (ppb)
			From	To						
ATD	1001	AD25	38.8	39.4		4	6	11	1.8	17
ATD	1002	AD25	40.27	41		13	2	20	10.0	22
ATD	1003	AD25	47.7	48.5		8	8	16	2.0	24
ATD	1004	AD25	54.56	55		8	11	16	1.5	27
ATD	1005	AD25	61	61.5		10	11	20	1.8	31

ATD	1006	AD25	69.25	69.75
ATD	1033	AD25	72.7	73.3
ATD	1007	AD25	83.55	84
ATD	1008	AD25	87.3	87.85
ATD	1009	AD25	95.1	95.6
ATD	1010	AD25	96.4	97
ATD	1011	AD25	102.3	103
ATD	1012	AD25	104.3	104.9
ATD	1013	AD25	109	109.7
ATD	1014	AD25	116.15	116.9
ATD	1015	AD25	119.45	120
ATD	1016	AD25	121.25	121.8
ATD	1017	AD25	125.3	125.85
ATD	1018	AD25	127.45	128
ATD	1019	AD25	131.6	132
ATD	1020	AD25	136	136.5
ATD	1021	AD25	140.1	140.45
ATD	1022	AD25	144.2	144.7
ATD	1023	AD25	148.9	149.4
ATD	1024	AD25	152.8	153.3
ATD	1025	AD25	160.4	161
ATD	1026	AD25	169.4	169.95
ATD	1027	AD25	177	177.4
ATD	1028	AD25	179.2	179.35
ATD	1029	AD25	186.66	187
ATD	1030	AD25	192.1	192.65
ATD	1031	AD25	210.51	211
ATD	1032	AD25	216.45	217

9	7	13	1.9	20
11	8	12	1.5	20
18	15	23	1.5	38
19	15	22	1.5	37
2	4	17	4.3	21
57	42	207	4.9	249
37	22	17	0.8	39
25	47	99	2.1	146
10	2	20	10.0	22
< 2	< 2	< 2		
6	< 2	18		
13	12	39	3.3	51
4	3	9	3.0	12
28	20	26	1.3	46
7	2	9	4.5	11
14	4	30	7.5	34
2	5	12	2.4	17
6	7	13	1.9	20
8	7	17	2.4	24
12	35	95	2.7	130
< 2	6	12	2.0	18
21	2	85	42.5	87
31	2	456	228.0	458
< 2	< 2	2		
< 2	28	20	0.7	48
< 2	< 2	< 2		
< 2	< 2	< 2		
6	11	15	1.4	26

Fe2O3 (%)	V (ppm)	Cr (ppm)	Co (ppm)	Ni (ppm)	Cu (ppm)	Cu/ Cu+Ni	Zn (ppm)	As (ppm)
10.60	188	157	33	10	67	0.87	78	<1
8.14	209	201	28	8	29	0.78	64	2
8.75	212	293	26	19	29	0.60	79	<1
10.43	241	486	35	188	45	0.19	129	4
22.62	140	458	634	8110	1774	0.18	119	10
20.86	186	285	302	3530	2910	0.45	158	5
40.56	97	351	680	15150	2220	0.13	148	7
22.31	125	356	205	2160	25600	0.92	125	3
43.44	90	210	1210	24350	1774	0.07	160	31
24.98	202	416	853	9310	2780	0.23	177	18
33.99	61	315	1060	22370	1750	0.07	165	92
46.58	67	170	1620	33480	681	0.02	238	43
7.06	182	371	28	87	159	0.65	59	<1
15.63	199	590	131	2500	5800	0.70	104	22
11.54	153	92	31	11	24	0.69	92	<1
8.76	163	657	86	1223	347	0.22	82	6
29.70	136	432	550	8930	11900	0.57	213	14
38.88	92	210	1130	20050	11670	0.37	144	15
37.71	104	211	1070	18440	6040	0.25	151	17
16.17	198	405	193	2064	1672	0.45	126	5
47.36	49	176	1990	33280	18410	0.36	37	28
47.38	58	160	1620	28360	7510	0.21	103	31
9.84	180	292	37	82	62	0.43	77	<1
11.90	286	451	112	670	633	0.49	128	11
10.25	199	431	91	549	571	0.51	118	10
8.84	268	235	27	81	122	0.60	172	5
11.58	261	460	99	654	347	0.35	97	<1
16.37	437	282	151	1086	1170	0.52	166	6
7.84	266	303	25	23	10	0.30	71	<1
8.12	154	531	38	88	29	0.25	58	<1
35.77	66	304	1130	22240	3590	0.14	101	41
38.14	113	285	1340	25960	3970	0.13	142	35
7.97	212	869	33	664	163	0.20	95	163
31.68	138	278	1040	1961	3540	0.64	146	35
40.00	112	218	1890	3339	1329	0.28	103	66
10.86	142	507	146	1115	812	0.42	79	15
12.36	198	669	168	1379	935	0.40	95	12
12.46	183	555	153	1164	1034	0.47	92	10

Fe2O3 (%)	V (ppm)	Cr (ppm)	Co (ppm)	Ni (ppm)	Cu (ppm)	Cu/ Cu+Ni	Zn (ppm)	As (ppm)
12.50	117	873	154	1518	546	0.265	79	<1
15.81	110	951	160	2640	1640	0.383	84	<1
16.18	125	1114	229	2168	1095	0.336	95	<1
10.98	67	449	134	1661	1192	0.418	59	<1
14.11	118	1190	149	1375	1146	0.455	82	<1

14.94	138	1033	152	1299	1064	0.450	93	<1
13.02	113	1205	134	1292	956	0.425	77	<1
17.33	125	1305	150	2190	1890	0.463	89	<1
16.56	127	1161	150	2010	1830	0.477	91	<1
14.14	222	507	119	1018	268	0.208	100	2
26.46	81	567	420	8470	5920	0.411	74	1
17.29	110	748	170	2460	3240	0.568	83	<1
34.72	82	772	740	12550	3060	0.196	102	<1
14.72	114	1160	179	3720	1581	0.298	92	1
2.22	11	220	12	142	76	0.349	16	141
14.71	108	1048	193	2235	834	0.272	80	<1
16.87	109	471	210	3720	1840	0.331	80	21
9.27	77	902	106	968	729	0.430	70	<1
18.43	116	1059	170	2710	3040	0.529	96	<1
10.90	80	505	123	1653	1527	0.480	65	<1
16.72	87	524	180	3520	1460	0.293	75	<1
13.32	121	1055	133	1324	785	0.372	85	<1
10.45	79	630	111	1179	876	0.426	62	<1
10.58	70	409	136	1519	1093	0.418	62	<1
19.06	86	444	340	5340	2620	0.329	68	<1
13.96	298	329	58	131	266	0.670	111	<1
21.84	74	249	370	7130	3430	0.325	60	3
40.25	50	147	980	16940	4140	0.196	40	4
8.54	138	618	47	136	89	0.396	66	<1
12.46	118	283	144	1793	627	0.259	65	<1
7.62	112	1014	45	126	45	0.263	54	<1
12.80	86	1241	118	381	34	0.082	82	<1
15.50	135	1196	168	1388	1165	0.456	93	<1

Rb (ppm)	Sr (ppm)	Y (ppm)	Zr (ppm)	Nb (ppm)	Mo (ppm)	Ag (ppm)	Sb (ppm)	Ba (ppm)
33	216	28	180	15	3	1	1	106
12	247	16	59	4	<1	<1	<1	96
28	223	23	82	6	1	<1	<1	191
21	179	9	224	12	5	<1	<1	227
12	146	9	130	8	10	<1	1	212
13	187	16	58	6	2	1	2	126
<1	29	7	23	2	10	2	2	16
21	164	16	63	5	4	3	2	146
<1	41	4	24	3	9	<1	4	18
27	161	13	131	9	5	<1	<1	271
6	40	3	30	3	11	<1	<1	43
<1	13	<1	17	2	10	2	4	7
8	209	16	82	5	1	<1	<1	162
19	168	18	64	5	2	<1	3	164
8	258	23	73	6	1	<1	<1	167
24	136	17	134	6	15	<1	1	239
16	69	7	102	5	10	1	1	147
7	71	4	22	2	16	2	3	51
5	82	4	26	2	13	<1	3	41
15	167	15	56	4	3	<1	<1	86
<1	4	<1	3	<1	26	3	4	11
<1	4	<1	8	<1	25	2	4	10
14	217	24	89	5	1	<1	2	74
54	101	19	97	9	22	<1	<1	309
78	120	19	110	8	20	<1	3	298
74	134	17	90	13	10	1	1	347
34	154	15	74	5	10	<1	<1	131
13	85	17	30	3	33	<1	2	75
15	296	12	70	5	2	<1	<1	116
8	228	10	43	3	<1	<1	<1	61
7	43	4	31	3	25	1	2	73
5	90	8	55	4	19	1	4	86
15	151	8	234	6	13	<1	<1	111
6	112	13	137	7	7	<1	2	79
10	56	4	93	8	8	<1	5	72
62	127	21	96	8	19	<1	1	342
46	98	17	76	6	21	1	<1	261
53	139	22	140	10	19	<1	2	319

Rb (ppm)	Sr (ppm)	Y (ppm)	Zr (ppm)	Nb (ppm)	Ag (ppm)	Sb (ppm)	Ba (ppm)	La (ppm)
15	169	4	27	2	<1	<1	83	<6
10	142	3	16	<1	2	1	57	<6
10	96	5	23	2	1	<1	57	<6
10	288	3	24	3	<1	1	66	<6
11	122	5	25	3	<1	1	62	6

17	111	8	35	4	1	1	78	<6
9	148	4	27	3	1	2	60	<6
7	97	6	29	3	2	1	57	<6
11	124	6	37	4	1	1	72	<6
2	428	2	15	2	1	3	247	<6
3	158	2	18	2	4	3	50	<6
10	187	4	48	4	2	<1	85	<6
2	54	2	12	<1	3	1	33	<6
12	130	5	25	3	1	<1	64	<6
103	135	17	166	24	<1	38	251	59
12	142	3	28	3	1	1	56	<6
21	228	7	39	3	1	2	82	6
96	98	10	36	9	2	<1	126	9
7	121	5	31	2	1	1	52	<6
26	245	6	63	4	1	<1	186	7
9	265	2	30	2	<1	1	77	<6
10	168	5	39	3	1	<1	75	<6
6	243	2	20	2	1	1	53	<6
35	251	4	18	5	1	<1	97	<6
11	203	4	16	2	1	1	47	<6
1	560	2	8	2	1	<1	60	<6
31	163	6	59	6	1	3	142	12
3	91	<1	6	<1	2	4	14	<6
8	247	6	16	2	<1	2	65	<6
11	268	6	12	2	<1	1	50	<6
4	233	5	20	2	<1	<1	47	<6
5	109	5	25	2	<1	1	49	<6
18	80	5	29	3	<1	1	60	<6

La (ppm)	Ce (ppm)	Pb (ppm)	Bi (ppm)	As (ppm)	Sb (ppm)	Bi (ppm)	Se (ppm)	Te (ppm)
14	34	8	1	2.6	0.04	0.05	0.3	0.02
<6	<6	4	1	3.3	0.06	0.02	0.1	< .02
9	22	6	1	1.5	0.03	0.02	0.1	< .02
13	20	9	1	7.3	0.06	0.03	0.8	0.04
12	21	10	6	10.3	0.1	0.81	22.5	0.53
12	27	13	4	4.6	0.07	0.71	9	0.38
<6	15	5	11	2.9	0.14	1.7	45.4	0.94
9	18	15	5	2.6	0.07	0.79	13.7	0.4
<6	13	5	20	21	0.08	3.55	52.8	2.1
11	22	15	7	17.4	0.09	1.08	21.3	1.12
<6	15	5	13	103.8	0.15	1.51	48.8	1.15
<6	15	8	20	36.9	0.06	1.56	51.1	1.65
9	14	15	1	1.7	0.05	< .02	0.3	< .02
9	17	14	5	26.7	0.52	3.49	3.7	0.67
8	15	4	<1	0.8	0.02	< .02	0.2	< .02
13	31	11	2	8.3	0.07	0.33	4.3	0.3
14	21	14	9	12.2	0.22	1.89	30.6	0.89
<6	16	13	22	16.8	0.25	9.86	41.7	0.9
7	18	12	13	14.2	0.11	1.33	44	1.06
<6	12	15	2	4.9	0.08	0.64	4.3	0.27
7	8	<1	23	17.9	0.11	2	46	0.91
<6	13	2	20	18.3	0.14	1.94	50.7	0.86
<6	18	4	2	1.1	0.03	< .02	0.2	< .02
14	36	12	1	16.9	0.21	0.46	5.7	0.34
18	36	19	2	13.6	0.21	0.41	5.3	0.3
22	36	14	1	10.3	0.54	0.25	3.8	0.15
7	15	6	2	3.7	0.08	0.35	3.6	0.22
<6	19	4	3	7.9	0.21	0.56	9	0.37
<6	12	3	1	1.2	0.03	< .02	0.1	< .02
<6	<6	2	1	1	0.02	0.02	0.1	0.02
7	13	7	14	39.5	0.12	2.27	49.7	1.96
13	18	17	18	26.1	0.16	4.56	51.2	1.56
8	16	8	<1	233.2	0.29	0.3	1.2	0.31
10	20	8	13	42.5	0.43	2.44	43	1.23
13	25	5	20	64.7	0.1	5.18	78.2	3.09
15	29	21	1	16.5	0.29	0.46	6.2	0.37
13	32	12	2	13.1	0.26	0.63	8.3	0.48
14	34	11	2	14.2	0.27	0.57	7.6	0.47

Ce (ppm)	Nd (ppm)	Sm (ppm)	Pb (ppm)	Bi (ppm)	Th (ppm)	U (ppm)	As (ppm)	Sb (ppm)
<6	4	<2	9	3	2	<1	1.2	0.04
<6	<2	<2	24	3	3	<1	0.7	0.03
<6	<2	<2	9	3	<1	<1	0.1	< .02
<6	<2	<2	16	3	<1	<1	0.2	< .02
<6	3	<2	9	3	3	<1	< .1	< .02

<6	5	<2	11	2	3	<1	< .1	< .02
<6	<2	<2	12	2	2	<1	< .1	< .02
6	3	<2	19	5	2	<1	0.9	0.06
8	4	<2	18	4	2	<1	0.1	0.02
9	4	<2	15	2	2	<1	3.3	0.3
12	7	<2	17	9	<1	ND	< .1	< .02
7	2	<2	20	3	3	<1	0.1	< .02
<6	6	3	11	9	3	ND	< .1	< .02
<6	4	2	35	3	2	<1	< .1	< .02
123	50	8	41	<1	40	2	144.1	25.26
7	2	<2	33	3	2	<1	0.5	< .02
15	8	4	25	4	3	<1	22.4	0.81
7	5	<2	28	2	6	<1	1.7	0.11
<6	<2	3	22	3	1	<1	0.5	< .02
18	9	<2	20	3	5	<1	1.3	0.02
<6	5	<2	20	5	<1	<1	1	< .02
6	5	<2	23	3	2	<1	1	< .02
<6	3	<2	18	2	2	<1	1.5	< .02
7	4	<2	19	2	3	<1	1.8	0.02
<6	5	<2	10	4	3	<1	0.8	0.05
8	<2	<2	4	1	2	<1	0.3	0.02
29	13	<2	12	5	10	<1	2.1	0.06
11	6	<2	8	16	4	ND	< .1	< .02
<6	4	<2	3	<1	2	<1	0.6	< .02
<6	4	<2	7	2	2	<1	1.5	< .02
<6	<2	<2	1	1	1	<1	2.6	< .02
<6	<2	<2	2	2	2	<1	2.5	< .02
<6	<2	<2	6	4	2	<1	2.3	0.04

