# Ground Magnetometer and VLF-EM Survey COQUIHALLA PROJECT 

## INDEPENDENCE PROPERTY

Similkameen, New Westminster and Nicola Mining Divisions

NTS 092H10(W)


Work done on Independence CG (L. 1696), Bank CG (L. 1695), Butte CG (L. 1694), Homestead CG (L. 1697), Camsell 1 and Camsell 1A Mineral Claims.

## owned by

## NUFORT RESOURCES INC. (J.A. Harquail)

North York, Ontario
report by
Charles A.R. Lammle, P.Eng. 23March1996 - SSESSMENTREPOR


## TABLE OF CONTENTS

INTRODUCTION ..... 1
Summary of Work Done ..... 1
Location, Access, Geography, Physiography ..... 1
Mineral Claims ..... 2
GEOLOGY ..... 3
GEOPHYSICAL SURVEY ..... 4
Interpretation of Ground Magnetometer Results ..... 4
Interpretation of Ground VLF-EM Results ..... 5
CONCLUSIONS ..... 7
STATEMENT OF EXPENDITURES INCURRED ..... 8
BIBLIOGRAPHY ..... 9
LIST OF DRAWINGS ..... 10

1) DWG $950124-01$ GSM-19 Total Field Ground Magnetics
2) DWG 950124-02 GSM-19 VLF-EM Field Strength (\%) Cutler, MA3) DWG 950124-03 GSM-19 VLF-EM In-Phase Results4) DWG 950124-04 GSM-19 VLF-EM Out-of-Phase Results11

APPENDIX No I, Printout of Geophysical Readings

## INTRODUCTION

Summary of Work Done During October 1995, Amex Exploration Services of Kamloops, B.C., was commissioned by J.A. Harquail, President of Nufort Resources Inc., to do a small mineral claim assessment work program on the subject claims. C.A.R. Lammle, PEng. (the writer) agreed to draft the digital data and write up the report without the benefit of a visit to the property. Lammle has been familiar with the work of Amex Exploration Services and with the quality of Amex personnel and supervision for some three decades. He is also familiar with the field work and diligence of Percy Cox, the Amex geophysical operator on this project, mainly because of joint work during the 1995 field season in the same capacities on another unrelated property with the same geophysical instrument, but partly because of involvement in work programs during previous years on other properties. On the basis of this past involvement in exploration programs, the writer can unequivocally endorse the work of Amex Explorations Services, and that of Percy Cox as well.

The field work was done during 18-20 October 1995. Instrument used was the Gem Systems GSM-19 proton precession magnetometer/VLF-EM combination. VLF-EM transmitter read was Cutler, Maine. Control lines used were old ones that had been cut several years ago. A total of 6.2 km of line were covered, with instrument readings at 25 m for total field magnetics, and VLF-EM field strength, in-phase, out-ofphase, horizontal component and vertical component. Diurnal corrections to the magnetic readings were facilitated by re-reading a base station at regular daily intervals.

Location, Access, Geography, Physiography Geologically, the claims cover a copper-mineralized portion of the intrusive contact between the east margin of the Eagle Granodiorite and Nicola Group strata. Geographically, the area is 40 km northwest of Princeton, B.C. at $120^{\circ} 58^{\prime} \mathrm{W}$ longitude; $49^{\circ} 38.3^{\prime} \mathrm{N}$ latitude; $\sim 1645 \mathrm{~m}$ elevation. The claims are located 5 air-km easterly from the Coquihalla Highway toll booth, on the divide between drainages to Coquihalla and Tulameen Rivers. Three mining divisions adjoin each other on the height of land there - Similkameen, New Westminster and Nicola. Access is via old mountain logging roads that branch from the Coquihalla Highway at Coldwater River, then trend southerly about 1 km before crossing the pipe line right-of-way, and then wind easterly up the mountain about 4 km to the claims.

Physiographically, the area is on the transitional, arbitrary boundary between the Interior Plateau and Coast Mountains. At this point the major physiographic
subdivisions have been sub-divided into Thompson Plateau and Cascade Mountains. The Cascade Mountains are composed of Paleozoic and Mesozoic sedimentary and volcanic rocks that have been strongly folded, metamorphosed and intruded by granitic textured batholiths. The summits and peaks commonly reach a uniform level, which leads to the belief that the mountains are the result of erosional dissection of a Late Tertiary erosion surface. The Thompson Plateau is a rolling upland formed by Late Tertiary erosion. Relief is moderate, elevations for the most part are between $1200-1500 \mathrm{~m}$, but rise on occasion to more than 2000 m . The plateau is underlain by diverse rock types, mainly Paleozoic sediments, volcanics and granitic plutons, all of which are locally overlain by Tertiary sediments and basaltic flows.

Drainage from the area is northeasterly via Coldwater River, southeasterly via Lawless Creek and Tulameen River, and southwesterly via Coquihalla River. The area is the part of Kamloops Forest District that is administered from Merritt.

Mineral Claims The property was discovered in 1901 and has been known since as the Independence, after the name of one of the four crown grants there. Four additional four-post claims totalling 48 units - the Camsell Claims - were staked around the crown grants during 1995. A six kilometre strike length along the favourable intrusive contact between granodiorite and Nicola Group is covered by the claims.
This claim area has been the subject of several previous assessment work reports. The claims are as shown in the available file data; title has not been verified independently. A list of the claims follows:

| CLAIM | TENURE | UNITS | EXPIRY |
| :--- | :---: | :---: | :---: | :---: |
| Independence Crown Grant | L. 1696 | unit | pay tax |
| Butte Crown Grant | L. 1694 | 1 unit | pay tax |
| Bank Crown Grant | L. 1695 | 1 unit | pay tax |
| Homestead Crown Grant | L. 1697 | 1 unit | pay tax |
| Camsell 1 | 335924 | 8 units | 07 May96 |
| Camsell 1A | 335925 | 12 units | 07 May96 |
| Camsell 2 | 335926 | 16 units | 07 May96 |
| Camsell 3 | 335927 | 12 units | 04 May96 |

The four four-post claims were staked by Amex Exploration Services Ltd. of Kamloops, B.C., which company has earned and maintained the respect of industry and government during the last 30 years.

GEOLOGY The Nicola Group is made up of Upper Triassic volcanic and sedimentary rocks. The volcanics are of both submarine (dark green to black rocks) and subaerial (hematite red to purple rocks) which suggests volcanoes rising out of the sea, with periodic basalt-andesite flows, flow-breccias, tuffs, water-lain sediments, argillite, coral limestone, and stocks and small batholiths of granitic textured rocks. Common alteration minerals are chlorite, epidote, calcite and hematite. The whole assemblage is commonly folded and faulted, and hornfelsed near intrusive bodies. Nicola rocks have been widely explored for large bodies of disseminated copper sulphides (as at Copper Mountain), and for large disseminated copper-gold skarn deposits (as at Hedley). Important deposits of disseminated molybdenite are present (as at Brenda), and small high-grade gold quartz veins are also present. Also, chromite, magnetite and small amounts of platinum occur in ultrabasic rocks.

In the Coquihalla area, intrusive rocks are of two main age groups - the first (Coast Range Intrusions) old enough to intrude Lower Cretaceous strata, and the second, (Otter Intrusions) young enough to be covered by the Lower Cretaceous strata. The older types are very widely distributed, forming batholiths, stocks, sills and dykes, of zoned composition ranging from early basic and ultrabasic types to quartz diorite and grey granodiorite. The Eagle Granodiorite forms a narrow northwest-trending belt. Foliation in the rock is parallel with the long direction of the batholith. Rice observed relative conformity between the pluton and rocks of Nicola Group and believed that the intrusion came in along the bedding, possibly by granitization processes.

Camsell describes the Nicola Group rocks at the Independence Property as chlorite, sericite and hornblende shists dipping steeply to the west. He goes on to state that the Eagle Granodiorite lies to the west, and that in between the two is a large dyke of granite porphyry, mineralized with pyrite, pyrrhotite, copper sulphides and copper carbonates, which cuts both Nicola Group and Eagle Granodiorite. The granodiorite is altered to quartz, sericite and calcite, and there is some secondary surficial enrichment in the form of cuprite and chalcocite. Presumably, this dyke would correlate with the younger Otter Intrusions. Camsell goes on to state that the mineralization at Independence "are replacement deposits of the Butte type."

