ASX ANNOUNCEMENT

15 February 2019

Further High Grade Lithium and Tin Mineralisation Confirmed at Roche Dure

Highlights

- AVZ reports one of the best drill results from Manono to date within **MO18DD072** intersecting **231.83m* @ 1.73%Li_2O & 1,089ppm Sn** (including 1.64m of internal waste and 2.62m core loss) from ground surface on drill section 7800mN.
- Further high-grade lithium and tin mineralisation defined in infill drilling at Manono.
- Resource category upgrades expected from recent shallow drill holes and "fanned" drill holes drilled to target mineralised pegmatite immediately below the water filled open pit
- Results from the 8 holes in this drill program will be included in the next iteration of the Mineral Resource estimation

** Down-hole length. Additional drilling is required to confirm the true-thickness of the pegmatites.*

AVZ's Managing Director Mr Nigel Ferguson commented: *"The Roche Dure prospect continues to impress with excellent drilling results from the last 8 drill holes. These were specifically designed to upgrade resource confidence through resource category upgrades within the pegmatite mineralisation directly below the historical Roche Dure open pit. This data will be used in mining studies that are currently underway as part of the Definitive Feasibility Study. All hole have confirmed spodumene mineralisation at shallow depths as well as including sharp, shallow transitions from weathered upper material to fresh underlying pegmatite. This information augers well for the planning of mine scheduling within the Roche Dure prospect as it brings higher category mineral resources closer to surface."*

AVZ Minerals Limited (ASX: AVZ) is pleased to report it has received further strong results from its Mineral Resource drilling at the Manono Lithium Project in the Democratic Republic of Congo. It has received results from the final eight diamond drill holes at Roche Dure, none of which were included in the recently updated JORC Mineral Resource estimate reported in late November 2018.

Results from the 8 holes are detailed in the table below:

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Issued Capital
1,888 M Ordinary Shares

Market Cap
$70 M

ASX Code: AVZ

Hole I.D.	Section	Intersections of the Roche Dure pegmatite
MO18DD072	7800mN	**0.00m – 231.83m; 231.83m @ 1.73%Li_2O & 1,089ppm Sn (with 1.64m of internal waste and 2.62m core loss)**
MO18DD077	Drilled off section from 7500mN	**0.45m – 112.18m; 111.73m @ 1.80%Li_2O & 1,118ppm Sn** 135.53m – 171.25m; 35.72m @ 1.54%Li_2O & 893ppm Sn (with 0.21m of core loss)
MO18DD078	Drilled down dip on section 7300mN	31.65m – 33.57m; 1.92m @ 0.03%Li_2O & 299ppm Sn 56.00m – 92.21m; 36.21m @ 0.20%Li_2O & 908ppm Sn (with 7.08m of core loss) 96.12m – 117.10m; 20.98m @ 1.98%Li_2O & 1,090ppm Sn **128.83m – 305.49m; 176.66m @ 1.57%Li_2O & 1,143ppm Sn** 307.52m – 311.05m; 3.53m @ 1.22%Li_2O & 2,786ppm Sn 315.82m – 320.78m; 4.96m @ 0.60%Li_2O & 493ppm Sn with 2.49m of core loss
MO18DD079	Shallow fan hole drilled along strike from SW edge of open pit	0.0m – 23.85m; 23.85m @ 0.19%Li_2O & 1,274ppm Sn (with 14.29m of core loss) **24.06m – 300.26m; 276.20m @ 1.45%Li_2O & 1,035ppm Sn (with 0.15m of core loss)** and including 147.0m – 300.26m; 153.26m @ 1.87%Li_2O & 954ppm Sn
MO18DD080	Shallow fan hole drilled along strike from SW edge of open pit	0.0m – 15.0m; 15.0m @ 0.12%Li_2O & 1,009ppm Sn (with 4.12m of core loss) **15.0m – 159.98m; 144.98 @ 0.70%Li_2O & 1,193ppm Sn (with 0.53m of core loss)** and including 15.00m – 68.00m; 53.00m @ 0.98%Li_2O & 1,252ppm Sn (with 0.3m of core loss) and 95.23 – 130.00m; 34.77m @ 0.99%Li_2O & 1,013ppm Sn
MO18DD081	Shallow fan hole drilled along strike from SW edge of open pit	1.0m – 14.25m; 13.25m @ 0.12%Li_2O & 1,219ppm Sn (with 1.35m of core loss) 15.35m – 131.15m; 115.8 @ 0.5%Li_2O & 1,272ppm Sn (with 1.65m of core loss and 1.47m of internal waste) and including **26.0m – 60.0m; 34.0m @ 1.0%Li_2O & 1,486ppm Sn**
MO18DD082	Shallow fan hole drilled along strike from SW edge of open pit	0.0m – 13.0m; 13.0m @ 0.16%Li_2O & 566ppm Sn (with 3.14m of core loss) **13.0m – 300.18m; 287.18m @ 1.64%Li_2O & 1,120ppm Sn (with 1.02m of core loss)**
MO18DD083	Shallow fan hole drilled across strike from SW edge of open pit	**0.0m – 106.24m; 106.24 @ 0.59%Li_2O & 1,302ppm Sn (with 5.66m of core loss)** and including 3.0m – 28.0m; 25.0m @ 0.95%Li_2O & 1,450ppm Sn (with 4.55m of core loss) and 71.0 – 98.0m; 27.0m @ 1.01%Li_2O & 1,266ppm Sn

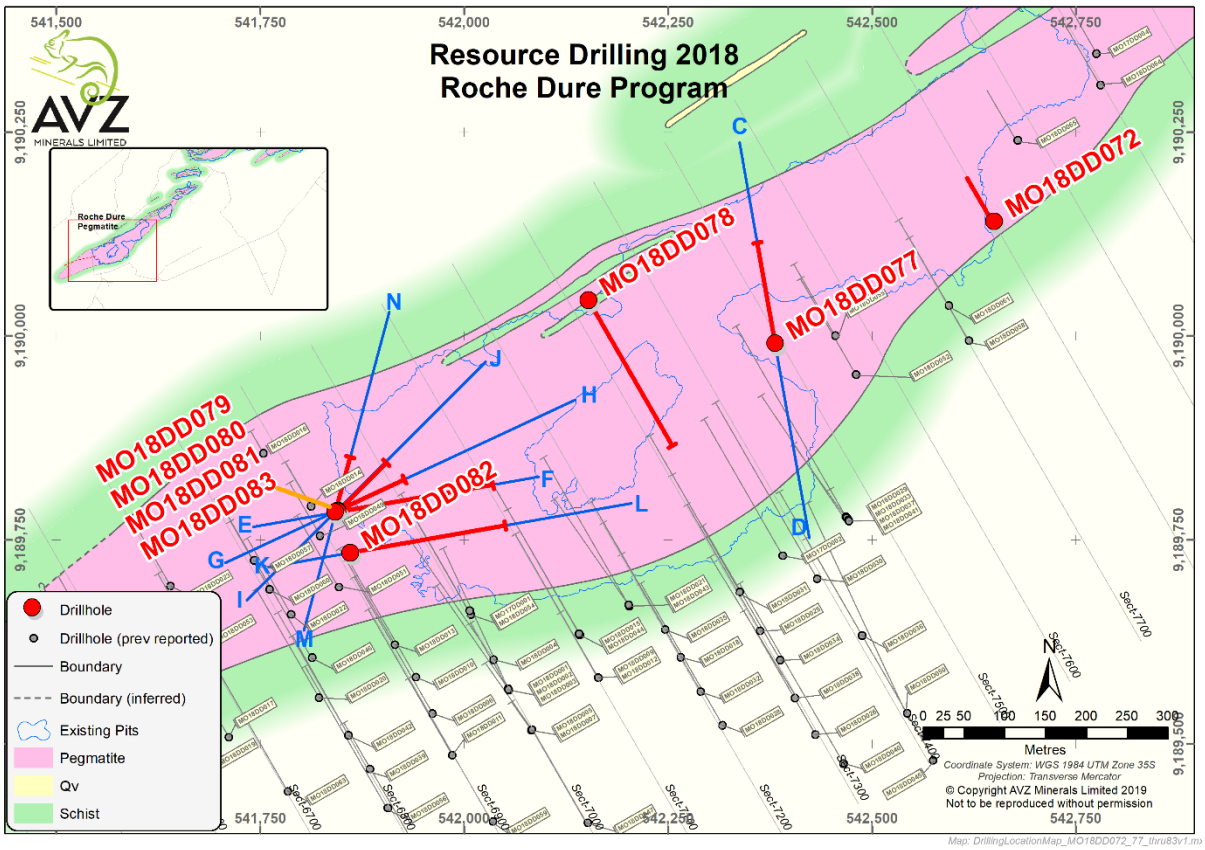

Figure 1: Locations of drillholes MO18DD072, 077, 078, 079. 080, 081, 082 and MO18D083

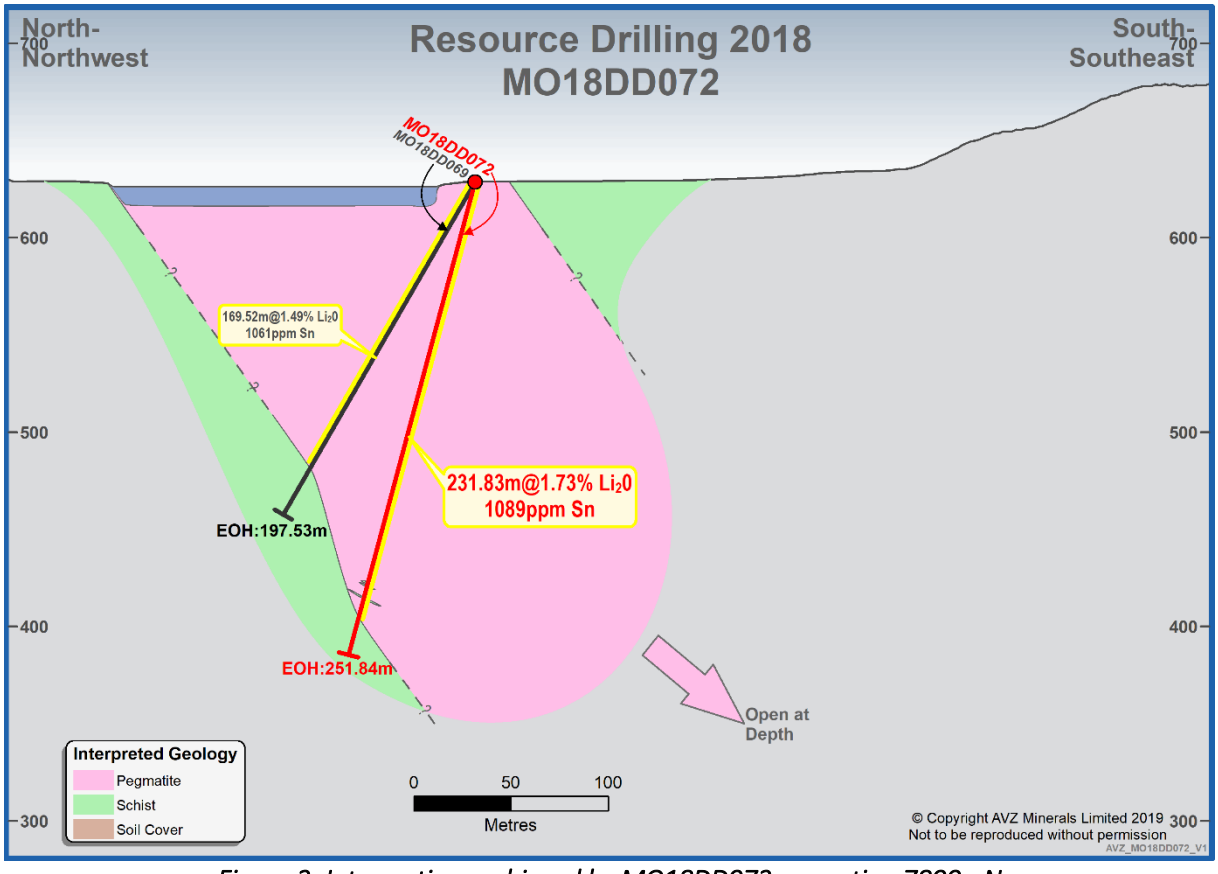

Figure 2: Intersections achieved by MO18DD072 on section 7800mN

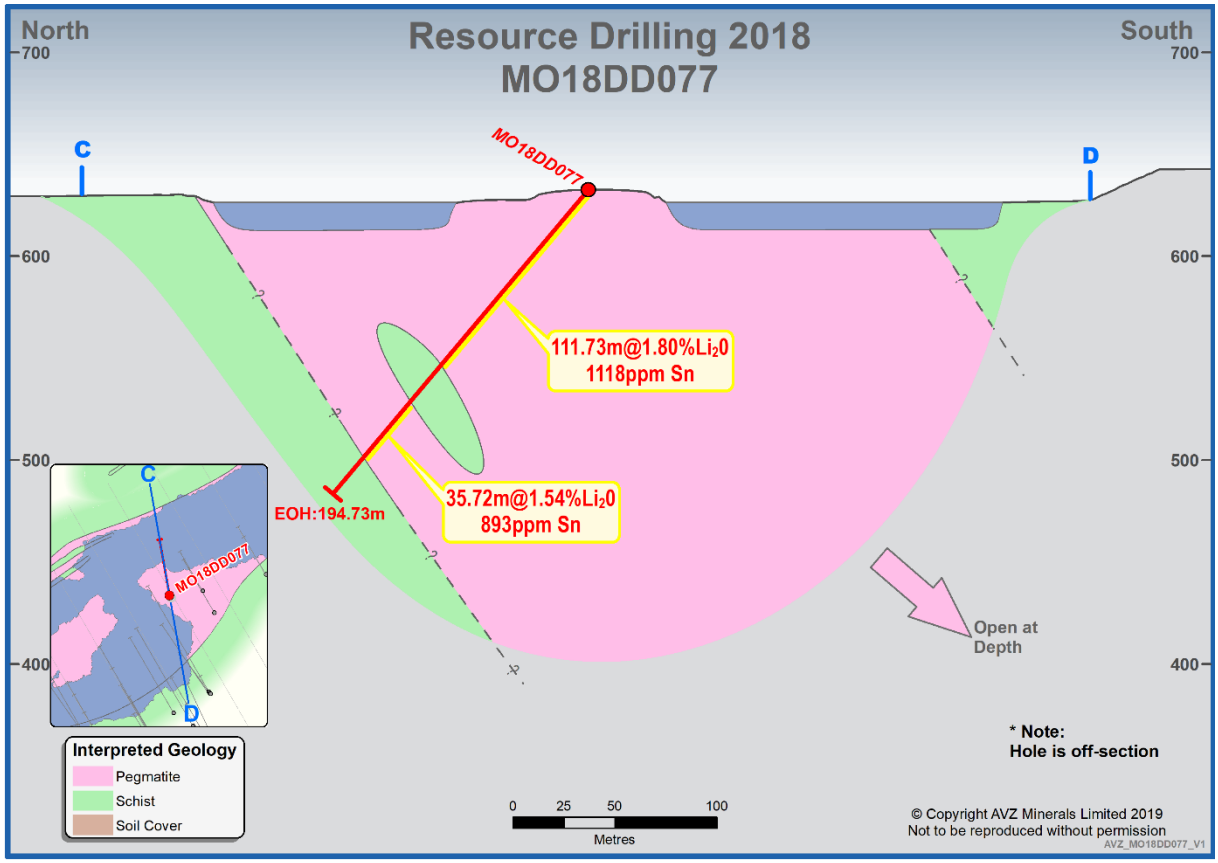

Figure 3: Intersections achieved by MO18DD077 on an oblique hole drilled from section 7500mN

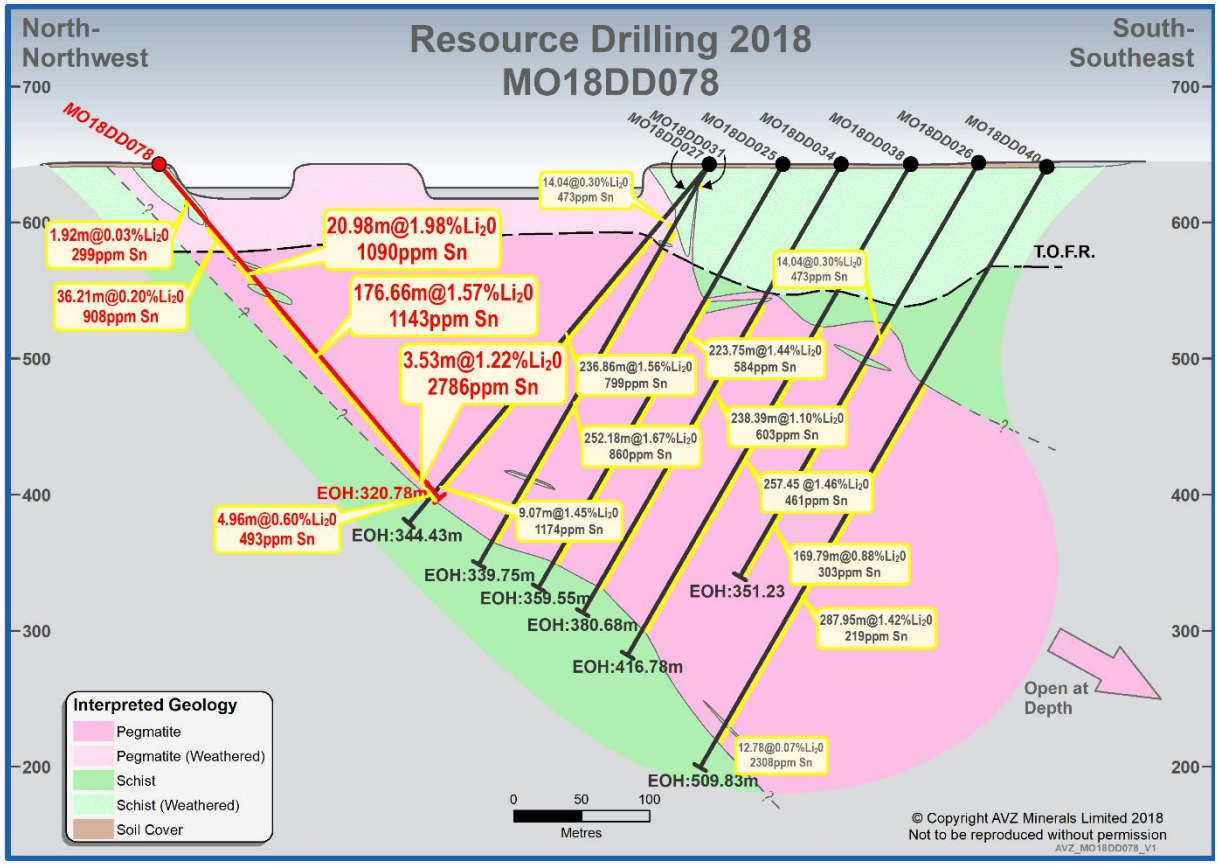

Figure 4: Intersections achieved by MO18DD078 drilled down dip on section 7300mN

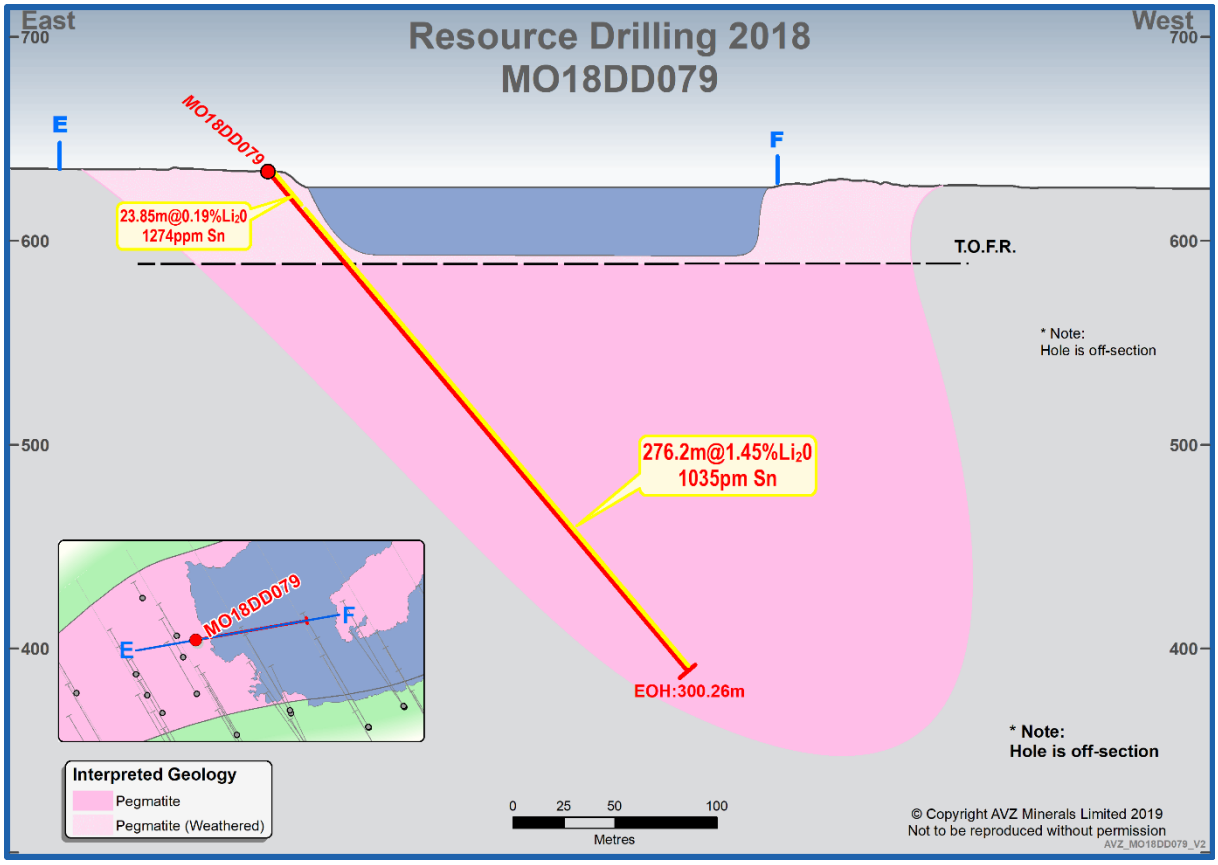

Figure 5: Intersections achieved by MO18DD079 drilled along strike from SW edge of open pit

