Alaska Division of Geological & Geophysical Surveys

Geophysical Report 2000-40

**PROJECT REPORT OF THE AIRBORNE GEOPHYSICAL SURVEY OF
PARTS OF THE ANIAK AND IDITAROD MINING DISTRICT,
SOUTHWESTERN ALASKA**

by

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October 2000

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DEPARTMENT OF NATURAL RESOURCES
Division of Geological & Geophysical Surveys
3354 College Road
Fairbanks, Alaska 99709-3707

PROJECT REPORT OF THE
AIRBORNE GEOPHYSICAL SURVEY
OF PARTS OF THE
ANIAK AND IDITAROD MINING DISTRICT,
SOUTHWESTERN ALASKA

STEVENS EXPLORATION MANAGEMENT CORP.
DIGHEM^V SURVEY
FOR THE
STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF GEOLOGICAL AND GEOPHYSICAL SURVEYS

Quadrangle: Iditarod A-4, A-5, A-6, B-4, B-5, B-6
Sleetmute C-6, C-7, D-6, D-7

Mississauga, Ontario
July, 2000

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R6006JUL.00

SUMMARY

Introduction

This report describes the logistics and results of a DIGHEM^V airborne geophysical survey carried out under contract to Stevens Exploration Management Corp., Mining and Geological Consultants, for the State of Alaska, Department of Natural Resources, Division of Geological and Geophysical Surveys. The survey was flown from April 12 to May 8, 2000, over one block in the Aniak and Iditarod mining districts, southwestern Alaska. Total coverage of the survey block amounts to 5,709.6 miles (9186.7 km).

Purpose

This airborne geophysical survey is part of a program to acquire such data on Alaska's most promising mineral belts and districts. The information acquired is aimed at catalyzing new private sector exploration, discovery, and ultimate development and production. The purpose of the survey was to map the magnetic and conductive properties of the survey area and to detect conductive mineralization. This purpose was accomplished by using a DIGHEM^V multi-coil, multi-frequency electromagnetic system and supplemented by a high sensitivity cesium magnetometer. A GPS electronic navigation system ensured accurate positioning of the geophysical data with respect to the base maps. Visual flight path recovery techniques were used to confirm the location of the helicopter platform.

Products

Various maps depicting the survey results are provided at scales of 31,680 (1" = 1/2 mile) and 1:63,360 (1" = 1 mile). Some of the maps are presented on a topographic base. The data sets are processed and presented using Zone 4 of the Universal Transverse Mercator projection coordinates using the NAD27 datum. The following geophysical parameters are presented on the maps and/or on the digital archive:

- Total Field Magnetics
- Colour Shadow Total Field Magnetics
- Apparent Resistivity – 900 Hz
- Apparent Resistivity – 7,200 Hz
- Interpreted Discrete Electromagnetic Anomalies

Geology

The Aniak and Iditarod mining districts fall within the central Kuskokwim region in southwestern Alaska. The region is dominated by the Kuskokwim Mountains, which trend northeastward into central Alaska. The Kuskokwim River passes through the region from east to west in a gorge that transects the Kuskokwim mountains.

The central Kuskokwim region lies at the centre of a mobile belt of mountain building and volcanic activity that trends east-west through central and southern Alaska (Cady and others, 1955). This belt was predominantly a zone of subsidence and geosynclinal deposition during the Paleozoic and early Mesozoic eras and became a zone of mountain building and intrusive igneous activity beginning with the Middle Mesozoic time (Cady and others, 1955). Geanticlines formed in the mobile belt during the first phase of mountain building and were intruded by granitic batholiths. Geosynclinal deposits, chiefly graywacke, formed in the intervening areas during the late Mesozoic. They were then folded and intruded by igneous rocks in the second phase of mountain building. The present mountain levels were produced by vertical uplift that began in the middle Cenozoic time and has continued to the present. Extrusion of basaltic volcanic rocks and intrusion of quartz monzonite stocks accompanied these later movements, and extensive faults formed where differential uplift was pronounced (Cady and others, 1955).

The bedded rocks of the Kuskokwim region include both sedimentary and volcanic rocks that make up a very thick section of probably 60,000 feet or more deposited chiefly in marine water (Cady and others, 1955). Surficial deposits include residual soil and rubble, gravel that occurs on rock benches and terraces; glacial till and outwash deposits; windblown silt; and the flood plain deposits of existing streams.

Geanticlines, geosynclines, folds and faults occur in the area. The Kuskokwim geosyncline, which occupies most of the region, is bordered to the southeast by the Alaska-Yukon geanticline and to the northwest by the Aniak-Ruby geanticline, both of which are of middle to late Mesozoic age. A system of folds, referred to as the Kuskokwim Mountain orogen, formed in the early Cenozoic, trends to the northeast. Faults strike east-northeast across the Kuskokwim Mountain orogen and intersect the Alaska-Yukon geanticline in the region to the northeast of the central Kuskokwim region. The faults are mainly of Cenozoic age and are still active (Cady and others, 1955). A major northeast trending fault, the Iditarod-Nixon Fork fault, occurs in the northern section of the survey area just south of Chicken Mountain. Latest Cretaceous and Tertiary right-lateral offsets of less than 150 km characterize the fault (Decker and others, 1994).

Principal lode mineral deposits in the Iditarod Mining district consist of zoned, hydrothermal, mesothermal to epithermal, gold polymetallic deposits hosted in Late Cretaceous plutonic and volcanic rocks. The Golden Horn deposit, (located approximately 2.5 miles to the east of Flat, along Black Creek), consists of large amounts of gold with

anomalous silver, antimony, zirconium, tungsten, and arsenic values. Additional significant bulk-tonnage polymetallic gold resources within the Iditarod mining district can be found within the drainage of Black, Granite and Boulder Creeks as well as on Chicken Mountain. The Iditarod Mining district is Alaska's third largest placer gold district yielding 45,196 kg (1,453,000 oz) gold through 1990 and with byproducts of silver, tungsten and mercury (Bundtzen and others, 1992).

In the central and southern section of the survey area, principal mineral deposits include mesothermal, boron-enriched, base-precious metal mineralization hosted in high-level cupolas and hornfels of the Horn Mountains volcanic-plutonic complex, mercury-antimony (gold) lodes in peraluminous granite porphyry and altered mafic dykes and heavy mineral gold placers (Bundtzen and others, 1999).

Results and Discussion

The geophysical results, in general, correlate well with the known geology in the survey area. The results confirm the general trends and serve to extend the mapping of individual geologic units beneath the surface.

The total field magnetic and apparent resistivity data sets have successfully mapped the magnetic and conductive characteristics of the lithologies in the survey area. Numerous faults and contacts have been inferred from the survey results.

The discrete EM anomalies are interpreted to fall within one of four general categories. The first type consists of discrete, well-defined anomalies which are usually attributed to conductive sulphides or graphite. The second class of anomalies comprises moderately broad responses which exhibit the characteristics of a half space. Some of these anomalies may reflect conductive rock units or zones of deep weathering. The third class of anomalies consists of negative inphase responses which are indicative of magnetite. The fourth class comprises cultural anomalies.

It is recommended that the survey results be reviewed in detail, in conjunction with all available geophysical, geological and geochemical information. Particular reference should be made to the multi-parameter stacked profiles which clearly define the characteristics of the individual anomalies in the identification of target areas. Image processing of existing geophysical data be considered, in order to extract the maximum amount of information from the survey results.

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INTRODUCTION

A DIGHEM^V airborne electromagnetic/resistivity/magnetic survey was flown under contract to Stevens Exploration Management Corp., Mining and Geological Consultants, for the State of Alaska, Department of Natural Resources, Division of Geological and Geophysical Surveys (DGGS). The survey was flown from April 12 to May 8, 2000, over one block located in parts of the Aniak and Iditarod mining districts, southwestern Alaska. The survey was carried out in the Iditarod A-4, A-5, A-6, B-4, B-5, B-6, and Sleetmute C-6, C-7, D-6 and D-7 quadrangles.

This airborne geophysical survey is part of a program to acquire such data on Alaska's most promising mineral belts and districts. The information acquired is aimed at catalyzing new private sector exploration, discovery, and ultimate development and production.

Survey coverage consists of approximately 5,709 miles (9,186 line-km), including 599 miles (964 line-km) of tie lines. The nominal line separation is ¼-mile (approximately 400 metres). Tie lines were generally flown perpendicular to the flight line direction with a separation of 3 miles (5 km). Tie lines were also flown parallel to the boundaries.

The survey employs the DIGHEM^V electromagnetic system. Ancillary equipment consists of a magnetometer, radar altimeter, video camera, analog and digital recorders and an electronic navigation system.

Section 2 gives a description of the survey equipment and specifications and an outline of the field procedures. Section 3 describes the processing techniques and products. Section 4 describes the results, and the conclusions and recommendations for further work are given in Section 5.

LOCATION INDEX

Figure 1-1
Location of parts of the Aniak and Iditarod
mining districts, southwestern Alaska.

SURVEY EQUIPMENT AND FIELD PROCEDURES

The survey instrumentation was installed in an Aerospatiale AS350B2 turbine helicopter (Registration N214-EH) which was owned by Era Aviation Inc. A bird, which houses much of the electromagnetic and magnetic equipment, is suspended approximately 100 feet beneath the helicopter. The helicopter flew at an average air speed of 74 mph (120 km/hr). The EM bird was flown with an approximate terrain clearance of 100 feet (30 metres).

Electromagnetic System

The survey was flown with a DIGHEM^V system which has a towed bird, symmetric dipole configuration and is operated at a nominal survey altitude of 30 metres. Table 2-1 lists the specifications for the DIGHEM^V system. Five in-phase and five quadrature components are recorded for each of the five coil pairs. The sample rate of 10 per second is equivalent to 1 sample every 10.9 ft (3.3m) at the average survey speed of 74 mph (120 km/h).

Table 2-1: DIGHEM^V System Specifications

Coil Orientation	Nominal Frequency (Hz)	Actual Frequency (Hz)	Coil Separation (m)	Sensitivity (ppm)
Coaxial	900	1,049	8.0	0.06
Coplanar	900	855	8.0	0.06
Coaxial	5,500	5,600	8.0	0.10
Coplanar	7,200	7,155	8.0	0.10
Coplanar	56,000	55,700	6.3	0.30

The electromagnetic system utilizes a multi-coil coaxial/coplanar technique to energize conductors in different directions. The coaxial coils are vertical with their axes in the flight direction. The coplanar coils are horizontal. The secondary fields are sensed simultaneously by means of receiver coils which are maximum coupled to their respective transmitter coils. The system yields an inphase and a quadrature channel from each transmitter-receiver coil-pair.

The DIGHEM calibration procedure involves four stages; primary field bucking, phase calibration, gain calibration, and zero level adjustment. At the beginning of the survey, the primary field at each receiver coil is cancelled, or “bucked out”, by precise adjustment of the position of five bucking coils.

The phase calibration adjusts the phase angle of the receiver to match that of the transmitter. A ferrite bar, which produces a purely in-phase anomaly, is positioned near each receiver coil. The bar is rotated from minimum to maximum field coupling and the responses for the in-phase and quadrature components for each coil pair/frequency are measured. The phase of the response is adjusted at the console to return an in-phase only response for each coil-pair. The EM system was checked for phase calibration at the beginning of each day of operation.

The gain calibration uses external coils designed to produce an equal response on in-phase and quadrature components for each coil pair/frequency. The coil parameters and distances are designed to produce pre-determined responses at the receiver, due to the current induced in the calibration coil by the transmitter when a switch closes the loop at the coil. The gain at the console is adjusted to yield secondary responses of exactly 100 ppm. Gain was calibrated at the start and end of the survey flying. Additional gain checks were performed periodically throughout the survey and after any maintenance to the EM system.

The phase and gain calibrations each measure a relative change in the secondary field, rather than an absolute value. This removes any dependency of the calibration procedure on the secondary field due to the ground, except under circumstances of extreme ground conductivity.

During each survey flight, internal (Q-coil) calibration signals are generated to recheck system gain and to establish zero reference levels. These calibrations are carried out at intervals of approximately 20 minutes with the system out of ground effect. At a sensor height of more than 250 m, there is no measurable secondary field from the earth. Any remaining residual is therefore established as the zero level of the system. Linear system drift is automatically removed by interpolating the zero levels between the Q-coil calibrations.

Mobile Magnetometer

Model:	Picodas 3340 processor with Geometrics G822 sensor
Type:	Optically pumped Cesium vapour
Sensitivity:	0.01 nT
Sample rate:	10 per second

The magnetometer sensor is housed in the EM bird 30 m below the helicopter.

Base Station Magnetometer

Model: Geometrics G823A processor with Geometrics G823A sensor
Type: Digital recording cesium vapor
Sensitivity: 0.01 nT
Sample rate: 1 per second

and

Model: GEM Systems GSM-19T
Type: Digital recording proton precession
Sensitivity: 0.10 nT
Sample rate: 3 seconds

A digital recorder is operated in conjunction with the base station magnetometers to record the diurnal variations of the earth's magnetic field. The clocks of the base stations are synchronized with that of the airborne system to permit subsequent removal of diurnal drift.

Radar Altimeter

Manufacturer: Honeywell/Sperry
Type: AA220
Sensitivity: 0.3 m

The radar altimeter is positioned to measure the vertical distance between the helicopter and the ground.

Barometric Pressure and Temperature Sensors

Model: DIGHEM D 1300
Type: Motorola MPX4115AP analog pressure sensor
AD592AN high-impedance remote temperature sensors
Sensitivity: Pressure: 150 mV/kPa
Temperature: 100 mV/°C or 10 mV/°C (selectable)
Sample rate: 10 per second

The D1300 circuit is used in conjunction with one barometric sensor and up to three temperature sensors. Two sensors (baro and temp) are installed in the EM console in the aircraft, to monitor internal operating temperatures. At least one other temperature sensor is located in the EM bird to record temperature variations at the receiver coils. The

information is recorded by the digital acquisition system, and is displayed on the analog chart records.

Analog Recorder

Manufacturer: RMS Instruments
Type: DGR33 dot-matrix graphics recorder
Resolution: 4x4 dots/mm
Speed: 1.5 mm/sec

The analog profiles are recorded on chart paper in the aircraft during the survey. Table 2-2 lists the geophysical data channels and the vertical scale of each profile.

Digital Data Acquisition System

Manufacturer: RMS Instruments
Model: DGR 33
Recorder: Iomega Zip Plus drive

The data are stored on a 100 Mb Zip disc and are downloaded to the field PC workstation at the survey base for verification, backup and preparation of in-field products.

Tracking Camera

Type: Panasonic VHS colour video camera (NTSC format)
Model: AG 2400/WVCD132

Fiducial numbers are recorded continuously and are displayed on the margin of each image. This procedure ensures accurate correlation of analog and digital data with respect to visible features on the ground.

Table 2-2. The Analog Profiles

Channel Name	Parameter	Scale Units/mm	Designation on Digital Profile
1X9I	Coaxial inphase (900 Hz)	2.5 ppm	CXI900
1X9Q	Coaxial quad (900 Hz)	2.5 ppm	CXQ900
3P9I	Coplanar inphase (900 Hz)	2.5 ppm	CPI900
3P9Q	Coplanar quad (900 Hz)	2.5 ppm	CPQ900
2P7I	Coplanar inphase (7,200 Hz)	5 ppm	CPI7200
2P7Q	Coplanar quad (7,200 Hz)	5 ppm	CPQ7200
4X7I	Coaxial inphase (5,500 Hz)	5 ppm	CXI5500
4X7Q	Coaxial quad (5,500 Hz)	5 ppm	CXQ5500
5P5I	Coplanar inphase (56,000 Hz)	10 ppm	CPI56K
5P5Q	Coplanar quad (56,000 Hz)	10 ppm	CPQ56K
ALTR	Altimeter (radar)	3 m	ALTR
MAGC	Magnetics, coarse	20 nT	MAG
MAGF	Magnetics, fine	2.0 nT	MAG
4XSP	Coaxial spherics monitor		4XS
CXPL	Coaxial powerline monitor		CXP
1KPA	Altimeter (barometric)	30 m	
3TDC	Temperature	1° C	

Navigation (Real-Time - Differential Global Positioning System)

Airborne Receiver

Model: Ashtech Glonass GG24
Type: SPS (L1 band), 24-channel, C/A code at 1575.42 MHz, S code at 0.5625 MHz, Real-time differential.
Sensitivity: -132 dBm, 0.5 second update
Accuracy: Better than 10 metres real-time

Base Station

Model:	Marconi Allstar OEM, CMT-1200
Type:	Code and carrier tracking of L1 band, 12-channel, C/A code at 1575.42 MHz
Sensitivity:	-90 dBm, 1.0 second update
Accuracy:	Manufacturer's stated accuracy for differential corrected GPS is 2 metres

The Ashtech GG24 is a line of sight, satellite navigation system which utilizes time-coded signals from at least four of forty-eight available satellites. Both Russian GLONASS and American NAVSTAR satellite constellations are used to calculate the position and to provide real time guidance to the helicopter. The Ashtech system is combined with a RACAL GPS receiver which further improves the accuracy of the flying and subsequent flight path recovery to better than 5 metres. The differential corrections, which are obtained from a network of virtual reference stations, are transmitted to the helicopter via a spot-beam satellite.

The Ashtech receiver is coupled with a PNAV navigation system for real-time guidance.

Although the Marconi base station receiver is able to calculate its own latitude and longitude, a higher degree of accuracy can be obtained if the reference unit is established on a known benchmark or triangulation point. For this survey, the GPS station was located at latitude 62°1.61520'N, longitude 158°13.29585'W at an elevation of 255.0 metres a.m.s.l. The GPS records data relative to the WGS84 ellipsoid, which is the basis of the revised North American Datum (NAD83). The data is differentially post-processed and conversion software is used to transform the WGS84 coordinates to the NAD27 system displayed on the base maps.

Field Workstation Software

Model:	FWS: V5.18
Manufacturer:	Dighem
Type:	Windows-Based P.C.

A laptop PC-based field workstation is used at the survey base to verify data quality and completeness. Flight data are transferred to a PC to permit the creation of a database. This process allows the field operators to display both the positional (flight path) and geophysical data on a screen or printer.

PRODUCTS AND PROCESSING TECHNIQUES

This section describes the final delivered products and the techniques employed during data processing, interpretation and presentation. Appendix B provides detailed background information about DIGHEM surveys.

PRODUCTS

Maps

Various maps depicting the survey results are provided at scales of 1:31,680 (1" = 1/2 mile) and 1:63,360 (1" = 1 mile). These maps are available from the State of Alaska, Department of Natural Resources, Division of Geological and Geophysical Surveys. The data sets are processed and presented using Universal Transverse Mercator Zone 4 projection coordinates using the NAD27 datum. Details of this projection and the conversion from WGS84 are given following:

Projection Description:

Datum:	NAD27 (Alaska)
Ellipsoid:	Clark 1866
Projection:	UTM Zone 4
Central Meridian:	159W
False Northing:	0
False Easting:	500000
Scale Factor:	0.9996
WGS84 to Local Conversion:	Molodensky
Datum Shifts:	DX: 5 DY: -135 DZ: -172

The maps are plotted on two map sheets at a scale of 1:63,360 and eight map sheets at a scale of 1:31,680.

Two maps (at a scale of 1:63,360) containing an interpretation of the geophysical data can be found in the map pocket at the end of this report. These maps present individual geophysical features, inferred contacts and structural features.

Multi-parameter Stacked Profiles for all survey lines are provided at a scale of 1:63,360. A more detailed description of this product is given later in this section.

Other Products

The survey data are also provided in digital form as grid and line data archives on CD-ROM. These digital archives are available from the DGGS. The digital data are referenced to the UTM zone 4 coordinate system as described above.

PROCESSING TECHNIQUES

Figure 3-1 depicts the data processing flow for the electromagnetic and magnetic data sets.

Topography Bases

Topography bases of the survey area have been produced from published topographic maps A-4, A-5, A-6, B-4, B-5 and B-6 of the Iditarod Quadrangle and C-6, C-7, D-6 and D-7 maps of the Sleetmute Quadrangle. Scanned images of the topographic bases are presented as gray layers on the 2000-25, 2000-31, 2000-34 and 2000-37 series maps. The remaining maps do not present the topography.