As of 1913, the main (Granby?) workings at Independence consisted of more than 305 m of underground tunnels and drifts, 81 m of shafts and a number of open-cuts and prospect pits. The main tunnel was said to be 152 m long, with a 38 m raise to surface at the 119 m mark in the tunnel. At the 110 m mark, drifts totalling 148 m were driven into each of the walls, and one of the drifts had a winze that descended 16 m .

Cairnes (1924) describes the setting as massive granodiorite and small masses of pyroxenite intruding slates, quartzites, mica schists, siliceous shists, interbedded volcanic greenstones and mashed granite porphyries.

## GEOPHYSICAL SURVEY The geophysical work was done by Percy Cox,

 geophysical operator for Amex Exploration Services. Mr. Cox is a very competent explorationist, and he is quite capable of operating the GSM-19 magnetometer/VLF-EM instrument used in this survey, having devoted most of his summer during 1995 surveying with it, in conjuction with the author, on another unrelated property. The GSM-19 magnetometer is a proton precession magnetometer that reads to 0.01 nT , it is self recording and unloads directly to personal computer for data processing. When coupled with the GEM Systems VLF-EM receiver, it works as a one-man mag/VLF-EM instrument. Data recorded is time-of-day, easting, northing, total field magnetics; and VLF-EM field strength, in-phase, out-of-phase, and horizontal and vertical components of the field strength. When operated without a second base station instrument, diurnal corrections must be made, and these corrections (final column of data) are based on assumed straight line variation between successive readings taken at different times at a common station established in the field.During the course of this survey, 327 stations were read. A printout of these readings is attached as Appendix I . Most of the readings were spaced at 25 m intervals along the former grid lines; a few were taken for prospecting purposes along trenches, but the VLF-EM results for these trench readings were not used. The field base station, 90 m southwest of the old camp buildings, established in the field for purposes of diurnal variation corrections to the magnetometer readings was assumed to have a total field magnetic intensity value of $56,818 \mathrm{nT}$.

Interpretation of Ground Magnetometer Results
The total field ground magnetometer results are shown on DWG 960123-01, attached. For purposes of the interpretation, this map (and the others relating to the VLF-EM) show the eastern margin of the Eagle Granodiroite as a broad dashed orange line; two other thinner red lines made of dashes of different style, depict the copper-in-soils geochemical anomaly as two enclosing envelopes, the internal envelope being the area of strongly anomalous soil copper, and the outside envelope being the area of moderately anomalouse soil copper. Also shown on these maps are the roads, trenches, creeks, drill hole traces, shafts and underground workings. All of these features originated during previous work programs and are not claimed herein for assessment work credit.

As one might expect, the pattern of magnetic anomalies formed by the ground magnetic survey trends north-northwesterly, reflecting the major geological feature of the area - the contact between the granodiorite and the Nicola Group. However, the area covered by the survey is very small compared to the large size of the geological features, and this leads to the possibility that one might not "see the forest because of being too close to a tree", geophysically speaking.

The plotted eastern contact of the Eagle Granodiorite runs through a paralleling, broad magnetic low. This low extends from 100 m or so on the west side of the contact to 400 m on the eastern side of the contact. It probably represents an area of alteration in which magnetic minerals have been changed to non-magnetic forms. This broad magnetic low coincides with the area of strong Cu -in-soils anomalies (outlined by the marginal and strong internal envelopes) shown by the dashed magenta-coloured lines. this soil geochemical survey was performed years ago, and is meretly summarized here. Strongest known copper mineralization is located along the northeastern central portion fo the Independence Claim, just east of and paralleling the contact, and is undercut by an adit, a shaft and several drill holes. Anomalies flanking this area of 'interpreted alteration' gradually show north-northwesterly elongate magnetic anomalies that reflect the character of the bedrock, both Nicola Group and Eagle Granodiorite.

## Interpretation of Ground VLF-EM Results

The Gem Systems VLF-EM results -- field strength (\%), in-phase and out-of-phase -- as measured from the Cutler Maine transmitting station, are shown on attached drawings DWG $960124-02,-03$ and -04, respectively. The Cutler transmitter is optimallyl oriented relative to the geological features to enable excellent response from conductors trending in the west-northwest direction, and good response from any conductor that might be parallel to the major igneous contact crossing the property here. However, the 'tree' and 'forest' analogy apply in the VLFEM case just as in the ground magnetometer case.

Rock on the northern one-half of the Independence Claims, spanning the contact, is shown by this Field Strength Survey to be broadly and moderately conductive. This conductive area lies over the broad magnetic low that follows the igneous contact. The area of best known copper mineralization (in vicinity of the Independence Adit and Independence Shaft) is within this area of broad moderate conductivity. Areas southeast and northeast of the Independence Claim (areas shown with black contour lines having negative values) are non conductive. The conductive area would appear to direct exploration attention to remaining portions of the Independence Claim, at the expense of the portions of the other claims covered.

The In-phase and out-of-phase results are included herein for the sake of completeness. Neither of these two maps would appear to help much with regards to further exploration.

## CONCLUSIONS

1) The area covered by the survey is too limited in areal extent to be very useful with regards to meaningful interpretation along the mineralized, major intrusive contact crossing the claims;
2) A broad magnetic low, outlined in part by a previous copper-in-soils survey, up to 500 m in width is interpreted to parallel the major intrusive contact;
3) The northerly portion of the Independence Claim, in the area of best known bedrock mineralization is shown to be broadly and moderately conductive by the Field Strenght survey, as measured from the frequency broadcast by the Cutler, MA, transmitter. This area is believed to have the best exploration possibilities within the area covered by this limited survey;
4) Results from the in-phase and out-of-phase readings, included for the sake of completeness, do not appear to assist with the selection of additional exploration targets.
5) Additional work of the same kind, extending appreciably further to the NNW and SSE, on lines that extend further to the northeast and southwest from the contact, would likely outline new exploration targets. Such a program should be undertaken early in the year after the snow has melted, and is hereby recommended.


## STATEMENT OF EXPENDITURES INCURRED

## STATEMENT OF EXPENDITURES INCURRED

Charles A.R. Lammle \$ 1872.50
Amex Exploration Services Ltd. ..... 2969.24$\$ 4841.74$
CHARLES A.R. LAMMLE

| 304-3846 CARRIGAN COURT |
| :--- |
| BURNABY, B. C. V3N 4H9 |$\quad$ NUFORT RESOURCES INC

## R138278536



GST @ 7\% ON $\$ 1,750.00 \quad \$ 122.50$

## EXPENSES

DATE LOCATIONANDDETAILS MEALS LODGING GASOLINE MISC. SUBTOTAL CONV. FACT
$\qquad$



# AMEX EXPLORATION SERVICES LTD. 

## AA. (Ab) ABLETT Qurs Confidential Work

Nufort Resources Inc. 122 Beechwood Avenue, North York; Ontario
M2L 1J7

Attention: Mr. Jim Harquail, President

## STATEMENT OF ACCOUNT

Re: Grid restoration and GSM-19 Ground Magnetometer and VLF-EM Survey, CAMSELL CLAIM GROUP, Nicola and Similkameen Mining Divisions. This work was performed during the period October 18 to $20,1995$.

AMEX COSTS
3 crew-days @ $\$ 798.33$ per day $=\$ 2394.99$
(includes board, accommodation; wages, CPP; UI, WC, HP, gasoline, vehicle, tyvek stationing, field supplies, profit, overhead and insurances).

DIRECT COSTS

| GSM-1 | MAG \& EM rental | 2 days x \$190 |  | 380.00 |
| :---: | :---: | :---: | :---: | :---: |
| GST on | \$2774.99 |  |  | 194.25 |
|  | Total rea | sted |  | 969.24 |

Respectfully submitted,
A.A Abrett, President,
<Amex exploration Services Ltd.
AMEX GST No. R100189430
Amex Job No. 95-44.