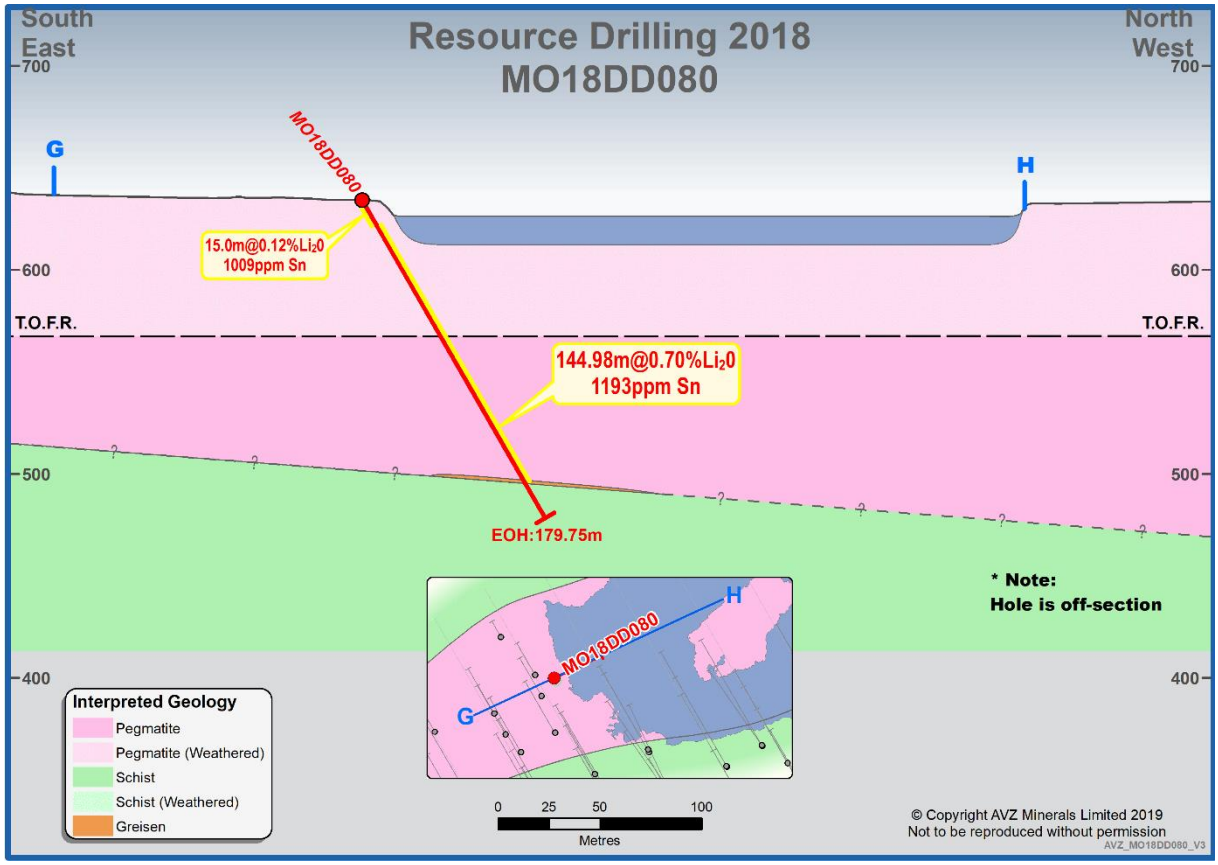

Figure 6: Intersections achieved by MO18DD080 drilled along strike from SW edge of open pit

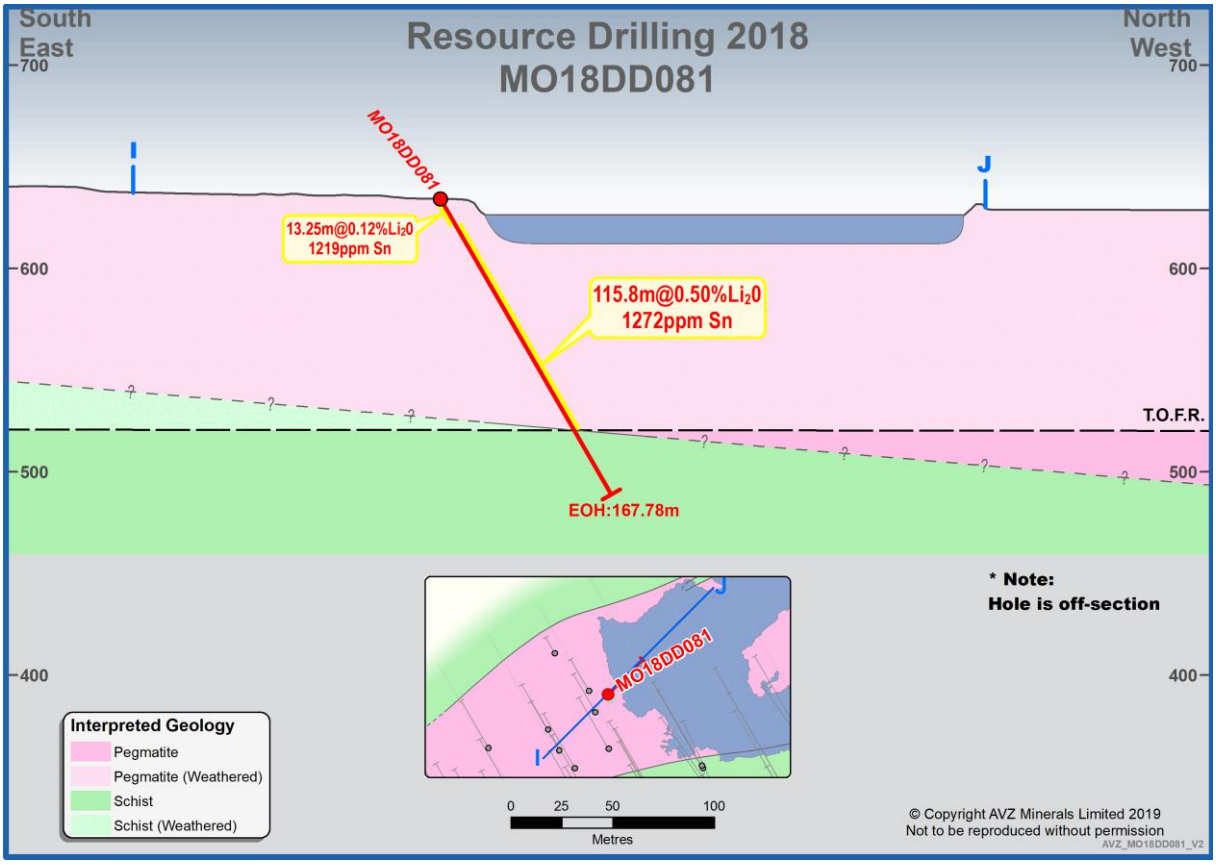

Figure 7: Intersections achieved by MO18DD081 drilled along strike from SW edge of open pit

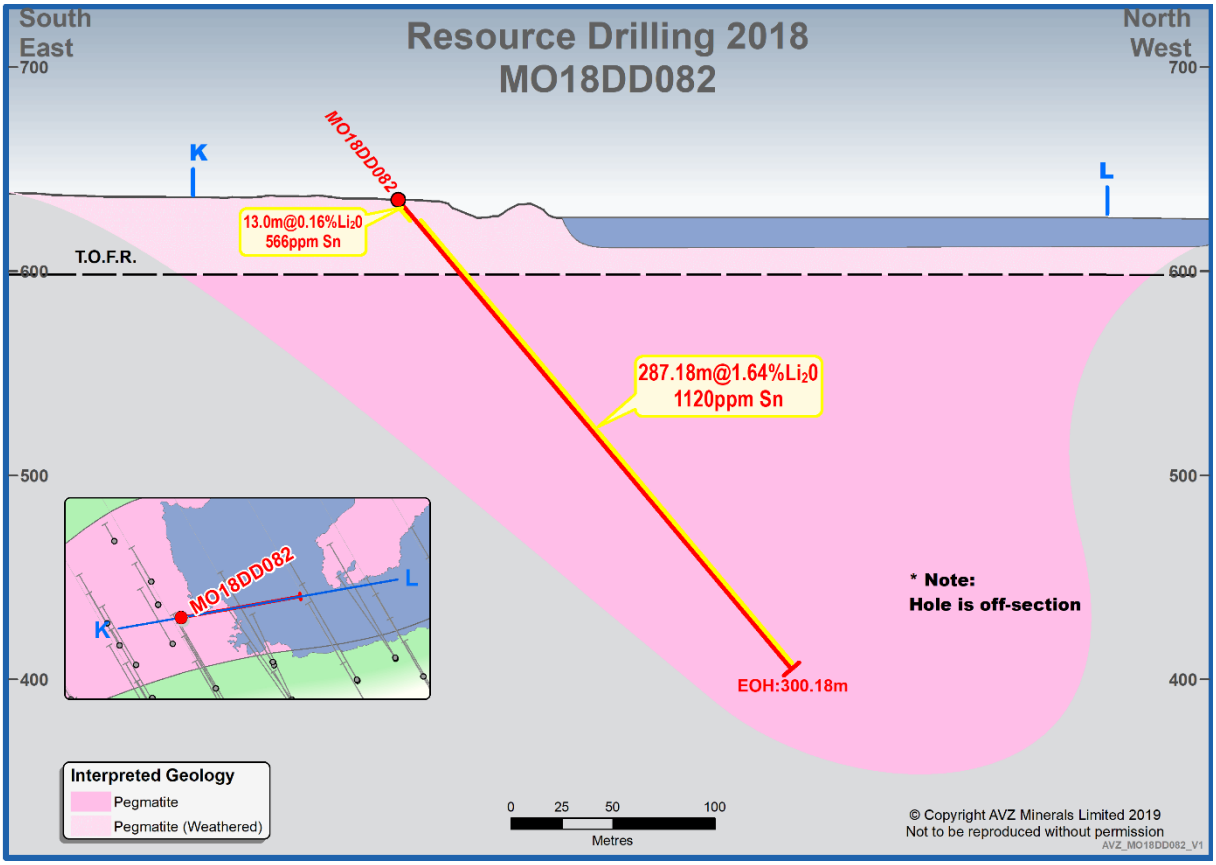

Figure 8: Intersections achieved by MO18DD082 drilled along strike from SW edge of open pit

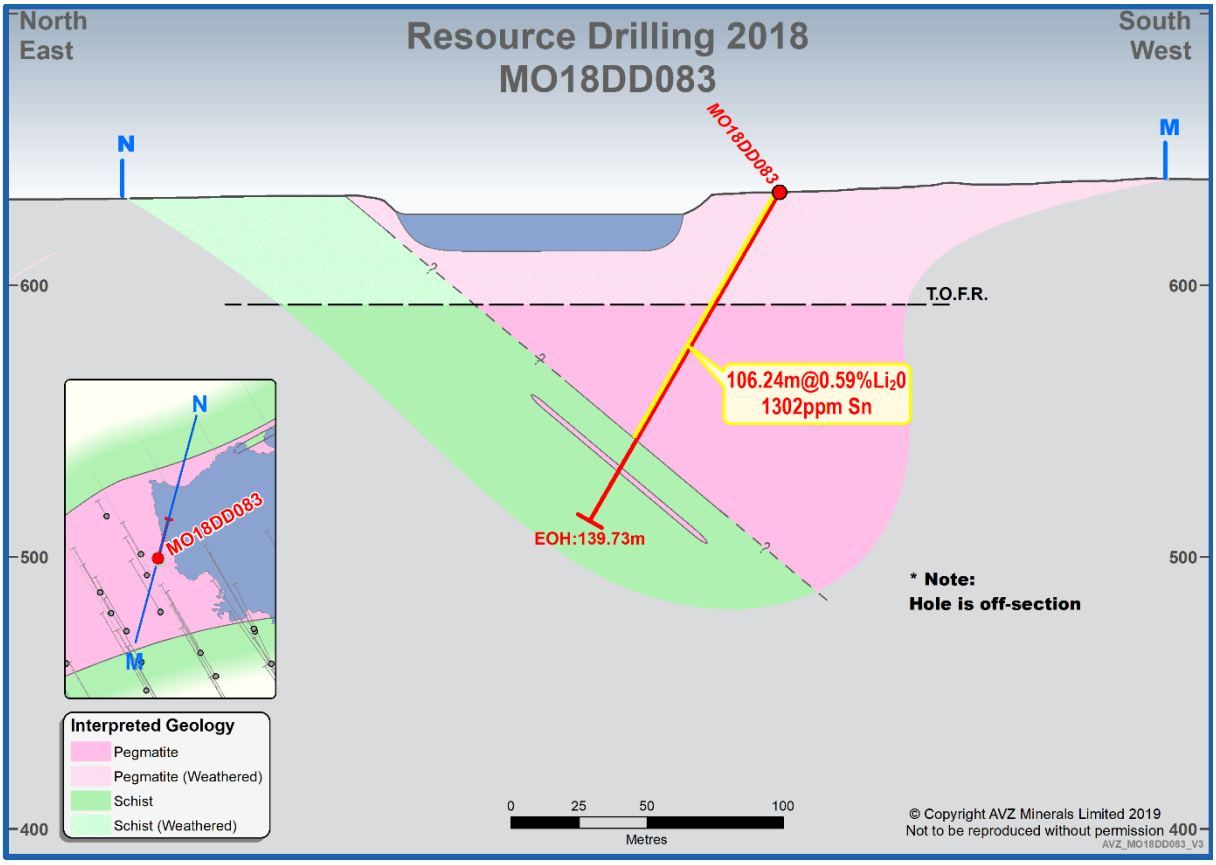

Figure 9: Intersections achieved by MO18DD083 drilled across strike from SW edge of open pit

For further information, visit www.avzminerals.com.au or contact:

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Competent Person's Statement

The information in this report that relates to geology and the exploration results is based on information compiled by Mr. Michael Cronwright, a Competent Person whom is a fellow of The Geological Society of South Africa and Pr. Sci. Nat. (Geological Sciences) registered with the South African Council for Natural Professions. Mr. Cronwright is a full-time employee of The MSA Group Pty Ltd. Mr Cronwright has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr. Cronwright consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

Appendix 1

Collar Table for holes *MO18DD072, 077, 078, 079, 080, 081, 082 and MO18DD083 (* - HH GPS positions)*

Drill Hole_ID	Drilling Method	Section Line	Easting (mE)	Northing (mN)	Elevation (m)	Datum	Zone	Dip (degrees)	Azimuth (mag degrees)	EOH (m)
MO18DD072	DDH	7800	542649.3	9190140.7	643.3	WGS84	35S	-75	330	251.84
MO18DD077	DDH	N/A	542382.4	9189994.8	647.69	WGS84	35S	-50	350	194.73
MO18DD078	DDH	7300	542154.3	9190047.5	646.41	WGS84	35S	-50	150	320.78
MO18DD079*	DDH	N/A	541845	9189784	642	WGS84	35S	-50	80	300.26
MO18DD080*	DDH	N/A	541845	9189786	643	WGS84	35S	-60	65	179.75
MO18DD081*	DDH	N/A	541845	9189785	643	WGS84	35S	-60	45	167.78
MO18DD082*	DDH	N/A	541860	9189734	646	WGS84	35S	-50	80	300.18
MO18DD083*	DDH	N/A	541842	9189784	644	WGS84	35S	-60	15	139.73

Appendix 2

Down-hole Survey Table *MO18DD072, 077, 078, 079, 080, 081, 082 and MO18DD083*

Hole_ID	Depth (m)	Inclination (deg)	Azimuth (deg)
MO18DD072	0	-75	330
MO18DD072	30	-75	328
MO18DD072	60	-75	328
MO18DD072	90	-75	329
MO18DD072	120	-75	330
MO18DD072	150	-75	331
MO18DD072	180	-76	331
MO18DD072	210	-75	332
MO18DD072	240	-76	329
MO18DD072	251	-76	328
MO18DD077	0	-50	350
MO18DD077	30	-49	352
MO18DD077	60	-49	352
MO18DD077	90	-48	353
MO18DD077	120	-47	353
MO18DD077	150	-46	354
MO18DD077	180	-45	354
MO18DD077	194	-45	354
MO18DD078	0	-50	150
MO18DD078	30	-51	147
MO18DD078	60	-51	147
MO18DD078	90	-50	146
MO18DD078	120	-50	147
MO18DD078	150	-48	147
MO18DD078	180	-47	147
MO18DD078	210	-45	148
MO18DD078	240	-44	148
MO18DD078	270	-43	149

MO18DD078	300	-42	148
MO18DD078	320	-42	148
MO18DD079	0	-50	80
MO18DD079	30	-50	86
MO18DD079	60	-49	87
MO18DD079	90	-49	86
MO18DD079	120	-48	87
MO18DD079	150	-48	88
MO18DD079	180	-48	88
MO18DD079	210	-47	87
MO18DD079	240	-46	88
MO18DD079	270	-46	88
MO18DD079	300	-45	89
MO18DD080	0	-60	65
MO18DD080	30	-60	66
MO18DD080	60	-59	65
MO18DD080	90	-59	65
MO18DD080	120	-58	65
MO18DD080	150	-57	65
MO18DD080	179	-57	65
MO18DD081	0	-60	45
MO18DD081	30	-61	46
MO18DD081	60	-60	46
MO18DD081	90	-59	46
MO18DD081	120	-58	47
MO18DD081	150	-58	47
MO18DD081	167	-58	47
MO18DD082	0	-50	80
MO18DD082	30	-50	81
MO18DD082	60	-49	81
MO18DD082	90	-48	81
MO18DD082	120	-47	82
MO18DD082	150	-46	82
MO18DD082	180	-45	82
MO18DD082	210	-44	83
MO18DD082	240	-43	83
MO18DD082	270	-42	84
MO18DD082	300	-41	84
MO18DD083	0	-60	15
MO18DD083	30	-61	12
MO18DD083	60	-60	12
MO18DD083	90	-61	14
MO18DD083	120	-61	14
MO18DD083	139	-61	14