Total S (%)
0.24
0.11
0.08
0.22
9.64
3.06
18.5
5.47
23.5
9.17
18.2
24
0.14
1.38
0.11
1.45
12.3
21.9
19.9
1.45
33.4
26.6
0.06
2.48
2.78
2.37
2
4.62
0.08
0.11
19.4
19.6
0.38
14.7
26.1
2.93
3.52
3.41

Bi (ppm)	Se (ppm)	Te (ppm)	Total S (%)
0.64	2.5	0.54	1.49
0.77	5.2	1	3.43
0.52	3.7	0.49	2.26
0.64	3.7	0.52	2.16
0.81	3.1	0.63	1.78

0.87	2.8	0.53	1.61
1.06	2.8	0.58	1.61
2.2	5.9	1.27	3.12
1.64	4.9	1.13	2.75
0.56	1.9	0.44	1.11
3.51	18	2.96	11.54
1.34	5.3	0.54	3.8
3.5	26.3	1.99	16.1
1.23	4.2	0.94	2.4
0.13	0.2	0.04	0.11
1.06	4.4	0.83	2.63
1.34	8.7	1.79	4.41
0.36	1.9	0.29	1.23
1.11	4.8	0.82	3.4
0.77	3.2	0.56	2.04
1.03	7.5	1.08	4.49
0.66	2.4	0.4	1.48
0.48	2.3	0.33	1.45
0.52	3.5	0.42	2.17
0.86	10.3	1.18	7.57
0.04	0.7	0.11	0.29
1.16	11.5	1.2	8.6
3.96	42.5	4.71	21.3
0.03	0.1	0.03	0.1
0.32	4.2	0.43	2.23
< .02	0.2	< .02	0.08
< .02	0.2	< .02	0.05
1.63	2.9	1.19	1.94

	Borehole	Depth (m)	Sample	Mineral		wt% SiO2	TiO2	Al2O3
Arthrath prospect	AD25	41.9	ATD2	orthopyroxene #1		54.89	0.22	2.09
Arthrath prospect	AD25	41.9	ATD2	orthopyroxene #2		54.24	0.30	2.26
Arthrath prospect	AD25	41.9	ATD2	orthopyroxene #3		54.28	0.27	2.54
Arthrath prospect	AD25	41.9	ATD2	orthopyroxene #4		54.91	0.21	1.60
Arthrath prospect	AD25	41.9	ATD2	orthopyroxene #5		54.82	0.27	2.27
Arthrath prospect	AD25	41.9	ATD2	orthopyroxene #6		55.21	0.21	2.03
Arthrath prospect	AD25	41.9	ATD2	orthopyroxene #7		54.93	0.26	2.42
Arthrath prospect	AD25	41.9	ATD2	orthopyroxene #8		54.97	0.19	1.51
Arthrath prospect	AD25	41.9	ATD2	orthopyroxene #9		54.14	0.21	2.41
Arthrath prospect	AD25	41.9	ATD2	orthopyroxene #10		54.71	0.26	2.06
Arthrath prospect	AD25	62.6	ATD5	orthopyroxene #11		53.88	0.19	1.76
Arthrath prospect	AD25	62.6	ATD5	orthopyroxene #14		54.01	0.16	2.00
Arthrath prospect	AD25	62.6	ATD5	orthopyroxene #15		54.69	0.15	1.48
Arthrath prospect	AD25	62.6	ATD5	orthopyroxene #16		54.12	0.17	1.78
Arthrath prospect	AD25	62.6	ATD5	orthopyroxene #17		53.79	0.22	1.78
Arthrath prospect	AD25	62.6	ATD5	orthopyroxene #18		53.87	0.16	1.56
Arthrath prospect	AD25	92.45	ATD8	orthopyroxene #1		53.96	0.23	1.92
Arthrath prospect	AD25	92.45	ATD8	orthopyroxene #2		54.98	0.16	1.68
Arthrath prospect	AD25	92.45	ATD8	orthopyroxene #3		54.99	0.19	1.96
Arthrath prospect	AD25	92.45	ATD8	orthopyroxene #4		54.35	0.25	1.94
Arthrath prospect	AD25	92.45	ATD8	orthopyroxene #5		54.57	0.17	1.84
Arthrath prospect	AD25	92.45	ATD8	orthopyroxene #6		54.44	0.64	1.52
Arthrath prospect	AD25	92.45	ATD8	orthopyroxene #7		54.09	0.19	2.16
Arthrath prospect	AD25	92.45	ATD8	orthopyroxene #8		53.02	0.30	1.87
Arthrath prospect	AD25	103	ATD9	orthopyroxene #2		54.99	0.16	1.46
Arthrath prospect	AD25	103	ATD9	orthopyroxene #6		54.37	0.30	2.19
Arthrath prospect	AD25	103	ATD9	orthopyroxene #7		54.38	0.25	1.78
Arthrath prospect	AD25	103	ATD9	clinopyroxene #3		52.12	0.50	2.62
Arthrath prospect	AD25	103	ATD9	clinopyroxene #4		53.24	0.39	1.77
Arthrath prospect	AD25	103	ATD9	clinopyroxene #5		53.13	0.54	2.70
Arthrath prospect	AD25	103	ATD9	clinopyroxene #8		52.29	0.68	3.07
Arthrath prospect	AD25	103	ATD9	clinopyroxene #9		52.39	0.46	2.59
Arthrath prospect	AD25	109.4	ATD10	orthopyroxene #1		53.04	0.17	2.01
Arthrath prospect	AD25	109.4	ATD10	orthopyroxene #2		53.83	0.09	1.51
Arthrath prospect	AD25	109.4	ATD10	orthopyroxene #5		53.96	0.20	1.76
Arthrath prospect	AD25	109.4	ATD10	orthopyroxene #9		53.99	0.20	1.88
Arthrath prospect	AD25	109.4	ATD10	orthopyroxene #10		53.96	0.11	1.78
Arthrath prospect	AD25	109.4	ATD10	orthopyroxene #11		54.12	0.12	1.73
Arthrath prospect	AD25	109.4	ATD10	orthopyroxene #13		53.73	0.07	1.77
Arthrath prospect	AD25	109.4	ATD10	orthopyroxene #14		53.86	0.17	1.63
Arthrath prospect	AD25	109.4	ATD10	clinopyroxene #4		51.67	0.40	2.55
Arthrath prospect	AD25	109.75	ATD11	orthopyroxene #1		54.11	0.18	1.45
Arthrath prospect	AD25	109.75	ATD11	orthopyroxene #2		54.56	0.23	1.65
Arthrath prospect	AD25	109.75	ATD11	orthopyroxene #3		54.01	0.24	2.25
Arthrath prospect	AD25	109.75	ATD11	orthopyroxene #4		53.87	0.23	2.33
Arthrath prospect	AD25	109.75	ATD11	orthopyroxene #5		54.71	0.20	2.13
Arthrath prospect	AD25	109.75	ATD11	orthopyroxene #6		54.92	0.18	1.57
Arthrath prospect	AD25	109.75	ATD11	orthopyroxene #7		54.34	0.21	1.57
Arthrath prospect	AD25	109.75	ATD11	orthopyroxene #8		53.70	0.22	1.81
Arthrath prospect	AD25	109.75	ATD11	orthopyroxene #9		53.81	0.23	1.58
Arthrath prospect	AD25	109.75	ATD11	orthopyroxene #10		53.66	0.25	2.05
Arthrath prospect	AD25	109.75	ATD11	orthopyroxene #11		53.92	0.08	1.76

Arthrath prospect	AD25	109.75	ATD11	clinopyroxene #12	50.64	0.56	3.06
Arthrath prospect	AD25	109.75	ATD11	clinopyroxene #13	52.00	0.63	3.53
Arthrath prospect	AD25	109.75	ATD11	clinopyroxene #14	52.56	0.37	1.57
Arthrath prospect	AD25	123.8	ATD13	orthopyroxene #15	53.20	0.10	1.62
Arthrath prospect	AD25	123.8	ATD13	orthopyroxene #16	53.81	0.17	1.60
Arthrath prospect	AD25	123.8	ATD13	orthopyroxene #20	53.30	1.12	1.45
Arthrath prospect	AD25	123.8	ATD13	clinopyroxene #17	52.13	0.55	2.55
Arthrath prospect	AD25	123.8	ATD13	clinopyroxene #18	51.72	0.58	2.25
Arthrath prospect	AD25	123.8	ATD13	clinopyroxene #19	51.99	0.51	2.49
Arthrath prospect	AD25	123.8	ATD13	clinopyroxene #22	52.74	0.32	1.45
Arthrath prospect	AD25	123.8	ATD13	clinopyroxene #23	53.00	0.29	1.69
Arthrath prospect	AD25	152.4	ATD18	orthopyroxene #1	54.08	0.55	1.54
Arthrath prospect	AD25	152.4	ATD18	orthopyroxene #2	53.97	0.19	1.59
Arthrath prospect	AD25	152.4	ATD18	orthopyroxene #3	54.80	0.17	1.62
Arthrath prospect	AD25	152.4	ATD18	orthopyroxene #4	54.02	0.15	1.83
Arthrath prospect	AD25	152.4	ATD18	orthopyroxene #5	54.58	0.13	1.32
Arthrath prospect	AD25	161.45	ATD19	orthopyroxene #4	54.47	0.23	1.86
Arthrath prospect	AD25	161.45	ATD19	orthopyroxene #5	54.78	0.30	2.19
Arthrath prospect	AD25	161.45	ATD19	orthopyroxene #6	54.49	0.11	1.93
Arthrath prospect	AD25	161.45	ATD19	orthopyroxene #7	55.03	0.14	1.42
Arthrath prospect	AD25	161.45	ATD19	orthopyroxene #8	54.01	0.70	1.86
Arthrath prospect	AD25	161.45	ATD19	clinopyroxene #9	52.38	0.64	2.52
Arthrath prospect	AD25	161.45	ATD19	clinopyroxene #10	52.79	0.46	2.42
Arthrath prospect	AD25	161.45	ATD19	clinopyroxene #1	52.96	0.49	2.81
Arthrath prospect	AD25	161.45	ATD19	clinopyroxene #2	52.29	0.62	2.72
Arthrath prospect	AD25	176.2	ATD20	orthopyroxene #11	55.19	0.20	1.24
Arthrath prospect	AD25	176.2	ATD20	clinopyroxene #15	52.18	0.36	1.23
Arthrath prospect	AD25	216.15	ATD24	orthopyroxene #11	53.86	0.29	2.56
Arthrath prospect	AD25	216.15	ATD24	orthopyroxene #12	54.15	0.28	2.57
Arthrath prospect	AD25	216.15	ATD24	orthopyroxene #13	54.34	0.30	2.17
Arthrath prospect	AD25	216.15	ATD24	orthopyroxene #14	53.10	0.33	2.98
Arthrath prospect	AD25	216.15	ATD24	orthopyroxene #16	54.38	0.20	2.77
Arthrath prospect	AD25	216.15	ATD24	clinopyroxene #9	51.28	0.44	2.60
Arthrath prospect	AD25	216.15	ATD24	clinopyroxene #10	50.89	0.71	3.34
Arthrath prospect	AD25	216.15	ATD24	clinopyroxene #15	48.77	1.45	6.49
Arthrath prospect	AD25	254.7	ATD26	orthopyroxene #11	54.47	0.25	2.42
Arthrath prospect	AD25	254.7	ATD26	orthopyroxene #12	54.08	0.21	3.06
Arthrath prospect	AD25	254.7	ATD26	orthopyroxene #14	54.60	0.24	2.47
Arthrath prospect	AD25	254.7	ATD26	orthopyroxene #16	54.29	0.23	2.88
Arthrath prospect	AD25	254.7	ATD26	clinopyroxene #9	51.48	0.65	3.31
Arthrath prospect	AD25	254.7	ATD26	clinopyroxene #10	51.99	0.59	3.34
Arthrath prospect	AD25	254.7	ATD26	clinopyroxene #13	52.55	0.48	2.69
Arthrath prospect	AD25	254.7	ATD26	clinopyroxene #15	51.80	0.57	2.95
Arthrath prospect	AD25	341.66	ATD31	clinopyroxene #13	50.40	0.77	2.99
Arthrath prospect	AD25	341.66	ATD31	clinopyroxene #17	49.33	1.12	3.85
Arthrath prospect	AD25	341.66	ATD31	orthopyroxene #14	54.03	0.35	1.30
Arthrath prospect	AD25	341.66	ATD31	orthopyroxene #15	53.23	0.25	2.72
Arthrath prospect	AD25	341.66	ATD31	orthopyroxene #16	52.79	0.40	1.38
Littlemill prospect	RD7	48	LMD1	orthopyroxene #1	48.96	0.11	0.79
Littlemill prospect	RD7	48	LMD1	orthopyroxene #2	49.48	0.12	1.03
Littlemill prospect	RD7	48	LMD1	orthopyroxene #3	49.53	0.14	1.04
Littlemill prospect	RD7	48	LMD1	orthopyroxene #5	50.48	0.10	0.61
Littlemill prospect	RD7	48	LMD1	orthopyroxene #6	49.46	0.15	0.75
Littlemill prospect	RD7	48	LMD1	orthopyroxene #7	50.04	0.07	0.54
Littlemill prospect	RD7	51.8	LMD25	orthopyroxene #1	50.08	0.22	0.90
Littlemill prospect	RD7	51.8	LMD25	orthopyroxene #2	50.24	0.25	1.16

Littlemill prospect	RD7	51.8	LMD25	orthopyroxene #3	50.27	0.13	0.83
Littlemill prospect	RD7	51.8	LMD25	orthopyroxene #5	51.05	0.16	0.83
Littlemill prospect	RD7	51.8	LMD25	clinopyroxene #4	51.49	0.26	1.02
Littlemill prospect	RD7	52.2	LMD2	orthopyroxene #8	50.62	0.18	0.88
Littlemill prospect	RD7	52.2	LMD2	orthopyroxene #9	50.62	0.19	0.81
Littlemill prospect	RD7	52.2	LMD2	orthopyroxene #11	50.74	0.20	0.85
Littlemill prospect	RD7	52.2	LMD2	orthopyroxene #13	50.71	0.15	0.76
Littlemill prospect	RD7	52.2	LMD2	orthopyroxene #16	50.76	0.15	1.07
Littlemill prospect	RD7	52.2	LMD2	orthopyroxene #17	50.71	0.21	0.83
Littlemill prospect	RD22	151.45	LMD12	clinopyroxene #1	52.07	0.17	0.79
Littlemill prospect	RD22	151.45	LMD12	orthopyroxene #2	50.38	0.21	0.74
Littlemill prospect	RD22	151.45	LMD12	orthopyroxene #3	50.59	0.15	0.73
Littlemill prospect	RD22	151.45	LMD12	orthopyroxene #4	50.32	0.19	0.72
Littlemill prospect	RD22	151.45	LMD12	orthopyroxene #5	50.18	0.18	0.65
Littlemill prospect	RD22	151.45	LMD12	orthopyroxene #6	50.24	0.17	0.72
Littlemill prospect	RD22	151.45	LMD12	orthopyroxene #7	50.34	0.15	0.51
Littlemill prospect	RD22	151.45	LMD12	orthopyroxene #8	49.62	0.23	0.90
Littlemill prospect	RD22	151.45	LMD12	orthopyroxene #9	50.46	0.13	0.95
Littlemill prospect	RD22	151.45	LMD12	orthopyroxene #10	49.88	0.19	0.66
Littlemill prospect	RD22	153.7	LMD16	orthopyroxene #12	49.35	0.16	0.63
Littlemill prospect	RD22	153.7	LMD16	orthopyroxene #13	49.54	0.10	0.62
Littlemill prospect	RD22	153.7	LMD16	orthopyroxene #14	49.64	0.08	0.88
Littlemill prospect	RD22	153.7	LMD16	orthopyroxene #15	49.73	0.15	0.61
Littlemill prospect	RD22	153.7	LMD16	orthopyroxene #16	49.92	0.09	0.94
Littlemill prospect	RD22	153.7	LMD16	orthopyroxene #17	49.86	0.12	0.55
Littlemill prospect	RD22	153.7	LMD16	orthopyroxene #18	49.98	0.13	0.63
Littlemill prospect	RD22	153.7	LMD16	orthopyroxene #19	49.26	0.16	0.99
Littlemill prospect	RD22	153.7	LMD16	orthopyroxene #20	48.99	0.16	0.61
Littlemill prospect	RD22	153.7	LMD16	orthopyroxene #21	48.98	0.05	0.60

