



1978 GEOPHYSICAL ASSESSMENT REPORT

TITLE RE-INTERPRETATION OF FISHOOK CREEK GRAVITY SURVEY

CLAIMS AM 6,8,10,12,14,16,18,20,49-64, 91-108, 137-152
PM 3-8 Fr.

COMMODITY Pb-Zn

LOCATED Twenty miles northwest of Faro, Y.T.

Latitude $63^{\circ} 33'N$ Longitude $134^{\circ} 07'W$

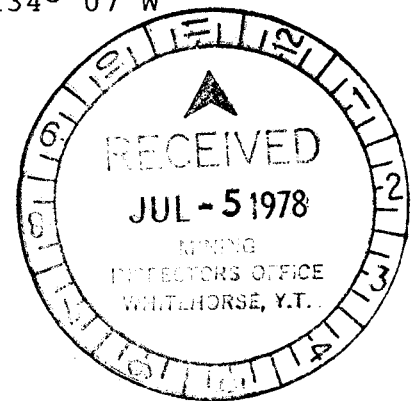
Whitehorse Mining District

105 L 8 & 9

BY C.A. AGER, PhD, P.Eng.

A.C. Hitchins

FOR AMAX POTASH LIMITED



WORK PERIOD: February 1 - February 28, 1978

090340

This report has been examined and approved by the Geological Engineer in Charge of the District Office of the United States Geological Survey, Denver, Colorado.

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See also report of work done under
Act of March 3, 1879, and Mining Act.

[Handwritten signature]

E. R. BAXTER
Supervising Mining Recorder

for Commissioner of Indian Territory

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GRAVITY MAPS
FISHOOK CREEK
PROJECT AREA

by

Charles A. Ager, PhD, PEng

February 28, 1978

TABLE OF CONTENTS

INTRODUCTION	page 1
TERRAIN CORRECTIONS	1
COMPLETE BOUGUER GRAVITY MAP	2
NON-LINEAR BOUGUER GRAVITY MAP	3
SUMMARY	6
REFERENCES	7

LIST OF FIGURES

FIGURE 1	ADJUSTED GRAVITY - ELEVATION PLOT #1	4
FIGURE 2	ADJUSYED GRAVITY - ELEVATION PLOT #2	5
FIGURE 3	COMPLETE BOUGUER GRAVITY MAP	Appendix Leaflet
FIGURE 4	NON-LINEAR BOUGUER GRAVITY MAP	"
FIGURE 5	TERRAIN EFFECTS MAP - WORKING COPY	"
FIGURE 6	SURFACE ELEVATION MAP - GALESKI'S COPY	"

APPENDIX

A. FISHCOCK CREEK GRAVITY DATA	8
B. NON-LINEAR LMS FIT GRAVITY DATA	31
C. Re-Interpretation of Gravity Survey	54
Figure 7 - Location Map 1"=120 miles	
Figure 8 - Claim Map 1"=1 mile	
D. Statement of Costs	56
E. Claim Status	57
F. Statement of Qualifications - A.C. Hitchins	58
G. Contractor Invoice	59

INTRODUCTION

At the request of Mr Larry LeBel, Amax Minerals Exploration, gravity data from the Fishhook Creek project area, Y.T. was reprocessed. The intent of the work was threefold:

1. To calculate terrain effects,
2. To calculate a complete Bouguer gravity map using Anvil Range phyllite densities, and
3. To calculate a regional-residual anomaly separation using a 'non-linear' elevation factor.

This brief report summarizes the procedures used and presents the maps so derived.

TERRAIN CORRECTIONS

Terrain effect corrections were calculated to a radius of 2000 feet about each station using computer techniques developed by Ager & Assoc Ltd. Elevations outside the survey area were estimated from an NTS 1:50,000 map enlargement supplied by Amax at map scale 1"=400'. Digitizing grid was 100' by 100'. Terrain density was taken to be 2.80 g/cc which is the mean density normally used for phyllites in the Anvil Range area.

The terrain effects for each station are listed in Appendix A and are given in hand contoured form on Figure 5. The values of the terrain effects range between about 0.10-5.00 mgals. As can

be seen on Figure 5, the largest terrain effects are generally in the steeper elevation areas, several of which are on the map edges. Away from the map edges, terrain effects are calculated to a relative accuracy of 10% or better. In the steep areas, near the edges of the map, as much as 20% error is possible due to the inaccuracies of the known elevations outside the surveyed area. For example, the -0.10 mgal gravity low on the southern ends of line 56E-72E corresponds to a 1.50-3.50 mgal terrain anomaly. Undercompensation here could easily add 0.50 mgals to the terrain effect (and hence the anomaly), and, as a result, the gravity high feature on the southern ends of L80E-L96E could be (?) a continuation of the values from the anomaly west of L56E. Simply stated, in areas of high terrain effects on map edges any gravity anomalies are suspect.

COMPLETE BOUGUER GRAVITY MAP

As is well known in exploration geophysics, the observed gravity map (g_0) contains much information of non-interest to ore search. The problem is to separate the effects of the earth (g_E) from the g_0 map to yield the map of interest, the complete Bouguer gravity map (Δg_{CB}). We have:

$$\epsilon_E = \epsilon_L + \epsilon_{FA} + \epsilon_{BS} + \epsilon_T \quad (1)$$

\uparrow Latitude effect \uparrow Free Air effect \uparrow Bouguer Slab effect \uparrow Terrain effect

where

$$\epsilon_{CB} = \epsilon_0 - \epsilon_E \quad (2)$$

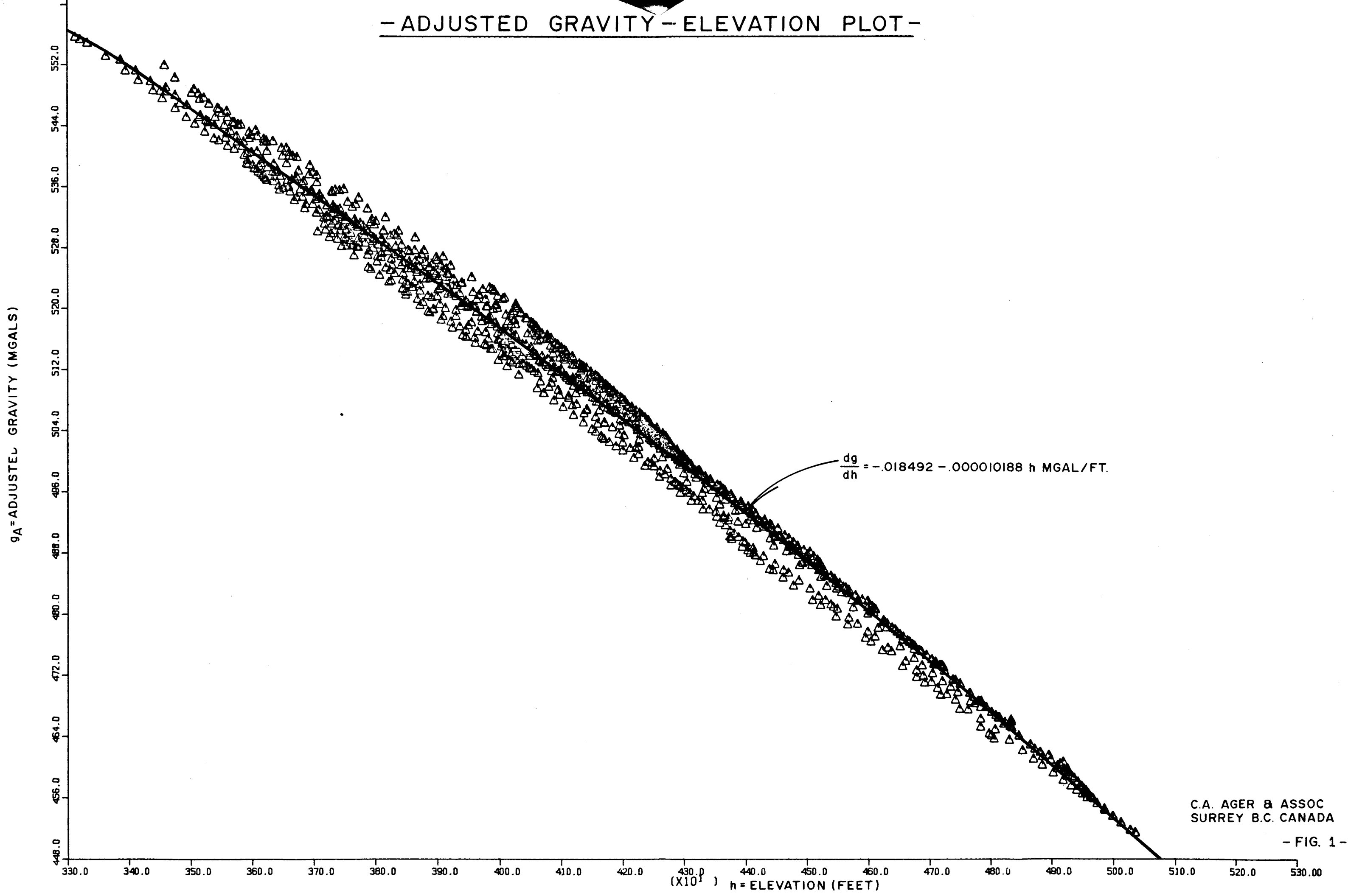
Using standard procedures, the complete Bouguer gravity map was calculated by equation 1 and 2 above, Figure 3. Bouguer density was selected as 2.80 g/cc (Anvil Range phyllites) which corresponds to an elevation factor of 0.0583 mgal/ft. Appendix A lists the results.

NON-LINEAR BOUGUER GRAVITY MAP

After several years experience with gravity data in mountainous terrain, it has become apparent to the author that there is a non-linear component to the elevation effect. Traditionally, the free air and Bouguer slab effects are combined into one effect called the 'elevation effect' for data reduction. This effect is a 'linear' effect in elevation. If we plot the adjusted gravity ($g_A = g_0 + g_T + g_L$) as a function of elevation (h) we can get some insight into the behaviour of gravity v.s. elevation. Figure 1 gives a plot of g_A v.s. h for the Fishhook Creek data. A least mean square fit of a second order polynomial to the data gives the following equation for gravity (g) as a function of h:

$$g = 673.3 - 0.018492h - 0.000005094h^2 \quad (3)$$

- ADJUSTED GRAVITY - ELEVATION PLOT -

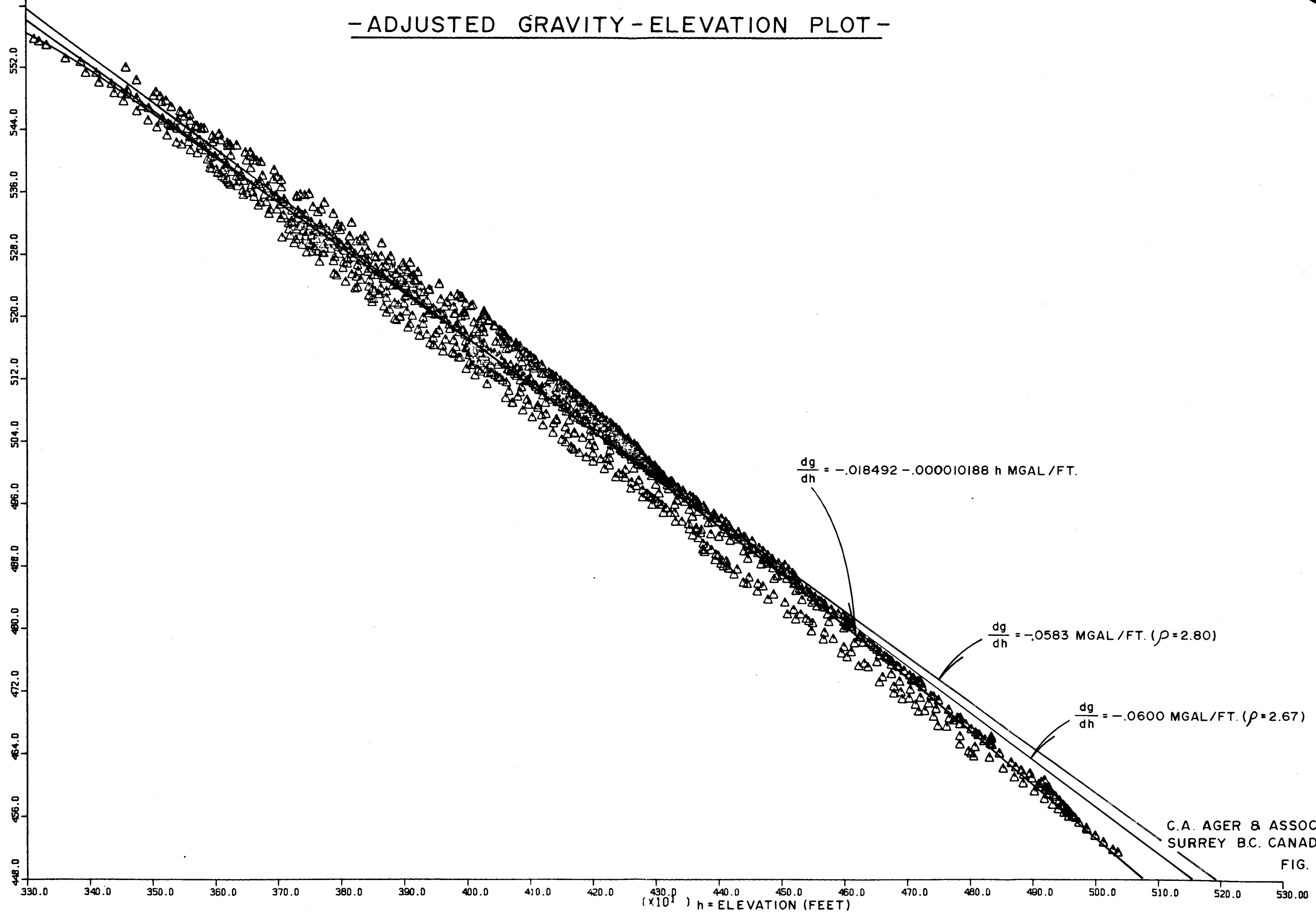


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- FIG. 1 -

- ADJUSTED GRAVITY - ELEVATION PLOT -

9A = ADJUSTED GRAVITY (MGALS)



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FIG. 2

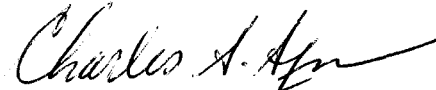
We see from equation 3 and Figure 1 that the gravity field does not behave in a linear way with elevation. This means that if a linear elevation factor is used in gravity reduction, then, even after terrain corrections, there are still correlations of the Bouguer gravity map with topography. This can most clearly be seen in Figure 3 where the gravity low feature on the northern ends of lines 104E-112E corresponds to a topographic high. By examining Figure 2, we see the relationship and consequences of using linear v.s. non-linear elevation factors. Galeski's elevation factor of 0.0600 mgal/ft (density=2.67) and Ager's elevation factor of 0.0583 mgal/ft will each generate terrain related residual anomalies within the map. However, by using the non-linear equation, derived from the data itself, independent of any assumptions about the theoretical basis for gravity reduction, we substantially minimize residual elevation effect anomalies. In fact, the non-linear Bouguer gravity map is already a residual gravity map for the survey area, Figure 4 and Appendix B.

SUMMARY

The maps presented here are the results of the work requested by Amax. They were prepared independently from, and with no intimate knowledge of the results presented by Galeski (1977). It

is the authors opinion that Figure 4, the non-linear Bouguer gravity map, best represents the residual gravity field within the area surveyed. Further comments cannot be made without some knowledge of the geology. After correlating the results presented here with all the other geological and geophysical data more definite comments can be made regarding the economic nature of the gravity data.

Respectfully submitted,



Charles A. Ager, PhD, PEng

Geophysicist

Feb 28, 1978

REFERENCES

Galeski, Bob (1977): Fishhook Creek Surface Elevations
Field Survey Data Sheets

LeBel, Larry (1978): Personal communication

APPENDIX A

FISHOOK CREEK GRAVITY DATA

Elevations in feet; Gravity in mgals

Elevation factor = 0.0583 mgal/ft; Bouguer density = 2.80 g/cc

Terrain radius = 2000 feet; Terrain grid = 100' x 100'

STATION	COORD	ELEVATION	OBSERVED GRAVITY	C. BOUGUER GRAVITY	TERRAIN EFFECT	STN. COUNT
L24	E + 0 N	4081.65	513.59	754.12	0.33	
L24	E + 1 N	4090.69	513.04	754.08	0.29	
L24	E + 2 N	4102.04	512.32	754.03	0.27	
L24	E + 3 N	4105.51	512.16	754.12	0.30	
L24	E + 4 N	4100.88	512.43	754.18	0.34	
L24	E + 5 N	4083.77	513.63	754.42	0.36	
L24	E + 6 N	4077.96	513.94	754.46	0.41	
L24	E + 7 N	4055.22	515.42	754.64	0.43	
L24	E + 8 N	4043.40	516.17	754.73	0.44	
L24	E + 9 N	4034.55	516.68	754.78	0.47	1
L24	E + 10 N	4034.94	516.73	754.93	0.53	1
L24	E + 11 N	4026.83	517.19	754.99	0.58	1
L24	E + 12 N	4006.41	518.43	755.06	0.58	1
L24	E + 13 N	3985.10	519.82	755.29	0.65	1
L24	E + 14 N	3988.82	519.57	755.26	0.64	1
L24	E + 15 N	3992.24	519.29	755.26	0.70	1
L24	E + 16 N	3992.16	519.29	755.39	0.81	1
L24	E + 17 N	4009.24	518.09	755.35	0.97	1
L24	E + 18 N	4028.39	516.67	755.38	1.28	1
L24	E + 19 N	4026.84	516.66	755.52	1.50	2
L24	E + 20 N	4027.45	516.30	755.58	1.87	2
L24	E + 21 N	4018.92	516.59	755.62	2.09	2
L24	E + 22 N	3995.98	517.77	755.71	2.32	2
L32	E + 2975S	3656.78	535.87	754.39	3.70	2
L32	E + 29 S	3673.57	535.29	754.21	3.11	2
L32	E + 28 S	3706.30	533.26	753.76	2.76	2
L32	E + 27 S	3736.40	531.62	753.63	2.49	2
L32	E + 26 S	3768.84	529.91	753.61	2.27	2
L32	E + 25 S	3801.07	527.89	753.30	2.08	2
L32	E + 24 S	3834.70	526.10	753.31	1.90	3
L32	E + 23 S	3864.35	524.39	753.13	1.68	3
L32	E + 22 S	3891.72	522.89	753.02	1.47	3
L32	E + 21 S	3909.90	522.01	753.00	1.25	3
L32	E + 20 S	3915.55	521.95	753.09	1.05	3
L32	E + 19 S	3926.86	521.30	753.02	0.95	3
L32	E + 18 S	3938.83	520.84	753.21	0.88	3
L32	E + 17 S	3957.54	519.64	753.05	0.81	3
L32	E + 16 S	3967.14	519.26	753.19	0.75	3
L32	E + 15 S	3977.70	518.71	753.24	0.73	3
L32	E + 14 S	3996.65	517.62	753.24	0.69	4
L32	E + 13 S	4011.39	516.76	753.25	0.68	4
L32	E + 12 S	4024.36	516.05	753.33	0.69	4
L32	E + 11 S	4052.92	514.19	753.15	0.70	4
L32	E + 10 S	4067.40	513.42	753.21	0.66	4
L32	E + 9 S	4087.45	512.22	753.16	0.63	4
L32	E + 8 S	4105.48	511.12	753.10	0.60	4

L32	E +	7	S	4121.36	510.18	753.07	0.56	47
L32	E +	6	S	4125.01	510.18	753.24	0.50	48
L32	E +	5	S	4133.06	509.70	753.25	0.49	49
L32	E +	4	S	4156.56	508.06	753.01	0.50	50
L32	E +	3	S	4163.96	507.75	753.10	0.46	51
L32	E +	2	S	4183.71	506.43	752.96	0.47	52
L32	E +	1	S	4185.52	506.46	753.04	0.40	53
L32	E +	0		4181.58	506.84	753.15	0.34	54
L32	E +	1	N	4181.82	506.90	753.22	0.31	55
L32	E +	2	N	4177.71	507.18	753.26	0.29	56
L32	E +	3	N	4180.31	507.12	753.39	0.31	57
L32	E +	4	N	4172.63	507.69	753.52	0.31	58
L32	E +	5	N	4162.96	508.41	753.71	0.32	59
L32	E +	6	N	4159.47	508.59	753.76	0.38	60
L32	E +	7	N	4141.85	509.73	753.88	0.36	61
L32	E +	8	N	4119.33	511.23	754.08	0.37	62
L32	E +	9	N	4109.09	511.90	754.16	0.35	63
L32	E +	10	N	4096.14	512.65	754.17	0.35	64
L32	E +	11	N	4094.54	512.76	754.20	0.34	65
L32	E +	12	N	4082.24	513.50	754.26	0.36	66
L32	F +	13	N	4078.16	513.71	754.26	0.37	67
L32	E +	14	N	4070.48	514.07	754.21	0.39	68
L32	F +	15	N	4065.05	514.40	754.27	0.42	69
L32	E +	16	N	4060.97	514.70	754.38	0.45	70
L32	E +	17	N	4058.01	514.86	754.43	0.50	71
L32	E +	18	N	4055.02	515.01	754.48	0.56	72
L32	E +	19	N	4053.98	515.03	754.54	0.64	73
L32	E +	20	N	4058.63	514.63	754.57	0.78	74
L32	E +	21	N	4060.99	514.25	754.57	1.00	75
L32	E +	22	N	4051.96	514.63	754.64	1.21	76
L32	E +	23	N	4045.17	514.69	754.69	1.57	77
L32	E +	24	N	4034.58	514.85	754.74	2.06	78
L32	E +	25	N	3998.39	516.99	754.94	2.21	79
L32	F +	26	N	3956.37	519.41	755.00	2.29	80
L32	E +	27	N	3910.39	522.13	755.04	2.27	81
L32	E +	28	N	3864.84	524.70	754.86	2.16	82
L32	E +	29	N	3816.55	527.46	754.70	2.03	83
L32	E +	30	N	3774.29	530.00	754.77	2.01	84
L32	E +	31	N	3749.69	531.18	754.45	1.92	85
L32	E +	32	N	3695.44	534.22	754.41	1.98	86
L32	E +	33	N	3649.19	536.61	753.97	1.83	87
L32	E +	34	N	3667.18	535.68	753.98	1.69	88
L32	E +	35	N	3661.40	535.94	754.09	1.86	89
L32	E +	36	N	3635.40	537.25	754.05	2.02	90
L32	E +	37	N	3607.31	538.64	753.82	2.02	91
L32	E +	38	N	3559.85	540.94	753.54	2.18	92
L32	E +	39	N	3514.36	543.05	753.23	2.40	93
L32	F +	40	N	3459.23	545.86	753.74 (?)	3.29	94
L32	E +	41	N	3475.82	545.02	753.08	2.49	95
L32	E +	42	N	3503.10	543.47	752.66	2.01	96
L32	E +	43	N	3516.08	542.56	752.57	2.05	97
L32	E +	44	N	3530.65	541.71	752.78	2.25	98
L32	E +	45	N	3547.43	540.66	753.05	2.58	99
L40	E +	44	S	3624.08	535.85	753.42	4.98	100
L40	E +	43	S	3620.10	536.67	753.10	4.06	101
L40	E +	42	S	3598.86	538.45	752.70	3.11	102
L40	E +	41	S	3578.08	540.29	752.76	2.51	103
L40	E +	40	S	3571.93	540.94	752.83	2.27	104
L40	E +	39	S	3551.96	542.26	752.82	2.09	105
L40	E +	38	S	3569.08	541.07	752.67	2.11	106

L40	E + 37	S	3577.54	540.68	752.88	2.19	109
L40	E + 36	S	3596.42	539.56	753.00	2.31	108
L40	E + 35	S	3619.91	538.09	753.04	2.43	107
L40	E + 34	S	3650.00	536.09	752.95	2.57	110
L40	E + 33	S	3693.33	533.44	753.06	2.79	111
L40	E + 32	S	3729.74	531.10	753.02	2.95	112
L40	E + 31	S	3763.19	528.97	752.92	3.01	113
L40	E + 30	S	3813.38	525.70	752.73	3.15	114
L40	E + 29	S	3853.14	523.20	752.52	3.09	115
L40	E + 28	S	3887.73	521.10	752.27	2.91	116
L40	E + 27	S	3893.87	521.19	752.11	2.28	117
L40	E + 26	S	3886.11	522.25	752.16	1.70	118
L40	E + 25	S	3902.15	521.32	751.94	1.47	119
L40	E + 24	S	3898.27	521.91	752.09	1.23	120
L40	E + 23	S	3914.20	521.15	752.14	1.10	121
L40	E + 22	S	3926.28	520.47	752.09	1.01	122
L40	E + 21	S	3913.68	521.49	752.48	1.09	123
L40	E + 20	S	3932.17	520.53	752.54	1.01	124
L40	E + 19	S	3963.64	518.73	752.45	0.88	125
L40	E + 18	S	3979.37	517.88	752.45	0.79	126
L40	E + 17	S	3981.16	517.93	752.59	0.75	127
L40	E + 16	S	3990.02	517.53	752.70	0.74	128
L40	E + 15	S	4014.20	516.00	752.50	0.64	129
L40	E + 14	S	4019.33	515.70	752.52	0.63	130
L40	E + 13	S	4026.04	515.57	752.83	0.67	131
L40	E + 12	S	4046.04	514.43	752.82	0.62	132
L40	E + 11	S	4062.47	513.45	752.78	0.58	133
L40	E + 10	S	4087.26	511.81	752.53	0.51	134
L40	E + 9	S	4098.18	511.31	752.65	0.47	135
L40	E + 8	S	4106.42	511.01	752.84	0.46	136
L40	E + 7	S	4117.93	510.33	752.87	0.48	137
L40	E + 6	S	4131.87	509.52	752.91	0.49	138
L40	E + 5	S	4147.51	508.63	752.95	0.50	139
L40	E + 4	S	4170.35	507.16	752.78	0.46	140
L40	E + 3	S	4188.82	506.08	752.75	0.40	141
L40	E + 2	S	4207.47	504.89	752.61	0.35	142
L40	E + 1	S	4211.49	504.82	752.73	0.28	143
L40	E + 0		4215.12	504.71	752.81	0.25	144
L40	E + 1	N	4227.94	503.87	752.72	0.23	145
L40	E + 2	N	4234.06	503.56	752.79	0.23	146
L40	E + 3	N	4231.57	503.77	752.85	0.21	147
L40	E + 4	N	4231.25	503.82	752.91	0.22	148
L40	E + 5	N	4228.13	504.04	752.99	0.24	149
L40	E + 6	N	4221.99	504.38	753.00	0.26	150
L40	E + 7	N	4204.03	505.66	753.22	0.23	151
L40	E + 8	N	4196.95	506.11	753.29	0.24	152
L40	E + 9	N	4186.42	506.86	753.45	0.24	153
L40	E + 10	N	4176.34	507.48	753.50	0.25	154
L40	E + 11	N	4167.43	508.12	753.65	0.25	155
L40	E + 12	N	4160.82	508.51	753.68	0.26	156
L40	E + 13	N	4156.26	508.81	753.74	0.27	157
L40	E + 14	N	4148.92	509.23	753.77	0.29	158
L40	E + 15	N	4148.32	509.12	753.67	0.32	159
L40	E + 16	N	4135.31	509.88	753.73	0.35	160
L40	E + 17	N	4129.53	510.12	753.70	0.40	161
L40	E + 18	N	4132.68	509.82	753.67	0.46	162
L40	E + 19	N	4138.17	509.25	753.59	0.63	163
L40	E + 20	N	4136.65	509.22	753.73	0.86	164
L40	E + 21	N	4119.94	510.16	753.90	1.05	165
L40	E + 22	N	4096.13	511.54	754.14	1.28	166

L40	E + 23	N	4061.03	513.53	754.28	1.46	167
L40	E + 24	N	4022.70	515.72	754.41	1.62	168
L40	E + 25	N	3974.22	518.42	754.45	1.77	169
L40	E + 26	N	3921.88	521.39	754.47	1.85	170
L40	E + 27	N	3898.56	522.71	754.23	1.63	171
L40	E + 28	N	3899.67	522.69	753.94	1.27	172
L40	E + 29	N	3907.23	522.09	753.66	1.14	173
L40	E + 30	N	3914.63	521.50	753.70	1.32	174
L40	E + 31	N	3905.55	521.83	753.82	1.63	175
L40	E + 32	N	3879.22	523.25	753.99	1.89	176
L40	E + 33	N	3837.79	525.66	754.18	2.06	177
L40	E + 34	N	3787.77	528.48	754.14	2.10	178
L40	E + 35	N	3743.43	530.85	753.92	2.07	179
L40	E + 36	N	3699.74	533.29	753.78	2.02	180
L40	E + 37	N	3660.56	535.33	753.56	2.03	181
L40	E + 38	N	3620.08	537.49	753.45	2.11	182
L40	E + 39	N	3583.49	539.21	753.17	2.22	183
L40	E + 40	N	3544.55	541.02	753.07	2.56	184
L40	E + 41	N	3507.12	542.76	753.38	3.29	185
L40	E + 42	N	3522.76	541.91	753.13	2.97	186
L40	E + 43	N	3560.89	539.91	752.84	2.44	187
L40	E + 44	N	3609.36	537.46	753.13	2.34	188
L40	E + 44.50	N	3624.49	536.65	753.30	2.41	189
L48	F + 31	S	3833.22	525.23	751.90	1.72	190
L48	E + 30	S	3864.80	523.29	751.83	1.73	191
L48	E + 29	S	3902.74	520.87	751.63	1.72	192
L48	E + 28	S	3935.70	519.00	751.59	1.60	193
L48	E + 27	S	3961.58	517.42	751.38	1.45	194
L48	E + 26	S	3984.62	516.24	751.42	1.30	195
L48	F + 25	S	4013.29	514.45	751.26	1.25	196
L48	E + 24	S	4018.55	514.40	751.34	1.06	197
L48	F + 23	S	4025.70	514.09	751.40	0.99	198
L48	E + 22	S	4051.28	512.45	751.31	1.02	199
L48	F + 21	S	4077.94	510.78	751.26	1.08	200
L48	F + 20	S	4086.09	510.54	751.37	0.93	201
L48	E + 19	S	4100.29	509.68	751.28	0.86	202
L48	E + 18	S	4120.02	508.38	751.15	0.85	203
L48	E + 17	S	4118.95	508.73	751.27	0.67	204
L48	E + 16	S	4132.05	507.82	751.11	0.63	205
L48	E + 15	S	4128.47	508.28	751.26	0.51	206
L48	E + 14	S	4127.26	508.40	751.25	0.44	207
L48	E + 13	S	4123.73	508.85	751.49	0.42	208
L48	E + 12	S	4127.77	508.71	751.60	0.41	209
L48	E + 11	S	4131.00	508.61	751.73	0.44	210
L48	E + 10	S	4142.22	508.03	751.84	0.45	211
L48	E + 9	S	4158.26	507.06	751.82	0.45	212
L48	E + 8	S	4174.74	506.12	751.86	0.45	213
L48	E + 7	S	4190.10	505.24	751.88	0.43	214
L48	E + 6	S	4204.70	504.35	751.84	0.41	215
L48	E + 5	S	4219.06	503.56	751.88	0.39	216
L48	E + 4	S	4231.22	502.88	751.89	0.35	217
L48	E + 3	S	4242.64	502.22	751.88	0.32	218
L48	E + 2	S	4248.16	501.98	751.95	0.28	219
L48	E + 1	S	4253.81	501.81	752.09	0.25	220
L48	E + 0		4258.62	501.63	752.18	0.22	221
L48	E + 1	N	4264.34	501.31	752.18	0.19	222
L48	E + 2	N	4269.73	501.03	752.21	0.17	223
L48	E + 3	N	4275.47	500.67	752.21	0.17	224
L48	E + 4	N	4273.45	500.91	752.33	0.16	225
L48	E + 5	N	4270.62	501.18	752.46	0.17	226