Appendix 3

Assay Results for holes *MO18DD072, 077, 078, 079, 080, 081, 082 and MO18DD083*

Drill Hole ID	From (m)	To (m)	Lithology	DH Samp ID	Li2O (%)	Sn (ppm)
MO18DD072	0	0.8	Peg	44001	0.379	252
MO18DD072	0.8	1.5	LC	NS_72_1		
MO18DD072	1.5	2	Peg	44002	1.06	602
MO18DD072	2	3	Peg	44003	1.355	520
MO18DD072	3	4	Peg	44004	2.02	742
MO18DD072	4	5	Peg	44005	2.2	836
MO18DD072	5	5.9	Peg	44006	1.34	1460
MO18DD072	5.9	7	Peg	44007	1.515	1570
MO18DD072	7	8	Peg	44008	1.5	1050
MO18DD072	8	9	Peg	44009	1.115	876
MO18DD072	9	9.18	LC	NS_72_2		
MO18DD072	9.18	10	Peg	44011	2.39	1100
MO18DD072	10	11	Peg	44012	1.84	816
MO18DD072	11	12	Peg	44013	0.601	1810
MO18DD072	12	13	Peg	44014	1.02	567
MO18DD072	13	14	Peg	44016	1.83	1190
MO18DD072	14	15	Peg	44017	2.01	1840
MO18DD072	15	16.28	Peg	44018	1.34	949
MO18DD072	16.28	17	LC	NS_72_3		
MO18DD072	17	18.4	Peg	44019	1.48	1330
MO18DD072	18.4	18.9	LC	NS_72_4		
MO18DD072	18.9	20	Peg	44020	1.96	1130
MO18DD072	20	21	Peg	44021	2.1	694
MO18DD072	21	22	Peg	44022	1.72	1150
MO18DD072	22	23	Peg	44023	1.6	1450
MO18DD072	23	24	Peg	44024	1.715	1220
MO18DD072	24	25	Peg	44026	1.65	1430
MO18DD072	25	26	Peg	44027	1.79	1180
MO18DD072	26	27	Peg	44028	1.84	1500
MO18DD072	27	28.36	Peg	44029	2.04	1370
MO18DD072	28.36	28.71	LC	NS_72_5		
MO18DD072	28.71	30	Peg	44031	1.365	482
MO18DD072	30	31	Peg	44032	1.225	2610
MO18DD072	31	32	Peg	44033	1.675	395
MO18DD072	32	33	Peg	44034	1.96	943
MO18DD072	33	34	Peg	44036	2.57	1760
MO18DD072	34	35	Peg	44037	2.18	452
MO18DD072	35	36	Peg	44038	2.14	995
MO18DD072	36	37	Peg	44039	2.26	2300
MO18DD072	37	38	Peg	44040	2.01	1690
MO18DD072	38	39	Peg	44041	1.53	754
MO18DD072	39	40	Peg	44042	0.939	1310
MO18DD072	40	41	Peg	44043	1.595	1800
MO18DD072	41	42	Peg	44044	1.495	3760

MO18DD072	42	43	Peg	44045	1.58	685
MO18DD072	43	44	Peg	44046	2.06	1160
MO18DD072	44	45	Peg	44047	2.41	3820
MO18DD072	45	46	Peg	44048	2.38	458
MO18DD072	46	47	Peg	44049	3.06	400
MO18DD072	47	48	Peg	44051	1.35	1040
MO18DD072	48	49	Peg	44052	1.435	1210
MO18DD072	49	50	Peg	44053	1.875	1260
MO18DD072	50	51	Peg	44054	1.955	1980
MO18DD072	51	52	Peg	44056	1.61	1390
MO18DD072	52	53	Peg	44057	1.995	1110
MO18DD072	53	54	Peg	44058	1.6	2050
MO18DD072	54	55	Peg	44059	1.285	1150
MO18DD072	55	56	Peg	44060	1.7	1890
MO18DD072	56	57	Peg	44061	1.415	912
MO18DD072	57	58	Peg	44062	1.1	1120
MO18DD072	58	59	Peg	44063	1.18	1490
MO18DD072	59	60	Peg	44064	1.51	671
MO18DD072	60	61	Peg	44066	0.924	2490
MO18DD072	61	62	Peg	44067	1.765	929
MO18DD072	62	63	Peg	44068	1.375	1680
MO18DD072	63	64	Peg	44069	1.09	568
MO18DD072	64	65	Peg	44071	1.105	346
MO18DD072	65	66	Peg	44072	1.12	4590
MO18DD072	66	67	Peg	44073	1.52	274
MO18DD072	67	68	Peg	44074	2.38	1260
MO18DD072	68	68.66	Peg	44076	1.045	3040
MO18DD072	68.66	68.83	LC	NS_72_6		
MO18DD072	68.83	70	Peg	44077	0.631	855
MO18DD072	70	71	Peg	44078	1.475	810
MO18DD072	71	72	Peg	44079	2.18	559
MO18DD072	72	73	Peg	44080	1.025	2790
MO18DD072	73	74	Peg	44081	1.18	977
MO18DD072	74	75	Peg	44082	2.01	2290
MO18DD072	75	76	Peg	44083	2.99	491
MO18DD072	76	77	Peg	44084	2.88	892
MO18DD072	77	78	Peg	44085	1.38	525
MO18DD072	78	79	Peg	44086	1.455	549
MO18DD072	79	80	Peg	44087	2.16	737
MO18DD072	80	81	Peg	44088	1.55	638
MO18DD072	81	82	Peg	44089	1.44	334
MO18DD072	82	83	Peg	44091	1.68	1230
MO18DD072	83	84	Peg	44092	1.545	962
MO18DD072	84	85	Peg	44093	1.62	1710
MO18DD072	85	86	Peg	44094	2.58	403
MO18DD072	86	87	Peg	44096	2.25	221
MO18DD072	87	88	Peg	44097	1.79	2690
MO18DD072	88	89	Peg	44098	1.23	1550

MO18DD072	89	90	Peg	44099	1.41	800
MO18DD072	90	91	Peg	44100	2.2	1760
MO18DD072	91	92	Peg	44101	1.745	1230
MO18DD072	92	93	Peg	44102	2.67	488
MO18DD072	93	94	Peg	44103	1.375	1020
MO18DD072	94	95	Peg	44104	1.825	569
MO18DD072	95	96	Peg	44106	2.3	779
MO18DD072	96	97	Peg	44107	3.34	529
MO18DD072	97	98	Peg	44108	1.76	2610
MO18DD072	98	99	Peg	44109	1.45	1440
MO18DD072	99	100	Peg	44111	1.4	1670
MO18DD072	100	101	Peg	44112	2.56	426
MO18DD072	101	102	Peg	44113	2.08	243
MO18DD072	102	103	Peg	44114	3.62	327
MO18DD072	103	104	Peg	44116	2.35	587
MO18DD072	104	105	Peg	44117	1.985	2130
MO18DD072	105	106	Peg	44118	2.21	1380
MO18DD072	106	107	Peg	44119	2.04	840
MO18DD072	107	108	Peg	44120	1.6	1680
MO18DD072	108	109	Peg	44121	2.77	390
MO18DD072	109	110	Peg	44122	1.25	709
MO18DD072	110	111	Peg	44123	2.28	779
MO18DD072	111	112	Peg	44124	1.115	1010
MO18DD072	112	113	Peg	44125	2.85	558
MO18DD072	113	114	Peg	44126	2.15	2330
MO18DD072	114	115	Peg	44127	1.385	6270
MO18DD072	115	116	Peg	44128	1.41	253
MO18DD072	116	117	Peg	44129	1.665	1620
MO18DD072	117	118	Peg	44131	2.13	881
MO18DD072	118	119	Peg	44132	1.665	1590
MO18DD072	119	120	Peg	44133	1.92	1910
MO18DD072	120	121	Peg	44134	3.77	331
MO18DD072	121	122	Peg	44136	3.06	295
MO18DD072	122	123	Peg	44137	0.704	323
MO18DD072	123	124	Peg	44138	1.31	178
MO18DD072	124	125	Peg	44139	0.992	1150
MO18DD072	125	126	Peg	44140	1.74	849
MO18DD072	126	127	Peg	44141	1.17	1850
MO18DD072	127	128	Peg	44142	2.24	670
MO18DD072	128	129	Peg	44143	1.985	776
MO18DD072	129	130	Peg	44144	1.84	859
MO18DD072	130	131	Peg	44146	1.435	1000
MO18DD072	131	132	Peg	44147	1.57	893
MO18DD072	132	133	Peg	44148	2.26	1040
MO18DD072	133	134	Peg	44149	1.58	994
MO18DD072	134	135	Peg	44151	1.49	801
MO18DD072	135	136	Peg	44152	1.95	669
MO18DD072	136	137	Peg	44153	1.455	1070

MO18DD072	137	138	Peg	44154	1.665	1150
MO18DD072	138	139	Peg	44156	1.76	1220
MO18DD072	139	140	Peg	44157	2.18	1120
MO18DD072	140	141	Peg	44158	1.605	1010
MO18DD072	141	142	Peg	44159	1.485	751
MO18DD072	142	143	Peg	44160	1.235	1510
MO18DD072	143	144	Peg	44161	1.925	1160
MO18DD072	144	145	Peg	44162	1.725	1100
MO18DD072	145	146	Peg	44163	1.595	1050
MO18DD072	146	147	Peg	44164	2.25	981
MO18DD072	147	148	Peg	44165	1.8	1020
MO18DD072	148	149	Peg	44166	1.78	1680
MO18DD072	149	150	Peg	44167	1.315	1340
MO18DD072	150	151	Peg	44168	1.23	1460
MO18DD072	151	152	Peg	44169	1.62	1310
MO18DD072	152	153	Peg	44171	2.08	209
MO18DD072	153	154	Peg	44172	0.947	535
MO18DD072	154	155	Peg	44173	0.982	385
MO18DD072	155	156	Peg	44174	1.815	1070
MO18DD072	156	157	Peg	44176	1.465	1220
MO18DD072	157	158	Peg	44177	1.32	1460
MO18DD072	158	159	Peg	44178	1.72	1290
MO18DD072	159	160	Peg	44179	1.595	1250
MO18DD072	160	161	Peg	44180	1.845	1230
MO18DD072	161	162	Peg	44181	2.16	241
MO18DD072	162	163	Peg	44182	2.22	1130
MO18DD072	163	164	Peg	44183	0.971	1290
MO18DD072	164	165	Peg	44184	1.55	1070
MO18DD072	165	166	Peg	44186	2.09	398
MO18DD072	166	167	Peg	44187	1.755	394
MO18DD072	167	168	Peg	44188	1.61	1440
MO18DD072	168	169	Peg	44189	1.675	1310
MO18DD072	169	170	Peg	44191	1.67	472
MO18DD072	170	171	Peg	44192	1.935	821
MO18DD072	171	172	Peg	44193	1.96	697
MO18DD072	172	173	Peg	44194	2.12	501
MO18DD072	173	174	Peg	44196	1.315	928
MO18DD072	174	175	Peg	44197	1.275	939
MO18DD072	175	176	Peg	44198	1.64	877
MO18DD072	176	177	Peg	44199	2.4	684
MO18DD072	177	178	Peg	44200	2.3	1270
MO18DD072	178	179	Peg	44201	2.18	649
MO18DD072	179	180	Peg	44202	2.14	1240
MO18DD072	180	181	Peg	44203	0.831	265
MO18DD072	181	182	Peg	44204	2.36	1440
MO18DD072	182	183	Peg	44205	1.93	1390
MO18DD072	183	184	Peg	44206	1.73	609
MO18DD072	184	185	Peg	44207	2.65	728

MO18DD072	185	186	Peg	44208	2.05	901
MO18DD072	186	187	Peg	44209	1.83	979
MO18DD072	187	188	Peg	44211	1.425	719
MO18DD072	188	189	Peg	44212	1.355	518
MO18DD072	189	190	Peg	44213	1.625	841
MO18DD072	190	191	Peg	44214	0.723	235
MO18DD072	191	192	Peg	44216	2.31	212
MO18DD072	192	193	Peg	44217	0.977	1660
MO18DD072	193	194	Peg	44218	2.09	1125
MO18DD072	194	195	Peg	44219	2.26	808
MO18DD072	195	196	Peg	44220	2.1	813
MO18DD072	196	197	Peg	44221	1.47	1090
MO18DD072	197	198	Peg	44222	2.83	977
MO18DD072	198	199	Peg	44223	1.22	1510
MO18DD072	199	200	Peg	44224	2.14	1430
MO18DD072	200	201	Peg	44226	1.76	1240
MO18DD072	201	202	Peg	44227	1.25	890
MO18DD072	202	203	Peg	44228	2.35	565
MO18DD072	203	204	Peg	44229	2.7	856
MO18DD072	204	205	Peg	44231	0.618	378
MO18DD072	205	206	Peg	44232	1.915	1760
MO18DD072	206	207	Peg	44233	1.265	890
MO18DD072	207	208	Peg	44234	1.6	574
MO18DD072	208	209	Peg	44236	1.395	1690
MO18DD072	209	210	Peg	44237	1.57	993
MO18DD072	210	211	Peg	44238	1.085	509
MO18DD072	211	212	Peg	44239	1.1	645
MO18DD072	212	213	Peg	44240	1.22	1170
MO18DD072	213	214.23	Peg	44241	1.655	711
MO18DD072	214.23	214.75	HMs	44242		
MO18DD072	214.75	215.3	Peg	44243	1.085	2510
MO18DD072	215.3	215.65	HMs	44244		
MO18DD072	215.65	217	Peg	44245	1.115	1275
MO18DD072	217	218	Peg	44246	1.58	936
MO18DD072	218	219	Peg	44247	2.39	848
MO18DD072	219	220	Peg	44248	2.17	1125
MO18DD072	220	221.32	Peg	44249	2.56	1195
MO18DD072	221.32	222.09	HMs	44251		
MO18DD072	222.09	223	Peg	44252	1.365	1385
MO18DD072	223	224	Peg	44253	1.1	1215
MO18DD072	224	225	Peg	44254	1.17	861
MO18DD072	225	226	Peg	44256	3.11	308
MO18DD072	226	227	Peg	44257	2.78	581
MO18DD072	227	228	Peg	44258	2.1	462
MO18DD072	228	229	Peg	44259	1.21	448
MO18DD072	229	230	Peg	44260	1.475	1105
MO18DD072	230	231	Peg	44261	1.945	535
MO18DD072	231	231.83	Peg	44262	0.144	466

MO18DD072	231.83	233	HMSst	44263	0.183	30
MO18DD072	233	234	HMSst	44264	0.189	20
MO18DD077	0	0.05	LC	NS_77_1		
MO18DD077	0.05	0.45	LC	NS_77_2		
MO18DD077	0.45	1	Peg	44571	1.31	896
MO18DD077	1	2	Peg	44572	1.59	924
MO18DD077	2	2.9	Peg	44573	2.01	857
MO18DD077	2.9	4	Peg	44574	1.1	1090
MO18DD077	4	5	Peg	44575	1.79	1180
MO18DD077	5	6	Peg	44576	2.39	888
MO18DD077	6	7	Peg	44577	1.48	395
MO18DD077	7	8	Peg	44578	2.99	936
MO18DD077	8	9	Peg	44579	1.205	1730
MO18DD077	9	10	Peg	44581	2.34	1520
MO18DD077	10	11	Peg	44582	1.355	1100
MO18DD077	11	12	Peg	44583	1.7	1820
MO18DD077	12	13	Peg	44584	2.1	686
MO18DD077	13	14	Peg	44586	1.63	908
MO18DD077	14	15	Peg	44587	1.705	1220
MO18DD077	15	16	Peg	44588	1.05	807
MO18DD077	16	17	Peg	44589	2.23	842
MO18DD077	17	18	Peg	44590	2.55	671
MO18DD077	18	19	Peg	44591	0.919	780
MO18DD077	19	20	Peg	44592	1.13	396
MO18DD077	20	21	Peg	44593	0.943	580
MO18DD077	21	22	Peg	44594	0.59	935
MO18DD077	22	23	Peg	44596	1.165	1450
MO18DD077	23	24	Peg	44597	1.41	1510
MO18DD077	24	25	Peg	44598	1.77	766
MO18DD077	25	26	Peg	44599	1.77	1530
MO18DD077	26	27	Peg	44601	2.37	1190
MO18DD077	27	28	Peg	44602	1.985	795
MO18DD077	28	29	Peg	44603	1.77	1890
MO18DD077	29	30	Peg	44604	1.455	2650
MO18DD077	30	31	Peg	44606	2.2	1010
MO18DD077	31	32	Peg	44607	2.53	652
MO18DD077	32	33	Peg	44608	1.725	842
MO18DD077	33	34	Peg	44609	1.665	1520
MO18DD077	34	35	Peg	44610	1.325	1080
MO18DD077	35	36	Peg	44611	2.18	952
MO18DD077	36	37	Peg	44612	0.786	1240
MO18DD077	37	38	Peg	44613	0.76	1640
MO18DD077	38	39	Peg	44614	2.03	1750
MO18DD077	39	40	Peg	44615	1.29	1540
MO18DD077	40	41	Peg	44616	0.775	1610
MO18DD077	41	42	Peg	44617	2.35	1110
MO18DD077	42	43	Peg	44618	2.91	2410
MO18DD077	43	44	Peg	44619	3.87	373

MO18DD077	44	45	Peg	44621	1.165	1010
MO18DD077	45	46	Peg	44622	1.3	1490
MO18DD077	46	47	Peg	44623	1.16	936
MO18DD077	47	48	Peg	44624	2.52	722
MO18DD077	48	49	Peg	44626	2.17	1130
MO18DD077	49	50	Peg	44627	3.08	1080
MO18DD077	50	51	Peg	44628	0.232	774
MO18DD077	51	52	Peg	44629	2.38	793
MO18DD077	52	53	Peg	44630	1.53	1740
MO18DD077	53	54	Peg	44631	1.805	1150
MO18DD077	54	55	Peg	44632	2.03	1970
MO18DD077	55	56	Peg	44633	1.15	1260
MO18DD077	56	57	Peg	44634	1.06	1740
MO18DD077	57	58	Peg	44636	2.09	1040
MO18DD077	58	59	Peg	44637	1.81	1370
MO18DD077	59	60	Peg	44638	1.425	1850
MO18DD077	60	61	Peg	44639	2.11	1310
MO18DD077	61	62	Peg	44641	2.66	3340
MO18DD077	62	63	Peg	44642	1.9	1670
MO18DD077	63	64	Peg	44643	2.22	1610
MO18DD077	64	65	Peg	44644	1.58	662
MO18DD077	65	66	Peg	44646	0.915	3830
MO18DD077	66	67	Peg	44647	1.475	1010
MO18DD077	67	68	Peg	44648	1.93	1200
MO18DD077	68	69	Peg	44649	1.975	630
MO18DD077	69	70	Peg	44650	1.76	419
MO18DD077	70	71	Peg	44651	2.9	853
MO18DD077	71	72	Peg	44652	1.83	850
MO18DD077	72	73	Peg	44653	2.86	647
MO18DD077	73	74	Peg	44654	2.23	1110
MO18DD077	74	75	Peg	44655	2.32	667
MO18DD077	75	76	Peg	44656	2.71	1620
MO18DD077	76	77	Peg	44657	2.78	1410
MO18DD077	77	78	Peg	44658	3.69	472
MO18DD077	78	79	Peg	44659	3.41	892
MO18DD077	79	80	Peg	44661	0.308	561
MO18DD077	80	81	Peg	44662	0.127	441
MO18DD077	81	82	Peg	44663	1.545	592
MO18DD077	82	82.52	Peg	44664	1.04	381
MO18DD077	82.52	83.14	Peg	44666	1.65	638
MO18DD077	83.14	84	Peg	44667	1.185	337
MO18DD077	84	85	Peg	44668	2.2	663
MO18DD077	85	86	Peg	44669	2.57	463
MO18DD077	86	87	Peg	44670	1.09	868
MO18DD077	87	88	Peg	44671	1.21	1970
MO18DD077	88	89	Peg	44672	1.265	1160
MO18DD077	89	90	Peg	44673	0.743	807
MO18DD077	90	91	Peg	44674	1.425	3690