Cr2O3	Fe2O3 (calculated)	MgO	CaO	MnO	FeO	Na2O	Total	Cations (6 O)		
								Si	Ti	Al
0.26	0.00	28.51	1.89	0.16	11.15	0.00	99.17	1.959	0.006	0.088
0.30	0.00	28.80	1.69	0.20	10.87	0.07	98.72	1.945	0.008	0.095
0.38	0.00	27.84	1.66	0.23	10.72	0.06	97.98	1.957	0.007	0.108
0.24	0.00	28.60	1.98	0.25	11.34	0.06	99.19	1.964	0.006	0.067
0.36	0.00	28.39	2.08	0.22	10.61	0.08	99.09	1.956	0.007	0.095
0.29	0.00	29.02	1.54	0.24	11.57	0.03	100.13	1.955	0.006	0.085
0.47	0.00	28.58	1.86	0.14	10.82	0.01	99.48	1.952	0.007	0.101
0.21	0.00	27.71	1.96	0.26	12.71	0.07	99.57	1.970	0.005	0.064
0.36	0.00	26.98	1.73	0.16	12.42	0.05	98.44	1.958	0.006	0.103
0.24	0.00	27.96	2.25	0.20	11.52	0.08	99.26	1.958	0.007	0.087
0.26	0.00	24.42	2.50	0.23	15.14	0.05	98.42	1.978	0.005	0.076
0.27	0.00	26.17	1.23	0.23	15.02	0.01	99.09	1.962	0.004	0.086
0.19	0.00	25.83	0.53	0.20	16.42	0.02	99.50	1.984	0.004	0.063
0.15	0.00	26.05	1.26	0.28	15.24	0.00	99.06	1.968	0.005	0.076
0.29	0.00	25.20	1.94	0.24	14.39	0.04	97.88	1.976	0.006	0.077
0.13	0.00	24.26	3.10	0.27	15.56	0.03	98.94	1.975	0.004	0.067
0.16	0.85	28.61	1.69	0.26	10.92	0.09	98.68	1.942	0.006	0.081
0.35	0.00	28.63	1.51	0.22	10.96	0.05	98.54	1.972	0.004	0.071
0.29	0.00	29.15	1.44	0.25	10.64	0.03	98.94	1.961	0.005	0.082
0.33	0.00	27.94	1.79	0.14	12.44	0.06	99.23	1.952	0.007	0.082
0.23	0.00	29.39	0.58	0.17	11.47	0.04	98.45	1.959	0.005	0.078
0.30	0.00	28.93	0.76	0.16	11.77	0.01	98.54	1.958	0.017	0.064
0.36	0.00	28.72	1.18	0.19	11.68	0.05	98.62	1.946	0.005	0.091
0.11	0.00	24.36	1.92	0.33	16.55	0.18	98.63	1.957	0.008	0.081
0.22	0.01	26.73	2.12	0.23	15.14	0.04	101.11	1.963	0.004	0.061
0.32	0.75	27.14	2.14	0.21	13.78	0.04	101.23	1.933	0.008	0.092
0.22	0.00	26.43	2.13	0.24	14.78	0.03	100.23	1.956	0.007	0.075
0.25	1.09	15.52	20.76	0.17	6.85	0.32	100.21	1.922	0.014	0.114
0.16	0.00	18.58	13.85	0.27	11.67	0.17	100.09	1.959	0.011	0.077
0.28	0.00	18.29	15.74	0.22	9.76	0.23	100.87	1.934	0.015	0.116
0.38	0.29	15.10	22.23	0.13	6.17	0.31	100.65	1.916	0.019	0.133
0.32	0.18	15.97	18.27	0.20	9.25	0.37	100.00	1.937	0.013	0.113
0.41	0.05	24.85	1.26	0.29	17.22	0.03	99.33	1.946	0.005	0.087
0.24	0.32	25.20	0.51	0.37	18.35	0.04	100.44	1.959	0.002	0.065
0.32	0.01	26.25	0.49	0.28	16.90	0.02	100.19	1.953	0.005	0.075
0.26	0.00	26.03	1.56	0.23	15.97	0.02	100.14	1.952	0.005	0.080
0.26	0.00	25.03	1.93	0.27	16.89	0.03	100.25	1.959	0.003	0.076
0.27	0.00	25.97	1.39	0.25	16.03	0.03	99.92	1.960	0.003	0.074
0.29	0.78	24.99	1.65	0.27	17.24	0.03	100.83	1.947	0.002	0.076
0.33	0.02	24.66	1.78	0.31	17.82	0.04	100.61	1.957	0.005	0.070
0.36	1.97	14.65	21.98	0.17	5.62	0.45	99.81	1.917	0.011	0.111
0.19	0.00	28.77	1.84	0.12	10.30	0.03	96.99	1.969	0.005	0.062
0.26	0.00	28.15	2.08	0.20	11.11	0.06	98.31	1.967	0.006	0.070
0.29	0.00	28.74	1.65	0.17	10.37	0.05	97.77	1.950	0.006	0.096
0.33	0.00	28.15	1.75	0.21	11.17	0.04	98.08	1.947	0.006	0.099
0.35	0.00	28.57	1.88	0.16	10.33	0.05	98.38	1.962	0.005	0.090
0.21	0.00	28.73	1.78	0.19	10.96	0.04	98.59	1.970	0.005	0.066
0.27	0.00	27.80	1.61	0.20	12.08	0.02	98.10	1.970	0.006	0.067
0.30	0.00	27.59	2.20	0.23	11.58	0.06	97.70	1.956	0.006	0.078
0.26	0.00	28.42	1.74	0.18	10.86	0.03	97.13	1.962	0.006	0.068
0.30	0.00	27.95	2.09	0.18	10.99	0.01	97.48	1.952	0.007	0.088
0.28	0.00	26.34	1.66	0.23	13.50	0.04	97.80	1.973	0.002	0.076

0.42	0.47	14.73	21.00	0.11	6.45	0.29	97.72	1.914	0.016	0.136
0.40	0.00	16.50	17.17	0.12	7.68	0.47	98.50	1.930	0.017	0.154
0.23	0.35	15.23	23.27	0.14	4.85	0.27	98.82	1.957	0.010	0.069
0.29	0.00	24.81	1.55	0.23	16.35	0.06	98.20	1.967	0.003	0.071
0.13	0.00	26.17	2.13	0.22	14.59	0.05	98.86	1.962	0.005	0.069
0.16	0.00	24.74	1.05	0.28	16.34	0.05	98.48	1.962	0.031	0.063
0.21	0.00	14.98	22.39	0.04	5.28	0.26	98.38	1.945	0.015	0.112
0.14	0.00	15.29	20.99	0.17	6.53	0.24	97.90	1.945	0.016	0.099
0.27	0.06	15.84	20.44	0.17	6.83	0.26	98.88	1.935	0.014	0.109
0.19	0.00	14.77	22.85	0.12	5.54	0.21	98.20	1.975	0.009	0.064
0.01	0.00	15.28	20.84	0.12	6.95	0.33	98.51	1.978	0.008	0.074
0.15	0.00	26.62	1.87	0.31	13.65	0.06	98.81	1.963	0.015	0.066
0.22	0.00	26.00	1.12	0.37	15.23	0.05	98.74	1.970	0.005	0.068
0.23	0.00	27.39	1.60	0.12	13.03	0.04	99.00	1.974	0.005	0.069
0.20	0.00	26.05	2.46	0.27	13.84	0.03	98.86	1.964	0.004	0.079
0.12	0.00	25.86	1.57	0.28	15.15	0.03	99.03	1.985	0.004	0.057
0.18	0.00	25.32	2.13	0.29	15.89	0.03	100.40	1.964	0.006	0.079
0.26	0.00	26.34	2.27	0.25	14.50	0.05	100.93	1.953	0.008	0.092
0.22	0.00	25.84	2.05	0.28	14.75	0.04	99.71	1.968	0.003	0.082
0.11	0.00	26.38	1.94	0.22	14.60	0.02	99.87	1.980	0.004	0.060
0.17	0.00	26.28	0.46	0.25	14.50	0.01	98.24	1.969	0.019	0.080
0.08	0.00	14.76	22.98	0.12	5.94	0.23	99.65	1.938	0.018	0.110
0.17	0.00	16.73	16.84	0.18	9.48	0.19	99.24	1.955	0.013	0.106
0.37	0.00	15.73	19.28	0.12	8.83	0.31	100.90	1.938	0.013	0.121
0.16	0.00	14.37	23.12	0.14	6.10	0.29	99.81	1.934	0.017	0.118
0.15	0.00	26.61	1.86	0.27	14.17	0.02	99.71	1.985	0.005	0.053
0.18	0.26	14.43	22.11	0.22	7.15	0.28	98.39	1.966	0.010	0.054
0.50	0.07	28.57	2.02	0.19	10.70	0.06	98.83	1.932	0.008	0.108
0.53	0.00	28.39	1.73	0.18	11.23	0.06	99.10	1.938	0.008	0.109
0.47	0.11	28.94	1.69	0.20	11.07	0.05	99.34	1.940	0.008	0.091
0.58	0.82	28.11	3.76	0.16	8.35	0.08	98.26	1.911	0.009	0.126
0.54	0.00	29.31	1.25	0.17	10.74	0.06	99.42	1.933	0.005	0.116
0.19	0.46	15.29	18.83	0.25	8.61	0.32	98.26	1.932	0.012	0.116
0.91	1.56	16.61	19.72	0.18	4.58	0.40	98.87	1.887	0.020	0.146
0.80	4.19	16.10	16.45	0.09	2.86	1.49	98.69	1.802	0.040	0.283
0.43	0.00	28.83	1.90	0.16	10.09	0.07	98.60	1.948	0.007	0.102
0.81	0.00	29.29	1.34	0.19	10.03	0.02	99.04	1.926	0.006	0.128
0.52	0.00	28.95	1.78	0.19	9.70	0.05	98.50	1.951	0.006	0.104
0.58	0.00	29.51	1.79	0.12	9.10	0.04	98.54	1.935	0.006	0.121
0.66	1.14	16.19	21.06	0.09	3.57	0.57	98.72	1.905	0.018	0.144
0.61	0.68	15.84	22.02	0.06	3.21	0.64	98.97	1.916	0.016	0.145
0.57	0.00	21.48	9.20	0.16	9.98	0.49	97.59	1.945	0.013	0.117
0.49	0.14	15.96	21.85	0.11	4.13	0.38	98.38	1.924	0.016	0.129
1.35	3.75	15.77	21.57	0.20	1.53	0.75	99.07	1.868	0.021	0.130
1.06	3.76	15.36	20.84	0.11	1.81	0.86	98.10	1.846	0.031	0.170
0.12	1.59	29.86	1.01	0.20	10.01	0.04	98.51	1.941	0.009	0.055
0.47	1.63	29.72	1.40	0.19	8.82	0.02	98.45	1.908	0.007	0.115
0.15	2.60	29.54	1.12	0.18	9.16	0.01	97.33	1.922	0.011	0.059
0.07	0.66	13.72	0.65	0.49	32.65	0.05	98.13	1.969	0.003	0.037
0.09	1.38	13.79	0.67	0.59	33.10	0.03	100.28	1.952	0.003	0.048
0.10	0.25	14.00	0.72	0.54	32.94	0.00	99.27	1.966	0.004	0.049
0.16	0.06	13.70	0.67	0.48	34.47	0.05	100.76	1.981	0.003	0.028
0.18	1.18	13.59	0.69	0.54	33.49	0.03	100.07	1.959	0.004	0.035
0.07	0.38	13.74	0.70	0.49	34.02	0.00	100.04	1.979	0.002	0.025
0.11	0.00	14.34	0.71	0.90	32.30	0.01	99.58	1.975	0.006	0.042
0.16	0.00	14.55	1.48	0.81	30.50	0.02	99.16	1.976	0.007	0.054

0.01	0.00	14.68	0.62	0.88	31.59	0.01	99.02	1.985	0.004	0.038
0.04	0.00	15.00	1.41	0.82	30.55	0.03	99.90	1.989	0.005	0.038
0.09	0.39	11.56	20.19	0.37	14.03	0.20	99.60	1.970	0.008	0.046
0.10	0.33	16.19	1.42	0.62	29.30	0.02	99.66	1.969	0.005	0.040
0.07	0.03	15.81	1.36	0.59	30.14	0.01	99.63	1.975	0.006	0.037
0.03	0.41	16.09	1.52	0.59	29.51	0.03	99.97	1.969	0.006	0.039
0.10	0.79	16.52	0.54	0.55	29.92	0.03	100.08	1.966	0.004	0.035
0.08	0.09	16.40	1.32	0.52	28.96	0.10	99.44	1.972	0.004	0.049
0.05	0.39	16.44	0.59	0.43	30.21	0.03	99.89	1.969	0.006	0.038
0.07	0.00	11.68	21.28	0.16	12.92	0.17	99.30	1.988	0.005	0.036
0.11	0.00	15.34	0.81	0.36	31.28	0.02	99.26	1.979	0.006	0.034
0.11	0.00	15.60	0.66	0.37	31.52	0.00	99.75	1.978	0.005	0.034
0.06	0.59	15.39	1.69	0.34	30.31	0.02	99.63	1.969	0.006	0.033
0.04	0.30	15.50	0.62	0.37	31.29	0.02	99.15	1.975	0.005	0.030
0.09	0.19	15.18	2.73	0.35	29.02	0.07	98.75	1.977	0.005	0.034
0.06	0.18	15.50	0.73	0.42	31.35	0.00	99.23	1.980	0.004	0.024
0.09	0.92	15.54	0.72	0.44	30.46	0.01	98.92	1.957	0.007	0.042
0.12	0.00	15.40	0.79	0.42	31.27	0.01	99.56	1.975	0.004	0.044
0.08	0.38	15.37	0.76	0.38	31.03	0.01	98.74	1.972	0.006	0.031
0.06	0.00	12.72	0.63	0.43	35.07	0.04	99.09	1.981	0.005	0.030
0.10	0.04	12.96	0.60	0.33	34.99	0.03	99.31	1.981	0.003	0.029
0.08	0.11	13.01	0.61	0.42	34.96	0.02	99.81	1.975	0.002	0.041
0.06	0.00	13.31	0.90	0.33	33.76	0.04	98.88	1.987	0.005	0.029
0.18	0.00	13.77	0.58	0.42	33.48	0.00	99.38	1.979	0.003	0.044
0.04	0.00	13.53	1.00	0.45	32.95	0.02	98.51	1.993	0.004	0.026
0.00	0.00	13.53	0.59	0.36	33.70	0.04	98.95	1.992	0.004	0.030
0.12	0.19	12.78	1.02	0.38	34.49	0.02	99.41	1.968	0.005	0.047
0.06	0.00	12.30	0.94	0.42	34.78	0.02	98.27	1.984	0.005	0.029
0.11	0.89	12.91	0.63	0.46	34.30	0.01	98.94	1.969	0.002	0.029