L48	E +	6	N	4266.30	501.52	752.58	0.18	227
L48	E +	7	N	4256.06	502.19	752.67	0.18	228
L48	E +	8	N	4241.67	503.14	752.79	0.18	229
L48	E +	9	N	4236.63	503.49	752.88	0.18	230
L48	E +	10	N	4228.16	504.09	753.01	0.20	231
L48	E +	11	N	4214.79	504.88	753.05	0.20	232
L48	E +	12	N	4199.72	505.83	753.16	0.22	233
L48	E +	13	N	4190.85	506.40	753.23	0.22	234
L48	E +	14	N	4184.65	506.82	753.31	0.22	235
L48	E +	15	N	4179.78	507.16	753.38	0.22	236
L48	E +	16	N	4172.46	507.57	753.41	0.25	237
L48	E +	17	N	4167.41	507.78	753.39	0.29	238
L48	E +	18	N	4177.27	507.05	753.26	0.30	239
L48	E +	19	N	4180.62	506.68	753.17	0.36	240
L48	E +	20	N	4177.45	506.75	753.14	0.43	241
L48	E +	21	N	4182.88	506.20	753.05	0.55	242
L48	E +	22	N	4181.50	506.11	753.06	0.71	243
L48	E +	23	N	4170.97	506.69	753.17	0.84	244
L48	E +	24	N	4148.94	507.93	753.23	0.93	245
L48	E +	25	N	4133.76	508.80	753.40	1.09	246
L48	E +	26	N	4111.32	509.92	753.36	1.23	247
L48	E +	27	N	4082.84	511.41	753.32	1.34	248
L48	E +	28	N	4058.57	512.66	753.27	1.44	249
L48	E +	29	N	4025.17	514.58	753.34	1.51	250
L48	E +	30	N	3993.45	516.41	753.39	1.57	251
L48	E +	31	N	3967.91	517.79	753.33	1.60	252
L48	E +	32	N	3940.29	519.28	753.30	1.67	253
L48	E +	33	N	3918.73	520.32	753.22	1.78	254
L48	E +	34	N	3875.11	522.81	753.31	1.91	255
L48	E +	35	N	3831.33	525.28	753.35	2.01	256
L48	E +	36	N	3794.67	527.24	753.18	2.01	257
L48	E +	37	N	3756.09	529.46	753.18	2.02	258
L48	E +	38	N	3731.34	530.80	752.98	1.90	259
L48	E +	39	N	3705.65	532.08	752.74	1.86	260
L48	E +	40	N	3676.11	533.61	752.61	1.91	261
L48	E +	41	N	3656.94	534.50	752.39	1.89	262
L48	E +	42	N	3624.70	535.87	752.14	2.14	263
L48	E +	43	N	3596.43	537.07	752.15	2.58	264
L48	E +	44	N	3571.90	538.19	752.66 (?)	3.37	265
L56	E +	41	S	3695.36	532.89	750.91	1.36	266
L56	E +	40	S	3681.76	534.15	751.20	1.16	267
L56	E +	39	S	3673.11	535.00	751.58	1.17	268
L56	E +	38	S	3684.13	534.48	751.70	1.15	269
L56	E +	37	S	3709.94	532.85	751.53	1.10	270
L56	E +	36	S	3742.98	530.87	751.50	1.10	271
L56	E +	35	S	3766.63	529.48	751.51	1.10	272
L56	E +	34	S	3780.90	528.67	751.50	1.05	273
L56	E +	33	S	3776.49	529.00	751.64	1.10	274
L56	E +	32	S	3811.32	526.81	751.55	1.15	275
L56	E +	31	S	3842.76	524.83	751.51	1.24	276
L56	E +	30	S	3870.54	523.14	751.46	1.24	277
L56	E +	29	S	3901.36	521.31	751.43	1.23	278
L56	E +	28	S	3918.89	520.31	751.35	1.11	279
L56	E +	27	S	3946.00	518.71	751.29	1.06	280
L56	E +	26	S	3956.74	518.17	751.29	0.94	281
L56	E +	25	S	3983.79	516.49	751.19	0.93	282
L56	E +	24	S	3993.64	515.91	751.16	0.88	283
L56	E +	23	S	4012.57	514.74	751.12	0.90	284
L56	E +	22	S	4043.28	512.93	751.15	0.94	285
L56	E +	21	S	4068.69	511.42	751.13	0.92	286

L56	E + 20	S	4083.79	510.64	751.17	0.83	287
L56	E + 19	S	4099.57	509.78	751.18	0.78	288
L56	E + 18	S	4120.09	508.55	751.15	0.76	289
L56	E + 17	S	4135.96	507.65	751.16	0.73	290
L56	E + 16	S	4151.65	506.72	751.13	0.70	291
L56	E + 15	S	4173.16	505.32	751.02	0.71	292
L56	E + 14	S	4188.78	504.44	751.04	0.68	293
L56	E + 13	S	4203.61	503.56	751.01	0.64	294
L56	E + 12	S	4220.35	502.56	750.99	0.63	295
L56	E + 11	S	4235.07	501.70	750.99	0.61	296
L56	E + 10	S	4252.51	500.62	750.95	0.61	297
L56	E + 9	S	4270.19	499.51	750.89	0.61	298
L56	E + 8	S	4288.56	498.40	750.88	0.62	299
L56	E + 7	S	4292.44	498.26	750.83	0.48	300
L56	E + 6	S	4296.49	498.02	750.76	0.39	301
L56	E + 5	S	4299.90	497.83	750.72	0.32	302
L56	E + 4	S	4306.28	497.59	750.84	0.29	303
L56	E + 3	S	4313.34	497.13	750.80	0.28	304
L56	E + 2	S	4311.60	497.33	750.86	0.22	305
L56	E + 1	S	4306.25	497.84	751.02	0.17	306
L56	E + 0	S	4301.43	498.29	751.19	0.15	307
L56	E + 1	N	4294.86	498.85	751.37	0.13	308
L56	E + 2	N	4291.67	499.14	751.48	0.12	309
L56	E + 3	N	4288.27	499.40	751.56	0.12	310
L56	E + 4	N	4283.74	499.74	751.66	0.12	311
L56	E + 5	N	4278.78	500.15	751.80	0.14	312
L56	E + 6	N	4265.64	501.09	752.00	0.14	313
L56	E + 7	N	4242.17	502.14	751.77	0.20	314
L56	E + 8	N	4246.11	502.43	752.21	0.12	315
L56	E + 9	N	4240.92	502.81	752.30	0.11	316
L56	E + 10	N	4233.79	503.36	752.46	0.11	317
L56	E + 11	N	4228.91	503.67	752.51	0.12	318
L56	E + 12	N	4215.09	504.70	752.81	0.17	319
L56	E + 13	N	4213.99	504.77	752.84	0.17	320
L56	E + 14	N	4228.29	503.89	752.77	0.13	321
L56	E + 15	N	4235.22	503.43	752.75	0.15	322
L56	E + 16	N	4245.46	502.69	752.66	0.19	323
L56	E + 17	N	4239.68	503.06	752.71	0.18	324
L56	E + 18	N	4240.45	502.91	752.65	0.21	325
L56	E + 19	N	4241.80	502.69	752.57	0.25	326
L56	E + 20	N	4240.31	502.75	752.60	0.30	327
L56	E + 21	N	4235.74	502.93	752.58	0.34	328
L56	E + 22	N	4232.51	503.05	752.60	0.41	329
L56	E + 23	N	4241.00	502.33	752.54	0.55	330
L56	E + 24	N	4234.96	502.56	752.56	0.69	331
L56	E + 25	N	4221.99	503.16	752.56	0.82	332
L56	E + 26	N	4197.32	504.53	752.63	0.94	333
L56	E + 27	N	4171.34	506.10	752.85	1.08	334
L56	E + 28	N	4151.48	507.12	752.87	1.24	335
L56	E + 29	N	4124.80	508.53	752.92	1.41	336
L56	E + 30	N	4090.60	510.46	753.09	1.62	337
L56	E + 31	N	4056.54	512.24	753.11	1.82	338
L56	E + 32	N	4016.71	514.59	753.37	2.04	339
L56	E + 33	N	3980.61	516.63	753.46	2.18	340
L56	E + 34	N	3943.75	518.58	753.43	2.32	341
L56	E + 35	N	3910.01	520.39	753.38	2.42	342
L56	E + 36	N	3886.36	521.67	753.26	2.38	343
L56	E + 37	N	3884.98	521.50	752.76	2.11	344
L56	E + 38	N	3881.17	521.65	752.57	1.98	345
L56	E + 39	N	3871.58	521.99	752.39	2.00	346

L56	E + 40	N	3856.20	522.88	752.50	2.09	34
L56	E + 41	N	3842.52	523.62	752.58	2.20	34
L56	E + 42	N	3825.22	524.68	752.78	2.33	34
L56	E + 43	N	3813.85	525.26	752.77	2.38	35
L56	E + 44	N	3799.37	525.97	752.70	2.44	35
L56	E + 44.21	N	3793.45	526.26	752.66	2.44	35
L64	E + 42	S	3766.09	527.06	751.27	3.51	35
L64	E + 41	S	3798.84	525.11	750.94	3.20	35
L64	E + 40	S	3796.91	525.98	750.92	2.40	35
L64	E + 39	S	3781.57	527.58	750.91	1.67	35
L64	E + 38	S	3767.71	528.81	750.97	1.29	35
L64	E + 37	S	3751.70	529.90	750.89	1.03	35
L64	E + 36	S	3710.31	532.72	751.47	1.19	35
L64	F + 35	S	3732.11	531.47	751.24	0.92	36
L64	F + 34	S	3773.03	528.90	751.08	0.93	36
L64	F + 33	S	3790.08	527.98	751.18	0.93	36
L64	E + 32	S	3770.41	529.25	751.29	0.91	36
L64	E + 31	S	3810.09	526.92	751.31	0.92	36
L64	E + 30	S	3808.68	526.81	751.28	1.07	36
L64	E + 29	S	3837.26	524.94	751.22	1.19	36
L64	F + 28	S	3878.13	522.36	751.16	1.31	36
L64	E + 27	S	3915.03	520.22	751.23	1.35	36
L64	E + 26	S	3950.47	518.08	751.14	1.32	36
L64	E + 25	S	3982.39	516.18	751.04	1.24	37
L64	E + 24	S	4005.52	514.86	750.96	1.12	37
L64	E + 23	S	4019.96	514.11	750.91	0.95	37
L64	E + 22	S	4037.00	513.16	750.88	0.86	37
L64	E + 21	S	4048.33	512.53	750.83	0.77	37
L64	E + 20	S	4060.47	511.86	750.84	0.72	37
L64	E + 19	S	4081.55	510.54	750.77	0.72	37
L64	E + 18	S	4095.53	509.78	750.81	0.69	37
L64	E + 17	S	4105.04	509.30	750.86	0.64	37
L64	E + 16	S	4120.70	508.35	750.83	0.63	37
L64	E + 15	S	4132.71	507.62	750.82	0.63	38
L64	E + 14	S	4144.98	506.91	750.86	0.64	38
L64	E + 13	S	4168.92	505.38	750.78	0.67	38
L64	E + 12	S	4191.23	504.00	750.73	0.69	38
L64	F + 11	S	4210.17	502.84	750.68	0.68	38
L64	E + 10	S	4225.00	502.01	750.69	0.64	38
L64	E + 9	S	4244.50	500.82	750.65	0.63	38
L64	E + 8	S	4262.07	499.78	750.63	0.60	38
L64	E + 7	S	4277.10	498.90	750.60	0.55	38
L64	E + 6	S	4290.97	498.06	750.54	0.51	38
L64	E + 5	S	4296.68	497.75	750.48	0.41	39
L64	E + 4	S	4298.34	497.75	750.49	0.32	39
L64	E + 3	S	4305.28	497.40	750.53	0.28	39
L64	E + 2	S	4308.30	497.32	750.59	0.23	39
L64	E + 1	S	4309.74	497.29	750.63	0.19	39
L64	F + 0		4310.84	497.34	750.73	0.16	39
L64	F + 1	N	4314.32	497.11	750.72	0.16	39
L64	F + 2	N	4313.09	497.30	750.84	0.14	39
L64	E + 3	N	4304.56	497.98	751.00	0.10	39
L64	E + 4	N	4305.14	497.93	751.00	0.09	39
L64	E + 5	N	4300.30	498.31	751.11	0.08	40
L64	E + 6	N	4293.40	498.82	751.23	0.08	40
L64	E + 7	N	4288.26	499.18	751.31	0.08	40
L64	E + 8	N	4283.12	499.51	751.37	0.09	40
L64	E + 9	N	4270.84	500.37	751.53	0.10	40
L64	E + 10	N	4269.75	500.47	751.59	0.10	40
L64	E + 11	N	4256.63	501.32	751.72	0.12	40

L64	E + 12	N	4246.18	502.08	751.97	0.20	407
L64	E + 13	N	4264.16	500.86	751.73	0.11	408
L64	E + 14	N	4265.97	500.82	751.82	0.12	409
L64	E + 15	N	4269.69	500.57	751.81	0.13	410
L64	E + 16	N	4275.99	500.16	751.80	0.14	411
L64	E + 17	N	4280.36	499.90	751.83	0.16	412
L64	E + 18	N	4280.00	499.90	751.85	0.18	413
L64	E + 19	N	4280.21	499.88	751.88	0.20	414
L64	E + 20	N	4270.30	500.55	752.03	0.24	415
L64	E + 21	N	4266.61	500.74	752.06	0.28	416
L64	E + 22	N	4272.30	500.27	751.96	0.30	417
L64	E + 23	N	4279.22	499.71	751.87	0.35	418
L64	E + 24	N	4277.79	499.75	751.90	0.40	419
L64	E + 25	N	4268.09	500.40	752.06	0.46	420
L64	E + 26	N	4267.79	500.28	752.01	0.53	421
L64	E + 27	N	4251.40	501.29	752.17	0.61	422
L64	E + 28	N	4243.41	501.62	752.13	0.69	423
L64	E + 29	N	4238.29	501.74	752.02	0.76	424
L64	E + 30	N	4247.74	500.95	751.87	0.82	425
L64	E + 31	N	4244.26	501.04	751.88	0.93	426
L64	E + 32	N	4231.41	501.62	751.84	1.03	427
L64	E + 33	N	4207.06	503.02	752.02	1.22	428
L64	E + 34	N	4201.35	503.09	751.90	1.33	429
L64	E + 35	N	4217.10	501.91	751.66	1.34	430
L64	E + 36	N	4221.85	501.40	751.54	1.43	431
L64	E + 37	N	4233.30	500.55	751.48	1.53	432
L64	E + 38	N	4247.29	499.50	751.42	1.70	433
L64	E + 39	N	4252.34	498.96	751.42	1.92	434
L64	E + 40	N	4227.17	500.49	751.58	2.00	435
L64	E + 41	N	4201.01	502.10	751.81	2.14	436
L64	E + 42	N	4181.67	503.23	751.96	2.26	437
L64	E + 43	N	4161.75	504.54	752.23	2.36	438
L64	E + 44	N	4141.81	505.78	752.43	2.47	439
L72	E + 41	S	3736.29	529.46	751.08	2.71	440
L72	E + 40	S	3742.20	529.39	750.77	2.11	441
L72	E + 39	S	3708.26	532.19	750.98	1.49	442
L72	E + 38	S	3696.79	533.26	751.20	1.28	443
L72	E + 37	S	3699.27	533.33	751.16	1.01	444
L72	E + 36	S	3715.24	532.48	751.14	0.89	445
L72	E + 35	S	3734.87	531.24	751.00	0.84	446
L72	E + 34	S	3733.55	531.50	751.14	0.77	447
L72	E + 33	S	3738.72	531.13	751.10	0.78	448
L72	E + 32	S	3753.21	530.20	751.08	0.82	449
L72	E + 31	S	3771.01	529.13	751.14	0.90	450
L72	E + 30	S	3786.54	528.22	751.29	1.03	451
L72	E + 29	S	3815.45	526.36	751.23	1.13	452
L72	E + 28	S	3854.87	523.88	751.15	1.20	453
L72	E + 27	S	3884.88	522.02	751.05	1.20	454
L72	E + 26	S	3907.17	520.60	750.89	1.14	455
L72	E + 25	S	3929.58	519.32	750.89	1.09	456
L72	E + 24	S	3963.28	517.27	750.78	1.05	457
L72	E + 23	S	3981.64	516.24	750.75	0.95	458
L72	E + 22	S	3995.90	515.42	750.74	0.91	459
L72	E + 21	S	4009.20	514.68	750.70	0.82	460
L72	E + 20	S	4020.37	514.05	750.67	0.76	461
L72	E + 19	S	4032.91	513.33	750.67	0.72	462
L72	E + 18	S	4048.41	512.38	750.62	0.70	463
L72	E + 17	S	4059.91	511.75	750.64	0.66	464
L72	E + 16	S	4073.40	510.98	750.64	0.63	465
L72	E + 15	S	4086.76	510.27	750.69	0.60	466

p 16

L72	E +	14	S	4098.21	509.64	750.71	0.56	46
L72	E +	13	S	4108.60	509.13	750.79	0.53	46
L72	E +	12	S	4120.01	508.53	750.85	0.51	46
L72	E +	11	S	4130.28	508.00	750.92	0.49	47
L72	E +	10	S	4137.30	507.70	751.04	0.48	47
L72	E +	9	S	4145.26	507.29	751.13	0.50	47
L72	E +	8	S	4157.43	506.59	751.17	0.51	47
L72	E +	7	S	4174.57	505.56	751.16	0.51	47
L72	E +	6	S	4189.76	504.70	751.17	0.48	47
L72	E +	5	S	4206.60	503.75	751.21	0.47	47
L72	E +	4	S	4222.72	502.81	751.20	0.44	47
L72	E +	3	S	4235.56	502.05	751.16	0.39	47
L72	E +	2	S	4250.18	501.20	751.12	0.33	47
L72	E +	1	S	4265.63	500.24	751.02	0.27	48
L72	E +	0		4271.67	500.00	751.08	0.20	48
L72	E +	1	N	4279.42	499.55	751.06	0.16	48
L72	E +	2	N	4280.54	499.55	751.11	0.13	48
L72	E +	3	N	4283.40	499.40	751.13	0.11	48

L72	E +	4	N	4279.56			0.11	48
L72	E +	5	N	4284.27	499.47	751.29	0.11	48
L72	E +	6	N	4294.87	498.74	751.20	0.11	48
L72	E +	7	N	4302.24	498.23	751.13	0.11	48
L72	E +	8	N	4310.34	497.74	751.14	0.12	48
L72	E +	9	N	4308.01	497.92	751.20	0.12	49
L72	E +	10	N	4312.28	497.60	751.16	0.12	49
L72	E +	11	N	4322.36	496.83	751.00	0.13	49
L72	F +	12	N	4323.56	496.79	751.06	0.14	49
L72	E +	13	N	4326.90	496.55	751.04	0.15	49
L72	E +	14	N	4325.14	496.74	751.18	0.18	49
L72	E +	15	N	4335.42	495.98	751.05	0.20	49
L72	E +	16	N	4342.77	495.49	751.03	0.22	49
L72	E +	17	N	4354.36	494.73	750.99	0.24	49
L72	E +	18	N	4366.56	493.89	750.91	0.27	49
L72	E +	19	N	4363.82	494.13	750.99	0.27	50
L72	E +	20	N	4359.23	494.46	751.12	0.31	50
L72	E +	21	N	4376.03	493.28	750.96	0.34	50
L72	E +	22	N	4393.70	492.06	750.83	0.38	50
L72	E +	23	N	4392.19	492.23	750.96	0.41	50
L72	E +	24	N	4403.63	491.52	750.96	0.44	50
L72	F +	25	N	4416.31	490.64	750.88	0.47	50
L72	E +	26	N	4411.38	491.00	751.02	0.52	50
L72	E +	27	N	4431.20	489.60	750.81	0.55	50
L72	E +	28	N	4441.60	488.90	750.79	0.59	50
L72	E +	29	N	4440.43	488.99	750.85	0.62	51
L72	E +	30	N	4453.09	488.36	751.03	0.67	51
L72	E +	31	N	4464.01	487.36	750.74	0.72	51
L72	E +	32	N	4471.11	486.86	750.74	0.79	51
L72	E +	33	N	4478.22	486.29	750.68	0.86	51

L72	E + 34	N	4484.76	485.75	750.62	0.94	519
L72	E + 35	N	4494.61	485.02	750.58	1.04	518
L72	E + 36	N	4501.00	484.60	750.44	0.94	517
L72	E + 37	N	4509.88	483.90	750.34	1.00	516
L72	E + 38	N	4515.80	483.49	750.36	1.07	515
L72	F + 39	N	4520.60	483.17	750.42	1.14	520
L72	E + 40	N	4522.44	483.02	750.47	1.21	521
L72	F + 41	N	4520.55	483.13	750.55	1.28	522
L72	E + 42	N	4518.31	483.23	750.62	1.35	523
L72	E + 43	N	4516.84	483.24	750.65	1.44	524
L72	F + 43 ⁸²	N	4511.37	483.61	750.81	1.54	525
L72	F + 45	N	4505.34	483.98	750.97	1.66	526
L80	E + 44	S	3540.79	542.23	751.67	2.04	527
L80	E + 43	S	3555.95	541.47	751.46	1.71	528
L80	E + 42	S	3565.84	541.01	751.29	1.40	529
L80	E + 41	S	3575.63	540.46	751.17	1.23	530
L80	F + 40	S	3587.37	539.79	751.15	1.19	531
L80	F + 39	S	3609.10	538.47	751.14	1.21	532
L80	E + 38	S	3636.30	536.83	751.15	1.25	533
L80	E + 37	S	3669.61	534.75	751.09	1.31	534
L80	E + 36	S	3696.31	533.19	751.07	1.27	535
L80	E + 35	S	3708.92	532.57	751.04	1.11	536
L80	E + 34	S	3730.56	531.23	750.91	1.04	537
L80	E + 33	S	3740.33	530.72	750.84	0.90	538
L80	F + 32	S	3747.92	530.18	750.64	0.77	539
L80	E + 31	S	3763.56	529.24	750.62	0.76	540
L80	E + 30	S	3760.88	529.42	750.54	0.65	541
L80	E + 29	S	3751.75	529.96	750.53	0.61	542
L80	E + 28	S	3742.99	530.55	750.77	0.75	543
L80	E + 27	S	3760.14	529.47	750.75	0.79	544
L80	E + 26	S	3782.57	528.20	750.85	0.83	545
L80	E + 25	S	3802.37	527.03	750.90	0.89	546
L80	F + 24	S	3821.75	525.93	751.00	0.94	547
L80	E + 23	S	3842.06	524.72	751.05	1.00	548
L80	E + 22	S	3864.29	523.30	751.01	1.06	549
L80	E + 21	S	3889.69	521.78	751.04	1.11	550
L80	E + 20	S	3921.72	519.82	750.99	1.14	551
L80	E + 19	S	3953.56	517.94	750.99	1.14	552
L80	E + 18	S	3981.69	516.23	750.89	1.09	553
L80	E + 17	S	4008.64	514.66	750.84	1.02	554
L80	F + 16	S	4024.88	513.82	750.84	0.90	555
L80	E + 15	S	4040.93	512.93	750.82	0.81	556
L80	E + 14	S	4053.94	512.25	750.86	0.75	557
L80	E + 13	S	4072.91	511.14	750.83	0.72	558
L80	E + 12	S	4090.46	510.15	750.85	0.68	559
L80	E + 11	S	4108.22	509.07	750.80	0.65	560
L80	E + 10	S	4118.33	508.54	750.84	0.61	561
L80	E + 9	S	4126.87	508.12	750.93	0.61	562
L80	E + 8	S	4141.27	507.31	751.03	0.66	563
L80	E + 7	S	4164.08	505.91	751.03	0.72	564
L80	E + 6	S	4187.49	504.39	750.95	0.77	565
L80	E + 5	S	4223.44	502.07	750.78	0.81	566
L80	E + 4	S	4248.95	500.56	750.76	0.79	567
L80	E + 3	S	4258.52	500.08	750.70	0.63	568
L80	E + 2	S	4268.16	499.62	750.70	0.52	569
L80	E + 1	S	4285.68	498.52	750.58	0.46	570
L80	E + 0		4298.42	497.81	750.58	0.40	571
L80	E + 1	N	4303.73	497.58	750.61	0.34	572
L80	E + 2	N	4313.13	496.93	750.57	0.32	573
L80	E + 3	N	4308.65	497.34	750.61	0.26	574

L80	E +	4	N	4300.43			0.22	579
L80	E +	5	N	4309.38	497.45	750.76	0.21	579
L80	E +	6	N	4315.28	497.08	750.76	0.22	577
L80	E +	7	N	4327.41	496.30	750.72	0.24	579
L80	E +	8	N	4337.40	495.65	750.68	0.25	579
L80	E +	9	N	4344.97	495.21	750.70	0.25	580
L80	E +	10	N	4358.65	494.29	750.60	0.26	581
L80	E +	11	N	4365.53	493.90	750.63	0.25	582
L80	E +	12	N	4366.07	493.94	750.71	0.24	582
L80	E +	13	N	4367.17	493.83	750.70	0.26	584
L80	E +	14	N	4377.51	493.12	750.63	0.29	585
L80	E +	15	N	4391.86	492.08	750.47	0.31	586
L80	E +	16	N	4410.05	490.83	750.33	0.33	587
L80	E +	17	N	4407.98	490.96	750.34	0.32	589
L80	E +	18	N	4423.89	489.89	750.22	0.33	589
L80	E +	19	N	4419.49	490.19	750.28	0.32	590
L80	E +	20	N	4427.27	489.72	750.31	0.34	591
L80	E +	21	N	4433.93	489.28	750.32	0.38	592
L80	E +	22	N	4440.06	488.88	750.35	0.44	592
L80	E +	23	N	4457.29	487.68	750.22	0.48	594
L80	E +	24	N	4476.12	486.39	750.07	0.51	595
L80	E +	25	N	4487.36	485.73	750.10	0.53	596
L80	E +	26	N	4499.65	484.89	750.01	0.54	597
L80	E +	27	N	4517.62	483.69	749.89	0.56	598
L80	E +	28	N	4521.46	483.50	749.92	0.53	599
L80	E +	29	N	4528.05	483.07	749.89	0.52	600
L80	E +	30	N	4538.57	482.29	749.74	0.53	601
L80	E +	31	N	4538.77	482.32	749.80	0.53	602
L80	E +	32	N	4544.65	481.88	749.73	0.54	602
L80	E +	33	N	4552.93	481.33	749.70	0.56	604
L80	E +	34	N	4559.13	480.84	749.61	0.57	605
L80	E +	35	N	4562.70	480.67	749.69	0.60	606
L80	E +	36	N	4567.99	480.30	749.67	0.63	607
L80	E +	37	N	4578.89	479.58	749.64	0.67	608
L80	E +	38	N	4590.50	478.89	749.70	0.71	609
L80	E +	39	N	4600.92	478.16	749.65	0.77	610
L80	E +	40	N	4608.52	477.68	749.67	0.81	611
L80	E +	41	N	4610.13	477.55	749.70	0.86	612
L80	E +	42	N	4611.73	477.39	749.70	0.91	613
L80	E +	43	N	4612.16	477.28	749.72	0.99	614
L80	E +	44	N	4605.66	477.64	749.80	1.07	615
L80	E +	45	N	4598.53	478.13	750.00	1.18	616
L88	E +	45	S	3452.07	547.46	751.05	1.46	617
L88	E +	44	S	3461.35	546.93	750.93	1.31	618
L88	E +	43	S	3476.25	546.03	750.77	1.16	619
L88	E +	42	S	3494.88	544.85	750.60	1.06	620
L88	E +	41	S	3516.92	543.53	750.51	0.99	621
L88	E +	40	S	3526.49	542.97	750.42	0.89	622
L88	E +	39	S	3529.05	542.87	750.41	0.81	623
L88	E +	38	S	3530.87	542.67	750.34	0.81	624
L88	E +	37	S	3540.32	542.32	750.57	0.84	625
L88	E +	36	S	3559.64	541.24	750.63	0.83	626
L88	E +	35	S	3576.81	540.13	750.54	0.83	627
L88	E +	34	S	3584.92	539.55	750.48	0.86	628
L88	E +	33	S	3599.98	538.63	750.51	0.90	629
L88	E +	32	S	3618.09	537.61	750.61	0.95	630
L88	E +	31	S	3642.46	536.21	750.66	0.96	631
L88	E +	30	S	3664.98	534.92	750.71	0.97	632
L88	E +	29	S	3689.52	533.40	750.63	0.95	633
L88	E +	28	S	3721.73	531.55	750.66	0.94	634