Electromagnetic Anomalies

The process of interpreting the EM anomalies begins by filtering the EM data with a spike rejection filter. Appropriate median and/or Hanning filters are applied to reduce high frequency noise to acceptable levels. EM test profiles are then created to allow the interpreter to select the most appropriate EM anomaly picking controls for the given survey area. The EM picking parameters depend on several factors but are primarily based on the dynamic range of the resistivity within the survey area, and the types and expected geophysical responses of the geologic target models.

Anomalous electromagnetic responses are selected and analyzed by computer to provide a preliminary electromagnetic anomaly map. The automatic selection algorithm is intentionally oversensitive to assure that no meaningful responses are missed. Using the preliminary map in conjunction with the multi-parameter stacked profiles, the interpreter then reviews and classifies the anomalies according to their source and modifies or eliminates those that are not substantiated by the data, such as those arising from geologic or aerodynamic noise. The final interpreted EM anomaly map includes bedrock, surficial and cultural conductors. A map containing only bedrock conductors can be generated, if desired.

Figure 3-1. Processing Flow Chart

a) Electromagnetic Data

b) Magnetic Data

Excellent resolution and discrimination of conductors was accomplished by employing a common frequency on two orthogonal coil-pairs (coaxial and coplanar). The computed "difference channel" parameters often permit differentiation of bedrock and surficial conductors where the computed conductance alone can not.

The anomalies shown on the electromagnetic anomaly maps are based on a near-vertical, half-plane model. This model best reflects "discrete" bedrock conductors. Wide bedrock conductors or flat-lying conductive units, whether from surficial or bedrock sources, may give rise to very broad anomalous responses on the EM profiles. These may not appear on the electromagnetic anomaly map if they have a regional character rather than a locally anomalous character. These broad conductors, which more closely approximate a half space model, will be maximum coupled to the horizontal (coplanar) coil-pair and should be more evident on the resistivity parameter. Resistivity maps, therefore, may be more valuable than the electromagnetic anomaly maps in areas where broad or flat-lying conductors are considered to be of importance (see next - Apparent Resistivity).

Some of the maps available from the DGGS depict the interpreted discrete anomalies as symbols in a vector overlay. Direct magnetic correlation and dip direction are also indicated where they are interpreted.

Apparent Resistivity

Apparent resistivity is computed from the in-phase and quadrature EM components for the 900, 7,200 and 56,000 Hz coplanar data sets using a pseudo-layer half-space model. The resultant apparent resistivity maps portray the variation in apparent resistivity for the given frequency over the entire survey area. This full coverage contrasts with the electromagnetic anomaly map which provides information only over the interpreted discrete conductors. The large dynamic range afforded by the multiple frequencies in the DIGHEM^V system makes the apparent resistivity parameter an excellent mapping tool.

Preliminary apparent resistivity maps and images are carefully inspected to identify lines or line segments which may require base level adjustment. Subtle changes between in-flight calibrations of the system can result in line to line differences which are more readily recognizable in resistive (low signal amplitude) areas. If required, manual level adjustments are carried out to eliminate or minimize resistivity differences which can be attributed in part to changes in operating temperature. These leveling adjustments are usually subtle, and do not result in the degradation of discrete anomalies.

After the leveling process is complete, revised apparent resistivity grids are created. These grids are filtered using a 3 cell by 3 cell smoothing filter prior to the preparation of

the final maps. This final filter will not degrade the apparent resistivity given the broad 'footprint' of the parameter and the assumption of a homogeneous half space inherent in the apparent resistivity computation.

The calculated apparent resistivity values are clipped at a maximum value for each of the 900, 7200, and 56000 Hz data sets. These maxima, 1001, 8233, and 25000 ohm-m, respectively, eliminate the meaningless high apparent resistivity values which would result from very small EM amplitudes.

Contoured resistivity maps based on the 900 Hz and 7,200 Hz coplanar data sets are included with this report. The apparent resistivity for all three of the coplanar data sets are included in the digital archives. Values are in ohm-metres on all final products.

Total Field Magnetics

The aeromagnetic data are corrected for diurnal variation using the magnetic base station data. Manual adjustments are made to any lines that require further leveling as indicated by shadowed images of the gridded magnetic data or tie line/traverse line intercepts. The total field magnetic data have been presented as contours on the base maps using a contour interval of 5 nT at a scale of 1:63,360 and 2 nT at a scale of 1:31,680.

Multi-parameter Stacked Profiles

Distance-based profiles of the survey data are generated and plotted. These contain profiles of the recorded data, the calculated parameters and a representation of the interpreted electromagnetic anomalies. A set of preliminary profiles is generated for use throughout the data reduction and interpretation processes. The final profiles are presented on transparent medium, from which prints can be made, at a scale of 1:63,360. Table 3-1 shows the parameters and scales for the multi-parameter stacked profiles.

Contour, Colour and Shadow Map Displays

The geophysical data are interpolated onto a regular grid using a modified Akima spline technique. The grid cell size is 82 ft (25m) for the survey. The cell size is approximately 12.5% of the nominal line spacing for the survey. The resulting grid is used to generate contours of each geophysical parameter. The contours are labeled, annotated and are presented on the final maps with varying pen weights for ease of viewing.

Table 3-1. Multi-parameter Stacked Profiles

Channel Name (Freq)	Observed Parameters	Scale Units/mm
MAGFINAL	Magnetics – fine	5 nT
MAGFINAL	Magnetics – coarse	50 nT
ALTBIRDR	Bird height	6 m
DEM	Digital Elevation Model	25 m
CXI (900 Hz)	Vertical coaxial coil-pair inphase	4 ppm
CXQ (900 Hz)	Vertical coaxial coil-pair quadrature	4 ppm
CPI (900 Hz)	Horizontal coplanar coil-pair inphase	4 ppm
CPQ (900 Hz)	Horizontal coplanar coil-pair quadrature	4 ppm
CXI (5,500 Hz)	Vertical coaxial coil-pair inphase	4 ppm
CXQ (5,500 Hz)	Vertical coaxial coil-pair quadrature	4 ppm
CPI (7,200 Hz)	Horizontal coplanar coil-pair inphase	8 ppm
CPQ (7,200 Hz)	Horizontal coplanar coil-pair quadrature	8 ppm
CPI (56,000 Hz)	Horizontal coplanar coil-pair inphase	20 ppm
CPQ (56,000 Hz)	Horizontal coplanar coil-pair quadrature	20 ppm
4XS	Coaxial spherics monitor	
CXP	Coaxial powerline monitor	
	Computed Parameters	
DFI (5500 Hz)	Difference function inphase from CXI and CPI	4 ppm
DFQ (5500 Hz)	Difference function quadrature from CXQ and CPQ	4 ppm
RES (900 Hz)	Log resistivity	.06 decade
RES (7,200 Hz)	Log resistivity	.06 decade
RES (56,000 Hz)	Log resistivity	.06 decade
DP (900 Hz)	Apparent depth	6 m
DP (7,200 Hz)	Apparent depth	6 m
DP (56,000 Hz)	Apparent depth	6 m
CDT	Conductance	1 grade

Colour maps are produced by interpolating the grid to the pixel size. The parameter is then represented with a defined colour for specific amplitude ranges to provide colour "contour" maps. A standard rainbow colour palette is used to define the entire data range. The colours are distributed over the entire data range so that each colour in the palette

covers an equal area on the final maps. This equal area distribution is defined over each block independently. In this way the colour distribution is optimized for each map sheet.

Shadow maps are generated by employing an artificial sun which casts shadows on a surface defined by the geophysical parameter grids. Shadow maps of the total field magnetic data were combined with the colour magnetic grids to produce colour shadowed total field magnetic maps.

Digital Terrain

The radar altimeter values (ALTR - aircraft to ground clearance) were subtracted from the differentially corrected GPS-Z values, which were transformed to the local datum, to produce profiles of the height above mean sea level along the survey lines. These values were gridded to produce contour maps showing approximate elevations within the survey blocks. The resulting digital terrain contours were compared against published topographic maps. The data were manually adjusted to remove differences between the two. The data were then subjected to a microlevelling algorithm to remove any remaining small line-to-line discrepancies.

The accuracy of the elevation calculation is directly dependent on the accuracy of the two input parameters, ALTR and GPS-Z. The ALTR value may be erroneous in areas of heavy tree cover, where the altimeter reflects the distance to the tree canopy rather than the ground. The GPS-Z value is primarily dependent on the number of available satellites.

Although post-processing of GPS data will yield X and Y accuracies in the order of 5 metres, the accuracy of the Z value is usually much less, sometimes in the ± 20 metre range. Further inaccuracies may be introduced during the interpolation and gridding process.

Because of the inherent inaccuracies of this method, no guarantee is made or implied that the information displayed is a true representation of the height above sea level.

Although this product may be of some use as a general reference, THIS PRODUCT MUST NOT BE USED FOR NAVIGATION PURPOSES.

SURVEY RESULTS AND DISCUSSION

Geology

The Aniak and Iditarod mining districts lie within the central Kuskokwim region in southwestern Alaska. The region is dominated by the Kuskokwim Mountains which trend northeastward through the survey area. The Kuskokwim River flows westward through the region and drains most of it.

Gneiss, quartzite, schist, amphibolite and granite in the area record the deposition, probably in the sea, of sand, mud and basaltic lava followed by their subsequent folding and metamorphism, and intrusion of granitic magma. This is thought to have taken place in early pre-Cambrian time (Cady and others, 1955). The formation of these rocks was followed in later pre-Cambrian time by a general uplift of broad areas above sea level forming the platform of the continent of North America. A mobile belt developed during the late pre-Cambrian and portions subsided beneath the sea. Material eroded from the adjacent platform was transported southward to submerged basins that were undergoing subsidence, where they formed thousands of feet of material consisting of shale and quartzite (Cady and others, 1955). Volcanic activity occurred during that time producing the interbedding of greenstone with shale and quartzite. During the late pre-Cambrian to Ordovician time, the mobile belt and the adjacent continental platform subsided and were submerged leading to the deposition of limestone. The limestone is the oldest rock exposed in the central Kuskokwim region. Subsidence increased and submarine volcanism began during the Carboniferous and Early Cretaceous. This was followed by the deposition of thick successions of mixed silt and chert.

By late Early Cretaceous time, northeastward trending belts at both the eastern and western borders of the central Kuskokwim region were uplifted vertically during the first phase of mountain building forming the Alaska-Yukon and Aniak-Ruby geanticlines respectively. Sediments eroded from the emerged geanticlines were transported by streams to the Kuskokwim geosyncline forming the Kuskokwim group. In the Early Cenozoic, the geosynclinal deposits were folded and intruded by igneous rocks during a second phase of mountain building.

Some time between the Eocene and the late Miocene, the area was uplifted and eroded, covered widely by basaltic volcanic rocks, and intruded by quartz monzonite stocks. Subsequent erosion reduced the land to an old-age surface upon which basalt flows were locally extruded (Cady and others, 1955). The old-age surface was destroyed late in the Cenozoic era, in response to differential uplift, which has continued to the present time.

Faults generally strike east-northeast across the Kuskokwim Mountains. The Iditarod-Nixon Fork fault, a major 500km (310 mile) transcurrent fault, bisects the northern section of the survey area diagonally along a southwest-to-northeast line. Approximately 50 km (31 miles) to the southeast lies another northeast trending fault, the Denali-Farewell fault.

Volcanic and sedimentary rocks northwest of the Iditarod-Nixon Fork fault have been folded into broad, open northeast trending synclines and anticlines with amplitudes of 2-3 km (1-2 miles) that plunge to the southwest (Bundtzen and others, 1992). The structural deformation southeast of the Iditarod-Nixon Fork fault consist of a series of doubly folded anticlines and synclines and transcurrent high angle faults that show right lateral drag features. The fault may have acted as a structural buttress for southeast to northwest compressional stress (Bundtzen and others, 1992). The fault juxtaposes a relatively thin 2,200m (7,200 ft.) thick section of the Cretaceous Kuskokwim Group to the northwest against a much thicker >5,000m (16,400 ft.) section of the Kuskokwim group to the southeast. Miller and Bundtzen (1988) have proposed a right lateral offset of 94 km (58 miles) for the Iditarod-Nixon Fork fault, which is thought to be at least as old as the Late Cretaceous.

The Granite Creek fault, formerly referred to as the Golden Creek fault by Bundtzen and others (1988), trends northeast near Chicken Mountain. It juxtaposes hornfels against stratigraphically lower volcanic rocks north of Otter Creek. The fault trends N5°E to N25°E and might control the emplacement of the Chicken Mountain, Black Creek and Boulder Creek plutons.

Northeast-trending high angle faults ranging from N30E to N70E orientations cut bedrock units in the central and southern sections of the survey area. They roughly parallel the Iditarod-Nixon Fork fault that juxtaposes shoreline deposits against turbidite facies of the Kuskokwim Group.

A 700m thick volcanic succession ranging in composition from basaltic andesite to rhyolite covers a 285 km² (178mi²) circular region centred on the Horn Mountains in the southern section of the survey area. Cady and others (1955) first noted that this circular volcanic feature represented a collapsed caldera.

The Iditarod mining district has been in continuous production from 1909 to 1991 and ranks as Alaska's third largest producer of placer gold (Bundtzen and others, 1992). Through 1990, total production is estimated at 45,196 Kg (1,453,078 oz) gold, 6,116 kg (196,624 oz) silver, and minor amounts of tungsten and mercury mainly from placer deposits. Some 84,156 g (2,706 oz) of gold (or 0.19 percent of the district total) has been derived from the Golden Horn lode deposit.

Lodes consist of vein-disseminate and shear zone deposits in both plutonic and overlying cap rocks that contain gold, tungsten, mercury, antimony and silver (Bundtzen and others, 1992). The streams that have yielded commercial amounts of placer gold are confined to a small 50 km² (19 mile²) region centred on Chicken Mountain and in Otter Creek Valley. The probable source of placer gold are the auriferous veins, disseminations, and stockworks in the Chicken Mountain and Black Creek stocks, in the hornfels aureole north of Otter Creek, and in mineralized bedrock within the valley of Otter Creek (Bundtzen and others, 1992).

Gold-polymetallic and mercury-antimony resource production in the Horn Mountains, Juninggulra Mountain and New York Creek placer mine have been modest in the central and southern sections of the survey area..

Gold and polymetallic deposits occur at a number of sites in the Horn mountains and include the Getmuna Creek and Sue Creek prospects as well as the Jungjuk Creek, Greisen and Saddle occurrences. The Getmuna Creek prospect consists of quartz-arsenopyrite-gold veins that are thought to be small and of limited extent. Tourmaline-enriched, base metal-silver occurrences in high level sections of the Horn Mountains pluton. At the Jungjuk creek, Greisen, and saddle occurrences, northwest trending tourmaline breccias and veins cut granodiorite porphyry either below roof pendants of andesite and latite tuff or within the pendants themselves (Bundtzen and others, 1999).

The Sue Creek prospect consists of a distinctive zone of tourmaline-ferricite flooding in hornfels adjacent to granodiorite porphyry of the horn mountains pluton, just west of Sue Creek canyon. Although weak polymetallic mineralization occurs near surface, the apparent size and extent of the mineralized zone (75m by 65m area) may indicate a large deposit at depth (Bundtzen and others, 1999).

The Rhyolite mercury prospect on the southern flank of Juninggulra Mountain hosts a large peraluminous granite porphyry sill (Bundtzen and others, 1999). The principal mercury mineral (metacinnabar) is confined to small N60E to N80E trending stringers and lenses in silica-carbonate-altered zones within the granite porphyry sill.

The New York Creek placer gold deposits at the extreme southwest edge of the survey area were developed around 1910 and have intermittently produced gold since then (Bundtzen and others, 1999).

Mercury has been mined profitably only in the central Kuskokwim region, although small quantities have been found throughout Alaska, particularly in gold placer concentrates (Cady and others, 1955). The principal deposits are near the Kuskokwim River, in the vicinity of Sleetmuth (to the east of the survey area) and near DeCourcy Mountain, in the centre of the survey area. DeCourcy Mountain lies among the rolling hills

southeast of the Iditarod River. The mercury lode deposits lie south of DeCourcy Mountain on the north side of Return Creek, which flows into Montana creek, a southeastern tributary of the Iditarod River.

The mercury deposits are found in interbedded graywacke and shale of the Kuskokwim group, intruded by sill-like bodies of basalt and diabase. Mercury deposits are restricted to the silica-carbonate rock and to unaltered formations immediately adjacent (Cady and others, 1955).

Survey Results

DISCRETE EM ANOMALY INTERPRETATION

A total of 5064 discrete anomalous EM responses have been interpreted from the electromagnetic data sets in the current survey areas. Table 4-1 summarizes these responses with respect to conductance grade and interpretation for each of the current survey areas.

The EM anomalies resulting from this survey appear to fall within one of four general categories. The first type consists of discrete, well-defined anomalies which yield marked inflections on the difference channels. These anomalies are usually attributed to conductive sulphides or graphite and are generally given a "B" or "D" interpretive symbol, denoting a bedrock source. 3422 of these types of responses are interpreted in the current survey areas.

The second class of anomalies comprises moderately broad responses which exhibit the characteristics of a half space and do not yield well-defined inflections on the difference channels. Anomalies in this category are usually given an "S" or "H" interpretive symbol. The lack of a difference channel response usually implies a broad or flat-lying conductive source such as overburden. Some of these anomalies may reflect conductive rock units or zones of deep weathering. 1505 of these types of responses have been interpreted in the current survey areas.

TABLE 4-1
EM ANOMALY STATISTICS
2000 SURVEY
PARTS OF THE ANIAK
AND IDITAROD MINING DISTRICTS

CONDUCTOR GRADE	CONDUCTANCE RANGE SIEMENS (MHOS)	NUMBER OF RESPONSES
7	>100	27
6	50 - 100	5
5	20 - 50	22
4	10 - 20	36
3	5 - 10	99
2	1 - 5	1757
1	<1	2844
*	INDETERMINATE	274
TOTAL		5064

CONDUCTOR MODEL	MOST LIKELY SOURCE	NUMBER OF RESPONSES
D	DISCRETE BEDROCK CONDUCTOR	712
B	DISCRETE BEDROCK CONDUCTOR	2710
S	CONDUCTIVE COVER	1493
H	ROCK UNIT OR THICK COVER	12
E	EDGE OF WIDE CONDUCTOR	43
L	CULTURE	8
M	MAGNETITE	86
TOTAL		5064

The effects of conductive overburden are evident over portions of the survey area, particularly in the low-lying areas. Although the difference channels (DFI and DFQ) are extremely valuable in detecting bedrock conductors which are partially masked by conductive overburden, sharp undulations in the bedrock/overburden interface can yield anomalies in the difference channels which may be interpreted as possible bedrock conductors. Such anomalies usually fall into the "S?" or "B?" classification but may also be given an "E" interpretive symbol, denoting a resistivity contrast at the edge of a conductive unit. These types of responses are not distinguished in the anomaly summary.

The third class of anomalies consists of negative inphase responses which are indicative of magnetite. These are represented by triangles where anomalies appear on the maps and have been annotated with an "M". Where a magnetite anomaly has an associated quadrature response, the interpretation of a conductive source will over-ride the magnetite anomaly and a D, B?, or S? interpretation will be assigned based on the strength and shape of the quadrature response. 86 magnetite anomalies have been interpreted in the survey area.

The fourth class comprises cultural anomalies. 8 responses are attributed to culture and correlate with man-made objects. Any other interpreted conductors which occur in close proximity to these cultural features should be confirmed as bedrock conductors prior to drilling.

The majority of the strong bedrock anomalies have a sufficiently large footprint to produce a strong apparent resistivity low. These may be of interest from an exploration standpoint. Details on each of these anomalies are available in the anomaly listing in Appendix C.

In areas where the electromagnetic response is evident primarily on the quadrature component, zones of poor conductivity are indicated. Where these responses are coincident with magnetic anomalies, it is possible that the inphase component amplitudes have been suppressed by the effects of magnetite. Most of these poorly-conductive magnetic features give rise to resistivity anomalies which are only slightly below background. If it is expected that poorly-conductive economic mineralization may be associated with magnetite-rich units, most of these weakly anomalous features will be of interest. In areas where magnetite causes the inphase components to become negative, the apparent conductance and depth of EM anomalies will be unreliable. The conductance values will tend to be understated.