Cr	Fe+3	Mg	Ca	Mn	Fe+2	Na	Total	End-members		
								En	Fs	Wo
0.007	0.000	1.517	0.072	0.005	0.333	0.000	3.987	78.7	17.5	3.7
0.009	0.000	1.539	0.065	0.006	0.326	0.005	3.998	79.5	17.1	3.4
0.011	0.000	1.496	0.064	0.007	0.323	0.004	3.977	79.2	17.5	3.4
0.007	0.000	1.525	0.076	0.008	0.339	0.004	3.996	78.3	17.8	3.9
0.010	0.000	1.510	0.080	0.007	0.317	0.005	3.987	78.9	16.9	4.2
0.008	0.000	1.531	0.058	0.007	0.342	0.002	3.994	79.0	18.0	3.0
0.013	0.000	1.514	0.071	0.004	0.321	0.000	3.983	79.3	17.0	3.7
0.006	0.000	1.480	0.075	0.008	0.381	0.005	3.994	76.1	20.0	3.9
0.010	0.000	1.454	0.067	0.005	0.376	0.003	3.982	76.4	20.0	3.5
0.007	0.000	1.491	0.086	0.006	0.345	0.005	3.992	77.3	18.2	4.5
0.007	0.000	1.336	0.098	0.007	0.465	0.003	3.975	70.1	24.8	5.1
0.008	0.000	1.417	0.048	0.007	0.456	0.001	3.989	73.5	24.0	2.5
0.005	0.000	1.397	0.020	0.006	0.498	0.002	3.979	72.7	26.2	1.0
0.004	0.000	1.412	0.049	0.009	0.464	0.000	3.987	73.0	24.5	2.5
0.008	0.000	1.380	0.076	0.007	0.442	0.003	3.975	72.4	23.6	4.0
0.004	0.000	1.326	0.122	0.008	0.477	0.002	3.985	68.6	25.1	6.3
0.005	0.023	1.535	0.065	0.008	0.329	0.006	4.000	78.3	18.4	3.3
0.010	0.000	1.530	0.058	0.007	0.329	0.003	3.984	79.5	17.5	3.0
0.008	0.000	1.550	0.055	0.007	0.318	0.002	3.988	80.3	16.8	2.8
0.009	0.000	1.496	0.069	0.004	0.374	0.004	3.997	77.0	19.5	3.6
0.006	0.000	1.573	0.022	0.005	0.344	0.003	3.995	80.9	18.0	1.1
0.009	0.000	1.551	0.029	0.005	0.354	0.001	3.988	80.0	18.5	1.5
0.010	0.000	1.541	0.045	0.006	0.352	0.003	3.999	79.3	18.4	2.3
0.003	0.000	1.340	0.076	0.010	0.511	0.013	3.999	69.2	26.9	3.9
0.006	0.000	1.422	0.081	0.007	0.452	0.003	3.999	72.5	23.4	4.1
0.009	0.020	1.438	0.082	0.006	0.410	0.003	4.001	73.5	22.3	4.2
0.006	0.000	1.417	0.082	0.007	0.445	0.002	3.997	72.6	23.2	4.2
0.007	0.030	0.853	0.820	0.005	0.211	0.023	3.999	44.5	12.8	42.7
0.005	0.000	1.019	0.546	0.008	0.359	0.012	3.996	52.7	19.0	28.3
0.008	0.000	0.992	0.614	0.007	0.297	0.016	3.999	51.9	15.9	32.1
0.011	0.008	0.825	0.873	0.004	0.189	0.022	4.000	43.4	10.6	46.0
0.009	0.005	0.880	0.724	0.006	0.286	0.027	4.000	46.3	15.6	38.1
0.012	0.001	1.359	0.050	0.009	0.529	0.002	4.000	69.8	27.7	2.6
0.007	0.009	1.367	0.020	0.011	0.558	0.002	4.000	69.6	29.4	1.0
0.009	0.000	1.416	0.019	0.009	0.512	0.001	3.999	72.4	26.6	1.0
0.007	0.000	1.403	0.060	0.007	0.483	0.001	3.998	71.8	25.1	3.1
0.007	0.000	1.354	0.075	0.008	0.513	0.002	3.997	69.4	26.7	3.8
0.008	0.000	1.402	0.054	0.008	0.486	0.002	3.997	71.9	25.3	2.8
0.008	0.021	1.349	0.064	0.008	0.522	0.002	3.999	68.7	28.1	3.3
0.009	0.001	1.335	0.069	0.010	0.542	0.003	4.001	68.2	28.3	3.5
0.011	0.055	0.810	0.874	0.005	0.174	0.032	4.000	42.2	12.2	45.6
0.005	0.000	1.561	0.072	0.004	0.313	0.002	3.993	80.1	16.3	3.7
0.007	0.000	1.513	0.080	0.006	0.335	0.004	3.988	78.2	17.6	4.1
0.008	0.000	1.547	0.064	0.005	0.313	0.003	3.992	80.2	16.5	3.3
0.009	0.000	1.517	0.068	0.006	0.338	0.003	3.993	78.6	17.8	3.5
0.010	0.000	1.527	0.072	0.005	0.310	0.004	3.985	79.8	16.5	3.8
0.006	0.000	1.536	0.069	0.006	0.329	0.003	3.990	79.2	17.3	3.6
0.008	0.000	1.502	0.062	0.006	0.366	0.002	3.989	77.6	19.2	3.2
0.009	0.000	1.498	0.086	0.007	0.353	0.004	3.997	77.1	18.5	4.4
0.008	0.000	1.544	0.068	0.005	0.331	0.002	3.994	79.3	17.2	3.5
0.009	0.000	1.516	0.082	0.005	0.334	0.001	3.994	78.3	17.5	4.2
0.008	0.000	1.437	0.065	0.007	0.413	0.002	3.983	74.8	21.9	3.4

0.012	0.013	0.829	0.850	0.004	0.204	0.021	3.999	43.6	11.6	44.7
0.012	0.000	0.913	0.683	0.004	0.239	0.034	3.986	49.6	13.2	37.1
0.007	0.010	0.845	0.928	0.004	0.151	0.019	4.000	43.6	8.5	47.9
0.008	0.000	1.367	0.061	0.007	0.505	0.004	3.993	70.5	26.4	3.1
0.004	0.000	1.422	0.083	0.007	0.445	0.004	4.001	72.7	23.1	4.2
0.005	0.000	1.358	0.041	0.009	0.503	0.004	3.976	71.1	26.8	2.1
0.006	0.000	0.833	0.895	0.001	0.165	0.019	3.991	44.0	8.8	47.3
0.004	0.000	0.857	0.846	0.005	0.205	0.017	3.994	44.8	11.0	44.2
0.008	0.002	0.879	0.815	0.005	0.213	0.019	3.999	45.9	11.5	42.6
0.006	0.000	0.825	0.917	0.004	0.174	0.015	3.989	43.0	9.3	47.8
0.000	0.000	0.850	0.833	0.004	0.217	0.024	3.988	44.6	11.6	43.8
0.004	0.000	1.440	0.073	0.010	0.414	0.004	3.989	74.3	21.9	3.8
0.006	0.000	1.415	0.044	0.011	0.465	0.004	3.988	73.1	24.6	2.3
0.006	0.000	1.470	0.062	0.004	0.393	0.003	3.986	76.2	20.6	3.2
0.006	0.000	1.412	0.096	0.008	0.421	0.002	3.992	72.9	22.1	5.0
0.003	0.000	1.402	0.061	0.009	0.461	0.002	3.984	72.5	24.3	3.2
0.005	0.000	1.361	0.082	0.009	0.479	0.002	3.987	70.5	25.3	4.2
0.007	0.000	1.400	0.087	0.007	0.432	0.004	3.990	72.7	22.8	4.5
0.006	0.000	1.391	0.079	0.009	0.446	0.003	3.987	72.3	23.6	4.1
0.003	0.000	1.415	0.075	0.007	0.439	0.001	3.984	73.1	23.0	3.9
0.005	0.000	1.428	0.018	0.008	0.442	0.001	3.970	75.3	23.7	0.9
0.002	0.000	0.814	0.911	0.004	0.184	0.017	3.998	42.6	9.8	47.6
0.005	0.000	0.924	0.668	0.006	0.294	0.014	3.985	48.8	15.9	35.3
0.011	0.000	0.858	0.756	0.004	0.270	0.022	3.993	45.4	14.5	40.0
0.005	0.000	0.792	0.916	0.005	0.189	0.021	3.997	41.6	10.2	48.2
0.004	0.000	1.427	0.071	0.008	0.426	0.001	3.980	73.9	22.5	3.7
0.005	0.007	0.810	0.893	0.007	0.225	0.021	3.998	41.7	12.3	46.0
0.014	0.002	1.527	0.078	0.006	0.321	0.004	4.000	79.0	17.0	4.0
0.015	0.000	1.515	0.066	0.005	0.336	0.004	3.996	78.8	17.7	3.4
0.013	0.003	1.540	0.065	0.006	0.331	0.003	4.000	79.2	17.5	3.3
0.016	0.022	1.508	0.145	0.005	0.251	0.006	3.999	78.1	14.4	7.5
0.015	0.000	1.553	0.047	0.005	0.319	0.004	3.997	80.7	16.8	2.4
0.006	0.013	0.859	0.760	0.008	0.271	0.023	4.000	45.0	15.3	39.8
0.027	0.043	0.918	0.784	0.005	0.142	0.029	4.001	48.5	10.0	41.4
0.023	0.117	0.886	0.651	0.003	0.088	0.107	4.000	50.8	11.9	37.3
0.012	0.000	1.537	0.073	0.005	0.302	0.005	3.991	80.2	16.0	3.8
0.023	0.000	1.554	0.051	0.006	0.299	0.001	3.994	81.4	16.0	2.7
0.015	0.000	1.542	0.068	0.006	0.290	0.004	3.986	80.9	15.5	3.6
0.016	0.000	1.567	0.068	0.004	0.271	0.003	3.991	82.0	14.4	3.6
0.019	0.032	0.893	0.835	0.003	0.111	0.041	4.001	47.7	7.8	44.6
0.018	0.019	0.870	0.870	0.002	0.099	0.046	4.001	46.8	6.5	46.8
0.017	0.000	1.185	0.365	0.005	0.309	0.035	3.991	63.6	16.8	19.6
0.014	0.004	0.884	0.870	0.004	0.128	0.027	4.000	46.8	7.2	46.0
0.039	0.105	0.871	0.857	0.006	0.047	0.054	3.998	46.2	8.4	45.4
0.031	0.106	0.857	0.836	0.003	0.057	0.063	4.000	46.1	8.9	45.0
0.003	0.043	1.599	0.039	0.006	0.301	0.003	3.999	80.4	17.6	2.0
0.013	0.044	1.588	0.054	0.006	0.264	0.002	4.001	81.2	16.1	2.8
0.004	0.071	1.603	0.044	0.005	0.279	0.001	3.999	80.1	17.7	2.2
0.002	0.020	0.822	0.028	0.017	1.098	0.004	4.000	41.4	57.2	1.4
0.003	0.041	0.811	0.028	0.020	1.092	0.002	4.000	40.7	57.9	1.4
0.003	0.008	0.828	0.031	0.018	1.093	0.000	4.000	41.9	56.6	1.6
0.005	0.002	0.801	0.028	0.016	1.132	0.004	4.000	40.5	58.1	1.4
0.006	0.035	0.802	0.029	0.018	1.109	0.002	3.999	40.2	58.3	1.5
0.002	0.011	0.810	0.030	0.016	1.125	0.000	4.000	40.7	57.8	1.5
0.003	0.000	0.843	0.030	0.030	1.065	0.001	3.995	42.8	55.6	1.5
0.005	0.000	0.853	0.062	0.027	1.003	0.002	3.989	43.9	53.0	3.2

0.000	0.000	0.864	0.026	0.029	1.043	0.001	3.990	44.0	54.6	1.3
0.001	0.000	0.871	0.059	0.027	0.995	0.002	3.987	44.6	52.4	3.0
0.003	0.011	0.659	0.828	0.012	0.449	0.015	4.001	33.6	24.1	42.3
0.003	0.010	0.939	0.059	0.020	0.953	0.002	4.000	47.4	49.6	3.0
0.002	0.001	0.919	0.057	0.020	0.983	0.001	4.001	46.4	50.7	2.9
0.001	0.012	0.931	0.063	0.019	0.958	0.002	4.000	46.9	49.9	3.2
0.003	0.023	0.955	0.022	0.018	0.970	0.003	3.999	48.0	50.9	1.1
0.003	0.003	0.949	0.055	0.017	0.941	0.007	4.000	48.3	48.9	2.8
0.002	0.011	0.952	0.024	0.014	0.981	0.002	3.999	48.0	50.8	1.2
0.002	0.000	0.664	0.870	0.005	0.413	0.012	3.995	34.0	21.4	44.6
0.003	0.000	0.898	0.034	0.012	1.028	0.002	3.996	45.5	52.7	1.7
0.003	0.000	0.909	0.028	0.012	1.030	0.000	3.999	45.9	52.7	1.4
0.002	0.017	0.898	0.071	0.011	0.992	0.002	4.001	45.1	51.3	3.6
0.001	0.009	0.909	0.026	0.012	1.030	0.002	3.999	45.8	52.9	1.3
0.003	0.006	0.890	0.115	0.012	0.955	0.005	4.002	45.0	49.2	5.8
0.002	0.005	0.909	0.031	0.014	1.031	0.000	4.000	45.7	52.8	1.6
0.003	0.027	0.914	0.031	0.015	1.005	0.000	4.001	45.9	52.6	1.6
0.004	0.000	0.899	0.033	0.014	1.024	0.001	3.998	45.6	52.7	1.7
0.003	0.011	0.906	0.032	0.013	1.026	0.001	4.001	45.6	52.8	1.6
0.002	0.000	0.761	0.027	0.015	1.177	0.003	4.001	38.4	60.2	1.4
0.003	0.001	0.772	0.026	0.011	1.170	0.003	3.999	39.0	59.7	1.3
0.003	0.003	0.771	0.026	0.014	1.163	0.001	3.999	39.0	59.7	1.3
0.002	0.000	0.793	0.039	0.011	1.128	0.003	3.997	40.2	57.8	2.0
0.006	0.000	0.814	0.024	0.014	1.110	0.000	3.994	41.5	57.3	1.2
0.001	0.000	0.806	0.043	0.015	1.101	0.001	3.990	41.0	56.8	2.2
0.000	0.000	0.804	0.025	0.012	1.123	0.003	3.993	40.9	57.8	1.3
0.004	0.006	0.761	0.044	0.013	1.152	0.002	4.002	38.5	59.3	2.2
0.002	0.000	0.742	0.041	0.014	1.178	0.002	3.997	37.6	60.4	2.1
0.004	0.027	0.773	0.027	0.016	1.153	0.001	4.001	38.7	59.9	1.4