## BIBLIOGRAPHY

1) Rice, H.M.A., 1960, Geology and Mineral Deposits of the Princeton Map-Area, British Columbia, GSC Mem 243, p136.
2) Cairnes, C.E., 1924, Coquihalla Area, B.C., GSC Mem 139, p187.
3) Camsell, George, 1909, Tulameen District, British Columbia, GSC Sum Rept 1910, pp104-117.
4) Camsell, George, 1913, Geology and Mineral Deposits, Tulameen District, B.C., GSC Mem 26, p188.
5) Ablett, A.A., 1995, Hand drafted claim maps.
6) Odessa Explorations Inc. 1988, Mount Henning Group, Camsell Group, Map showing Drill Hole Locations. 1:2,500.
7) Wilmot, A.D., 1973, Nufort Resources Inc., Independence Group, Coquihalla, B.C., Plan of Drill Holes and Workings on Surface and Underground (L.1696)
8) Vincent J.S., 1981, Nufort Resources Inc., Independence Property, Geochemical Map, Copper-in-Soil (ppm), Glen E. White Geophysical Consulting Ltd.

## LIST OF DRAWINGS

1) DWG 950124-01
2) DWG 950124-02
3) DWG $950124-03$
4) DWG 950124-04

## LIST OF APPENDICIES

APPENDIX No I, Printout of Geophysical Readings

| CAMSELL | NORTHG | EASTG | MAG-COR | MAG-RAW | FSt\% | $\boldsymbol{I n}-\mathrm{Ph}$ | Out-Ph | h-Comp | $v$-Comp | diurn-corr |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 140506 | 0 | 0 | 57498.87 | 57475.87 | 14.3 | 7 | 68 | 8 | 1 | 23 |
| 140550 | -1 | 25 | 57379.92 | 57357.92 | 12.8 | 7.3 | 65 | 15 | 1 | 22 |
| 140630 | -2 | 50 | 57352.33 | 57331.33 | 14 | 7.8 | 65 | 17 | 1 | 21 |
| 140738 | -3 | 75 | 57298.28 | 57278.28 | -2.5 | -3.4 | 60 | 30 |  | 20 |
| 140830 | -4 | 100 | 57243.74 | 57223.74 | -5.9 | -0.5 | 67 | 13 | 1 | 20 |
| 140906 | -5 | 125 | 57930.19 | 57911.19 | -7.9 | -2.6 | 59 | 13 | 0.9 | 19 |
| 140942 | -6 | 150 | 56908.09 | 56890.09 | -4.1 | -2.4 | 60 | 11 | 0.9 | 18 |
| 141022 | -7 | 175 | 56656.2 | 56639.2 | -6.9 | -3.7 | 58 | 16 | 0.9 | 17 |
| 141110 | -8 | 200 | 56929.25 | 56913.25 | -5.1 | -1.5 | 56 | 16 | 0.9 | 16 |
| 141146 | -9 | 225 | 56834.07 | 56819.07 | -3.8 | -1.6 | 55 | 11 | 0.8 | 15 |
| 141222 | -10 | 250 | 56967.59 | 56953.59 | 0.6 | -1.9 | 52 | 17 | 0.8 | 14 |
| 141442 | -11 | 275 | 56902.58 | 56889.58 | 1.1 | -0.8 | 50 | 13 | 0.8 | 13 |
| 141558 | -12 | 300 | 57088.14 | 57075.14 | 0.4 | -3 | 46 | 13 | 0.7 | 13 |
| 141722 | -37 | 300 | 57070.25 | 57058.25 | 3.4 | 7.2 | 24 | 71 | 0.6 | 12 |
| 141814 | -62 | 300 | 57069.83 | 57057.83 | 3.6 | 4.2 | 33 | 76 | 0.6 | 12 |
| 141902 | -87 | 300 | 57315.85 | 57304.85 | 4 | 7.2 | 36 | 81 | 0.7 | 11 |
| 141938 | -112 | 300 | 57004.36 | 56994.36 | -2.1 | 5.9 | 30 | 95 | 0.7 | 10 |
| 142006 | -137 | 300 | 56987.83 | 56977.83 | -8.3 | 5.5 | 27 | 88 | 0.7 | 10 |
| 142042 | -163 | 300 | 56914.03 | 56905.03 | -10.2 | 6.9 | 38 | 87 | 0.7 | 9 |
| 142114 | -187 | 300 | 56841.27 | 56832.27 | -11.5 | 8.8 | 39 | 86 | 0.7 | 9 |
| 142146 | -212 | 300 | 56826.12 | 56818.12 | -20.1 | 5 | 33 | 88 | 0.7 | 8 |
| 142218 | -237 | 300 | 56822.82 | 56814.82 | -24.3 | 6.7 | 27 | 86 | 0.7 | 8 |
| 142254 | -262 | 300 | 56894.27 | 56887.27 | -20.4 | 12.6 | 22 | 80 | 0.6 | 7 |
| 142426 | -287 | 300 | 56851.29 | 56844.29 | -21.3 | 13.4 | 24 | 70 | 0.5 | 7 |
| 142502 | -312 | 300 | 56880.08 | 56874.08 | -14.9 | 15.2 | 15 | 90 | 0.7 | 6 |
| 142534 | -337 | 300 | 57201.36 | 57195.36 | -33.4 | 8.9 | 23 | 77 | 0.6 | 6 |