Anomalies which occur near the ends of the survey lines (i.e., outside the survey area), should be viewed with caution. Some of the weaker anomalies could be due to aerodynamic noise, i.e., bird bending, which is created by abnormal stresses to which the bird is subjected during the climb and turn of the aircraft between lines. Such aerodynamic

noise is usually manifested by an anomaly on the coaxial inphase channel only, although severe stresses can affect the coplanar inphase channels as well.

In some portions of the survey area, the steep topography forced the pilot to exceed normal terrain clearance for reasons of safety. It is possible that some weak conductors may have escaped detection in areas where the bird height exceeded 120 m. In difficult areas where near-vertical climbs were necessary, the forward speed of the helicopter was reduced to a level which permitted excessive bird swinging. This problem, combined with the severe stresses to which the bird was subjected, gave rise to aerodynamic noise levels which are slightly higher than normal. Where warranted, re-flights were carried out to minimize these adverse effects.

Interpretation sketches for the survey area are shown in Figures 4-1a and 4-1b. Conductive and magnetic zones have been identified by the letters "R" and "M" respectively. Linear resistivity contacts within the survey area have been designated by the letter "C".

PARTS OF THE ANIAK AND IDITAROD MINING DISTRICTS

The following discussion describes zones and structural features which have been inferred from the resistivity and magnetic data.

Zone R1 is defined on the resistivity map as a highly conductive zone that contains multiple closely-spaced anomalies indicative of bedrock sources. These bedrock sources, most of which consist of dyke-type anomalies, are characterized by relatively discrete, moderate to strong inphase and quadrature responses. Zone R1 coincides well with a northeast-trending magnetic feature consisting of two highly magnetic zones, M1 and M2. The conductive zone is situated close to marshlands and consists of alluvial, colluvial and eolian deposits of Quarternary age (as illustrated in sheet 1 in Bundtzen and others, 1992).

Conductive zones R2 and R3 represent two highly conductive zones that also consist of multiple closely-spaced bedrock anomalies. A number of dipping dyke-type anomalies occur throughout R2. Most of the dyke-type anomalies within R2 occur in the northern half of the conductive zone and are associated with Cretaceous quartzose sublithic sandstone and silicious shale. The remainder of R2 lies within Quarternary stream alluvium and unconsolidated alluvial, colluvial and eolian deposits. A possible structural feature, F1, cuts through a portion of R2. Magnetic zones M3, M4 and M5 occur at the edges of zones R2 and R3.

Figure 4-1a. Interpretation of parts of the Aniak and Iditarod mining district – page 1 of 2.

Figure 4-1b. Interpretation of parts of the Aniak and Iditarod mining district – page 2 of 2.

Zone R4 represents a small, circular resistivity low that lies along structural feature F1. It is associated with two bedrock anomalies and lies within Quarternary stream alluvium very close to placer tailings.

Zones R5, R6a and R6b are three conductive features that trend to the southwest. All are associated with bedrock anomalies and lie between possible structural features F1 and F2. Zone R6b is a broad highly conductive feature that lies to the east of a town called Flat. Numerous closely-spaced bedrock features, including a few dyke-type anomalies, occur within R6a. A landing strip is located at the northwestern portion of zone R6a between bedrock features. Half the bedrock anomalies in the northern portion are associated with placer tailings, whereas the remainder are associated with Quarternary terrace alluvium and colluvial deposits, as well as some Cretaceous fine-grained sublithic sandstone and siltstone. Zone R6a lies within a southwest-trending magnetic high. Within that are zones M15 and M16. They are two small circular magnetic highs that are associated with dyke-type anomalies and may be of some interest. To the north of R6a are magnetic zones M12 and M14. They are two highly magnetic anomalies that lie in close proximity to structural feature F1. Immediately to the southwest of M14 lies the town of Flat. A cultural anomaly located on line 11590, fiducial 1607 is a dredge.

Zone R6b consists of two northwest-dipping dyke-like anomalies and correlates with a small magnetic high, M19. M19 lies at the northern end of a linear sinusoidal group of magnetic highs labelled M20, M22 and M24. All magnetic features lie along the edge of a broad resistivity low. A dyke-type and bedrock anomaly are associated with M22. M24 lies at the northern end of a possible fault, F6. Numerous bedrock features, most of which are dyke-type anomalies, occur between M22 and M25 just to the south of a conductive zone labelled R2. Zone R6b rests within a Cretaceous quartzose sublithic sandstone and siliceous shale unit.

Zones R7 and R8 are two small oblate or circular resistivity lows that lie on Chicken Mountain. R7 and R8 are associated with bedrock and dyke-type anomalies respectively. Zone R7 lies on the border between a hornfel unit and colluvial deposits, whereas R8 is associated with placer tailings and a placer mine. R7 and R8 lie at the ends of structural features F2 and F5 respectively.

Immediately to the north rests M21 and M23. Both are small oblate magnetic features that are associated with alluvial and colluvial deposits. Magnetic zone M23 consists of a number of dyke-type anomalies.

Just to the south of zones R1 and R2 are numerous resistivity lows and magnetic highs. They include R9 through R20 and M6 through M11.

Zone R9 is a resistivity low that rests within a quartzose sublithic sandstone and siliceous shale unit, colluvial deposits and stream alluvium. Two small magnetic features, M6 and M7, lie along its southern edge. Zone R9 consists of numerous, closely-spaced dyke-type and bedrock anomalies.

Zones R10, R11, R12, R15, R16 and R19 are conductive features that lie within the marshlands along the Iditarod River. Dyke-type anomalies are associated with some of the resistivity lows. R15 coincides with a small circular magnetic high, M9, making it an interesting target.

Conductive zone R13 lies on a slope consisting of colluvial deposits. It is associated with a dipping dyke that is characterized by moderate to strong inphase and quadrature responses.

R14 represents a small, circular, highly conductive feature that rests near the top of a hill. It is associated with two opposing dipping dykes within a monzonite and syenite unit. It lies next to a magnetic high, M8.

Conductive zones R17, R18 and R19 are three conductive zones that contain multiple closely-spaced surficial anomalies. R19 also contains a small number of dyke-type anomalies. All three resistivity lows lie along the edge of a semi-circular magnetic high, M11. R17 is associated with colluvial deposits, whereas R18 and R19 are associated with a mixture of colluvial deposits and mafic volcanic rock.

Magnetic zone M10 lies to the northeast of M11. It is associated with a surficial anomaly within alluvial, colluvial and eolian deposits.

Zones M13, M17 and M18 are three magnetic highs that are sandwiched between three structural features F2, F3a and F3b. All are located along or in close proximity to the western edge of a broad, weakly conductive feature to the east. M13 and M18 are associated with surficial and bedrock anomalies. Structural features F3a and F3b are two known faults shown in the Alaska Geological and Geophysical Surveys map (sheet 1 in Bundtzen and others, 1992). F3a represents the Granite Creek Fault. The magnetic data confirms both their positions. However, fault F3b is shown to end at approximately line 11540, fiducial 2240 on the Alaska Geological & Geophysical Surveys map. The magnetic data indicates the possible continuation of fault F3b from line 11540, fiducial 2240 to approximately line 11460, fiducial 2410 along the relatively linear eastern boundaries of magnetic zones M26, M31, M32 and M33. M13 straddles the Granite Creek fault and lies within a mafic volcanic unit as well as a hornfel unit. M17 lies within a mixture of alluvial deposits and placer tailings. M18 coincides with three Cretaceous units consisting of shale and siltstone, calcareous sandstone and siltstone, and fine-grained sublithic sandstone and siltstone as well as a Tertiary alkali gabbro and monzonite unit.

Immediately to the south of structural features F3b and F5 lies a chain of fragmented highly magnetic features, M26, M31, M32 and M33. Some are associated with sparse surficial and bedrock anomalies. Zones M26 and M31 partially coincide with a northwest-trending conductive feature, R21. M32 consists of a few bedrock anomalies at its southern end. A number of dyke-type anomalies also occur immediately to its northwest. M26 coincides with a hornfel unit within Chicken Mountain, whereas M31 through M33 lie within colluvial and terrace alluvium deposits.

Conductive zone R22 may be of some interest as it represents a relatively conductive section along the Bonanza Creek. A chain of three small, circular magnetic highs, M34, M35 and M36, occur within or close to it. Immediately to its west are two more magnetic anomalies, M32 and M33, which are also part of a chain of magnetic anomalies.

Magnetic zones M27, M28, M29 and M30 represent four small, circular or oblate magnetic highs that may be of interest as they lie along the Granite Creek fault, F3a, close to intersecting faults F4 and F5. M28 lies at the intersection of faults F3a and F4, whereas M29 and M30 are bounded to the south and east by F5 and F3a respectively. Surficial anomalies are associated with both M28 and M29. Two placer mines are located close to these magnetic features that are associated with various intrusive rocks.

Zone M25 is a small, circular magnetic high situated within a broad weakly magnetic feature. It is of interest as it is associated with a dyke-type anomaly as well as three surficial anomalies.

The Iditarod-Nixon Fork fault, F7, can easily be seen on the magnetic and resistivity maps. It is characterized by a number of conductive, linear features, R25, R26, R27 and portions of R23. These features consist of many bedrock and a few surficial anomalies. A number of dyke-type sources also exist along the fault. They occur within R25 and all dip towards the southeast. Two small, oblate magnetic highs, M43 and M47b, coincide with R25. M47b consists of a possible bedrock anomaly and lies within a conductive portion of R25. M43 rests immediately to the southeast of two dipping dyke-type anomalies. A placer mine is located approximately on line 11610, fiducial 3335.

A large, conductive feature, R23, lies partially along the northeastern section of the Iditarod-Nixon Fork fault and continues westward along the northwestern section of the survey area. The linear portion of R23 from line 11071, fiducial 505 to line 11750, fiducial 3045 clearly identifies the fault. A highly conductive section of R23, centered around line 11290, fiducial 1210 consists of numerous bedrock anomalies and some surficial anomalies. This area lies downslope of Chicken Mountain on which a number of placer mines exist. It is possible that it acts as a collection basin for mineralization

transported along rivers located close to mines in the area. This does not preclude the fact that bedrock features could be masked by surficial conductivity.

The western portion of R23 contains multiple closely-spaced anomalies indicative of bedrock sources. These bedrock sources, some of which consist of dyke-type anomalies, are characterized by relatively discrete, moderate to strong inphase and quadrature responses. Most of these anomalies lie within a very conductive mountainous area within R23 centered around line 10750, fiducial 3840. A second conductive area in the western section of R23 is centered around line 10781, fiducial 8400. It occupies a portion of the marshy area around the Iditarod River and is characterized by a number of bedrock and dyke-type anomalies. It is uncertain whether the second conductive area is caused by conductive sediments or bedrock features masked by surficial conductivity. Both of these conductive features coincide with a large, circular magnetic high, M41, that may represent an igneous intrusion.

Two highly magnetic features, M37 and M38, are situated in an area within R23 consisting of numerous closely-spaced bedrock anomalies. A number of dyke-type anomalies occur within and around these magnetic features.

Immediately to the south are two small, circular magnetic features, M39 and M40. They may be of interest as they are located within a weakly magnetic area and close to conductive zone R23.

Zone R24 represents a small conductive zone close to R23. It is located on high ground and is associated with a bedrock and dyke-type anomaly.

A number of highly magnetic features, M42, M44, the northeastern portion of M50, and M51 form a linear structure that clearly delineates the Iditarod-Nixon Fork fault. They are associated with a mixture of bedrock, surficial and magnetite anomalies. Numerous structural features bound and intersect M50. They include F8, F9, F10, F11, F12, F13, F14a and F14b. Structural feature F13 trends southwest from the Iditarod-Nixon Fork fault from line 10961, fiducial 9470 to approximately line 10510, fiducial 3495. A possible fault, F10, intersects M50 forming a left lateral offset between possible faults F14a and F14b. A small number of bedrock and dyke-type anomalies lie close to F10. A possible bedrock anomaly rests at the intersection of F10, F14a and F14b. A slight offset between the coaxial and coplanar EM signals indicate a possible dip toward the northwest. The U.S. Department of the Interior Geological Survey map (Cady and others, 1955) indicates that these structures lie within a Cretaceous Iditarod basalt unit.

Another large magnetic unit that lies within the Iditarod basalt unit is M47a. It is intersected by two possible faults, F12 and F13, and bounded to the east by structural features F14b and F14c. The magnetic data suggests an offset between F14b and F14c on

approximately line 10770, fiducial 9250. Surficial, bedrock and strong magnetic anomalies are associated with this feature. Two small conductive features, R28 and R30, lie within M47a. R28 coincides with a small magnetic low area within M47a and consists of two bedrock anomalies at its western edge. R30 lies along a possible fault, F12, that intersects M47a. Three dyke-type anomalies lie immediately to the northwest of R30 and may be of interest.

R29 rests at the southeast corner of M47a along a possible fault, F12. It is associated with a couple of surficial anomalies and two bedrock anomalies along or close to F12.

A number of small, oblate magnetic highs rest amongst the larger magnetic features. They include M45, M46, M48 and M49. M45 lies between two westerly-trending possible faults, F8 and F9, and is associated with a surficial anomaly. M46 is sandwiched between R29 and a weakly conductive feature to its south. Zones M48 and M49 are bounded to the north, south and east by probable faults F11, F12 and F13 respectively.

A number of magnetic highs lie to the south of M47A and may be of interest. They include M52 through M59 and rest along or between three structural features F13, F14d and F14e. All are associated with surficial anomalies with the exception of M53 and M57, which are also associated with a bedrock anomaly. A small number of bedrock and one dyke-type anomaly occur along the southwestern section of F13 near M52 and M53. A left lateral offset occurs on line 10720, fiducial 8560 separating structural features F14c and F14d. The DeCourcy Mountain mine lies along F14d between magnetic zones M58 and M59.

Just to the south of the Iditarod-Nixon Fork fault, adjacent to magnetic zone M50, are two elongated resistivity lows, R34 and R35. They appear to lie along a linear conductive feature that trends southwest from the Iditarod-Nixon Fork fault near line 11200, fiducial 5215 to at least line 10910, fiducial 6230. This feature exhibits similar conductivity values and width to resistivity lows along the Iditarod-Nixon Fork fault. It is very possible that it may delineate a probable fault. However, the magnetic data does not clearly indicate this. Zones R34 and R35 are characterized mostly by bedrock anomalies and a couple of surficial anomalies. A small, circular resistivity low centered on line 10930, fiducial 1510 may be of interest as it represents a relatively conductive area within R35 and lies in close proximity to probable faults, F8, F9 and F14a.

Two large conductive zones, R46 and R50, lie immediately to the south of probable faults F14c, F14d and F14e. Both occur in weakly magnetic areas and are associated with bedrock anomalies. A strong oblate resistivity low centered on line 10815, fiducial 8430, within the northeastern part of R46, consists of a couple of bedrock

anomalies. The northeastern boundary of the offset between structural features F14b and F14c (clearly seen on the magnetic map from line 10790, fiducial 4315 to line 10800, fiducial 3045) seems to terminate at the oblate resistivity low, further increasing its importance.

To the south of R50 lies resistivity low R51. It represents a relatively conductive feature within a larger resistivity low. This feature consists of one bedrock anomaly and is bordered to the north by two small, circular, weak magnetic features M65 and M66.

There are a number of resistivity lows that lie within a large broad northeast-trending resistivity low. They include R32, R33, R39, R40, R41, R42, R43, R44, R45, R48, R49 and R53. They occur within a low gradient magnetic area and are associated with bedrock and dyke-type anomalies. R32 and R44 lie near a distinctive linear resistivity contact, C1, and may therefore be of interest. R44 is a highly conductive zone on the western slope of Lookout Mountain through which rivers flow toward the Donlin Creek. The U.S. Department of the Interior Geological Survey map (Cady & others, 1955) indicates that R44 rests within the Kuskokwim Group. Numerous mines and prospects are indicated toward the south of R44 along the Donlin Creek.

Resistivity contact, C1, is very distinctive on the resistivity maps, and shows some correlation with the magnetic data. Magnetic data from line 11380, fiducial 2460 to line 11290, fiducial 435; from line 11170, fiducial 1800 to line 11050, fiducial 7620; and from line 11040, fiducial 6370 to line 10930, fiducial 1765 exhibit similar patterns visible on the resistivity data. This suggests that this contact is probably related to bedrock features. Numerous bedrock and dyke-type anomalies correlate with this contact. Some dyke-type anomalies that correlate with C1 include those on the eastern boundary of R32, the southern boundary of R44 and a couple of anomalies centered on line 10870, fiducial 9338.

M60 through M64 represent small, discrete, oblate magnetic features that may be of interest. All, with the exception of M60, occur in weakly magnetic areas. Unlike the others, M60 also occurs within a resistive area. M63 and M64 coincide with highly conductive zones, R45 and R48 respectively.

Similarly, four small, circular resistivity lows occur within the northern half of the survey area may be of interest and require further investigation. They include L1 through L4.

In the northeastern section of the survey area lies R31. It represents a circular, relatively conductive zone that rests within a southwest-trending weakly conductive feature. Two bedrock (including a dyke-type anomaly) and two surficial anomalies are associated with it. A number of dyke-type anomalies also occur to its southwest.

Three west-trending resistivity lows, R36, R37 and R38, occur to the east of resistivity contact C1 and are associated with bedrock and surficial anomalies. All lie within the Kuskokwim Group.

A small resistivity low, R47, may be of interest as it occurs within a resistive area. This circular anomaly is associated with a possible bedrock anomaly and lies approximately 2.5 km (1.5 miles) southeast of a placer mine and landing strip on approximately line 11000, fiducial 6740.

Another resistivity contact, C2, occurs approximately 6 km (4 miles) to the south of C1. This contact generally correlates with the magnetic data. Numerous bedrock (including dyke-type anomalies) and surficial anomalies occur along this contact within a narrow, sinuous conductive feature that trends west from line 11220, fiducial 3020 to line 10961, fiducial 8950.

R54 is a conductive zone that occurs near contact C2. It is associated with a bedrock anomaly and occurs in close proximity to other bedrock anomalies.

Zone R52 represents a very large, broad and highly conductive zone in the central portion of the survey area whose southern border ends near the base of the Horn Mountains. It contains multiple closely-spaced anomalies indicative of bedrock sources which are characterized by relatively discrete and moderate inphase and quadrature responses. Zone R52 is associated with various depositional units. They include Quarternary alluvial, colluvial and glacial units as well as the Tertiary and Cretaceous volcanic rocks of the Horn Mountains volcanic field. Various magnetic zones and structural breaks occur within R52.

F15a represents a known fault (sheet 1 in Bundtzen and others, 1999) that trends southeast through R52. The magnetic data, although not very definitive, suggests that this fault may extend a little further to the southeast. The resistivity data, however, clearly accentuates the extension of the fault, labelled as F15B. A small, circular resistivity low, L5, lies close to F15A. It rests on the edge of a larger resistivity low and a circular resistive feature.

Structural feature F16 is a probable fault that trends parallel to F15B. It can be seen in both the magnetic and resistivity data.

Two small, circular magnetic features, M67 and M68, lie within the northern section of R52 and are associated with bedrock anomalies. They may be of interest as they occur within a magnetically weak area.

A small resistivity low within R52, centered on line 10530, fiducial 5240, is of great interest. It is situated on lower ground between two peaks of the Juningular Mountain. This low is associated with bedrock and dyke-type anomalies. Anomalies 10520H and 10530N, within the resistivity low, are both characterized by discrete, moderate to strong EM amplitudes. A dipping dyke towards the southeast is indicated within the resistivity low which is associated with fan and terrace deposits.

Three magnetic features, M69, M70 and M71, occur near two perpendicular faults, F17 and F18. M70 occurs along a known fault (sheet 1 in Bundtzen and others, 1999) and coincides with a broad resistivity low, R52. M69 rests at one end of F17 and coincides with a resistivity high. Numerous closely-spaced bedrock and dyke-type anomalies occur to its southwest and east. M70 and M71 are associated with both bedrock and dyke-type anomalies.