MO18DD077	91	92	Peg	44676	2.96	1120
MO18DD077	92	93	Peg	44677	1.32	1060
MO18DD077	93	93.93	Peg	44678	0.377	540
MO18DD077	93.93	94.34	Peg	44679	2.41	609
MO18DD077	94.34	95	Peg	44681	0.342	1070
MO18DD077	95	96	Peg	44682	1.815	1060
MO18DD077	96	97	Peg	44683	3.28	363
MO18DD077	97	98	Peg	44684	1.97	388
MO18DD077	98	99	Peg	44686	2.25	671
MO18DD077	99	100	Peg	44687	2.63	683
MO18DD077	100	101	Peg	44688	1.765	1250
MO18DD077	101	102	Peg	44689	3.15	1060
MO18DD077	102	103	Peg	44690	2.1	1290
MO18DD077	103	104	Peg	44691	3.3	547
MO18DD077	104	105	Peg	44692	1.585	175
MO18DD077	105	106	Peg	44693	0.48	1090
MO18DD077	106	107	Peg	44694	3.01	1100
MO18DD077	107	108	Peg	44695	2.32	1440
MO18DD077	108	109	Peg	44696	1.565	1240
MO18DD077	109	110	Peg	44697	1.3	1060
MO18DD077	110	111	Peg	44698	1.99	711
MO18DD077	111	112.18	Peg	44699	0.482	438
MO18DD077	112.18	113	HMs	44701	0.364	153
MO18DD077	113	135		NS_77_3		
MO18DD077	135	135.53	HMSst	44702	0.297	57
MO18DD077	135.53	136	Peg	44703	0.101	606
MO18DD077	136	137	Peg	44704	0.273	361
MO18DD077	137	138	Peg	44706	3.62	397
MO18DD077	138	139	Peg	44707	1.75	945
MO18DD077	139	140	Peg	44708	1.36	790
MO18DD077	140	141	Peg	44709	1.795	1570
MO18DD077	141	142	Peg	44710	1.615	1180
MO18DD077	142	143	Peg	44711	1.585	1480
MO18DD077	143	144	Peg	44712	2.67	930
MO18DD077	144	145	Peg	44713	1.985	1790
MO18DD077	145	146	Peg	44714	1.405	671
MO18DD077	146	147	Peg	44716	1.575	804
MO18DD077	147	147.27	LC	NS_77_4		
MO18DD077	147.27	148	Peg	44717	0.88	636
MO18DD077	148	149	Peg	44718	1.195	1120
MO18DD077	149	150	Peg	44719	2.38	718
MO18DD077	150	151	Peg	44721	2.09	1310
MO18DD077	151	152	Peg	44722	1.75	1420
MO18DD077	152	153	Peg	44723	1.355	1260
MO18DD077	153	154	Peg	44724	1.4	241
MO18DD077	154	155	Peg	44726	1.755	1170
MO18DD077	155	156	Peg	44727	0.997	875
MO18DD077	156	157	Peg	44728	1.15	1300

MO18DD077	157	158	Peg	44729	0.286	367
MO18DD077	158	159	Peg	44730	1.7	968
MO18DD077	159	160	Peg	44731	1.96	1350
MO18DD077	160	161	Peg	44732	2	277
MO18DD077	161	162	Peg	44733	1.23	503
MO18DD077	162	163	Peg	44734	1.985	163
MO18DD077	163	164	Peg	44735	0.59	1130
MO18DD077	164	165	Peg	44736	1.46	467
MO18DD077	165	166	Peg	44737	1.43	1130
MO18DD077	166	167	Peg	44738	2.4	736
MO18DD077	167	168	Peg	44739	1.285	1250
MO18DD077	168	169	Peg	44741	1.5	1260
MO18DD077	169	170	Peg	44742	1.915	335
MO18DD077	170	171.25	Peg	44743	0.42	506
MO18DD077	171.25	172	HMSst	44744	0.26	120
MO18DD077	172	173	HMSst	44746	0.23	73
MO18DD078	0	30		NS_78		
MO18DD078	30	31	HMs	43241	0.179	65
MO18DD078	31	31.65	HMs	43242	0.269	169
MO18DD078	31.65	33	Peg	43243	0.013	303
MO18DD078	33	33.57	Peg	43244	0.058	291
MO18DD078	33.57	34.57	HMs	43245	0.183	53
MO18DD078	34.57	50.48		NS_78_1		
MO18DD078	50.48	50.63	Peg	NS_78_2		
MO18DD078	50.63	55		NS_78_3		
MO18DD078	55	56	HMs	43246	0.077	25
MO18DD078	56	57	Peg	43247	0.024	153
MO18DD078	57	58.19	Peg	43248	0.032	362
MO18DD078	58.19	58.47	LC	NS_78_4		
MO18DD078	58.47	59.18	Peg	43249	0.03	246
MO18DD078	59.18	59.58	LC	NS_78_5		
MO18DD078	59.58	59.88	Peg	43251	0.043	329
MO18DD078	59.88	60.53	LC	NS_78_6		
MO18DD078	60.53	61.66	Peg	43252	0.054	390
MO18DD078	61.66	62.68	LC	NS_78_7		
MO18DD078	62.68	63.19	Peg	43253	0.084	351
MO18DD078	63.19	64.18	LC	NS_78_8		
MO18DD078	64.18	65	Peg	43254	0.127	984
MO18DD078	65	65.5	LC	NS_78_9		
MO18DD078	65.5	65.98	Peg	43256	0.097	1520
MO18DD078	65.98	66.38	LC	NS_78_10		
MO18DD078	66.38	66.68	Peg	43257	0.069	127
MO18DD078	66.68	66.98	LC	NS_78_11		
MO18DD078	66.98	67.51	Peg	43258	0.095	820
MO18DD078	67.51	68.28	LC	NS_78_12		
MO18DD078	68.28	68.48	Peg	43259	0.101	852
MO18DD078	68.48	68.68	LC	NS_78_13		
MO18DD078	68.68	70	Peg	43260	0.273	2160

MO18DD078	70	70.68	Peg	43261	0.392	517
MO18DD078	70.68	70.83	LC	NS_78_14		
MO18DD078	70.83	72	Peg	43262	0.056	760
MO18DD078	72	73	Peg	43263	0.084	1140
MO18DD078	73	74	Peg	43264	0.054	1680
MO18DD078	74	75	Peg	43266	0.073	1050
MO18DD078	75	76	Peg	43267	0.196	2590
MO18DD078	76	77	Peg	43268	0.211	3850
MO18DD078	77	78	Peg	43269	0.06	1220
MO18DD078	78	78.2	LC	NS_78_15		
MO18DD078	78.2	79	Peg	43271	0.284	1190
MO18DD078	79	80	Peg	43272	0.112	609
MO18DD078	80	81	Peg	43273	0.026	389
MO18DD078	81	82.38	Peg	43274	0.041	931
MO18DD078	82.38	82.68	LC	NS_78_16		
MO18DD078	82.68	84	Peg	43276	0.045	276
MO18DD078	84	85	Peg	43277	1.63	383
MO18DD078	85	86	Peg	43278	1.165	517
MO18DD078	86	87	Peg	43279	0.551	625
MO18DD078	87	88	Peg	43280	0.032	809
MO18DD078	88	89	Peg	43281	0.028	457
MO18DD078	89	90	Peg	43282	0.028	568
MO18DD078	90	90.82	Peg	43283	0.026	242
MO18DD078	90.82	91.74	LC	NS_78_17		
MO18DD078	91.74	92.21	Peg	43284	0.015	51
MO18DD078	92.21	93	HMs	43285	0.101	27
MO18DD078	93	95	HMs	NS_78_18		
MO18DD078	95	96.12	HMs	43286	0.099	34
MO18DD078	96.12	97	Peg	43287	1.415	265
MO18DD078	97	98	Peg	43288	0.913	331
MO18DD078	98	99	Peg	43289	1.4	147
MO18DD078	99	100	Peg	43291	0.781	471
MO18DD078	100	101	Peg	43292	0.745	4730
MO18DD078	101	102	Peg	43293	0.594	2190
MO18DD078	102	103	Peg	43294	1.335	472
MO18DD078	103	104	Peg	43296	2.7	213
MO18DD078	104	105	Peg	43297	2.66	896
MO18DD078	105	106	Peg	43298	2.85	325
MO18DD078	106	107	Peg	43299	2.68	201
MO18DD078	107	108	Peg	43300	3.81	247
MO18DD078	108	109	Peg	43301	1.085	413
MO18DD078	109	110	Peg	43302	1.315	626
MO18DD078	110	111	Peg	43303	3.18	309
MO18DD078	111	112	Peg	43304	3.15	293
MO18DD078	112	113	Peg	43306	3.23	279
MO18DD078	113	114	Peg	43307	2.73	330
MO18DD078	114	115	Peg	43308	2.58	293
MO18DD078	115	116.16	Peg	43309	1.955	402

MO18DD078	116.16	117.1	Peg	43311	0.283	10000
MO18DD078	117.1	118	Dol	43312	0.086	1530
MO18DD078	118	128	Dol	NS_78_19		
MO18DD078	128	128.83	Dol	43313	0.366	100
MO18DD078	128.83	130	Peg	43314	0.073	512
MO18DD078	130	131	Peg	43316	0.378	564
MO18DD078	131	132	Peg	43317	1.17	678
MO18DD078	132	133	Peg	43318	1.375	537
MO18DD078	133	134	Peg	43319	0.619	899
MO18DD078	134	135	Peg	43320	1.945	1060
MO18DD078	135	136	Peg	43321	1.84	961
MO18DD078	136	137	Peg	43322	2.17	1000
MO18DD078	137	138	Peg	43323	2.85	1210
MO18DD078	138	139	Peg	43324	2.29	1560
MO18DD078	139	140	Peg	43325	1.935	1020
MO18DD078	140	141	Peg	43326	2.51	1650
MO18DD078	141	142	Peg	43327	1.78	2770
MO18DD078	142	143	Peg	43328	1.9	1620
MO18DD078	143	144	Peg	43329	1.455	809
MO18DD078	144	145	Peg	43331	1.2	1030
MO18DD078	145	146	Peg	43332	1.415	1080
MO18DD078	146	147	Peg	43333	1.735	1180
MO18DD078	147	148	Peg	43334	1.855	1720
MO18DD078	148	149	Peg	43336	1.57	1240
MO18DD078	149	150	Peg	43337	1.61	1140
MO18DD078	150	151	Peg	43338	1.375	1530
MO18DD078	151	152	Peg	43339	2.31	751
MO18DD078	152	153	Peg	43340	1.55	1790
MO18DD078	153	154	Peg	43341	2.15	896
MO18DD078	154	155	Peg	43342	1.895	1570
MO18DD078	155	156	Peg	43343	2.57	1720
MO18DD078	156	157	Peg	43344	1.435	1510
MO18DD078	157	158	Peg	43346	2.54	1330
MO18DD078	158	159	Peg	43347	1.78	1440
MO18DD078	159	160	Peg	43348	1.335	723
MO18DD078	160	161	Peg	43349	2.17	800
MO18DD078	161	162	Peg	43351	1.82	625
MO18DD078	162	163	Peg	43352	1.205	796
MO18DD078	163	164	Peg	43353	2.1	673
MO18DD078	164	165	Peg	43354	0.568	1490
MO18DD078	165	166	Peg	43356	2.41	961
MO18DD078	166	167	Peg	43357	1.635	842
MO18DD078	167	168	Peg	43358	2.38	845
MO18DD078	168	169	Peg	43359	2.12	673
MO18DD078	169	170	Peg	43360	1.545	1030
MO18DD078	170	171	Peg	43361	1.735	1060
MO18DD078	171	172	Peg	43362	0.969	1220
MO18DD078	172	173	Peg	43363	1.52	987

MO18DD078	173	174	Peg	43364	2.1	913
MO18DD078	174	175	Peg	43365	1.14	954
MO18DD078	175	176	Peg	43366	2.05	1120
MO18DD078	176	177	Peg	43367	1.45	1880
MO18DD078	177	178	Peg	43368	1.1	1830
MO18DD078	178	179	Peg	43369	1.305	1750
MO18DD078	179	180	Peg	43371	1.795	1130
MO18DD078	180	181	Peg	43372	1.15	2770
MO18DD078	181	182	Peg	43373	1.625	956
MO18DD078	182	183	Peg	43374	1.76	1200
MO18DD078	183	184	Peg	43376	2.11	992
MO18DD078	184	185	Peg	43377	1.685	1040
MO18DD078	185	186	Peg	43378	1.945	1420
MO18DD078	186	187	Peg	43379	1.94	1180
MO18DD078	187	188	Peg	43380	2.15	1600
MO18DD078	188	189	Peg	43381	0.71	1380
MO18DD078	189	190	Peg	43382	1.06	1100
MO18DD078	190	191	Peg	43383	1.505	1010
MO18DD078	191	192	Peg	43384	1.605	1350
MO18DD078	192	193	Peg	43386	0.932	1650
MO18DD078	193	194	Peg	43387	2.15	1280
MO18DD078	194	195	Peg	43388	1.785	1540
MO18DD078	195	196	Peg	43389	2.11	759
MO18DD078	196	197	Peg	43391	1.38	1130
MO18DD078	197	198	Peg	43392	1.4	1910
MO18DD078	198	199	Peg	43393	1.89	1350
MO18DD078	199	200	Peg	43394	1.41	2140
MO18DD078	200	201	Peg	43396	1.585	1150
MO18DD078	201	202	Peg	43397	1.36	1740
MO18DD078	202	203	Peg	43398	1.275	1870
MO18DD078	203	204	Peg	43399	1.91	2300
MO18DD078	204	205	Peg	43400	1.545	1280
MO18DD078	205	206	Peg	43401	2.21	1520
MO18DD078	206	207	Peg	43402	1.845	2090
MO18DD078	207	208	Peg	43403	2.01	975
MO18DD078	208	209	Peg	43404	2.6	932
MO18DD078	209	210	Peg	43405	1.285	1440
MO18DD078	210	211	Peg	43406	1.66	1370
MO18DD078	211	212	Peg	43407	1.645	1210
MO18DD078	212	213	Peg	43408	1.91	818
MO18DD078	213	214	Peg	43409	1.89	529
MO18DD078	214	215	Peg	43411	1.37	644
MO18DD078	215	216	Peg	43412	1.285	1970
MO18DD078	216	217	Peg	43413	1.285	1290
MO18DD078	217	218	Peg	43414	1.265	904
MO18DD078	218	219	Peg	43416	0.661	842
MO18DD078	219	220	Peg	43417	1.205	1250
MO18DD078	220	221	Peg	43418	2.26	1240

MO18DD078	221	222	Peg	43419	2.66	871
MO18DD078	222	223	Peg	43420	1.935	1070
MO18DD078	223	224	Peg	43421	2.15	1700
MO18DD078	224	225	Peg	43422	1.255	358
MO18DD078	225	226	Peg	43423	1.44	150
MO18DD078	226	227	Peg	43424	1.395	1950
MO18DD078	227	228	Peg	43426	1.515	2200
MO18DD078	228	229	Peg	43427	0.463	1730
MO18DD078	229	230	Peg	43428	0.497	1430
MO18DD078	230	231	Peg	43429	0.538	1350
MO18DD078	231	232	Peg	43431	1.175	977
MO18DD078	232	233	Peg	43432	1.51	1010
MO18DD078	233	234	Peg	43433	1.46	880
MO18DD078	234	235	Peg	43434	1.505	865
MO18DD078	235	236	Peg	43436	1.085	700
MO18DD078	236	237	Peg	43437	2.57	907
MO18DD078	237	238	Peg	43438	1.22	1810
MO18DD078	238	239	Peg	43439	1.28	1130
MO18DD078	239	240	Peg	43440	1.58	805
MO18DD078	240	241	Peg	43441	1.055	1220
MO18DD078	241	242	Peg	43442	1.565	1370
MO18DD078	242	243	Peg	43443	2.45	1050
MO18DD078	243	244	Peg	43444	1.815	584
MO18DD078	244	245	Peg	43445	0.504	942
MO18DD078	245	246	Peg	43446	0.308	342
MO18DD078	246	247	Peg	43447	0.68	334
MO18DD078	247	248	Peg	43448	1.48	618
MO18DD078	248	249	Peg	43449	1.215	1740
MO18DD078	249	250	Peg	43451	0.971	2120
MO18DD078	250	251	Peg	43452	1.97	1640
MO18DD078	251	252	Peg	43453	0.79	956
MO18DD078	252	253	Peg	43454	0.465	1050
MO18DD078	253	254	Peg	43456	0.583	591
MO18DD078	254	255	Peg	43457	0.364	1890
MO18DD078	255	256	Peg	43458	0.618	130
MO18DD078	256	257	Peg	43459	2.01	527
MO18DD078	257	258	Peg	43460	1.205	517
MO18DD078	258	259	Peg	43461	1.905	508
MO18DD078	259	260	Peg	43462	1.52	699
MO18DD078	260	261	Peg	43463	1.47	1070
MO18DD078	261	262	Peg	43464	1.69	915
MO18DD078	262	263	Peg	43466	1.085	881
MO18DD078	263	264	Peg	43467	0.56	2240
MO18DD078	264	265	Peg	43468	2.04	3140
MO18DD078	265	266	Peg	43469	1.515	166
MO18DD078	266	267	Peg	43471	3.93	295
MO18DD078	267	268	Peg	43472	2.93	2020
MO18DD078	268	269	Peg	43473	2.36	809

MO18DD078	269	270	Peg	43474	0.629	568
MO18DD078	270	271	Peg	43476	0.631	725
MO18DD078	271	272	Peg	43477	0.678	1530
MO18DD078	272	273	Peg	43478	1.745	1810
MO18DD078	273	274	Peg	43479	1.445	1800
MO18DD078	274	275	Peg	43480	3	903
MO18DD078	275	276	Peg	43481	0.669	884
MO18DD078	276	277	Peg	43482	1.26	655
MO18DD078	277	278	Peg	43483	1.475	311
MO18DD078	278	279	Peg	43484	1.585	1440
MO18DD078	279	280	Peg	43485	1.44	404
MO18DD078	280	281	Peg	43486	2.28	1260
MO18DD078	281	282	Peg	43487	2.53	410
MO18DD078	282	283	Peg	43488	1.44	1060
MO18DD078	283	284	Peg	43489	0.725	1190
MO18DD078	284	285	Peg	43491	1.2	564
MO18DD078	285	286	Peg	43492	1.33	347
MO18DD078	286	287	Peg	43493	1.8	1230
MO18DD078	287	288	Peg	43494	2.16	427
MO18DD078	288	289	Peg	43496	1.35	493
MO18DD078	289	290	Peg	43497	1.48	775
MO18DD078	290	291	Peg	43498	2.28	694
MO18DD078	291	292	Peg	43499	2.1	612
MO18DD078	292	293	Peg	43500	1.79	760
MO18DD078	293	294	Peg	43501	1.26	1920
MO18DD078	294	295	Peg	43502	0.995	1030
MO18DD078	295	296	Peg	43503	1.88	1080
MO18DD078	296	297	Peg	43504	1.975	555
MO18DD078	297	298	Peg	43506	1.605	967
MO18DD078	298	299	Peg	43507	1.455	2060
MO18DD078	299	300	Peg	43508	1.815	2000
MO18DD078	300	301	Peg	43509	1.46	1290
MO18DD078	301	302	Peg	43511	1.85	845
MO18DD078	302	303	Peg	43512	1.87	752
MO18DD078	303	304	Peg	43513	1.625	952
MO18DD078	304	305.49	Peg	43514	1.47	728
MO18DD078	305.49	306.49	HMs	43516	0.469	149
MO18DD078	306.49	307.52	HMs	43517	0.566	233
MO18DD078	307.52	309	Peg	43518	1.28	2860
MO18DD078	309	310	Peg	43519	1.93	2010
MO18DD078	310	311.05	Peg	43520	0.459	3420
MO18DD078	311.05	312	HMs	43521	0.598	139
MO18DD078	312	314.82	HMs	NS_78_20		
MO18DD078	314.82	315.82	HMs	43522	0.174	157
MO18DD078	315.82	316.64	Peg	43523	0.502	309
MO18DD078	316.64	318.13	HMs	NS_78_21		
MO18DD078	318.13	319.13	HMs	43524	0.984	740
MO18DD078	319.13	320	Peg	43525	0.947	1540