	Borehole	Depth (m)	Sample		wt% SiO2	MgO	CaO	MnO	FeO	NiO	Total
Arthrath prospect	AD25	216.15	ATD24	#1	38.86	40.64	0.02	0.14	18.98	0.10	98.73
Arthrath prospect	AD25	216.15	ATD24	#2	39.00	40.75	0.04	0.18	18.66	0.05	98.68
Arthrath prospect	AD25	216.15	ATD24	#3	39.28	40.67	0.03	0.20	18.98	0.11	99.26
Arthrath prospect	AD25	216.15	ATD24	#4	39.18	40.90	0.02	0.17	18.52	0.15	98.95
Arthrath prospect	AD25	216.15	ATD24	#5	39.05	40.88	0.00	0.14	18.40	0.04	98.51
Arthrath prospect	AD25	216.15	ATD24	#6	38.76	40.70	0.02	0.23	18.36	0.00	98.08
Arthrath prospect	AD25	216.15	ATD24	#8	39.04	40.51	0.04	0.25	18.70	0.05	98.60
Arthrath prospect	AD25	216.15	ATD24	#9	39.06	40.97	0.01	0.20	18.72	0.11	99.08
Arthrath prospect	AD25	254.7	ATD26	#1	39.25	41.31	0.01	0.24	17.56	0.16	98.53
Arthrath prospect	AD25	254.7	ATD26	#2	38.24	41.45	0.02	0.24	17.68	0.14	97.76
Arthrath prospect	AD25	254.7	ATD26	#3	39.01	41.61	0.02	0.21	17.39	0.11	98.36
Arthrath prospect	AD25	254.7	ATD26	#5	39.08	42.19	0.03	0.04	16.63	0.10	98.07
Arthrath prospect	AD25	254.7	ATD26	#6	39.12	41.05	0.00	0.26	17.84	0.12	98.39
Arthrath prospect	AD25	254.7	ATD26	#7	38.93	41.50	0.02	0.23	17.71	0.10	98.48
Arthrath prospect	AD25	341.66	ATD31	#1	38.40	42.19	0.03	0.16	17.81	0.08	98.67
Arthrath prospect	AD25	341.66	ATD31	#2	38.26	41.14	0.00	0.18	19.61	0.17	99.36
Arthrath prospect	AD25	341.66	ATD31	#3	38.50	41.43	0.04	0.12	18.56	0.03	98.68
Arthrath prospect	AD25	341.66	ATD31	#4	38.30	42.40	0.02	0.15	18.06	0.02	98.95
Arthrath prospect	AD25	341.66	ATD31	#5	38.67	41.62	0.02	0.16	18.77	0.07	99.32
Arthrath prospect	AD25	341.66	ATD31	#6	38.22	41.99	0.02	0.16	18.14	0.13	98.66

Cations (4 O)							End-member
Si	Mg	Ca	Mn	Fe	Ni	Total	Fo
1.007	1.570	0.000	0.003	0.411	0.002	2.993	79.3
1.009	1.572	0.001	0.004	0.404	0.001	2.991	79.6
1.011	1.561	0.001	0.004	0.409	0.002	2.988	79.2
1.010	1.572	0.001	0.004	0.399	0.003	2.989	79.8
1.011	1.577	0.000	0.003	0.398	0.001	2.990	79.8
1.008	1.578	0.001	0.005	0.400	0.000	2.992	79.8
1.011	1.564	0.001	0.005	0.405	0.001	2.987	79.4
1.007	1.575	0.000	0.004	0.404	0.002	2.992	79.6
1.012	1.588	0.000	0.005	0.379	0.003	2.987	80.7
0.997	1.611	0.000	0.005	0.386	0.003	3.002	80.7
1.008	1.602	0.001	0.005	0.376	0.002	2.994	81.0
1.008	1.622	0.001	0.001	0.359	0.002	2.993	81.9
1.012	1.582	0.000	0.006	0.386	0.003	2.989	80.4
1.006	1.598	0.000	0.005	0.383	0.002	2.994	80.7
0.992	1.625	0.001	0.004	0.385	0.002	3.009	80.8
0.990	1.587	0.000	0.004	0.424	0.004	3.009	78.9
0.997	1.599	0.001	0.003	0.402	0.001	3.003	79.9
0.988	1.630	0.001	0.003	0.390	0.000	3.012	80.7
0.996	1.598	0.001	0.003	0.404	0.001	3.003	79.8
0.990	1.621	0.000	0.003	0.393	0.003	3.010	80.5

	Borehole	Depth	Sample		wt%					
					SiO2	Al2O3	CaO	MnO	FeO	Na2O
Arthrath prospect	AD25	41.9	ATD2	#1	51.80	27.71	11.95	0.00	0.65	4.31
Arthrath prospect	AD25	41.9	ATD2	#2	51.21	29.11	13.98	0.00	0.05	3.69
Arthrath prospect	AD25	41.9	ATD2	#3	51.33	28.60	13.70	0.00	0.14	3.71
Arthrath prospect	AD25	41.9	ATD2	#4	50.83	29.29	14.51	0.00	0.07	3.22
Arthrath prospect	AD25	41.9	ATD2	#5	55.01	27.02	10.92	0.00	0.13	5.30
Arthrath prospect	AD25	41.9	ATD2	#6	50.84	29.57	14.20	0.00	0.15	3.41
Arthrath prospect	AD25	62.6	ATD5	#7	48.83	30.96	15.71	0.00	0.17	2.68
Arthrath prospect	AD25	62.6	ATD5	#8	49.88	29.89	14.76	0.00	0.17	3.17
Arthrath prospect	AD25	62.6	ATD5	#9	48.68	30.89	15.86	0.00	0.11	2.70
Arthrath prospect	AD25	62.6	ATD5	#10	50.52	28.80	14.22	0.00	0.06	3.56
Arthrath prospect	AD25	62.6	ATD5	#11	52.11	28.83	13.22	0.00	0.11	4.12
Arthrath prospect	AD25	62.6	ATD5	#12	48.25	30.48	16.21	0.00	0.13	2.46
Arthrath prospect	AD25	62.6	ATD5	#13	48.45	31.15	16.00	0.00	0.08	2.47
Arthrath prospect	AD25	62.6	ATD5	#14	51.24	28.72	13.78	0.00	0.06	3.57
Arthrath prospect	AD25	62.6	ATD5	#15	50.91	28.99	13.85	0.00	0.10	3.62
Arthrath prospect	AD25	62.6	ATD5	#16	48.11	30.70	16.16	0.00	0.16	2.46
Arthrath prospect	AD25	62.6	ATD5	#17	53.19	27.75	12.22	0.00	0.03	4.77
Arthrath prospect	AD25	92.45	ATD8	#1	49.48	29.80	14.13	0.00	0.14	3.39
Arthrath prospect	AD25	92.45	ATD8	#2	54.53	26.92	10.67	0.00	0.15	5.28
Arthrath prospect	AD25	92.45	ATD8	#3	49.88	29.65	14.06	0.00	0.19	3.32
Arthrath prospect	AD25	92.45	ATD8	#4	51.20	28.00	12.78	0.00	0.22	3.95
Arthrath prospect	AD25	92.45	ATD8	#5	49.91	29.66	14.22	0.00	0.23	3.30
Arthrath prospect	AD25	92.45	ATD8	#6	50.22	29.62	13.98	0.00	0.08	3.68
Arthrath prospect	AD25	92.45	ATD8	#7	50.60	28.97	13.65	0.00	0.22	3.66
Arthrath prospect	AD25	92.45	ATD8	#8	48.72	29.83	14.31	0.00	0.18	3.24
Arthrath prospect	AD25	92.45	ATD8	#9	50.71	29.27	13.76	0.00	0.15	3.58
Arthrath prospect	AD25	103	ATD9	#1	51.89	29.63	13.23	0.00	0.21	3.96
Arthrath prospect	AD25	103	ATD9	#2	49.72	30.39	14.55	0.00	0.22	3.26
Arthrath prospect	AD25	103	ATD9	#3	51.82	30.10	13.66	0.00	0.26	3.83
Arthrath prospect	AD25	103	ATD9	#4	51.82	30.03	13.69	0.00	0.33	3.78
Arthrath prospect	AD25	103	ATD9	#5	51.39	30.33	14.22	0.00	0.26	3.59
Arthrath prospect	AD25	103	ATD9	#6	50.10	30.83	14.74	0.00	0.27	3.13
Arthrath prospect	AD25	103	ATD9	#7	51.28	29.79	13.81	0.00	0.18	3.75
Arthrath prospect	AD25	103	ATD9	#8	51.86	29.74	13.56	0.00	0.19	3.87
Arthrath prospect	AD25	103	ATD9	#9	51.63	30.15	13.72	0.00	0.26	3.86
Arthrath prospect	AD25	103	ATD9	#10	52.11	29.89	13.52	0.00	0.22	3.93
Arthrath prospect	AD25	109.4	ATD10	#1	2.85	32.60	48.99	0.02	15.52	0.00
Arthrath prospect	AD25	109.4	ATD10	#2	3.54	31.68	50.38	0.03	14.31	0.00
Arthrath prospect	AD25	109.4	ATD10	#3	2.78	32.63	48.99	0.00	15.50	0.00
Arthrath prospect	AD25	109.4	ATD10	#4	4.13	28.46	51.64	0.06	12.11	0.00
Arthrath prospect	AD25	109.4	ATD10	#5	4.18	29.56	49.94	0.03	12.17	0.06
Arthrath prospect	AD25	109.4	ATD10	#6	4.17	30.03	50.96	0.02	12.59	0.02
Arthrath prospect	AD25	109.4	ATD10	#7	4.29	30.61	52.24	0.04	13.13	0.00
Arthrath prospect	AD25	109.4	ATD10	#8	4.33	30.67	52.10	0.02	13.24	0.00
Arthrath prospect	AD25	109.4	ATD10	#9	3.08	32.32	49.56	0.03	15.21	0.00
Arthrath prospect	AD25	109.4	ATD10	#10	4.64	29.75	53.05	0.04	12.48	0.00
Arthrath prospect	AD25	109.4	ATD10	#11	3.52	31.57	50.47	0.02	14.76	0.00
Arthrath prospect	AD25	109.4	ATD10	#12	5.13	29.13	54.09	0.05	11.69	0.00
Arthrath prospect	AD25	109.4	ATD10	#14	2.77	32.66	48.66	0.06	15.56	0.00

Arthrath prospect	AD25	109.4	ATD10	#15	3.52	31.50	50.37	0.02	14.39	0.00
Arthrath prospect	AD25	109.4	ATD10	#16	4.44	30.32	52.76	0.04	12.91	0.00
Arthrath prospect	AD25	109.4	ATD10	#17	4.35	30.20	52.97	0.04	12.93	0.00
Arthrath prospect	AD25	109.4	ATD10	#18	4.37	30.26	52.57	0.03	12.76	0.00
Arthrath prospect	AD25	109.4	ATD10	#19	6.64	26.93	57.28	0.08	9.11	0.00
Arthrath prospect	AD25	109.4	ATD10	#20	6.76	26.80	57.67	0.15	8.73	0.00
Arthrath prospect	AD25	109.75	ATD11	#1	52.15	27.87	12.20	0.00	0.21	4.37
Arthrath prospect	AD25	109.75	ATD11	#2	51.89	28.15	12.40	0.00	0.12	4.25
Arthrath prospect	AD25	109.75	ATD11	#3	52.26	28.23	12.61	0.00	0.13	4.35
Arthrath prospect	AD25	109.75	ATD11	#4	51.42	28.99	13.06	0.00	0.16	3.93
Arthrath prospect	AD25	109.75	ATD11	#5	52.64	28.21	12.38	0.00	0.17	4.43
Arthrath prospect	AD25	123.8	ATD13	#6	49.55	30.05	14.70	0.00	0.10	3.11
Arthrath prospect	AD25	123.8	ATD13	#7	47.77	31.46	16.09	0.00	0.12	2.25
Arthrath prospect	AD25	123.8	ATD13	#8	49.83	29.46	14.34	0.00	0.18	3.16
Arthrath prospect	AD25	123.8	ATD13	#9	49.39	30.14	15.03	0.00	0.15	3.01
Arthrath prospect	AD25	123.8	ATD13	#10	49.82	29.07	14.16	0.00	0.65	3.22
Arthrath prospect	AD25	123.8	ATD13	#11	49.96	29.92	14.35	0.00	0.25	3.13
Arthrath prospect	AD25	123.8	ATD13	#12	50.09	29.69	14.46	0.02	0.10	3.32
Arthrath prospect	AD25	123.8	ATD13	#13	50.09	29.85	14.19	0.00	0.20	3.34
Arthrath prospect	AD25	123.8	ATD13	#14	49.88	29.59	14.54	0.00	0.13	3.05
Arthrath prospect	AD25	123.8	ATD13	#15	48.14	30.99	15.75	0.00	0.07	2.49
Arthrath prospect	AD25	152.4	ATD18	#1	49.49	31.17	15.47	0.03	0.01	2.87
Arthrath prospect	AD25	152.4	ATD18	#2	49.89	30.92	14.86	0.00	0.09	3.00
Arthrath prospect	AD25	152.4	ATD18	#3	49.52	30.89	14.95	0.00	0.13	3.04
Arthrath prospect	AD25	152.4	ATD18	#4	50.31	30.41	14.34	0.00	0.12	3.32
Arthrath prospect	AD25	152.4	ATD18	#5	49.43	30.99	15.26	0.00	0.21	2.75
Arthrath prospect	AD25	152.4	ATD18	#6	50.97	30.06	13.73	0.00	0.09	3.64
Arthrath prospect	AD25	152.4	ATD18	#7	52.46	28.95	12.35	0.00	0.13	4.52
Arthrath prospect	AD25	152.4	ATD18	#8	50.92	30.03	13.76	0.00	0.13	3.67
Arthrath prospect	AD25	152.4	ATD18	#9	53.96	28.27	11.63	0.01	0.10	4.95
Arthrath prospect	AD25	152.4	ATD18	#10	49.37	31.09	15.20	0.00	0.21	2.95
Arthrath prospect	AD25	161.45	ATD19	#1	50.50	30.73	14.78	0.04	0.09	3.29
Arthrath prospect	AD25	161.45	ATD19	#2	54.13	28.26	11.93	0.00	0.08	4.85
Arthrath prospect	AD25	161.45	ATD19	#3	51.23	30.42	14.36	0.00	0.18	3.53
Arthrath prospect	AD25	161.45	ATD19	#4	50.65	30.34	14.43	0.00	0.15	3.37
Arthrath prospect	AD25	161.45	ATD19	#5	49.12	31.50	15.72	0.00	0.16	2.58
Arthrath prospect	AD25	161.45	ATD19	#6	50.45	30.03	14.50	0.00	0.15	3.38
Arthrath prospect	AD25	161.45	ATD19	#7	51.26	30.06	14.23	0.00	0.18	3.56
Arthrath prospect	AD25	176.2	ATD20	#8	51.66	28.38	13.07	0.00	0.22	4.24
Arthrath prospect	AD25	176.2	ATD20	#9	50.22	29.92	14.36	0.00	0.14	3.42
Arthrath prospect	AD25	176.2	ATD20	#11	51.27	28.52	13.00	0.00	0.11	4.25
Arthrath prospect	AD25	176.2	ATD20	#12	53.02	28.09	11.82	0.00	0.21	4.98
Arthrath prospect	AD25	176.2	ATD20	#13	51.02	28.67	13.32	0.01	0.12	4.13
Arthrath prospect	AD25	216.15	ATD24	#10	50.99	29.52	13.87	0.00	0.21	3.65
Arthrath prospect	AD25	216.15	ATD24	#11	50.53	29.91	14.25	0.00	0.08	3.51
Arthrath prospect	AD25	216.15	ATD24	#12	51.02	29.37	13.66	0.00	0.12	3.65
Arthrath prospect	AD25	216.15	ATD24	#13	50.71	29.23	13.95	0.00	0.09	3.65
Arthrath prospect	AD25	216.15	ATD24	#14	51.64	29.09	13.29	0.00	0.13	4.07
Arthrath prospect	AD25	216.15	ATD24	#15	52.57	28.46	12.17	0.00	0.03	4.59
Arthrath prospect	AD25	254.7	ATD26	#11	51.33	29.83	13.66	0.00	0.08	3.59
Arthrath prospect	AD25	254.7	ATD26	#12	51.11	30.25	13.88	0.02	0.18	3.54
Arthrath prospect	AD25	254.7	ATD26	#13	52.27	29.39	12.83	0.00	0.15	4.30