There are other northeast-trending structural breaks within R52. They include F19 through F27 and F35. They intersect or occur close to numerous highly magnetic features immediately north of the Horn Mountains and include M73 through M76, M78, M79 and M90 through M94. All are associated with multiple closely-spaced bedrock anomalies as well as a number of dyke-type anomalies. Five anomalies to the east of F19 may be of interest. They include four bedrock anomalies (10510X, 10510Y, 10520N and 10520O) and one dipping dyke-like anomaly (10530V). All are discrete anomalies that are characterized by moderate to strong EM amplitudes. The southern portion of zone M92 is bounded by three possible faults, F32, F33 and F34. Within this area, are a large number of closely-spaced bedrock sources, including a couple of dyke-like sources.

There are a number of narrow magnetic features that may be of interest. They include M72, M77A, M77B, M94 and M103. All trend northeast, similar to various probable faults in the area, and most are associated with bedrock anomalies. M94 may be part of a weakly magnetic feature that trends northeast from line 10630, fiducial 6150 to line 10680, fiducial 6717. M77A and M77B are most likely part of the same feature that lie north of a northwest-trending probable fault, F28.

A small, circular, highly magnetic feature, M80, rests to the east of F28, between R61 and R52. It is associated with two bedrock anomalies including a northwest-dipping dyke-like anomaly.

Known faults, F29 and F31, illustrated in the Alaska Division of Geological & Geophysical Surveys map (sheet 1 in Bundtzen and others, 1999), trend northeast within conductive zone R52. Portions of each fault can be seen in both the magnetic and resistivity data. Structural feature F30 lies in between F29 and F31 and can be clearly seen in the magnetic data.

A number of small highly magnetic features lie along or close to faults F29, F30 and F31. They include M81 through M89 and may be of interest. M89 lies at the intersection of F31 and F32 and is associated with a number of bedrock anomalies.

Other small magnetic highs situated near faults include M95 through M102, and M104 through M109. Most are associated with bedrock anomalies and coincide with or lie along the edge of resistivity zone R52. These magnetic features are situated close to a cluster of intersecting faults, F32, F33, F34 and F36. Magnetic zone M99B is situated within a resistive break at the southern portion of R52 and is intersected by a semi-circular structural break F36. The portion of M99B, north of F36, correlates well with a volcanic unit. A bedrock and dyke-type anomaly occur at the intersection of M99B and F36.

Highly magnetic zones M110 and M113 through M131 occur in a large, circular region that represents a volcanic-plutonic complex. A 700 m thick volcanic succession, referred to as the Horn Mountains Volcanic Field by Bundtzen and others (1999), covers a 285 km² (178 mi²) circular region on the Horn Mountains. It ranges in composition from basaltic andesite to rhyolite. The Horn Mountains pluton, which underlies and intrudes the Horn Mountains Volcanic Field consists of granodiorite and lesser amounts of quartz monzodiorite, quartz diorite, and granite. A hornfel unit lies at the southern edge of the Horn Mountains.

Numerous faults occur within or on the edges of the Horn Mountains Volcanic Field. They include F37, F38, F39, F40A, F40B, F41A and F41B. Known faults, F37, F38, F40B and F41A correlate well with the magnetic data confirming their locations. F37, like F31, follows the near linear 1000 ohm-m contour line on the 900 Hz resistivity map in the Horn Mountains and may actually be the continuation of F31. F41A also correlates with the 900 Hz resistivity data at the southern boundary of the Horn Mountains volcanic-plutonic complex. F39 is a semi-circular structural break that partially correlates with the Whitewing Valley within the Horn Mountains. There are five mineral prospects or occurrences within the Horn Mountains volcanic-plutonic complex. They include the Jungjuk prospect on line 10420, fiducial 5193; the Getmuna Creek prospect and Saddle occurrence on line 10330, fiducials 4815 and 4853 respectively; and the Sue Creek prospect on line 10211, fiducial 4434. Three nameless mines or prospects are situated within or near M117 on line 10246, fiducial 8550 and line 10221, fiducials 6345 and 6435.

A northwest-trending glacial outwash channel is indicated on the Alaska Division of Geological & Geophysical Surveys map (Bundtzen and others, 1999) just to the west of M117 and M118. Known fault F41B correlates well with the resistivity data and splits up towards the southwest forming F41C, another known fault in the area that generally correlates with the magnetic data. Some correlation with the resistivity data also exists.

Four highly conductive features, R62A, R62B, R62C and R73 occur at the western and southern boundaries of the Horn Mountains. They consist of bedrock and surficial

anomalies and are associated with outwash fan deposits. R62A and R62B, which may be part of the same feature, coincide with magnetic zones M111 and M112 respectively. The Alaska Geological & Geophysical Surveys map (sheet 1 in Bundtzen and others, 1999) indicates that the southern boundary of R62C coincides with a glacial outwash channel.

Five small magnetic features, M132 through M136, occur along fault F41B, close to conductive feature R73. They are either associated with or occur close to bedrock anomalies. M134 lies in the path of a glacial outwash channel (see Alaska Geological & Geophysical Surveys map in Bundtzen and others, 1999).

To the east of conductive zone R52 lie zones R55 and R56. They are situated within a broader east/west trending conductive feature. R55 is associated with a bedrock and dyke-type anomaly. A small cluster of further bedrock and dyke-type anomalies occurs to its immediate northeast. R56 consists of one bedrock anomaly.

Zone R57 is a large conductive east/west trending feature in the eastern section of the survey area. Its northern half consists of a number of bedrock and dyke-type anomalies as well as a couple of surficial anomalies.

R58 occurs to the south of Crooked Creek and crosses a part of the Kuskoskwim River. It may be of interest as it lies along a structural break, F15B.

Immediately to its east is R59. It is a small conductive feature that occurs at the southern portion of a marsh. It is associated with a bedrock anomaly and coincides with a magnetic feature, M141. It is of interest as it represents a highly conductive anomaly in the area.

A number of magnetic features, M137 through M140 and M142 through M145, occur in the vicinity. A couple of them are associated with bedrock and surficial anomalies.

Zone R60 lies within a west trending conductive feature and is intersected by a southeast-trending probable fault, F16. A small number of surficial and bedrock sources occur within and around R60.

Another west-trending conductive feature occurs to the south of R60. It consists of zones R63, R64 and R65. All are associated with bedrock and a few surficial anomalies. Structural feature F16 intersects the eastern section of R63. Two dyke-type sources occur in that area. A probable fault, F15B, can be traced to the north of R64. It is uncertain whether it actually intersects it.

A strong, circular, magnetic low, L6, occurs at the western tip of R63. Further investigations are required to determine its source.

A small conductive feature, R66, may be of interest as it is situated to the west of a structural feature, labelled F42. F42 intersects F16 and can be seen on both the magnetic and resistivity data.

A resistivity contact, C3, occurs in the southeastern portion of the survey area. It coincides with the magnetic data suggesting it is probably related to bedrock features rather than conductive overburden.

Just to the south of the northern boundary of C3 lies R67. It is bounded to the east by structural feature F16 and lies along the southern side of Canoe Mountain. It consists of a few surficial anomalies. Three bedrock anomalies, including one dyke-like anomaly, occur along its northern boundary.

Conductive zones R68 and R69 rest immediately to the east of the resistivity contact C3. Both coincide with small, oblate magnetic anomalies; these being M146, M147 and M148. A number of bedrock and dyke-like anomalies are associated with the conductive zones including one southeast-dipping dyke-like anomaly that coincides with both R69 and M147. The dyke-like anomalies exhibit classic coaxial peaks and coplanar troughs. Most of the anomalies, especially the dyke-like anomalies, are characterized by very discrete, moderately strong inphase and quadrature responses making them interesting targets.

Zone R72 is a narrow, sinuous conductive feature that may be the continuation of R69. It, however, lies along the low lands and marshes along the Kuskokwim River. The high conductivity within this feature may therefore be due to conductive sediments in the marsh and the banks of the river. However, two narrow magnetic features, M150 and M151, correlate well with R72, suggesting that possible bedrock features may be the source. Further investigations are required to determine the sources of the anomalies. A dyke-type and numerous bedrock features are associated with all three features.

Zones R71 and R72 represent two features that are a little more conductive than the surrounding area. They are associated with a bedrock and surficial anomaly and coincide with a magnetic high, M149.

R74 is a conductive feature that may be of interest as it is intersected by a fault, F41c. It consists of a couple of dyke-like and surficial anomalies. Three dyke-like anomalies occur to its north between faults F41b and F41c.

Immediately to the east are magnetic zones M152 and M153. Both consist of surficial anomalies. A probable fault, F47, may actually continue further to the northeast between M152 and M153.

Numerous cross-cutting structural features lie in the southern portion of the survey area and include F43 through F48. A number of magnetic highs and resistivity lows occur near or along these structural breaks making them interesting anomalies.

M154 is a small, circular, highly magnetic feature that lies near the intersection of F45 and F47. It is associated with two bedrock anomalies and lies along a west-trending conductive feature.

M155 is a narrow magnetic high that lies near the intersection of three probable faults, F43, F45 and F46. It consists of a bedrock anomaly and lies within a sinusoidal conductive feature that includes R72, R75, R76 and R77.

Conductive zones R75, R76 and R77 are three small resistivity lows that lie along or close to the intersection of probable faults. R75 and R77 are associated with surficial anomalies, whereas R76 consists of one bedrock anomaly. A dyke-like anomaly occurs to the southeast of R76 near the intersection of F47 and F48.

R78 represents a circular, conductive feature within the Kuskokwim River. It is associated with a number of closely-spaced bedrock anomalies near the edge of a large highly magnetic feature, M159.

A highly conductive feature, R79, is bounded to the north by structural feature F48 and intersected by two southeast-trending probable faults, F43 and F44. Numerous bedrock anomalies are associated with this feature, some of which are located within the Kuskokwim River. A sinusoidal feature and two oblate resistivity lows within R79 may be of interest as they represent highly conductive areas. The southern section of the sinusoidal feature that trends northwest from line 10290, fiducial 4575 to line 10231, fiducial 8380 lies along a possible fault, F47 and consists of a few bedrock sources further increasing its interest. Three small magnetic highs, M156, M157 and M158 lie within or along the boundary of R79. All are associated with dyke-type anomalies and lie close to the most conductive sections within R79.

Conductive zones R80 and R81 are two interesting targets in the southwest portion of the survey area. They lie within a linear, northeast-trending conductive feature that parallels a fault, F41c. R81 is a circular, discrete, highly conductive feature that is associated with closely-spaced bedrock and dyke-like anomalies. A number of bedrock anomalies within this feature are characterized by moderate and discrete inphase and quadrature responses. Anomalies 10060J and 10060K are of great interest as they are

characterized by very strong, discrete EM signals. R80 falls within a coarse-grain, proximal turbiditic sandstone and siltstone unit within the Kuskokwim Group. R81 has similar characteristics as R80, but is associated with Alluvial deposits.

A large, northeast-trending conductive zone, R82, occurs at the southern edge of the survey area. It coincides with a similarly large magnetic high, M159, and contains multiple closely-spaced anomalies indicative of bedrock sources. The southwest part of R82 correlates well with a Holokuk gravel unit, whereas the remainder coincides with a quartzite sandstone, shale and slump breccia unit and a fine-grained sublithic sandstone and siltstone unit, both of which are part of the Kuskokwim Group, and various colluvial and alluvial depositional units.

Just to the south of R82 is a known fault labelled as F49. The Alaska Geological & Geophysical Surveys map (sheet 1 in Bundtzen and others, 1999) indicates that this fault trends southwest to approximately line 10320, fiducial 6015. The magnetic data, however, indicates that this fault continues further to the southwest through the grid.

Two conductive features, R83 and R84, lie on either side of the fault, F49. Both consist of bedrock anomalies and are associated with colluvial and alluvial deposits.

Discussion

The geophysical results, in general, correlate with the known geology in the survey area. The results, in places, confirm the general trends and serve to extend the mapping of individual geologic units beneath the surface.

The geology in the survey area is quite complex. A number of large magnetic features dominate portions of the grid. The magnetic data show some correlation with the geology and highlights contacts and known faults in the area. Some strong magnetic features contain moderate amounts of magnetite, most likely representing mafic intrusions. The resistivity data shows some correlation with the geology in the area. A number of large resistivity lows occur in the survey block. They show some agreement with the magnetic trends, suggesting they are related to bedrock features rather than conductive overburden.

CONCLUSIONS AND RECOMMENDATIONS

This report describes the equipment, procedures and logistics of the survey and provides a brief description of the survey results.

The total field magnetic and apparent resistivity data sets have successfully mapped the magnetic and conductive characteristics of the geology in the survey areas. Numerous faults and contacts have been inferred from the survey results. There are many discrete electromagnetic anomalies in the survey areas which are typical of massive sulphide or graphite responses. The survey was also successful in locating several larger conductive zones which may also warrant additional work.

It is difficult to assess the relative merits of EM anomalies on the basis of conductance alone. It is recommended that an attempt be made to compile a suite of geophysical "signatures" over areas of interest. Anomaly characteristics and correlation with the other geophysical parameters are perhaps best defined on the Multi-parameter Stacked Profiles.

It is recommended that the survey results be reviewed in detail, in conjunction with all available geophysical, geological and geochemical information. Particular reference should be made to the multi-parameter stacked profiles which clearly define the characteristics of the individual anomalies in the identification of target areas. Image processing of existing geophysical data be considered, in order to extract the maximum amount of information from the survey results.

Respectfully submitted,

FUGRO AIRBORNE SURVEYS

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R0660JUL.99

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APPENDIX A

LIST OF PERSONNEL

The following personnel were involved in the acquisition, processing, interpretation and presentation of data, relating to a DIGHEM^V airborne geophysical survey carried out under contract to WGM Inc., Mining and Geological Consultants, for the State of Alaska in the Ketchikan area, southeast Alaska.

Chris Nind	General Manager, Toronto Office
Greg Paleolog	Manager, Helicopter Operations
Duane Griffith	Field Geophysicist
Travis Reed	Geophysical Operator
Walt Greaves	Pilot (Era Aviation Inc.)
Doug McConnell	Manager, Interpretation and Processing
Dak Darbha	Processing Geophysicist
Mark Stephens	Interpretation Geophysicist
Doug McConnell	Interpretation Geophysicist
Lyn Vanderstarren	Drafting Supervisor
Susan Pothiah	Word Processing Operator
Albina Tonello	Secretary/Expeditor

The survey consisted of 5,709.6 miles (9,186.7 km) of coverage, flown from April 12 to May 8, 2000.

All personnel are employees of Fugro Airborne Surveys, except for the pilots who are employees of Era Aviation Inc.

APPENDIX B

BACKGROUND INFORMATION

BACKGROUND INFORMATION

Electromagnetics

DIGHEM electromagnetic responses fall into two general classes, discrete and broad. The discrete class consists of sharp, well-defined anomalies from discrete conductors such as sulphide lenses and steeply dipping sheets of graphite and sulfides. The broad class consists of wide anomalies from conductors having a large horizontal surface such as flatly dipping graphite or sulphide sheets, saline water-saturated sedimentary formations, conductive overburden and rock, and geothermal zones. A vertical conductive slab with a width of 200 m would straddle these two classes.

The vertical sheet (half plane) is the most common model used for the analysis of discrete conductors. All anomalies plotted on the geophysical maps are analyzed according to this model. The following section entitled **Discrete Conductor Analysis** describes this model in detail, including the effect of using it on anomalies caused by broad conductors such as conductive overburden.

The conductive earth (half space) model is suitable for broad conductors. Resistivity contour maps result from the use of this model. A later section entitled **Resistivity Mapping** describes the method further, including the effect of using it on anomalies caused by discrete conductors such as sulphide bodies.

Geometric Interpretation

The geophysical interpreter attempts to determine the geometric shape and dip of the conductor. Figure B-1 shows typical DIGHEM anomaly shapes which are used to guide the geometric interpretation.

Discrete Conductor Analysis

The EM anomalies appearing on the electromagnetic map are analyzed by computer to give the conductance (i.e., conductivity-thickness product) in siemens (mhos) of a vertical sheet model. This is done regardless of the interpreted geometric shape of the conductor. This is not an unreasonable procedure, because the computed conductance increases as the electrical quality of the conductor increases, regardless of its true shape. DIGHEM anomalies are divided into seven grades of conductance, as shown in Table B-1. The conductance in siemens (mhos) is the reciprocal of resistance in ohms.

The conductance value is a geological parameter because it is a characteristic of the conductor alone. It generally is independent of frequency, flying height or depth of burial, apart from the averaging over a greater portion of the conductor as height increases. Small anomalies from deeply buried strong conductors are not confused with small anomalies from shallow weak conductors because the former will have larger conductance values.

Table B-1. EM Anomaly Grades

<u>Anomaly Grade</u>	<u>Siemens</u>
7	> 100
6	50 - 100
5	20 - 50
4	10 - 20
3	5 - 10
2	1 - 5
1	< 1

Conductive overburden generally produces broad EM responses which may not be shown as anomalies on the geophysical maps. However, patchy conductive overburden in otherwise resistive areas can yield discrete anomalies with a conductance grade (cf. Table B-1) of 1, 2 or even 3 for conducting clays which have resistivities as low as 50 ohm-m. In areas where ground resistivities are below 10 ohm-m, anomalies caused by weathering variations and similar causes can have any conductance grade. The anomaly shapes from the multiple coils often allow such conductors to be recognized, and these are indicated by the letters S, H, and sometimes E on the geophysical maps (see EM legend on maps).

For bedrock conductors, the higher anomaly grades indicate increasingly higher conductances. Examples: DIGHEM's New Insko copper discovery (Noranda, Canada) yielded a grade 5 anomaly, as did the neighbouring copper-zinc Magusi River ore body; Mattabi (copper-zinc, Sturgeon Lake, Canada) and Whistle (nickel, Sudbury, Canada) gave grade 6; and DIGHEM's Montcalm nickel-copper discovery (Timmins, Canada) yielded a grade 7 anomaly. Graphite and sulfides can span all grades but, in any particular survey area, field work may show that the different grades indicate different types of conductors.

Strong conductors (i.e., grades 6 and 7) are characteristic of massive sulfides or graphite. Moderate conductors (grades 4 and 5) typically reflect graphite or sulfides of a less massive character, while weak bedrock conductors (grades 1 to 3) can signify poorly connected graphite or heavily disseminated sulfides. Grades 1 and 2 conductors may not respond to ground EM equipment using frequencies less than 2000 Hz.

The presence of sphalerite or gangue can result in ore deposits having weak to moderate conductances. As an example, the three million ton lead-zinc deposit of

Restigouche Mining Corporation near Bathurst, Canada, yielded a well-defined grade 2 conductor. The 10 percent by volume of sphalerite occurs as a coating around the fine grained massive pyrite, thereby inhibiting electrical conduction. Faults, fractures and shear zones may produce anomalies which typically have low conductances (e.g., grades 1 to 3). Conductive rock formations can yield anomalies of any conductance grade. The conductive materials in such rock formations can be salt water, weathered products such as clays, original depositional clays, and carbonaceous material.

For each interpreted electromagnetic anomaly on the geophysical maps, a letter identifier and an interpretive symbol are plotted beside the EM grade symbol. The horizontal rows of dots, under the interpretive symbol, indicate the anomaly amplitude on the flight record. The vertical column of dots, under the anomaly letter, gives the estimated depth. In areas where anomalies are crowded, the letter identifiers, interpretive symbols and dots may be obliterated. The EM grade symbols, however, will always be discernible, and the obliterated information can be obtained from the anomaly listing appended to this report.

The purpose of indicating the anomaly amplitude by dots is to provide an estimate of the reliability of the conductance calculation. Thus, a conductance value obtained from a large ppm anomaly (3 or 4 dots) will tend to be accurate whereas one obtained from a small ppm anomaly (no dots) could be quite inaccurate. The absence of amplitude dots indicates that the anomaly from the coaxial coil-pair is 5 ppm or less on both the inphase and quadrature channels. Such small anomalies could reflect a weak conductor at the surface or a stronger conductor at depth. The conductance grade and depth estimate illustrates which of these possibilities fits the recorded data best.