MO18DD078	320	320.78	Peg	43526	2.2	1090
MO18DD079	0	0.4	Peg	43531	0.095	5020
MO18DD079	0.4	0.8	LC	NS_79_1		
MO18DD079	0.8	1.5	Peg	43532	0.097	1680
MO18DD079	1.5	2.2	Peg	43533	0.078	890
MO18DD079	2.2	2.3	LC	NS_79._2		
MO18DD079	2.3	2.57	Peg	43534	0.112	1140
MO18DD079	2.57	2.9	LC	NS_79_3		
MO18DD079	2.9	3.6	Peg	43535	0.127	1510
MO18DD079	3.6	3.8	LC	NS_79_4		
MO18DD079	3.8	4.9	Peg	43536	0.098	1060
MO18DD079	4.9	5.13	LC	NS_79_5		
MO18DD079	5.13	5.25	Peg	43537	0.209	687
MO18DD079	5.25	5.63	LC	NS_79_6		
MO18DD079	5.63	5.73	Peg	43538	0.092	435
MO18DD079	5.73	6.13	LC	NS_79_7		
MO18DD079	6.13	6.34	Peg	43539	0.064	742
MO18DD079	6.34	6.8	LC	NS_79_8		
MO18DD079	6.8	7	Peg	43541	0.057	941
MO18DD079	7	7.3	LC	NS_79_9		
MO18DD079	7.3	7.55	Peg	43542	0.147	1410
MO18DD079	7.55	7.8	LC	NS_79_10		
MO18DD079	7.8	8.03	Peg	43543	0.081	1550
MO18DD079	8.03	8.3	LC	NS_79_11		
MO18DD079	8.3	8.36	Peg	NS_79_12		
MO18DD079	8.36	8.8	LC	NS_79_13		
MO18DD079	8.8	8.95	Peg	43544	0.071	1190
MO18DD079	8.95	9.3	LC	NS_79_14		
MO18DD079	9.3	9.5	Peg	43546	0.136	507
MO18DD079	9.5	9.8	LC	NS_79_15		
MO18DD079	9.8	10.45	Peg	43547	0.136	498
MO18DD079	10.45	11.3	LC	NS_79_16		
MO18DD079	11.3	12.27	Peg	43548	0.71	875
MO18DD079	12.27	12.8	LC	NS_79_17		
MO18DD079	12.8	12.9	Peg	43549	0.349	996
MO18DD079	12.9	14.3	LC	NS_79_18		
MO18DD079	14.3	14.65	Peg	43550	0.076	929
MO18DD079	14.65	17.8	LC	NS_79_19		
MO18DD079	17.8	17.94	Peg	43551	0.042	1060
MO18DD079	17.94	18.3	LC	NS_79_20		
MO18DD079	18.3	18.4	Peg	43552	0.049	363
MO18DD079	18.4	18.8	LC	NS_79_21		
MO18DD079	18.8	19.32	Peg	43553	0.504	1640
MO18DD079	19.32	20.7	LC	NS_79_22		
MO18DD079	20.7	21.4	Peg	43554	0.131	1600
MO18DD079	21.4	21.8	LC	NS_79_23		
MO18DD079	21.8	21.95	Peg	43556	0.103	642
MO18DD079	21.95	22.63	LC	NS_79_24		

MO18DD079	22.63	22.83	Peg	43557	0.054	917
MO18DD079	22.83	23.5	LC	NS_79_25		
MO18DD079	23.5	23.85	Peg	43558	0.088	996
MO18DD079	23.85	24.06	LC	NS_79_26		
MO18DD079	24.06	25	Peg	43559	0.888	1710
MO18DD079	25	26	Peg	43561	1.925	815
MO18DD079	26	27	Peg	43562	0.903	1180
MO18DD079	27	27.65	Peg	43563	1.525	1460
MO18DD079	27.65	27.8	LC	NS_79_27		
MO18DD079	27.8	29	Peg	43564	0.441	2320
MO18DD079	29	29.8	Peg	43566	0.273	1960
MO18DD079	29.8	31	Peg	43567	0.904	2120
MO18DD079	31	32	Peg	43568	0.893	818
MO18DD079	32	33	Peg	43569	0.82	751
MO18DD079	33	34	Peg	43570	0.504	1330
MO18DD079	34	35	Peg	43571	0.282	1510
MO18DD079	35	36	Peg	43572	0.332	1230
MO18DD079	36	37	Peg	43573	1.44	866
MO18DD079	37	38	Peg	43574	1.215	762
MO18DD079	38	39	Peg	43575	1.82	786
MO18DD079	39	40	Peg	43576	1.73	906
MO18DD079	40	41	Peg	43577	1.82	1430
MO18DD079	41	42	Peg	43578	1.49	941
MO18DD079	42	43	Peg	43579	1.28	1090
MO18DD079	43	44	Peg	43581	0.594	2300
MO18DD079	44	45	Peg	43582	0.185	625
MO18DD079	45	46	Peg	43583	0.256	360
MO18DD079	46	47	Peg	43584	0.96	1110
MO18DD079	47	48	Peg	43586	0.769	1410
MO18DD079	48	49	Peg	43587	0.366	1010
MO18DD079	49	50	Peg	43588	1.465	1760
MO18DD079	50	51	Peg	43589	1.1	1410
MO18DD079	51	52	Peg	43590	1.29	777
MO18DD079	52	53	Peg	43591	0.999	1610
MO18DD079	53	54	Peg	43592	0.704	1600
MO18DD079	54	55	Peg	43593	0.762	1050
MO18DD079	55	56	Peg	43594	1.17	2000
MO18DD079	56	57	Peg	43596	1.315	897
MO18DD079	57	58	Peg	43597	0.731	991
MO18DD079	58	59	Peg	43598	0.051	542
MO18DD079	59	60	Peg	43599	0.036	224
MO18DD079	60	61	Peg	43601	0.021	393
MO18DD079	61	62	Peg	43602	0.02	734
MO18DD079	62	63	Peg	43603	0.054	1150
MO18DD079	63	64	Peg	43604	0.033	1570
MO18DD079	64	65	Peg	43606	0.071	1950
MO18DD079	65	66	Peg	43607	0.386	726
MO18DD079	66	67	Peg	43608	1.34	988

MO18DD079	67	68	Peg	43609	1.885	1030
MO18DD079	68	69	Peg	43610	0.743	1500
MO18DD079	69	70	Peg	43611	0.408	1000
MO18DD079	70	71	Peg	43612	1.31	440
MO18DD079	71	72	Peg	43613	1.385	603
MO18DD079	72	73	Peg	43614	1.05	720
MO18DD079	73	74	Peg	43615	0.578	393
MO18DD079	74	75	Peg	43616	0.15	362
MO18DD079	75	76	Peg	43617	0.177	1880
MO18DD079	76	77	Peg	43618	0.087	895
MO18DD079	77	78	Peg	43619	0.563	262
MO18DD079	78	79	Peg	43621	0.616	489
MO18DD079	79	80	Peg	43622	0.064	223
MO18DD079	80	81	Peg	43623	0.391	724
MO18DD079	81	82	Peg	43624	0.166	1620
MO18DD079	82	83	Peg	43626	0.723	913
MO18DD079	83	84	Peg	43627	1.035	973
MO18DD079	84	85	Peg	43628	1.11	1230
MO18DD079	85	86	Peg	43629	1.25	749
MO18DD079	86	87	Peg	43630	0.525	592
MO18DD079	87	88	Peg	43631	0.243	1220
MO18DD079	88	89	Peg	43632	1.32	1030
MO18DD079	89	90	Peg	43633	1.67	1030
MO18DD079	90	91	Peg	43634	0.708	1310
MO18DD079	91	92	Peg	43636	1.355	530
MO18DD079	92	93	Peg	43637	2	807
MO18DD079	93	94	Peg	43638	0.904	1360
MO18DD079	94	95	Peg	43639	1.24	1190
MO18DD079	95	96	Peg	43641	1.24	1510
MO18DD079	96	97	Peg	43642	1.35	3360
MO18DD079	97	98	Peg	43643	0.738	1170
MO18DD079	98	99	Peg	43644	0.667	1190
MO18DD079	99	100	Peg	43646	0.936	1840
MO18DD079	100	101	Peg	43647	1.485	1020
MO18DD079	101	102	Peg	43648	0.398	1470
MO18DD079	102	103	Peg	43649	0.056	1450
MO18DD079	103	104	Peg	43650	0.05	1120
MO18DD079	104	105	Peg	43651	0.054	1290
MO18DD079	105	106	Peg	43652	0.034	1580
MO18DD079	106	107	Peg	43653	0.022	886
MO18DD079	107	108	Peg	43654	0.022	870
MO18DD079	108	109	Peg	43655	0.054	1650
MO18DD079	109	110	Peg	43656	0.045	280
MO18DD079	110	111	Peg	43657	0.095	210
MO18DD079	111	112	Peg	43658	0.062	1070
MO18DD079	112	113	Peg	43659	0.058	1380
MO18DD079	113	114	Peg	43661	0.065	1040
MO18DD079	114	115	Peg	43662	0.288	1100

MO18DD079	115	116	Peg	43663	0.609	1790
MO18DD079	116	117	Peg	43664	1.77	822
MO18DD079	117	118	Peg	43666	1.595	1230
MO18DD079	118	119	Peg	43667	0.829	1830
MO18DD079	119	120	Peg	43668	1.37	1450
MO18DD079	120	121	Peg	43669	0.902	733
MO18DD079	121	122	Peg	43670	0.672	904
MO18DD079	122	123	Peg	43671	1.62	907
MO18DD079	123	124	Peg	43672	2.08	1030
MO18DD079	124	125	Peg	43673	2.02	1120
MO18DD079	125	126	Peg	43674	1.49	868
MO18DD079	126	127	Peg	43676	1.845	706
MO18DD079	127	128	Peg	43677	1.48	1370
MO18DD079	128	129	Peg	43678	2.15	1700
MO18DD079	129	130	Peg	43679	1.505	1370
MO18DD079	130	131	Peg	43681	1.425	1300
MO18DD079	131	132	Peg	43682	1.805	2020
MO18DD079	132	133	Peg	43683	1.815	1190
MO18DD079	133	134	Peg	43684	1.445	1140
MO18DD079	134	135	Peg	43686	1.51	1610
MO18DD079	135	136	Peg	43687	1.645	1230
MO18DD079	136	137	Peg	43688	1.13	1040
MO18DD079	137	138	Peg	43689	1.7	1300
MO18DD079	138	139	Peg	43690	2.13	1100
MO18DD079	139	140	Peg	43691	2.22	650
MO18DD079	140	141	Peg	43692	1.585	1700
MO18DD079	141	142	Peg	43693	1.75	1420
MO18DD079	142	143	Peg	43694	1.46	999
MO18DD079	143	144	Peg	43695	1.955	893
MO18DD079	144	145	Peg	43696	2.42	1510
MO18DD079	145	146	Peg	43697	0.342	273
MO18DD079	146	147	Peg	43698	0.68	545
MO18DD079	147	148	Peg	43699	1.27	388
MO18DD079	148	149	Peg	43701	1.97	1250
MO18DD079	149	150	Peg	43702	2.26	611
MO18DD079	150	151	Peg	43703	1.445	581
MO18DD079	151	152	Peg	43704	1.975	828
MO18DD079	152	153	Peg	43706	1.365	975
MO18DD079	153	154	Peg	43707	2.14	457
MO18DD079	154	155	Peg	43708	1.675	1070
MO18DD079	155	156	Peg	43709	1.69	1710
MO18DD079	156	157	Peg	43710	1.625	1270
MO18DD079	157	158	Peg	43711	1.595	1320
MO18DD079	158	159	Peg	43712	2.16	812
MO18DD079	159	160	Peg	43713	2.95	681
MO18DD079	160	161	Peg	43714	1.915	1150
MO18DD079	161	162	Peg	43716	1.145	1180
MO18DD079	162	163	Peg	43717	1.625	944

MO18DD079	163	164	Peg	43718	1.75	969
MO18DD079	164	165	Peg	43719	1.655	1760
MO18DD079	165	166	Peg	43721	1.945	1350
MO18DD079	166	167	Peg	43722	1.325	1290
MO18DD079	167	168	Peg	43723	0.878	840
MO18DD079	168	169	Peg	43724	1.33	968
MO18DD079	169	170	Peg	43726	1.61	1240
MO18DD079	170	171	Peg	43727	2.01	617
MO18DD079	171	172	Peg	43728	1.625	870
MO18DD079	172	173	Peg	43729	1.45	779
MO18DD079	173	174	Peg	43730	1.395	933
MO18DD079	174	175	Peg	43731	2.39	511
MO18DD079	175	176	Peg	43732	2.39	136
MO18DD079	176	177	Peg	43733	2.74	406
MO18DD079	177	178	Peg	43734	2.22	866
MO18DD079	178	179	Peg	43735	1.765	749
MO18DD079	179	180	Peg	43736	1.82	269
MO18DD079	180	181	Peg	43737	2.71	403
MO18DD079	181	182	Peg	43738	1.46	176
MO18DD079	182	183	Peg	43739	3.05	219
MO18DD079	183	184	Peg	43741	2.71	218
MO18DD079	184	185	Peg	43742	2.05	368
MO18DD079	185	186	Peg	43743	0.865	1020
MO18DD079	186	187	Peg	43744	0.904	183
MO18DD079	187	188	Peg	43746	0.534	357
MO18DD079	188	189	Peg	43747	1.315	1150
MO18DD079	189	190	Peg	43748	1.335	821
MO18DD079	190	191	Peg	43749	1.455	927
MO18DD079	191	192	Peg	43750	1.235	1000
MO18DD079	192	193	Peg	43751	1.075	1110
MO18DD079	193	194	Peg	43752	1.875	1040
MO18DD079	194	195	Peg	43753	1.585	646
MO18DD079	195	196	Peg	43754	1.98	1180
MO18DD079	196	197	Peg	43756	2.12	948
MO18DD079	197	198	Peg	43757	2.14	1760
MO18DD079	198	199	Peg	43758	1.93	660
MO18DD079	199	200	Peg	43759	1.26	545
MO18DD079	200	201	Peg	43761	3.38	264
MO18DD079	201	202	Peg	43762	1.315	1590
MO18DD079	202	203	Peg	43763	1.95	963
MO18DD079	203	204	Peg	43764	1.745	1130
MO18DD079	204	205	Peg	43766	1.985	1370
MO18DD079	205	206	Peg	43767	1.79	293
MO18DD079	206	207	Peg	43768	1.88	833
MO18DD079	207	208	Peg	43769	2.32	271
MO18DD079	208	209	Peg	43770	2.87	237
MO18DD079	209	210	Peg	43771	1.75	2170
MO18DD079	210	211	Peg	43772	2.2	751

MO18DD079	211	212	Peg	43773	1.73	813
MO18DD079	212	213	Peg	43774	1.905	450
MO18DD079	213	214	Peg	43775	1.89	436
MO18DD079	214	215	Peg	43776	2.65	234
MO18DD079	215	216	Peg	43777	2.29	211
MO18DD079	216	217	Peg	43778	1.05	451
MO18DD079	217	218	Peg	43779	1.45	728
MO18DD079	218	219	Peg	43781	2.06	792
MO18DD079	219	220	Peg	43782	1.525	1090
MO18DD079	220	221	Peg	43783	1.96	953
MO18DD079	221	222	Peg	43784	1.95	826
MO18DD079	222	223	Peg	43786	2.09	1270
MO18DD079	223	224	Peg	43787	2.43	939
MO18DD079	224	225	Peg	43788	1.38	1040
MO18DD079	225	226	Peg	43789	1.92	970
MO18DD079	226	227	Peg	43790	1.945	1060
MO18DD079	227	228	Peg	43791	2.11	907
MO18DD079	228	229	Peg	43792	2.55	671
MO18DD079	229	230	Peg	43793	1.92	1160
MO18DD079	230	231	Peg	43794	1.475	1240
MO18DD079	231	232	Peg	43796	2.12	3400
MO18DD079	232	233	Peg	43797	1.415	1340
MO18DD079	233	234	Peg	43798	1.505	1060
MO18DD079	234	235	Peg	43799	1.685	1210
MO18DD079	235	236	Peg	43801	1.84	764
MO18DD079	236	237	Peg	43802	2.1	724
MO18DD079	237	238	Peg	43803	1.795	941
MO18DD079	238	239	Peg	43804	1.795	1290
MO18DD079	239	240	Peg	43806	2.62	926
MO18DD079	240	241	Peg	43807	1.245	1920
MO18DD079	241	242	Peg	43808	0.902	1270
MO18DD079	242	243	Peg	43809	1.565	1470
MO18DD079	243	244	Peg	43810	2.15	963
MO18DD079	244	245	Peg	43811	1.775	1530
MO18DD079	245	246	Peg	43812	2.25	909
MO18DD079	246	247	Peg	43813	1.535	980
MO18DD079	247	248	Peg	43814	1.81	1080
MO18DD079	248	249	Peg	43815	2.08	1360
MO18DD079	249	250	Peg	43816	0.96	1380
MO18DD079	250	251	Peg	43817	2.35	381
MO18DD079	251	252	Peg	43818	2.24	1230
MO18DD079	252	253	Peg	43819	1.21	809
MO18DD079	253	254	Peg	43821	2.6	1050
MO18DD079	254	255	Peg	43822	2.13	779
MO18DD079	255	256	Peg	43823	2.41	530
MO18DD079	256	257	Peg	43824	1.56	1150
MO18DD079	257	258	Peg	43826	1.97	1350
MO18DD079	258	259	Peg	43827	1.77	1290

MO18DD079	259	260	Peg	43828	1.13	1340
MO18DD079	260	261	Peg	43829	1.75	1160
MO18DD079	261	262	Peg	43830	2.12	1180
MO18DD079	262	263	Peg	43831	2.12	895
MO18DD079	263	264	Peg	43832	1.725	694
MO18DD079	264	265	Peg	43833	1.95	967
MO18DD079	265	266	Peg	43834	1.595	1420
MO18DD079	266	267	Peg	43836	2.54	943
MO18DD079	267	268	Peg	43837	1.81	1080
MO18DD079	268	269	Peg	43838	2.15	995
MO18DD079	269	270	Peg	43839	1.955	975
MO18DD079	270	271	Peg	43841	1.705	767
MO18DD079	271	272	Peg	43842	1.3	1810
MO18DD079	272	273	Peg	43843	2.07	965
MO18DD079	273	274	Peg	43844	2.12	1250
MO18DD079	274	275	Peg	43846	2.38	1070
MO18DD079	275	276	Peg	43847	1.775	1340
MO18DD079	276	277	Peg	43848	1.94	1030
MO18DD079	277	278	Peg	43849	1.905	1200
MO18DD079	278	279	Peg	43850	2.35	399
MO18DD079	279	280	Peg	43851	1.68	1100
MO18DD079	280	281	Peg	43852	1.79	1610
MO18DD079	281	282	Peg	43853	2.28	1350
MO18DD079	282	283	Peg	43854	2.1	880
MO18DD079	283	284	Peg	43855	1.905	1410
MO18DD079	284	285	Peg	43856	2.59	1440
MO18DD079	285	286	Peg	43857	2.44	1790
MO18DD079	286	287	Peg	43858	1.525	1550
MO18DD079	287	288	Peg	43859	2.21	1520
MO18DD079	288	289	Peg	43861	3.56	433
MO18DD079	289	290	Peg	43862	1.905	413
MO18DD079	290	291	Peg	43863	1.6	992
MO18DD079	291	292	Peg	43864	1.815	1430
MO18DD079	292	293	Peg	43866	1.735	1050
MO18DD079	293	294	Peg	43867	2.07	290
MO18DD079	294	295	Peg	43868	1.76	585
MO18DD079	295	296	Peg	43869	0.702	289
MO18DD079	296	297	Peg	43870	2.2	466
MO18DD079	297	298	Peg	43871	1.52	596
MO18DD079	298	299	Peg	43872	2.08	518
MO18DD079	299	300.26	Peg	43873	2.4	1070
MO18DD080	0	0.23	Peg	25001	0.105	1440
MO18DD080	0.23	0.85	LC	NS_80_1		
MO18DD080	0.85	1.45	Peg	25002	0.073	936
MO18DD080	1.45	2.35	LC	NS_80_2		
MO18DD080	2.35	3.55	Peg	25003	0.056	876
MO18DD080	3.55	3.85	LC	NS_80_3		
MO18DD080	3.85	5	Peg	25004	0.047	718