L88	E + 27	S	3732.63	531.08	750.80	0.89	639
L88	E + 26	S	3745.70	530.28	750.80	0.92	638
L88	E + 25	S	3771.03	528.72	750.78	0.97	637
L88	E + 24	S	3798.28	527.06	750.76	1.00	636
L88	E + 23	S	3831.61	524.99	750.67	1.01	635
L88	E + 22	S	3857.68	523.53	750.72	0.98	640
L88	E + 21	S	3866.98	523.12	750.76	0.88	641
L88	E + 20	S	3887.70	521.99	750.83	0.85	642
L88	E + 19	S	3905.98	520.92	750.85	0.85	643
L88	E + 18	S	3923.38	519.85	750.81	0.85	644
L88	E + 17	S	3942.65	518.75	750.87	0.87	645
L88	E + 16	S	3963.89	517.48	750.88	0.89	646
L88	E + 15	S	3980.73	516.48	750.89	0.91	647
L88	E + 14	S	4006.70	514.88	750.85	0.94	648
L88	E + 13	S	4031.07	513.45	750.88	0.95	649
L88	E + 12	S	4058.41	511.76	750.79	0.94	650
L88	E + 11	S	4076.16	510.71	750.75	0.89	651
L88	E + 10	S	4095.82	509.50	750.66	0.85	652
L88	E + 9	S	4114.08	508.36	750.57	0.83	653
L88	E + 8	S	4133.85	507.10	750.46	0.80	654
L88	E + 7	S	4150.86	506.15	750.49	0.77	655
L88	E + 6	S	4160.69	505.65	750.52	0.70	656
L88	E + 5	S	4174.68	504.81	750.50	0.69	657
L88	E + 4	S	4179.53	504.58	750.52	0.65	658
L88	E + 3	S	4183.73	504.40	750.62	0.67	659
L88	E + 2	S	4202.62	503.17	750.54	0.69	660
L88	E + 1	S	4224.34	501.77	750.46	0.73	661
L88	E + 0		4242.86	500.67	750.46	0.73	662
L88	E + 1	N	4252.27	500.11	750.43	0.70	663
L88	E + 2	N	4246.36	500.54	750.43	0.59	664
L88	E + 3	N	4250.41	500.41	750.54	0.57	665
L88	E + 4	N	4266.20	499.42	750.49	0.58	666
L88	E + 5	N	4278.17	498.67	750.48	0.59	667
L88	E + 6	N	4289.88	498.03	750.55	0.60	668
L88	E + 7	N	4311.87	496.67	750.50	0.61	669
L88	E + 8	N	4322.84	496.01	750.47	0.60	670
L88	E + 9	N	4335.41	495.24	750.45	0.59	671
L88	E + 10	N	4350.50	494.35	750.47	0.59	672
L88	E + 11	N	4368.63	493.17	750.38	0.61	673
L88	E + 12	N	4382.78	492.34	750.40	0.62	674
L88	E + 13	N	4400.09	491.27	750.37	0.63	675
L88	E + 14	N	4421.18	489.94	750.29	0.64	676
L88	E + 15	N	4444.58	488.45	750.19	0.64	677
L88	E + 16	N	4454.05	487.81	750.07	0.59	678
L88	E + 17	N	4462.40	487.31	750.02	0.54	679
L88	E + 18	N	4471.29	486.68	749.90	0.51	680
L88	E + 19	N	4479.26	486.16	749.86	0.52	681
L88	E + 20	N	4482.45	485.89	749.85	0.57	682
L88	E + 21	N	4499.54	484.78	749.82	0.62	683
L88	E + 22	N	4521.62	483.23	749.62	0.68	684
L88	E + 23	N	4541.77	481.95	749.57	0.71	685
L88	E + 24	N	4564.36	480.39	749.37	0.73	686
L88	E + 25	N	4583.01	479.20	749.27	0.71	687
L88	E + 26	N	4598.68	478.23	749.19	0.67	688
L88	E + 27	N	4609.33	477.61	749.17	0.63	689
L88	E + 28	N	4624.54	476.54	748.98	0.61	690
L88	E + 29	N	4630.57	476.18	748.94	0.56	691
L88	E + 30	N	4639.41	475.61	748.89	0.54	692
L88	E + 31	N	4643.74	475.35	748.89	0.53	693
L88	E + 32	N	4657.13	474.38	748.71	0.53	694

L88	E + 33	N	4664.36	473.90	748.67	0.52	695
L88	F + 34	N	4667.38	473.73	748.67	0.51	696
L88	E + 35	N	4672.25	473.40	748.65	0.51	697
L88	E + 36	N	4676.30	473.11	748.63	0.52	698
L88	E + 37	N	4684.43	472.56	748.59	0.53	699
L88	E + 38	N	4695.15	471.88	748.57	0.55	700
L88	E + 39	N	4703.99	471.28	748.52	0.57	701
L88	E + 40	N	4710.18	470.92	748.55	0.59	702
L88	E + 41	N	4717.48	470.44	748.55	0.62	703
L88	E + 42	N	4722.88	470.10	748.59	0.67	704
L88	E + 43	N	4722.44	470.11	748.64	0.72	705
L88	E + 44	N	4721.23	470.08	748.63	0.78	706
L88	E + 45	N	4720.34	470.05	748.67	0.89	707
L96	E + 45	S	3348.38			1.34	708
L96	E + 44	S	3386.78	550.69	750.28	1.33	709
L96	E + 43	S	3411.90	549.23	750.29	1.32	710
L96	E + 42	S	3436.10	547.80	750.26	1.28	711
L96	E + 41	S	3459.52	546.47	750.29	1.26	712
L96	E + 40	S	3483.93	544.94	750.20	1.25	713
L96	E + 39	S	3515.26	543.03	750.13	1.25	714
L96	E + 38	S	3558.28	540.30	749.93	1.24	715
L96	E + 37	S	3592.85	538.28	749.95	1.25	716
L96	E + 36	S	3614.69	537.10	749.96	1.15	717
L96	E + 35	S	3625.77	536.62	750.00	1.00	718
L96	E + 34	S	3634.48	536.24	749.99	0.84	719
L96	E + 33	S	3638.35	536.24	750.12	0.74	720
L96	E + 32	S	3646.17	535.80	750.14	0.72	721
L96	E + 31	S	3658.38	535.12	750.24	0.77	722
L96	E + 30	S	3679.33	533.85	750.30	0.86	723
L96	F + 29	S	3702.97	532.46	750.40	0.95	724
L96	E + 28	S	3733.68	530.59	750.41	1.03	725
L96	E + 27	S	3761.31	528.87	750.37	1.07	726
L96	E + 26	S	3783.28	527.60	750.38	1.05	727
L96	E + 25	S	3796.12	526.93	750.37	0.95	728
L96	E + 24	S	3804.59	526.51	750.37	0.86	729
L96	E + 23	S	3819.66	525.66	750.40	0.84	730
L96	E + 22	S	3843.67	524.20	750.38	0.87	731
L96	E + 21	S	3857.82	523.36	750.38	0.86	732
L96	E + 20	S	3866.99	522.86	750.41	0.84	733
L96	E + 19	S	3881.55	521.96	750.39	0.85	734
L96	E + 18	S	3903.73	520.60	750.39	0.90	735
L96	E + 17	S	3916.86	519.83	750.41	0.91	736
L96	E + 16	S	3938.81	518.55	750.47	0.95	737
L96	E + 15	S	3948.06	518.04	750.53	0.96	738
L96	E + 14	S	3970.78	516.65	750.53	1.01	739
L96	E + 13	S	3987.39	515.66	750.56	1.04	740
L96	E + 12	S	4003.11	514.65	750.46	1.03	741
L96	E + 11	S	4021.12	513.57	750.45	1.03	742
L96	E + 10	S	4030.85	512.95	750.37	0.97	743
L96	E + 9	S	4040.31	512.40	750.35	0.93	744
L96	E + 8	S	4047.23	512.00	750.33	0.89	745
L96	E + 7	S	4063.85	510.98	750.30	0.89	746
L96	F + 6	S	4068.57	510.72	750.29	0.85	747
L96	E + 5	S	4068.92	510.74	750.29	0.79	748
L96	E + 4	S	4064.54	510.96	750.24	0.75	749
L96	E + 3	S	4067.94	510.77	750.28	0.76	750
L96	E + 2	S	4078.02	510.07	750.22	0.80	751
L96	F + 1	S	4075.25	510.23	750.30	0.87	752
L96	E + 0		4065.80	510.75	750.45	1.03	753
L96	E + 1	N	4079.48	509.88	750.56	1.19	754

L96	E +	2	N	4109.25	508.10	750.63	1.28	750
L96	E +	3	N	4128.88	506.90	750.70	1.39	750
L96	E +	4	N	4155.05	505.20	750.66	1.50	750
L96	E +	5	N	4188.17	503.17	750.66	1.58	750
L96	E +	6	N	4233.13	500.39	750.53	1.59	750
L96	E +	7	N	4270.26	498.21	750.49	1.55	760
L96	E +	8	N	4291.14	497.08	750.43	1.39	761
L96	E +	9	N	4318.39	495.38	750.26	1.31	762
L96	E +	10	N	4337.04	494.29	750.17	1.22	762
L96	E +	11	N	4357.57	493.11	750.15	1.15	764
L96	E +	12	N	4382.14	491.66	750.12	1.12	765
L96	E +	13	N	4409.12	489.91	749.95	1.11	766
L96	E +	14	N	4429.87	488.64	749.87	1.07	767
L96	E +	15	N	4449.76	487.42	749.79	1.03	767
L96	E +	16	N	4472.06	486.07	749.72	1.00	769
L96	E +	17	N	4486.36	485.06	749.51	0.94	770
L96	E +	18	N	4507.92	483.72	749.41	0.91	771
L96	E +	19	N	4518.75	483.08	749.38	0.87	772
L96	E +	20	N	4530.68	482.30	749.31	0.87	772
L96	E +	21	N	4547.09	481.31	749.31	0.89	774
L96	E +	22	N	4567.80	479.92	749.18	0.92	775
L96	E +	23	N	4583.21	479.01	749.22	0.95	776
L96	E +	24	N	4603.22	477.64	749.06	0.97	777
L96	E +	25	N	4626.38	476.02	748.82	0.99	777
L96	E +	26	N	4647.02	474.74	748.76	0.98	777
L96	E +	27	N	4667.85	473.38	748.62	0.97	780
L96	E +	28	N	4686.87	472.18	748.53	0.95	780
L96	E +	29	N	4707.46	470.70	748.25	0.93	780
L96	E +	30	N	4724.01	469.67	748.17	0.90	780
L96	E +	31	N	4742.27	468.43	747.98	0.86	780
L96	E +	32	N	4766.10	466.79	747.71	0.83	780
L96	E +	33	N	4782.58	465.68	747.53	0.77	780
L96	E +	34	N	4792.89	465.01	747.41	0.70	780
L96	E +	35	N	4802.12	464.48	747.38	0.65	780
L96	E +	36	N	4808.79	464.07	747.34	0.61	780
L96	E +	37	N	4815.04	463.73	747.36	0.60	790
L96	E +	38	N	4823.91	463.16	747.33	0.60	790
L96	E +	39	N	4831.99	462.59	747.27	0.62	790
L96	E +	40	N	4834.85	462.38	747.26	0.64	790
L96	E +	41	N	4832.57	462.57	747.35	0.65	790
L96	E +	42	N	4830.96	462.75	747.50	0.70	790
L96	F +	43	N	4831.82	462.84	747.77	0.80	790
L96	E +	44	N	4833.71	462.68	747.95	1.02	790
L96	E +	4463	N	4834.28	462.65	748.28	1.33	790
L104	E +	44	S	3313.38	553.74	749.02	1.36	790
L104	E +	43	S	3320.57	553.30	749.11	1.45	800
L104	E +	42	S	3333.12	552.63	749.38	1.63	800
L104	E +	41	S	3363.40	550.89	749.41	1.62	800
L104	E +	40	S	3395.22	549.13	749.35	1.46	800
L104	E +	39	S	3416.49	547.92	749.28	1.34	800
L104	E +	38	S	3439.99	546.63	749.27	1.22	800
L104	E +	37	S	3454.93	545.67	749.10	1.12	800
L104	E +	36	S	3476.30	544.49	749.09	1.03	800
L104	E +	35	S	3493.88	543.40	748.93	0.92	800
L104	E +	34	S	3508.04	542.59	748.87	0.82	800
L104	E +	33	S	3524.32	541.58	748.77	0.76	810
L104	E +	32	S	3538.90	540.73	748.76	0.74	810
L104	E +	31	S	3546.81	540.39	748.92	0.75	810
L104	E +	30	S	3560.98	539.69	749.09	0.78	810
L104	E +	29	S	3572.03	539.18	749.28	0.82	810

L104 F + 28 S	3587.61	538.31	749.38	0.86	819
L104 E + 27 S	3611.89	536.95	749.47	0.87	816
L104 F + 26 S	3636.65	535.53	749.50	0.86	817
L104 F + 25 S	3659.72	534.16	749.48	0.84	818
L104 E + 24 S	3681.81	532.89	749.49	0.81	819
L104 F + 23 S	3698.71	531.91	749.45	0.76	820
L104 E + 22 S	3709.45	531.29	749.41	0.69	821
L104 E + 21 S	3725.80	530.33	749.37	0.65	822
L104 E + 20 S	3720.75	530.59	749.29	0.59	823
L104 E + 19 S	3722.86	530.41	749.25	0.58	824
L104 E + 18 S	3722.48	530.46	749.33	0.63	825
L104 E + 17 S	3733.07	529.78	749.32	0.66	826
L104 E + 16 S	3740.99	529.26	749.30	0.68	827
L104 E + 15 S	3746.48	528.93	749.36	0.73	828
L104 F + 14 S	3753.12	528.45	749.35	0.78	829
L104 E + 13 S	3761.19	527.91	749.35	0.84	830
L104 E + 12 S	3773.06	527.15	749.34	0.88	831
L104 F + 11 S	3784.10	526.56	749.46	0.92	832
L104 E + 10 S	3797.05	525.80	749.51	0.96	833
L104 E + 9 S	3809.54	525.05	749.53	0.99	834
L104 E + 8 S	3811.36	524.96	749.70	1.12	835
L104 E + 7 S	3825.79	524.04	749.79	1.27	836
L104 E + 6 S	3841.61	522.98	749.82	1.42	837
L104 E + 5 S	3853.08	522.25	750.06	1.70	838
L104 E + 4 S	3900.92	519.46	750.10	1.72	839
L104 F + 3 S	3939.04	517.34	750.12	1.62	840
L104 E + 2 S	3971.91	515.45	750.04	1.51	841
L104 E + 1 S	3997.27	513.96	749.95	1.40	842
L104 E + 0	4020.75	512.50	749.84	1.37	843
L104 E + 1 N	4049.08	510.89	750.01	1.47	844
L104 E + 2 N	4084.36	508.66	750.05	1.67	845
L104 E + 3 N	4119.98	506.52	750.20	1.86	846
L104 E + 4 N	4156.83	504.31	750.27	1.97	847
L104 E + 5 N	4196.45	501.94	750.25	1.99	848
L104 E + 6 N	4229.27	500.04	750.22	1.94	849
L104 E + 7 N	4260.62	498.24	750.17	1.84	850
L104 E + 8 N	4292.79	496.24	749.98	1.75	851
L104 E + 9 N	4319.73	494.65	749.88	1.65	852
L104 E + 10 N	4346.18	493.10	749.82	1.59	853
L104 E + 11 N	4367.11	491.82	749.71	1.52	854
L104 E + 12 N	4389.32	490.48	749.68	1.51	855
L104 F + 13 N	4412.67	489.05	749.66	1.55	856
L104 F + 14 N	4448.46	486.82	749.59	1.60	857
L104 E + 15 N	4477.43	485.07	749.54	1.59	858
L104 E + 16 N	4500.57	483.68	749.44	1.51	859
L104 F + 17 N	4528.04	482.00	749.28	1.42	860
L104 F + 18 N	4552.08	480.52	749.13	1.33	861
L104 E + 19 N	4565.03	479.75	749.08	1.27	862
L104 E + 20 N	4581.80	478.70	749.04	1.29	863
L104 F + 21 N	4603.85	477.19	748.89	1.34	864
L104 F + 22 N	4626.73	475.74	748.87	1.41	865
L104 E + 23 N	4652.05	473.99	748.77	1.56	866
L104 E + 24 N	4676.28	472.25	748.61	1.71	867
L104 F + 25 N	4712.26	469.69	748.27	1.83	868
L104 F + 26 N	4750.33	467.11	748.03	1.93	869
L104 F + 27 N	4785.18	464.70	747.76	2.02	870
L104 E + 28 N	4823.28UUUUUUUUUU		285.33	2.05	871
L104 E + 29 N	4872.59	458.49	746.67	2.00	872
L104 E + 30 N	4910.67	456.01	746.35	1.93	873
L104 E + 31 N	4945.18	453.63	746.00	1.93	874

L104 E + 32 N	4962.60	452.55	745.73	1.70	879
L104 E + 33 N	4965.48	452.67	745.71	1.37	870
L104 E + 34 N	4957.74	453.55	745.87	1.08	871
L104 E + 35 N	4955.12	453.88	745.89	0.91	872
L104 E + 36 N	4956.34	453.96	745.94	0.80	873
L104 E + 37 N	4957.21	453.95	745.94	0.74	880
L104 E + 38 N	4958.82	453.94	746.02	0.71	881
L104 E + 39 N	4955.99	454.20	746.12	0.69	882
L104 E + 40 N	4951.24	454.58	746.23	0.69	883
L104 E + 41 N	4949.84	454.59	746.22	0.73	884
L104 E + 42 N	4942.36	455.12	746.35	0.79	885
L104 E + 43 N	4932.91	455.84	746.65	0.87	886
L104 E + 44 N	4925.58	456.32	747.17	1.31	887
L104 E + 45 15N	4919.30	456.66	747.69	1.83	888
L112 E + 44 S	3593.37	536.80	749.08	2.11	889
L112 E + 43 S	3601.98	536.43	748.96	1.84	890
L112 E + 42 S	3605.07	536.27	748.78	1.61	891
L112 E + 41 S	3608.70	536.14	748.78	1.51	892
L112 E + 40 S	3595.42	536.92	748.66	1.36	893
L112 E + 39 S	3592.07	537.02	748.56	1.34	894
L112 E + 38 S	3604.28	536.39	748.62	1.31	895
L112 E + 37 S	3610.59	535.98	748.56	1.27	896
L112 E + 36 S	3614.67	535.76	748.55	1.22	897
L112 E + 35 S	3617.98	535.56	748.51	1.17	898
L112 E + 34 S	3621.55	535.32	748.43	1.10	899
L112 E + 33 S	3624.17	535.03	748.24	1.04	900
L112 E + 32 S	3624.32	535.17	748.34	0.97	901
L112 E + 31 S	3624.07	535.22	748.34	0.91	902
L112 E + 30 S	3621.13	535.56	748.51	0.89	903
L112 E + 29 S	3622.73	535.37	748.41	0.87	904
L112 E + 28 S	3620.86	535.50	748.47	0.89	905
L112 E + 27 S	3621.53	535.57	748.62	0.92	906
L112 E + 26 S	3620.46	535.63	748.69	0.97	907
L112 E + 25 S	3622.20	535.44	748.67	1.02	908
L112 E + 24 S	3624.49	535.32	748.76	1.08	909
L112 E + 23 S	3634.52	534.70	748.73	1.06	910
L112 E + 22 S	3643.75	534.15	748.72	1.05	911
L112 E + 21 S	3651.56	533.73	748.85	1.07	912
L112 E + 20 S	3662.32	533.25	748.94	1.05	913
L112 E + 19 S	3673.01	532.53	748.85	1.05	914
L112 E + 18 S	3687.88	531.67	748.84	1.01	915
L112 E + 17 S	3704.85	530.60	748.73	0.96	916
L112 E + 16 S	3717.24	529.97	748.83	0.95	917
L112 E + 15 S	3730.28	529.13	748.77	0.95	918
L112 E + 14 S	3743.89	528.25	748.71	0.95	919
L112 E + 13 S	3757.29	527.54	748.81	0.96	920
L112 E + 12 S	3773.89	526.60	748.85	0.96	921
L112 E + 11 S	3790.37	525.55	748.76	0.94	922
L112 E + 10 S	3803.80	524.80	748.83	0.96	923
L112 E + 9 S	3809.97	524.55	749.05	1.05	924
L112 E + 8 S	3827.46	523.53	749.09	1.07	925
L112 E + 7 S	3845.23	522.34	748.99	1.11	926
L112 E + 6 S	3862.94	521.24	749.00	1.17	927
L112 E + 5 S	3871.78	520.65	749.13	1.35	928
L112 E + 4 S	3899.64	518.97	749.11	1.38	929
L112 E + 3 S	3930.33	517.14	749.08	1.37	930
L112 E + 2 S	3955.07	515.54	748.94	1.36	931
L112 E + 1 S	3977.93	514.21	748.97	1.37	932
L112 E + 0	4006.96	512.54	749.05	1.41	933
L112 E + 1 N	4036.77	510.82	749.23	1.55	934

L112 E + 2 N	4086.30	507.73	749.28	1.79	939
L112 E + 3 N	4123.92	505.57	749.48	1.93	936
L112 E + 4 N	4162.23	503.26	749.47	1.98	937
L112 E + 5 N	4194.62	501.28	749.39	1.98	938
L112 E + 6 N	4226.74	499.42	749.39	1.95	939
L112 E + 7 N	4265.06	497.11	749.32	1.93	940
L112 E + 8 N	4300.02	495.03	749.26	1.89	941
L112 E + 9 N	4332.86	493.07	749.18	1.83	942
L112 E + 10 N	4353.44	491.93	749.16	1.74	943
L112 E + 11 N	4383.24	490.29	749.26	1.73	944
L112 E + 12 N	4418.40	487.95	749.01	1.76	945
L112 E + 13 N	4440.47	486.63	748.95	1.70	946
L112 E + 14 N	4467.37	484.98	748.88	1.69	947
L112 E + 15 N	4493.30	483.41	748.83	1.68	948
L112 E + 16 N	4522.68	481.60	748.75	1.68	949
L112 E + 17 N	4548.29	480.07	748.70	1.65	950
L112 E + 18 N	4556.41	479.67	748.66	1.52	951
L112 E + 19 N	4573.32	478.59	748.61	1.55	952
L112 E + 20 N	4599.35	476.85	748.44	1.58	953
L112 E + 21 N	4629.74	474.95	748.33	1.58	954
L112 E + 22 N	4656.00	473.28	748.23	1.60	955
L112 E + 23 N	4675.24	472.04	748.19	1.67	956
L112 E + 24 N	4707.01	469.96	748.05	1.73	957
L112 E + 25 N	4738.08	467.86	747.86	1.81	958
L112 E + 26 N	4780.12	464.96	747.47	1.85	959
L112 E + 27 N	4812.54	462.83	747.25	1.86	960
L112 E + 28 N	4846.83	460.50	746.94	1.86	961
L112 E + 29 N	4886.38	457.82	746.53	1.81	962
L112 E + 30 N	4922.62	455.39	746.11	1.68	963
L112 E + 31 N	4954.71	453.26	745.72	1.53	964
L112 E + 32 N	4974.58			1.31	965
L112 E + 33 N	4988.11			1.20	966
L112 E + 34 N	4986.04	451.64	745.42	0.97	967
L112 E + 35 N	4968.42	453.26	745.79	0.73	968
L112 E + 36 N	4960.37	454.03	746.00	0.62	969
L112 E + 37 N	4956.21	454.41	746.08	0.54	970
L112 E + 38 N	4953.35	454.71	746.19	0.50	971
L112 E + 39 N	4948.93	455.11	746.33	0.48	972
L112 E + 40 N	4942.70	455.65	746.52	0.47	973
L112 E + 41 N	4937.12	456.05	746.63	0.49	974
L112 E + 42 N	4927.28	456.74	746.78	0.50	975
L112 E + 43 N	4920.95	457.15	746.90	0.56	976
L112 E + 44 N	4913.91	457.68	747.13	0.65	977
L112 E + 4556N	4896.36	458.74	747.28	0.74	978
L120 E + 44 S	3659.42			1.49	979
L120 E + 4318S	3645.49	533.66	748.24	1.42	980
L120 E + 42 S	3669.03	532.30	748.21	1.35	981
L120 E + 41 S	3686.41	531.27	748.20	1.33	982
L120 E + 40 S	3717.83	529.19	748.05	1.41	983
L120 F + 39 S	3735.41	528.29	748.19	1.41	984
L120 E + 38 S	3749.86	527.39	748.12	1.39	985
L120 E + 37 S	3755.02	527.17	748.13	1.30	986
L120 E + 36 S	3769.81	526.25	748.09	1.29	987
L120 E + 35 S	3772.64	526.22	748.17	1.23	988
L120 E + 34 S	3772.73	526.30	748.19	1.15	989
L120 E + 33 S	3765.26	526.76	748.01	0.92	990
L120 E + 32 S	3760.14	527.09	748.00	0.86	991
L120 E + 31 S	3762.84	526.85	747.88	0.80	992
L120 E + 30 S	3752.04	527.77	748.15	0.77	993
L120 E + 29 S	3757.86	527.50	748.24	0.76	994

L120 E + 28 S	3771.48	526.59	748.14	0.75	99
L120 F + 27 S	3788.04	525.44	748.02	0.82	99
L120 E + 26 S	3803.03	524.53	748.05	0.86	99
L120 E + 25 S	3817.21	523.70	748.08	0.87	99
L120 E + 24 S	3823.54	523.39	748.16	0.87	99
L120 E + 23 S	3830.73	522.90	748.13	0.89	100
L120 E + 22 S	3844.40	521.98	748.04	0.92	100
L120 E + 21 S	3853.55	521.44	748.06	0.93	100
L120 E + 20 S	3861.06	520.97	748.05	0.92	100
L120 E + 19 S	3859.42	521.13	747.95	0.74	100
L120 E + 18 S	3850.26	521.80	748.17	0.81	100
L120 E + 17 S	3871.87	520.59	748.23	0.79	100
L120 E + 16 S	3884.59	519.90	748.32	0.81	100
L120 E + 15 S	3890.61	519.58	748.40	0.84	100
L120 E + 14 S	3903.99	518.66	748.31	0.87	100
L120 E + 13 S	3913.46	518.06	748.33	0.92	101
L120 E + 12 S	3929.75	517.00	748.27	0.95	101
L120 E + 11 S	3949.98	515.74	748.23	0.98	101
L120 E + 10 S	3964.79	514.90	748.30	1.01	101
L120 E + 9 S	3982.34	513.91	748.37	1.02	101
L120 E + 8 S	4002.68	512.81	748.47	1.02	101
L120 E + 7 S	4019.76	511.75	748.41	1.00	101
L120 E + 6 S	4030.99	511.13	748.37	0.92	101
L120 F + 5 S	4039.48	510.65	748.40	0.91	101
L120 E + 4 S	4043.73	510.39	748.42	0.93	101
L120 E + 3 S	4048.02	510.05	748.39	0.96	102
L120 E + 2 S	4051.51	509.82	748.45	1.03	102
L120 E + 1 S	4056.41	509.45	748.44	1.08	102
L120 E + 0 S	4061.63	509.11	748.49	1.16	102
L120 F + 1 N	4075.62			1.17	102
L120 E + 2 N	4095.26	506.85	748.21	1.14	102
L120 F + 3 N	4112.09	505.80	748.16	1.14	102
L120 E + 4 N	4125.43	504.92	748.09	1.15	102
L120 E + 5 N	4141.00	504.12	748.24	1.17	102
L120 F + 6 N	4156.47	503.21	748.29	1.21	102
L120 E + 7 N	4169.52	502.40	748.34	1.29	103
L120 E + 8 N	4183.08	501.61	748.49	1.42	103
L120 E + 9 N	4201.62	500.45	748.48	1.48	103
L120 E + 10 N	4225.76	498.94	748.39	1.47	103
L120 E + 11 N	4251.49	497.47	748.40	1.44	103
L120 E + 12 N	4272.88	496.05	748.27	1.47	103
L120 E + 13 N	4285.80			1.63	103
L120 E + 14 N	4304.59	493.93	748.40	1.83	103
L120 E + 15 N	4330.14	492.29	748.47	2.03	103
L120 E + 16 N	4358.17	490.53	748.56	2.23	103
L120 F + 17 N	4399.94	487.91	748.45	2.28	104
L120 E + 18 N	4446.17	485.13	748.38	2.28	104
L120 E + 19 N	4487.89	482.61	748.23	2.20	104
L120 E + 20 N	4531.52	479.94	748.06	2.14	104
L120 E + 21 N	4574.54	477.29	747.79	1.99	104
L120 E + 22 N	4616.44	474.74	747.48	1.77	104
L120 E + 23 N	4652.33	472.55	747.16	1.52	104
L120 E + 24 N	4674.79	471.27	746.94	1.26	104
L120 E + 25 N	4688.24	470.53	746.79	1.05	104
L120 E + 26 N	4694.12			0.94	104
L120 E + 27 N	4704.98	469.61	746.72	0.88	105
L120 E + 28 N	4721.26	468.67	746.65	0.78	105
L120 E + 29 N	4733.73	467.94	746.61	0.73	105
L120 E + 30 N	4745.76	467.28	746.61	0.67	105
L120 F + 31 N	4753.29			0.65	105

L120	E	+	32	N	4767.14	466.14	746.70	0.62	105
L120	E	+	33	N	4773.71	465.84	746.82	0.64	105
L120	E	+	34	N	4784.44	465.29	746.95	0.67	105
L120	F	+	35	N	4801.50			0.65	105
L120	E	+	36	N	4821.59	463.17	746.99	0.62	105
L120	F	+	37	N	4837.59			0.59	106
L120	F	+	38	N	4866.15	460.46	746.80	0.51	106
L120	E	+	39	N	4882.09	459.58	746.79	0.44	106
L120	E	+	40	N	4898.76	458.58	746.72	0.38	106
L120	E	+	41	N	4909.89	457.94	746.70	0.32	106
L120	E	+	42	N	4921.11	457.17	746.57	0.29	106
L120	E	+	43	N	4922.51	457.20	746.68	0.27	106
L120	F	+	44	N	4935.86	456.26	746.58	0.31	106
L120	E	+	45	N	4936.53	456.24	746.63	0.33	106
L128	E	+	45	S	3707.14	529.39	747.45	1.40	106
L128	E	+	44	S	3720.21	528.65	747.36	1.27	107
L128	E	+	43	S	3729.09	528.27	747.39	1.14	107
L128	E	+	42	S	3739.34	527.57	747.29	1.12	107
L128	E	+	41	S	3754.79	526.66	747.35	1.17	107
L128	F	+	40	S	3775.60			1.18	107
L128	F	+	39	S	3825.52	522.09	746.86	1.11	107
L128	E	+	38	S	3844.25	521.13	746.84	0.94	107
L128	E	+	37	S	3844.33	521.40	746.91	0.71	107
L128	E	+	36	S	3849.10	521.12	746.82	0.60	107
L128	E	+	35	S	3844.23	521.51	746.91	0.57	107
L128	F	+	34	S	3852.37	521.02	746.90	0.55	108
L128	E	+	33	S	3867.81	520.10	746.88	0.53	108
L128	E	+	32	S	3876.65	519.67	746.98	0.53	108
L128	E	+	31	S	3893.40	518.65	746.96	0.53	108
L128	E	+	30	S	3893.64	518.74	747.10	0.55	108
L128	E	+	29	S	3909.26	517.75	747.05	0.56	108
L128	E	+	28	S	3922.10	517.01	747.09	0.58	108
L128	E	+	27	S	3936.03	516.33	747.25	0.58	108
L128	F	+	26	S	3945.56	515.78	747.28	0.59	108
L128	E	+	25	S	3960.02	514.83	747.19	0.58	108
L128	E	+	24	S	3976.00	513.98	747.27	0.58	109
L128	E	+	23	S	3986.38	513.29	747.20	0.57	109
L128	E	+	22	S	3978.97	513.80	747.30	0.57	109
L128	F	+	21	S	3988.73	513.28	747.38	0.58	109
L128	F	+	20	S	4005.91	512.27	747.39	0.58	109
L128	F	+	19	S	4016.66	511.66	747.45	0.60	109
L128	E	+	18	S	4020.93	511.39	747.44	0.61	109
L128	E	+	17	S	4008.19	512.13	747.51	0.65	109
L128	E	+	16	S	4004.07	512.40	747.71	0.81	109
L128	E	+	15	S	4011.21	511.94	747.82	0.94	109
L128	F	+	14	S	4031.51	510.72	747.82	0.95	110
L128	F	+	13	S	4066.35	508.61	747.68	0.89	110
L128	E	+	12	S	4079.65	507.82	747.70	0.90	110
L128	E	+	11	S	4097.28	506.71	747.65	0.92	110
L128	E	+	10	S	4118.40	505.36	747.58	0.94	110
L128	E	+	9	S	4136.74	504.24	747.56	0.95	110
L128	F	+	8	S	4158.62	502.90	747.51	0.95	110
L128	E	+	7	S	4175.92			0.96	110
L128	E	+	6	S	4199.66	500.39	747.44	0.97	110
L128	E	+	5	S	4212.37	499.66	747.45	0.94	110
L128	E	+	4	S	4225.92	498.87	747.46	0.93	111
L128	E	+	3	S	4240.63	497.79	747.26	0.94	111
L128	E	+	2	S	4250.86	497.17	747.26	0.93	111
L128	F	+	1	S	4260.54	496.65	747.32	0.93	111
L128	E	+	0		4269.46	496.16	747.36	0.93	111