The conductance measurement is considered more reliable than the depth estimate. There are a number of factors which can produce an error in the depth estimate, including the averaging of topographic variations by the altimeter, overlying conductive overburden, and the location and attitude of the conductor relative to the flight line. Conductor location and attitude can provide an erroneous depth estimate because the stronger part of the conductor may be deeper or to one side of the flight line, or because it has a shallow dip. A heavy tree cover can also produce errors in depth estimates. This is because the depth estimate is computed as the distance of bird from conductor, minus the altimeter reading. The altimeter can lock onto the top of a dense forest canopy. This situation yields an erroneously large depth estimate but does not affect the conductance estimate.

Typical DIGHEM anomaly shapes

Figure B-1

Dip symbols are used to indicate the direction of dip of conductors. These symbols are used only when the anomaly shapes are unambiguous, which usually requires a fairly resistive environment.

A further interpretation is presented on the EM map by means of the line-to-line correlation of bedrock anomalies, which is based on a comparison of anomaly shapes on adjacent lines. This provides conductor axes which may define the geological structure over portions of the survey area. The absence of conductor axes in an area implies that anomalies could not be correlated from line to line with reasonable confidence.

DIGHEM electromagnetic anomalies are designed to provide a correct impression of conductor quality by means of the conductance grade symbols. The symbols can stand alone with geology when planning a follow-up program. The actual conductance values are printed in the attached anomaly list for those who wish quantitative data. The anomaly ppm and depth are indicated by inconspicuous dots which should not distract from the conductor patterns, while being helpful to those who wish this information. The map provides an interpretation of conductors in terms of length, strike and dip, geometric shape, conductance, depth, and thickness. The accuracy is comparable to an interpretation from a high quality ground EM survey having the same line spacing.

The attached EM anomaly list provides a tabulation of anomalies in ppm, conductance, and depth for the vertical sheet model. The EM anomaly list also shows the conductance and depth for a thin horizontal sheet (whole plane) model, but only the vertical sheet parameters appear on the EM map. The horizontal sheet model is suitable for a flatly dipping thin bedrock conductor such as a sulphide sheet having a thickness less than 10 m. The list also shows the resistivity and depth for a conductive earth (half space) model, which is suitable for thicker slabs such as thick conductive overburden. In the EM anomaly list, a depth value of zero for the conductive earth model, in an area of thick cover, warns that the anomaly may be caused by conductive overburden.

Since discrete bodies normally are the targets of EM surveys, local base (or zero) levels are used to compute local anomaly amplitudes. This contrasts with the use of true zero levels which are used to compute true EM amplitudes. Local anomaly amplitudes are shown in the EM anomaly list and these are used to compute the vertical sheet parameters of conductance and depth. Not shown in the EM anomaly list are the true amplitudes which are used to compute the horizontal sheet and conductive earth parameters.

Questionable Anomalies

DIGHEM maps may contain EM responses which are displayed as asterisks (*). These responses denote weak anomalies of indeterminate conductance, which may reflect one of the following: a weak conductor near the surface, a strong conductor at depth (e.g.,

100 to 120 m below surface) or to one side of the flight line, or aerodynamic noise. Those responses that have the appearance of valid bedrock anomalies on the flight profiles are indicated by appropriate interpretive symbols (see EM legend on maps). The others probably do not warrant further investigation unless their locations are of considerable geological interest.

The Thickness Parameter

DIGHEM can provide an indication of the thickness of a steeply dipping conductor. The amplitude of the coplanar anomaly (e.g., CPI channel on the digital profile) increases relative to the coaxial anomaly (e.g., CXI) as the apparent thickness increases, i.e., the thickness in the horizontal plane. (The thickness is equal to the conductor width if the conductor dips at 90 degrees and strikes at right angles to the flight line.) This report refers to a conductor as thin when the thickness is likely to be less than 3 m, and thick when in excess of 10 m. Thick conductors are indicated on the EM map by parentheses "()". For base metal exploration in steeply dipping geology, thick conductors can be high priority targets because many massive sulphide ore bodies are thick, whereas non-economic bedrock conductors are often thin. The system cannot sense the thickness when the strike of the conductor is sub-parallel to the flight line, when the conductor has a shallow dip, when the anomaly amplitudes are small, or when the resistivity of the environment is below 100 ohm-m.

Resistivity Mapping

Resistivity mapping is useful in areas where broad or flat-lying conductive units are of interest. One example of this is the clay alteration that is associated with Carlin-type deposits in the southwest United States. The DIGHEM system was able to identify the clay alteration zone over the Cove deposit. The alteration zone appeared as a strong resistivity low on the 900 Hz resistivity parameter. The 7,200 Hz and 56,000 Hz resistivities show more of the detail in the covering sediments, and delineate a range front fault. This is typical in many areas of the southwest United States where conductive, near-surface sediments, which may sometimes be alkaline, attenuate the higher frequencies.

Resistivity mapping has proven successful for locating diatremes in diamond exploration. Weathering products from relatively soft kimberlite pipes produce a resistivity contrast with the unaltered host rock. In many cases weathered kimberlite pipes were associated with thick conductive layers which contrasted with overlying or adjacent relatively thin layers of lake-bottom sediments or overburden.

Areas of widespread conductivity are commonly encountered during surveys. These conductive zones may reflect alteration zones, shallow-dipping sulphide or graphite-rich units or conductive overburden. In such areas, anomalies can be generated by

decreases of only 5 m in survey altitude as well as by increases in conductivity. The typical flight record in conductive areas is characterized by inphase and quadrature channels which are continuously active. Local EM peaks reflect either increases in conductivity of the earth or decreases in survey altitude. For such conductive areas, apparent resistivity profiles and contour maps are necessary for the correct interpretation of the airborne data. The advantage of the resistivity parameter is that anomalies caused by altitude changes are virtually eliminated, so the resistivity data reflect only those anomalies caused by conductivity changes. The resistivity analysis also helps the interpreter to differentiate between conductive bedrock and conductive overburden. For example, discrete conductors will generally appear as narrow lows on the contour map and broad conductors (e.g., overburden) will appear as wide lows.

The apparent resistivity is calculated using the pseudo-layer (or buried) half space model defined by Fraser (1978)¹. This model consists of a resistive layer overlying a conductive half space. The depth channels give the apparent depth below surface of the conductive material. The apparent depth is simply the apparent thickness of the overlying resistive layer. The apparent depth (or thickness) parameter will be positive when the upper layer is more resistive than the underlying material, in which case the apparent depth may be quite close to the true depth.

The apparent depth will be negative when the upper layer is more conductive than the underlying material, and will be zero where a homogeneous half space exists. The apparent depth parameter must be interpreted cautiously because it will contain any error which may exist in the measured altitude of the EM bird (e.g., as caused by a dense tree cover). The inputs to the resistivity algorithm are the inphase and quadrature components of the coplanar coil-pair. The outputs are the apparent resistivity of the conductive half space (the source) and the sensor-source distance. The flying height is not an input variable, and the output resistivity and sensor-source distance are independent of the flying height when the conductivity of the measured material is sufficient to yield significant inphase as well as quadrature responses. The apparent depth, discussed above, is simply the sensor-source distance minus the measured altitude or flying height. Consequently, errors in the measured altitude will affect the apparent depth parameter but not the apparent resistivity parameter.

The apparent depth parameter is a useful indicator of simple layering in areas lacking a heavy tree cover. The DIGHEM system has been flown for purposes of permafrost mapping, where positive apparent depths were used as a measure of permafrost

¹ Resistivity mapping with an airborne multi-coil electromagnetic system: Geophysics, v. 43, p.144-172

thickness. However, little quantitative use has been made of negative apparent depths because the absolute value of the negative depth is not a measure of the thickness of the conductive upper layer and, therefore, is not meaningful physically. Qualitatively, a negative apparent depth estimate usually shows that the EM anomaly is caused by conductive overburden. Consequently, the apparent depth channel can be of significant help in distinguishing between overburden and bedrock conductors.

Interpretation in Conductive Environments

Environments having low background resistivities (e.g., below 30 ohm-m for a 900 Hz system) yield very large responses from the conductive ground. This usually prohibits the recognition of discrete bedrock conductors. However, DIGHEM data processing techniques produce three parameters which contribute significantly to the recognition of bedrock conductors in conductive environments. These are the inphase and quadrature difference channels (DFI and DFQ, which are available only on systems with common frequencies on orthogonal coil pairs), and the resistivity and depth channels (RES and DP) for each coplanar frequency.

The EM difference channels (DFI and DFQ) eliminate most of the responses from conductive ground, leaving responses from bedrock conductors, cultural features (e.g., telephone lines, fences, etc.) and edge effects. Edge effects often occur near the perimeter of broad conductive zones. This can be a source of geologic noise. While edge effects yield anomalies on the EM difference channels, they do not produce resistivity anomalies. Consequently, the resistivity channel aids in eliminating anomalies due to edge effects. On the other hand, resistivity anomalies will coincide with the most highly conductive sections of conductive ground, and this is another source of geologic noise. The recognition of a bedrock conductor in a conductive environment therefore is based on the anomalous responses of the two difference channels (DFI and DFQ) and the resistivity channels (RES). The most favourable situation is where anomalies coincide on all channels.

The DP channels, which give the apparent depth to the conductive material, also help to determine whether a conductive response arises from surficial material or from a conductive zone in the bedrock. When these channels ride above the zero level on the digital profiles (i.e., depth is negative), it implies that the EM and resistivity profiles are responding primarily to a conductive upper layer, i.e., conductive overburden. If the DP channels are below the zero level, it indicates that a resistive upper layer exists, and this usually implies the existence of a bedrock conductor. The case where the low frequency DP channel is below the zero level and the high frequency DP channel is above zero suggests that a bedrock conductor lies beneath conductive cover.

Reduction of Geologic Noise

Geologic noise refers to unwanted geophysical responses. For purposes of airborne EM surveying, geologic noise refers to EM responses caused by conductive overburden and magnetic permeability. It was mentioned previously that the EM difference channels (i.e., channel DFI for inphase and DFQ for quadrature) tend to eliminate the response of conductive overburden.

Magnetite produces a form of geological noise on the inphase channels of all EM systems. Rocks containing even less than 1% magnetite can yield negative inphase anomalies caused by magnetic permeability. When magnetite is widely distributed throughout a survey area, the inphase EM channels may continuously rise and fall, reflecting variations in the magnetite percentage, flying height, and overburden thickness. This can lead to difficulties in recognizing deeply buried bedrock conductors, particularly if conductive overburden also exists. However, the response of broadly distributed magnetite generally vanishes on the inphase difference channel DFI. This feature can be a significant aid in the recognition of conductors which occur in rocks containing accessory magnetite.

EM Magnetite Mapping

The information content of DIGHEM data consists of a combination of conductive eddy current responses and magnetic permeability responses. The secondary field resulting from conductive eddy current flow is frequency-dependent and consists of both inphase and quadrature components, which are positive in sign. On the other hand, the secondary field resulting from magnetic permeability is independent of frequency and consists of only an inphase component which is negative in sign. When magnetic permeability manifests itself by decreasing the measured amount of positive inphase, its presence may be difficult to recognize. However, when it manifests itself by yielding a negative inphase anomaly (e.g., in the absence of eddy current flow), its presence is assured. In this latter case, the negative component can be used to estimate the percent magnetite content.

A magnetite mapping technique was developed for the coplanar coil-pair of DIGHEM. The method can be complementary to magnetometer mapping in certain cases. Compared to magnetometry, it is far less sensitive but is more able to resolve closely spaced magnetite zones, as well as providing an estimate of the amount of magnetite in the rock. The method is sensitive to ¼ % magnetite by weight when the EM sensor is at a height of 30 m above a magnetitic half space. It can individually resolve steep dipping narrow magnetite-rich bands which are separated by 60 m. Unlike magnetometry, the EM magnetite method is unaffected by remanent magnetism or magnetic latitude.

The EM magnetite mapping technique provides estimates of magnetite content which are usually correct within a factor of 2 when the magnetite is fairly uniformly

distributed. EM magnetite maps can be generated when magnetic permeability is evident as negative inphase responses on the data profiles.

Like magnetometry, the EM magnetite method maps only bedrock features, provided that the overburden is characterized by a general lack of magnetite. This contrasts with resistivity mapping which portrays the combined effect of bedrock and overburden.

Recognition of Culture

Cultural responses include all EM anomalies caused by man-made metallic objects. Such anomalies may be caused by inductive coupling or current gathering. The concern of the interpreter is to recognize when an EM response is due to culture. Points of consideration used by the interpreter, when coaxial and coplanar coil-pairs are operated at a common frequency, are as follows:

1. Channels CXP and CPP monitor 60 Hz radiation. An anomaly on these channels shows that the conductor is radiating power. Such an indication is normally a guarantee that the conductor is cultural. However, care must be taken to ensure that the conductor is not a geologic body which strikes across a power line, carrying leakage currents.
2. A flight which crosses a "line" (e.g., fence, telephone line, etc.) yields a centre-peaked coaxial anomaly and an m-shaped coplanar anomaly.² When the flight crosses the cultural line at a high angle of intersection, the amplitude ratio of coaxial/coplanar response is 4. Such an EM anomaly can only be caused by a line. The geologic body which yields anomalies most closely resembling a line is the vertically dipping thin dyke. Such a body, however, yields an amplitude ratio of 2 rather than 4. Consequently, an m-shaped coplanar anomaly with a CXI/CPI amplitude ratio of 4 is virtually a guarantee that the source is a cultural line.
3. A flight which crosses a sphere or horizontal disk yields centre-peaked coaxial and coplanar anomalies with a CXI/CPI amplitude ratio (i.e., coaxial/coplanar) of 1/4. In the absence of geologic bodies of this geometry, the most likely conductor is a metal roof or small fenced yard.³ Anomalies of this type are virtually certain to be cultural if they occur in an area of culture.

² See Figure B-1 presented earlier.

³ It is a characteristic of EM that geometrically similar anomalies are obtained from: (1) a planar conductor, and (2) a wire which forms a loop having dimensions identical to the perimeter of the equivalent planar conductor.

4. A flight which crosses a horizontal rectangular body or wide ribbon yields an m-shaped coaxial anomaly and a centre-peaked coplanar anomaly. In the absence of geologic bodies of this geometry, the most likely conductor is a large fenced area.⁵ Anomalies of this type are virtually certain to be cultural if they occur in an area of culture.
5. EM anomalies which coincide with culture, as seen on the camera film or video display, are usually caused by culture. However, care is taken with such coincidences because a geologic conductor could occur beneath a fence, for example. In this example, the fence would be expected to yield an m-shaped coplanar anomaly as in case #2 above. If, instead, a centre-peaked coplanar anomaly occurred, there would be concern that a thick geologic conductor coincided with the cultural line.
6. The above description of anomaly shapes is valid when the culture is not conductively coupled to the environment. In this case, the anomalies arise from inductive coupling to the EM transmitter. However, when the environment is quite conductive (e.g., less than 100 ohm-m at 900 Hz), the cultural conductor may be conductively coupled to the environment. In this latter case, the anomaly shapes tend to be governed by current gathering. Current gathering can completely distort the anomaly shapes, thereby complicating the identification of cultural anomalies. In such circumstances, the interpreter can only rely on the radiation channels and on the camera film or video records.

Magnetics

Total field magnetics provides information on the magnetic properties of the earth materials in the survey area. The information can be used to locate magnetic bodies of direct interest for exploration, and for structural and lithological mapping.

The total field magnetic response reflects the abundance of magnetic material, in the source. Magnetite is the most common magnetic mineral. Other minerals such as ilmenite, pyrrhotite, franklinite, chromite, hematite, arsenopyrite, limonite and pyrite are also magnetic, but to a lesser extent than magnetite on average.

In some geological environments, an EM anomaly with magnetic correlation has a greater likelihood of being produced by sulphides than one that is non-magnetic. However,

sulphide ore bodies may be non-magnetic (e.g., the Kidd Creek deposit near Timmins, Canada) as well as magnetic (e.g., the Mattabi deposit near Sturgeon Lake, Canada).

Iron ore deposits will be anomalously magnetic in comparison to surrounding rock due to the concentration of iron minerals such as magnetite, ilmenite and hematite.

Changes in magnetic susceptibility often allow rock units to be differentiated based on the total field magnetic response. Geophysical classifications may differ from geological classifications if various magnetite levels exist within one general geological classification. Geometric considerations of the source such as shape, dip and depth, inclination of the earth's field and remanent magnetization will complicate such an analysis.

In general, mafic lithologies contain more magnetite and are therefore more magnetic than many sediments which tend to be weakly magnetic. Metamorphism and alteration can also increase or decrease the magnetization of a rock unit.

Textural differences on a total field magnetic contour, colour or shadow map due to the frequency of activity of the magnetic parameter resulting from inhomogeneities in the distribution of magnetite within the rock, may define certain lithologies. For example, near surface volcanics may display highly complex contour patterns with little line-to-line correlation.

Rock units may be differentiated based on the plan shapes of their total field magnetic responses. Mafic intrusive plugs can appear as isolated "bulls-eye" anomalies. Granitic intrusives appear as sub-circular zones, and may have contrasting rings due to contact metamorphism. Generally, granitic terrain will lack a pronounced strike direction, although granite gneiss may display strike.

Linear north-south units are theoretically not well-defined on total field magnetic maps in equatorial regions due to the low inclination of the earth's magnetic field. However, most stratigraphic units will have variations in composition along strike which will cause the units to appear as a series of alternating magnetic highs and lows.

Faults and shear zones may be characterized by alteration that causes destruction of magnetite (e.g., weathering) which produces a contrast with surrounding rock. Structural breaks may be filled by magnetite-rich, fracture filling material as is the case with diabase dykes, or by non-magnetic felsic material.

Faulting can also be identified by patterns in the magnetic total field contours or colours. Faults and dykes tend to appear as lineaments and often have strike lengths of several kilometres. Offsets in narrow, magnetic, stratigraphic trends also delineate

structure. Sharp contrasts in magnetic lithologies may arise due to large displacements along strike-slip or dip-slip faults.

APPENDIX C
EM ANOMALY LISTS

Easting	UTM		Fid	Flt	Vert. Dike			CXI1	CXQ1	CPI1	CPQ1	CPI2	CPQ2	Inter Let	p SYM
	Northring				MHOS	Depth	Mag								
LINE 1	10														
520682.5	6827565	1341.9	45	0.3	0	0	0	2.2	5.4	34.2	123.3	0.9	18.6	A	S?
520810.3	6827221	1352.8	45	0.1	0	0	0	0	7.3	15.6	29.3	0.4	4.9	B	S?
521017.8	6826653	1369.7	45	0.4	0	1	6.3	20	23.1	87.1	0.7	13.9	C	S?	
521134.4	6826358	1379.3	45	1.5	0	0	10.7	9.9	26.1	16.4	2.3	5.4	D	S?	
521443	6825573	1407.8	45	0.7	0	0	10.6	21.1	80.2	157.1	3.3	30	E	S?	
521845.6	6824546	1445.9	45	0.1	0	0	0	23	49.1	109	1.9	20.3	F	S	
521973.1	6824154	1467.1	45	1.4	1.6	0	4.2	3.1	29.8	90.7	2.3	12.6	G	S	
522105.2	6823937	1480	45	0.6	0	1	7	12.9	0	55.3	1	7.5	H	S?	
522208.5	6823632	1492.5	45	1.4	0	0	9.7	9.1	18.5	22.1	3.5	5.5	I	S	
522337.6	6823260	1505.5	45	2.5	0	0	22.3	16.4	76.9	88.4	4.3	25.6	J	B?	
522428	6823021	1513.8	45	1	0	1	8.5	10.2	24.4	67.6	1.4	7.5	K	B?	
522590.4	6822544	1529.8	45	1.4	0	0	16.6	19	42.3	52	6.7	16.2	L	B	
522618.3	6822478	1532.1	45	999	0	0	16.6	0	13	52	1.4	4.1	M	B	
522733.1	6822220	1541.1	45	1	0	0	9.2	11.8	17.3	14.5	5.2	7.1	N	B	
522812	6822034	1547.4	45	1	0	0	16.3	24.6	34.1	57.7	4	12.1	O	B?	
522880.3	6821861	1553.2	45	999	0	0	18	0	75.5	94	9	27.3	P	B?	
522991.3	6821550	1563.5	45	0.3	0	0	3.3	10.2	19	42.4	2	7.8	Q	B?	
523215.2	6820982	1582	45	0.7	0	2	8.4	14.2	10.6	36.3	1	5.8	R	S?	
LINE 1	20														
520666.9	6828609	1968.2	45	0.8	0	0	7.9	12.1	39.1	46.6	2	11.9	A	S	
521170.8	6827371	1927.1	45	0.3	0	0	4.3	18.9	38.2	136.7	0.3	21.1	B	S	
521313.3	6826999	1916	45	0.3	0	0	3.4	11.8	46.1	70.9	2.5	15.2	C	S	
521520.2	6826423	1896.7	45	0.6	0	0	5.8	10.4	14.5	30.7	2.1	5.3	D	S	
521773.6	6825823	1874.6	45	0.6	0	0	11.9	30.1	13.8	80.2	1.2	11.9	E	S?	
522074	6824985	1840	45	0.6	0	0	6.3	13	18.1	48.1	0.6	8.4	F	S	
522276.3	6824484	1806.9	45	0.9	0	8	11.9	19.2	39.4	71.6	1.8	12.8	G	S?	
522521.8	6823904	1788	45	215	338.3	0	0	0	62.8	103.7	2.6	22.9	H	S?	
522587	6823748	1783.1	45	2.9	0	0	29.6	20.9	3.5	67.4	2.6	1.6	I	B?	
522653.3	6823570	1777.8	45	1.9	0	0	16.8	14.1	143.4	121	13.9	48.4	J	B?	
522690.3	6823467	1774.9	45	999	0	0	36.7	0	143.4	4.2	13.9	48.4	K	B?	
522918.1	6822873	1757.7	45	1.6	0	0	11.9	10.9	98.4	62.5	20.6	34.7	L	B?	
522967.1	6822752	1754.1	45	0.1	0	0	0.8	14.2	98.4	62.5	20.6	34.7	M	B?	
523118.1	6822396	1743	45	1.5	0	0	12	11.4	11.9	27.1	4.8	4.1	N	S?	
523586.6	6821098	1702.1	45	0.4	0	0	4.4	10.7	26.3	48.7	1.3	10.2	O	S?	