Arthrath prospect	AD25	254.7	ATD26	#15	50.77	30.27	14.09	0.00	0.06	3.48
Arthrath prospect	AD25	254.7	ATD26	#16	55.67	26.85	10.16	0.00	0.07	5.87
Arthrath prospect	AD25	341.66	ATD31	#11	49.56	30.07	13.31	0.00	0.07	4.09
Arthrath prospect	AD25	341.66	ATD31	#12	50.28	29.57	12.57	0.00	0.20	4.58
Arthrath prospect	AD25	341.66	ATD31	#13	51.47	29.38	12.28	0.00	0.03	4.60
Arthrath prospect	AD25	341.66	ATD31	#14	48.55	31.31	14.83	0.00	0.12	3.27
Arthrath prospect	AD25	341.66	ATD31	#15	49.33	30.39	13.72	0.00	0.02	3.89
Littlemill prospect	RD7	48	LMD1	#1	53.66	27.75	11.10	0.00	0.09	5.06
Littlemill prospect	RD7	48	LMD1	#2	54.75	27.04	10.62	0.00	0.11	5.55
Littlemill prospect	RD7	48	LMD1	#3	53.47	27.63	11.28	0.00	0.04	5.04
Littlemill prospect	RD7	51.8	LMD25	#1	54.98	27.49	10.73	0.00	0.09	5.36
Littlemill prospect	RD7	51.8	LMD25	#2	53.10	28.61	12.01	0.00	0.13	4.63
Littlemill prospect	RD7	51.8	LMD25	#3	54.39	27.85	11.19	0.00	0.05	5.14
Littlemill prospect	RD7	51.8	LMD25	#4	53.43	28.28	11.53	0.00	0.02	4.81
Littlemill prospect	RD7	51.8	LMD25	#5	53.84	28.09	11.25	0.00	0.04	5.04
Littlemill prospect	RD7	51.8	LMD25	#6	51.13	29.84	13.61	0.00	0.05	3.74
Littlemill prospect	RD7	51.8	LMD25	#7	53.87	28.34	11.42	0.00	0.07	4.99
Littlemill prospect	RD7	52.2	LMD2	#6	51.06	29.72	13.45	0.00	0.09	4.01
Littlemill prospect	RD7	52.2	LMD2	#7	50.84	29.87	13.22	0.00	0.11	4.01
Littlemill prospect	RD7	52.2	LMD2	#8	50.31	30.29	14.47	0.00	0.02	3.42
Littlemill prospect	RD7	52.2	LMD2	#9	50.67	29.97	14.06	0.00	0.16	3.71
Littlemill prospect	RD7	52.2	LMD2	#10	49.40	30.56	14.65	0.00	0.14	3.29
Littlemill prospect	RD7	52.2	LMD2	#11	48.61	31.37	15.23	0.00	0.10	2.87
Littlemill prospect	RD7	52.2	LMD2	#12	49.85	30.64	14.68	0.00	0.12	3.32
Littlemill prospect	RD7	52.2	LMD2	#13	50.10	30.75	14.47	0.00	0.05	3.44
Littlemill prospect	RD7	52.2	LMD2	#14	52.30	29.10	12.41	0.00	0.05	4.49
Littlemill prospect	RD7	52.2	LMD2	#15	52.54	28.85	12.36	0.00	0.07	4.54
Littlemill prospect	RD22	151.45	LMD12	#2	55.43	27.03	10.16	0.00	0.05	5.62
Littlemill prospect	RD22	151.45	LMD12	#3	50.29	30.58	14.36	0.00	0.08	3.27
Littlemill prospect	RD22	151.45	LMD12	#4	51.65	29.43	13.02	0.00	0.01	4.08
Littlemill prospect	RD22	151.45	LMD12	#5	54.32	27.59	11.02	0.00	0.14	5.14
Littlemill prospect	RD22	151.45	LMD12	#6	51.45	29.09	12.96	0.00	0.07	4.17
Littlemill prospect	RD22	151.45	LMD12	#7	53.78	28.00	11.60	0.00	0.14	4.81
Littlemill prospect	RD22	151.45	LMD12	#8	51.48	28.89	12.58	0.00	0.06	4.33
Littlemill prospect	RD22	151.45	LMD12	#9	52.17	28.23	11.99	0.00	0.07	4.56
Littlemill prospect	RD22	151.45	LMD12	#10	49.54	30.13	14.30	0.00	0.03	3.52
Littlemill prospect	RD22	151.45	LMD12	#11	50.08	30.29	14.29	0.00	0.00	3.27
Littlemill prospect	RD22	151.45	LMD12	#12	49.91	29.77	13.63	0.00	0.12	3.47
Littlemill prospect	RD22	153.7	LMD16	#13	53.31	27.73	11.13	0.00	0.15	5.15
Littlemill prospect	RD22	153.7	LMD16	#14	53.44	27.47	11.44	0.00	0.19	4.97
Littlemill prospect	RD22	153.7	LMD16	#15	50.34	29.26	13.80	0.00	0.07	3.43
Littlemill prospect	RD22	153.7	LMD16	#17	50.97	28.47	13.30	0.00	0.15	3.91
Littlemill prospect	RD22	153.7	LMD16	#18	53.91	27.34	11.31	0.00	0.02	5.07
Littlemill prospect	RD22	153.7	LMD16	#19	51.98	28.01	12.71	0.00	0.06	4.16
Littlemill prospect	RD22	153.7	LMD16	#20	50.47	29.37	13.69	0.00	0.24	3.44
Littlemill prospect	RD22	153.7	LMD16	#21	51.15	28.96	13.16	0.01	0.13	3.93

K2O	Total	Cations (8 O)								Total
		Si	Al	Ca	Mn	Fe	Na	K		
0.13	96.56	#1	2.435	1.535	0.602	0.000	0.026	0.392	0.008	4.998
0.13	98.17	#2	2.374	1.590	0.694	0.000	0.002	0.332	0.008	5.000
0.13	97.61	#3	2.392	1.571	0.684	0.000	0.006	0.335	0.008	4.996
0.15	98.07	#4	2.361	1.603	0.722	0.000	0.003	0.290	0.009	4.988
0.20	98.58	#5	2.517	1.457	0.535	0.000	0.005	0.470	0.012	4.996
0.15	98.33	#6	2.355	1.614	0.705	0.000	0.006	0.307	0.009	4.996
0.02	98.36	#7	2.272	1.697	0.783	0.000	0.006	0.241	0.001	5.000
0.02	97.88	#8	2.325	1.642	0.737	0.000	0.006	0.286	0.001	4.997
0.01	98.25	#9	2.268	1.696	0.792	0.000	0.004	0.244	0.001	5.005
0.03	97.18	#10	2.368	1.591	0.714	0.000	0.002	0.323	0.002	5.000
0.03	98.43	#11	2.403	1.567	0.653	0.000	0.004	0.369	0.002	4.998
0.01	97.54	#12	2.267	1.688	0.816	0.000	0.005	0.224	0.001	5.001
0.02	98.17	#13	2.259	1.712	0.799	0.000	0.003	0.223	0.001	4.997
0.19	97.56	#14	2.388	1.578	0.688	0.000	0.002	0.322	0.011	4.989
0.02	97.50	#15	2.374	1.594	0.692	0.000	0.004	0.328	0.001	4.993
0.00	97.59	#16	2.260	1.700	0.813	0.000	0.006	0.224	0.000	5.003
0.02	97.98	#17	2.457	1.511	0.605	0.000	0.001	0.427	0.001	5.002
0.11	97.05	#1	2.325	1.650	0.711	0.000	0.005	0.309	0.007	5.007
0.24	97.79	#2	2.515	1.463	0.527	0.000	0.006	0.472	0.014	4.997
0.13	97.24	#3	2.338	1.638	0.706	0.000	0.008	0.302	0.008	5.000
0.24	96.38	#4	2.413	1.555	0.645	0.000	0.009	0.361	0.014	4.997
0.11	97.42	#5	2.336	1.636	0.713	0.000	0.009	0.299	0.006	4.999
0.11	97.69	#6	2.343	1.628	0.699	0.000	0.003	0.333	0.007	5.013
0.18	97.28	#7	2.369	1.598	0.685	0.000	0.009	0.332	0.011	5.004
0.14	96.41	#8	2.308	1.665	0.726	0.000	0.007	0.297	0.008	5.011
0.15	97.62	#9	2.364	1.608	0.687	0.000	0.006	0.324	0.009	4.998
0.15	99.08	#1	2.379	1.602	0.650	0.000	0.008	0.352	0.009	5.000
0.11	98.26	#2	2.310	1.664	0.724	0.000	0.008	0.294	0.007	5.007
0.16	99.82	#3	2.362	1.617	0.667	0.000	0.010	0.338	0.009	5.003
0.16	99.81	#4	2.363	1.614	0.669	0.000	0.013	0.334	0.009	5.002
0.15	99.94	#5	2.344	1.630	0.695	0.000	0.010	0.317	0.009	5.005
0.09	99.16	#6	2.306	1.673	0.727	0.000	0.010	0.279	0.005	5.000
0.10	98.91	#7	2.359	1.615	0.681	0.000	0.007	0.335	0.006	5.003
0.13	99.35	#8	2.373	1.604	0.665	0.000	0.007	0.343	0.008	5.000
0.15	99.76	#9	2.356	1.621	0.671	0.000	0.010	0.341	0.008	5.007
n.d.	99.67	#10	2.375	1.601	0.660	0.000	0.008	0.347	0.005	4.996
0.13	100.10	#1	2.238	1.755	0.760	0.000	0.005	0.252	0.001	5.011
0.08	100.03	#2	2.295	1.701	0.698	0.000	0.003	0.313	0.002	5.012
0.17	100.06	#3	2.238	1.757	0.759	0.000	0.006	0.246	0.000	5.006
2.32	98.72	#4	2.394	1.555	0.602	0.000	0.090	0.372	0.003	5.016
1.73	97.68	#5	2.340	1.632	0.611	0.002	0.068	0.380	0.002	5.035
0.81	98.61	#6	2.353	1.635	0.623	0.001	0.031	0.373	0.001	5.017
0.16	100.46	#7	2.361	1.631	0.636	0.000	0.006	0.376	0.002	5.012
0.19	100.55	#8	2.355	1.634	0.641	0.000	0.007	0.380	0.001	5.018
0.17	100.37	#9	2.257	1.735	0.742	0.000	0.007	0.272	0.001	5.013
0.11	100.07	#10	2.402	1.588	0.606	0.000	0.004	0.407	0.002	5.009
0.23	100.57	#11	2.292	1.690	0.718	0.000	0.009	0.309	0.001	5.019
0.14	100.22	#12	2.440	1.549	0.565	0.000	0.005	0.449	0.003	5.011
0.20	99.92	#14	2.229	1.764	0.764	0.000	0.008	0.246	0.003	5.014

0.13	99.91	#15	2.298	1.694	0.703	0.000	0.005	0.311	0.001	5.011
0.14	100.60	#16	2.379	1.612	0.624	0.000	0.005	0.389	0.002	5.010
0.21	100.70	#17	2.386	1.603	0.624	0.000	0.008	0.380	0.002	5.004
0.19	100.18	#18	2.380	1.615	0.619	0.000	0.007	0.384	0.002	5.006
0.15	100.19	#19	2.567	1.422	0.437	0.000	0.006	0.577	0.005	5.013
0.15	100.26	#20	2.580	1.413	0.419	0.000	0.006	0.586	0.009	5.012
0.08	96.87	#1	2.439	1.536	0.611	0.000	0.008	0.396	0.005	4.995
0.06	96.87	#2	2.426	1.551	0.621	0.000	0.004	0.385	0.004	4.991
0.06	97.64	#3	2.427	1.545	0.628	0.000	0.005	0.391	0.003	4.999
0.10	97.66	#4	2.390	1.588	0.650	0.000	0.006	0.355	0.006	4.995
0.08	97.92	#5	2.435	1.538	0.614	0.000	0.007	0.398	0.004	4.996
0.08	97.59	#6	2.316	1.656	0.736	0.000	0.004	0.282	0.005	4.999
0.06	97.75	#7	2.239	1.737	0.808	0.000	0.004	0.205	0.004	4.997
0.11	97.07	#8	2.340	1.630	0.721	0.000	0.007	0.288	0.007	4.993
0.07	97.79	#9	2.307	1.660	0.752	0.000	0.006	0.273	0.004	5.002
0.07	96.98	#10	2.346	1.613	0.714	0.000	0.025	0.294	0.004	4.996
0.09	97.69	#11	2.331	1.645	0.717	0.000	0.010	0.283	0.005	4.991
0.08	97.75	#12	2.336	1.632	0.722	0.001	0.004	0.301	0.005	5.001
0.07	97.73	#13	2.335	1.640	0.709	0.000	0.008	0.301	0.004	4.997
0.10	97.28	#14	2.337	1.634	0.730	0.000	0.005	0.277	0.006	4.989
0.08	97.52	#15	2.259	1.714	0.792	0.000	0.003	0.227	0.004	4.999
0.03	99.05	#1	2.282	1.694	0.764	0.001	0.000	0.256	0.002	4.999
0.02	98.77	#2	2.302	1.682	0.735	0.000	0.003	0.268	0.001	4.991
0.04	98.56	#3	2.293	1.686	0.742	0.000	0.005	0.273	0.002	5.001
0.02	98.51	#4	2.325	1.657	0.710	0.000	0.005	0.297	0.001	4.995
0.02	98.67	#5	2.288	1.690	0.757	0.000	0.008	0.247	0.001	4.991
0.03	98.51	#6	2.351	1.634	0.678	0.000	0.004	0.326	0.002	4.995
0.05	98.45	#7	2.414	1.570	0.609	0.000	0.005	0.404	0.003	5.005
0.06	98.57	#8	2.350	1.633	0.680	0.000	0.005	0.328	0.003	4.999
0.03	98.94	#9	2.463	1.521	0.569	0.000	0.004	0.438	0.002	4.997
0.05	98.88	#10	2.282	1.694	0.753	0.000	0.008	0.264	0.003	5.004
0.04	99.47	#1	2.315	1.661	0.726	0.001	0.004	0.292	0.002	5.001
0.14	99.39	#2	2.462	1.515	0.582	0.000	0.003	0.428	0.008	4.998
0.08	99.79	#3	2.339	1.637	0.703	0.000	0.007	0.312	0.005	5.003
0.08	99.01	#4	2.331	1.646	0.712	0.000	0.006	0.301	0.005	5.001
0.04	99.12	#5	2.266	1.713	0.777	0.000	0.006	0.231	0.002	4.995
0.08	98.60	#6	2.333	1.637	0.719	0.000	0.006	0.303	0.005	5.003
0.08	99.36	#7	2.349	1.623	0.699	0.000	0.007	0.316	0.005	4.999
0.03	97.59	#8	2.406	1.557	0.652	0.000	0.008	0.383	0.002	5.008
0.01	98.07	#9	2.334	1.638	0.715	0.000	0.006	0.308	0.001	5.002
0.11	97.25	#11	2.396	1.571	0.651	0.000	0.004	0.385	0.006	5.013
0.07	98.19	#12	2.446	1.527	0.584	0.000	0.008	0.445	0.004	5.014
0.07	97.34	#13	2.385	1.580	0.667	0.000	0.005	0.374	0.004	5.015
0.08	98.31	#10	2.361	1.611	0.688	0.000	0.008	0.327	0.004	4.999
0.07	98.34	#11	2.341	1.633	0.707	0.000	0.003	0.315	0.004	5.003
0.06	97.89	#12	2.369	1.607	0.680	0.000	0.005	0.329	0.004	4.994
0.07	97.70	#13	2.363	1.605	0.696	0.000	0.003	0.330	0.004	5.001
0.08	98.28	#14	2.387	1.585	0.658	0.000	0.005	0.365	0.004	5.004
0.07	97.88	#15	2.431	1.551	0.603	0.000	0.001	0.412	0.004	5.002
0.12	98.60	#11	2.365	1.619	0.674	0.000	0.003	0.321	0.007	4.989
0.22	99.18	#12	2.346	1.637	0.682	0.001	0.007	0.315	0.013	5.001
0.02	98.96	#13	2.396	1.588	0.630	0.000	0.006	0.382	0.001	5.003