L128	E +	1	N	4278.72	495.56	747.30	0.91	111
L128	E +	2	N	4286.71	495.07	747.26	0.88	111
L128	E +	3	N	4293.81	494.63	747.22	0.84	111
L128	E +	4	N	4292.38	494.73	747.20	0.80	111
L128	E +	5	N	4289.85	494.90	747.25	0.81	111
L128	E +	6	N	4297.57	494.42	747.25	0.81	112
L128	E +	7	N	4304.48	494.04	747.31	0.83	112
L128	E +	8	N	4310.45	493.64	747.30	0.86	112
L128	E +	9	N	4316.30	493.21	747.28	0.90	112
L128	E +	10	N	4320.59			0.97	112
L128	E +	11	N	4330.04	492.40	747.43	1.03	112
L128	E +	12	N	4352.26	490.96	747.28	1.00	112
L128	E +	13	N	4370.60	489.77	747.20	1.02	112
L128	E +	14	N	4365.41	490.09	747.27	1.06	112
L128	E +	15	N	4364.90	490.02	747.33	1.20	112
L128	E +	16	N	4363.94	489.96	747.51	1.47	113
L128	E +	17	N	4372.36	489.35	747.70	1.77	113
L128	E +	18	N	4387.04	488.41	748.01	2.15	113
L136	E +	44	S	3725.92	527.55	746.77	1.52	113
L136	E +	43	S	3746.29	526.47	746.78	1.40	113
L136	E +	42	S	3766.28	525.30	746.69	1.30	113
L136	E +	41	S	3789.05	523.89	746.52	1.19	113
L136	E +	40	S	3793.35	523.75	746.52	1.07	113
L136	E +	39	S	3806.59	522.97	746.48	1.02	113
L136	E +	38	S	3821.61	522.08	746.48	1.02	113
L136	E +	37	S	3848.99	520.37	746.37	1.00	114
L136	E +	36	S	3872.16	518.97	746.29	0.95	114
L136	E +	35	S	3884.64	518.32	746.29	0.85	114
L136	E +	34	S	3887.77	518.18	746.28	0.78	114
L136	E +	33	S	3905.54	517.25	746.38	0.75	114
L136	E +	32	S	3923.54	516.21	746.38	0.72	114
L136	E +	31	S	3940.97	515.21	746.40	0.70	114
L136	E +	30	S	3945.93	515.00	746.46	0.67	114
L136	E +	29	S	3946.61	514.95	746.54	0.74	114
L136	E +	28	S	3961.01	514.08	746.56	0.73	114
L136	E +	27	S	3997.94	511.82	746.45	0.75	115
L136	E +	26	S	4012.41	511.04	746.52	0.74	115
L136	E +	25	S	4031.34	509.93	746.52	0.73	115
L136	E +	24	S	4060.67	508.09	746.41	0.72	115
L136	E +	23	S	4071.33	507.55	746.44	0.66	115
L136	E +	22	S	4072.16	507.52	746.46	0.63	115
L136	E +	21	S	4087.88	506.55	746.43	0.64	115
L136	E +	20	S	4103.06	505.63	746.41	0.64	115
L136	E +	19	S	4119.99	504.61	746.38	0.63	115
L136	E +	18	S	4135.99	503.62	746.32	0.60	115
L136	E +	17	S	4150.12	502.81	746.31	0.57	116
L136	E +	16	S	4155.65	502.46	746.26	0.52	116
L136	E +	15	S	4167.42	501.70	746.17	0.50	116
L136	E +	14	S	4169.86	501.54	746.15	0.47	116
L136	E +	13	S	4165.00	501.89	746.27	0.50	116
L136	E +	12	S	4178.19	501.04	746.21	0.50	116
L136	E +	11	S	4189.02	500.44	746.30	0.54	116
L136	E +	10	S	4200.45	499.85	746.45	0.60	116
L136	E +	9	S	4218.36	498.77	746.49	0.67	116
L136	E +	8	S	4236.20	497.65	746.47	0.72	116
L136	E +	7	S	4260.40	496.17	746.44	0.73	117
L136	E +	6	S	4278.57	495.05	746.41	0.74	117
L136	E +	5	S	4294.10	494.07	746.37	0.76	117
L136	E +	4	S	4311.76	492.99	746.38	0.79	117
L136	E +	3	S	4331.08	491.77	746.33	0.82	117

L136	E +	2	S	4357.81	490.02	746.14	0.80	117
L136	E +	1	S	4375.20	488.98	746.09	0.76	117
L136	E +	0		4387.76	488.25	746.08	0.72	117
L136	E +	1	N	4398.59	487.55	746.01	0.71	117
L136	E +	2	N	4412.30	486.72	746.02	0.75	117
L136	E +	3	N	4429.46	485.63	746.01	0.81	118
L136	E +	4	N	4448.46	484.50	746.09	0.88	118
L136	E +	5	N	4462.29	483.66	746.09	0.91	118
L136	F +	6	N	4470.00	483.31	746.18	0.88	118
L136	E +	7	N	4487.08	482.25	746.20	0.93	118
L136	F +	8	N	4504.55	481.08	746.12	0.99	118
L136	E +	9	N	4519.35	480.14	746.08	1.01	118
L136	F +	10	N	4529.53	479.58	746.10	0.98	118
L136	E +	11	N	4538.93	479.02	746.09	0.95	118
L136	E +	12	N	4543.18	478.73	746.01	0.91	118
L136	F +	13	N	4549.32	478.46	746.13	0.92	119
L136	E +	14	N	4568.45	477.19	746.07	1.00	119
L136	E +	15	N	4582.01	476.30	746.03	1.03	119
L136	E +	16	N	4598.93	475.20	745.99	1.08	119
L136	E +	17	N	4610.87	474.50	746.00	1.08	119
L136	E +	18	N	4631.85	473.04	745.82	1.13	119
L136	E +	19	N	4638.27	472.60	745.72	1.07	119
L136	F +	20	N	4661.41	471.26	745.77	1.10	119
L136	E +	21	N	4678.82	470.09	745.62	1.07	119
L136	F +	22	N	4690.21	469.43	745.57	1.00	119
L136	E +	23	N	4702.67	468.60	745.43	0.95	120
L136	F +	24	N	4713.30	467.83	745.28	0.92	120
L136	E +	25	N	4728.29	467.01	745.35	0.93	120
L136	E +	26	N	4742.48	466.23	745.45	0.96	120
L136	E +	27	N	4762.52	464.93	745.38	1.01	120
L136	E +	28	N	4784.17	463.67	745.45	1.05	120
L136	E +	29	N	4807.55	462.26	745.44	1.08	120
L136	F +	30	N	4831.49	460.85	745.43	1.05	120
L136	E +	31	N	4852.97	459.52	745.31	1.00	120
L136	E +	32	N	4870.67	458.50	745.29	0.95	120
L136	E +	33	N	4885.33	457.74	745.35	0.90	121
L136	E +	34	N	4902.87	456.65	745.27	0.87	121
L136	F +	35	N	4918.57	455.71	745.24	0.84	121
L136	E +	36	N	4932.44	454.98	745.30	0.80	121
L136	E +	37	N	4940.94	454.49	745.27	0.76	121
L136	E +	38	N	4950.23	453.98	745.30	0.73	121
L136	F +	39	N	4958.23	453.54	745.35	0.73	121
L136	E +	40	N	4974.04	452.70	745.44	0.72	121
L136	E +	41	N	4986.77	451.84	745.33	0.71	121
L136	E +	42	N	5000.13	450.98	745.26	0.71	121
L136	E +	43	N	5013.28	450.15	745.20	0.70	122
L136	E +	44	N	5028.42	449.16	745.12	0.70	122
L136	E +	45	N	5035.59	448.81	745.21	0.70	122
L144	E +	0		4375.92	487.57	745.36	1.46	122
L144	F +	1	N	4373.77	487.66	745.30	1.41	122
L144	E +	2	N	4377.16	487.39	745.24	1.40	122
L144	E +	3	N	4393.85	486.25	745.13	1.44	122
L144	E +	4	N	4407.22	485.41	745.09	1.44	122
L144	F +	5	N	4424.11	484.30	745.02	1.48	122
L144	E +	6	N	4438.81	483.28	744.88	1.49	122
L144	E +	7	N	4444.58	483.10	745.04	1.47	123
L144	E +	8	N	4460.85	482.03	745.01	1.54	123
L144	E +	9	N	4477.85	480.91	744.97	1.61	123
L144	E +	10	N	4509.31	478.84	744.88	1.74	123
L144	E +	11	N	4521.91	478.30	745.04	1.68	123

L144 E + 12 N	4547.43	476.67	744.96	1.72	123
L144 E + 13 N	4565.87	475.62	744.98	1.70	123
L144 E + 14 N	4594.68	473.88	744.94	1.71	123
L144 F + 15 N	4604.48	473.49	745.03	1.60	123
L144 E + 16 N	4622.86	472.34	744.98	1.61	123
L144 E + 17 N	4656.25	470.08	744.81	1.74	124
L144 E + 18 N	4678.92	468.66	744.73	1.73	124
L144 E + 19 N	4691.76	467.97	744.78	1.70	124
L144 E + 20 N	4718.09	466.23	744.69	1.80	124
L144 F + 21 N	4748.64	464.26	744.66	1.94	124
L144 F + 22 N	4784.26	461.66	744.38	2.17	124
L144 E + 23 N	4798.15	460.89	744.34	2.07	124
L144 E + 24 N	4801.57	460.81	744.30	1.89	124
L144 E + 25 N	4806.15	460.51	744.18	1.78	124
BLO + 33 E	4197.35	505.79	753.03	0.36	124
BLO + 34 E	4199.89	505.65	752.99	0.32	125
BLO + 35 E	4213.69	504.61	752.80	0.36	125
BLO + 36 E	4208.33	505.09	752.86	0.27	125
BLO + 37 E	4202.36	505.52	752.91	0.24	125
BLO + 38 E	4207.61	505.20	752.88	0.24	125
BLO + 39 E	4217.70	504.45	752.72	0.25	125
BLO + 41 E	4231.58	503.57	752.64	0.27	125
BLO + 42 E	4238.91	503.06	752.55	0.27	125
BLO + 43 E	4239.58	502.99	752.48	0.24	125
BLO + 44 E	4245.97	502.52	752.37	0.23	125
BLO + 45 E	4255.99	501.82	752.25	0.24	126
BLO + 46 E	4255.21	501.86	752.20	0.20	126
BLO + 47 F	4251.06	502.14	752.23	0.21	126
BLO + 49 E	4278.66	500.10	751.84	0.27	126
BLO + 50 E	4289.48	499.38	751.77	0.29	126
BLO + 51 E	4297.92	498.77	751.63	0.27	126
BLO + 52 E	4301.26	498.49	751.50	0.24	126
BLO + 53 E	4304.60	498.13	751.30	0.21	126
BLO + 54 E	4311.73	497.52	751.11	0.23	126
BLO + 55 E	4308.22	497.72	751.05	0.18	126
BLO + 57 F	4301.85	498.20	751.10	0.14	127
BLO + 58 E	4305.89	497.84	750.97	0.14	127
BLO + 59 F	4308.46	497.63	750.90	0.14	127
BLO + 60 E	4314.25	497.23	750.85	0.16	127
BLO + 61 E	4317.54	496.96	750.77	0.17	127
BLO + 62 E	4316.72	496.98	750.73	0.17	127
BLO + 63 F	4316.56	496.95	750.69	0.17	127
BLO + 65 E	4301.71	497.99	750.82	0.16	127
BLO + 66 E	4296.14	498.32	750.83	0.16	127
BLO + 67 E	4297.15	498.27	750.85	0.18	127
BLO + 68 F	4295.73	498.41	750.94	0.21	128
BLO + 69 E	4286.65	499.03	751.01	0.20	128
BLO + 70 E	4283.36	499.21	751.00	0.22	128
BLO + 71 E	4278.01	499.56	751.02	0.21	128
BLO + 73 E	4269.67	500.00	750.96	0.21	128
BLO + 74 E	4267.69	500.11	750.96	0.22	128
BLO + 75 E	4274.95	499.65	750.93	0.24	128
BLO + 76 E	4283.64	499.00	750.81	0.28	128
BLO + 77 E	4287.58	498.70	750.76	0.30	128
BLO + 78 E	4296.72	498.03	750.68	0.36	128
BLO + 79 E	4298.72	497.87	750.65	0.39	129
BLO + 81 E	4292.79	498.13	750.58	0.42	129
BLO + 82 E	4292.20	497.97	750.42	0.47	129
BLO + 83 E	4287.65	498.26	750.48	0.52	129
BLO + 84 E	4280.41	498.62	750.46	0.56	129

BLO	+	85	E	4277.09	498.75	750.47	0.65	129
BLO	+	86	E	4259.97	499.80	750.50	0.63	129
BLO	+	87	E	4250.87	500.26	750.46	0.67	129
BLO	+	89	E	4221.72	501.97	750.55	0.77	129
BLO	+	90	F	4204.91	502.90	750.57	0.83	129
BLO	+	91	F	4179.85	504.40	750.63	0.87	130
BLO	+	92	E	4164.27	505.22	750.60	0.93	130
BLO	+	93	F	4141.89	506.51	750.61	0.97	130
BLO	+	94	E	4117.06	508.00	750.64	0.97	130
BLO	+	95	E	4092.78	509.27	750.50	0.98	130
BLO	+	97	F	4044.38	511.84	750.36	1.12	130
BLO	+	98	E	4029.00	512.58	750.27	1.18	130
BLO	+	99	E	4026.47	512.55	750.02	1.12	130
BLO	+	100	E	4028.32	512.31	749.84	1.09	130
BLO	+	101	E	4033.55	511.97	749.84	1.13	130
BLO	+	102	E	4039.19	511.58	749.88	1.24	131
BLO	+	103	F	4030.19	512.02	749.87	1.32	131
BLO	+	105	E	4010.13	512.97	749.68	1.37	131
BLO	+	106	E	4001.94	513.38	749.58	1.34	131
BLO	+	107	F	4002.21	513.19	749.35	1.29	131
BLO	+	108	E	3997.68	513.29	749.17	1.29	131
BLO	+	109	E	4003.72	512.84	749.06	1.29	131
BLO	+	110	E	4007.32	512.55	749.03	1.34	131
BLO	+	111	E	3998.83	513.07	749.13	1.42	131
BLO	+	113	E	4015.33	512.01	748.91	1.32	131
BLO	+	114	E	4019.85	511.67	748.72	1.22	132
BLO	+	115	E	4020.67	511.60	748.60	1.13	132
BLO	+	116	E	4015.59	511.83	748.54	1.14	132
BLO	+	117	F	4024.27	511.27	748.44	1.10	132
BLO	+	118	E	4037.05	510.49	748.35	1.06	132
BLO	+	119	F	4049.50	509.75	748.35	1.07	132
BLO	+	121	E	4083.89	507.79	748.52	1.22	132
BLO	+	122	E	4112.43	506.06	748.50	1.28	132
BLO	+	123	E	4141.68	504.29	748.44	1.29	132
BLO	+	124	E	4171.20	502.45	748.29	1.26	132
BLO	+	125	E	4194.07	501.06	748.19	1.23	133
BLO	+	126	E	4220.57	499.32	747.91	1.15	133
BLO	+	127	E	4247.17	497.57	747.57	1.03	133
BLO	+	129	F	4284.85	495.19	747.24	0.89	133
BLO	+	130	E	4307.14	493.80	747.14	0.89	133
BLO	+	131	E	4322.59	492.81	747.02	0.87	133
BLO	+	132	E	4340.65	491.65	746.89	0.84	133
BLO	+	133	E	4353.35	490.77	746.70	0.80	133
BLO	+	134	E	4366.77	489.72	746.39	0.77	133
BLO	+	135	E	4380.87	488.70	746.17	0.76	133
BLO	+	137	E	4395.09	487.70	745.93	0.70	134
BLO	+	138	F	4404.58	486.90	745.68	0.72	134
BLO	+	139	E	4413.34	486.19	745.52	0.76	134
BLO	+	140	E	4416.43	485.78	745.33	0.82	134
BLO	+	141	E	4414.80	485.81	745.34	0.90	134
BLO	+	142	E	4403.35	486.32	745.24	0.96	134
BLO	+	143	E	4390.78			1.14	134

EXECUTION TERMINATED

APPENDIX B NON-LINEAR IMS FIT GRAVITY DATA

$$g(h) = 673.3 - 0.018492h - 0.000005094h^2 \text{ mgals}$$

where

h = station elevation in feet; g(h) = IMS fit gravity in mgals

STATION	COORD.	ELEVATION	OBSERVED GRAVITY	ADJUSTED GRAVITY	IMS FIT GRAVITY	NON-LIN. B. GRAVITY	STN COUNT
L24	E + 0 N	4081.65	513.59	516.15	512.96	3.19	1
L24	E + 1 N	4090.69	513.04	515.58	512.41	3.17	2
L24	E + 2 N	4102.04	512.32	514.86	511.73	3.13	3
L24	E + 3 N	4105.51	512.16	514.75	511.52	3.23	4
L24	E + 4 N	4100.88	512.43	515.08	511.80	3.28	5
L24	E + 5 N	4083.77	513.63	516.32	512.83	3.49	6
L24	E + 6 N	4077.96	513.94	516.70	513.18	3.52	7
L24	E + 7 N	4055.22	515.42	518.21	514.54	3.67	8
L24	E + 8 N	4043.40	516.17	518.99	515.25	3.74	9
L24	E + 9 N	4034.55	516.68	519.55	515.77	3.78	10
L24	E + 10 N	4034.94	516.73	519.68	515.75	3.93	11
L24	E + 11 N	4026.83	517.19	520.21	516.23	3.98	12
L24	E + 12 N	4006.41	518.43	521.47	517.45	4.02	13
L24	E + 13 N	3985.10	519.82	522.94	518.71	4.23	14
L24	E + 14 N	3988.82	519.57	522.70	518.49	4.21	15
L24	E + 15 N	3992.24	519.29	522.50	518.29	4.21	16
L24	E + 16 N	3992.16	519.29	522.63	518.29	4.34	17
L24	E + 17 N	4009.24	518.09	521.60	517.28	4.32	18
L24	E + 18 N	4028.39	516.67	520.51	516.14	4.37	19
L24	E + 19 N	4026.84	516.66	520.74	516.23	4.51	20
L24	E + 20 N	4027.45	516.30	520.77	516.20	4.57	21
L24	E + 21 N	4018.92	517.59	522.30	516.70	5.60 (?)	22
L24	E + 22 N	3995.98	517.77	522.73	518.07	4.66	23
L32	E + 2975S	3656.78	535.87	541.19	537.56	3.63	24
L32	E + 29 S	3673.57	535.29	540.03	536.62	3.41	25
L32	E + 28 S	3706.30	533.26	537.67	534.79	2.88	26
L32	E + 27 S	3736.40	531.62	535.78	533.09	2.69	27
L32	E + 26 S	3768.84	529.91	533.87	531.25	2.62	28
L32	E + 25 S	3801.07	527.89	531.68	529.41	2.27	29
L32	E + 24 S	3834.70	526.10	529.73	527.48	2.25	30
L32	E + 23 S	3864.35	524.39	527.82	525.77	2.05	31
L32	E + 22 S	3891.72	522.89	526.12	524.18	1.94	32
L32	E + 21 S	3909.50	522.01	525.04	523.12	1.92	33
L32	E + 20 S	3915.55	521.95	524.80	522.79	2.01	34
L32	E + 19 S	3926.86	521.30	524.07	522.13	1.94	35
L32	E + 18 S	3938.83	520.84	523.56	521.43	2.13	36
L32	E + 17 S	3957.54	519.64	522.31	520.33	1.98	37
L32	E + 16 S	3967.14	519.26	521.89	519.77	2.12	38
L32	E + 15 S	3977.70	518.71	521.33	519.15	2.18	39
L32	E + 14 S	3996.65	517.62	520.22	518.03	2.19	40
L32	E + 13 S	4011.39	516.76	519.37	517.15	2.22	41
L32	E + 12 S	4024.36	516.05	518.69	516.38	2.31	42
L32	E + 11 S	4052.92	514.19	516.85	514.68	2.17	43
L32	E + 10 S	4067.40	513.42	516.06	513.81	2.25	44
L32	E + 9 S	4087.45	512.22	514.85	512.61	2.24	45
L32	E + 8 S	4105.48	511.12	513.74	511.52	2.22	46

L32	E +	7	S	4121.36	510.18	512.78	510.56	2.22	47
L32	E +	6	S	4125.01	510.18	512.74	510.34	2.40	48
L32	E +	5	S	4133.06	509.70	512.27	509.85	2.42	49
L32	E +	4	S	4156.56	508.06	510.66	508.43	2.23	50
L32	E +	3	S	4163.96	507.75	510.33	507.98	2.35	51
L32	E +	2	S	4183.71	506.43	509.03	506.77	2.26	52
L32	E +	1	S	4185.52	506.46	509.01	506.66	2.35	53
L32	E +	0		4181.58	506.84	509.35	506.90	2.45	54
L32	E +	1	N	4181.82	506.90	509.40	506.89	2.51	55
L32	E +	2	N	4177.71	507.18	509.68	507.14	2.54	56
L32	E +	3	N	4180.31	507.12	509.66	506.98	2.68	57
L32	E +	4	N	4172.63	507.69	510.24	507.45	2.79	58
L32	E +	5	N	4162.96	508.41	510.99	508.04	2.95	59
L32	E +	6	N	4159.47	508.59	511.25	508.25	3.00	60
L32	E +	7	N	4141.85	509.73	512.39	509.32	3.07	61
L32	E +	8	N	4119.33	511.23	513.91	510.68	3.22	62
L32	E +	9	N	4109.09	511.90	514.58	511.30	3.28	63
L32	E +	10	N	4096.14	512.65	515.35	512.08	3.27	64
L32	E +	11	N	4094.54	512.76	515.47	512.18	3.29	65
L32	E +	12	N	4082.24	513.50	516.25	512.92	3.33	66
L32	E +	13	N	4078.16	513.71	516.49	513.17	3.32	67
L32	E +	14	N	4070.48	514.07	516.88	513.63	3.25	68
L32	E +	15	N	4065.05	514.40	517.26	513.95	3.31	69
L32	E +	16	N	4060.97	514.70	517.61	514.20	3.41	70
L32	E +	17	N	4058.01	514.86	517.84	514.37	3.47	71
L32	E +	18	N	4055.02	515.01	518.06	514.55	3.51	72
L32	E +	19	N	4053.98	515.03	518.18	514.61	3.57	73
L32	E +	20	N	4058.63	514.63	517.94	514.34	3.60	74
L32	E +	21	N	4060.99	514.25	517.80	514.19	3.60	75
L32	E +	22	N	4051.96	514.63	518.40	514.74	3.66	76
L32	E +	23	N	4045.17	514.69	518.84	515.14	3.70	77
L32	E +	24	N	4034.58	514.85	519.51	515.77	3.74	78
L32	E +	25	N	3998.39	516.99	521.82	517.92	3.90	79
L32	E +	26	N	3956.37	519.41	524.33	520.40	3.93	80
L32	E +	27	N	3910.39	522.13	527.05	523.09	3.95	81
L32	E +	28	N	3864.84	524.70	529.53	525.74	3.79	82
L32	E +	29	N	3816.55	527.46	532.18	528.52	3.66	83
L32	E +	30	N	3774.29	530.00	534.72	530.94	3.78	84
L32	E +	31	N	3749.69	531.18	535.83	532.34	3.49	85
L32	E +	32	N	3695.44	534.22	538.95	535.40	3.55	86
L32	E +	33	N	3649.19	536.61	541.21	537.98	3.23	87
L32	E +	34	N	3667.18	535.68	540.16	536.98	3.18	88
L32	E +	35	N	3661.40	535.94	540.61	537.30	3.31	89
L32	E +	36	N	3635.40	537.25	542.09	538.75	3.34	90
L32	E +	37	N	3607.31	538.64	543.50	540.31	3.19	91
L32	E +	38	N	3559.85	540.94	545.98	542.92	3.06	92
L32	E +	39	N	3514.36	543.05	548.33	545.40	2.93	93
L32	E +	40	N	3459.23	545.86	552.05	548.38	3.67 (?)	94
L32	E +	41	N	3475.82	545.02	550.43	547.48	2.95	95
L32	E +	42	N	3503.10	543.47	548.42	546.01	2.41	96
L32	E +	43	N	3516.08	542.56	547.56	545.30	2.26	97
L32	E +	44	N	3530.65	541.71	546.93	544.51	2.42	98
L32	E +	45	N	3547.43	540.66	546.23	543.60	2.63	99
L40	E +	44	S	3624.08	535.85	542.12	539.38	2.74	100
L40	E +	43	S	3620.10	536.67	542.03	539.60	2.43	101
L40	E +	42	S	3598.86	538.45	542.88	540.77	2.11	102
L40	E +	41	S	3578.08	540.29	544.14	541.92	2.22	103
L40	E +	40	S	3571.93	540.94	544.57	542.25	2.31	104
L40	E +	39	S	3551.96	542.26	545.73	543.35	2.38	105
L40	E +	38	S	3569.08	541.07	544.58	542.41	2.17	106

L40	E + 37	S	3577.54	540.68	544.29	541.95	2.34	109
L40	E + 36	S	3596.42	539.56	543.31	540.91	2.40	109
L40	E + 35	S	3619.91	538.09	541.98	539.61	2.37	109
L40	E + 34	S	3650.00	536.09	540.14	537.94	2.20	110
L40	E + 33	S	3693.33	533.44	537.72	535.52	2.20	111
L40	E + 32	S	3729.74	531.10	535.56	533.47	2.09	112
L40	E + 31	S	3763.19	528.97	533.51	531.57	1.94	112
L40	E + 30	S	3813.38	525.70	530.40	528.71	1.69	114
L40	E + 29	S	3853.14	523.20	527.86	526.42	1.44	115
L40	E + 28	S	3887.73	521.10	525.60	524.41	1.19	116
L40	E + 27	S	3893.87	521.19	525.08	524.06	1.02	117
L40	E + 26	S	3886.11	522.25	525.58	524.51	1.07	118
L40	E + 25	S	3902.15	521.32	524.43	523.58	0.85	119
L40	E + 24	S	3898.27	521.91	524.80	523.80	1.00	120
L40	E + 23	S	3914.20	521.15	523.93	522.87	1.06	121
L40	E + 22	S	3926.28	520.47	523.18	522.17	1.01	122
L40	E + 21	S	3913.68	521.49	524.29	522.90	1.39	123
L40	E + 20	S	3932.17	520.53	523.27	521.82	1.45	124
L40	E + 19	S	3963.64	518.73	521.36	519.97	1.39	125
L40	E + 18	S	3979.37	517.88	520.44	519.05	1.39	126
L40	E + 17	S	3981.16	517.93	520.47	518.94	1.53	127
L40	E + 16	S	3990.02	517.53	520.07	518.42	1.65	128
L40	E + 15	S	4014.20	516.00	518.46	516.98	1.47	129
L40	E + 14	S	4019.33	515.70	518.17	516.68	1.49	130
L40	E + 13	S	4026.04	515.57	518.09	516.28	1.81	131
L40	E + 12	S	4046.04	514.43	516.92	515.09	1.83	132
L40	E + 11	S	4062.47	513.45	515.92	514.11	1.81	133
L40	E + 10	S	4087.26	511.81	514.23	512.62	1.61	134
L40	E + 9	S	4098.18	511.31	513.71	511.96	1.75	135
L40	E + 8	S	4106.42	511.01	513.42	511.46	1.96	136
L40	E + 7	S	4117.93	510.33	512.78	510.77	2.01	137
L40	E + 6	S	4131.87	509.52	512.00	509.93	2.07	138
L40	E + 5	S	4147.51	508.63	511.13	508.98	2.15	139
L40	E + 4	S	4170.35	507.16	509.64	507.59	2.05	140
L40	E + 3	S	4188.82	506.08	508.52	506.46	2.06	141
L40	E + 2	S	4207.47	504.89	507.30	505.32	1.98	142
L40	E + 1	S	4211.49	504.82	507.18	505.07	2.11	143
L40	E + 0		4215.12	504.71	507.06	504.85	2.21	144
L40	E + 1	N	4227.94	503.87	506.22	504.06	2.16	145
L40	E + 2	N	4234.06	503.56	505.93	503.68	2.25	146
L40	E + 3	N	4231.57	503.77	506.13	503.83	2.30	147
L40	E + 4	N	4231.25	503.82	506.21	503.85	2.36	148
L40	E + 5	N	4228.13	504.04	506.47	504.05	2.42	149
L40	E + 6	N	4221.99	504.38	506.84	504.42	2.42	150
L40	E + 7	N	4204.03	505.66	508.11	505.53	2.58	151
L40	E + 8	N	4196.95	506.11	508.59	505.96	2.63	152
L40	E + 9	N	4186.42	506.86	509.36	506.61	2.75	153
L40	E + 10	N	4176.34	507.48	510.01	507.22	2.79	154
L40	E + 11	N	4167.43	508.12	510.67	507.76	2.91	155
L40	E + 12	N	4160.82	508.51	511.09	508.17	2.92	156
L40	E + 13	N	4156.26	508.81	511.42	508.45	2.97	157
L40	E + 14	N	4148.92	509.23	511.87	508.89	2.98	158
L40	E + 15	N	4148.32	509.12	511.81	508.93	2.88	159
L40	E + 16	N	4135.31	509.88	512.62	509.72	2.90	160
L40	E + 17	N	4129.53	510.12	512.93	510.07	2.86	161
L40	E + 18	N	4132.68	509.82	512.71	509.88	2.83	162
L40	E + 19	N	4138.17	509.25	512.32	509.54	2.78	163
L40	E + 20	N	4136.65	509.22	512.54	509.64	2.90	164
L40	E + 21	N	4119.94	510.16	513.69	510.65	3.04	165
L40	E + 22	N	4096.13	511.54	515.32	512.08	3.24	166