523633.1	6820967	1698.2	45	0.9	0	0	6.4	8.4	20.7	36.3	1.5	7.3 P	S?
LINE 1	30												
520621.4	6829926	2041.3	45	0.6	0	0	9.3	22.3	71.9	170.1	4.5	32.9 A	S
520728.5	6829596	2055.6	45	0.5	0	0	9.7	24.8	52	150.2	2.7	22.8 B	S
521117.5	6828594	2095.4	45	0.5	0	0	8.9	22.9	43.8	106.8	3.5	17.8 C	S?
522055	6826203	2175.4	45	0.8	0	0	6.3	9.1	18	48.7	1.6	8.9 D	S?
522433.8	6825255	2218.2	45	1.2	0	0	12.4	14.6	31.3	80.8	1.2	15 E	S
522566.2	6824882	2231.4	45	0.5	0	8	7.6	18.9	34	87.6	1.2	13.3 F	S
522904.9	6824040	2260.4	45	1.1	0	0	24	37.8	92.4	94.9	0	0 G	B?
522975.9	6823854	2266.7	45	2.3	0	0	32.5	28.1	101.4	77.6	0	33.9 H	B?
523036.3	6823710	2271.7	45	999	0	0	14.9	0	85.1	80.8	30.1	37.4 I	B?
523094.9	6823549	2277.3	45	0.4	36.4	0	0.6	0.8	3.2	0	0	1.1 J	B?
523183.3	6823299	2286.1	45	0.7	0	8	9.7	18.8	22.4	107.9	0	10.6 K	S?
523258.5	6823086	2293.3	45	0.7	0	4	5.3	8.4	43.3	45	5.3	15.8 L	S?
523486.6	6822510	2312.6	45	1.2	0	0	15.3	19.8	36.5	50.7	2.1	10.7 M	B?
523706.9	6821982	2330.8	45	0.3	0	0	3.5	13.7	30.2	93	1.2	13.4 N	S?
524324.1	6820324	2384.9	45	0.5	0	0	10.7	30	32.3	66.9	3.8	15 O	S
524391.2	6820160	2390.1	45	0.3	0	0	2.7	8.3	38.4	54.4	4.7	15.2 P	S?
524481.7	6819939	2397	45	0.6	0	0	10.1	24.3	48.4	91.3	4.3	18.4 Q	S
LINE 1	40												
520922.9	6830241	9994.5	43	0.1	4.7	0	0.2	10.8	22.4	52.5	2.8	14.5 A	S
521244.8	6829496	9970	43	0.6	0	0	8.9	18.9	27.6	64.4	0.5	12 B	S?
521790.1	6828053	9921.1	43	0.4	0	0	9	29.5	50.8	114.1	2.7	25.2 C	S
522244.2	6826872	9880	43	0.1	12.7	0	0	12.4	4.9	8.5	1.6	2.1 D	S
522305.4	6826630	9869.4	43	0.1	12.7	0	0	20.3	27.1	77.3	1.1	15.3 E	S
522469.4	6826330	9856.9	43	0.3	0	0	5.7	28.2	43.4	152.9	1.1	26.7 F	S?
522676	6825744	9836.7	43	0.4	0	0	6.2	16.6	31.6	69.8	1.1	14.3 G	S
523056	6824727	9800.8	43	0.7	10.5	0	5.4	8.6	35.5	49.8	6.2	17.6 H	S
523313.5	6824135	9780.8	43	0.9	0	0	14.6	23.4	56.9	62.1	10.4	25.2 I	S
523390.4	6823944	9774.7	43	1.1	0	0	17.1	24.4	22.5	51.3	3.5	11.7 J	S?
523609.3	6823401	9757.8	43	0.2	0	0	2.2	12.8	27.1	40.7	0.6	0.1 K	S?
523773.3	6822936	9743.9	43	0.4	0	3	5.1	13.5	55.6	106	1	24.3 L	S?
524675.6	6820575	9656.6	43	0.4	0	0	7.3	20.9	56.9	95.8	3.6	24.1 M	B?
524815.1	6820159	9641.2	43	0.6	0	0	10.6	23.8	42.9	72.4	4.1	20.1 N	B?
524990.9	6819737	9624	43	0.8	0	0	14.7	27.7	78.1	102.1	8.2	34.2 O	B?
LINE 1	50												
520769.9	6831806	9168.1	43	0.3	0	0	8.9	42.4	67.5	190.9	2.4	38.2 A	S?

521456.9	6829974	9234.3	43	0.1	0	1	0.5	20.2	41	98.6	0.9	21.2	B	S
521523.5	6829805	9239.9	43	0.9	0	0	9.4	13.2	11.8	1.3	1.6	2.6	C	S
521615.1	6829540	9248.7	43	0.5	0	0	6.8	17.3	50.3	93.9	2.1	20.5	D	S?
521776.9	6829111	9264.9	43	0.8	0	0	6.5	9.5	75.6	138.8	2.8	35.6	E	S
522137.7	6828350	9290.2	43	0.5	0	0	5.2	10.3	33.7	54.1	3.2	14.4	F	S
522549.4	6827152	9332.6	43	0.7	0	0	6.1	10	40.6	87	0.1	20.3	G	S
522828.2	6826447	9355.7	43	0.4	0	0	5.7	16.7	31.3	68.9	0.9	13.5	H	S?
523111.1	6825779	9376.4	43	9.7	0	0	64.3	22.1	191.4	60.5	22.8	76.4	I	B?
523144.1	6825692	9378.9	43	6.7	0	10	48.2	20.1	191.4	39.4	22.8	76.4	J	B?
523248.3	6825421	9387.1	43	1.6	0	5	39.3	49.3	63.1	106.4	2.2	21.4	K	B?
523758.4	6824127	9427	43	0.1	0	0	0.5	11.9	14.1	71	0.6	10.6	L	S
524022.4	6823333	9451.9	43	0.4	0	0	3	7.4	21.6	25.5	1.6	8.2	M	S
524858.9	6821256	9517.1	43	0.9	0	0	8.8	11.8	51.3	71.2	7	22.1	N	S
525007.2	6820906	9528.1	43	0.7	0	0	10	20.3	59.8	89.3	7.3	26.1	O	B?
525146.8	6820518	9539.8	43	1.4	0	0	14.6	16	66.7	83.4	7.9	29.3	P	B?
525256.9	6820220	9548.9	43	0.4	0	1	5.8	15.4	35.9	31.3	4.3	12.4	Q	B?
525398.9	6819897	9558.8	43	0.7	0	0	7.9	13	48.2	64.9	3.6	19	R	B?
LINE 1	60													
520726.6	6832963	9071.5	43	0.6	0	0	9	20.9	38.5	96.2	2.1	19.4	A	S
520889.4	6832511	9053.8	43	0.5	0	0	4.7	11	40.8	51.8	2.1	14.5	B	S
521287.7	6831516	9022.1	43	0.6	0	0	7.5	15.1	64.8	151.4	2.9	29.8	C	S
521697.2	6830435	8986	43	0.7	0	0	8.8	14.7	28.4	55.2	0	9.7	D	S
522151.2	6829377	8951.9	43	0.5	0	0	8.2	22.6	59.2	95.6	0	26	E	S
522511	6828404	8919	43	0.4	0	1	4.7	13.3	65.7	97.2	4.1	26.7	F	S
522762.4	6827674	8890.4	43	0.7	12.4	1	4	5.7	25	66.6	1.6	12.7	G	S
522966.3	6827149	8871.8	43	0.4	0	0	4.3	12.5	30.7	100.7	1.3	16.5	H	S
523418.3	6826042	8826.8	43	2.1	0	0	31.7	30.2	0	96.4	0	0.1	I	B?
523530.9	6825749	8816.2	43	999	0	10	167.4	0	912.3	234.8	603.9	571 7	J	B?
523555.8	6825694	8814.2	43	0.1	0	10	2	99.3	912.3	234.8	603.9	571 7	K	B?
524953.7	6822073	8703.8	43	0.6	0	0	9.8	24.2	37.6	92.1	1.5	18.9	L	S
525109.6	6821690	8690.7	43	0.1	5	2	0	16	30.2	106.1	2.7	18.2	M	S?
525270.4	6821227	8674	43	0.8	0	3	18.4	38.4	91.3	177.8	3.3	43.2	N	B?
525355.7	6820983	8664.4	43	0.3	0	0	7.3	29.3	47.9	99.2	7	19.9	O	B?
525664.4	6820289	8639.3	43	1.1	0	0	14.5	18.9	16	47.2	3.6	8.8	P	B?
525744.4	6820067	8632	43	1.8	0	0	14.2	12.3	58.2	61.6	7.7	20.2	Q	B?
525900.1	6819677	8618.3	43	1	0	0	14.9	22.1	53.3	48	4.8	13.9	R	B?
LINE 1	70													

520960	6833533	7664.4	43	0.8	0.7	0	9.9	16.7	34.2	41.7	0.6	18.5 A	S?
521216.6	6832863	7686.5	43	0.9	5.7	0	9	13.2	115.1	175.8	5.7	49.8 B	S
521370	6832493	7698.9	43	0.5	0	0	7	18.8	48	91.4	1.4	19.1 C	S?
522022.7	6830806	7757.1	43	0.5	0	1	7	18.1	12.4	37.6	2	8.7 D	S?
522767.2	6828826	7821.8	43	0.3	0	0	5.1	17.6	30.2	85.3	1.8	18.6 E	B?
523077.3	6828098	7843.7	43	0.7	9.3	0	6	10	33.6	63.4	1.5	15.7 F	S
523376.7	6827429	7866.8	43	0.6	1.5	0	6.3	13.1	18.5	53.1	2.1	10.6 G	S
523833	6826114	7914.3	43	2.1	0	0	27.8	25.2	83.3	76	3.7	28.1 H	B?
LINE 1	75												
523725.1	6826333	10098 6 52		0.5	0	0	3.8	6.9	3.5	52.4	0	0 A	B?
523793.6	6826128	10091 4 52		4.9	0	2	44.6	23.2	75.8	40	4.9	14.9 B	D
523850.3	6825997	10087 3 52		0.6	0	11	10.1	23.8	5.9	130.8	7.4	0 C	D
523895.9	6825902	10084 3 52		1.8	0	0	33.7	36.2	98.4	130.8	0	29.1 D	S?
524218.8	6825087	10060 4 52		0.6	0	2	6.2	10.6	8.8	28.5	1.5	3.9 E	B?
524642.3	6823971	10028 2 52		0.3	0	1	2.4	8.4	19.4	62.3	1.2	8.8 F	S?
525335.1	6822185	9976 52		1	0	0	10.2	13.7	32.5	77.9	1.7	11.1 G	S
525734.5	6821146	9946.5 52		0.8	0	2	6.7	9.3	59	82.8	7.8	18.5 H	B?
525838.8	6820903	9938.7 52		1.7	0	2	20.4	20.4	59.6	97.2	2.5	18.5 I	B?
525928.8	6820680	9931 52		0.6	0	1	11.8	29.9	57.4	119.3	4.4	19.9 J	B?
526097.5	6820211	9917 52		1.2	2.1	0	7	7.1	42.7	38	5.2	13.8 K	B?
526242.1	6819850	9906.7 52		1.9	0	2	18.7	16.8	80.3	69.8	9.6	23.8 L	B?
526267.9	6819788	9904.9 52		2.3	0	0	19.4	14.8	80.3	69.8	9.6	23.8 M	B?
LINE 1	80												
521101.8	6834272	7527.2	43	0.3	0	0	5.7	22.2	47.4	87.7	2.4	21.3 A	S
521499.7	6833237	7494.9	43	0.3	0	0	5	23.9	28.1	87.8	2.4	14.9 B	S?
521672.1	6832802	7480.8	43	1	17.7	6	6.9	8.1	28.3	46.3	1.6	14.8 C	S?
522190.4	6831469	7435.6	43	0.6	0	0	10.3	21.7	39	80.6	1.8	17.5 D	S
522422.5	6830912	7416.3	43	24.9	35.2	0	10.5	1.3	62.2	135.4	1.9	28.7 E	B?
522558.9	6830572	7405.1	43	0.6	0	0	7.1	15	36.2	87.9	2	17.9 F	S
523147.8	6829012	7349.6	43	0.3	0	1	6	25.9	54.8	154.1	1.9	29.5 G	S?
524228.5	6826207	7214.7	43	0.3	0	6	4.1	13.5	98.4	98.1	2	29.2 H	S?
524283.3	6826070	7210.2	43	0.4	0	7	6.9	20.5	98.4	98.1	3.2	29.2 I	S?
524765.3	6824797	7169.4	43	0.7	57.4	0	1.9	1.9	29.2	92	0.6	18.7 J	S?
525708.5	6822394	7092.4	43	0.2	0	2	2	8.3	29	71	4.5	14.4 K	B?
526039.3	6821531	7064.1	43	1.1	27	0	5.5	5.6	43	36.4	5.9	17.4 L	B
526241.3	6821021	7047.2	43	0.5	0	0	7.2	16.1	62.7	77.4	4.5	27.2 M	B
526453.5	6820459	7028.5	43	1.5	0	0	34.1	45.9	157.5	189.7	10.2	62.4 N	B?

526567.8	6820160	7018	43	0.6	0	0	10.6	23.2	135.5	208.6	5.9	59.2 O	B?
526734.2	6819757	7003.4	43	0.7	1.3	0	8.9	16.3	77.1	82.8	8.3	30.9 P	B?
LINE 1	90												
520582	6836727	6048.4	43	0.9	13.2	0	8.1	11.1	61.9	82.3	3.1	25.8 A	S?
520672.9	6836476	6056.2	43	1	0	1	17.3	26.6	74.1	107.7	5	28.7 B	S?
521424	6834556	6121.1	43	0.5	12.4	0	4	8.4	61.4	89.1	2.6	25 C	S
522190.8	6832478	6185	43	0.8	0	0	12.3	21.8	45.4	96.3	2.3	20.9 D	S
522497.8	6831810	6208	43	0.7	24.9	2	4.5	6.2	38.7	82.3	2.2	16 E	S?
523050.2	6830337	6260.9	43	0.5	0	0	9	23.6	111.4	159.6	6.8	44.8 F	S
523183.3	6829982	6276.2	43	0.7	9.8	0	6.8	11.8	41.2	76.3	0.2	16 G	S?
523347.4	6829546	6294.7	43	0.3	0	0	4.6	18.3	64.3	155.4	1.3	33 H	S?
523406.9	6829381	6300.3	43	3.4	52.5	0	5.1	2	33.3	0	1.7	18.6 I	S?
523771.8	6828533	6331.3	43	0.4	0	0	5.4	15.6	28.6	36.7	2.2	12 J	S?
524040.6	6827846	6358.8	43	0.3	0	0	3.9	15.9	23.7	82.5	1	15 K	S?
524580.5	6826403	6415.3	43	0.5	3.5	2	5.5	12.9	40.8	99.3	1.5	18.1 L	S?
524667.9	6826144	6424.1	43	0.5	0	6	13.2	38.7	54	196.3	0.5	34.8 M	S?
526085.7	6822506	6546.7	43	0.4	0	0	9.7	30.8	49.3	40.2	6.4	17.5 N	S
526393.1	6821700	6572.4	43	0.4	0	0	5.6	15.9	49.4	109.3	2.9	25.2 O	B?
526576.7	6821237	6587.2	43	0.1	0	0	1.7	10.4	43.4	84.7	3	21.6 P	B?
526749.9	6820795	6601.8	43	1	12.5	0	9.6	12	18.8	25	3.9	10.2 Q	B?
526853.8	6820550	6611	43	1.1	11.1	0	11	13.2	14	44.8	2.4	5.6 R	D
526981.6	6820226	6622.6	43	1.1	26.5	0	6	6.3	62.7	61.3	7.2	25.3 S	B?
LINE 1	100												
520565	6837844	5986.7	43	0.9	5.5	0	15.3	24.9	136.7	255.5	8.9	74.2 A	S
520892.2	6837040	5961.8	43	1.2	17.8	1	11.2	13.1	50	40.6	2.3	15.7 B	B?
521015.9	6836695	5951.8	43	934.8	57.8	1	8.2	0	58	40.2	0	0 C	S?
521508.6	6835418	5914.8	43	0.1	25.3	0	0	9.5	21	39.6	0.4	8.6 D	S?
521793.9	6834691	5892.7	43	0.4	4.6	0	6	16	54.5	103.7	2.9	25 E	S
522204.4	6833674	5860.4	43	1.5	28.5	5	9.3	8	5.5	13	0.7	3.1 F	S?
522426.1	6833097	5842.3	43	0.1	25.3	6	0	7.5	57.5	68.7	3.6	24.6 G	S?
522973.9	6831670	5791.7	43	0.5	25.3	0	3.4	6.7	0	6.8	1.2	2.6 H	S?
523490.3	6830338	5737.4	43	1.5	18.4	0	13.2	13.2	56.7	80.8	0	21.7 I	B?
523693.5	6829831	5719.5	43	0.5	0	0	8.8	23.8	49.9	105.8	3.4	24.9 J	S?
523989.4	6829010	5692.5	43	0.3	0	0	5.1	24.2	60.1	160.7	1.8	30.4 K	S
524226.9	6828378	5670.2	43	0.3	1.7	0	3.4	13.1	8.4	47.9	0.8	9.7 L	S?
525084.8	6826196	5580.7	43	0.2	0	4	4.2	26.4	16.2	86.6	0.9	14 M	S?
525425.4	6825273	5551.5	43	0.6	18.1	0	5.8	10.4	25.2	61.9	1.7	15.9 N	S