| 142630 | -363 | 300 | 57640.5 | 57635.5 | -48.4 | 4 | 15 | 69 | 0.5 | 5 |
| 142706 | -387 | 300 | 57486.84 | 57481.84 | -26.6 | 10.2 | 10 | 82 | 0.6 | 5 |
| 142742 | -412 | 300 | 57488.14 | 57484.14 | -32.6 | 3.5 | 12 | 67 | 0.5 | 4 |
| 142826 | -437 | 300 | 57231.89 | 57227.89 | -35.4 | 5.2 | 27 | 55 | 0.4 | 4 |
| 142906 | -462 | 300 | 57214.92 | 57211.92 | -34.3 | 1.6 | 36 | 63 | 0.5 | 3 |
| 142950 | -487 | 300 | 57260.54 | 57257.54 | -28.3 | -2.7 | 23 | 63 | 0.5 | 3 |
| 143146 | -512 | 300 | 57409.88 | 57407.88 | -14.7 | 5.6 | 29 | 66 | 0.5 | 2 |
| 145450 | 0 | 300 | 57090.98 | 57092.98 | 4.4 | -1.4 | 27 | 74 | 0.6 | -2 |
| 145542 | 25 | 300 | 56593.62 | 56597.62 | -4.7 | -0.2 | 31 | 86 | 0.7 | -4 |
| 145618 | 50 | 300 | 56415.2 | 56421.2 | -6.6 | -2.4 | 36 | 100 | 0.8 | -6 |
| 145834 | 75 | 300 | 56624.8 | 56632.8 | -9.5 | -1.6 | 31 | 103 | 0.8 | -8 |
| 150102 | 100 | 300 | 56467.07 | 56477.07 | -12.4 | -1.9 | 18 | 106 | 0.8 | -10 |
| 152222 | -144 | 128 | 56864.94 | 56876.94 | 2.8 | 9.1 | 63 | 24 | 1 | -12 |
| 152302 | -134 | 124 | 56885.64 | 56899.64 | 5.5 | 11 | 62 | 26 | 1 | -14 |
| 152326 | -125 | 121 | 56839.86 | 56844.86 | 6.8 | 10.6 | 63 | 27 | 1.1 | -5 |
| 152406 | -116 | 117 | 56904.45 | 56922.45 | 3.2 | 7.2 | 69 | 18 | 1.1 | -18 |
| 152430 | -106 | 114 | 56857.28 | 56877.28 | 2.3 | 5.2 | 70 | 15 | 1.1 | -20 |
| 152458 | -96 | 114 | 56840.6 | 56862.6 | 4.8 | 6.8 | 67 | 21 | 1.1 | -22 |
| 152526 | -86 | 114 | 56875.84 | 56899.84 | 3.7 | 4.8 | 68 | 11 | 1.1 | -24 |
| 152602 | -106 | 114 | 56860.75 | 56886.75 | 4.3 | 6.2 | 68 | -16 | 1.1 | -26 |
| 152746 | -96 | 114 | 56841.63 | 56869.63 | 7.6 | 5 | 68 | 15 | 1.1 | -28 |
| 152830 | -86 | 114 | 56873.97 | 56903.97 | -6.8 | 1.9 | 11 | -42 | 0.7 | -30 |
| 152854 | -76 | 150 | 56906.48 | 56946.48 | 6 | 7.2 | 39 | -103 | 0.8 | -40 |
| 152914 | -74 | 104 | 56956.83 | 57000.83 | 10 | 10.6 | 92 | 94 | 1 | -44 |
| 152934 | -71 | 94 | 56998.92 | 57046.92 | 12.6 | 11 | 117 | 69 | 1 | -48 |
| 152954 | -69 | 84 | 57038.12 | 57090.12 | 9.8 | 8.9 | 120 | 63 | 1 | -52 |
| 153014 | -65 | 75 | 56955.83 | 57011.83 | 8.4 | 6.9 | 113 | 60 | 1 | -56 |
| 153038 | -60 | 66 | 56966.04 | 57026.04 | 7.6 | 7.1 | 114 | 74 | 1 | -60 |
| 153058 | -56 | 57 | 56970.89 | 57034.89 | 9 | 8.6 | 99 | 79 | 1 | -64 |
| 153118 | -52 | 48 | 57020.96 | 57086.96 | 10.4 | 10.2 | 106 | 76 | 1 | -66 |
| 153138 | -47 | 39 | 56978.87 | 57046.87 | 9.3 | 8.6 | 110 | 69 | 1 | -68 |
| 153202 | -46 | 29 | 56961.99 | 57031.99 | 7.4 | 5.7 | 103 | 76 | 1 | -70 |
| 153222 | -45 | 20 | 56948.46 | 57020.46 | 4.6 | 4.1 | 79 | 99 | 1 | -72 |
| 153246 | -40 | 11 | 57014.68 | 57090.68 | 12 | 11.7 | 81 | 98 | 1 | -76 |
| 153306 | -35 | 3 | 57106.86 | 57183.86 | 12.6 | 11.1 | 95 | 84 | 1 | -77 |
| 153330 | -29 | -6 | 57045.79 | 57123.79 | 12.9 | 6.6 | 112 | 64 | 1 | -78 |
| 153354 | -24 | -14 | 57122.66 | 57201.66 | 15.4 | 5.4 | 124 | 16 | 1 | -79 |
| 154954 | -98 | 300 | 57005.03 | 57086.03 | -5.3 | 6.6 | 45 | 7 | 1.4 | -81 |
| 155050 | -98 | 275 | 56911.09 | 56993.09 | -0.5 | 7.3 | 86 | 15 | 1.4 | -82 |
| 155146 | -100 | 250 | 56865.84 | 56948.84 | 6 | 8.3 | 87 | 20 | 1.4 | -83 |
| 155314 | -97 | 225 | 56942.37 | 57026.37 | 6.9 | 9.9 | 76 | 40 | 1.3 | -84 |