MO18DD080	5	6	Peg	25005	0.075	349
MO18DD080	6	7	Peg	25006	0.155	1320
MO18DD080	7	7.71	Peg	25007	0.136	1910
MO18DD080	7.71	8.35	LC	NS_80_4		
MO18DD080	8.35	9.25	Peg	25008	0.118	663
MO18DD080	9.25	9.85	LC	NS_80_5		
MO18DD080	9.85	10.45	Peg	25009	0.095	1070
MO18DD080	10.45	10.81	LC	NS_80_6		
MO18DD080	10.81	11.61	Peg	25011	0.263	1820
MO18DD080	11.61	12.31	LC	NS_80_7		
MO18DD080	12.31	13	Peg	25012	0.069	719
MO18DD080	13	14	Peg	25013	0.196	784
MO18DD080	14	15	Peg	25014	0.121	1210
MO18DD080	15	16	Peg	25016	0.545	1160
MO18DD080	16	17	Peg	25017	0.146	1250
MO18DD080	17	18	Peg	25018	0.829	551
MO18DD080	18	19	Peg	25019	0.586	1160
MO18DD080	19	20	Peg	25020	0.665	939
MO18DD080	20	21.13	Peg	25021	1.23	1710
MO18DD080	21.13	22	Peg	25022	0.898	1350
MO18DD080	22	23	Peg	25023	0.801	1610
MO18DD080	23	24	Peg	25024	0.648	1560
MO18DD080	24	25	Peg	25026	2.09	1430
MO18DD080	25	26.45	Peg	25027	1.415	1330
MO18DD080	26.45	26.75	LC	NS_80_8		
MO18DD080	26.75	28	Peg	25028	0.771	1080
MO18DD080	28	29	Peg	25029	1.3	1130
MO18DD080	29	30	Peg	25031	1.7	1100
MO18DD080	30	31	Peg	25032	1.09	825
MO18DD080	31	32	Peg	25033	1.975	1210
MO18DD080	32	33	Peg	25034	1.695	1320
MO18DD080	33	34	Peg	25036	1.805	1055
MO18DD080	34	35	Peg	25037	1.485	1010
MO18DD080	35	36	Peg	25038	0.489	718
MO18DD080	36	37	Peg	25039	0.428	917
MO18DD080	37	38	Peg	25040	0.558	452
MO18DD080	38	39	Peg	25041	0.622	479
MO18DD080	39	40	Peg	25042	1.035	1675
MO18DD080	40	41	Peg	25043	1.04	1580
MO18DD080	41	42	Peg	25044	0.891	876
MO18DD080	42	43	Peg	25045	1.23	412
MO18DD080	43	44	Peg	25046	0.123	1015
MO18DD080	44	45	Peg	25047	0.769	1840
MO18DD080	45	46	Peg	25048	0.252	1275
MO18DD080	46	47	Peg	25049	1.395	1675
MO18DD080	47	48	Peg	25051	1.07	1290
MO18DD080	48	49	Peg	25052	1.665	492
MO18DD080	49	50	Peg	25053	1.095	2130

MO18DD080	50	51	Peg	25054	0.889	1050
MO18DD080	51	52	Peg	25056	2.04	872
MO18DD080	52	53	Peg	25057	2.07	740
MO18DD080	53	54	Peg	25058	1.325	1385
MO18DD080	54	55	Peg	25059	0.588	1520
MO18DD080	55	56	Peg	25060	0.71	1575
MO18DD080	56	57	Peg	25061	0.885	1685
MO18DD080	57	58	Peg	25062	0.88	1800
MO18DD080	58	59	Peg	25063	0.357	1610
MO18DD080	59	60	Peg	25064	0.114	525
MO18DD080	60	61	Peg	25066	0.052	1420
MO18DD080	61	62	Peg	25067	0.469	907
MO18DD080	62	63	Peg	25068	1.72	841
MO18DD080	63	64	Peg	25069	0.465	2210
MO18DD080	64	65	Peg	25071	1.485	1470
MO18DD080	65	66	Peg	25072	1.16	3030
MO18DD080	66	67	Peg	25073	0.824	1970
MO18DD080	67	68	Peg	25074	0.581	870
MO18DD080	68	69	Peg	25076	0.248	1570
MO18DD080	69	70	Peg	25077	0.077	1810
MO18DD080	70	71	Peg	25078	0.138	890
MO18DD080	71	72	Peg	25079	0.114	1080
MO18DD080	72	73	Peg	25080	0.101	1790
MO18DD080	73	74	Peg	25081	0.086	2540
MO18DD080	74	75	Peg	25082	0.084	1360
MO18DD080	75	76	Peg	25083	0.054	973
MO18DD080	76	77	Peg	25084	0.05	624
MO18DD080	77	78	Peg	25085	0.028	526
MO18DD080	78	79	Peg	25086	0.009	1220
MO18DD080	79	80	Peg	25087	0.009	1020
MO18DD080	80	81	Peg	25088	0.011	1360
MO18DD080	81	82	Peg	25089	0.011	721
MO18DD080	82	83	Peg	25091	0.017	2370
MO18DD080	83	84	Peg	25092	0.013	447
MO18DD080	84	85	Peg	25093	0.019	569
MO18DD080	85	86	Peg	25094	0.043	1280
MO18DD080	86	87	Peg	25096	0.03	1420
MO18DD080	87	88	Peg	25097	0.03	969
MO18DD080	88	89	Peg	25098	0.065	498
MO18DD080	89	90	Peg	25099	0.084	1110
MO18DD080	90	91	Peg	25100	0.056	849
MO18DD080	91	92	Peg	25101	0.073	993
MO18DD080	92	93	Peg	25102	0.05	1100
MO18DD080	93	94	Peg	25103	0.039	1360
MO18DD080	94	95	Peg	25104	0.032	934
MO18DD080	95	95.23	LC	NS_80_9		
MO18DD080	95.23	96	Peg	25106	0.555	653
MO18DD080	96	97	Peg	25107	0.441	440

MO18DD080	97	98	Peg	25108	0.738	924
MO18DD080	98	99	Peg	25109	0.405	1050
MO18DD080	99	100	Peg	25111	0.067	1710
MO18DD080	100	101	Peg	25112	0.833	1050
MO18DD080	101	102	Peg	25113	0.704	652
MO18DD080	102	103	Peg	25114	0.842	762
MO18DD080	103	104	Peg	25116	1.67	755
MO18DD080	104	105	Peg	25117	1.02	680
MO18DD080	105	106	Peg	25118	2.08	1200
MO18DD080	106	107	Peg	25119	0.827	1250
MO18DD080	107	108	Peg	25120	1.415	616
MO18DD080	108	109	Peg	25121	0.129	1010
MO18DD080	109	110	Peg	25122	0.045	1170
MO18DD080	110	111	Peg	25123	0.282	1130
MO18DD080	111	112	Peg	25124	0.136	1130
MO18DD080	112	113	Peg	25125	0.542	1090
MO18DD080	113	114	Peg	25126	1.12	1790
MO18DD080	114	115	Peg	25127	1.06	765
MO18DD080	115	116	Peg	25128	0.973	769
MO18DD080	116	117	Peg	25129	1.33	512
MO18DD080	117	118	Peg	25131	1.255	515
MO18DD080	118	119	Peg	25132	1.77	1020
MO18DD080	119	120	Peg	25133	1.095	1640
MO18DD080	120	121	Peg	25134	1.43	2040
MO18DD080	121	122	Peg	25136	1.88	1300
MO18DD080	122	123	Peg	25137	0.9	1290
MO18DD080	123	124	Peg	25138	1.41	804
MO18DD080	124	125	Peg	25139	1.165	763
MO18DD080	125	126	Peg	25140	1.34	1410
MO18DD080	126	127	Peg	25141	2.1	369
MO18DD080	127	128	Peg	25142	0.415	1030
MO18DD080	128	129	Peg	25143	1.64	847
MO18DD080	129	130	Peg	25144	1.07	1240
MO18DD080	130	131	Peg	25146	0.116	1890
MO18DD080	131	132	Peg	25147	0.14	1120
MO18DD080	132	133	Peg	25148	0.034	1170
MO18DD080	133	134	Peg	25149	0.034	1550
MO18DD080	134	135	Peg	25151	0.067	1250
MO18DD080	135	136	Peg	25152	0.889	1600
MO18DD080	136	137	Peg	25153	0.424	1010
MO18DD080	137	138	Peg	25154	0.362	615
MO18DD080	138	139	Peg	25156	0.058	1570
MO18DD080	139	140	Peg	25157	0.357	1120
MO18DD080	140	141	Peg	25158	0.037	1030
MO18DD080	141	142	Peg	25159	0.032	1290
MO18DD080	142	143	Peg	25160	0.037	1680
MO18DD080	143	144	Peg	25161	0.03	1490
MO18DD080	144	145	Peg	25162	0.043	2040

MO18DD080	145	146	Peg	25163	0.03	923
MO18DD080	146	147	Peg	25164	0.047	1400
MO18DD080	147	148	Peg	25165	0.077	2130
MO18DD080	148	149	Peg	25166	0.047	1800
MO18DD080	149	150	Peg	25167	0.314	1310
MO18DD080	150	151	Peg	25168	0.682	1380
MO18DD080	151	152	Peg	25169	1.18	1070
MO18DD080	152	153	Peg	25171	1.175	1690
MO18DD080	153	154	Peg	25172	1.4	932
MO18DD080	154	155	Peg	25173	1.205	1470
MO18DD080	155	156	Peg	25174	1.315	244
MO18DD080	156	157	Peg	25176	0.594	820
MO18DD080	157	158	Peg	25177	1.05	1980
MO18DD080	158	159	Peg	25178	0.874	1430
MO18DD080	159	159.98	Grs	25179	0.043	710
MO18DD080	159.98	161	HMs	25180	0.19	101
MO18DD080	161	162	HMs/Dol	25181	0.125	62
MO18DD081	0	1		NS_81		
MO18DD081	1	2	Peg	25191	0.073	660
MO18DD081	2	2.6	Peg	25192	0.069	695
MO18DD081	2.6	3.2	LC	NS_81_1		
MO18DD081	3.2	4	Peg	25193	0.043	1040
MO18DD081	4	5	Peg	25194	0.093	401
MO18DD081	5	6	Peg	25195	0.112	1080
MO18DD081	6	7	Peg	25196	0.129	1040
MO18DD081	7	8	Peg	25197	0.084	1010
MO18DD081	8	9.4	Peg	25198	0.093	1380
MO18DD081	9.4	9.85	LC	NS_81_2		
MO18DD081	9.85	11.05	Peg	25199	0.138	1570
MO18DD081	11.05	11.35	LC	NS_81_3		
MO18DD081	11.35	12	Peg	25201	0.121	1150
MO18DD081	12	13	Peg	25202	0.149	2380
MO18DD081	13	14.25	Peg	25203	0.241	1700
MO18DD081	14.25	15.35	LC	NS_81_4		
MO18DD081	15.35	16	Peg	25204	0.415	1630
MO18DD081	16	17	Peg	25206	1.05	1420
MO18DD081	17	18	Peg	25207	1.175	1940
MO18DD081	18	19	Peg	25208	0.482	1620
MO18DD081	19	20.2	Peg	25209	0.194	1760
MO18DD081	20.2	20.35	Peg	NS_81_5		
MO18DD081	20.35	21	Peg	25210	0.131	1940
MO18DD081	21	22	Peg	25211	0.885	1990
MO18DD081	22	23	Peg	25212	0.502	2340
MO18DD081	23	24	Peg	25213	0.56	1710
MO18DD081	24	25	Peg	25214	0.405	3090
MO18DD081	25	26	Peg	25216	0.215	1640
MO18DD081	26	27	Peg	25217	0.932	1100
MO18DD081	27	28	Peg	25218	1.1	2210

MO18DD081	28	29	Peg	25219	1.7	1300
MO18DD081	29	30	Peg	25221	1.04	1710
MO18DD081	30	31	Peg	25222	0.428	1290
MO18DD081	31	32	Peg	25223	0.252	1700
MO18DD081	32	32.85	Peg	25224	0.198	530
MO18DD081	32.85	34	Peg	25226	0.185	8330
MO18DD081	34	35	Peg	25227	0.928	1630
MO18DD081	35	36	Peg	25228	1.945	229
MO18DD081	36	37	Peg	25229	1.465	577
MO18DD081	37	38	Peg	25230	0.781	664
MO18DD081	38	39	Peg	25231	0.911	1290
MO18DD081	39	40	Peg	25232	0.112	1390
MO18DD081	40	41	Peg	25233	0.329	1800
MO18DD081	41	42	Peg	25234	1.13	1190
MO18DD081	42	43	Peg	25235	2.24	1450
MO18DD081	43	44	Peg	25236	1.655	1420
MO18DD081	44	45	Peg	25237	1.675	934
MO18DD081	45	46	Peg	25238	0.917	996
MO18DD081	46	47	Peg	25239	1.265	1530
MO18DD081	47	48	Peg	25241	1.92	1000
MO18DD081	48	49	Peg	25242	1.3	1000
MO18DD081	49	50	Peg	25243	1.24	765
MO18DD081	50	51	Peg	25244	1.1	1200
MO18DD081	51	52	Peg	25246	0.461	1320
MO18DD081	52	53	Peg	25247	0.661	1650
MO18DD081	53	54	Peg	25248	0.911	1330
MO18DD081	54	55	Peg	25249	0.975	1200
MO18DD081	55	56	Peg	25250	0.82	1150
MO18DD081	56	57	Peg	25251	1.115	1630
MO18DD081	57	58	Peg	25252	0.564	1640
MO18DD081	58	59	Peg	25253	0.865	1400
MO18DD081	59	60	Peg	25254	0.876	800
MO18DD081	60	61	Peg	25256	0.129	1290
MO18DD081	61	62	Peg	25257	0.075	570
MO18DD081	62	63	Peg	25258	0.077	1370
MO18DD081	63	64	Peg	25259	0.073	759
MO18DD081	64	65	Peg	25261	0.2	988
MO18DD081	65	66	Peg	25262	0.334	1560
MO18DD081	66	67	Peg	25263	0.095	961
MO18DD081	67	68	Peg	25264	0.086	1020
MO18DD081	68	69	Peg	25266	0.095	878
MO18DD081	69	70	Peg	25267	0.215	1480
MO18DD081	70	71	Peg	25268	0.446	1380
MO18DD081	71	72	Peg	25269	0.312	2560
MO18DD081	72	73	Peg	25270	0.062	1020
MO18DD081	73	74	Peg	25271	0.084	706
MO18DD081	74	75	Peg	25272	0.069	584
MO18DD081	75	76	Peg	25273	0.082	566

MO18DD081	76	77	Peg	25274	0.093	806
MO18DD081	77	78	Peg	25275	0.073	882
MO18DD081	78	79	Peg	25276	0.084	1010
MO18DD081	79	80	Peg	25277	0.321	1140
MO18DD081	80	81	Peg	25278	1.465	1990
MO18DD081	81	82	Peg	25279	0.075	965
MO18DD081	82	83	Peg	25281	0.269	1380
MO18DD081	83	84	Peg	25282	0.598	1230
MO18DD081	84	85	Peg	25283	0.116	1330
MO18DD081	85	86.18	Peg	25284	0.086	1750
MO18DD081	86.18	86.78	LC	NS_81_6		
MO18DD081	86.78	88	Peg	25286	0.108	814
MO18DD081	88	89	Peg	25287	0.047	1250
MO18DD081	89	90	Peg	25288	0.045	2170
MO18DD081	90	91	Peg	25289	0.037	1050
MO18DD081	91	92	Peg	25290	0.028	687
MO18DD081	92	93	Peg	25291	0.019	422
MO18DD081	93	94	Peg	25292	0.054	1500
MO18DD081	94	95	Peg	25293	0.058	515
MO18DD081	95	96	Peg	25294	0.067	862
MO18DD081	96	97	Peg	25296	0.067	569
MO18DD081	97	98	Peg	25297	0.065	2190
MO18DD081	98	99	Peg	25298	0.062	954
MO18DD081	99	100	Peg	25299	0.052	2440
MO18DD081	100	101	Peg	25301	0.075	1380
MO18DD081	101	102	Peg	25302	0.103	717
MO18DD081	102	103	Peg	25303	0.071	569
MO18DD081	103	104	Peg	25304	0.093	1040
MO18DD081	104	105	Peg	25306	0.157	1250
MO18DD081	105	106	Peg	25307	0.534	885
MO18DD081	106	107	Peg	25308	0.773	500
MO18DD081	107	108	Peg	25309	0.082	683
MO18DD081	108	109	Peg	25310	0.736	938
MO18DD081	109	110	Peg	25311	1.435	795
MO18DD081	110	111	Peg	25312	1.015	1160
MO18DD081	111	112	Peg	25313	0.181	1040
MO18DD081	112	113	Peg	25314	1.085	586
MO18DD081	113	114	Peg	25315	0.898	2020
MO18DD081	114	115	Peg	25316	0.497	817
MO18DD081	115	116	Peg	25317	1.115	1030
MO18DD081	116	117	Peg	25318	0.517	604
MO18DD081	117	118	Peg	25319	0.054	4900
MO18DD081	118	119	Peg	25321	0.045	438
MO18DD081	119	120	Peg	25322	0.215	2490
MO18DD081	120	121	Peg	25323	0.969	1300
MO18DD081	121	122	Peg	25324	0.069	493
MO18DD081	122	123	Peg	25326	0.075	706
MO18DD081	123	123.93	Peg	25327	0.067	563

MO18DD081	123.93	125.4	HMs	25328	0.129	200
MO18DD081	125.4	126.1	LC	NS_81_7		
MO18DD081	126.1	127	Peg	25329	0.045	114
MO18DD081	127	128	Peg	25330	0.034	410
MO18DD081	128	129	Peg	25331	0.054	41
MO18DD081	129	130	Peg	25332	0.032	134
MO18DD081	130	131.15	Peg	25333	0.024	645
MO18DD081	131.15	132.15	Dol	25334	0.047	20
MO18DD081	132.15	133.15	Dol	25335	0.045	16
MO18DD082	0	1.36	Peg	25481	0.114	599
MO18DD082	1.36	1.5	LC	NS_82_1		
MO18DD082	1.5	2	Peg	25482	0.14	177
MO18DD082	2	3	Peg	25483	0.067	99
MO18DD082	3	4	Peg	25484	0.116	847
MO18DD082	4	5	Peg	25485	0.103	214
MO18DD082	5	5.75	Peg	25486	0.144	236
MO18DD082	5.75	6.25	LC	NS_82_2		
MO18DD082	6.25	7	Peg	25487	0.11	148
MO18DD082	7	8.4	LC	NS_82_3		
MO18DD082	8.4	8.9	Peg	25488	0.142	956
MO18DD082	8.9	9.25	LC	NS_82_4		
MO18DD082	9.25	9.6	Peg	25489	0.058	666
MO18DD082	9.6	9.75	LC	NS_82_5		
MO18DD082	9.75	10.15	Peg	25491	0.794	378
MO18DD082	10.15	10.75	LC	NS_82_6		
MO18DD082	10.75	12	Peg	25492	0.084	963
MO18DD082	12	13	Peg	25493	0.344	1160
MO18DD082	13	14	Peg	25494	1.62	769
MO18DD082	14	14.75	Peg	25496	0.908	478
MO18DD082	14.75	15	LC	NS_82_7		
MO18DD082	15	16	Peg	25497	1.685	938
MO18DD082	16	17	Peg	25498	1.725	834
MO18DD082	17	18	Peg	25499	0.601	1120
MO18DD082	18	18.55	Peg	25500	0.189	1160
MO18DD082	18.55	18.74	LC	NS_82_8		
MO18DD082	18.74	20	Peg	25501	0.764	824
MO18DD082	20	21	Peg	25502	1.17	1000
MO18DD082	21	21.58	Peg	25503	1.02	1190
MO18DD082	21.58	21.76	LC	NS_85_9		
MO18DD082	21.76	23	Peg	25504	1.085	1230
MO18DD082	23	24	Peg	25506	0.904	599
MO18DD082	24	25	Peg	25507	1.445	759
MO18DD082	25	26	Peg	25508	1.015	795
MO18DD082	26	27	Peg	25509	2.3	1320
MO18DD082	27	28	Peg	25511	0.85	1630
MO18DD082	28	29	Peg	25512	1.285	410
MO18DD082	29	30	Peg	25513	0.988	738
MO18DD082	30	31	Peg	25514	0.568	1470