525967.1	6823948	5508.8	43	1.2	37	0	5.7	5.4	23.2	54.7	0.9	12.8	O	S
526395.8	6822830	5471.5	43	1.4	22.6	2	11	10.6	25.2	25.4	0	9.1	P	B?
526547.8	6822450	5458.8	43	1.1	31	0	6.6	6.9	31.5	19	7.5	15.5	Q	B?
526736.6	6821909	5441	43	0.5	0	0	9.9	26.9	33.4	82.8	1.7	15.4	R	B?
526835.5	6821619	5433	43	0.6	0	0	12.7	33.8	61.8	136.3	4.8	31.6	S	B?
526940.4	6821324	5422.6	43	1.6	5.2	1	26.1	29.8	66.1	95.6	7.7	27.5	T	B?
527109.2	6820974	5410.4	43	0.8	0	0	20	44.6	116.9	170.3	9.3	54.1	U	B?
527139.6	6820911	5408.1	43	21	32.7	1	16.6	2.5	116.9	170.3	9.3	54.1	V	B?
527249.3	6820666	5399	43	1.3	10.8	0	16.1	19.7	0.5	31.2	0	0.6	W	B?
527335.9	6820461	5392.1	43	1.2	5.4	0	19.5	27.2	59.8	59.7	12.4	23.8	X	B?
527494.9	6820049	5379.3	43	0.5	4.3	0	6.5	16.9	26.6	58.1	2.9	14	Y	B?
527633.5	6819653	5367.1	43	0.8	8.3	0	12.1	20.1	65.1	65.1	7.2	22.4	Z	B?
LINE 1	110													
520651.4	6838790	3763	43	0.3	0	0	5.1	22.4	126.9	137.8	10.6	52.7	A	S?
520964.8	6837992	3789.6	43	1.7	0	0	18.8	18.2	78.1	66.7	9.1	26.3	B	S?
521024.3	6837838	3794.5	43	0.5	0	0	7.2	17.5	55	149.1	5.9	32	C	S?
522330.2	6834347	3903.5	43	0.5	0	0	5	11.4	17.2	46.5	1.7	7.6	D	B?
522456.2	6834005	3914.2	43	0.8	1.4	8	8.6	13.5	0.5	19.3	1.7	3.3	E	B?
522574.2	6833679	3924.1	43	0.7	5.4	0	6.2	10.4	51.9	61.9	4.7	21.1	F	S?
522718.6	6833348	3934.4	43	0.4	0	0	5.8	15.1	0	60.3	4.5	0	G	S
522899.9	6832920	3947.5	43	0.4	0	0	4.9	15.4	24.1	57.5	1.2	12.1	H	B?
523127.1	6832322	3966.4	43	0.8	0	0	13.2	23.2	46.6	80.6	2.2	17.6	I	S
523550.8	6831293	4017.9	43	0.4	2.7	0	3.2	8	25.7	29.5	1.7	8.4	J	S?
523845.6	6830498	4045.9	43	0.1	7.1	1	0.1	13.1	74.4	108.8	5.2	29.9	K	S?
524142.1	6829757	4076.9	43	0.4	0	0	4.9	15.2	13.2	51	0	6.7	L	S
524686	6828363	4125.5	43	0.4	0	0	6.5	17.8	23.5	40.6	1.1	9.3	M	S?
525346.8	6826701	4196.2	43	0.5	0	0	5.9	12.7	38.2	73.8	1.3	16.2	N	S?
LINE 1	116													
525141.4	6827107	9543.1	52	0.4	0	0	6.1	21.2	23.5	78.6	0.7	13	A	S?
525314.1	6826691	9560.8	52	0.8	6.8	0	9.7	15.8	49.2	93.2	2	15.6	B	S?
525409.6	6826440	9569.2	52	0.6	0	4	12.1	27.3	11.9	53.2	1	9.9	C	S?
526439.6	6823820	9665.3	52	0.6	0	3	10.2	21.1	64.6	158.5	3.3	28.5	D	B?
526552.3	6823552	9675.9	52	0.7	2.3	0	9.8	19	30.1	72.5	2.9	12.8	E	B?
526783.2	6822905	9698.8	52	1.5	5.5	0	18.5	20.4	0	36.1	0	0	F	B
526937.8	6822522	9712.9	52	1.3	0	0	29	42.1	90.6	173	12.9	34.8	G	B
527081.6	6822128	9726.6	52	0.5	0	0	7.8	19.9	69.1	116.6	7.1	24	H	B
527286.2	6821618	9744.3	52	0.8	0	0	18.7	39.6	87.6	160.2	7.2	31.1	I	B?

527311.9	6821553	9746.6	52	1.3	0	0	26.8	38.1	87.6	160.2	7.2	31.1 J	B?
527504.4	6821063	9763.6	52	1.6	4.8	1	20.3	21.5	83.2	77.1	8.4	23.5 K	B?
527678.9	6820608	9780.9	52	0.9	1.4	0	14.6	23.1	72.6	100.9	5.4	21.3 L	B?
528002.1	6819729	9812.1	52	1.4	11.1	7	14.1	14.6	23.6	53.8	1.1	8.2 M	B?
LINE 1	120												
524162.4	6830795	3380.9	43	0.7	5.8	0	10.9	20.6	52.2	65.7	4.3	19.8 A	S?
524269.3	6830499	3371.7	43	0.5	0.5	0	7.2	19.8	49.8	106	1.2	22 B	S
524398.3	6830187	3361.7	43	1.1	6.1	0	16.9	24	29.1	53.9	2.1	13 C	D
525106.6	6828333	3299.3	43	0.5	12.7	0	5	10.9	10	18	0.9	4.6 D	B?
525401.4	6827559	3266.8	43	0.7	31.6	0	4.3	5.9	7.7	39.8	1.1	8.6 E	B?
525551.1	6827167	3242.1	43	0.4	3.9	0	4.8	14.1	9	70.7	0.7	9.3 F	S?
525684.5	6826862	3229	43	0.8	8.3	0	11.5	18.9	51.5	86.6	0.9	19.1 G	S?
526235.4	6825433	3182.9	43	0.1	0	0	1.9	15.5	26.3	89.1	2	15.6 H	S?
526595.1	6824444	3150.1	43	0.3	6.6	0	3.3	10.5	9.7	33	1.8	5 I	B?
527163.3	6823089	3103.9	43	0.8	1.9	0	14	27.1	50.6	86.6	0	23.3 J	S?
527513.8	6822179	3071.4	43	0.7	0	0	14.5	31.9	77	120.9	9.2	34.6 K	S?
527561.4	6822064	3066.9	43	1.6	7.7	0	21.5	23.6	8.6	35.8	9.2	5.4 L	S?
527794.6	6821486	3048.2	43	1.7	23.2	0	11.5	9.9	56.5	77.1	0.8	23.5 M	D
527911.7	6821155	3037.5	43	1.1	22.8	0	8.6	9.7	30.2	45.8	3.3	10.5 N	D
528361.4	6819995	2998.3	43	0.9	1.6	0	16.8	29.6	0	45.8	0	0 O	B?
LINE 1	126												
521202	6838339	9120.8	52	1	13.1	1	9.6	11.9	49.3	53.6	10.1	17.7 A	H
521456.6	6837755	9141.4	52	1.3	1.9	0	19.3	23.8	95.3	107.7	10.3	26.6 B	S
521600.7	6837382	9154.7	52	1.6	10.1	0	15.3	15	63.7	70.5	5.3	17.4 C	S?
522273.1	6835705	9210	52	1.3	12.9	0	11.8	12.6	51	66.5	3.8	17.1 D	S?
522852.7	6834171	9261.7	52	0.7	5.2	0	8.9	15.9	22.6	64.2	1.8	10.9 E	S?
523552.1	6832350	9321	52	0.5	0	2	6.7	17.5	16.1	50.9	1.1	7.7 F	S?
LINE 1	130												
521045.3	6839947	1998.3	43	0.4	1.4	0	4.3	12.2	61.4	89	6.6	19 A	B?
521420.9	6839040	2028.2	43	0.4	0.7	0	4.8	13.2	47.9	71.7	0.6	21.9 B	S?
521548.3	6838737	2037.7	43	2.3	10.7	0	19.4	14.7	28	47.7	3	8.8 C	B?
521646.7	6838469	2045.8	43	3.6	34.7	0	9.2	4.1	56.8	94.5	10.7	19.2 D	D
521953.2	6837574	2072.8	43	0.9	0	0	15.2	25.3	77.5	115.4	6.3	32.7 E	S?
524420.3	6831275	2272.5	43	0.7	5	0	8.3	15.5	21.3	36.1	2.1	8.7 F	S
524883.6	6830048	2318.8	43	0.7	6.1	0	8.4	15	31.6	61	2.2	14.5 G	B?
525093.4	6829416	2341.4	43	0.6	0	0	8.9	18.9	33	93.5	1.4	18.5 H	S?
525242.6	6829053	2353.3	43	0.1	0	0	0.4	16.9	0	47.6	2.6	3.8 I	D

525384.6	6828702	2366.9	43	0.8	6.3	0	9.3	15.5	10.7	36.4	1.2	5.5 J	B?
525720.3	6827821	2395	43	0.5	11.7	0	5.1	10	12.8	0	0.3	6.3 K	D
525771.5	6827688	2400.3	43	0.4	1.1	0	4.5	12.6	14.7	26.6	0.9	4.5 L	B?
525878.7	6827462	2412.3	43	0.4	0	0	6.3	19.9	0	67.6	1.6	11.7 M	S?
526096.3	6826899	2431.8	43	999	36.6	1	14	0	98.5	0	6.4	29.7 N	D
527483.6	6823370	2546.4	43	0.9	0	0	18.2	32	36.7	44.3	5.9	15.1 O	S
527690.1	6822827	2563.5	43	1	1.3	0	14.7	22.6	101.5	129.6	19.3	46.5 P	B?
527953.8	6822159	2584.5	43	0.7	0	3	18.8	44.2	7.2	67	0	16.7 Q	B?
528307.5	6821271	2613.6	43	0.8	0	0	12.7	23.7	42.9	69.2	3.9	19.5 R	D
528471.4	6820849	2626.4	43	270.1	45.8	0	9.3	0.2	63.3	0	9.1	25.8 S	B?
528676.8	6820308	2643	43	0.1	0	1	0.7	7.4	32.7	46.6	1.9	8.8 T	B?
528772.1	6820080	2650.2	43	1.4	31.9	0	6.3	5.3	33.4	34.1	5	12.9 U	B?
LINE 1	140												
521070.4	6841074	6987.5	42	0.9	0	2	11.6	18.4	25.7	53.4	4.2	10.8 A	B?
521321	6840380	6963.6	42	1	3.6	0	9.8	12.3	95.5	133.5	8.4	35.8 B	S
521449.1	6840037	6952	42	0.1	0	0	0.7	11	81	72	8.4	27.3 C	S
521788.4	6839204	6921.7	42	0.3	0	0	4.2	18.4	34	80.6	3.3	14 D	H
521945.3	6838763	6904.8	42	1	0	0	23.9	40.9	91.8	134.8	8.6	34.8 E	H
524098.2	6833103	6680.7	42	0.6	1.2	0	5.9	11.2	56.3	105.8	3.6	22.6 F	S
524657.7	6831669	6613.5	42	0.4	0	0	6.1	18.6	59.2	107.5	3.2	23.6 G	S
525181.3	6830306	6553.8	42	0.7	0	1	12.8	28.3	43.9	78.7	3.9	18.3 H	S?
526209.9	6827705	6452.7	42	0.6	0	1	10.3	25.4	48.9	130.4	1.3	21 I	S?
526353.6	6827407	6440.7	42	0.2	0	0	3.2	19.3	68.5	122.5	3	25.8 J	S?
526484.9	6827078	6427.7	42	1.8	2.3	0	16	14.2	36.3	31.4	1.5	9.7 K	S?
527818.1	6823667	6307.4	42	0.1	0	0	2.4	23.3	59.7	114.9	5.4	26.8 L	B?
527982.9	6823281	6293.1	42	1.3	0	1	23.7	31.2	88.6	98.1	0	32.5 M	B?
528174.8	6822761	6274.7	42	1.4	4.6	1	11.9	12.3	43.1	64.7	2.9	15.9 N	B?
528377.4	6822237	6255.7	42	0.8	0	1	27.6	62.6	130.9	247.1	14.1	55.9 O	B?
528486.8	6821957	6244.9	42	1.1	0	2	43.4	84	145	284.6	14.8	60.8 P	B?
528673.8	6821432	6226.8	42	0.7	0	0	19	47	78.4	177.4	4.9	35.3 Q	B?
528783.8	6821149	6216.9	42	0.9	0	0	17.4	29.9	46.8	103.9	6.2	20.6 R	D
528812.4	6821071	6214.1	42	0.6	0	4	8.5	17.4	63	103.9	8.7	20.6 S	D
529132	6820196	6184.9	42	0.8	0	1	10	16	54.5	94.8	9.3	24.1 T	D
529177.3	6820081	6180.9	42	0.9	0	0	18	30.2	54.5	94.8	9.3	25.1 U	B?
529315.2	6819717	6168.7	42	0.8	1.8	0	8.2	12.5	61.4	100.3	6.8	23.9 V	H
LINE 1	150												
520675.6	6843146	5368.9	42	0.4	16.2	0	3.9	8.6	71.8	61.1	6.9	22.7 A	S

520824.3	6842747	5380.9	42	0.8	4	0	12.4	22.8	39.4	122.1	2.5	17.5 B	B?
520940.4	6842444	5391.2	42	1	5.3	0	15.1	23.2	42.9	105	3.3	17.2 C	S?
521061.1	6842151	5400.7	42	0.8	24.9	0	5.6	7.8	0	0	0.3	2.9 D	D
521278	6841629	5417.7	42	0.9	1	0	16.2	29.1	94.7	188.9	6.2	39 E	S?
521620.2	6840745	5445.7	42	1.6	13	0	16.6	16.4	102	126.5	4.8	34.7 F	S
521733.1	6840456	5454.5	42	2	10.9	0	21.3	18.9	83	98.3	5.4	26.7 G	S
522295.3	6838930	5498.2	42	1.8	19.8	0	13.6	11.4	26.2	23.5	3.3	8.8 H	B?
522622.1	6838122	5526.4	42	1.1	4	0	18.7	26.6	64.7	93.2	5.8	23.7 I	B?
522697.3	6837954	5532.1	42	0.6	7.5	0	7.4	15.5	0	60.9	5.7	0 J	B?
522829.1	6837620	5542.8	42	0.9	22.5	0	7.2	9.1	0	13	1.1	0 K	B
524324.3	6833730	5689.3	42	0.8	23.4	0	6.4	8.5	32.4	60.2	3.1	11.9 L	B?
524754.6	6832655	5720.3	42	0.6	19.7	0	5.2	8.9	16.3	39.3	1.6	7.4 M	S?
524905.7	6832252	5731.9	42	0.4	15.1	0	3.9	8.7	14.8	60.6	1.9	8.9 N	S
525229.8	6831398	5759.6	42	0.5	11.5	0	5.7	11.9	38.3	64.5	2.2	14.4 O	S?
525503.4	6830656	5782.5	42	0.5	15.1	0	4.4	9.3	27.7	30.9	3.4	7.9 P	S?
525877.9	6829680	5815.8	42	1.5	17.2	0	13.1	12.9	0	0	1.9	0 Q	D
526368.6	6828369	5856.4	42	0.6	10.2	0	7.8	14.7	6	40.6	1.6	7.1 R	S?
526960.9	6826888	5901	42	0.6	9.2	3	7	14.2	24.5	68.6	0.2	10.5 S	S?
527052.5	6826635	5908.3	42	0.1	0	0	2.3	18.4	0	0	1.9	0 T	S?
527674.7	6824995	5957.1	42	0.3	0	1	6	23	33	102.7	4.4	18.9 U	B?
528266.2	6823382	6006.5	42	1.1	7.8	0	14.8	20.6	0	51.6	0	0 V	D
528703.4	6822327	6038.1	42	787.6	73.6	0	4.9	0	33.8	25.8	5.9	10.3 W	B?
529161.6	6821276	6069.9	42	0.8	13.6	0	8.2	13.2	65	100.5	7.3	25.4 X	B?
529310.6	6820838	6082.6	42	879.1	62.1	0	6.8	0	35.8	49.1	4.4	13.2 Y	B?
LINE 1	160												
521602.2	6841876	5118	42	1	19.8	0	9.7	12	19.8	22.1	2.1	7.9 A	S?
521737.3	6841501	5106	42	0.5	17.9	0	5.2	10.3	0	0	0.3	0 B	D
521783	6841383	5102.2	42	0.5	6.3	0	6.5	16.2	18	34.2	1.3	5 C	S?
521937.6	6840958	5088.7	42	0.8	4	0	14.8	27.3	91.8	135.3	5.8	33 D	D
521973.8	6840868	5085.7	42	0.9	3.4	0	16.3	29.1	54.8	91.3	3	21.8 E	D
522579.2	6839316	5034.1	42	0.8	17.9	0	8.4	12.4	28.5	26.4	2.1	7.8 F	H
522634	6839155	5028.6	42	1.3	4.1	0	24.8	32.6	65.4	106	4.7	23 G	B?
522752.3	6838834	5017.7	42	1.2	0.2	0	28.5	42.4	116.1	145.8	13.6	43.6 H	B?
523060.4	6837984	4990.7	42	2	22.9	0	13.9	11	34	5.5	3.8	7.3 I	S?
523314.5	6837393	4967.9	42	0.7	3.3	1	11.5	24.4	64.4	139.4	3.3	26.5 J	S?
524407.5	6834513	4836.5	42	1.3	35.2	0	6.8	6.1	61.4	115.2	4.9	23.9 K	S
524546.2	6834157	4823	42	0.4	1.5	1	6.1	18.6	25	69.7	2.5	13.8 L	S?

524965.1	6833135	4785	42	0.4	0.9	0	6.9	20.5	0	0	5.1	2.3 M	D
525391.7	6832027	4746.3	42	0.3	0.7	0	5.2	17.6	14.7	55.3	1.1	8.7 N	D
526732.6	6828514	4618.8	42	0.7	16.9	1	7.4	12.3	14.6	45.2	0.6	5.3 O	D
526874.7	6828149	4605.3	42	0.7	15.5	0	8.2	13.4	51.5	100.7	1.9	16.9 P	S
527179.1	6827437	4581.2	42	1.3	25.8	7	9.5	9.3	28.2	27.6	1.9	7.6 Q	D
527649.7	6826221	4540.3	42	0.5	33.6	0	2.8	5	23.7	41.4	2.4	10.1 R	H
527874.3	6825622	4521	42	0.4	13.9	0	3.2	8.8	20.8	39.5	1.7	8.6 S	H
528512.8	6823929	4465.4	42	0.5	0	0	8.9	26.1	54.1	142.2	6.1	25.7 T	S
528790.3	6823215	4440.4	42	0.7	2.1	0	11.9	26.1	71.2	76.1	14	29.4 U	B?
528873	6823018	4433.6	42	1	14	1	11.8	16.2	63.2	39.8	10.1	20.7 V	B?
529026.1	6822590	4419.1	42	2.1	34.3	0	9.2	6.3	67.8	79.8	8.1	26 W	D
529236.4	6822040	4399.1	42	1.6	17.7	0	14.7	14.3	31.3	67	4.4	11.3 X	B?
529359.3	6821733	4387.3	42	0.7	0	1	16.3	40.7	145.8	247.2	12.4	59.1 Y	B?
529529.4	6821316	4372.5	42	1.2	14.7	0	13	16.1	59.3	99.1	5.1	25.8 Z	B?
529902.7	6820405	4342.6	42	921.2	60	0	7.9	0	90.2	115.1	8.4	34.1 AA	B
LINE 1	170												
521250.1	6843915	3381.1	42	0.4	16	0	2.4	5	15.8	22.6	3.9	5.9 A	B
522011.6	6841911	3439.2	42	0.6	0	4	7.2	13.8	17.5	55.4	2.1	9.8 B	S?
522454.5	6840742	3470.8	42	0.4	0	0	4.7	14.4	42.8	64	2.2	14.2 C	S?
523436.4	6838152	3545.5	42	2.1	21.4	0	9.2	6.1	27.9	43.6	2.6	9.6 D	B?
524770.8	6834686	3655.6	42	1.6	8.3	0	12.7	11.6	39	47.6	3.3	13 E	S
524921.1	6834338	3669.4	42	0.4	0	0	7.2	25.1	91.6	175	6.1	35.9 F	D
525035.1	6834067	3679.1	42	0.6	2.4	0	6.8	12.3	25	0	3.3	7 G	D
525154.1	6833758	3691.7	42	0.6	0	0	8.4	16.9	27.2	61.9	0	0 H	D
526128.1	6831260	3779.9	42	0.3	8.4	0	1.6	4.9	13.2	39.2	0.9	6.7 I	S?
526320.8	6830763	3796.7	42	0.1	0	0	0.2	5.6	13.5	17.1	1.4	4.1 J	S?
527206.4	6828518	3873.5	42	0.1	0	0	0.2	16.1	86.4	124.4	3.6	25.6 K	S?
527830.8	6826842	3923.9	42	0.5	0	0	6.6	14.4	34	68.2	2.5	13.5 L	S
527980.8	6826475	3934.9	42	0.1	0	0	0.7	12.7	71	116	6.7	27.5 M	S?
528199.3	6825877	3952.2	42	1.4	14.7	0	8.8	8.3	20.5	28.6	3.4	7.3 N	B?
529276.3	6823072	4036.3	42	0.5	0	1	10.3	28.5	80	105.3	9.2	28.7 O	B?
529925.9	6821488	4081.8	42	0.9	6.1	1	8.9	11.8	73.2	97.2	9.4	26 P	D
530113.4	6821058	4095.3	42	0.8	4.1	0	8.5	12.6	65.8	86.5	5.7	23.6 Q	B?
530301.8	6820526	4111.4	42	764	66	0	4.5	0	60.6	87.7	5.6	23.4 R	D
LINE 1	180												
520708.8	6846218	3168.5	42	1.6	19	0	10.8	9.5	28.7	40.7	4.8	9.3 A	H
523479.8	6839185	2921.1	42	0.8	0	0	16	30	71.4	102.8	7.9	26.5 B	S?