L40	E + 23	N	4061.03	513.53	517.51	514.19	3.32	167
L40	E + 24	N	4022.70	515.72	519.87	516.48	3.39	168
L40	E + 25	N	3974.22	518.42	522.74	519.35	3.39	169
L40	E + 26	N	3921.88	521.39	525.81	522.42	3.39	170
L40	E + 27	N	3898.56	522.71	526.93	523.78	3.15	171
L40	E + 28	N	3899.67	522.69	526.57	523.72	2.85	172
L40	E + 29	N	3907.23	522.09	525.85	523.28	2.57	173
L40	E + 30	N	3914.63	521.50	525.46	522.85	2.61	174
L40	E + 31	N	3905.55	521.83	526.12	523.38	2.74	175
L40	E + 32	N	3879.22	523.25	527.82	524.91	2.91	176
L40	E + 33	N	3837.79	525.66	530.42	527.30	3.12	177
L40	E + 34	N	3787.77	528.48	533.30	530.17	3.13	178
L40	E + 35	N	3743.43	530.85	535.66	532.69	2.97	179
L40	E + 36	N	3699.74	533.29	538.07	535.16	2.91	180
L40	E + 37	N	3660.56	535.33	540.13	537.35	2.78	181
L40	E + 38	N	3620.08	537.49	542.39	539.60	2.79	182
L40	E + 39	N	3583.49	539.21	544.24	541.62	2.62	183
L40	E + 40	N	3544.55	541.02	546.41	543.75	2.66	184
L40	E + 41	N	3507.12	542.76	548.90	545.79	3.11 (?)	185
L40	E + 42	N	3522.76	541.91	547.74	544.94	2.80	186
L40	E + 43	N	3560.89	539.91	545.23	542.86	2.37	187
L40	E + 44	N	3609.36	537.46	542.69	540.19	2.50	188
L40	E + 44	50N	3624.49	536.65	541.97	539.36	2.61	189
L48	E + 31	S	3833.22	525.23	528.41	527.57	0.84	190
L48	E + 30	S	3864.80	523.29	526.50	525.74	0.76	191
L48	E + 29	S	3902.74	520.87	524.09	523.54	0.55	192
L48	E + 28	S	3935.70	519.00	522.12	521.62	0.50	193
L48	F + 27	S	3961.58	517.42	520.41	520.10	0.31	194
L48	E + 26	S	3984.62	516.24	519.10	518.74	0.36	195
L48	E + 25	S	4013.29	514.45	517.27	517.04	0.23	196
L48	E + 24	S	4018.55	514.40	517.05	516.73	0.32	197
L48	E + 23	S	4025.70	514.09	516.69	516.30	0.39	198
L48	E + 22	S	4051.28	512.45	515.10	514.78	0.32	199
L48	E + 21	S	4077.94	510.78	513.50	513.18	0.32	200
L48	E + 20	S	4086.09	510.54	513.13	512.69	0.44	201
L48	F + 19	S	4100.29	509.68	512.22	511.83	0.39	202
L48	E + 18	S	4120.02	508.38	510.93	510.64	0.29	203
L48	F + 17	S	4118.95	508.73	511.12	510.71	0.41	204
L48	E + 16	S	4132.05	507.82	510.19	509.91	0.28	205
L48	E + 15	S	4128.47	508.28	510.55	510.13	0.42	206
L48	E + 14	S	4127.26	508.40	510.61	510.20	0.40	207
L48	E + 13	S	4123.73	508.85	511.06	510.42	0.64	208
L48	E + 12	S	4127.77	508.71	510.93	510.17	0.76	209
L48	E + 11	S	4131.00	508.61	510.88	509.98	0.90	210
L48	E + 10	S	4142.22	508.03	510.33	509.30	1.03	211
L48	E + 9	S	4158.26	507.06	509.38	508.32	1.06	212
L48	E + 8	S	4174.74	506.12	508.46	507.32	1.14	213
L48	E + 7	S	4190.10	505.24	507.58	506.38	1.20	214
L48	E + 6	S	4204.70	504.35	506.69	505.49	1.20	215
L48	E + 5	S	4219.06	503.56	505.89	504.60	1.29	216
L48	E + 4	S	4231.22	502.88	505.19	503.86	1.33	217
L48	E + 3	S	4242.64	502.22	504.52	503.15	1.37	218
L48	E + 2	S	4248.16	501.98	504.26	502.81	1.45	219
L48	E + 1	S	4253.81	501.81	504.07	502.46	1.61	220
L48	E + 0		4258.62	501.63	503.88	502.16	1.72	221
L48	E + 1	N	4264.34	501.31	503.55	501.81	1.74	222
L48	E + 2	N	4269.73	501.03	503.27	501.48	1.79	223
L48	E + 3	N	4275.47	500.67	502.93	501.12	1.81	224
L48	E + 4	N	4273.45	500.91	503.17	501.25	1.92	225
L48	E + 5	N	4270.62	501.18	503.47	501.42	2.05	226

L48	E +	6	N	4266.30	501.52	503.84	501.69	2.15	22
L48	E +	7	N	4256.06	502.19	504.53	502.32	2.21	22
L48	E +	8	N	4241.67	503.14	505.49	503.21	2.28	22
L48	E +	9	N	4236.63	503.49	505.86	503.52	2.34	23
L48	E +	10	N	4228.16	504.09	506.50	504.04	2.46	23
L48	E +	11	N	4214.79	504.88	507.31	504.87	2.44	23
L48	E +	12	N	4199.72	505.83	508.30	505.79	2.51	23
L48	E +	13	N	4190.85	506.40	508.89	506.33	2.56	23
L48	E +	14	N	4184.65	506.82	509.33	506.71	2.62	23
L48	E +	15	N	4179.78	507.16	509.68	507.01	2.67	23
L48	E +	16	N	4172.46	507.57	510.14	507.46	2.68	23
L48	E +	17	N	4167.41	507.78	510.41	507.77	2.64	23
L48	E +	18	N	4177.27	507.05	509.71	507.16	2.55	23
L48	E +	19	N	4180.62	506.68	509.42	506.96	2.46	24
L48	E +	20	N	4177.45	506.75	509.58	507.15	2.43	24
L48	E +	21	N	4182.88	506.20	509.17	506.82	2.35	24
L48	E +	22	N	4181.50	506.11	509.26	506.91	2.35	24
L48	E +	23	N	4170.97	506.69	509.98	507.55	2.43	24
L48	E +	24	N	4148.94	507.93	511.33	508.89	2.44	24
L48	E +	25	N	4133.76	508.80	512.38	509.81	2.57	24
L48	E +	26	N	4111.32	509.92	513.66	511.17	2.49	24
L48	E +	27	N	4082.84	511.41	515.28	512.88	2.40	24
L48	E +	28	N	4058.57	512.66	516.64	514.34	2.30	24
L48	E +	29	N	4025.17	514.58	518.65	516.33	2.32	25
L48	E +	30	N	3993.45	516.41	520.56	518.21	2.34	25
L48	E +	31	N	3967.91	517.79	521.99	519.72	2.27	25
L48	E +	32	N	3940.29	519.28	523.57	521.35	2.22	25
L48	E +	33	N	3918.73	520.32	524.74	522.61	2.13	25
L48	E +	34	N	3875.11	522.81	527.38	525.15	2.23	25
L48	E +	35	N	3831.33	525.28	529.97	527.68	2.29	25
L48	E +	36	N	3794.67	527.24	531.94	529.78	2.16	25
L48	E +	37	N	3756.09	529.46	534.19	531.97	2.22	25
L48	E +	38	N	3731.34	530.80	535.43	533.38	2.05	25
L48	E +	39	N	3705.65	532.08	536.69	534.82	1.87	26
L48	E +	40	N	3676.11	533.61	538.28	536.48	1.80	26
L48	E +	41	N	3656.94	534.50	539.17	537.55	1.62	26
L48	E +	42	N	3624.70	535.87	540.81	539.34	1.47	26
L48	E +	43	N	3596.43	537.07	542.47	540.91	1.56	26
L48	E +	44	N	3571.90	538.19	544.40	542.26		26
L56	E +	41	S	3695.36	532.89	535.46	535.40	0.06	26
L56	E +	40	S	3681.76	534.15	536.54	536.17	0.37	26
L56	E +	39	S	3673.11	535.00	537.42	536.65	0.77	26
L56	E +	38	S	3684.13	534.48	536.90	536.03	0.87	26
L56	E +	37	S	3709.94	532.85	535.23	534.58	0.65	27
L56	E +	36	S	3742.98	530.87	533.27	532.72	0.55	27
L56	E +	35	S	3766.63	529.48	531.90	531.38	0.52	27
L56	E +	34	S	3780.90	528.67	531.06	530.56	0.50	27
L56	E +	33	S	3776.49	529.00	531.45	530.81	0.64	27
L56	E +	32	S	3811.32	526.81	529.33	528.82	0.51	27
L56	E +	31	S	3842.76	524.83	527.44	527.02	0.42	27
L56	E +	30	S	3870.54	523.14	525.79	525.41	0.38	27
L56	E +	29	S	3901.36	521.31	523.96	523.62	0.34	27
L56	E +	28	S	3918.89	520.31	522.86	522.60	0.26	27
L56	E +	27	S	3946.00	518.71	521.23	521.01	0.22	28
L56	E +	26	S	3956.74	518.17	520.59	520.38	0.21	28
L56	E +	25	S	3983.79	516.49	518.92	518.79	0.13	28
L56	E +	24	S	3993.64	515.91	518.31	518.20	0.11	28
L56	E +	23	S	4012.57	514.74	517.17	517.08	0.09	28
L56	E +	22	S	4043.28	512.93	515.42	515.25	0.17	28
L56	E +	21	S	4068.69	511.42	513.91	513.73	0.18	28

L56	E + 20	S	4083.79	510.64	513.06	512.83	0.23	287
L56	E + 19	S	4099.57	509.78	512.16	511.88	0.28	288
L56	E + 18	S	4120.09	508.55	510.93	510.64	0.29	289
L56	E + 17	S	4135.96	507.65	510.02	509.68	0.34	290
L56	E + 16	S	4151.65	506.72	509.08	508.73	0.35	291
L56	E + 15	S	4173.16	505.32	507.71	507.42	0.29	292
L56	E + 14	S	4188.78	504.44	506.82	506.46	0.36	293
L56	E + 13	S	4203.61	503.56	505.92	505.55	0.37	294
L56	E + 12	S	4220.35	502.56	504.93	504.52	0.41	295
L56	E + 11	S	4235.07	501.70	504.07	503.62	0.45	296
L56	E + 10	S	4252.51	500.62	503.01	502.54	0.47	297
L56	E + 9	S	4270.19	499.51	501.92	501.45	0.47	298
L56	E + 8	S	4288.56	498.40	500.84	500.31	0.53	299
L56	E + 7	S	4292.44	498.26	500.57	500.07	0.50	300
L56	E + 6	S	4296.49	498.02	500.26	499.81	0.45	301
L56	E + 5	S	4299.90	497.83	500.02	499.60	0.42	302
L56	E + 4	S	4306.28	497.59	499.77	499.20	0.57	303
L56	E + 3	S	4313.34	497.13	499.31	498.76	0.55	304
L56	E + 2	S	4311.60	497.33	499.47	498.87	0.60	305
L56	E + 1	S	4306.25	497.84	499.95	499.21	0.74	306
L56	E + 0		4301.43	498.29	500.40	499.51	0.89	307
L56	E + 1	N	4294.86	498.85	500.96	499.92	1.04	308
L56	E + 2	N	4291.67	499.14	501.26	500.11	1.15	309
L56	E + 3	N	4288.27	499.40	501.54	500.32	1.21	310
L56	E + 4	N	4283.74	499.74	501.90	500.61	1.29	311
L56	E + 5	N	4278.78	500.15	502.34	500.91	1.43	312
L56	E + 6	N	4265.64	501.09	503.30	501.73	1.57	313
L56	E + 7	N	4242.17	502.14	504.43	503.18	1.25	314
L56	E + 8	N	4246.11	502.43	504.65	502.94	1.71	315
L56	E + 9	N	4240.92	502.81	505.04	503.26	1.78	316
L56	E + 10	N	4233.79	503.36	505.61	503.70	1.91	317
L56	E + 11	N	4228.91	503.67	505.95	504.00	1.95	318
L56	E + 12	N	4215.09	504.70	507.05	504.85	2.20	319
L56	E + 13	N	4213.99	504.77	507.14	504.92	2.22	320
L56	E + 14	N	4228.29	503.89	506.24	504.04	2.20	321
L56	E + 15	N	4235.22	503.43	505.82	503.61	2.21	322
L56	E + 16	N	4245.46	502.69	505.14	502.98	2.16	323
L56	E + 17	N	4239.68	503.06	505.52	503.33	2.19	324
L56	E + 18	N	4240.45	502.91	505.41	503.29	2.12	325
L56	E + 19	N	4241.80	502.69	505.25	503.20	2.05	326
L56	E + 20	N	4240.31	502.75	505.38	503.30	2.08	327
L56	E + 21	N	4235.74	502.93	505.62	503.58	2.04	328
L56	E + 22	N	4232.51	503.05	505.83	503.78	2.05	329
L56	E + 23	N	4241.00	502.33	505.27	503.25	2.02	330
L56	E + 24	N	4234.96	502.56	505.65	503.63	2.02	331
L56	E + 25	N	4221.99	503.16	506.40	504.42	1.98	332
L56	E + 26	N	4197.32	504.53	507.91	505.94	1.97	333
L56	E + 27	N	4171.34	506.10	509.64	507.53	2.11	334
L56	E + 28	N	4151.48	507.12	510.83	508.74	2.09	335
L56	E + 29	N	4124.80	508.53	512.43	510.35	2.08	336
L56	E + 30	N	4090.60	510.46	514.59	512.42	2.17	337
L56	E + 31	N	4056.54	512.24	516.59	514.46	2.13	338
L56	E + 32	N	4016.71	514.59	519.18	516.84	2.34	339
L56	E + 33	N	3980.61	516.63	521.38	518.97	2.41	340
L56	E + 34	N	3943.79	518.58	523.49	521.14	2.35	341
L56	E + 35	N	3910.01	520.39	525.41	523.12	2.29	342
L56	E + 36	N	3886.36	521.67	526.67	524.49	2.18	343
L56	E + 37	N	3884.98	521.50	526.25	524.57	1.68	344
L56	E + 38	N	3881.17	521.65	526.29	524.80	1.49	345
L56	E + 39	N	3871.58	521.99	526.67	525.35	1.32	346

L56	E + 40	N	3856.20	522.88	527.67	526.24	1.43	34
L56	E + 41	N	3842.52	523.62	528.54	527.03	1.51	34
L56	E + 42	N	3825.22	524.68	529.75	528.03	1.72	34
L56	E + 43	N	3813.85	525.26	530.40	528.68	1.72	35
L56	E + 44	N	3799.37	525.97	531.18	529.51	1.67	35
L56	E + 4421	N	3793.45	526.26	531.48	529.85	1.63	35
L64	E + 42	S	3766.09	527.06	531.69	531.41	0.28	35
L64	E + 41	S	3798.84	525.11	529.45	529.54	-0.09	35
L64	E + 40	S	3796.91	525.98	529.54	529.65	-0.11	35
L64	E + 39	S	3781.57	527.58	530.43	530.52	-0.09	35
L64	E + 38	S	3767.71	528.81	531.30	531.31	-0.01	35
L64	E + 37	S	3751.70	529.90	532.15	532.22	-0.07	35
L64	E + 36	S	3710.31	532.72	535.14	534.56	0.58	35
L64	E + 35	S	3732.11	531.47	533.64	533.33	0.31	36
L64	E + 34	S	3773.03	528.90	531.10	531.01	0.09	36
L64	E + 33	S	3790.08	527.98	530.20	530.04	0.16	36
L64	E + 32	S	3770.41	529.25	531.46	531.16	0.30	36
L64	E + 31	S	3810.09	526.92	529.16	528.89	0.27	36
L64	E + 30	S	3808.68	526.81	529.22	528.98	0.24	36
L64	E + 29	S	3837.26	524.94	527.49	527.33	0.16	36
L64	E + 28	S	3878.13	522.36	525.05	524.97	0.08	36
L64	E + 27	S	3915.03	520.22	522.97	522.82	0.15	36
L64	E + 26	S	3950.47	518.08	520.82	520.75	0.07	36
L64	E + 25	S	3982.39	516.18	518.85	518.87	-0.02	37
L64	E + 24	S	4005.52	514.86	517.43	517.50	-0.07	37
L64	E + 23	S	4019.96	514.11	516.53	516.64	-0.11	37
L64	E + 22	S	4037.00	513.16	515.51	515.63	-0.12	37
L64	E + 21	S	4048.33	512.53	514.80	514.95	-0.15	37
L64	E + 20	S	4060.47	511.86	514.10	514.23	-0.13	37
L64	E + 19	S	4081.55	510.54	512.80	512.96	-0.16	37
L64	E + 18	S	4095.53	509.78	512.03	512.12	-0.09	37
L64	E + 17	S	4105.04	509.30	511.52	511.55	-0.03	37
L64	E + 16	S	4120.70	508.35	510.58	510.60	-0.02	37
L64	E + 15	S	4132.71	507.62	509.87	509.87	-0.00	38
L64	E + 14	S	4144.98	506.91	509.19	509.13	0.06	38
L64	E + 13	S	4168.92	505.38	507.71	507.67	0.04	38
L64	E + 12	S	4191.23	504.00	506.36	506.31	0.05	38
L64	E + 11	S	4210.17	502.84	505.21	505.15	0.06	38
L64	E + 10	S	4225.00	502.01	504.36	504.24	0.12	38
L64	E + 9	S	4244.50	500.82	503.18	503.04	0.14	38
L64	E + 8	S	4262.07	499.78	502.13	501.95	0.18	38
L64	E + 7	S	4277.10	498.90	501.22	501.02	0.20	38
L64	E + 6	S	4290.97	498.06	500.36	500.16	0.20	38
L64	E + 5	S	4296.68	497.75	499.96	499.80	0.16	39
L64	E + 4	S	4298.34	497.75	499.89	499.70	0.19	39
L64	E + 3	S	4305.28	497.40	499.52	499.27	0.25	39
L64	E + 2	S	4308.30	497.32	499.40	499.08	0.32	39
L64	E + 1	S	4309.74	497.29	499.35	498.99	0.36	39
L64	E + 0		4310.84	497.34	499.39	498.92	0.47	39
L64	E + 1	N	4314.32	497.11	499.18	498.70	0.48	39
L64	E + 2	N	4313.09	497.30	499.37	498.78	0.59	39
L64	E + 3	N	4304.56	497.98	500.03	499.31	0.72	39
L64	E + 4	N	4305.14	497.93	499.99	499.27	0.72	39
L64	E + 5	N	4300.30	498.31	500.38	499.58	0.80	40
L64	E + 6	N	4293.40	498.82	500.91	500.01	0.90	40
L64	E + 7	N	4288.26	499.18	501.29	500.33	0.96	40
L64	E + 8	N	4283.12	499.51	501.65	500.65	1.00	40
L64	E + 9	N	4270.84	500.37	502.53	501.41	1.12	40
L64	E + 10	N	4269.75	500.47	502.65	501.48	1.17	40
L64	E + 11	N	4256.63	501.32	503.54	502.29	1.25	40

L64	E + 12	N	4246.18	502.08	504.40	502.93	1.47	407
L64	E + 13	N	4264.16	500.86	503.11	501.82	1.29	408
L64	E + 14	N	4265.97	500.82	503.10	501.71	1.39	409
L64	F + 15	N	4269.69	500.57	502.87	501.48	1.39	410
L64	E + 16	N	4275.99	500.16	502.49	501.09	1.40	411
L64	E + 17	N	4280.36	499.90	502.27	500.82	1.45	412
L64	F + 18	N	4280.00	499.90	502.31	500.84	1.47	413
L64	E + 19	N	4280.21	499.88	502.32	500.83	1.49	414
L64	E + 20	N	4270.30	500.55	503.05	501.44	1.61	415
L64	F + 21	N	4266.61	500.74	503.30	501.67	1.63	416
L64	E + 22	N	4272.30	500.27	502.87	501.32	1.55	417
L64	F + 23	N	4279.22	499.71	502.38	500.89	1.49	418
L64	E + 24	N	4277.79	499.75	502.49	500.98	1.51	419
L64	E + 25	N	4268.09	500.40	503.21	501.58	1.63	420
L64	F + 26	N	4267.79	500.28	503.18	501.60	1.58	421
L64	E + 27	N	4251.40	501.29	504.29	502.61	1.68	422
L64	E + 28	N	4243.41	501.62	504.72	503.10	1.62	423
L64	E + 29	N	4238.29	501.74	504.92	503.42	1.50	424
L64	E + 30	N	4247.74	500.95	504.21	502.84	1.37	425
L64	E + 31	N	4244.26	501.04	504.43	503.05	1.38	426
L64	F + 32	N	4231.41	501.62	505.13	503.84	1.29	427
L64	E + 33	N	4207.06	503.02	506.74	505.34	1.40	428
L64	E + 34	N	4201.35	503.09	506.94	505.69	1.25	429
L64	E + 35	N	4217.10	501.91	505.79	504.72	1.06	430
L64	E + 36	N	4221.85	501.40	505.39	504.43	0.96	431
L64	E + 37	N	4233.30	500.55	504.66	503.73	0.93	432
L64	E + 38	N	4247.29	499.50	503.79	502.86	0.93	433
L64	E + 39	N	4252.34	498.96	503.49	502.55	0.94	434
L64	E + 40	N	4227.17	500.49	505.12	504.11	1.01	435
L64	E + 41	N	4201.01	502.10	506.88	505.71	1.17	436
L64	E + 42	N	4181.67	503.23	508.15	506.90	1.25	437
L64	E + 43	N	4161.75	504.54	509.58	508.11	1.47	438
L64	E + 44	N	4141.81	505.78	510.95	509.32	1.63	439
L72	E + 41	S	3736.29	529.46	533.24	533.10	0.14	440
L72	E + 40	S	3742.20	529.39	532.59	532.76	-0.17	441
L72	E + 39	S	3708.26	532.19	534.78	534.68	0.10	442
L72	E + 38	S	3696.79	533.26	535.66	535.32	0.34	443
L72	E + 37	S	3699.27	533.33	535.48	535.18	0.30	444
L72	E + 36	S	3715.24	532.48	534.53	534.28	0.25	445
L72	E + 35	S	3734.87	531.24	533.25	533.18	0.07	446
L72	E + 34	S	3733.55	531.50	533.46	533.25	0.21	447
L72	E + 33	S	3738.72	531.13	533.12	532.96	0.16	448
L72	E + 32	S	3753.21	530.20	532.25	532.14	0.11	449
L72	E + 31	S	3771.01	529.13	531.28	531.13	0.15	450
L72	E + 30	S	3786.54	528.22	530.52	530.24	0.28	451
L72	E + 29	S	3815.45	526.36	528.78	528.59	0.19	452
L72	E + 28	S	3854.87	523.88	526.39	526.32	0.07	453
L72	E + 27	S	3884.88	522.02	524.55	524.58	-0.03	454
L72	E + 26	S	3907.17	520.60	523.09	523.28	-0.19	455
L72	E + 25	S	3929.58	519.32	521.78	521.97	-0.19	456
L72	E + 24	S	3963.28	517.27	519.71	520.00	-0.29	457
L72	E + 23	S	3981.64	516.24	518.60	518.91	-0.31	458
L72	E + 22	S	3995.90	515.42	517.76	518.07	-0.31	459
L72	E + 21	S	4009.20	514.68	516.94	517.28	-0.34	460
L72	E + 20	S	4020.37	514.05	516.27	516.62	-0.35	461
L72	E + 19	S	4032.91	513.33	515.53	515.87	-0.34	462
L72	E + 18	S	4048.41	512.38	514.58	514.95	-0.37	463
L72	E + 17	S	4059.91	511.75	513.93	514.26	-0.33	464
L72	E + 16	S	4073.40	510.98	513.15	513.45	-0.30	465
L72	E + 15	S	4086.76	510.27	512.42	512.65	-0.23	466

L72	E + 14	S	4098.21	509.64	511.76	511.96	-0.20	46
L72	F + 13	S	4108.60	509.13	511.24	511.33	-0.09	46
L72	E + 12	S	4120.01	508.53	510.64	510.64	-0.00	46
L72	E + 11	S	4130.28	508.00	510.11	510.02	0.09	47
L72	E + 10	S	4137.30	507.70	509.82	509.60	0.22	47
L72	E + 9	S	4145.26	507.29	509.45	509.11	0.34	47
L72	E + 8	S	4157.43	506.59	508.78	508.37	0.41	47
L72	E + 7	S	4174.57	505.56	507.77	507.33	0.44	47
L72	E + 6	S	4189.76	504.70	506.89	506.40	0.49	47
L72	E + 5	S	4206.60	503.75	505.95	505.37	0.58	47
L72	E + 4	S	4222.72	502.81	505.00	504.38	0.62	47
L72	E + 3	S	4235.56	502.05	504.21	503.59	0.62	47
L72	E + 2	S	4250.18	501.20	503.32	502.69	0.63	47
L72	E + 1	S	4265.63	500.24	502.32	501.73	0.59	48
L72	E + 0		4271.67	500.00	502.02	501.36	0.66	48
L72	E + 1	N	4279.42	499.55	501.55	500.87	0.68	48
L72	E + 2	N	4280.54	499.55	501.54	500.81	0.73	48
L72	E + 3	N	4283.40	499.40	501.39	500.63	0.76	48
L72	E + 4	N	4081.65	-0.0	516.15	512.96		48
L72	E + 5	N	4284.27	499.47	501.50	500.57	0.93	48
L72	E + 6	N	4294.87	498.74	500.79	499.91	0.88	48
L72	E + 7	N	4302.24	498.23	500.29	499.46	0.83	48
L72	E + 8	N	4310.34	497.74	499.83	498.95	0.88	48
L72	E + 9	N	4308.01	497.92	500.03	499.10	0.93	49
L72	E + 10	N	4312.28	497.60	499.73	498.83	0.90	49
L72	E + 11	N	4322.36	496.83	498.99	498.20	0.79	49
L72	E + 12	N	4323.56	496.79	498.98	498.12	0.86	49
L72	E + 13	N	4326.90	496.55	498.77	497.92	0.85	49
L72	E + 14	N	4325.14	496.74	499.00	498.03	0.97	49
L72	E + 15	N	4335.42	495.98	498.28	497.38	0.90	49
L72	E + 16	N	4342.77	495.49	497.83	496.92	0.91	49
L72	E + 17	N	4354.36	494.73	497.11	496.19	0.92	49
L72	E + 18	N	4366.56	493.89	496.32	495.43	0.89	49
L72	E + 19	N	4363.82	494.13	496.57	495.60	0.97	50
L72	E + 20	N	4359.23	494.46	496.96	495.89	1.07	50
L72	E + 21	N	4376.03	493.28	495.82	494.83	0.99	50
L72	E + 22	N	4393.70	492.06	494.66	493.71	0.95	50
L72	E + 23	N	4392.19	492.23	494.88	493.81	1.07	50
L72	E + 24	N	4403.63	491.52	494.22	493.08	1.14	50
L72	E + 25	N	4416.31	490.64	493.39	492.28	1.11	50
L72	E + 26	N	4411.38	491.00	493.82	492.59	1.23	50
L72	E + 27	N	4431.20	489.60	492.46	491.33	1.13	50
L72	E + 28	N	4441.60	488.90	491.82	490.67	1.15	50
L72	E + 29	N	4440.43	488.99	491.96	490.75	1.21	51
L72	E + 30	N	4453.09	488.36	491.40	489.94	1.46	51
L72	E + 31	N	4464.01	487.36	490.47	489.24	1.23	51
L72	E + 32	N	4471.11	486.86	490.06	488.79	1.27	51
L72	E + 33	N	4478.22	486.29	489.58	488.33	1.25	51
L72	E + 34	N	4484.76	485.75	489.14	487.91	1.23	51
L72	E + 35	N	4494.61	485.02	488.53	487.28	1.25	51
L72	E + 36	N	4501.00	484.60	488.02	486.87	1.15	51
L72	E + 37	N	4509.88	483.90	487.40	486.29	1.11	51
L72	E + 38	N	4515.80	483.49	487.08	485.91	1.17	51
L72	E + 39	N	4520.60	483.17	486.85	485.60	1.25	52
L72	E + 40	N	4522.44	483.02	486.79	485.48	1.31	52
L72	E + 41	N	4520.55	483.13	486.99	485.61	1.38	52
L72	E + 42	N	4518.31	483.23	487.18	485.75	1.43	52
L72	E + 43	N	4516.84	483.24	487.30	485.85	1.45	52
L72	E + 43	2N	4511.37	483.61	487.78	486.20	1.58	52
L72	E + 45	N	4505.34	483.98	488.29	486.59	1.70	52

L80	E + 44	S	3540.79	542.23	545.22	543.96	1.26	527
L80	E + 43	S	3555.95	541.47	544.14	543.13	1.01	528
L80	E + 42	S	3565.84	541.01	543.39	542.59	0.80	529
L80	E + 41	S	3575.63	540.46	542.69	542.05	0.64	530
L80	E + 40	S	3587.37	539.79	542.00	541.41	0.59	531
L80	E + 39	S	3609.10	538.47	540.72	540.21	0.51	532
L80	E + 38	S	3636.30	536.83	539.14	538.70	0.44	533
L80	E + 37	S	3669.61	534.75	537.14	536.84	0.29	534
L80	E + 36	S	3696.31	533.19	535.56	535.35	0.21	535
L80	E + 35	S	3708.92	532.57	534.80	534.64	0.16	536
L80	E + 34	S	3730.56	531.23	533.40	533.42	-0.02	537
L80	E + 33	S	3740.33	530.72	532.77	532.87	-0.10	538
L80	E + 32	S	3747.92	530.18	532.12	532.44	-0.32	539
L80	E + 31	S	3763.56	529.24	531.19	531.55	-0.36	540
L80	E + 30	S	3760.88	529.42	531.27	531.70	-0.43	541
L80	E + 29	S	3751.75	529.96	531.79	532.22	-0.43	542
L80	E + 28	S	3742.99	530.55	532.54	532.72	-0.18	543
L80	E + 27	S	3760.14	529.47	531.52	531.74	-0.23	544
L80	E + 26	S	3782.57	528.20	530.31	530.47	-0.16	545
L80	E + 25	S	3802.37	527.03	529.21	529.34	-0.13	546
L80	E + 24	S	3821.75	525.93	528.18	528.23	-0.05	547
L80	E + 23	S	3842.06	524.72	527.05	527.06	-0.01	548
L80	E + 22	S	3864.29	523.30	525.71	525.77	-0.06	549
L80	E + 21	S	3889.69	521.78	524.25	524.30	-0.05	550
L80	E + 20	S	3921.72	519.82	522.34	522.43	-0.09	551
L80	E + 19	S	3953.56	517.94	520.48	520.57	-0.09	552
L80	E + 18	S	3981.69	516.23	518.74	518.91	-0.17	553
L80	E + 17	S	4008.64	514.66	517.12	517.31	-0.20	554
L80	E + 16	S	4024.88	513.82	516.18	516.35	-0.17	555
L80	E + 15	S	4040.93	512.93	515.22	515.39	-0.17	556
L80	E + 14	S	4053.94	512.25	514.50	514.62	-0.12	557
L80	E + 13	S	4072.91	511.14	513.37	513.48	-0.11	558
L80	E + 12	S	4090.46	510.15	512.36	512.43	-0.07	559
L80	E + 11	S	4108.22	509.07	511.27	511.36	-0.09	560
L80	E + 10	S	4118.33	508.54	510.72	510.75	-0.03	561
L80	E + 9	S	4126.87	508.12	510.31	510.23	0.08	562
L80	E + 8	S	4141.27	507.31	509.57	509.36	0.21	563
L80	E + 7	S	4164.08	505.91	508.25	507.97	0.28	564
L80	E + 6	S	4187.49	504.39	506.80	506.54	0.26	565
L80	E + 5	S	4223.44	502.07	504.54	504.33	0.21	566
L80	E + 4	S	4248.95	500.56	503.03	502.76	0.27	567
L80	E + 3	S	4258.52	500.08	502.41	502.17	0.24	568
L80	E + 2	S	4268.16	499.62	501.85	501.57	0.28	569
L80	E + 1	S	4285.68	498.52	500.71	500.49	0.22	570
L80	E + 0		4298.42	497.81	499.96	499.69	0.27	571
L80	E + 1	N	4303.73	497.58	499.69	499.36	0.33	572
L80	E + 2	N	4313.13	496.98	499.09	498.78	0.31	573
L80	E + 3	N	4308.65	497.34	499.40	499.06	0.34	574
L80	E + 4	N	4081.65	-0.0	516.15	512.96		575
L80	E + 5	N	4309.38	497.45	499.50	499.01	0.49	576
L80	E + 6	N	4315.28	497.08	499.16	498.64	0.52	577
L80	E + 7	N	4327.41	496.30	498.42	497.88	0.54	578
L80	E + 8	N	4337.40	495.65	497.79	497.26	0.53	579
L80	E + 9	N	4344.97	495.21	497.37	496.78	0.59	580
L80	E + 10	N	4358.65	494.29	496.48	495.92	0.56	581
L80	E + 11	N	4365.53	493.90	496.10	495.49	0.61	582
L80	E + 12	N	4366.07	493.94	496.15	495.46	0.69	583
L80	E + 13	N	4367.17	493.83	496.08	495.39	0.69	584
L80	E + 14	N	4377.51	493.12	495.41	494.74	0.67	585
L80	E + 15	N	4391.86	492.08	494.41	493.83	0.58	586