| 155406 | -97 | 200 | 56971.79 | 57056.79 | 8.2 | 8.9 | 82 | 15 | 1.3 | -85 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 155442 | -100 | 175 | 56938.48 | 57024.48 | 8 | 9.7 | 81 | 12 | 1.3 | -86 |
| 155526 | -100 | 150 | 57013.62 | 57100.62 | 9.9 | 9.6 | 81 | 13 | 1.3 | -87 |
| 155558 | -100 | 125 | 56972.9 | 57061.9 | 9.3 | 9.6 | 79 | 13 | 1.2 | -89 |
| 155654 | -100 | 100 | 56929.35 | 57019.35 | 7.4 | 6.1 | 79 | 13 | 1.2 | -90 |
| 155806 | -100 | 75 | 56988.63 | 57079.63 | 10.6 | 7.7 | 82 | 20 | 1.3 | -91 |
| 155910 | -100 | 50 | 56942.8 | 57034.8 | 12.8 | 6.6 | 82 | -5 | 1.3 | -92 |
| 155954 | -100 | 25 | 56993.75 | 57086.75 | 13.4 | 7.1 | 79 | -16 | 12 | -93 |
| 160046 | -100 | 0 | 57040.5 | 57134.5 | 16.5 | 10 | 78 | 13 | 1.2 | -94 |
| 160126 | -100 | 25 | 57118.93 | 57213.93 | 13.7 | 6.1 | 75 | 10 | 1.2 | -95 |
| 160250 | -100 | 50 | 57068.76 | 57164.76 | 12.3 | 3.3 | 75 | 4 | 1.1 | -96 |
| 160322 | -100 | 75 | 57012.94 | 57109.94 | 10 | 3.7 | 76 | 4 | 1.2 | -97 |
| 160402 | -100 | 100 | 56995.35 | 57093.35 | 8.6 | 2.4 | 72 | 17 | 1.1 | -98 |
| 160802 | -198 | -101 | 57002.39 | 57101.39 | 15.1 | 0.9 | 80 | 16 | 1.3 | -99 |
| 160858 | -197 | -76 | 56986.42 | 57086.42 | 17.1 | 2.4 | 81 | 16 | 1.3 | -100 |
| 160942 | -196 | -51 | 56980.27 | 57081.27 | 13.5 | 0.6 | 83 | 25 | 1.3 | -101 |
| 161034 | -194 | -26 | 56891.25 | 56993.25 | 8.2 | -1.2 | 92 | 23 | 1.5 | -102 |
| 161234 | -193 | -1 | 56833.03 | 56936.03 | 3.6 | -3.8 | 91 | 24 | 1.5 | -103 |
| 161326 | -194 | 24 | 56891.86 | 56995.86 | 2.4 | 0.5 | 90 | 17 | 1.4 | -104 |
| 161354 | -194 | 49 | 56865.25 | 56970.25 | -0.8 | -1.4 | 94 | 11 | 1.5 | -105 |
| 161430 | -194 | 75 | 56862.93 | 56967.93 | 0 | 0 | 86 | 23 | 1.4 | -105 |
| 161514 | -195 | 100 | 56860.5 | 56966.5 | 1.5 | 3.5 | 85 | 23 | 1.4 | -106 |
| 161614 | -195 | 125 | 56851.53 | 56957.53 | 1.6 | 4.5 | 90 | 21 | 1.4 | -106 |
| 161722 | -195 | 150 | 56850.35 | 56957.35 | -2.6 | 1.9 | 92 | 33 | 1.5 | -107 |
| 161814 | -195 | 175 | 56869.38 | 56976.38 | -4.1 | 3.3 | 86 | 38 | 1.5 | -107 |
| 162018 | -195 | 200 | 56824.2 | 56931.2 | -13.3 | 1.6 | 92 | 25 | 1.5 | -107 |
| 162050 | -195 | 225 | 56800.63 | 56908.63 | -12.9 | 5.2 | 86 | 26 | 1.4 | -108 |
| 162206 | -195 | 250 | 56761.88 | 56869.88 | -16.5 | 6.3 | 88 | 33 | 1.5 | -108 |
| 162330 | -195 | 275 | 56816.95 | 56925.95 | -24.3 | 4.5 | 89 | 23 | 1.4 | -109 |
| 162534 | -195 | 300 | 56832.48 | 56941.48 | -27.2 | 4.2 | 83 | 11 | 1.3 | -109 |
| 101018 | -157 | -42 | 56860.42 | 56867.42 | -7.5 | 1.3 | 2 | 59 | 0.9 | -7 |
| 101054 | -149 | -47 | 56882.76 | 56889.76 | -7 | 1.1 | -21 | 52 | 0.8 | -7 |
| 101126 | -140 | -52 | 56941.15 | 56948.15 | -13.8 | -1.6 | -15 | 49 | 0.8 | -7 |
| 101154 | -131 | -56 | 57096.5 | 57102.5 | -15 | 0.3 | 57 | 69 | 0.7 | -6 |
| 101246 | -122 | -61 | 57010.6 | 57016.6 | -18.3 | -1 | 79 | 59 | 0.7 | -6 |
| 101322 | -113 | -66 | 57039.78 | 57045.78 | -19.2 | -4 | 96 | 51 | 0.8 | -6 |
| 101410 | -104 | -70 | 56985.75 | 56991.75 | -14.9 | -6.3 | 96 | 52 | 0.8 | -6 |
| 101442 | -96 | -75 | 56950.23 | 56955.23 | -11.1 | -3.6 | 118 | 43 | 1 | -5 |
| 101518 | -100 | -84 | 57020.87 | 57025.87 | -15.7 | -9.5 | 124 | -2 | 0.9 | -5 |
| 101546 | -104 | -93 | 57128.6 | 57133.6 | -17.8 | -5.7 | 67 | 2 | 1 | -5 |
| 101618 | -108 | -102 | 57154.03 | 57159.03 | -16.1 | -4.7 | 65 | 4 | 1 | -5 |
| 101646 | -113 | -111 | 57067.65 | 57071.65 | -14 | -3.7 | 60 | 23 | 1 | -4 |
| 101718 | -117 | -120 | 56976.55 | 56980.55 | -14.3 | -0.6 | 58 | 17 | 0.9 | -4 |
| 101746 | -121 | -129 | 57015.76 | 57019.76 | -15.2 | 0.7 | 63 | 6 | 1 | -4 |
| 101822 | -126 | -138 | 56944.06 | 56947.06 | -13.7 | -0.4 | 65 | 9 | 1 | -3 |
| 101850 | -130 | -147 | 56958.9 | 56961.9 | -15.4 | 2.1 | 66 | 10 | 1 | -3 |
| 101914 | -134 | -156 | 56906.92 | 56909.92 | -12.2 | -0.1 | 64 | 10 | 1 | -3 |
| 101958 | -138 | -166 | 57176.76 | 57179.76 | -8 | 0.5 | 64 | 17 | 1 | -3 |
| 102030 | -143 | -175 | 57066.44 | 57068.44 | -10.6 | 4 | 67 | 16 | 1 | -2 |
| 102058 | -147 | -184 | 57058.05 | 57060.05 | -11.3 | 3.5 | 69 | 11 | 1.1 | -2 |
| 102222 | -157 | -185 | 57493.19 | 57495.19 | -12.6 | 3.2 | 66 | 18 | 1.1 | -2 |
| 102330 | -167 | -187 | 57303.84 | 57305.84 | 25.5 | 1.8 | 15 | -24 | 0.4 | -2 |
| 102402 | -167 | -187 | 56872.03 | 56873.03 | 16.4 | 1 | 45 | 86 | 0.7 | -1 |
| 102434 | 175 | -182 | 56955.2 | 56956.2 | 28.8 | -2.8 | 29 | 26 | 0.3 | -1 |
| 102506 | -184 | -178 | 56992.13 | 56993.13 | 23.7 | -8 | 63 | 91 | 0.4 | -1 |
| 102538 | -193 | -173 | 56986.48 | 56987.48 | 26.4 | -4.1 | 68 | 95 | 0.4 | -1 |
| 102606 | -202 | -168 | 56953.76 | 56953.76 | 29 | -2.6 | 58 | 75 | 0.3 | 0 |
| 102634 | -211 | -163 | 56919.96 | 56919.96 | 38.2 | -4.3 | 56 | 69 | 0.3 | 0 |
| 102926 | -219 | -158 | 56932.03 | 56932.03 | 8.9 | 4.2 | 18 | 61 | 1 | 0 |
| 102954 | -228 | -153 | 56883.58 | 56883.58 | 10 | 2.5 | 0 | 59 | 0.9 | 0 |
| 103226 | -237 | -149 | 56892.28 | 56892.28 | 6.6 | -3.5 | 75 | 1 | 1.2 | 0 |
| 103250 | -276 | -78 | 56843.49 | 56842.49 | 4.4 | -0.3 | 71 | 2 | 1.1 | 1 |
| 103314 | -273 | -59 | 56878.76 | 56877.76 | 5.2 | -2.6 | 74 | -2 | 1.1 | 1 |
| 103350 | -270 | -50 | 56878.76 | 56877.76 | 9.7 | -1.3 | 71 | -13 | 1.1 | 1 |
| 103414 | -266 | -40 | 56893.76 | 56892.76 | 5.6 | -3.1 | 75 | 0 | 1.1 | 1 |
| 103542 | -263 | -31 | 56917.1 | 56915.1 | 6.1 | -1.3 | 72 | 0 | 1.1 | 2 |
| 105914 | -362 | 300 | 57268.49 | 57266.49 | -18.4 | 5.2 | 58 | 16 | 0.9 | 2 |
| 110102 | -362 | 275 | 57521.22 | 57519.22 | --28.4 | 0.6 | 55 | 21 | 0.9 | 2 |