0.02	98.68	#15	2.340	1.644	0.696	0.000	0.002	0.311	0.001	4.994
0.03	98.65	#16	2.538	1.443	0.496	0.000	0.003	0.519	0.002	5.001
0.02	97.11	#11	2.324	1.662	0.669	0.000	0.003	0.372	0.001	5.031
0.03	97.23	#12	2.353	1.631	0.630	0.000	0.008	0.416	0.002	5.040
0.03	97.78	#13	2.387	1.606	0.610	0.000	0.001	0.413	0.002	5.019
0.01	98.08	#14	2.263	1.720	0.741	0.000	0.004	0.295	0.001	5.024
0.02	97.36	#15	2.309	1.677	0.688	0.000	0.001	0.353	0.001	5.029
0.24	97.90	#1	2.476	1.509	0.549	0.000	0.003	0.452	0.014	5.003
0.13	98.19	#2	2.514	1.463	0.522	0.000	0.004	0.494	0.007	5.004
0.15	97.60	#3	2.474	1.507	0.559	0.000	0.001	0.452	0.009	5.002
0.19	98.84	#1	2.507	1.477	0.524	0.000	0.004	0.474	0.011	4.997
0.14	98.62	#2	2.437	1.548	0.591	0.000	0.005	0.412	0.008	5.001
0.11	98.74	#3	2.485	1.500	0.548	0.000	0.002	0.456	0.006	4.997
0.14	98.21	#4	2.457	1.533	0.568	0.000	0.001	0.428	0.008	4.995
0.13	98.39	#5	2.470	1.519	0.553	0.000	0.001	0.448	0.008	4.999
0.06	98.43	#6	2.360	1.623	0.673	0.000	0.002	0.334	0.003	4.995
0.10	98.79	#7	2.462	1.527	0.559	0.000	0.003	0.442	0.006	4.999
0.07	98.39	#6	2.360	1.619	0.666	0.000	0.003	0.359	0.004	5.011
0.06	98.11	#7	2.355	1.631	0.656	0.000	0.004	0.360	0.004	5.010
0.03	98.54	#8	2.326	1.651	0.717	0.000	0.001	0.306	0.002	5.003
0.06	98.63	#9	2.341	1.632	0.696	0.000	0.006	0.333	0.004	5.012
0.04	98.08	#10	2.300	1.677	0.731	0.000	0.006	0.296	0.002	5.012
0.04	98.21	#11	2.263	1.721	0.759	0.000	0.004	0.259	0.002	5.008
0.06	98.66	#12	2.306	1.670	0.728	0.000	0.005	0.298	0.003	5.010
0.04	98.85	#13	2.311	1.671	0.715	0.000	0.002	0.307	0.002	5.008
0.07	98.42	#14	2.408	1.579	0.612	0.000	0.002	0.401	0.004	5.006
0.07	98.43	#15	2.418	1.565	0.610	0.000	0.003	0.405	0.004	5.005
0.24	98.52	#2	2.532	1.455	0.497	0.000	0.002	0.497	0.014	4.997
0.09	98.67	#3	2.321	1.663	0.710	0.000	0.003	0.293	0.006	4.996
0.10	98.28	#4	2.385	1.601	0.644	0.000	0.000	0.365	0.006	5.001
0.16	98.37	#5	2.491	1.491	0.542	0.000	0.005	0.457	0.009	4.995
0.08	97.82	#6	2.388	1.591	0.645	0.000	0.003	0.376	0.004	5.007
0.14	98.47	#7	2.468	1.514	0.570	0.000	0.005	0.428	0.008	4.993
0.12	97.47	#8	2.397	1.585	0.627	0.000	0.002	0.391	0.007	5.009
0.15	97.16	#9	2.431	1.551	0.599	0.000	0.003	0.412	0.009	5.005
0.09	97.61	#10	2.315	1.660	0.716	0.000	0.001	0.319	0.005	5.016
0.09	98.01	#11	2.326	1.658	0.711	0.000	0.000	0.294	0.005	4.994
0.09	96.98	#12	2.341	1.645	0.685	0.000	0.005	0.316	0.005	4.997
0.21	97.67	#13	2.468	1.513	0.552	0.000	0.006	0.462	0.012	5.013
0.18	97.69	#14	2.474	1.499	0.568	0.000	0.007	0.446	0.011	5.005
0.10	96.99	#15	2.360	1.617	0.693	0.000	0.003	0.312	0.006	4.991
0.14	96.93	#17	2.391	1.574	0.668	0.000	0.006	0.355	0.008	5.002
0.21	97.86	#18	2.488	1.487	0.559	0.000	0.001	0.454	0.012	5.001
0.14	97.06	#19	2.428	1.542	0.636	0.000	0.002	0.377	0.008	4.993
0.22	97.43	#20	2.358	1.617	0.685	0.000	0.009	0.312	0.013	4.994
0.13	97.46	#21	2.385	1.591	0.658	0.000	0.005	0.355	0.008	5.002

End-members

An	Ab
60.6	39.4
67.6	32.4
67.1	32.9
71.3	28.7
53.2	46.8
69.7	30.3
76.5	23.5
72.0	28.0
76.4	23.6
68.9	31.1
63.9	36.1
78.5	21.5
78.2	21.8
68.1	31.9
67.8	32.2
78.4	21.6
58.6	41.4
69.7	30.3
52.8	47.2
70.0	30.0
64.1	35.9
70.5	29.5
67.7	32.3
67.4	32.6
71.0	29.0
68.0	32.0
64.9	35.1
71.1	28.9
66.4	33.6
66.7	33.3
68.7	31.3
72.3	27.7
67.0	33.0
66.0	34.0
66.3	33.7
65.5	34.5
75.1	24.9
69.1	30.9
75.5	24.5
61.8	38.2
61.7	38.3
62.5	37.5
62.8	37.2
62.8	37.2
73.2	26.8
59.8	40.2
69.9	30.1
55.7	44.3
75.6	24.4

69.3	30.7
61.6	38.4
62.2	37.8
61.7	38.3
43.1	56.9
41.7	58.3
60.7	39.3
61.7	38.3
61.6	38.4
64.7	35.3
60.7	39.3
72.3	27.7
79.8	20.2
71.5	28.5
73.4	26.6
70.8	29.2
71.7	28.3
70.6	29.4
70.2	29.8
72.5	27.5
77.7	22.3
74.9	25.1
73.3	26.7
73.1	26.9
70.5	29.5
75.4	24.6
67.5	32.5
60.1	39.9
67.5	32.5
56.5	43.5
74.0	26.0
71.3	28.7
57.6	42.4
69.3	30.7
70.3	29.7
77.1	22.9
70.4	29.6
68.9	31.1
63.0	37.0
69.9	30.1
62.8	37.2
56.8	43.2
64.1	35.9
67.8	32.2
69.2	30.8
67.4	32.6
67.8	32.2
64.3	35.7
59.4	40.6
67.7	32.3
68.4	31.6
62.3	37.7

69.1	30.9
48.9	51.1
64.3	35.7
60.2	39.8
59.6	40.4
71.5	28.5
66.1	33.9
54.8	45.2
51.4	48.6
55.3	44.7
52.5	47.5
58.9	41.1
54.6	45.4
57.0	43.0
55.2	44.8
66.8	33.2
55.8	44.2
65.0	35.0
64.6	35.4
70.1	29.9
67.6	32.4
71.2	28.8
74.6	25.4
71.0	29.0
70.0	30.0
60.4	39.6
60.1	39.9
50.0	50.0
70.8	29.2
63.8	36.2
54.3	45.7
63.2	36.8
57.1	42.9
61.6	38.4
59.2	40.8
69.2	30.8
70.7	29.3
68.4	31.6
54.4	45.6
56.0	44.0
69.0	31.0
65.3	34.7
55.2	44.8
62.8	37.2
68.7	31.3
65.0	35.0

	Borehole	Depth	Sample		wt%					
					SiO2	TiO2	Al2O3	Cr2O3	MgO	CaO
Arthrath prospect	AD25	41.9	ATD2	#1	38.79	4.80	13.59	0.15	17.33	0.00
Arthrath prospect	AD25	41.9	ATD2	#2	39.03	5.09	13.25	0.09	17.03	0.00
Arthrath prospect	AD25	41.9	ATD2	#3	39.40	5.09	13.48	0.20	17.45	0.02
Arthrath prospect	AD25	41.9	ATD2	#4	39.22	5.40	13.07	0.14	16.62	0.00
Arthrath prospect	AD25	62.6	ATD5	#5	39.26	1.38	15.99	0.06	19.48	0.00
Arthrath prospect	AD25	62.6	ATD5	#6	38.62	1.84	15.71	0.00	19.58	0.03
Arthrath prospect	AD25	62.6	ATD5	#7	38.53	1.58	15.27	0.15	18.96	0.00
Arthrath prospect	AD25	62.6	ATD5	#8	38.81	3.35	15.57	0.32	18.14	0.00
Arthrath prospect	AD25	92.45	ATD8	#1	37.86	4.24	14.03	0.13	17.66	0.00
Arthrath prospect	AD25	92.45	ATD8	#2	37.92	5.02	13.46	0.10	16.01	0.00
Arthrath prospect	AD25	92.45	ATD8	#3	37.78	5.02	13.56	0.05	15.87	0.05
Arthrath prospect	AD25	92.45	ATD8	#4	37.59	2.38	14.15	0.10	18.96	0.00
Arthrath prospect	AD25	103	ATD9	#2	37.49	4.69	13.67	0.44	15.14	0.01
Arthrath prospect	AD25	103	ATD9	#4	38.17	3.96	14.46	0.44	16.03	0.00
Arthrath prospect	AD25	103	ATD9	#5	38.55	3.66	14.85	0.51	16.93	0.01
Arthrath prospect	AD25	109.75	ATD11	#1	37.27	5.09	13.59	0.69	16.40	0.00
Arthrath prospect	AD25	109.75	ATD11	#2	37.97	4.56	13.47	0.25	17.65	0.00
Arthrath prospect	AD25	123.8	ATD13	#5	38.19	5.18	13.69	0.14	16.35	0.00
Arthrath prospect	AD25	123.8	ATD13	#6	37.41	3.60	14.34	0.17	16.90	0.02
Arthrath prospect	AD25	123.8	ATD13	#7	38.32	4.77	13.45	0.07	16.06	0.02
Arthrath prospect	AD25	123.8	ATD13	#8	38.47	4.77	13.89	0.00	16.34	0.04
Arthrath prospect	AD25	152.4	ATD18	#1	38.14	3.57	15.35	0.22	21.07	0.02
Arthrath prospect	AD25	152.4	ATD18	#2	37.90	2.51	15.66	0.18	22.30	0.02
Arthrath prospect	AD25	161.45	ATD19	#2	38.04	3.16	14.44	0.18	16.80	0.04
Arthrath prospect	AD25	161.45	ATD19	#3	37.47	4.36	14.22	0.16	15.70	0.01
Arthrath prospect	AD25	216.15	ATD24	#5	39.53	2.85	15.13	0.10	21.22	0.03
Arthrath prospect	AD25	216.15	ATD24	#6	37.92	4.59	14.42	0.23	19.46	0.00
Arthrath prospect	AD25	216.15	ATD24	#7	36.98	5.01	14.77	0.22	19.35	0.01
Arthrath prospect	AD25	216.15	ATD24	#8	38.01	5.10	14.29	0.19	19.40	0.00
Arthrath prospect	AD25	216.15	ATD24	#9	38.68	3.75	15.21	0.19	20.00	0.00
Arthrath prospect	AD25	254.7	ATD26	#3	39.13	3.12	15.32	0.19	19.32	0.01
Arthrath prospect	AD25	254.7	ATD26	#4	37.09	3.37	14.84	0.09	18.05	0.02
Arthrath prospect	AD25	254.7	ATD26	#5	36.20	3.67	14.57	0.49	17.35	0.03
Arthrath prospect	AD25	254.7	ATD26	#6	37.89	3.77	14.88	0.46	16.85	0.03
Arthrath prospect	AD25	341.66	ATD31	#6	38.60	3.20	16.13	0.47	21.55	0.01
Arthrath prospect	AD25	341.66	ATD31	#7	39.13	3.40	14.97	0.28	21.23	0.00
Arthrath prospect	AD25	341.66	ATD31	#8	39.23	3.97	15.28	0.24	21.13	0.00
Littlemill prospect	RD7	48	LMD1	#1	35.34	4.45	13.51	0.27	9.25	0.04
Littlemill prospect	RD7	48	LMD1	#2	35.23	4.98	13.01	0.39	8.73	0.02
Littlemill prospect	RD7	48	LMD1	#3	35.73	5.26	13.22	0.25	9.11	0.02
Littlemill prospect	RD7	48	LMD1	#4	35.69	4.72	13.76	0.24	10.07	0.05
Littlemill prospect	RD7	51.8	LMD25	#1	35.67	4.76	14.05	0.28	10.30	0.01
Littlemill prospect	RD7	51.8	LMD25	#2	36.51	4.39	14.88	0.20	10.84	0.00
Littlemill prospect	RD7	51.8	LMD25	#3	34.47	2.81	16.98	0.16	10.76	0.03
Littlemill prospect	RD7	52.2	LMD2	#5	33.25	2.98	17.59	0.27	10.93	0.59
Littlemill prospect	RD7	52.2	LMD2	#6	35.62	3.40	15.54	0.32	10.99	0.12
Littlemill prospect	RD7	52.2	LMD2	#7	35.03	3.61	15.43	0.30	11.00	0.14
Littlemill prospect	RD22	151.45	LMD12	#1	35.81	4.84	13.82	0.29	10.70	0.02