L80	E + 16	N	4410.05	490.83	493.20	492.68	0.52	587
L80	E + 17	N	4407.98	490.96	493.34	492.81	0.53	588
L80	E + 18	N	4423.89	489.89	492.30	491.80	0.50	589
L80	E + 19	N	4419.49	490.19	492.61	492.08	0.53	590
L80	E + 20	N	4427.27	489.72	492.18	491.58	0.60	591
L80	E + 21	N	4433.93	489.28	491.80	491.16	0.64	592
L80	E + 22	N	4440.06	488.88	491.48	490.77	0.71	593
L80	E + 23	N	4457.29	487.68	490.34	489.67	0.67	594
L80	E + 24	N	4476.12	486.39	489.09	488.46	0.63	595
L80	E + 25	N	4487.36	485.73	488.47	487.74	0.73	596
L80	E + 26	N	4499.65	484.89	487.66	486.95	0.71	597
L80	E + 27	N	4517.62	483.69	486.50	485.80	0.70	598
L80	E + 28	N	4521.46	483.50	486.30	485.55	0.75	599
L80	E + 29	N	4528.05	483.07	485.88	485.12	0.76	600
L80	E + 30	N	4538.57	482.29	485.12	484.44	0.68	601
L80	E + 31	N	4538.77	482.32	485.17	484.43	0.74	602
L80	E + 32	N	4544.65	481.88	484.76	484.05	0.71	603
L80	E + 33	N	4552.93	481.33	484.25	483.51	0.74	604
L80	E + 34	N	4559.13	480.84	483.79	483.11	0.68	605
L80	E + 35	N	4562.70	480.67	483.67	482.88	0.79	606
L80	E + 36	N	4567.99	480.30	483.34	482.53	0.81	607
L80	E + 37	N	4578.89	479.58	482.68	481.82	0.86	608
L80	E + 38	N	4590.50	478.89	482.05	481.07	0.98	609
L80	E + 39	N	4600.92	478.16	481.40	480.39	1.01	610
L80	E + 40	N	4608.52	477.68	480.98	479.89	1.09	611
L80	E + 41	N	4610.13	477.55	480.91	479.78	1.13	612
L80	E + 42	N	4611.73	477.39	480.82	479.68	1.14	613
L80	E + 43	N	4612.16	477.28	480.81	479.65	1.16	614
L80	E + 44	N	4605.66	477.64	481.27	480.08	1.19	615
L80	E + 45	N	4598.53	478.13	481.89	480.54	1.35	616
L88	E + 45	S	3452.07	547.46	549.78	548.76	1.02	617
L88	E + 44	S	3461.35	546.93	549.12	548.26	0.86	618
L88	E + 43	S	3476.25	546.03	548.09	547.46	0.63	619
L88	E + 42	S	3494.88	544.85	546.83	546.45	0.38	620
L88	E + 41	S	3516.92	543.53	545.46	545.26	0.20	621
L88	E + 40	S	3526.49	542.97	544.81	544.74	0.07	622
L88	E + 39	S	3529.05	542.87	544.65	544.60	0.05	623
L88	E + 38	S	3530.87	542.67	544.47	544.50	-0.03	624
L88	E + 37	S	3540.32	542.32	544.16	543.98	0.18	625
L88	E + 36	S	3559.64	541.24	543.09	542.93	0.16	626
L88	E + 35	S	3576.81	540.13	542.00	541.99	0.01	627
L88	E + 34	S	3584.92	539.55	541.47	541.54	-0.07	628
L88	E + 33	S	3599.98	538.63	540.61	540.71	-0.10	629
L88	E + 32	S	3618.09	537.61	539.66	539.71	-0.05	630
L88	E + 31	S	3642.46	536.21	538.29	538.36	-0.07	631
L88	E + 30	S	3664.98	534.92	537.03	537.10	-0.07	632
L88	E + 29	S	3689.52	533.40	535.51	535.73	-0.22	633
L88	E + 28	S	3721.73	531.55	533.67	533.92	-0.25	634
L88	E + 27	S	3732.63	531.08	533.17	533.30	-0.13	635
L88	E + 26	S	3745.70	530.28	532.41	532.56	-0.15	636
L88	E + 25	S	3771.03	528.72	530.92	531.13	-0.21	637
L88	E + 24	S	3798.28	527.06	529.31	529.57	-0.26	638
L88	E + 23	S	3831.61	524.99	527.27	527.66	-0.39	639
L88	E + 22	S	3857.68	523.53	525.80	526.16	-0.36	640
L88	E + 21	S	3866.98	523.12	525.30	525.62	-0.32	641
L88	E + 20	S	3887.70	521.99	524.16	524.42	-0.26	642
L88	E + 19	S	3905.98	520.92	523.11	523.35	-0.24	643
L88	E + 18	S	3923.38	519.85	522.06	522.34	-0.28	644
L88	E + 17	S	3942.65	518.75	521.00	521.21	-0.21	645
L88	E + 16	S	3963.89	517.48	519.77	519.96	-0.19	646

L88	E + 15	S	3980.73	516.48	518.80	518.97	-0.17	647
L88	E + 14	S	4006.70	514.88	517.25	517.43	-0.18	648
L88	E + 13	S	4031.07	513.45	515.85	515.98	-0.13	649
L88	E + 12	S	4058.41	511.76	514.17	514.35	-0.18	650
L88	E + 11	S	4076.16	510.71	513.09	513.29	-0.20	651
L88	E + 10	S	4095.82	509.50	511.85	512.10	-0.25	652
L88	E + 9	S	4114.08	508.36	510.71	511.00	-0.29	653
L88	E + 8	S	4133.85	507.10	509.44	509.81	-0.37	654
L88	E + 7	S	4150.86	506.15	508.48	508.77	-0.29	655
L88	E + 6	S	4160.69	505.65	507.93	508.18	-0.25	656
L88	E + 5	S	4174.68	504.81	507.10	507.32	-0.22	657
L88	E + 4	S	4179.53	504.58	506.84	507.03	-0.19	658
L88	E + 3	S	4183.73	504.40	506.70	506.77	-0.07	659
L88	E + 2	S	4202.62	503.17	505.51	505.61	-0.10	660
L88	E + 1	S	4224.34	501.77	504.17	504.28	-0.11	661
L88	E + 0		4242.86	500.67	503.08	503.14	-0.06	662
L88	E + 1	N	4252.27	500.11	502.51	502.56	-0.05	663
L88	E + 2	N	4246.36	500.54	502.85	502.92	-0.07	664
L88	E + 3	N	4250.41	500.41	502.72	502.67	0.05	665
L88	E + 4	N	4266.20	499.42	501.76	501.70	0.06	666
L88	E + 5	N	4278.17	498.67	501.04	500.95	0.09	667
L88	E + 6	N	4289.88	498.03	500.43	500.22	0.20	668
L88	E + 7	N	4311.87	496.67	499.10	498.85	0.25	669
L88	E + 8	N	4322.84	496.01	498.44	498.17	0.27	670
L88	E + 9	N	4335.41	495.24	497.68	497.38	0.30	671
L88	E + 10	N	4350.50	494.35	496.81	496.44	0.37	672
L88	E + 11	N	4368.63	493.17	495.67	495.30	0.37	673
L88	E + 12	N	4382.78	492.34	494.87	494.40	0.47	674
L88	E + 13	N	4400.09	491.27	493.83	493.31	0.52	675
L88	E + 14	N	4421.18	489.94	492.52	491.97	0.55	676
L88	E + 15	N	4444.58	488.45	491.05	490.48	0.57	677
L88	E + 16	N	4454.05	487.81	490.38	489.88	0.50	678
L88	E + 17	N	4462.40	487.31	489.85	489.34	0.51	679
L88	E + 18	N	4471.29	486.68	489.20	488.77	0.43	680
L88	E + 19	N	4479.26	486.16	488.71	488.26	0.45	681
L88	E + 20	N	4482.45	485.89	488.51	488.06	0.45	682
L88	E + 21	N	4499.54	484.78	487.47	486.96	0.51	683
L88	E + 22	N	4521.62	483.23	486.00	485.54	0.46	684
L88	E + 23	N	4541.77	481.95	484.77	484.23	0.54	685
L88	E + 24	N	4564.36	480.39	483.25	482.77	0.48	686
L88	E + 25	N	4583.01	479.20	482.06	481.55	0.51	687
L88	E + 26	N	4598.68	478.23	481.07	480.53	0.54	688
L88	E + 27	N	4609.33	477.61	480.43	479.84	0.59	689
L88	E + 28	N	4624.54	476.54	479.35	478.84	0.51	690
L88	E + 29	N	4630.57	476.18	478.96	478.44	0.52	691
L88	E + 30	N	4639.41	475.61	478.39	477.86	0.53	692
L88	E + 31	N	4643.74	475.35	478.14	477.58	0.56	693
L88	E + 32	N	4657.13	474.38	477.19	476.70	0.49	694
L88	E + 33	N	4664.36	473.90	476.72	476.22	0.50	695
L88	E + 34	N	4667.38	473.73	476.55	476.02	0.53	696
L88	E + 35	N	4672.25	473.40	476.24	475.70	0.54	697
L88	E + 36	N	4676.30	473.11	475.98	475.43	0.55	698
L88	E + 37	N	4684.43	472.56	475.46	474.89	0.57	699
L88	E + 38	N	4695.15	471.88	474.82	474.18	0.64	700
L88	E + 39	N	4703.99	471.28	474.26	473.59	0.67	701
L88	E + 40	N	4710.18	470.92	473.93	473.18	0.75	702
L88	E + 41	N	4717.48	470.44	473.50	472.70	0.80	703
L88	E + 42	N	4722.88	470.10	473.23	472.34	0.89	704
L88	E + 43	N	4722.44	470.11	473.31	472.37	0.94	705
L88	E + 44	N	4721.23	470.08	473.36	472.45	0.91	706

L88	E + 45	N	4720.34	470.05	473.45	472.51	0.94	707
L96	E + 45	S	4081.65	-0.0	516.15	512.96	3.19	708
L96	E + 44	S	3386.78	550.69	552.82	552.24	0.58	709
L96	E + 43	S	3411.90	549.23	551.37	550.91	0.46	710
L96	E + 42	S	3436.10	547.80	549.92	549.62	0.30	711
L96	E + 41	S	3459.52	546.47	548.59	548.36	0.23	712
L96	E + 40	S	3483.93	544.94	547.07	547.05	0.02	713
L96	E + 39	S	3515.26	543.03	545.18	545.35	-0.17	714
L96	E + 38	S	3558.28	540.30	542.46	543.00	-0.54	715
L96	E + 37	S	3592.85	538.28	540.47	541.10	-0.63	716
L96	E + 36	S	3614.69	537.10	539.21	539.90	-0.69	717
L96	E + 35	S	3625.77	536.62	538.60	539.29	-0.69	718
L96	E + 34	S	3634.48	536.24	538.08	538.80	-0.72	719
L96	E + 33	S	3638.35	536.24	537.99	538.59	-0.60	720
L96	E + 32	S	3646.17	535.80	537.55	538.15	-0.60	721
L96	E + 31	S	3658.38	535.12	536.94	537.47	-0.53	722
L96	E + 30	S	3679.33	533.85	535.78	536.30	-0.52	723
L96	E + 29	S	3702.97	532.46	534.50	534.98	-0.48	724
L96	E + 28	S	3733.68	530.59	532.73	533.24	-0.51	725
L96	E + 27	S	3761.31	528.87	531.07	531.68	-0.61	726
L96	E + 26	S	3783.28	527.60	529.80	530.43	-0.63	727
L96	E + 25	S	3796.12	526.93	529.04	529.69	-0.65	728
L96	E + 24	S	3804.59	526.51	528.55	529.21	-0.66	729
L96	E + 23	S	3819.66	525.66	527.70	528.35	-0.65	730
L96	E + 22	S	3843.67	524.20	526.28	526.96	-0.68	731
L96	E + 21	S	3857.82	523.36	525.45	526.15	-0.70	732
L96	E + 20	S	3866.99	522.86	524.95	525.62	-0.67	733
L96	E + 19	S	3881.55	521.96	524.08	524.77	-0.69	734
L96	E + 18	S	3903.73	520.60	522.79	523.48	-0.69	735
L96	E + 17	S	3916.86	519.83	522.04	522.72	-0.68	736
L96	E + 16	S	3938.81	518.55	520.82	521.43	-0.61	737
L96	E + 15	S	3948.06	518.04	520.34	520.89	-0.55	738
L96	E + 14	S	3970.78	516.65	519.02	519.55	-0.53	739
L96	E + 13	S	3987.39	515.66	518.08	518.57	-0.49	740
L96	E + 12	S	4003.11	514.65	517.07	517.64	-0.57	741
L96	E + 11	S	4021.12	513.57	516.01	516.57	-0.56	742
L96	E + 10	S	4030.85	512.95	515.35	515.99	-0.64	743
L96	E + 9	S	4040.31	512.40	514.78	515.43	-0.65	744
L96	E + 8	S	4047.23	512.00	514.36	515.02	-0.66	745
L96	E + 7	S	4063.85	510.98	513.36	514.02	-0.66	746
L96	E + 6	S	4068.57	510.72	513.08	513.74	-0.66	747
L96	E + 5	S	4068.92	510.74	513.06	513.72	-0.66	748
L96	E + 4	S	4064.54	510.96	513.26	513.98	-0.72	749
L96	E + 3	S	4067.94	510.77	513.10	513.78	-0.68	750
L96	E + 2	S	4078.02	510.07	512.45	513.17	-0.72	751
L96	E + 1	S	4075.25	510.23	512.70	513.34	-0.64	752
L96	E + 0		4065.80	510.75	513.40	513.91	-0.51	753
L96	E + 1	N	4079.48	509.88	512.71	513.09	-0.38	754
L96	E + 2	N	4109.25	508.10	511.04	511.29	-0.25	755
L96	E + 3	N	4128.88	506.90	509.97	510.11	-0.14	756
L96	E + 4	N	4155.05	505.20	508.40	508.52	-0.12	757
L96	E + 5	N	4188.17	503.17	506.47	506.50	-0.03	758
L96	E + 6	N	4233.13	500.39	503.72	503.74	-0.02	759
L96	E + 7	N	4270.26	498.21	501.52	501.44	0.08	760
L96	E + 8	N	4291.14	497.08	500.24	500.15	0.09	761
L96	E + 9	N	4318.39	495.38	498.48	498.45	0.03	762
L96	E + 10	N	4337.04	494.29	497.31	497.28	0.03	763
L96	E + 11	N	4357.57	493.11	496.08	495.99	0.09	764
L96	E + 12	N	4382.14	491.66	494.62	494.44	0.18	765
L96	E + 13	N	4409.12	489.91	492.88	492.74	0.14	766

L96	E + 14	N	4429.87	488.64	491.59	491.42	0.17	767
L96	E + 15	N	4449.76	487.42	490.35	490.15	0.20	768
L96	E + 16	N	4472.06	486.07	488.98	488.72	0.26	769
L96	E + 17	N	4486.36	485.06	487.93	487.81	0.12	770
L96	E + 18	N	4507.92	483.72	486.58	486.42	0.16	771
L96	E + 19	N	4518.75	483.08	485.92	485.72	0.20	772
L96	E + 20	N	4530.68	482.30	485.16	484.95	0.21	773
L96	E + 21	N	4547.09	481.31	484.20	483.89	0.31	774
L96	E + 22	N	4567.80	479.92	482.86	482.54	0.31	775
L96	E + 23	N	4583.21	479.01	482.00	481.54	0.46	776
L96	E + 24	N	4603.22	477.64	480.67	480.24	0.43	777
L96	E + 25	N	4626.38	476.02	479.09	478.72	0.37	778
L96	E + 26	N	4647.02	474.74	477.82	477.36	0.46	779
L96	E + 27	N	4667.85	473.38	476.47	475.99	0.48	780
L96	E + 28	N	4686.87	472.18	475.27	474.73	0.54	781
L96	E + 29	N	4707.46	470.70	473.79	473.36	0.43	782
L96	E + 30	N	4724.01	469.67	472.74	472.26	0.48	783
L96	E + 31	N	4742.27	468.43	471.48	471.04	0.44	784
L96	E + 32	N	4766.10	466.79	469.83	469.45	0.38	785
L96	E + 33	N	4782.58	465.68	468.68	468.34	0.34	786
L96	E + 34	N	4792.89	465.01	467.96	467.65	0.31	787
L96	E + 35	N	4802.12	464.48	467.40	467.03	0.37	788
L96	E + 36	N	4808.79	464.07	466.97	466.58	0.39	789
L96	E + 37	N	4815.04	463.73	466.63	466.16	0.47	790
L96	E + 38	N	4823.91	463.16	466.08	465.56	0.52	791
L96	E + 39	N	4831.99	462.59	465.55	465.01	0.54	792
L96	E + 40	N	4834.85	462.38	465.37	464.82	0.55	793
L96	E + 41	N	4832.57	462.57	465.59	464.97	0.62	794
L96	E + 42	N	4830.96	462.75	465.84	465.08	0.76	795
L96	E + 43	N	4831.82	462.84	466.05	465.02	1.03	796
L96	E + 44	N	4833.71	462.68	466.13	464.89	1.24	797
L96	E + 4463	N	4834.28	462.65	466.42	464.85	1.57	798
L104	E + 44	S	3313.38	553.74	555.84	555.10	-0.26	799
L104	E + 43	S	3320.57	553.30	555.51	555.73	-0.22	800
L104	E + 42	S	3333.12	552.63	555.04	555.07	-0.03	801
L104	E + 41	S	3363.40	550.89	553.31	553.48	-0.17	802
L104	E + 40	S	3395.22	549.13	551.40	551.79	-0.39	803
L104	E + 39	S	3416.49	547.92	550.09	550.66	-0.57	804
L104	E + 38	S	3439.99	546.63	548.70	549.41	-0.71	805
L104	E + 37	S	3454.93	545.67	547.66	548.61	-0.95	806
L104	E + 36	S	3476.30	544.49	546.41	547.46	-1.05	807
L104	E + 35	S	3493.88	543.40	545.23	546.51	-1.28	808
L104	E + 34	S	3508.04	542.59	544.34	545.74	-1.40	809
L104	E + 33	S	3524.32	541.58	543.29	544.86	-1.57	810
L104	E + 32	S	3538.90	540.73	542.43	544.06	-1.63	811
L104	E + 31	S	3546.81	540.39	542.12	543.63	-1.51	812
L104	E + 30	S	3560.98	539.69	541.47	542.86	-1.39	813
L104	E + 29	S	3572.03	539.18	541.02	542.25	-1.23	814
L104	E + 28	S	3587.61	538.31	540.21	541.39	-1.18	815
L104	E + 27	S	3611.89	536.95	538.88	540.05	-1.17	816
L104	E + 26	S	3636.65	535.53	537.47	538.68	-1.21	817
L104	E + 25	S	3659.72	534.16	536.10	537.40	-1.30	818
L104	E + 24	S	3681.81	532.89	534.82	536.16	-1.34	819
L104	E + 23	S	3698.71	531.91	533.80	535.21	-1.42	820
L104	E + 22	S	3709.45	531.29	533.13	534.61	-1.48	821
L104	E + 21	S	3725.80	530.33	532.14	533.69	-1.55	822
L104	E + 20	S	3720.75	530.59	532.36	533.97	-1.61	823
L104	E + 19	S	3722.86	530.41	532.19	533.85	-1.67	824
L104	E + 18	S	3722.48	530.46	532.30	533.88	-1.58	825
L104	E + 17	S	3733.07	529.78	531.67	533.28	-1.61	826

L104 E + 16 S	3740.99	529.26	531.19	532.83	-1.64	827
L104 E + 15 S	3746.48	528.93	530.93	532.52	-1.59	828
L104 E + 14 S	3753.12	528.45	530.52	532.14	-1.62	829
L104 E + 13 S	3761.19	527.91	530.06	531.69	-1.63	830
L104 E + 12 S	3773.06	527.15	529.36	531.01	-1.65	831
L104 E + 11 S	3784.10	526.56	528.83	530.38	-1.55	832
L104 E + 10 S	3797.05	525.80	528.13	529.64	-1.51	833
L104 E + 9 S	3809.54	525.05	527.42	528.93	-1.51	834
L104 E + 8 S	3811.36	524.96	527.48	528.82	-1.34	835
L104 E + 7 S	3825.79	524.04	526.73	527.99	-1.26	836
L104 E + 6 S	3841.61	522.98	525.84	527.08	-1.24	837
L104 E + 5 S	3853.08	522.25	525.41	526.42	-1.01	838
L104 E + 4 S	3900.92	519.46	522.66	523.65	-0.99	839
L104 E + 3 S	3939.04	517.34	520.46	521.42	-0.96	840
L104 E + 2 S	3971.91	515.45	518.47	519.49	-1.02	841
L104 E + 1 S	3997.27	513.96	516.89	517.99	-1.10	842
L104 E + 0	4020.75	512.50	515.42	516.60	-1.18	843
L104 E + 1 N	4049.08	510.89	513.93	514.91	-0.98	844
L104 E + 2 N	4084.36	508.66	511.92	512.79	-0.87	845
L104 E + 3 N	4119.98	506.52	509.99	510.65	-0.66	846
L104 E + 4 N	4156.83	504.31	507.91	508.41	-0.50	847
L104 E + 5 N	4196.45	501.94	505.58	505.99	-0.41	848
L104 E + 6 N	4229.27	500.04	503.64	503.98	-0.34	849
L104 E + 7 N	4260.62	498.24	501.76	502.04	-0.28	850
L104 E + 8 N	4292.79	496.24	499.69	500.04	-0.35	851
L104 E + 9 N	4319.73	494.65	498.02	498.36	-0.34	852
L104 E + 10 N	4346.18	493.10	496.42	496.71	-0.29	853
L104 E + 11 N	4367.11	491.82	495.09	495.39	-0.30	854
L104 E + 12 N	4389.32	490.48	493.76	493.99	-0.23	855
L104 E + 13 N	4412.67	489.05	492.39	492.51	-0.12	856
L104 E + 14 N	4448.46	486.82	490.23	490.23	-0.00	857
L104 E + 15 N	4477.43	485.07	488.49	488.38	0.11	858
L104 E + 16 N	4500.57	483.68	487.04	486.89	0.15	859
L104 E + 17 N	4528.04	482.00	485.28	485.12	0.16	860
L104 E + 18 N	4552.08	480.52	483.73	483.57	0.16	861
L104 E + 19 N	4565.03	479.75	482.92	482.73	0.19	862
L104 E + 20 N	4581.80	478.70	481.91	481.63	0.28	863
L104 E + 21 N	4603.85	477.19	480.47	480.19	0.28	864
L104 E + 22 N	4626.73	475.74	479.11	478.70	0.41	865
L104 E + 23 N	4652.05	473.99	477.53	477.03	0.50	866
L104 E + 24 N	4676.28	472.25	475.96	475.43	0.53	867
L104 E + 25 N	4712.26	469.69	473.53	473.04	0.49	868
L104 E + 26 N	4750.33	467.11	471.07	470.51	0.56	869
L104 E + 27 N	4785.18	464.70	468.77	468.17	0.60	870
L104 E + 28 N	4081.65	-0.0	516.15	512.96		871
L104 E + 29 N	4872.59	458.49	462.57	462.25	0.32	872
L104 E + 30 N	4910.67	456.01	460.04	459.65	0.39	873
L104 E + 31 N	4945.18	453.63	457.68	457.28	0.40	874
L104 E + 32 N	4962.60	452.55	456.39	456.08	0.31	875
L104 E + 33 N	4965.48	452.67	456.20	455.88	0.32	876
L104 E + 34 N	4957.74	453.55	456.81	456.41	0.40	877
L104 E + 35 N	4955.12	453.88	456.99	456.59	0.40	878
L104 E + 36 N	4956.34	453.96	456.97	456.51	0.46	879
L104 E + 37 N	4957.21	453.95	456.92	456.45	0.47	880
L104 E + 38 N	4958.82	453.94	456.90	456.34	0.56	881
L104 E + 39 N	4955.99	454.20	457.16	456.53	0.63	882
L104 E + 40 N	4951.24	454.58	457.55	456.86	0.69	883
L104 E + 41 N	4949.84	454.59	457.62	456.96	0.66	884
L104 E + 42 N	4942.36	455.12	458.23	457.47	0.76	885
L104 E + 43 N	4932.91	455.84	459.05	458.12	0.93	886

L104 E + 44 N	4925.58	456.32	459.99	458.63	1.36	887
L104 E + 4515N	4919.30	456.66	460.87	459.06	1.81	888
L112 E + 44 S	3593.37	536.80	539.58	541.08	-1.50	889
L112 E + 43 S	3601.98	536.43	538.96	540.60	-1.64	890
L112 E + 42 S	3605.07	536.27	538.59	540.43	-1.84	891
L112 E + 41 S	3608.70	536.14	538.38	540.23	-1.85	892
L112 E + 40 S	3595.42	536.92	539.03	540.96	-1.93	893
L112 E + 39 S	3592.07	537.02	539.13	541.15	-2.02	894
L112 E + 38 S	3604.28	536.39	538.48	540.47	-1.99	895
L112 E + 37 S	3610.59	535.98	538.05	540.13	-2.08	896
L112 E + 36 S	3614.67	535.76	537.80	539.90	-2.10	897
L112 E + 35 S	3617.98	535.56	537.57	539.72	-2.15	898
L112 E + 34 S	3621.55	535.32	537.28	539.52	-2.24	899
L112 E + 33 S	3624.17	535.03	536.94	539.37	-2.43	900
L112 E + 32 S	3624.32	535.17	537.03	539.37	-2.34	901
L112 E + 31 S	3624.07	535.22	537.04	539.38	-2.34	902
L112 E + 30 S	3621.13	535.56	537.38	539.54	-2.16	903
L112 E + 29 S	3622.73	535.37	537.19	539.45	-2.26	904
L112 E + 28 S	3620.86	535.50	537.36	539.56	-2.20	905
L112 E + 27 S	3621.53	535.57	537.48	539.52	-2.04	906
L112 E + 26 S	3620.46	535.63	537.60	539.58	-1.98	907
L112 E + 25 S	3622.20	535.44	537.48	539.48	-2.00	908
L112 E + 24 S	3624.49	535.32	537.44	539.36	-1.92	909
L112 E + 23 S	3634.52	534.70	536.82	538.80	-1.98	910
L112 E + 22 S	3643.75	534.15	536.28	538.29	-2.01	911
L112 E + 21 S	3651.56	533.78	535.95	537.85	-1.90	912
L112 E + 20 S	3662.32	533.25	535.41	537.25	-1.84	913
L112 E + 19 S	3673.01	532.53	534.70	536.66	-1.96	914
L112 E + 18 S	3687.88	531.67	533.82	535.82	-2.00	915
L112 E + 17 S	3704.85	530.60	532.72	534.87	-2.15	916
L112 E + 16 S	3717.24	529.97	532.10	534.17	-2.07	917
L112 E + 15 S	3730.28	529.13	531.28	533.44	-2.16	918
L112 E + 14 S	3743.89	528.25	530.42	532.67	-2.25	919
L112 E + 13 S	3757.29	527.54	529.74	531.91	-2.17	920
L112 E + 12 S	3773.89	526.60	528.82	530.96	-2.14	921
L112 E + 11 S	3790.37	525.55	527.77	530.02	-2.25	922
L112 E + 10 S	3803.80	524.80	527.06	529.26	-2.20	923
L112 E + 9 S	3809.97	524.55	526.91	528.90	-1.99	924
L112 E + 8 S	3827.46	523.53	525.93	527.90	-1.97	925
L112 E + 7 S	3845.23	522.34	524.80	526.87	-2.07	926
L112 E + 6 S	3862.94	521.24	523.78	525.85	-2.07	927
L112 E + 5 S	3871.78	520.65	523.39	525.34	-1.95	928
L112 E + 4 S	3899.64	518.97	521.75	523.72	-1.97	929
L112 E + 3 S	3930.33	517.14	519.93	521.93	-2.00	930
L112 E + 2 S	3955.07	515.54	518.34	520.48	-2.14	931
L112 E + 1 S	3977.93	514.21	517.04	519.13	-2.09	932
L112 E + 0	4006.96	512.54	515.43	517.41	-1.98	933
L112 E + 1 N	4036.77	510.82	513.87	515.64	-1.77	934
L112 E + 2 N	4086.30	507.73	511.04	512.68	-1.64	935
L112 E + 3 N	4123.92	505.57	509.04	510.41	-1.37	936
L112 E + 4 N	4162.23	503.26	506.80	508.08	-1.28	937
L112 E + 5 N	4194.62	501.28	504.83	506.10	-1.27	938
L112 E + 6 N	4226.74	499.42	502.96	504.13	-1.17	939
L112 E + 7 N	4265.06	497.11	500.65	501.77	-1.12	940
L112 E + 8 N	4300.02	495.03	498.55	499.59	-1.04	941
L112 E + 9 N	4332.86	493.07	496.55	497.54	-0.99	942
L112 E + 10 N	4353.44	491.93	495.33	496.25	-0.92	943
L112 E + 11 N	4383.24	490.29	493.70	494.37	-0.67	944
L112 E + 12 N	4418.40	487.95	491.41	492.15	-0.74	945
L112 E + 13 N	4440.47	486.63	490.05	490.74	-0.69	946