| 110334 | -362 | 250 | 57345.83 | 57343.83 | -30 | 1.9 | 56 | 25 | 0.9 | 2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 110502 | -361 | 225 | 57045.59 | 57043.59 | -29.2 | -3.5 | 65 | 18 | 1 | 2 |
| 110654 | -361 | 200 | 56974.21 | 56972.21 | -19.5 | 1 | 70 | 12 | 1.1 | 2 |
| 110826 | -361 | 175 | 56966.18 | 56964.18 | -16.4 | 2.4 | 64 | 20 | 1 | 2 |
| 110906 | -361 | 150 | 56946.06 | 56944.06 | -13.2 | 2.6 | 66 | 13 | 1 | 2 |
| 111414 | -361 | 125 | 56891.76 | 56889.76 | -12 | -0.5 | 65 | 21 | 1 | 2 |
| 111454 | -360 | 100 | 56921.45 | 56919.45 | -14.7 | -0.8 | 69 | 11 | 1.1 | 2 |
| 111614 | -360 | 75 | 56902.71 | 56900.71 | -9.8 | 0.8 | 69 | 14 | 1.1 | 2 |
| 111654 | -360 | 50 | 56921.22 | 56919.22 | -12.6 | -0.2 | 67 | 15 | 1.1 | 2 |
| 111926 | -360 | 25 | 56941.82 | 56939.82 | -12.7 | -5.3 | 69 | 11 | 1.1 | 2 |
| 112010 | -360 | 0 | 56878.97 | 56876.97 | -7 | -0.2 | 77 | 12 | 1.2 | 2 |
| 112114 | -359 | -25 | 56927.43 | 56924.43 | -1.9 | 2 | 74 | 13 | 1.1 | 3 |
| 112214 | -359 | -50 | 56888.39 | 56885.39 | 3.1 | 0.5 | 71 | 20 | 1.1 | 3 |
| 112254 | -359 | -75 | 56892.73 | 56889.73 | 5.7 | 0 | 71 | 5 | 1.1 | 3 |
| 112430 | -359 | -100 | 56876.66 | 56873.66 | 7.5 | -1.4 | 67 | 19 | 1.1 | 3 |
| 112506 | -359 | -125 | 57247.44 | 57244.44 | 11 | 0.4 | 71 | 18 | 1.11 | 3 |
| 112538 | -359 | -150 | 56851.29 | 56848.29 | 11.5 | 2.5 | 63 | 24 | 1 | 3 |
| 112622 | -358 | -175 | 56887.93 | 56884.93 | 10.3 | -0.4 | 63 | 14 | 1 | 3 |
| 112706 | -358 | -200 | 56924.88 | 56921.88 | 8.6 | -2.8 | 58 | 19 | 0.9 | 3 |
| 113054 | -463 | -203 | 56859.73 | 56856.73 | -7.1 | -3.1 | 69 | 17 | 1.1 | 3 |
| 113202 | -462 | -178 | 56830.23 | 56827.23 | -2.1 | 0.2 | 61 | 25 | 1 | 3 |
| 113242 | -460 | -153 | 56864.6 | 56861.6 | -2.9 | -0.4 | 59 | 18 | 0.9 | 3 |
| 113318 | -460 | -128 | 56884.97 | 56881.97 | -4.8 | -3.3 | 58 | 21 | 0.91 | 3 |
| 113430 | -460 | -103 | 56948.22 | 56945.22 | -5.3 | -4 | 61 | 17 | 1 | 3 |
| 113514 | -460 | -78 | 56931.44 | 56927.44 | -16.6 | -13.6 | 63 | 11 | 1 | 4 |
| 113550 | -460 | -63 | 56865.12 | 56861.12 | -12.2 | -10.5 | 55 | 22 | 0.91 | 4 |
| 114026 | -460 | -28 | 56960.6 | 56956.6 | -11.8 | -6.9 | 51 | 25 | 0.9 | 4 |
| 114110 | -460 | -3 | 56948.11 | 56944.11 | -9.3 | -5.5 | 58 | 16 | 0.9 | 4 |
| 114150 | -460 | 22 | 56944.31 | 56940.31 | -11.1 | -4.9 | 56 | 17 | 0.9 | 4 |
| 114346 | -462 | 47 | 56979.95 | 56975.95 | -10.3 | $-6.8$ | 56 | 18 | 0.9 | 4 |
| 114438 | -462 | 72 | 56946.54 | 56942.54 | -12 | -7.2 | 58 | 14 | 0.9 | 4 |
| 114534 | -462 | 97 | 57012.63 | 57008.63 | -13.4 | -4.7 | 56 | 16 | 0.9 | 4 |
| 114658 | -460 | 122 | 56947.95 | 56943.95 | -12.2 | -3.2 | 53 | 18 | 0.8 | 4 |
| 114754 | -460 | 147 | 56949.72 | 56945.72 | -13.8 | -4.3 | 58 | 20 | 0.9 | 4 |
| 114850 | -460 | 172 | 56878 | 56874 | -17.8 | -5.8 | 56 | 14 | 0.9 | 4 |
| 115014 | -460 | 197 | 56944.98 | 56940.98 | -18 | -3.2 | 53 | 8 | 0.8 | 4 |
| 115106 | -460 | 222 | 57074.04 | 57070.04 | -15.4 | 0.5 | 50 | 13 | 0.8 | 4 |
| 115202 | -460 | 247 | 57178.32 | 57174.32 | -10.8 | -1.2 | 51 | 13 | 0.8 | 4 |
| 115238 | -460 | 272 | 57307.34 | 57302.34 | -10.3 | -1.5 | 47 | 13 | 0.7 | 5 |
| 115346 | -462 | 300 | 57527.18 | 57522.18 | -12.2 | -1.1 | 104 | 10 | 0.8 | 5 |
| 115442 | -462 | 322 | 57405.48 | 57400.48 | -9.8 | -2.7 | 101 | 27 | 0.8 | 5 |
| 115542 | -462 | 347 | 57321.64 | 57316.64 | -23.2 | -6.2 | 96 | 41 | 0.8 | 5 |
| 115626 | -462 | 372 | 57344.23 | 57339.23 | -14.1 | -3.6 | 89 | 29 | 0.7 | 5 |
| 115806 | -462 | 397 | 57198.72 | 57193.72 | -11.3 | -4.1 | 96 | 13 | 0.7 | 5 |
| 115858 | -462 | 422 | 57048.24 | 57043.24 | -16.4 | -5.5 | 95 | 27 | 0.7 | 5 |
| 115946 | -462 | 447 | 56969.49 | 56964.49 | -21.3 | -7.1 | 91 | 23 | 0.7 | 5 |
| 120130 | -462 | 472 | 57106.42 | 57101.42 | -22.8 | -8.9 | 87 | 25 | 0.7 | 5 |
| 120210 | -462 | 497 | 57051.97 | 57046.97 | -22.7 | -7.1 | 96 | 16 | 0.7 | 5 |
| 120246 | -462 | 523 | 57113.61 | 57108.61 | -19.4 | -6.6 | 90 | 22 | 0.7 | 5 |
| 120326 | -462 | 547 | 56987.4 | 56982.4 | -17 | -3.9 | 100 | 13 | 0.8 | 5 |
| 120518 | -462 | 572 | 57129.19 | 57124.19 | -13.9 | -1.1 | 101 | 18 | 0.8 | 5 |
| 120610 | -462 | 600 | 57288.06 | 57282.06 | -11.4 | 1.2 | 105 | 17 | 0.8 | 6 |
| 121014 | -437 | 597 | 56979.13 | 56973.13 | -18 | -3.6 | 17 | 103 | 0.8 | 6 |
| 121258 | -412 | 597 | 56826.37 | 56820.37 | -19 | 3.9 | 51 | 8 | 0.8 | 6 |
| 121358 | -412 | 572 | 57137.77 | 57131.77 | -19.3 | 2.4 | 53 | 10 | 0.8 | 6 |
| 121442 | -412 | 547 | 56890.08 | 56884.08 | -19.1 | 2.1 | 49 | 11 | 0.8 | 6 |
| 121538 | -412 | 522 | 57095.16 | 57089.16 | -21.3 | 2.2 | 52 | 5 | 0.8 | 6 |
| 121622 | -412 | 497 | 57046.71 | 57040.71 | -25.8 | 1.6 | 50 | 10 | 0.8 | 6 |
| 121726 | -412 | 472 | 56957.51 | 56951.51 | -25.3 | 2.2 | 49 | 27 | 0.8 | 6 |
| 122514 | -412 | 447 | 57106.91 | 57100.91 | -18.9 | 2.8 | 56 | 13 | 0.9 | 6 |
| 122610 | -412 | 422 | 57034.98 | 57028.98 | -21 | -0.8 | 51 | 14 | 0.8 | 6 |
| 122654 | -412 | 397 | 57056.74 | 57050.74 | -23.2 | -1.3 | 53 | 8 | 0.8 | 6 |
| 123306 | -387 | 597 | 56802.16 | 56796.16 | 18.9 | -1.3 | $2 \overline{4}$ | 95 | 0.7 | 6 |
| 123702 | -362 | 597 | 57018.7 | 57012.7 | -21 | 2.1 | 56 | 4 | 0.8 | 6 |
| 123802 | -362 | 572 | 56980.19 | 56973.19 | -25.2 | 0.9 | 56 | 8 | 0.9 | 7 |
| 123914 | -362 | 547 | 57013.18 | 57006.18 | -33.9 | -0.3 | 54 | 12 | 0.8 | 7 |
| 124006 | -362 | 522 | 57089.27 | 57082.27 | -30.3 | -0.6 | 54 | 17 | 0.9 |  |
| 124230: | -362 | 497 | 57082.87 | 57075.87 | -30.1 | 1.3 | 55 | 15 | 0.9 |  |