Littlemill prospect	RD22	151.45	LMD12	#2	35.86	4.01	14.27	0.10	9.87	0.00
Littlemill prospect	RD22	151.45	LMD12	#3	36.75	4.70	14.05	0.20	10.66	0.04
Littlemill prospect	RD22	151.45	LMD12	#4	36.70	4.60	13.62	0.29	10.76	0.01
Littlemill prospect	RD22	151.45	LMD12	#5	36.26	5.14	13.48	0.28	10.89	0.00
Littlemill prospect	RD22	153.7	LMD16	#6	35.19	4.40	13.43	0.09	9.08	0.00
Littlemill prospect	RD22	153.7	LMD16	#7	34.28	4.39	13.71	0.18	9.03	0.02
Littlemill prospect	RD22	153.7	LMD16	#8	35.24	4.54	13.69	0.25	9.08	0.01
Littlemill prospect	RD22	153.7	LMD16	#9	35.21	4.51	13.91	0.23	8.78	0.00
Littlemill prospect	RD22	153.7	LMD16	#10	35.26	4.51	14.01	0.25	9.36	0.00

MnO	FeO	Na2O	K2O	H2O	F	Cl	Subtotal	O=F,Cl	Total	Cations (22 O)	
										Si	Al iv
				(calculated)							
0.00	9.98	0.19	9.55	4.04	0.07	0.00	98.49	0.03	98.46	5.710	2.290
0.03	10.14	0.18	9.85	4.04	0.09	0.00	98.80	0.04	98.77	5.740	2.260
0.00	9.22	0.21	9.50	4.08	0.05	0.01	98.71	0.02	98.69	5.759	2.241
0.02	10.27	0.23	9.67	3.95	0.26	0.03	98.88	0.12	98.76	5.767	2.233
0.00	8.24	1.12	8.16	4.10	0.04	0.01	97.84	0.02	97.82	5.714	2.286
0.03	7.96	1.07	7.72	4.03	0.10	0.02	96.70	0.05	96.65	5.678	2.322
0.00	9.34	0.77	8.08	3.98	0.14	0.01	96.80	0.06	96.74	5.706	2.294
0.02	9.21	0.99	8.28	4.11	0.04	0.02	98.85	0.02	98.83	5.633	2.367
0.00	10.33	0.17	9.35	3.98	0.12	0.02	97.88	0.05	97.83	5.622	2.378
0.01	12.00	0.15	9.61	4.00	0.03	0.01	98.32	0.02	98.31	5.656	2.344
0.00	12.56	0.17	9.51	3.98	0.08	0.01	98.65	0.04	98.61	5.631	2.369
0.00	9.48	0.08	9.56	3.95	0.06	0.03	96.33	0.03	96.30	5.654	2.346
0.00	13.69	0.09	9.15	3.87	0.23	0.09	98.55	0.12	98.43	5.623	2.377
0.00	13.52	0.15	9.35	3.98	0.17	0.07	100.28	0.08	100.20	5.610	2.390
0.00	11.83	0.19	8.77	4.02	0.10	0.11	99.53	0.07	99.46	5.640	2.360
0.00	10.05	0.47	8.69	3.88	0.20	0.02	96.35	0.09	96.26	5.620	2.380
0.00	9.25	0.34	8.98	3.97	0.06	0.03	96.53	0.03	96.50	5.683	2.317
0.01	10.84	0.20	9.43	3.99	0.11	0.00	98.14	0.05	98.09	5.669	2.331
0.00	10.70	0.28	9.12	3.93	0.10	0.01	96.57	0.04	96.53	5.636	2.364
0.00	11.48	0.18	9.63	4.00	0.05	0.01	98.04	0.02	98.02	5.713	2.287
0.00	11.43	0.14	9.18	3.98	0.15	0.00	98.39	0.06	98.32	5.695	2.305
0.00	5.82	0.99	8.48	4.14	0.00	0.00	97.78	0.00	97.78	5.531	2.469
0.00	5.74	1.36	6.91	4.04	0.18	0.00	96.79	0.08	96.72	5.512	2.488
0.03	11.81	0.19	9.02	3.94	0.12	0.10	97.87	0.07	97.79	5.674	2.326
0.05	13.21	0.13	9.18	3.89	0.23	0.06	98.67	0.11	98.56	5.596	2.404
0.00	6.20	0.75	8.48	4.15	0.04	0.04	98.53	0.03	98.50	5.676	2.324
0.00	7.29	0.88	8.59	4.09	0.00	0.00	97.47	0.00	97.47	5.563	2.437
0.00	7.24	0.81	8.81	3.96	0.21	0.04	97.40	0.10	97.31	5.453	2.547
0.03	7.17	0.78	9.00	4.05	0.11	0.02	98.16	0.05	98.11	5.552	2.448
0.00	7.56	0.81	8.64	4.11	0.08	0.02	99.04	0.04	99.00	5.578	2.422
0.04	7.94	0.34	8.98	4.08	0.10	0.05	98.63	0.05	98.57	5.671	2.329
0.00	9.78	0.48	8.61	3.92	0.16	0.00	96.41	0.07	96.35	5.564	2.436
0.00	9.87	0.41	8.39	3.89	0.09	0.01	94.96	0.04	94.92	5.524	2.476
0.00	10.57	0.47	8.19	4.00	0.05	0.03	97.17	0.03	97.14	5.634	2.366
0.00	5.47	1.55	7.84	4.10	0.21	0.02	99.13	0.09	99.03	5.504	2.496
0.00	5.89	1.20	8.45	4.06	0.24	0.01	98.85	0.10	98.75	5.616	2.384
0.00	6.15	1.53	7.93	4.20	0.04	0.03	99.71	0.02	99.69	5.572	2.428
0.03	22.58	0.05	9.29	3.74	0.16	0.05	98.75	0.08	98.67	5.542	2.458
0.05	22.70	0.07	9.64	3.71	0.19	0.03	98.76	0.09	98.67	5.548	2.415
0.00	22.06	0.06	9.80	3.77	0.17	0.04	99.47	0.08	99.39	5.559	2.425
0.00	20.22	0.06	9.83	3.79	0.13	0.01	98.55	0.06	98.49	5.553	2.447
0.00	19.90	0.13	9.86	3.83	0.07	0.03	98.89	0.04	98.86	5.523	2.477
0.00	18.59	0.12	9.67	3.85	0.16	0.02	99.23	0.07	99.16	5.572	2.428
0.04	18.98	0.14	9.90	3.86	0.00	0.03	98.16	0.01	98.15	5.348	2.652
0.04	18.39	0.15	7.84	3.56	0.50	0.07	96.13	0.23	95.90	5.230	2.770
0.00	19.82	0.18	9.44	3.78	0.23	0.08	99.53	0.12	99.41	5.461	2.539
0.02	20.16	0.14	9.22	3.80	0.13	0.10	99.08	0.08	99.00	5.405	2.595
0.01	19.14	0.12	9.57	3.79	0.16	0.03	98.30	0.07	98.22	5.553	2.447

0.00	21.30	0.06	9.42	3.75	0.23	0.02	98.87	0.10	98.77	5.568	2.432
0.00	18.90	0.07	9.50	3.81	0.20	0.03	98.90	0.09	98.81	5.634	2.366
0.02	18.78	0.06	9.80	3.74	0.30	0.05	98.72	0.14	98.58	5.654	2.346
0.00	19.55	0.07	9.61	3.80	0.21	0.02	99.31	0.09	99.22	5.570	2.430
0.00	22.50	0.05	9.84	3.80	0.01	0.00	98.39	0.01	98.38	5.549	2.451
0.00	21.55	0.07	9.41	3.72	0.03	0.01	96.40	0.02	96.39	5.497	2.503
0.00	22.16	0.08	9.72	3.77	0.09	0.02	98.64	0.04	98.60	5.531	2.469
0.00	22.18	0.05	9.64	3.76	0.10	0.00	98.37	0.04	98.33	5.537	2.463
0.00	21.26	0.02	9.66	3.75	0.16	0.01	98.25	0.07	98.18	5.529	2.471

Al vi	Ti	Cr	Fe	Mn	Mg	Ca	Na	K	OH*	F	Cl	Total
0.068	0.531	0.017	1.229	0.000	3.803	0.000	0.055	1.792	3.966	0.034	0.000	19.495
0.037	0.563	0.011	1.247	0.003	3.734	0.000	0.052	1.848	3.960	0.040	0.000	19.493
0.080	0.560	0.023	1.126	0.000	3.801	0.003	0.059	1.771	3.975	0.022	0.003	19.424
0.033	0.597	0.017	1.263	0.002	3.642	0.000	0.064	1.814	3.871	0.122	0.007	19.433
0.456	0.151	0.007	1.003	0.000	4.227	0.000	0.316	1.515	3.981	0.016	0.003	19.676
0.400	0.203	0.000	0.978	0.004	4.291	0.004	0.306	1.448	3.949	0.047	0.004	19.635
0.370	0.176	0.017	1.156	0.000	4.185	0.000	0.221	1.525	3.930	0.066	0.004	19.650
0.297	0.365	0.036	1.118	0.003	3.926	0.000	0.279	1.532	3.977	0.019	0.004	19.557
0.078	0.474	0.016	1.282	0.000	3.909	0.000	0.049	1.771	3.940	0.055	0.006	19.579
0.023	0.563	0.012	1.497	0.001	3.560	0.000	0.043	1.828	3.982	0.015	0.004	19.527
0.014	0.563	0.005	1.566	0.000	3.526	0.009	0.049	1.807	3.960	0.038	0.002	19.540
0.163	0.269	0.011	1.192	0.000	4.253	0.000	0.025	1.834	3.964	0.029	0.007	19.746
0.039	0.529	0.053	1.717	0.000	3.386	0.001	0.027	1.750	3.870	0.108	0.022	19.502
0.115	0.437	0.051	1.662	0.000	3.512	0.000	0.043	1.752	3.907	0.077	0.016	19.573
0.201	0.403	0.059	1.447	0.000	3.691	0.002	0.054	1.636	3.926	0.046	0.028	19.493
0.036	0.578	0.083	1.267	0.000	3.686	0.000	0.138	1.672	3.902	0.093	0.005	19.458
0.058	0.513	0.029	1.157	0.000	3.938	0.000	0.099	1.714	3.965	0.027	0.008	19.509
0.065	0.578	0.016	1.345	0.002	3.619	0.000	0.058	1.786	3.947	0.053	0.000	19.469
0.182	0.408	0.020	1.348	0.000	3.795	0.003	0.081	1.752	3.952	0.046	0.002	19.589
0.077	0.535	0.008	1.432	0.000	3.570	0.003	0.051	1.830	3.975	0.022	0.004	19.507
0.118	0.531	0.000	1.415	0.000	3.606	0.006	0.039	1.733	3.929	0.071	0.000	19.448
0.155	0.389	0.025	0.706	0.000	4.555	0.003	0.278	1.569	4.000	0.000	0.000	19.679
0.197	0.275	0.021	0.698	0.000	4.834	0.003	0.382	1.282	3.916	0.083	0.001	19.692
0.212	0.354	0.021	1.473	0.004	3.735	0.006	0.055	1.716	3.918	0.057	0.025	19.577
0.099	0.490	0.019	1.650	0.006	3.495	0.002	0.038	1.749	3.876	0.109	0.015	19.547
0.237	0.308	0.011	0.745	0.000	4.543	0.004	0.210	1.554	3.972	0.019	0.009	19.612
0.057	0.506	0.027	0.894	0.000	4.256	0.000	0.251	1.607	3.999	0.000	0.001	19.599
0.021	0.556	0.026	0.893	0.000	4.254	0.001	0.232	1.656	3.893	0.097	0.010	19.638
0.012	0.560	0.022	0.876	0.004	4.223	0.000	0.222	1.676	3.944	0.051	0.005	19.596
0.164	0.407	0.022	0.912	0.000	4.299	0.000	0.225	1.590	3.959	0.037	0.004	19.619
0.288	0.340	0.021	0.962	0.005	4.174	0.002	0.095	1.660	3.943	0.045	0.012	19.548
0.187	0.381	0.011	1.226	0.000	4.037	0.002	0.140	1.648	3.925	0.075	0.000	19.633
0.145	0.422	0.059	1.260	0.000	3.948	0.004	0.120	1.634	3.955	0.042	0.003	19.591
0.241	0.421	0.054	1.315	0.000	3.734	0.005	0.136	1.552	3.972	0.022	0.006	19.458
0.216	0.343	0.053	0.652	0.000	4.580	0.001	0.427	1.425	3.900	0.095	0.005	19.697
0.148	0.367	0.032	0.707	0.000	4.541	0.000	0.333	1.546	3.889	0.109	0.002	19.675
0.129	0.424	0.027	0.731	0.000	4.473	0.000	0.421	1.436	3.975	0.018	0.006	19.640
0.039	0.525	0.033	2.962	0.004	2.161	0.007	0.016	1.857	3.910	0.077	0.013	19.605
0.000	0.590	0.048	2.989	0.006	2.050	0.004	0.022	1.936	3.896	0.097	0.007	19.609
0.000	0.615	0.031	2.871	0.000	2.114	0.003	0.017	1.944	3.908	0.082	0.010	19.579
0.077	0.553	0.029	2.631	0.000	2.335	0.008	0.017	1.950	3.934	0.064	0.002	19.600
0.087	0.554	0.034	2.577	0.000	2.377	0.002	0.039	1.947	3.958	0.034	0.008	19.617
0.248	0.504	0.024	2.373	0.000	2.466	0.000	0.036	1.882	3.918	0.077	0.005	19.533
0.453	0.328	0.020	2.463	0.005	2.488	0.005	0.042	1.959	3.992	0.000	0.008	19.763
0.490	0.353	0.033	2.419	0.005	2.563	0.099	0.046	1.572	3.733	0.247	0.020	19.580
0.269	0.392	0.039	2.542	0.000	2.512	0.020	0.054	1.847	3.866	0.112	0.021	19.674
0.212	0.419	0.036	2.601	0.003	2.530	0.024	0.042	1.814	3.909	0.065	0.026	19.682
0.078	0.565	0.035	2.483	0.001	2.473	0.003	0.036	1.894	3.915	0.076	0.008	19.568

0.180	0.468	0.012	2.766	0.000	2.285	0.000	0.017	1.866	3.880	0.114	0.005	19.593
0.172	0.542	0.024	2.424	0.000	2.436	0.006	0.021	1.858	3.896	0.097	0.007	19.482
0.127	0.533	0.035	2.419	0.002	2.472	0.001	0.017	1.926	3.840	0.148	0.012	19.531
0.011	0.594	0.034	2.512	0.000	2.494	0.000	0.021	1.884	3.893	0.102	0.005	19.551
0.045	0.521	0.011	2.967	0.000	2.133	0.000	0.015	1.979	3.993	0.007	0.000	19.673
0.089	0.529	0.023	2.890	0.000	2.158	0.003	0.021	1.926	3.980	0.017	0.003	19.639
0.064	0.536	0.031	2.909	0.000	2.124	0.001	0.025	1.947	3.950	0.045	0.005	19.637
0.116	0.533	0.029	2.917	0.000	2.058	0.000	0.014	1.934	3.949	0.050	0.001	19.600
0.119	0.532	0.030	2.788	0.000	2.188	0.001	0.006	1.933	3.919	0.079	0.002	19.598

Mg#

0.76
0.75
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0.42
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0.42
0.47
0.48
0.51
0.50
0.51
0.50
0.49
0.50

0.45
0.50
0.51
0.50
0.42
0.43
0.42
0.41
0.44