MO18DD082	31	32	Peg	25516	0.844	1225
MO18DD082	32	33	Peg	25517	0.751	1095
MO18DD082	33	34	Peg	25518	2.11	855
MO18DD082	34	35	Peg	25519	1.69	1370
MO18DD082	35	36	Peg	25520	1.605	824
MO18DD082	36	37	Peg	25521	1.66	817
MO18DD082	37	37.98	Peg	25522	1.71	1130
MO18DD082	37.98	38.18	LC	NS_82_10		
MO18DD082	38.18	39	Peg	25523	2.38	533
MO18DD082	39	40	Peg	25524	2	599
MO18DD082	40	41	Peg	25525	1.905	965
MO18DD082	41	42	Peg	25526	1.645	901
MO18DD082	42	43	Peg	25527	1.5	917
MO18DD082	43	44	Peg	25528	1.44	1475
MO18DD082	44	45	Peg	25529	1.925	883
MO18DD082	45	46	Peg	25531	1.61	1170
MO18DD082	46	46.98	Peg	25532	0.947	1620
MO18DD082	46.98	47.18	LC	NS_82_11		
MO18DD082	47.18	48	Peg	25533	1.43	1140
MO18DD082	48	49	Peg	25534	0.05	549
MO18DD082	49	50	Peg	25536	0.037	195
MO18DD082	50	51	Peg	25537	0.05	947
MO18DD082	51	52	Peg	25538	0.054	662
MO18DD082	52	53	Peg	25539	0.024	781
MO18DD082	53	54	Peg	25540	0.024	647
MO18DD082	54	55	Peg	25541	0.028	1790
MO18DD082	55	56	Peg	25542	0.045	1185
MO18DD082	56	57	Peg	25543	0.217	1785
MO18DD082	57	58	Peg	25544	0.54	824
MO18DD082	58	59	Peg	25546	0.491	1575
MO18DD082	59	60	Peg	25547	0.112	1070
MO18DD082	60	61	Peg	25548	0.172	584
MO18DD082	61	62	Peg	25549	0.824	960
MO18DD082	62	63	Peg	25551	1.535	1770
MO18DD082	63	64	Peg	25552	1.115	851
MO18DD082	64	65	Peg	25553	0.995	613
MO18DD082	65	66	Peg	25554	1.79	635
MO18DD082	66	67	Peg	25556	1.915	657
MO18DD082	67	68	Peg	25557	1.385	752
MO18DD082	68	69	Peg	25558	1.6	885
MO18DD082	69	70	Peg	25559	1.645	1070
MO18DD082	70	71	Peg	25560	1.16	683
MO18DD082	71	72	Peg	25561	1.49	852
MO18DD082	72	73	Peg	25562	2.86	1050
MO18DD082	73	74	Peg	25563	3.24	344
MO18DD082	74	75	Peg	25564	2.31	1020
MO18DD082	75	76	Peg	25565	1.24	1320
MO18DD082	76	77	Peg	25566	1.85	204

MO18DD082	77	78	Peg	25567	1.235	380
MO18DD082	78	79	Peg	25568	1.61	956
MO18DD082	79	80	Peg	25569	0.661	1340
MO18DD082	80	81	Peg	25571	1.505	1415
MO18DD082	81	82	Peg	25572	1.635	981
MO18DD082	82	83	Peg	25573	1.15	1220
MO18DD082	83	84	Peg	25574	1.695	1045
MO18DD082	84	85	Peg	25576	1.205	1420
MO18DD082	85	86	Peg	25577	1.585	1515
MO18DD082	86	87	Peg	25578	1.95	1280
MO18DD082	87	88	Peg	25579	2.7	704
MO18DD082	88	89	Peg	25580	1.275	1575
MO18DD082	89	90	Peg	25581	2.01	353
MO18DD082	90	91	Peg	25582	1.13	1835
MO18DD082	91	92	Peg	25583	2.36	864
MO18DD082	92	93	Peg	25584	2.55	1100
MO18DD082	93	94	Peg	25586	1.57	463
MO18DD082	94	95	Peg	25587	1.94	529
MO18DD082	95	96	Peg	25588	1.04	1430
MO18DD082	96	97	Peg	25589	2	1025
MO18DD082	97	98	Peg	25591	0.269	767
MO18DD082	98	99	Peg	25592	0.09	982
MO18DD082	99	100	Peg	25593	1.355	1625
MO18DD082	100	101	Peg	25594	0.883	958
MO18DD082	101	102	Peg	25596	1.735	2030
MO18DD082	102	103	Peg	25597	0.919	919
MO18DD082	103	104	Peg	25598	1.34	1290
MO18DD082	104	105	Peg	25599	2.51	1150
MO18DD082	105	106	Peg	25600	1.74	779
MO18DD082	106	107	Peg	25601	1.62	1430
MO18DD082	107	108	Peg	25602	0.986	1330
MO18DD082	108	109	Peg	25603	1.635	961
MO18DD082	109	110	Peg	25604	1.625	1115
MO18DD082	110	111	Peg	25605	2.09	1175
MO18DD082	111	112	Peg	25606	2.72	1110
MO18DD082	112	113	Peg	25607	1.69	724
MO18DD082	113	114	Peg	25608	1.26	672
MO18DD082	114	115	Peg	25609	1.96	944
MO18DD082	115	116	Peg	25611	1.855	1260
MO18DD082	116	117	Peg	25612	2.3	1495
MO18DD082	117	118	Peg	25613	2.63	1950
MO18DD082	118	119	Peg	25614	1.685	1490
MO18DD082	119	120	Peg	25616	1.435	1300
MO18DD082	120	121	Peg	25617	0.566	1790
MO18DD082	121	122	Peg	25618	2.35	1500
MO18DD082	122	123	Peg	25619	2.29	1060
MO18DD082	123	124	Peg	25620	1.705	1110
MO18DD082	124	125	Peg	25621	1.93	938

MO18DD082	125	126	Peg	25622	1.19	977
MO18DD082	126	127	Peg	25623	1.39	1750
MO18DD082	127	128	Peg	25624	1.32	1840
MO18DD082	128	129	Peg	25626	1.605	1430
MO18DD082	129	130	Peg	25627	1.765	698
MO18DD082	130	131	Peg	25628	2.3	1160
MO18DD082	131	132	Peg	25629	2.34	659
MO18DD082	132	133	Peg	25631	1.765	1110
MO18DD082	133	134	Peg	25632	2.41	1140
MO18DD082	134	135	Peg	25633	2	1160
MO18DD082	135	136	Peg	25634	2.48	1160
MO18DD082	136	137	Peg	25636	1.455	1380
MO18DD082	137	138	Peg	25637	1.74	1790
MO18DD082	138	139	Peg	25638	2.12	1310
MO18DD082	139	140	Peg	25639	1.815	1390
MO18DD082	140	141	Peg	25640	2.29	7110
MO18DD082	141	142	Peg	25641	2.08	6840
MO18DD082	142	143	Peg	25642	1.605	219
MO18DD082	143	144	Peg	25643	1.92	1620
MO18DD082	144	145	Peg	25644	1.97	3650
MO18DD082	145	146	Peg	25645	1.18	1480
MO18DD082	146	147	Peg	25646	1.09	845
MO18DD082	147	148	Peg	25647	1.66	2190
MO18DD082	148	149	Peg	25648	1.705	2780
MO18DD082	149	150	Peg	25649	2.55	200
MO18DD082	150	151	Peg	25651	1.455	1480
MO18DD082	151	152	Peg	25652	1.225	796
MO18DD082	152	153	Peg	25653	1.855	1630
MO18DD082	153	154	Peg	25654	2.6	734
MO18DD082	154	155	Peg	25656	1.16	2350
MO18DD082	155	156	Peg	25657	1.175	1300
MO18DD082	156	157	Peg	25658	2.56	1000
MO18DD082	157	158	Peg	25659	1.735	2450
MO18DD082	158	159	Peg	25660	1.175	1650
MO18DD082	159	160	Peg	25661	1.74	986
MO18DD082	160	161	Peg	25662	1.815	715
MO18DD082	161	162	Peg	25663	1.99	1910
MO18DD082	162	163	Peg	25664	1.64	1320
MO18DD082	163	164	Peg	25666	1.395	1560
MO18DD082	164	165	Peg	25667	1.68	1200
MO18DD082	165	166	Peg	25668	2.05	1230
MO18DD082	166	167	Peg	25669	1.175	1400
MO18DD082	167	168	Peg	25671	1.79	896
MO18DD082	168	169	Peg	25672	1.42	1540
MO18DD082	169	170	Peg	25673	2.01	1840
MO18DD082	170	171	Peg	25674	1.345	1340
MO18DD082	171	172	Peg	25676	1.73	1930
MO18DD082	172	173	Peg	25677	1.525	1510

MO18DD082	173	174	Peg	25678	1.725	1920
MO18DD082	174	175	Peg	25679	1.68	1610
MO18DD082	175	176	Peg	25680	1.84	906
MO18DD082	176	177	Peg	25681	1.235	1220
MO18DD082	177	178	Peg	25682	1.375	2070
MO18DD082	178	179	Peg	25683	1.89	1370
MO18DD082	179	180	Peg	25684	1.245	1030
MO18DD082	180	181	Peg	25685	1.875	6980
MO18DD082	181	182	Peg	25686	2.38	1460
MO18DD082	182	183	Peg	25687	1.785	947
MO18DD082	183	184	Peg	25688	1.905	1150
MO18DD082	184	185	Peg	25689	2.01	2010
MO18DD082	185	186	Peg	25691	1.87	876
MO18DD082	186	187	Peg	25692	1.995	839
MO18DD082	187	188	Peg	25693	1.455	770
MO18DD082	188	189	Peg	25694	1.785	1540
MO18DD082	189	190	Peg	25696	1.925	1380
MO18DD082	190	191	Peg	25697	1.165	1790
MO18DD082	191	192	Peg	25698	1.1	1300
MO18DD082	192	193	Peg	25699	1.195	1740
MO18DD082	193	194	Peg	25700	1.61	1350
MO18DD082	194	195	Peg	25701	1.145	1870
MO18DD082	195	196	Peg	25702	1.35	1210
MO18DD082	196	197	Peg	25703	1.645	1240
MO18DD082	197	198	Peg	25704	1.585	1080
MO18DD082	198	199	Peg	25706	1.56	884
MO18DD082	199	200	Peg	25707	1.49	1680
MO18DD082	200	201	Peg	25708	1.935	2810
MO18DD082	201	202	Peg	25709	1.72	980
MO18DD082	202	203	Peg	25711	1.81	575
MO18DD082	203	204	Peg	25712	1.2	1640
MO18DD082	204	205	Peg	25713	1.285	759
MO18DD082	205	206	Peg	25714	1.285	1090
MO18DD082	206	207	Peg	25716	2.26	1260
MO18DD082	207	208	Peg	25717	2.02	1360
MO18DD082	208	209	Peg	25718	2.36	1130
MO18DD082	209	210	Peg	25719	1.92	1420
MO18DD082	210	211	Peg	25720	1.755	772
MO18DD082	211	212	Peg	25721	2.55	656
MO18DD082	212	213	Peg	25722	2.68	910
MO18DD082	213	214	Peg	25723	1.47	1290
MO18DD082	214	215	Peg	25724	1.44	801
MO18DD082	215	216	Peg	25725	2.1	1170
MO18DD082	216	217	Peg	25726	1.525	1170
MO18DD082	217	218	Peg	25727	1.315	757
MO18DD082	218	219	Peg	25728	0.784	1890
MO18DD082	219	220	Peg	25729	2.37	1250
MO18DD082	220	221	Peg	25731	2.03	1160

MO18DD082	221	222	Peg	25732	1.725	964
MO18DD082	222	223	Peg	25733	1.53	1140
MO18DD082	223	224	Peg	25734	1.13	1120
MO18DD082	224	225	Peg	25736	2.53	653
MO18DD082	225	226	Peg	25737	0.71	2150
MO18DD082	226	227	Peg	25738	1.86	128
MO18DD082	227	228	Peg	25739	1.3	205
MO18DD082	228	229	Peg	25740	0.271	1250
MO18DD082	229	230	Peg	25741	1.485	181
MO18DD082	230	231	Peg	25742	1.83	1670
MO18DD082	231	232	Peg	25743	1.925	468
MO18DD082	232	233	Peg	25744	0.588	1540
MO18DD082	233	234	Peg	25746	1.88	1410
MO18DD082	234	235	Peg	25747	1.57	1010
MO18DD082	235	236	Peg	25748	1.645	1140
MO18DD082	236	237	Peg	25749	2.07	913
MO18DD082	237	238	Peg	25751	1.69	747
MO18DD082	238	239	Peg	25752	1.97	578
MO18DD082	239	240	Peg	25753	2.56	343
MO18DD082	240	241	Peg	25754	3.35	296
MO18DD082	241	242	Peg	25756	1.535	166
MO18DD082	242	243	Peg	25757	1.82	203
MO18DD082	243	244	Peg	25758	1.58	364
MO18DD082	244	245	Peg	25759	2.53	1000
MO18DD082	245	246	Peg	25760	2.81	819
MO18DD082	246	247	Peg	25761	1.815	690
MO18DD082	247	248	Peg	25762	3.08	299
MO18DD082	248	249	Peg	25763	1.175	403
MO18DD082	249	250	Peg	25764	1.76	1560
MO18DD082	250	251	Peg	25765	2.28	1020
MO18DD082	251	252	Peg	25766	1.325	1320
MO18DD082	252	253	Peg	25767	2.2	553
MO18DD082	253	254	Peg	25768	2.11	414
MO18DD082	254	255	Peg	25769	1.52	877
MO18DD082	255	256	Peg	25771	1.665	424
MO18DD082	256	257	Peg	25772	1.675	575
MO18DD082	257	258	Peg	25773	2.15	624
MO18DD082	258	259	Peg	25774	2.59	400
MO18DD082	259	260	Peg	25776	2.52	415
MO18DD082	260	261	Peg	25777	0.799	212
MO18DD082	261	262	Peg	25778	3.63	260
MO18DD082	262	263	Peg	25779	1.885	255
MO18DD082	263	264	Peg	25780	2.54	279
MO18DD082	264	265	Peg	25781	2	2170
MO18DD082	265	266	Peg	25782	1.89	388
MO18DD082	266	267	Peg	25783	2.64	471
MO18DD082	267	268	Peg	25784	2.24	971
MO18DD082	268	269	Peg	25786	2.58	377

MO18DD082	269	270	Peg	25787	1.59	1140
MO18DD082	270	271	Peg	25788	1.275	407
MO18DD082	271	272	Peg	25789	1.54	448
MO18DD082	272	273	Peg	25791	2.31	698
MO18DD082	273	274	Peg	25792	1.925	896
MO18DD082	274	275	Peg	25793	2.3	743
MO18DD082	275	276	Peg	25794	2.18	406
MO18DD082	276	277	Peg	25796	1.265	428
MO18DD082	277	278	Peg	25797	1.43	681
MO18DD082	278	279	Peg	25798	1.755	882
MO18DD082	279	280	Peg	25799	2.16	1070
MO18DD082	280	281	Peg	25800	2.11	327
MO18DD082	281	282	Peg	25801	1.7	416
MO18DD082	282	283	Peg	25802	1.61	549
MO18DD082	283	284	Peg	25803	1.83	553
MO18DD082	284	285	Peg	25804	2.06	469
MO18DD082	285	286	Peg	25805	2.06	364
MO18DD082	286	287	Peg	25806	1.795	588
MO18DD082	287	288	Peg	25807	1.285	603
MO18DD082	288	289	Peg	25808	1.695	765
MO18DD082	289	290	Peg	25809	1.335	1520
MO18DD082	290	291	Peg	25811	2.68	1035
MO18DD082	291	292	Peg	25812	1.83	1435
MO18DD082	292	293	Peg	25813	2.68	965
MO18DD082	293	294	Peg	25814	2.21	762
MO18DD082	294	295	Peg	25816	3.44	854
MO18DD082	295	296	Peg	25817	2.44	1320
MO18DD082	296	297	Peg	25818	1.27	985
MO18DD082	297	298	Peg	25819	1.06	619
MO18DD082	298	299	Peg	25820	1.43	844
MO18DD082	299	300.18	Peg	25821	1.27	1165
MO18DD083	0	0.62	Peg	25351	0.114	445
MO18DD083	0.62	0.85	LC	NS_83_1		
MO18DD083	0.85	2	Peg	25352	0.144	797
MO18DD083	2	3	Peg	25353	0.164	1400
MO18DD083	3	4	Peg	25354	0.624	2850
MO18DD083	4	4.65	Peg	25355	1.095	556
MO18DD083	4.65	5.35	LC	NS_83_2		
MO18DD083	5.35	6.05	Peg	25356	0.435	1960
MO18DD083	6.05	6.85	LC	NS_83_3		
MO18DD083	6.85	7.6	Peg	25357	0.34	1830
MO18DD083	7.6	8.35	LC	NS_83_4		
MO18DD083	8.35	9	Peg	25358	0.816	2550
MO18DD083	9	10	Peg	25359	2.02	1010
MO18DD083	10	11	Peg	25361	0.863	1690
MO18DD083	11	12	Peg	25362	1.16	1380
MO18DD083	12	13	Peg	25363	0.368	1860
MO18DD083	13	13.7	Peg	25364	0.235	1650

MO18DD083	13.7	15.7		NS_83_5		
MO18DD083	15.7	17.05	Peg	25366	0.235	1900
MO18DD083	17.05	17.35	LC	NS_83_6		
MO18DD083	17.35	18	Peg	25367	0.704	1300
MO18DD083	18	19	Peg	25368	0.435	1680
MO18DD083	19	20	Peg	25369	1.475	1130
MO18DD083	20	21	Peg	25370	1.18	1760
MO18DD083	21	22	Peg	25371	1.89	614
MO18DD083	22	23	Peg	25372	1.46	1290
MO18DD083	23	24	Peg	25373	0.926	537
MO18DD083	24	25	Peg	25374	2.22	586
MO18DD083	25	26	Peg	25376	1.09	1250
MO18DD083	26	27	Peg	25377	0.385	964
MO18DD083	27	28	Peg	25378	0.661	1720
MO18DD083	28	28.85	Peg	25379	0.086	774
MO18DD083	28.85	29.35	LC	NS_83_7		
MO18DD083	29.35	30	Peg	25381	0.17	1410
MO18DD083	30	31	Peg	25382	0.069	786
MO18DD083	31	32	Peg	25383	0.028	1020
MO18DD083	32	33	Peg	25384	0.056	1750
MO18DD083	33	34	Peg	25386	0.028	497
MO18DD083	34	35	Peg	25387	0.067	2360
MO18DD083	35	35.61	Peg	25388	0.075	703
MO18DD083	35.61	37	Peg	25389	0.075	660
MO18DD083	37	38	Peg	25390	0.06	750
MO18DD083	38	39	Peg	25391	0.121	1610
MO18DD083	39	40	Peg	25392	0.069	1080
MO18DD083	40	41	Peg	25393	0.037	1090
MO18DD083	41	42	Peg	25394	0.058	809
MO18DD083	42	43	Peg	25395	0.037	1290
MO18DD083	43	44	Peg	25396	0.06	1030
MO18DD083	44	45	Peg	25397	0.075	786
MO18DD083	45	46	Peg	25398	0.043	1190
MO18DD083	46	47	Peg	25399	0.052	1070
MO18DD083	47	48	Peg	25401	0.052	2040
MO18DD083	48	49	Peg	25402	0.043	1340
MO18DD083	49	50	Peg	25403	0.069	2040
MO18DD083	50	51	Peg	25404	0.202	1960
MO18DD083	51	52	Peg	25406	0.392	1410
MO18DD083	52	53	Peg	25407	1.27	533
MO18DD083	53	53.38	LC	NS_83_8		
MO18DD083	53.38	54	Peg	25408	0.766	1090
MO18DD083	54	55	Peg	25409	1.1	899
MO18DD083	55	56	Peg	25410	1.605	828
MO18DD083	56	57	Peg	25411	0.297	2310
MO18DD083	57	58	Peg	25412	0.59	868
MO18DD083	58	59	Peg	25413	0.327	1010
MO18DD083	59	60	Peg	25414	1.175	921

MO18DD083	60	61	Peg	25416	0.375	1200
MO18DD083	61	62	Peg	25417	0.133	1120
MO18DD083	62	63	Peg	25418	0.108	3740
MO18DD083	63	64	Peg	25419	0.09	1030
MO18DD083	64	65	Peg	25421	0.062	1790
MO18DD083	65	66	Peg	25422	0.073	1360
MO18DD083	66	67	Peg	25423	0.082	1320
MO18DD083	67	68	Peg	25424	0.149	5930
MO18DD083	68	69	Peg	25426	0.114	1020
MO18DD083	69	70	Peg	25427	0.136	628
MO18DD083	70	71	Peg	25428	0.28	1140
MO18DD083	71	72	Peg	25429	0.534	1130
MO18DD083	72	73	Peg	25430	0.96	742
MO18DD083	73	74	Peg	25431	1.305	640
MO18DD083	74	75	Peg	25432	0.372	1510
MO18DD083	75	76	Peg	25433	1.75	1640
MO18DD083	76	77	Peg	25434	1	830
MO18DD083	77	78	Peg	25435	1.47	1120
MO18DD083	78	79	Peg	25436	2.49	904
MO18DD083	79	80	Peg	25437	1.815	1260
MO18DD083	80	81	Peg	25438	0.771	1100
MO18DD083	81	82	Peg	25439	1.455	1400
MO18DD083	82	83	Peg	25441	0.633	1540
MO18DD083	83	84	Peg	25442	0.146	1100
MO18DD083	84	85	Peg	25443	0.151	819
MO18DD083	85	86	Peg	25444	0.17	1850
MO18DD083	86	87	Peg	25446	0.769	1620
MO18DD083	87	88	Peg	25447	1.16	2120
MO18DD083	88	89	Peg	25448	1.56	552
MO18DD083	89	90	Peg	25449	0.911	826
MO18DD083	90	91	Peg	25450	1.385	1620
MO18DD083	91	92	Peg	25451	0.351	1010
MO18DD083	92	93	Peg	25452	0.887	1260
MO18DD083	93	94	Peg	25453	1.865	871
MO18DD083	94	95	Peg	25454	0.939	1360
MO18DD083	95	96	Peg	25456	0.833	1860
MO18DD083	96	97	Peg	25457	0.956	1850
MO18DD083	97	98	Peg	25458	0.65	1660
MO18DD083	98	99	Peg	25459	0.168	1910
MO18DD083	99	100	Peg	25461	0.185	913
MO18DD083	100	101	Peg	25462	0.166	583
MO18DD083	101	102	Peg	25463	0.626	951
MO18DD083	102	103	Peg	25464	0.517	785
MO18DD083	103	104	Peg	25466	0.097	653
MO18DD083	104	105	Peg	25467	0.108	924
MO18DD083	105	106.24	Peg	25468	0.095	560
MO18DD083	106.24	107.24	HMs	25469	0.101	57
MO18DD083	107.24	108.24	HMs	25470	0.121	31

JORC TABLE 1

Section 1 Sampling Techniques and Data

(Criteria in this section apply to all succeeding sections.)