| 124326 | - 362 | 472 | 57020.32 | 57013.32 | -34.7 | 3.8 | 52 | 18 | 0.8 | 7 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 124414 | -362 | 447 | 57094.11 | 57087.11 | -31.4 | 3.5 | 54 | 12 | 0.8 | 7 |
| 124610: | -362 | 422 | 57060.94 | 57053.94 | -26.3 | 2.3 | 57 | 11 | 0.9 | 7 |
| 124746 | -362 | 397. | 57102.1 | 57095.1 | -24.4 | 5.7 | 56 | 20 | 0.9 | 7 |
| 124910 | -362 | 372 | 57167.31 | 57160.31 | -31.6 | -1.5 | 53 | 11 | 0.8 | 7 |
| 125030 | -362 | 347 | 57368.96 | 57361.96 | -43.8 | -5.6 | 47 | 21 | 0.8 | 7 |
| 125126 | -362 | 322 | 57371.91 | 57364.91 | -41.9 | -5.1 | 104 | 60 | 0.9 | 7 |
| 125214 | -362 | 3001 | 57260.84 | 57253.84 | -20.6 | 4.1 | 115 | 45 | 0.9 | 7 |
| 141918 | -199 | -100 | 56986.02 | 56980.02 | 16.9 | 4.6 | 70 | 9 | 1.1 | 6 |
| 142014 | -199 | -125 | -56956.49 | 56950.49 | 15.4 | 1.4 | 69 | 4 | 1.1 | 6 |
| 142102 | -199 | -150 | 58228.62 | 58222.62 | 10.9 | 1.1 | 66 | 12 | 1 | 6 |
| 142354 | -199 | -175 | 57034.16 | 57028.16 | 10.2 | 6.4 | 67 | 19 | 1.1 | 6 |
| 142430 | -199 | -200 | 56954.04 | 56949.04 | 11.4 | 0.6 | 67 | 20 | 1.1 | 5 |
| 142722 | -259 | -202 | 56895.94 | 56890.94 | 2.3 | -8.9 | 69 | 12 | 1.1 | 5 |
| 142954 | -259 | -177 | 56842.72 | 56837.72 | -0.8 | -8.9 | 70 | 10 | 1.1 | 5 |
| 143050 | -259 | -153 | 56891 | 56886 | 6.9 | -4.5 | 72 | 8 | 1.1 | 5 |
| 143122 | -259 | -127 | 56895.93 | 56891.93 | 9.9 | -3.4 | 74 | 8 | 1.1 | 4 |
| 143242 | -259 | -102 | 56907.7 | 56903.7 | 11.6 | -3.9 | 72 | 18 | 1.1 | 4 |
| 143618 | -260 | -77 | 56816.81 | 56812.81 | 10.2 | -2.6 | 71 | 19 | 1.1 | 4 |
| 143854 | -260 | -52 | 56880.95 | 56876.95 | 7.8 | -4 | 69 | 26 | 1.1 | 4 |
| 144014 | -260 | -27 | 56883.16 | 56879.16 | 0.9 | -1.3 | 72 | 34 | 1.2 | 4 |
| 144114 | -260 | -2 | 56872.33 | 56868.33 | 2.6 | -3.8 | 75 | 19 | 12 | 4 |
| 144150 | -261 | 23 | 56875.12 | 56872.12 | 0.4 | -2.8 | 73 | 28 | 1.2 | 3 |
| 144230 | -261 | 481 | 56843.54 | 56840.54 | -2.5 | 2.5 | 78 | 18 | 12 | 3 |
| 144310 | -261 | 731 | 56925.32 | 56922.32 | -0.2 | 2.1 | 83 | 11 | 1.3 | 3 |
| 144414 | -261 | 98 | 56918.16 | 56915.16 | -2 | 6.3 | 82 | 29 | 1.4 | 3 |
| 144750 | -261 | 123 | 56982.66 | 56979.66 | -14.6 | -4.8 | 82 | 16 | 1.3 | 3 |
| 144834 | -262 | 148 | 56938.65 | 56936.65 | -14.6 | 0.3 | 77 | 18 | 1.2 | 2 |
| 144918 | -262 | 172 | 56943.98 | 56941.98 | -13.6 | -3.1 | 77 | 19 | 12 | 2 |
| 145002 | -262 | 198 | 56999.11 | 56997.11 | -1.2 | -2.2 | 22 | 14 | 0.4 | 2 |
| 145046 | -262 | 223 | 56898.77 | 56896.77 | -10.8 | -5.8 | 50 | 20 | 0.4 | 2 |
| 145130 | -262 | 248 | 56997.99 | 56996.99 | -13.9 | -1.3 | 51 | 17 | 0.4 | 1 |
| 145226 | -263 | 273 | 57015.91 | 57014.91 | -11.9 | -1.9 | 51 | 14 | 0.4 | 1 |
| 145306 | -263 | 298 | 57229.94 | 57228.94 | -20.2 | -1 | 47 | 15 | 0.3 | 1 |
| 145442 | -263 | 323 | 57339.91 | 57338.91 | -37.7 | 11.4 | 127 | 14 | 0.5 | 1 |
| 145538 | -263 | 348 | 57227.46 | 57227.46 | -7.8 | 12.9 | 121 | 8 | 0.9 | 0 |
| 145622 | -264 | 373 | 57170.88 | 57170.88 | -3.3 | 11.6 | 93 | 13 | 1.5 | 0 |
| 145702 | -264 | 398 | 57062.87 | 57062.87 | -15.8 | 6.7 | 99 | 17 | 1.6 | 0 |
| 145858 | -264 | 423 | 57047.72 | 57047.72 | -24.3 | 4.2 | 94 | 14 | 1.5 | 0 |
| 145946 | -264 | 448 | 57006.94 | 57006.94 | -27.4 | 5 | 93 | 14 | 1.5 | 0 |
| 150022 | -264 | 473 | 57000.06 | 57001.06 | -27.9 | 5.3 | 93 | 8 | 1.4 | -1 |
| 150058 | -265 | 498 | 56971.26 | 56972.26 | -27.3 | 7 | 92 | 11 | 1.4 | -1 |
| 150254 | -265 | 523 | 56956.02 | 56957.02 | -30.8 | 5.4 | 90 | $\overline{7}$ | 1.4 | -1 |
| 150502 | -265 | 548 | 56888.2 | 56889.2 | -33 | 0.2 | 87 | 12 | 1.4 | -1 |
| 150546 | -265 | 573 | 56933.96 | 56935.96 | -36.3 | -0.2 | 85 | 14 | 1.3 | -2 |
| 151146 | -266 | 598 | 56928.39 | 56930.39 | -29.8 | 0.2 | 87 | -1 | 1.3 | -2 |
| 151938 | -194 | 600 | 56456.59 | 56458.59 | -16.7 | 9.7 | 88 | 19 | 1.4 | -2 |
| 152054 | -194 | 575 | 56401.83 | 56403.83 | -15.2 | 9.4 | 85 | 18 | 1.3 | -2 |
| 152458 | -194 | 550 | 56238.82 | 56241.82 | -10.7 | 16.6 | 80 | 24 | 1.3 | -3 |
| 152634 | -194 | 525 | 56575.21 | 56578.21 | -7.7 | 17.3 | 86 | 12 | 1.3 | -3 |
| 152730 | -194 | 500 | 56926.6 | $56 \overline{929.6}$ | -9.1 | 17.6 | 82 | 16 | 1.3 | -3 |
| 152810 | -194 | 475 | 56856.03 | 56859.03 | -10.6 | 15.6 | 78 | 12 | 1.2 | -3 |
| 152914 | -194 | 450 | 56852.04 | 56856.04 | -16 | 20.8 | 73 | 8 | 1.1 | -4 |
| 152958 | -194 | 425 | 56979.19 | 56983.19 | -15.7 | 17.5 | 72 | 13 | 1.11 | -4 |
| 153106 | -194 | 400 | 56809.72 | 56813.72 | -16.2 | 16.8 | 80 | 14 | 1.2 | -4 |
| 153150 | -194 | 375 | 56872.2 | 56876.2 | -20.6 | 12.7 | 80 | 8 | 1.2 | -4 |
| 153422 | -195 | 350 | 56835.11 | 56840.11 | -21.1 | 9.7 | 86 | 12 | 1.3 | -5 |
| 153618 | -195 | 325 | 56808.52 | 56813.52 | -20.1 | 11.4 | 81 | 30 | 1.3 | -5 |
| 153710 i | -195 | 300 | 56831.72 | 56836.72 | -20.8 | 6.9 | 83 | 26 | 1.3 | -5 |
| 155606 | -98 | 300 | -56994.03 | 56999.03 | -10 | $\overline{0}$ | 97 | 21 | 1.5 | -5 |
| 155646 | -98 | 325 | 57188.07 | 57193.07 | -10.9 | -1.3 | 97 | 21 | 1.5 | -5 |
| 155714 | -98 | 350 | 57522.09 | 57526.09 | -10.4 | 2.5 | 91 | 26 | 1.5 | -4 |
| 155802 | -98 | 375 | 57298.24 | 57302.24 | --9.6 | 1.7 | 100 | 16 | 16 | -4 |
| 155838 | -98 | 400 | 57280.87 | 57284.87 | -8.1 | 4.2 | 98 | 23 | 1.6 | -4 |
| 155906 | -98 | $4 \overline{25}$ | $5703 \overline{8} .45$ | 57041.45 | -8.6 | 2.2 | 99 | 16 | 1.5 | -3 |
| 155942 | -98 | 450 | -57474.07 | 57477.07 | -79 | 2 | 95 | 24 | 1.5 | -3 |
| 160018 | -98 | 475 | 56159.27 | 56162.27 | -9 | 1.2 | 99 | 7 | 1.5 | -3 |
| 160050 | -97 | 500 | 56401.01 | 56403.01 | -17.1 | -2.9 | 92 | 16 | 1.4 | -2 |