L112 E + 14 N	4467.37	484.98	488.41	489.02	-0.61	947
L112 E + 15 N	4493.30	483.41	486.85	487.36	-0.51	948
L112 E + 16 N	4522.68	481.60	485.06	485.47	-0.41	949
L112 E + 17 N	4548.29	480.07	483.52	483.81	-0.29	950
L112 E + 18 N	4556.41	479.67	483.00	483.29	-0.29	951
L112 E + 19 N	4573.32	478.59	481.97	482.19	-0.22	952
L112 E + 20 N	4599.35	476.85	480.28	480.49	-0.21	953
L112 E + 21 N	4629.74	474.95	478.40	478.50	-0.10	954
L112 E + 22 N	4656.00	473.28	476.77	476.77	0.0	955
L112 E + 23 N	4675.24	472.04	475.61	475.50	0.11	956
L112 E + 24 N	4707.01	469.96	473.61	473.39	0.22	957
L112 E + 25 N	4738.08	467.86	471.61	471.32	0.29	958
L112 E + 26 N	4780.12	464.96	468.77	468.51	0.26	959
L112 E + 27 N	4812.54	462.83	466.66	466.32	0.34	960
L112 E + 28 N	4846.83	460.50	464.35	464.00	0.35	961
L112 E + 29 N	4886.38	457.82	461.64	461.31	0.33	962
L112 E + 30 N	4922.62	455.39	459.10	458.83	0.27	963
L112 E + 31 N	4954.71	453.26	456.84	456.62	0.22	964
L112 E + 32 N	4081.65	-0.0	516.15	512.96		965
L112 E + 33 N	4081.65	-0.0	516.15	512.96		966
L112 E + 34 N	4986.04	451.64	454.71	454.46	0.25	967
L112 E + 35 N	4968.42	453.26	456.11	455.67	0.44	968
L112 E + 36 N	4960.37	454.03	456.79	456.23	0.56	969
L112 E + 37 N	4956.21	454.41	457.11	456.52	0.59	970
L112 E + 38 N	4953.35	454.71	457.39	456.72	0.67	971
L112 E + 39 N	4948.93	455.11	457.79	457.02	0.77	972
L112 E + 40 N	4942.70	455.65	458.34	457.45	0.89	973
L112 E + 41 N	4937.12	456.05	458.78	457.83	0.95	974
L112 E + 42 N	4927.28	456.74	459.50	458.51	0.99	975
L112 E + 43 N	4920.95	457.15	459.99	458.94	1.05	976
L112 E + 44 N	4913.91	457.68	460.63	459.43	1.20	977
L112 E + 4556N	4896.36	458.74	461.80	460.63	1.17	978
L120 E + 44 S	4081.65	-0.0	516.15	512.96	3.19	979
L120 E + 4318S	3645.49	533.66	535.70	538.19	-2.49	980
L120 E + 42 S	3669.03	532.30	534.29	536.88	-2.59	981
L120 E + 41 S	3686.41	531.27	533.26	535.91	-2.65	982
L120 E + 40 S	3717.83	529.19	531.28	534.14	-2.86	983
L120 E + 39 S	3735.41	528.29	530.40	533.15	-2.75	984
L120 E + 38 S	3749.86	527.39	529.49	532.33	-2.84	985
L120 E + 37 S	3755.02	527.17	529.20	532.04	-2.84	986
L120 E + 36 S	3769.81	526.25	528.29	531.19	-2.91	987
L120 E + 35 S	3772.64	526.22	528.21	531.03	-2.82	988
L120 E + 34 S	3772.73	526.30	528.23	531.03	-2.80	989
L120 E + 33 S	3765.26	526.76	528.48	531.45	-2.97	990
L120 E + 32 S	3760.14	527.09	528.77	531.74	-2.98	991
L120 E + 31 S	3762.84	526.85	528.49	531.59	-3.10	992
L120 E + 30 S	3752.04	527.77	529.40	532.20	-2.80	993
L120 E + 29 S	3757.86	527.50	529.14	531.87	-2.73	994
L120 E + 28 S	3771.48	526.59	528.24	531.10	-2.86	995
L120 E + 27 S	3788.04	525.44	527.17	530.16	-2.99	996
L120 E + 26 S	3803.03	524.53	526.32	529.30	-2.98	997
L120 E + 25 S	3817.21	523.70	525.52	528.49	-2.97	998
L120 E + 24 S	3823.54	523.39	525.23	528.12	-2.89	999
L120 E + 23 S	3830.73	522.90	524.78	527.71	-2.93	1000
L120 E + 22 S	3844.40	521.98	523.90	526.92	-3.02	1001
L120 E + 21 S	3853.55	521.44	523.39	526.39	-3.00	1002
L120 E + 20 S	3861.06	520.97	522.93	525.96	-3.03	1003
L120 E + 19 S	3859.42	521.13	522.93	526.06	-3.13	1004
L120 E + 18 S	3850.26	521.80	523.69	526.58	-2.89	1005
L120 E + 17 S	3871.87	520.59	522.48	525.33	-2.85	1006

L120 E + 16 S	3884.59	519.90	521.83	524.60	-2.77	1007
L120 E + 15 S	3890.61	519.58	521.56	524.25	-2.69	1008
L120 E + 14 S	3903.99	518.66	520.69	523.47	-2.78	1009
L120 E + 13 S	3913.46	518.06	520.16	522.92	-2.76	1010
L120 E + 12 S	3929.75	517.00	519.15	521.96	-2.81	1011
L120 E + 11 S	3949.98	515.74	517.93	520.78	-2.85	1012
L120 E + 10 S	3964.79	514.90	517.14	519.91	-2.77	1013
L120 E + 9 S	3982.34	513.91	516.18	518.87	-2.69	1014
L120 E + 8 S	4002.68	512.81	515.10	517.67	-2.57	1015
L120 E + 7 S	4019.76	511.75	514.04	516.65	-2.61	1016
L120 E + 6 S	4030.99	511.13	513.35	515.99	-2.64	1017
L120 E + 5 S	4039.48	510.65	512.88	515.48	-2.60	1018
L120 E + 4 S	4043.73	510.39	512.66	515.23	-2.57	1019
L120 E + 3 S	4048.02	510.05	512.37	514.97	-2.60	1020
L120 E + 2 S	4051.51	509.82	512.23	514.76	-2.53	1021
L120 E + 1 S	4056.41	509.45	511.93	514.47	-2.54	1022
L120 E + 0 S	4061.63	509.11	511.68	514.16	-2.48	1023
L120 E + 1 N	4081.65	-0.0	516.15	512.96		1024
L120 E + 2 N	4095.26	506.85	509.44	512.14	-2.70	1025
L120 E + 3 N	4112.09	505.80	508.41	511.12	-2.71	1026
L120 E + 4 N	4125.43	504.92	507.56	510.32	-2.76	1027
L120 E + 5 N	4141.00	504.12	506.80	509.37	-2.57	1028
L120 E + 6 N	4156.47	503.21	505.95	508.43	-2.48	1029
L120 E + 7 N	4169.52	502.40	505.24	507.64	-2.40	1030
L120 E + 8 N	4183.08	501.61	504.60	506.81	-2.21	1031
L120 E + 9 N	4201.62	500.45	503.51	505.67	-2.17	1032
L120 E + 10 N	4225.76	498.94	502.01	504.19	-2.18	1033
L120 E + 11 N	4251.49	497.47	500.52	502.61	-2.09	1034
L120 E + 12 N	4272.88	496.05	499.15	501.28	-2.13	1035
L120 E + 13 N	4081.65	-0.0	516.15	512.96	3.19	1036
L120 E + 14 N	4304.59	493.93	497.43	499.31	-1.88	1037
L120 E + 15 N	4330.14	492.29	496.01	497.71	-1.70	1038
L120 E + 16 N	4358.17	490.53	494.46	495.95	-1.49	1039
L120 E + 17 N	4399.94	487.91	491.91	493.32	-1.41	1040
L120 E + 18 N	4446.17	485.13	489.15	490.38	-1.23	1041
L120 E + 19 N	4487.89	482.61	486.57	487.71	-1.14	1042
L120 E + 20 N	4531.52	479.94	483.86	484.90	-1.04	1043
L120 E + 21 N	4574.54	477.29	481.08	482.11	-1.03	1044
L120 E + 22 N	4616.44	474.74	478.33	479.37	-1.04	1045
L120 E + 23 N	4652.33	472.55	475.91	477.01	-1.10	1046
L120 E + 24 N	4674.79	471.27	474.38	475.53	-1.15	1047
L120 E + 25 N	4688.24	470.53	473.45	474.64	-1.19	1048
L120 E + 26 N	4081.65	-0.0	516.15	512.96	3.19	1049
L120 E + 27 N	4704.98	469.61	472.40	473.53	-1.13	1050
L120 E + 28 N	4721.26	468.67	471.38	472.45	-1.07	1051
L120 E + 29 N	4733.73	467.94	470.62	471.61	-0.99	1052
L120 E + 30 N	4745.76	467.28	469.91	470.81	-0.90	1053
L120 E + 31 N	4081.65	-0.0	516.15	512.96	3.19	1054
L120 E + 32 N	4767.14	466.14	468.76	469.38	-0.62	1055
L120 E + 33 N	4773.71	465.84	468.50	468.94	-0.44	1056
L120 E + 34 N	4784.44	465.29	468.00	468.22	-0.22	1057
L120 E + 35 N	4081.65	-0.0	516.15	512.96		1058
L120 E + 36 N	4821.59	463.17	465.87	465.71	0.16	1059
L120 E + 37 N	4081.65	-0.0	516.15	512.96	3.19	1060
L120 E + 38 N	4866.15	460.46	463.08	462.69	0.39	1061
L120 E + 39 N	4882.09	459.58	462.15	461.60	0.55	1062
L120 E + 40 N	4898.76	458.58	461.11	460.46	0.65	1063
L120 E + 41 N	4909.89	457.94	460.43	459.70	0.73	1064
L120 E + 42 N	4921.11	457.17	459.65	458.93	0.72	1065
L120 E + 43 N	4922.51	457.20	459.68	458.84	0.84	1066

L120 E + 44 N	4935.86	456.26	458.80	457.92	0.88	1067
L120 E + 45 N	4936.53	456.24	458.81	457.87	0.94	1068
L128 E + 45 S	3707.14	529.39	531.31	534.74	-3.43	1069
L128 E + 44 S	3720.21	528.65	530.46	534.00	-3.55	1070
L128 E + 43 S	3729.09	528.27	529.97	533.50	-3.53	1071
L128 E + 42 S	3739.34	527.57	529.27	532.92	-3.65	1072
L128 E + 41 S	3754.79	526.66	528.43	532.05	-3.62	1073
L128 E + 40 S	4081.65	-0.0	516.15	512.96		1074
L128 E + 39 S	3825.52	522.09	523.82	528.01	-4.19	1075
L128 E + 38 S	3844.25	521.13	522.71	526.93	-4.22	1076
L128 E + 37 S	3844.33	521.40	522.77	526.93	-4.16	1077
L128 E + 36 S	3849.10	521.12	522.40	526.65	-4.25	1078
L128 E + 35 S	3844.23	521.51	522.78	526.93	-4.15	1079
L128 E + 34 S	3852.37	521.02	522.29	526.46	-4.17	1080
L128 E + 33 S	3867.81	520.10	521.37	525.57	-4.20	1081
L128 E + 32 S	3876.65	519.67	520.96	525.06	-4.10	1082
L128 E + 31 S	3893.40	518.65	519.96	524.08	-4.13	1083
L128 E + 30 S	3893.64	518.74	520.08	524.07	-3.99	1084
L128 E + 29 S	3909.26	517.75	519.12	523.16	-4.04	1085
L128 E + 28 S	3922.10	517.01	518.42	522.41	-3.99	1086
L128 E + 27 S	3936.03	516.33	517.76	521.60	-3.84	1087
L128 E + 26 S	3945.56	515.78	517.24	521.04	-3.80	1088
L128 E + 25 S	3960.02	514.83	516.30	520.19	-3.89	1089
L128 E + 24 S	3976.00	513.98	515.46	519.25	-3.79	1090
L128 E + 23 S	3986.38	513.29	514.78	518.63	-3.85	1091
L128 E + 22 S	3978.97	513.80	515.31	519.07	-3.76	1092
L128 E + 21 S	3988.73	513.28	514.82	518.49	-3.67	1093
L128 E + 20 S	4005.91	512.27	513.83	517.48	-3.65	1094
L128 E + 19 S	4016.66	511.66	513.26	516.84	-3.58	1095
L128 E + 18 S	4020.93	511.39	513.01	516.58	-3.58	1096
L128 E + 17 S	4008.19	512.13	513.81	517.34	-3.53	1097
L128 E + 16 S	4004.07	512.40	514.26	517.59	-3.33	1098
L128 E + 15 S	4011.21	511.94	513.95	517.16	-3.21	1099
L128 E + 14 S	4031.51	510.72	512.76	515.96	-3.20	1100
L128 E + 13 S	4066.35	508.61	510.60	513.87	-3.27	1101
L128 E + 12 S	4079.65	507.82	509.84	513.08	-3.24	1102
L128 E + 11 S	4097.28	506.71	508.77	512.02	-3.25	1103
L128 E + 10 S	4118.40	505.36	507.46	510.74	-3.28	1104
L128 E + 9 S	4136.74	504.24	506.37	509.63	-3.26	1105
L128 E + 8 S	4158.62	502.90	505.05	508.30	-3.25	1106
L128 E + 7 S	4081.65	-0.0	516.15	512.96		1107
L128 E + 6 S	4199.66	500.39	502.59	505.80	-3.21	1108
L128 E + 5 S	4212.37	499.66	501.85	505.02	-3.17	1109
L128 E + 4 S	4225.92	498.87	501.07	504.18	-3.11	1110
L128 E + 3 S	4240.63	497.79	500.02	503.28	-3.26	1111
L128 E + 2 S	4250.88	497.17	499.41	502.64	-3.23	1112
L128 E + 1 S	4260.54	496.65	498.91	502.05	-3.14	1113
L128 E + 0	4269.46	496.16	498.43	501.49	-3.06	1114
L128 E + 1 N	4278.72	495.56	497.83	500.92	-3.09	1115
L128 E + 2 N	4286.71	495.07	497.33	500.42	-3.09	1116
L128 E + 3 N	4293.81	494.63	496.87	499.98	-3.11	1117
L128 E + 4 N	4292.38	494.73	496.94	500.07	-3.13	1118
L128 E + 5 N	4289.85	494.90	497.14	500.23	-3.09	1119
L128 E + 6 N	4297.57	494.42	496.68	499.75	-3.07	1120
L128 E + 7 N	4304.48	494.04	496.34	499.32	-2.98	1121
L128 E + 8 N	4310.45	493.64	495.99	498.94	-2.95	1122
L128 E + 9 N	4316.30	493.21	495.62	498.58	-2.96	1123
L128 E + 10 N	4081.65	-0.0	516.15	512.96		1124
L128 E + 11 N	4330.04	492.40	494.98	497.72	-2.74	1125
L128 E + 12 N	4352.26	490.96	493.53	496.32	-2.80	1126

L128 E + 13 N	4370.60	489.77	492.38	495.17	-2.79	1127
L128 E + 14 N	4365.41	490.09	492.75	495.50	-2.75	1128
L128 E + 15 N	4364.90	490.02	492.84	495.53	-2.69	1129
L128 E + 16 N	4363.94	489.96	493.07	495.59	-2.52	1130
L128 E + 17 N	4372.36	489.35	492.77	495.06	-2.29	1131
L128 E + 18 N	4387.04	488.41	492.23	494.13	-1.90	1132
L136 E + 44 18 S	3725.92	527.55	529.53	533.68	-4.15	1133
L136 E + 43 S	3746.29	526.47	528.35	532.53	-4.18	1134
L136 E + 42 S	3766.28	525.30	527.10	531.40	-4.30	1135
L136 E + 41 S	3789.05	523.89	525.60	530.10	-4.50	1136
L136 E + 40 S	3793.35	523.75	525.36	529.85	-4.49	1137
L136 E + 39 S	3806.59	522.97	524.54	529.10	-4.56	1138
L136 E + 38 S	3821.61	522.08	523.67	528.23	-4.56	1139
L136 E + 37 S	3848.99	520.37	521.96	526.66	-4.70	1140
L136 E + 36 S	3872.16	518.97	520.53	525.32	-4.79	1141
L136 E + 35 S	3884.64	518.32	519.80	524.59	-4.79	1142
L136 E + 34 S	3887.77	518.18	519.61	524.41	-4.80	1143
L136 E + 33 S	3905.54	517.25	518.67	523.38	-4.71	1144
L136 E + 32 S	3923.54	516.21	517.62	522.33	-4.71	1145
L136 E + 31 S	3940.97	515.21	516.62	521.31	-4.69	1146
L136 E + 30 S	3945.93	515.00	516.39	521.02	-4.63	1147
L136 E + 29 S	3946.61	514.95	516.43	520.98	-4.55	1148
L136 E + 28 S	3961.01	514.08	515.62	520.13	-4.51	1149
L136 E + 27 S	3997.94	511.82	513.35	517.95	-4.60	1150
L136 E + 26 S	4012.41	511.04	512.58	517.09	-4.51	1151
L136 E + 25 S	4031.34	509.93	511.48	515.97	-4.49	1152
L136 E + 24 S	4060.67	508.09	509.65	514.21	-4.56	1153
L136 E + 23 S	4071.33	507.55	509.07	513.57	-4.51	1154
L136 E + 22 S	4072.16	507.52	509.03	513.53	-4.50	1155
L136 E + 21 S	4087.88	506.55	508.09	512.58	-4.49	1156
L136 E + 20 S	4103.06	505.63	507.18	511.67	-4.49	1157
L136 E + 19 S	4119.99	504.61	506.17	510.65	-4.48	1158
L136 E + 18 S	4135.99	503.62	505.17	509.68	-4.51	1159
L136 E + 17 S	4150.12	502.81	504.35	508.82	-4.47	1160
L136 E + 16 S	4155.65	502.46	503.97	508.48	-4.51	1161
L136 E + 15 S	4167.42	501.70	503.20	507.77	-4.57	1162
L136 E + 14 S	4169.86	501.54	503.03	507.62	-4.59	1163
L136 E + 13 S	4165.00	501.89	503.43	507.91	-4.48	1164
L136 E + 12 S	4178.19	501.04	502.60	507.11	-4.51	1165
L136 E + 11 S	4189.02	500.44	502.06	506.45	-4.39	1166
L136 E + 10 S	4200.45	499.85	501.54	505.75	-4.21	1167
L136 E + 9 S	4218.36	498.77	500.55	504.65	-4.10	1168
L136 E + 8 S	4236.20	497.65	499.49	503.55	-4.06	1169
L136 E + 7 S	4260.40	496.17	498.04	502.05	-4.01	1170
L136 E + 6 S	4278.57	495.05	496.95	500.93	-3.98	1171
L136 E + 5 S	4294.10	494.07	496.01	499.96	-3.95	1172
L136 E + 4 S	4311.76	492.99	494.98	498.86	-3.88	1173
L136 E + 3 S	4331.08	491.77	493.81	497.65	-3.84	1174
L136 E + 2 S	4357.81	490.02	492.06	495.98	-3.92	1175
L136 E + 1 S	4375.20	488.98	491.00	494.88	-3.88	1176
L136 E + 0	4387.76	488.25	490.25	494.09	-3.84	1177
L136 E + 1 N	4398.59	487.55	489.55	493.40	-3.85	1178
L136 E + 2 N	4412.30	486.72	488.77	492.53	-3.76	1179
L136 E + 3 N	4429.46	485.63	487.76	491.44	-3.68	1180
L136 E + 4 N	4448.46	484.50	486.72	490.23	-3.51	1181
L136 E + 5 N	4462.29	483.66	485.93	489.35	-3.42	1182
L136 E + 6 N	4470.00	483.31	485.57	488.86	-3.29	1183
L136 E + 7 N	4487.08	482.25	484.58	487.76	-3.18	1184
L136 E + 8 N	4504.55	481.08	483.49	486.64	-3.15	1185
L136 E + 9 N	4519.35	480.14	482.59	485.68	-3.09	1186

L136 E + 10 N	4529.53	479.58	482.02	485.03	-3.01	1187
L136 E + 11 N	4538.93	479.02	481.45	484.42	-2.97	1188
L136 E + 12 N	4543.18	478.73	481.13	484.14	-3.01	1189
L136 E + 13 N	4549.32	478.46	480.89	483.75	-2.86	1190
L136 E + 14 N	4568.45	477.19	479.72	482.50	-2.78	1191
L136 E + 15 N	4582.01	476.30	478.88	481.62	-2.74	1192
L136 E + 16 N	4598.93	475.20	477.85	480.52	-2.67	1193
L136 E + 17 N	4610.87	474.50	477.17	479.73	-2.56	1194
L136 E + 18 N	4631.85	473.04	475.77	478.36	-2.59	1195
L136 E + 19 N	4638.27	472.60	475.29	477.94	-2.65	1196
L136 E + 20 N	4661.41	471.26	474.00	476.41	-2.41	1197
L136 E + 21 N	4678.82	470.09	472.82	475.26	-2.44	1198
L136 E + 22 N	4690.21	469.43	472.11	474.51	-2.40	1199
L136 E + 23 N	4702.67	468.60	471.25	473.68	-2.43	1200
L136 E + 24 N	4713.30	467.83	470.47	472.98	-2.51	1201
L136 E + 25 N	4728.29	467.01	469.67	471.98	-2.31	1202
L136 E + 26 N	4742.48	466.23	468.94	471.03	-2.09	1203
L136 E + 27 N	4762.52	464.93	467.71	469.69	-1.98	1204
L136 E + 28 N	4784.17	463.67	466.51	468.24	-1.73	1205
L136 E + 29 N	4807.55	462.26	465.15	466.66	-1.51	1206
L136 E + 30 N	4831.49	460.85	463.73	465.04	-1.31	1207
L136 E + 31 N	4852.97	459.52	462.36	463.59	-1.23	1208
L136 E + 32 N	4870.67	458.50	461.31	462.38	-1.07	1209
L136 E + 33 N	4885.33	457.74	460.52	461.38	-0.86	1210
L136 E + 34 N	4902.87	456.65	459.42	460.18	-0.76	1211
L136 E + 35 N	4918.57	455.71	458.47	459.11	-0.64	1212
L136 E + 36 N	4932.44	454.98	457.72	458.15	-0.44	1213
L136 E + 37 N	4940.94	454.49	457.20	457.57	-0.37	1214
L136 E + 38 N	4950.23	453.98	456.68	456.93	-0.25	1215
L136 E + 39 N	4958.23	453.54	456.26	456.38	-0.12	1216
L136 E + 40 N	4974.04	452.70	455.43	455.29	0.14	1217
L136 E + 41 N	4986.77	451.84	454.58	454.40	0.18	1218
L136 E + 42 N	5000.13	450.98	453.74	453.48	0.26	1219
L136 E + 43 N	5013.28	450.15	452.91	452.56	0.35	1220
L136 E + 44 N	5028.42	449.16	451.94	451.51	0.43	1221
L136 E + 45 N	5035.59	448.81	451.61	451.01	0.60	1222
L144 E + 0	4375.92	487.57	490.23	494.84	-4.61	1223
L144 E + 1 N	4373.77	487.66	490.29	494.97	-4.68	1224
L144 E + 2 N	4377.16	487.39	490.03	494.76	-4.73	1225
L144 E + 3 N	4393.85	486.25	488.95	493.70	-4.75	1226
L144 E + 4 N	4407.22	485.41	488.13	492.86	-4.73	1227
L144 E + 5 N	4424.11	484.30	487.08	491.78	-4.70	1228
L144 E + 6 N	4438.81	483.28	486.08	490.85	-4.77	1229
L144 E + 7 N	4444.58	483.10	485.90	490.48	-4.58	1230
L144 E + 8 N	4460.85	482.03	484.92	489.44	-4.52	1231
L144 E + 9 N	4477.85	480.91	483.89	488.35	-4.46	1232
L144 E + 10 N	4509.31	478.84	481.97	486.33	-4.36	1233
L144 E + 11 N	4521.91	478.30	481.39	485.52	-4.13	1234
L144 E + 12 N	4547.43	476.67	479.82	483.87	-4.05	1235
L144 E + 13 N	4565.87	475.62	478.77	482.67	-3.90	1236
L144 E + 14 N	4594.68	473.88	477.05	480.79	-3.74	1237
L144 E + 15 N	4604.48	473.49	476.57	480.15	-3.58	1238
L144 E + 16 N	4622.86	472.34	475.45	478.95	-3.50	1239
L144 E + 17 N	4656.25	470.08	473.34	476.75	-3.41	1240
L144 E + 18 N	4678.92	468.66	471.93	475.26	-3.33	1241
L144 E + 19 N	4691.76	467.97	471.23	474.41	-3.18	1242
L144 E + 20 N	4718.09	466.23	469.60	472.66	-3.06	1243
L144 E + 21 N	4748.64	464.26	467.79	470.62	-2.83	1244
L144 E + 22 N	4784.26	461.66	465.44	468.23	-2.79	1245
L144 E + 23 N	4798.15	460.89	464.59	467.29	-2.71	1246

L144	E	+	24	N	4801.57	460.81	464.35	467.06	-2.71	1247
L144	E	+	25	N	4806.15	460.51	463.96	466.76	-2.80	1248
BLO	+	33	E		4197.35	505.79	508.31	505.94	2.37	1249
BLO	+	34	E		4199.89	505.65	508.12	505.78	2.34	1250
BLO	+	35	E		4213.69	504.61	507.12	504.93	2.19	1251
BLO	+	36	E		4208.33	505.09	507.50	505.26	2.24	1252
BLO	+	37	E		4202.36	505.52	507.89	505.63	2.26	1253
BLO	+	38	E		4207.61	505.20	507.56	505.31	2.25	1254
BLO	+	39	E		4217.70	504.45	506.81	504.69	2.12	1255
BLO	+	41	E		4231.58	503.57	505.93	503.83	2.10	1256
BLO	+	42	E		4238.91	503.06	505.41	503.38	2.03	1257
BLO	+	43	E		4239.58	502.99	505.30	503.34	1.96	1258
BLO	+	44	E		4245.97	502.52	504.81	502.95	1.86	1259
BLO	+	45	E		4255.99	501.82	504.11	502.33	1.78	1260
BLO	+	46	E		4255.21	501.86	504.10	502.38	1.72	1261
BLO	+	47	E		4251.06	502.14	504.38	502.63	1.75	1262
BLO	+	49	E		4278.66	500.10	502.38	500.92	1.46	1263
BLO	+	50	E		4289.48	499.38	501.68	500.25	1.43	1264
BLO	+	51	E		4297.92	498.77	501.04	499.72	1.32	1265
BLO	+	52	E		4301.26	498.49	500.72	499.52	1.20	1266
BLO	+	53	E		4304.60	498.13	500.32	499.31	1.01	1267
BLO	+	54	E		4311.73	497.52	499.72	498.86	0.86	1268
BLO	+	55	E		4308.22	497.72	499.86	499.08	0.78	1269
BLO	+	57	E		4301.85	498.20	500.29	499.48	0.81	1270
BLO	+	58	E		4305.89	497.84	499.92	499.23	0.69	1271
BLO	+	59	E		4308.46	497.63	499.70	499.07	0.63	1272
BLO	+	60	E		4314.25	497.23	499.31	498.71	0.60	1273
BLO	+	61	E		4317.54	496.96	499.04	498.50	0.54	1274
BLO	+	62	E		4316.72	496.98	499.05	498.55	0.50	1275
BLO	+	63	E		4316.56	496.95	499.01	498.56	0.45	1276
BLO	+	65	E		4301.71	497.99	500.02	499.49	0.53	1277
BLO	+	66	E		4296.14	498.32	500.35	499.84	0.51	1278
BLO	+	67	E		4297.15	498.27	500.31	499.77	0.54	1279
BLO	+	68	E		4295.73	498.41	500.48	499.86	0.62	1280
BLO	+	69	E		4286.65	499.03	501.08	500.43	0.65	1281
BLO	+	70	E		4283.36	499.21	501.27	500.63	0.64	1282
BLO	+	71	E		4278.01	499.56	501.60	500.96	0.64	1283
BLO	+	73	E		4269.67	500.00	502.02	501.48	0.54	1284
BLO	+	74	E		4267.69	500.11	502.13	501.60	0.53	1285
BLO	+	75	E		4274.95	499.65	501.68	501.15	0.53	1286
BLO	+	76	E		4283.64	499.00	501.06	500.61	0.45	1287
BLO	+	77	E		4287.58	498.70	500.77	500.37	0.40	1288
BLO	+	78	E		4296.72	498.03	500.16	499.80	0.36	1289
BLO	+	79	E		4298.72	497.87	500.02	499.67	0.34	1290
BLO	+	81	E		4292.79	498.13	500.29	500.04	0.25	1291
BLO	+	82	E		4292.20	497.97	500.17	500.08	0.09	1292
BLO	+	83	E		4287.65	498.26	500.50	500.36	0.14	1293
BLO	+	84	E		4280.41	498.62	500.89	500.81	0.08	1294
BLO	+	85	E		4277.09	498.75	501.10	501.02	0.08	1295
BLO	+	86	E		4259.97	499.80	502.13	502.08	0.05	1296
BLO	+	87	E		4250.87	500.26	502.62	502.64	-0.02	1297
BLO	+	89	E		4221.72	501.97	504.41	504.44	-0.03	1298
BLO	+	90	E		4204.91	502.90	505.40	505.47	-0.07	1299
BLO	+	91	E		4179.85	504.40	506.93	507.01	-0.08	1300
BLO	+	92	E		4164.27	505.22	507.80	507.96	-0.16	1301
BLO	+	93	E		4141.89	506.51	509.12	509.32	-0.20	1302
BLO	+	94	E		4117.06	508.00	510.60	510.82	-0.22	1303
BLO	+	95	E		4092.78	509.27	511.87	512.29	-0.42	1304
BLO	+	97	E		4044.38	511.84	514.56	515.19	-0.63	1305
BLO	+	98	E		4029.00	512.58	515.36	516.10	-0.74	1306

BLO	+	99	E	4026.47	512.55	515.26	516.26	-1.00	1307
BLO	+	100	E	4028.32	512.31	514.98	516.15	-1.17	1308
BLO	+	101	E	4033.55	511.97	514.67	515.83	-1.16	1309
BLO	+	102	E	4039.19	511.58	514.38	515.50	-1.12	1310
BLO	+	103	E	4030.19	512.02	514.90	516.03	-1.13	1311
BLO	+	105	E	4010.13	512.97	515.88	517.23	-1.35	1312
BLO	+	106	E	4001.94	513.38	516.25	517.71	-1.46	1313
BLO	+	107	E	4002.21	513.19	516.00	517.70	-1.70	1314
BLO	+	108	E	3997.68	513.29	516.09	517.96	-1.88	1315
BLO	+	109	E	4003.72	512.84	515.63	517.61	-1.98	1316
BLO	+	110	E	4007.32	512.55	515.39	517.39	-2.00	1317
BLO	+	111	E	3998.83	513.07	515.98	517.90	-1.92	1318
BLO	+	113	E	4015.33	512.01	514.80	516.92	-2.12	1319
BLO	+	114	E	4019.85	511.67	514.35	516.65	-2.30	1320
BLO	+	115	E	4020.67	511.60	514.18	516.60	-2.42	1321
BLO	+	116	E	4015.59	511.83	514.41	516.90	-2.49	1322
BLO	+	117	E	4024.27	511.27	513.80	516.39	-2.59	1323
BLO	+	118	E	4037.05	510.49	512.97	515.63	-2.66	1324
BLO	+	119	E	4049.50	509.75	512.24	514.88	-2.64	1325
BLO	+	121	E	4083.89	507.79	510.41	512.82	-2.41	1326
BLO	+	122	E	4112.43	506.06	508.73	511.10	-2.37	1327
BLO	+	123	E	4141.68	504.29	506.96	509.33	-2.37	1328
BLO	+	124	E	4171.20	502.45	505.09	507.53	-2.45	1329
BLO	+	125	E	4194.07	501.06	503.66	506.14	-2.48	1330
BLO	+	126	E	4220.57	499.32	501.83	504.51	-2.68	1331
BLO	+	127	E	4247.17	497.57	499.95	502.87	-2.92	1332
BLO	+	129	E	4284.85	495.19	497.42	500.54	-3.12	1333
BLO	+	130	E	4307.14	493.80	496.02	499.15	-3.13	1334
BLO	+	131	E	4322.59	492.81	495.00	498.19	-3.19	1335
BLO	+	132	E	4340.65	491.65	493.81	497.05	-3.24	1336
BLO	+	133	E	4353.35	490.77	492.88	496.26	-3.38	1337
BLO	+	134	E	4366.77	489.72	491.79	495.41	-3.62	1338
BLO	+	135	E	4380.87	488.70	490.75	494.52	-3.77	1339
BLO	+	137	E	4395.09	487.70	489.67	493.62	-3.95	1340
BLO	+	138	E	4404.58	486.90	488.88	493.02	-4.14	1341
BLO	+	139	E	4413.34	486.19	488.20	492.47	-4.27	1342
BLO	+	140	E	4416.43	485.78	487.84	492.27	-4.43	1343
BLO	+	141	E	4414.80	485.81	487.94	492.38	-4.44	1344
BLO	+	142	E	4403.35	486.32	488.50	493.10	-4.60	1345
BLO	+	143	E	4081.65	-0.0	516.15	512.96		1346

UTION TERMINATED

NOFF

RE-INTERPRETATION OF FISHOOK CREEK GRAVITY SURVEYINTRODUCTION

The Fishook Creek property is located 20 miles northwest of Faro, Yukon on the south west slope of Tay Mtn. The claims were staked in June 1976 to cover a thick section of Cambrian graphitic phyllites.