Criteria	JORC Code explanation	Commentary
Sampling techniques	• *Nature and quality of sampling (e.g. cut channels, random chips, or specific specialised industry standard measurement tools appropriate to the minerals under investigation, such as down hole gamma sondes, or handheld XRF instruments, etc). These examples should not be taken as limiting the broad meaning of sampling.* • *Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.* • *Aspects of the determination of mineralisation that are Material to the Public Report.* • *In cases where 'industry standard' work has been done this would be relatively simple (e.g. 'reverse circulation drilling was used to obtain 1 m samples from which 3 kg was pulverised to produce a 30 g charge for fire assay'). In other cases more explanation may be required, such as where there is coarse gold that has inherent sampling problems. Unusual commodities or mineralisation types (e.g. submarine nodules) may warrant disclosure of detailed information.*	• Diamond drilling, producing drill core has been utilised to sample the pegmatite below ground surface. This method is recognised as providing the highest quality information and samples of the unexposed geology. • Supplementing the drilling data, surface samples were collected from outcrops, utilising channel sampling from trenches and point-source sampling of scattered outcrops. • Based on available data, there is nothing to indicate that drilling and sampling practices were not to normal industry standards at the time within the Manono licence PR13359. The pegmatite has been sampled from the hanging wall contact continuously through to the footwall contact. In addition, the host-rocks extending 2 m from the contacts have also been sampled. • Diamond drilling has been used to obtain core samples which have then been cut longitudinally. Intervals submitted for assay have been determined according to geological boundaries. Samples were taken at 1 m intervals. • The submitted half-core samples typically had a mass of 3 – 4 kg.
Drilling techniques	• *Drill type (e.g. core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc) and details (e.g. core diameter, triple or standard tube, depth of diamond tails, face-sampling bit or other type, whether core is oriented and if so, by what method, etc).*	• The drilling was completed using diamond core rigs with PQ used from surface to sample through to fresh-rock and HQ sized drill rods used after the top-of-fresh-rock had been intersected. Most holes are angled between 50° and 75° and collared from surface into weathered bedrock. All collars were surveyed after completion. All holes were downhole surveyed using a digital multi-shot camera at about 30 m intervals. Apart from drillholes MO17DD001, MO17DD002, MO18DD001 and MO18DD008, all core was oriented.

Criteria	JORC Code explanation	Commentary
Drill sample recovery	• *Method of recording and assessing core and chip sample recoveries and results assessed.* • *Measures taken to maximise sample recovery and ensure representative nature of the samples.* • *Whether a relationship exists between sample recovery and grade and whether sample bias may have occurred due to preferential loss/gain of fine/coarse material.*	• Drill core recovery attained >97% in the pegmatite. • Based upon the high recovery, AVZ did not have to implement additional measures to improve sample recovery and the drill core is considered representative and fit for sampling. • For the vast majority of drilling completed, core recovery was near 100% and there is no sample bias due to preferential loss or gain of fine or coarse material.
Logging	• *Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate Mineral Resource estimation, mining studies and metallurgical studies.* • *Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography.* • *The total length and percentage of the relevant intersections logged.*	• Drill core was logged by qualified geologists using a data-logger and the logs were then uploaded into Geobank which is a part of the Micromine software system. The core was logged for geology and geotechnical properties (RQD & planar orientations). A complete copy of the data is held by an independent consultant. • All core was logged, and logging was by qualitative (lithology) and quantitative (RQD and structural features) methods. All core was also photographed both in dry and wet states, with the photographs stored in the database. • The entirety of all drillholes are logged for geological, mineralogical and geotechnical data.

Criteria	JORC Code explanation	Commentary
Sub-sampling techniques and sample preparation	• *If core, whether cut or sawn and whether quarter, half or all core taken.* • *If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.* • *For all sample types, the nature, quality and appropriateness of the sample preparation technique.* • *Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.* • *Measures taken to ensure that the sampling is representative of the in situ material collected, including for instance results for field duplicate/second-half sampling.* • *Whether sample sizes are appropriate to the grain size of the material being sampled.*	• Core is cut longitudinally, and half-core samples of a nominal 1 m length are submitted for assay. • The current programme is diamond core drilling. • The sample preparation for drill core samples incorporates standard industry practice. The half-core samples have been prepared at ALS Lubumbashi and the ALS sample preparation facility on site at Manono, with holes from MO18DD021 onwards being prepared at Manono. • At AVZ's onsite sample preparation facility the half-core samples of approximately 4-5 kg are oven dried, crushed to -2 mm with a 500 g sub-ample being split out. This 500 g sub-sample is then pulverised to produce a pulp with 85% passing -75um size fraction. A 120 g subsample is then split from this, the certified reference material, blanks and duplicates are inserted at appropriate intervals and then the complete sample batch is couriered to Australia for assay analysis. • Standard sub-sampling procedures are utilised by ALS Lubumbashi and ALS Manono at all stages of sample preparation such that each sub-sample split is representative of the whole it was derived from. • Duplicate sampling was undertaken for the drilling programme. After half-core samples were crushed at the ALS Lubumbashi and ALS Manono preparatory facility, an AVZ geologist took a split of the crushed sample which is utilised as a field duplicate. The geologist placed the split into a pre-numbered bag which was then inserted into the sample stream. It is then processed further, along with all the other samples. The drilling produced PQ and HQ drill core, providing a representative sample of the pegmatite which is coarse-grained. Sampling was mostly at 1 m intervals, and the submitted half-core samples typically had a mass of 3-4 kg.

Criteria	JORC Code explanation	Commentary
Quality of assay data and laboratory tests	• *The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.* • *For geophysical tools, spectrometers, handheld XRF instruments, etc, the parameters used in determining the analysis including instrument make and model, reading times, calibrations factors applied and their derivation, etc.* • *Nature of quality control procedures adopted (e.g. standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (i.e. lack of bias) and precision have been established.*	• Diamond drillhole (core) samples were submitted to ALS Lubumbashi and ALS Manono (DRC) where they were crushed and pulverised to produce pulps. These pulps were couriered to Australia and analysed by ALS Laboratories in Perth, Western Australia using a sodium peroxide fusion of a 5g charge followed by digestion of the prill using dilute hydrochloric acid thence determination by AES or MS, i.e. methods ME-ICP89 and ME-MS91. Samples from the drilling completed in 2017 i.e. MO17DD001 and MO17DD002, were assayed for a suite of 24 elements that included Li, Sn, Ta & Nb. Samples from the drilling completed in 2018 were assayed for a suite of 12 elements; Li, Sn, Ta, Nb, Al, Si, K, Fe, Mg, P, Th and U, with Li reported as Li_2O, Al as Al_2O_3, Si as SiO_2, K as K_2O, Mg as MgO, Fe as Fe_2O_3 and P as P_2O_5. • Peroxide fusion results in the complete digestion of the sample into a molten flux. As fusion digestions are more aggressive than acid digestion methods, they are suitable for many refractory, difficult-to-dissolve minerals such as chromite, ilmenite, spinel, cassiterite and minerals of the tantalum-tungsten solid solution series. They also provide a more-complete digestion of some silicate mineral species and are considered to provide the most reliable determinations of lithium mineralisation. • Sodium peroxide fusion is a total digest and considered the preferred method of assaying pegmatite samples. • Geophysical instruments were not used in assessing the mineralisation. • For the drilling, AVZ incorporated standard QAQC procedures to monitor the precision, accuracy and general reliability of all assay results from assays of drilling samples. As part of AVZ's sampling protocol, CRMs (standards), blanks and duplicates were inserted into the sampling stream. In addition, the laboratory (ALS Perth) incorporated its own internal QAQC procedures to monitor its assay results prior to release of results to AVZ. The Competent Person is satisfied that the results of the QAQC are acceptable and that the assay data from ALS is suitable for Mineral Resource estimation.

Criteria	JORC Code explanation	Commentary
Verification of sampling and assaying	• *The verification of significant intersections by either independent or alternative company personnel.* • *The use of twinned holes.* • *Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.* • *Discuss any adjustment to assay data.*	• MSA observed the mineralisation in the majority of cores on site, although no check assaying was completed by MSA. • MSA observed and photographed several collar positions in the field, along with rigs that were drilling at the time of the site visit. • Twinned holes for the verification of historical drilling, were not required. Short vertical historical holes were drilled within the pit but are neither accessible nor included within the database used to define the Mineral Resource. • Drilling data is stored on site as both hard and soft copy. Drilling data is validated onsite before being sent to data management consultants in Perth where the data is further validated. When results are received, they are loaded to the central database in Perth and shared with various stakeholders via the cloud. QC results are reviewed by both independent consultants and AVZ personnel at Manono. Hard copies of assay certificates are stored in AVZ's Perth offices. • AVZ has not adjusted assay data.
Location of data points	• *Accuracy and quality of surveys used to locate drill holes (collar and down-hole surveys), trenches, mine workings and other locations used in Mineral Resource estimation.* • *Specification of the grid system used.* • *Quality and adequacy of topographic control.*	• The drillhole collars have been located by a registered surveyor using a Hi-Target V30 Trimble differential GPS with an accuracy of +/- 0.02 m unless otherwise noted. • All holes were downhole surveyed using a digital multi-shot camera at approximately 30 m intervals. • For the purposes of geological modelling and estimation, the drillhole collars were projected onto this topographic surface. In most cases adjustments were within 1 m (in elevation). • Coordinates are relative to WGS 84 UTM Zone 35M.
Data spacing and distribution	• *Data spacing for reporting of Exploration Results.* • *Whether the data spacing and distribution is sufficient to establish the degree of geological and grade continuity appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications applied.* • *Whether sample compositing has been applied.*	• Drillhole spacing was completed on sections 100 m apart, and collars were 50 to 100 m apart on section where possible. In situations of difficult terrain, multiple holes were drilled from a single drill pad using differing angles for each drillhole.
Orientation of data in relation to geological structure	• *Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.* • *If the relationship between the drilling orientation and the orientation of key mineralised structures is considered to have introduced a sampling bias, this should be assessed and reported if material.*	• The drillhole orientation is designed to intersect the Roche Dure Pegmatite at, or nearly at, 90° to the plane of the pegmatite. • Some boreholes have been drilled from the north to intersect the footwall of the pegmatite and are drill slightly oblique to the dip of the pegmatite (see section for MO18DD070) • No material sampling bias exists due to drilling direction.

Criteria	JORC Code explanation	Commentary
Sample security	• *The measures taken to ensure sample security.*	• When utilizing ALS Lubumbashi, chain of custody is maintained by AVZ personnel on-site to Lubumbashi. Samples are stored on-site until they are delivered by AVZ personnel in sealed bags to the laboratory at ALS in Lubumbashi. The ALS laboratory checked received samples against the sample dispatch form and issues a reconciliation report. • At Lubumbashi, the prepared samples (pulps) are sealed in a box and delivered by DHL to ALS Perth. • ALS issue a reconciliation of each sample batch, actual received vs documented dispatch. • The ALS Manono site preparation facility is managed independently by ALS who supervise the sample preparation. Prepared samples are sealed in boxes and transported by air to ALS Lubumbashi and are accompanied by an AVZ employee, where export documentation and formalities are concluded. DHL couriers the samples to ALS in Perth.
Audits or reviews	• *The results of any audits or reviews of sampling techniques and data.*	• The sampling techniques were reviewed by the Competent Person during the site visit. • The Competent Person considers that the exploration work conducted by AVZ was carried out using appropriate techniques for the style of mineralisation at Roche Dure, and that the resulting database is suitable for Mineral Resource estimation.

Section 2 Reporting of Exploration Results

(Criteria listed in the previous section also apply to this section.)

Criteria	JORC Code explanation	Commentary
Mineral tenement and land tenure status	• *Type, reference name/number, location and ownership including agreements or material issues with third parties such as joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national park and environmental settings.* • *The security of the tenure held at the time of reporting along with any known impediments to obtaining a licence to operate in the area.*	• The Manono licence was awarded as Research Permit PR13359, issued on the 28th December 2016 to o La Congolaise d'Exploitation Miniere SA (Cominiere). It is valid for 5 years. On the 2nd February 2017, AVZ formed a joint-venture (JV) with Cominiere and Dathomir Mining Resources SARL (Dathomir) to become the majority partner in a JV aiming to explore and develop the pegmatites contained within PR 13359. Ownership of the Manono Lithium Project is AVZ 60%, Cominiere 30% and Dathomir 10%. • AVZ manages the project and meets all funding requirements. • All indigenous title is cleared and there are no other known historical or environmentally sensitive areas.
Exploration done by other parties	• *Acknowledgment and appraisal of exploration by other parties.*	• Within PR13359 exploration of relevance was undertaken by Geomines whom completed a programme of drilling between 1949 and 1951. The drilling consisted of 42 vertical holes drilled to a general depth of around 50 - 60 m. Drilling was carried out on 12 sections at irregular intervals ranging from 50 - 300 m, and over a strike length of some 1,100 m. Drill spacing on the sections varied from 50 - 100 m. The drilling occurred in the Roche Dure Pit only, targeting the fresh pegmatite in the Kitotolo sector of the project area. • The licence area has been previously mined for tin and tantalum through a series of open pits over a total length of approximately 10 km excavated by Zairetain SPRL. More than 60 Mt of material was mined from three major pits and several subsidiary pits focused on the weathered upper portions of the pegmatites. Ore was crushed and then upgraded through gravity separation to produce a concentrate of a reported 72% Sn. There are no reliable records available of tantalum or lithium recovery as tin was the primary mineral being recovered. • Apart from the mining excavations and the drilling programme, there has been very limited exploration work within the Manono region.

Criteria	JORC Code explanation	Commentary
Geology	• *Deposit type, geological setting and style of mineralisation.*	• The Project lies within the mid-Proterozoic Kibaran Belt - an intracratonic domain, stretching for over 1,000 km through Katanga and into southwest Uganda. The belt strikes predominantly SW-NE and is truncated by the N-S to NNW-SSE trending Western Rift system. The Kibaran Belt is comprised of a sedimentary and volcanic sequence that has been folded, metamorphosed and intruded by at least three separate phases of granite. The latest granite phase (900 to 950 million years ago) is assigned to the Katangan cycle and is associated with widespread vein and pegmatite mineralisation containing tin, tungsten, tantalum, niobium, lithium and beryllium. Deposits of this type occur as clusters and are widespread throughout the Kibaran terrain. In the DRC, the Katanga Tin Belt stretches over 500 km from near Kolwezi in the southwest to Kalemie in the northeast comprising numerous occurrences and deposits of which the Manono deposit is the largest. The geology of the Manono area is poorly documented and no reliable maps of local geology were observed. Recent mapping by AVZ has augmented the overview provided by Bassot and Morio (1989) and has led to the following description. The Manono Project pegmatites are hosted by a series of mica schists and by amphibolite in some locations. These host rocks have a steeply dipping penetrative foliation that appears to be parallel to bedding. There are numerous bodies of pegmatite, the largest of which have sub-horizontal to moderate dips, with dip direction being towards the southeast. The pegmatites post-date metamorphism, with all primary igneous textures intact. They cross-cut the host rocks but despite their large size, the contact deformation and metasomatism of the host rocks by the intrusion of the pegmatites seems minor. The absence of significant deformation of the schistosity of the host rocks implies that the pegmatites intruded brittle rocks. The pegmatites constitute a pegmatite swarm in which the largest pegmatites have an apparent en-echelon arrangement in a linear zone more than 12 km long. The pegmatites are exposed in two areas; Manono in the northeast, and Kitotolo in the southwest. These areas are separated by a 2.5 km section of alluvium-filled floodplain which contains Lake Lukushi. At least one large pegmatite extends beneath the floodplain. The pegmatites are members of the LCT-Rare Element group of pegmatites and within the pegmatite swarm there are LCT albite-spodumene pegmatites and LCT Complex (spodumene sub-type) pegmatites.

Criteria	JORC Code explanation	Commentary

Drill hole Information	• *A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drill holes:*
	  ○ *easting and northing of the drill hole collar*
	  ○ *elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar*
	  ○ *dip and azimuth of the hole*
	  ○ *down hole length and interception depth*
	  ○ *hole length.*
	• *If the exclusion of this information is justified on the basis that the information is not Material and this exclusion does not detract from the understanding of the report, the Competent Person should clearly explain why this is the case.*
		• See table for collar, survey and assay data.

Data aggregation methods	• *In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (e.g. cutting of high grades) and cut-off grades are usually Material and should be stated.* • *Where aggregate intercepts incorporate short lengths of high grade results and longer lengths of low grade results, the procedure used for such aggregation should be stated and some typical examples of such aggregations should be shown in detail.* • *The assumptions used for any reporting of metal equivalent values should be clearly stated.*	• Intersections are reported as length-weighted grades within the logged pegmatite. • No grade truncations were applied. • The majority of samples were taken at 1 m lengths. • No equivalent values are used or reported.
Relationship between mineralisation widths and intercept lengths	• *These relationships are particularly important in the reporting of Exploration Results.* • *If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported.* • *If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (e.g. 'down hole length, true width not known').*	• The majority of samples were taken at 1 m lengths. • There is no relationship between mineralisation width and grade. • The geometry of the mineralisation is reasonably well understood however the pegmatite is not of uniform thickness nor orientation. Consequently, most drilling intersections do not represent the exact true thickness of the intersected pegmatite, although intersections are reasonably close to true thickness in most cases.
Diagrams	• *Appropriate maps and sections (with scales) and tabulations of intercepts should be included for any significant discovery being reported These should include, but not be limited to a plan view of drill hole collar locations and appropriate sectional views.*	• The relevant plans and sections are included in this document.
Balanced reporting	• *Where comprehensive reporting of all Exploration Results is not practicable, representative reporting of both low and high grades and/or widths should be practiced to avoid misleading reporting of Exploration Results.*	• All pegmatite intersections for holes MO18DD072, 77, 78, 79, 80, 81, 82 and 83 are reported.

Criteria	JORC Code explanation	Commentary
Other substantive exploration data	• *Other exploration data, if meaningful and material, should be reported including (but not limited to): geological observations; geophysical survey results; geochemical survey results; bulk samples – size and method of treatment; metallurgical test results; bulk density, groundwater, geotechnical and rock characteristics; potential deleterious or contaminating substances.*	• No other exploration data is available.
Further work	• *The nature and scale of planned further work (e.g. tests for lateral extensions or depth extensions or large-scale step-out drilling).* • *Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.*	• Diamond drill testing of the identified priority targets will be on-going. • Drilling of 5 metallurgical test work drill holes has been completed.