| 160206 | -97 | 525 | $5 \overline{6503.46}$ | 56505.46 | -16 | -4 | 91 | 15 | 1.4 | -2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 160330 | -97 | 550 | 56477.17 | 56479.17 | -19.3 | -1.7 | 89 | 10 | 1.4 | -2 |
| 160418 | -97 | 575 | 56447.99 | 56448.99 | -13.2 | 1.8 | 88 | 5 | 1.4 | -1 |
| 160538 | -97 | 600 | 56473.5 | 56474.5 | -9.4 | 4.2 | 95 | 7 | 1.5 | -1 |
| 95722 | -12 | 300 | 57109.97 | 57100.97 | 4.3 | -2 | 62 | 13 | 1 | $\overline{9}$ |
| 95810 | -13 | 325 | 56392.15 | 56383.15 | 0.7 | -2.9 | 56 | 22 | 0.9 | 9 |
| 95850 | -14 | 350 | 56980.26 | 56971.26 | 0 | -2.5 | 58 | 20 | 0.9 | 9 |
| 95942 | -15 | 375 | 56278.56 | 56269.56 | 0.1 | -0.3 | 59 | 19 | 0.9 | 9 |
| 100034 | -16 | 400 | 56422.5 | 56412.5 | 0.1 | -4.6 | 61 | 8 | 0.9 | 10 |
| 100122 | -17 | 425 | 56535.71 | 56525.71 | -1.9 | -1.2 | 63 | 3 | 1 | 10 |
| 100210 | -18 | 450 | 56490.22 | 56480.22 | -2.8 | -2.2 | 59 | 21 | 1 | 10 |
| 100326 | -19 | 475 | 56498.51 | 56488.51 | -6.7 | -4.2 | 59 | 12 | 0.91 | 10 |
| 100358 | -20 | 500 | 56749.33 | 56739.33 | -9.5 | -3.3 | 56 | 21 | 0.91 | 10 |
| 100458 | -21 | 525 | 56468.25 | 56457.25 | -14.5 | -5.7 | 61 | 7 | 0.9 | 11 |
| 100622 | -22 | 550 | 56509.76 | 56498.76 | -16 | -2.4 | 62 | 15 | 1 | 11 |
| 100718 | -23 | 575 | 56526.26 | 56515.26 | -16.9 | -7.9 | 59 | 9 | 0.9 | 11 |
| 100854 | -24 | 600 | 56571.36 | 56560.36 | -20.9 | -5 | 64 | 3 | 1 | 11 |
| 101630 | 104 | 601 | 56537.08 | 56526.08 | -26.3 | -2.2 | 64 | 7 | 1. | 11 |
| 101718 | 104 | 576 | 56613.15 | 56601.15 | -30 | -1.5 | 59 | 11 | 0.9 | 12 |
| 101938 | 104 | 551 | 56667.63 | 56655.63 | -29.2 | -5.9 | 55 | 12 | 0.8 | 12 |
| 102058 | 104 | 526 | 56607.07 | 56595.07 | -31.6 | -10.6 | 51 | 21 | 0.8 | 12 |
| 102206 | 104 | 501 | 56425.77 | 56413.77 | -31.5 | -3.7 | 49 | 23 | 0.8 | 12 |
| 102330 | 104 | 476 | 56480.79 | 56468.79 | -27.1 | -2.7 | 55 | 22 | 0.9 | 12 |
| 102422 | 104 | 451 | 56447.42 | 56435.42 | -26.9 | 0.1 | 53 | 21 | 0.9 | 12 |
| 102454 | 104 | 426 | 56468.14 | 56455.14 | -21 | 0.3 | 52 | 21 | 0.9 | 13 |
| 102610 | 104 | 401 | 56248.43 | 56235.43 | -13.8 | -1 | 54 | 27 | 0.9 | 13 |
| 102654 | 104 | 376 | 56420.32 | 56407.32 | -15.6 | 2 | 48 | 32 | 0.9 | 13 |
| 102814 | 104 | 351 | 56506.02 | 56493.02 | -7 | 1.3 | 116 | 24 | 0.9 | 13 |
| 102854 | 104 | 326 | 56455.7 | 56442.7 | -6.7 | 1.5 | - 106 | 49 | 0.9 | 13 |
| 103102 | 104 | 301 | 56493.61 | 56480.61 | -8 | 1.8 | 97 | 64 | 0.9 | 13 |
| 103138 | 104 | 276 | 56737.86 | 56723.86 | -8.2 | 1.5 | 114 | 50 | 0.9 | 14 |
| 103330 | 104 | 251 | 56669.65 | 56655.65 | 2.8 | 11.3 | 110 | 52 | 0.9 | 14 |
| 103406 | 104 | 226 | 56938.18 | 56924.18 | 4.4 | 10.9 | 108 | 55 | 0.9 | 14 |
| 103506 | 104 | 201 | 56522.75 | 56508.75 | 7.6 | 10.5 | 110 | 46 | 0.9 . | 14 |
| 103610 | 104 | 176 | 56496.43 | 56482.43 | 10.8 | 9.6 | $1 \overline{13}$ | 46 | 0.9 | 14 |
| 103746 | 104 | 151 | 57089.41 | 57074.41 | 8.8 | 9.7 | 118 | 31 | 0.91 | 15 |
| 104010 | 104 | 126 | 57331.17 | 57316.17 | 6.1 | 7 | 117 | 29 | 0.9 | 15 |
| 104118 | 104 | 101 | 56747.71 | 56732.71 | 9.1 | 8.5 | -116 | 39 | 0.9 | 15 |
| 104154 | 104 | 76 | 56651.48 | 56636.48 | 17.6 | 13.1 | -111 | 37 | 0.9 | 15 |
| 104326 | 104 | 51 | 56956.75 | 56941.75 | 14.3 | 12.1 | 108 | 3 | 0.8 | 15 |
| 104406 | 104 | 26 | 57154.57 | 57138.57 | 9.9 | 8.1 | 103 | 33 | 0.8 | 16 |
| 104554 | 104 | 1 | 57161.93 | 57145.93 | 11.2 | 7.1 | 114 | 24 | 0.9 | 16 |
| 104702 | 104 | -24 | 57308.32 | 57292.32 | 8.6 | 9.8 | 111 | 18 | 0.9 | 16 |
| 104846 | 104 | -49 | 57017.78 | 57001.78 | 10.3 | 8.3 | 111 | 20 | 0.9 | 16 |
| 105006 | 104 | -74 | 57338.5 | 57322.5 | 11.2 | 8.7 | 106 | 36 | 0.8 | 16 |
| 105130 | 104 | -991 | 57694.88 | 57678.88 | 11.5 | 14.8 | 110 | 4 | 0.8 | 16 |
| 105226 | 104 | -124 | 57366.32 | 57349.32 | 14.9 | 13 | -117 | 13 | 0.9 | 17 |
| 105334 | 104 | -149 | 57499.92 | 57482.92 | 7.4 | 12.8 | 102 | 46 | 0.8 | 17 |
| 105458 | 104 | -174 | 57444.72 | 57427.72 | 9.2 | 10.9 | 109 | 27 | 0.8 | 17 |
| 105554 | 104 | -199 | 57227.68 | 57210.68 | 7 | 11.9 | 106 | 23 | 0.8 | 17 |
| 110618 | 0 | 4 | 57527.1 | 57510.1 | 18.9 | 12.9 | 70 | 2 | 1.1 | 17 |
| 110706 | 1 | -25 | 57327.04 | 57309.04 | 14.9 | 10.4 | 63 | -7 | 1. | 18 |
| 110818 | 2 | -50 | 57457.83 | 57439.83 | 10.9 | 7.9 | 67 | 2 | 1 | 18 |
| 111014 | 3 | -75 | 57341.06 | 57323.06 | 10.7 | 8.4 | 63 | -6 | 1 | 18 |
| 111150 | 4 | -100 | 57211.49 | 57193.49 | 8.9 | 6.8 | 63 | -12 | 1 | $1 \overline{8}$ |