Access is by helicopter from either Ross River or Faro.

GEOLOGY

The claim group is underlain by Lower Cambrian to Ordovician schists and phyllites similar to those in the Faro - Swim Lakes area. The generally southwesterly dipping phyllites have been repeated by at least two thrust faults.

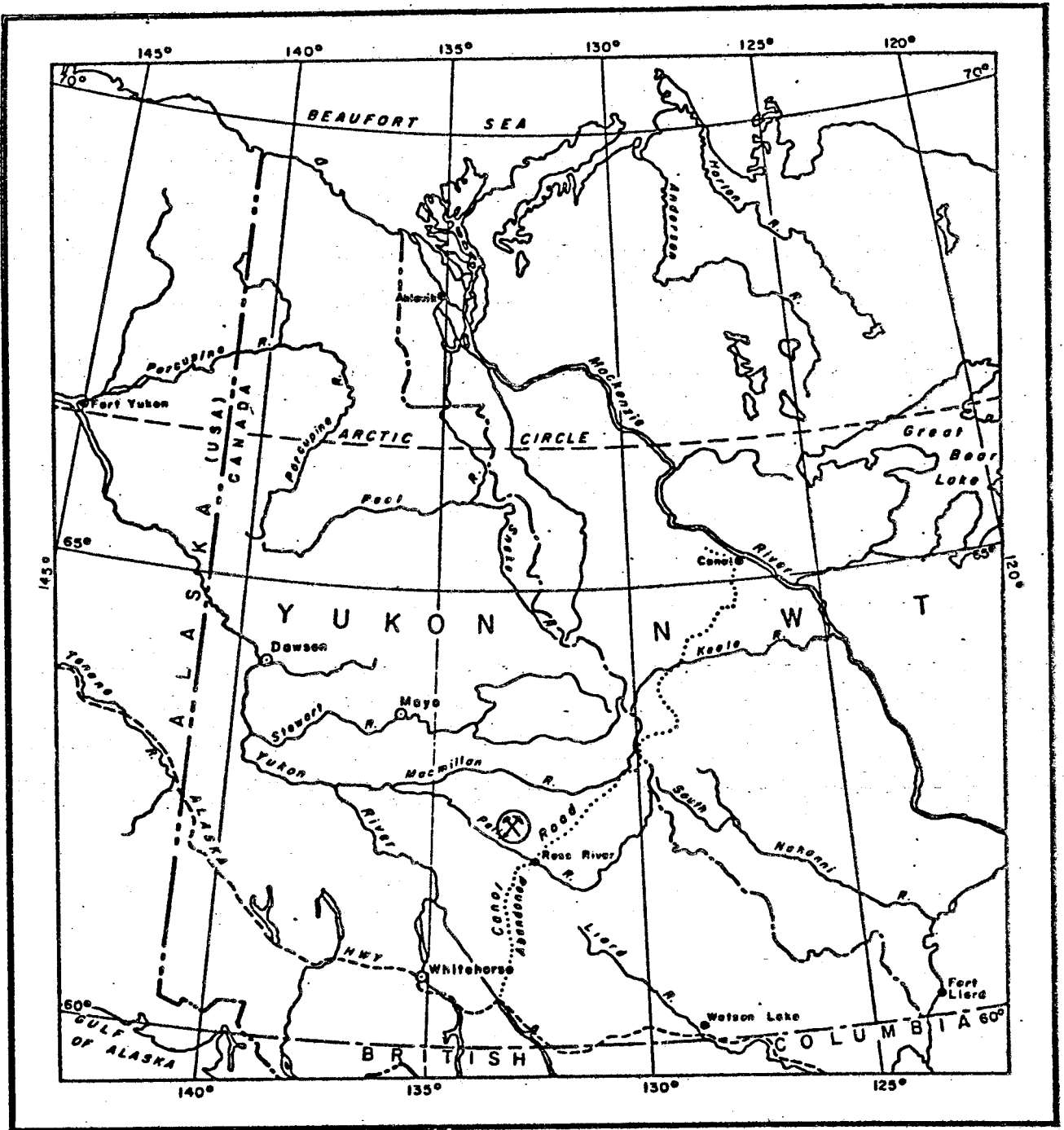
Knobby weathering greenstones and chloritic phyllites crop out across the southern half of the claim group. A wide band of quartzose phyllite with thick lenses of dark grey to black quartz-graphitic phyllite generated initial interest in the area. The gravity survey was centred over the thickest known graphitic phyllite and its down dip extension.

GRAVITY SURVEY

Examination of results from the original gravity survey suggested that all the terrain corrections had been removed. The data from the survey was submitted to L.A. Ager for recalculation. Density measurements were not made on samples from the property.

Terrain density of 2.8 gkc is the mean density usually used for the Cambro-Ordovician phyllites in the Anvil-Ross River area and was used in the calculations by Ager

Subsequent gravity surveys on the property in 1978 will use terrain density calculated from a representative sample suite.



AMAX POTASH LIMITED

FISHOOK CREEK PROPERTY
 WHITEHORSE MINING DISTRICT — YUKON TERRITORY

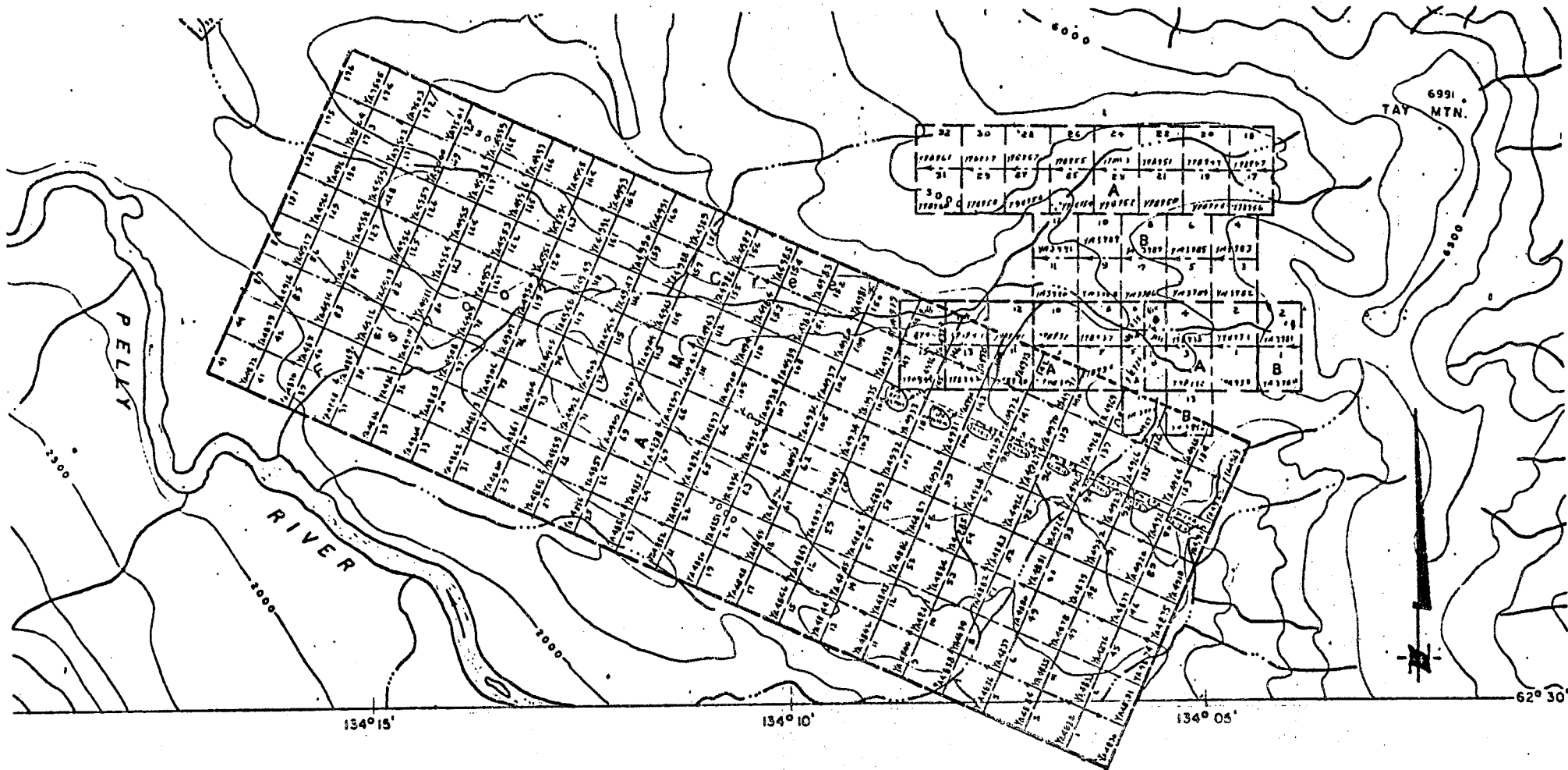
LOCATION MAP

SCALE 1" = 120 MILES

N. T. S. Ref. 105 L 8 and 9
FIG. 7

Vancouver -

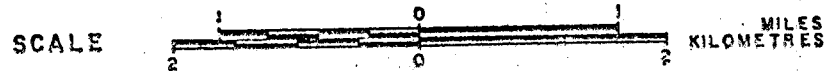
M.P.



AMAX POTASH LIMITED

FISHHOOK CREEK PROPERTY
 WHITEHORSE MINING DISTRICT - YUKON TERRITORY

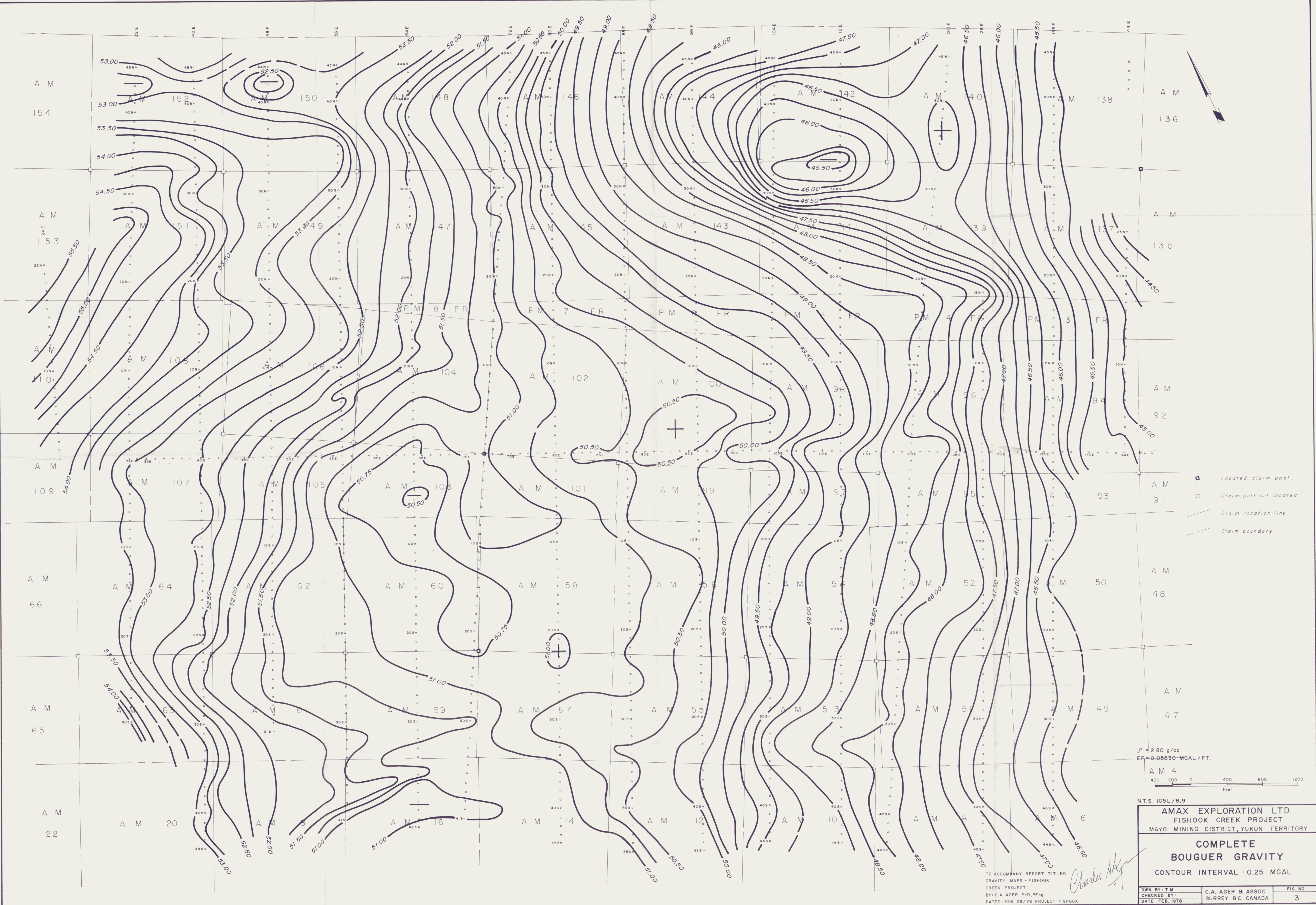
CLAIM MAP



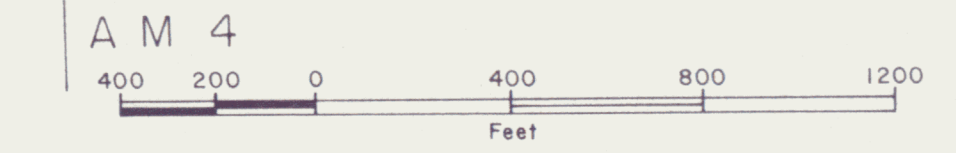
APPENDIX E

CLAIM STATUS

<u>Claim Name</u>	<u>Tag No.</u>	<u>Expiry Date</u>
AM 6	YA4835	July 20, 1978
AM 8	YA4837	"
AM 10	YA4839	"
AM 12	YA4841	"
AM 14	YA4843	"
AM 16	YA4845	"
AM 18	YA4847	"
AM 20	YA4849	"
AM 49-63 incl.	YA4874-YA4891 incl.	July 20, 1979
AM 64	YA4892	July 20, 1978
AM 91-108 incl.	YA4920-YA4937 incl.	July 20, 1979
AM 137-152 incl.	YA4966-YA4981 incl.	July 20, 1979



$\rho = 2.80 \text{ g/cc}$
 $CF = 0.05830 \text{ MGAL/FT.}$



N.T.S. 105L/8,9

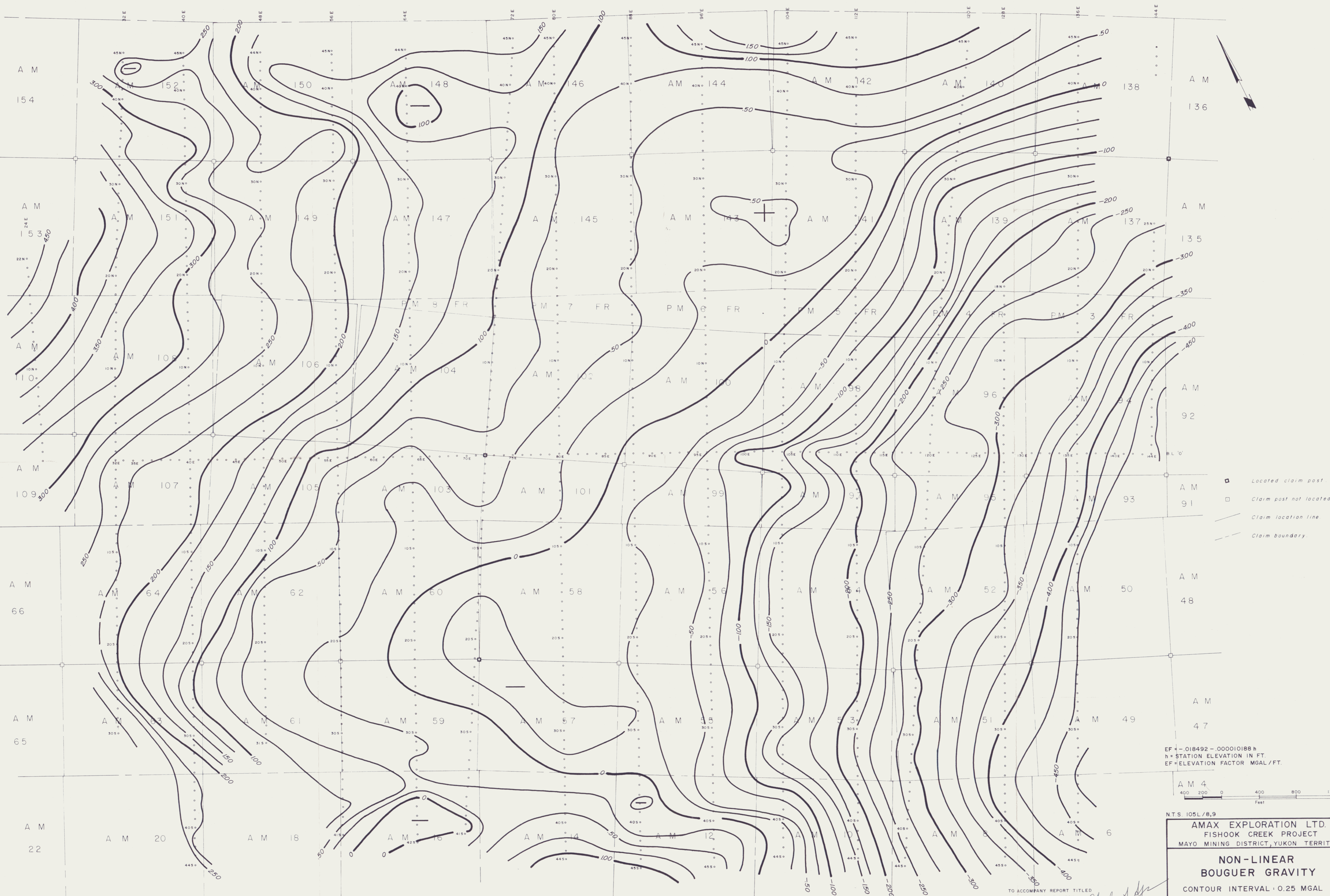
AMAX EXPLORATION LTD.
 FISHOOK CREEK PROJECT
 MAYO MINING DISTRICT, YUKON TERRITORY

COMPLETE BOUGUER GRAVITY
 CONTOUR INTERVAL: 0.25 MGAL

TO ACCOMPANY REPORT TITLED
 GRAVITY MAPS - FISHOOK
 CREEK PROJECT
 BY: C.A. AGER PHD, P.Eng.
 DATED: FEB. 28/78 PROJECT: FISHOOK

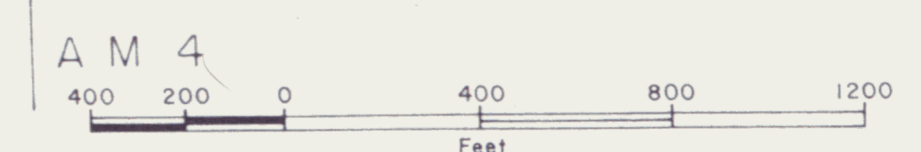
Charles Ager

DOWN BY: T.M.	C.A. AGER & ASSOC.	FIG. NO.
CHECKED BY:	SURREY B.C. CANADA	3
DATE: FEB. 1978		



- ▣ Located claim post
- Claim post not located
- Claim location line
- - - Claim boundary

EF = 018492 - 000010188 h
 h = STATION ELEVATION IN FT.
 EF = ELEVATION FACTOR MGAL/FT.



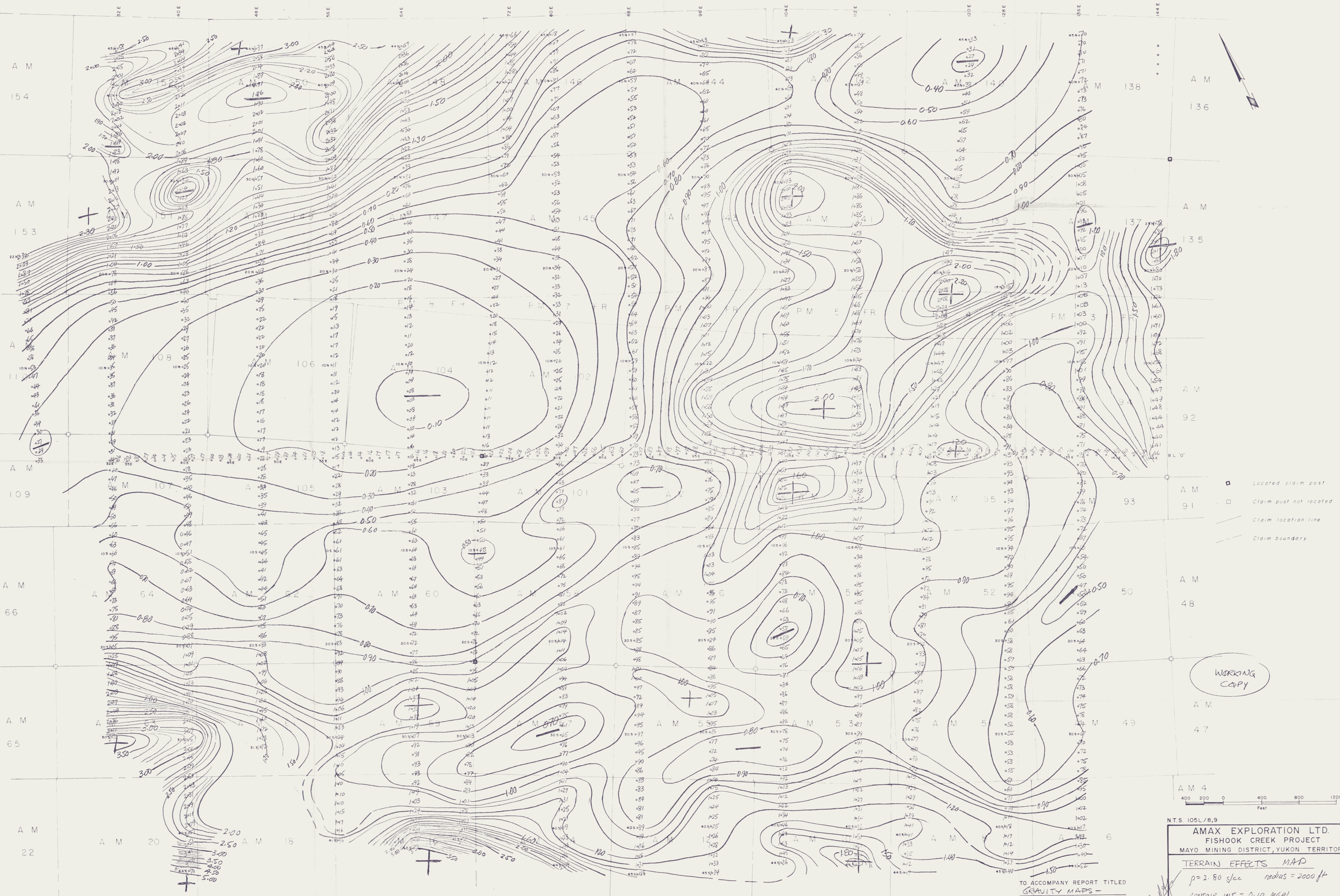
N.T.S. 105L/B,9
AMAX EXPLORATION LTD.
 FISHOOK CREEK PROJECT
 MAYO MINING DISTRICT, YUKON TERRITORY

**NON-LINEAR
 BOUGUER GRAVITY**
 CONTOUR INTERVAL 0.25 MGAL

TO ACCOMPANY REPORT TITLED
 GRAVITY MAPS - FISHOOK
 CREEK PROJECT
 BY: C. A. AGER PhD, P. Eng.
 DATED: FEB. 28/78 PROJECT - FISHOOK

Charles A. Ager

OWN BY: T.M.	C. A. AGER & ASSOC.	FIG. NO.
CHECKED BY:	SURREY B.C. CANADA	4
DATE: FEB. 1978		



NTS 105L/8,9
AM EXPLORATION LTD.
FISHOOK CREEK PROJECT
 MAYO MINING DISTRICT, YUKON TERRITORY

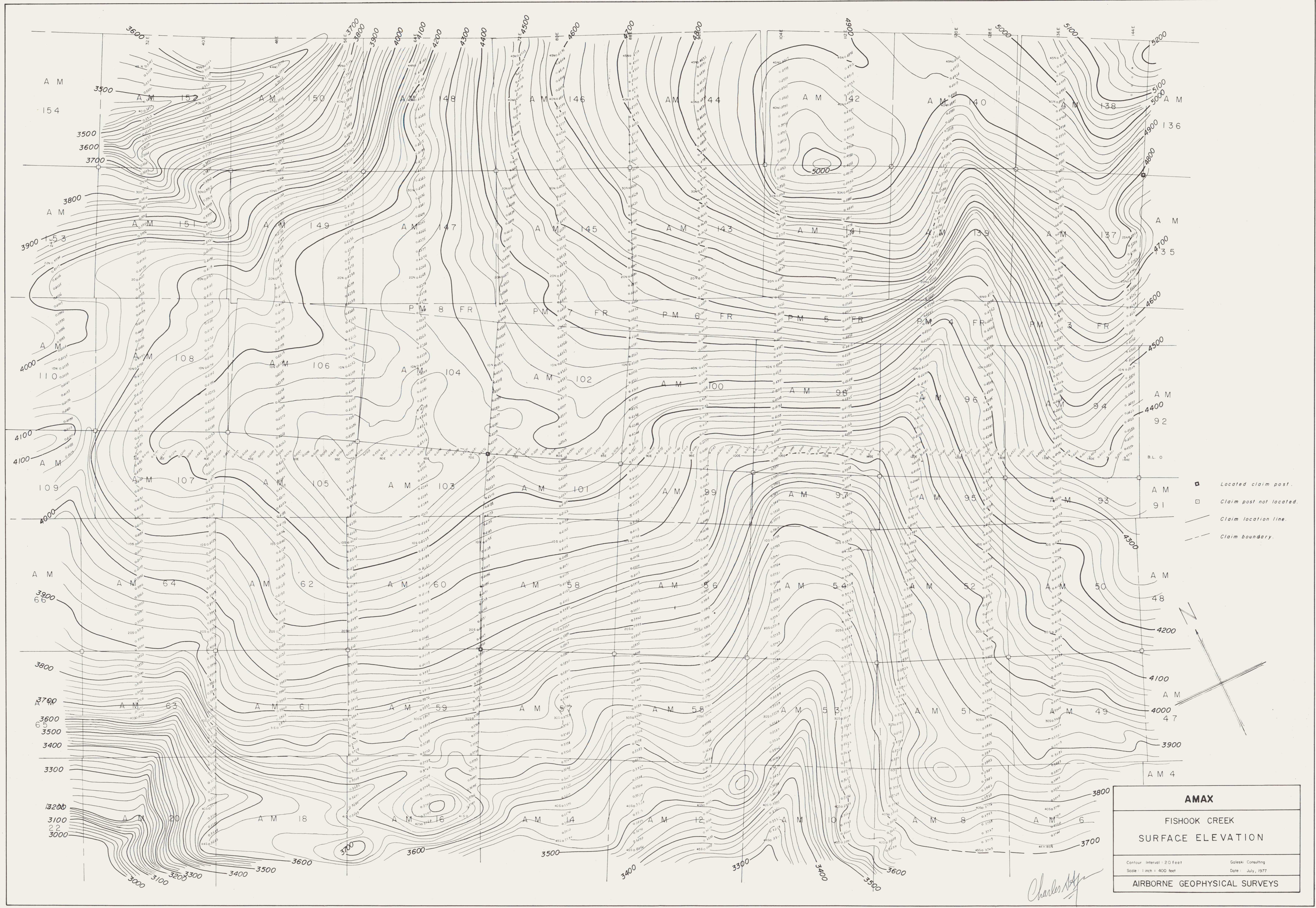
TERRAIN EFFECTS MAP
 $p = 2.80$ slope radius = 2000 ft
 CONTOUR INT = 0.10 MGAL

TO ACCOMPANY REPORT TITLED
GRAVITY MAPS -
FISHOOK CREEK PROJ
 BY **C.A. AGER PHD PEng**
 DATED **2/16/78** PROJECT # **FISH**

CHECKED BY: *Charles...*
 DATE: FEB 1978

C.A. AGER & ASSOC.
 SURREY B.C. CANADA

FIG. NO.
5



- ◻ Located claim post.
- ◻ Claim post not located.
- Claim location line.
- - - Claim boundary.

AMAX	
FISHHOOK CREEK SURFACE ELEVATION	
Contour Interval = 20 feet	Galeski Consulting
Scale 1 inch = 400 feet	Date July, 1977
AIRBORNE GEOPHYSICAL SURVEYS	

Charles [Signature]