523874.7	6838137	2884.5	42	0.5	0	0	6.5	16.4	39.3	110.7	1.5	19.2 C	S
525277.7	6834645	2747	42	0.5	0	0	9.9	25.5	69.3	151	3.8	27.6 D	S?
525664.8	6833659	2708.3	42	0.4	0	0	5.8	15.8	33.7	81.1	2.9	15.5 E	S
527888.3	6827908	2497	42	1.1	23.3	2	6.8	7.5	16.5	40.4	0.4	8.8 F	S?
527981.8	6827669	2489	42	0.6	0	8	13.1	34.4	49.5	95.5	3	17.7 G	D
528754.3	6825616	2421.8	42	0.9	15.7	3	7.4	10.1	17.1	48.6	0.8	8 H	S?
528940.4	6825111	2405.2	42	0.8	9.5	8	8.6	13.3	0	38.4	2.3	8.8 I	B?
529259.4	6824300	2378.6	42	0.5	0	1	8.3	21.6	57.5	76.4	6.5	21.3 J	B?
529453	6823827	2363.5	42	13.7	37.9	1	10.4	1.9	49.3	99.8	0.7	8.8 K	B?
529941.6	6822519	2320.5	42	0.8	5.1	0	10.3	16.9	60.6	63.9	11.8	23.7 L	B?
530062.8	6822207	2309.2	42	1.1	7.9	0	12.9	16.2	25.2	35.3	3.8	9.5 M	B?
530302.4	6821590	2288	42	1.8	11.1	1	16	14.4	17.7	109.3	0.8	9.4 N	D
531031.1	6819706	2223.8	42	1.1	14.5	0	9.3	11.2	17.4	17.1	1.4	5.7 O	S?
LINE 1	196												
520685.2	6847485	4886.3	52	0.9	0	0	13.6	22.7	0	45.6	1.2	7 A	B?
521018.6	6846629	4917.8	52	0.4	0	192	7.8	24.1	24.9	86.4	3.7	14.7 B	B?
521246.3	6846095	4937.6	52	1.7	0	68	15.5	14.2	20.3	16.6	2.7	5.6 C	B?
521370.6	6845767	4949.9	52	1.5	0	0	12.7	12.3	73.5	95.1	4.5	22 D	B?
523341.8	6840719	5178.8	52	0.2	0	0	0.8	3.3	6.7	19.9	0.2	3.2 E	S?
524266.1	6838296	5264.1	52	0.1	0	1	0	8.9	13.6	38.8	1.1	4.3 F	S?
524425.6	6837892	5278	52	0.3	0	6	2.9	8.1	6.7	23.6	1.3	3.5 G	B?
524930.4	6836610	5323.2	52	0.6	0	0	5.6	10.5	58.3	37.2	2.4	8.9 H	B?
525009.9	6836402	5329.7	52	2	0	0	16.7	13.7	65.1	47.2	6.1	16.9 I	B?
525684.9	6834684	5387.6	52	0.7	0	2	10.8	21.3	58.3	44.8	1	11.5 J	S?
527219.6	6830683	5531.8	52	0.8	0	4	13.2	22.9	48.3	112.5	2.6	15.9 K	S?
527787.9	6829303	5585.5	52	0.8	0	0	18.1	34.7	42	118.1	2.6	18.9 L	S?
528226.7	6828095	5625.9	52	1.1	0	0	17	23.1	33.2	89.3	1	14.1 M	S?
LINE 1	198												
528322.8	6827871	6703.2	54	1	0	5	13.8	19.1	71.9	141.8	2.5	27.4 A	B?
528510.4	6827359	6685.4	54	1.6	1	0	18	18	99.4	149.2	0	29.9 B	B
528888.8	6826370	6654.6	54	0.6	8.6	0	5.1	9.1	14.4	12.3	0	5.1 C	B?
529638	6824454	6591.3	54	0.7	3.9	0	7.6	12.5	40.2	66.3	4.3	15.4 D	B?
529996.5	6823561	6559.8	54	1	0	1	23.1	40.2	135.5	249.3	14	53.2 E	B?
530190.2	6823029	6540.9	54	0.7	0	0	8.2	15.1	40.7	80.3	3.4	14.8 F	B?
530559.8	6822094	6503.2	54	0.4	0	2	5.3	15.8	53.7	87.8	4.7	18.2 G	B?
531036.3	6820787	6456.4	54	1.4	0	0	27.1	36	85.1	0.7	7.1	29.7 H	B?
531066.4	6820700	6453.3	54	1.2	0	0	24.6	36.4	85.1	125.4	7.1	29.7 I	B?

531185.4	6820412	6442.8	54	0.9	6.8	0	8.9	11.9	42.7	70.2	5.5	11.9 J	D
531257.9	6820246	6436.8	54	0.3	0	0	4	13.5	5.4	44.5	0.6	5.1 K	D
531412.1	6819870	6423.5	54	1.1	17.5	0	7.1	7.4	15.5	66	0.3	8.4 L	B?
LINE 1	201												
520553.7	6848943	3766.5	45	1.3	0	0	29.8	42.8	139.9	209.5	11	50.9 A	S?
520771.3	6848405	3748.8	45	1.3	0	0	23.3	30.4	83.8	98.3	8	28.2 B	B?
520799.2	6848328	3746.3	45	0.1	7.2	0	0	23.8	83.8	98.3	8	28.2 C	B?
520877	6848130	3739.9	45	0.7	0	0	11.1	22	42.6	91.6	4.7	18.1 D	B?
520920.8	6848032	3736.6	45	0.6	0	0	13.6	35.9	46.1	106.4	5.6	19.3 E	B?
521032.1	6847781	3728.4	45	0.7	0	150	9.1	16.6	40.7	48.5	5.1	14.3 F	S?
521140.7	6847475	3718.6	45	0.8	0	0	14.8	26.9	27.9	55	4.2	11.3 G	S
521230.4	6847198	3709.5	45	0.4	0	0	6.6	20	10.2	49.5	1.2	7.4 H	S?
521432.2	6846707	3693.1	45	1	0	0	18.1	29.5	50.5	94.1	2.6	16.6 I	B?
521525.2	6846466	3684.7	45	0.7	8.5	0	4.8	7.4	0	0	1.6	0 J	D
521732.7	6845929	3661.7	45	1.3	0	1	24.5	33.1	100	202.3	8.9	36.9 K	B?
521870.1	6845519	3647.6	45	0.3	0	0	6.6	26	31.1	60.4	4.4	13.8 L	B?
522423.3	6844218	3602.1	45	0	0	0	2.3	3.8	2.4	24.9	0.6	3.5 M	S?
523286.4	6841934	3476.2	45	0	0	0	2.5	4.7	2.3	39.3	0.4	5.1 N	S?
524493.9	6838843	3278.4	45	0.3	0	1	6.1	27.1	31.7	92	2.9	15.5 O	S?
524601.8	6838564	3265.7	45	1.2	16.2	0	6.5	6.1	9.4	19.7	1.5	5.1 P	S?
525443.9	6836386	3189.8	45	0.7	0	0	10.1	19.4	31.7	53.5	2.4	11.7 Q	S?
526197	6834403	3123.7	45	0.6	0	0	7.9	16.5	34.8	77.2	2.8	14.6 R	S?
526338.2	6834043	3112.2	45	0.7	0	0	8.1	13.9	56.6	59.7	7.4	20.3 S	D
526441.8	6833788	3104.1	45	0.5	0	0	7.7	20.6	43.1	60.2	5.3	16.3 T	S
526500.1	6833654	3099.8	45	0.8	0	0	12.9	22.1	55.4	80.6	4.6	20.7 U	S
527359.9	6831444	3025.1	45	0.4	0	0	5.6	15.3	18.4	11.6	2.3	2.6 V	S?
527560.3	6830857	3005.1	45	0.7	0	0	9.2	17.3	26.2	31.6	2.5	9.5 W	S?
528443.4	6828603	2932.3	45	0.9	0	0	13.1	19.9	22.6	33.4	2.4	7.8 X	D
528736.1	6827943	2913.5	45	0.7	0	5	13.2	27.4	21.9	40.8	1.2	6 Y	D
529096.5	6826930	2883.7	45	1.1	0	0	12.9	16.8	56.6	47.9	8.4	21.6 Z	B
529512.4	6825853	2852.4	45	0.2	0	4	2.8	19.6	25.4	51.5	2.2	11.4 AA	S?
530633.1	6822988	2765.5	45	1.7	11.7	0	9.5	7.5	49.2	9.6	10.3	17.7 AB	D
530696.6	6822810	2760.2	45	2.1	0	0	17.3	13.9	52.2	69	1.4	18.7 AC	D
530772.6	6822610	2754.1	45	0.7	0	0	8.4	14.6	9.5	57.2	0.5	1.4 AD	D
530855.9	6822391	2747.3	45	0.6	0	2	5.8	10.8	44.7	93.8	3.7	21.2 AE	D
531335.8	6821163	2707.3	45	0.7	0	0	13.7	31	74.1	133	6.4	28.1 AF	B?
LINE 1	211												

520511.3	6850171	3890	45	0.5	0	0	9.2	24.9	77.8	136.9	6.9	31.2 A	B?
520658.3	6849798	3902.6	45	714.7	78.5	0	3.7	0	29.5	51.9	5.1	12.9 B	S?
520737.6	6849587	3909.6	45	0.7	0	0	11.5	22.8	41.2	78.3	3.8	13.7 C	S
520933.5	6849085	3927.1	45	0.8	0	0	29.9	73.7	188.3	287.6	19	70.9 D	B?
521102.6	6848694	3941.5	45	1.2	0	0	19.8	27.6	31.3	99.3	6.1	13.6 E	B?
521198.8	6848477	3949.7	45	0.7	0	2	13.9	30.1	53.6	90.5	0	23 F	B?
521361.5	6848033	3965.6	45	1.2	1.9	0	16.7	20.8	55.5	87	2.7	19.6 G	S?
521475.7	6847700	3977.3	45	1.2	9.1	0	11.8	13.7	65.4	123.2	5.9	27.7 H	B?
521806	6846839	4011.6	45	0.3	0	0	5.5	18.9	28.8	85.2	2.1	15 I	S?
522023.4	6846316	4037.7	45	1.9	19.8	9	11	8.2	45.3	89.6	3.4	18.2 J	B?
522056.2	6846238	4040.9	45	1.1	25.1	0	6.3	6.4	45.3	89.6	1.1	18.2 K	B?
522481.9	6845150	4096.5	45	0.3	0	0	5.2	21.5	18.3	75	0.8	10.3 L	B?
522963.2	6843863	4171.3	45	0.2	0	9	3.1	14.8	5.2	44.8	1.4	5 M	M
523498.3	6842511	4284	45	0	0	1	2.6	0	0	7.4	0	1.3 N	M
524909.8	6838900	4519.2	45	1	9.3	0	9.7	12.9	33	50.2	2.1	13.1 O	S
524960.7	6838747	4524.6	45	0.6	12.3	7	5.8	9.6	29.4	39	2	9.6 P	S?
525827.1	6836518	4605.5	45	0.5	0	23	8	19.4	58.3	86	3.8	21.6 Q	B?
526348.6	6835160	4658	45	0.8	0	5	15	26.4	70.6	81.6	6	25.1 R	S?
527383	6832544	4752.5	45	0.8	3.2	0	10.8	17.1	15.4	47.7	2.9	8.3 S	S
527827.5	6831349	4793.3	45	0.8	8.3	0	8.2	12.7	84.8	101.4	7.3	29.9 T	B?
527900.9	6831164	4800.4	45	0.1	17.3	8	0	35.2	44.3	117.3	4.3	22.6 U	S?
528543.4	6829494	4866	45	0.3	0	0	4.2	16.5	76.8	140.5	5	30.1 V	S
528604.3	6829333	4871.8	45	0.6	0	1	12.1	27.7	63.8	151	2.4	26.7 W	S?
528969.8	6828457	4904.1	45	0.7	0	0	16.5	37.4	61.9	154.3	3.9	26.4 X	B?
529083.1	6828165	4914.8	45	1	0	11	33.1	68.8	52.7	172	1.7	24 Y	D
529282.7	6827639	4932.9	45	0.5	0	1	7.1	17.4	96.6	91.8	12.2	34 Z	B?
529331.8	6827488	4937.9	45	1.5	0	0	27.6	33.4	179.6	237.4	14.8	63.8 AA	B?
531037.9	6823062	5093.9	45	0.9	0	1	31.7	70.4	136.1	226.7	14	55.4 AB	B
531592.3	6821634	5143.4	45	0.8	0	0	21.8	45.3	101.5	164.7	9.4	38.5 AC	B
LINE 1	221												
521077.3	6849879	6699.2	45	0.7	0	0	17.1	42.3	139.1	210.6	10.3	50.2 A	S
521874.5	6847811	6625.9	45	0.7	0	0	18.5	42.9	59.2	125.3	0	24.3 B	M
522188	6847035	6590.6	45	0.4	0	0	6.3	19.7	13.6	36.8	7.5	5.8 C	B?
522471.4	6846299	6549.4	45	0.8	0	16	14.6	28.3	51.9	90.2	4	15.8 D	S
522652.9	6845753	6519.9	45	0.3	12.1	8	2.1	5.3	10.5	41.7	0.6	6.5 E	S?
523240	6844205	6408.3	45	0	0	229	3.1	3.6	0.3	21.2	0.2	2.6 F	M
525283.4	6839032	6018.2	45	0.5	0	15	5.8	12.9	43.8	68	3.7	16.6 G	S?

526606	6835572	5903.4	45	0.5	0	0	12.4	37.3	66.1	115.7	4.9	26.1 H	S?
526753.2	6835218	5891.9	45	0.8	0	1	19.5	38.6	44.5	111.6	4.3	20.9 I	S?
527188.3	6834128	5852.3	45	0.8	9.5	0	7	10	34.9	59.6	3.2	11.4 J	S?
527320.8	6833780	5836.5	45	0.8	0	0	15.4	29.3	54.3	124.4	4.3	22.4 K	S?
528662	6830320	5721.7	45	0.5	0	6	10.2	30.5	38.8	92.3	3.3	15.1 L	S?
529267	6828755	5672.8	45	0.4	0	0	6.2	22.5	50.7	73.4	3.9	18.3 M	B?
529902.3	6827042	5619.4	45	0.7	1.4	1	8.7	14.5	53.4	52.7	6.7	18.5 N	B?
530064.5	6826624	5606.5	45	2.1	0	3	42.9	44.7	94.9	150.5	5.3	32.7 O	S?
530391.1	6825888	5581.2	45	0.6	0	0	8.4	17.9	28.4	31.2	3.1	9.6 P	S?
530854.6	6824576	5539.9	45	0.7	0	8	12.6	25.7	108.1	152.7	10	39.5 Q	S?
530968.4	6824318	5530.7	45	0.1	13.5	0	0	15.8	41.3	73.3	1.9	14.8 R	B?
531225.9	6823678	5508.9	45	1.7	5	0	15.9	14.5	54.9	77	6.2	20.6 S	B?
531438.8	6823144	5491.5	45	1.5	5.4	0	14	14.1	75.1	112.4	8.7	28 T	B?
531626.3	6822719	5477.2	45	1.4	0	1	27.6	36.3	49.5	78.9	1.6	17.9 U	B?
531761.3	6822371	5465.8	45	1.2	0	0	26.8	38.9	134.8	231.4	9.9	52.2 V	B?
531974.8	6821769	5446.7	45	1	1.5	0	11.9	16.2	68.6	100.6	10.6	27.2 W	B?
532199.4	6821163	5427.7	45	0.8	0	0	18.3	36.1	92.1	131.4	7.5	33.5 X	S?
LINE 1	231												
521355.4	6850256	7370.5	45	0.2	0	0	4.2	28.4	39.6	121.7	10	19.6 A	S?
521932.5	6848785	7431.7	45	1.7	40.2	0	8.2	6.4	38.9	23.7	3.4	11.9 B	B?
522375.4	6847692	7470	45	0.7	3.6	0	16.5	37.6	23.1	84.3	2.5	13.1 C	S?
522607.9	6847057	7493	45	0.8	15.3	0	11.5	19.6	43.5	115.2	3.4	17.4 D	S?
522918.3	6846217	7532.9	45	0.4	12.2	0	4.7	13.8	5.7	36.8	4.8	5.2 E	S?
522962.3	6846103	7539.8	45	0	0	41	0	5.3	90.4	8.4	3.1	1 F	M
523470.1	6844801	7633.8	45	0.9	49.8	0	3.8	4.2	6.5	13.8	6.8	0.9 G	M
523754.3	6844081	7679.7	45	0.4	31.9	0	3.2	6.4	2	8.7	0.8	2.7 H	M
523841.1	6843833	7702.2	45	0.1	10.3	217	0.4	4.2	97.3	7.8	10.9	1.3 I	M
525702.3	6839117	8036	45	0.4	11.8	0	4.6	13.7	43.4	79.5	1.7	15 J	S
525977.4	6838372	8062.4	45	0.3	17.2	0	3.1	9.4	17.6	59.8	1.1	8.9 K	S?
526184.6	6837736	8084.1	45	0.9	20.7	12	10.5	15.2	52.8	103.9	6.2	15.2 L	B?
526771.8	6836265	8136.2	45	1.7	7	0	36.7	44.1	151.2	189.8	10.9	38.6 M	S?
527161.4	6835306	8172.5	45	0.8	14.9	1	11.2	19.8	69.2	38.9	4.8	17.5 N	S?
527467.7	6834502	8203.3	45	0.4	0.6	0	9.1	31.3	22.3	96.2	2.6	14.4 O	S?
528474.8	6831972	8293.7	45	0.6	14.7	2	7.8	16.7	108.4	125.1	8.7	35.4 P	S?
529182.7	6830094	8365.9	45	0.7	0.6	1	19.8	47.4	53.8	99.3	8.5	21.7 Q	B?
529291.6	6829800	8376.7	45	1.3	0	0	47.1	80.4	160.4	230.7	15.7	58 R	B?
529416.1	6829456	8389.2	45	1.2	2.2	1	34.2	58	121.8	142.2	12.8	41.4 S	B?

529539.1	6829140	8400.8	45	0.6	0	5	26.4	94.1	104.5	343.5	4.7	51.9 T	S?
530866.9	6825787	8521.3	45	0.7	10.5	0	13.3	25.7	61	90.6	5.7	22.1 U	S
531199.9	6824934	8550.9	45	0.8	3.8	0	19.5	40.6	10.4	148.5	3.2	18.7 V	B?
531786.4	6823380	8605.1	45	3	20.7	0	25.9	17.3	87.8	125.8	11.6	33.6 W	B?
531839.2	6823230	8610.2	45	1.2	10.8	0	21.4	30.3	61.9	69.2	10	23.8 X	B?
LINE 1	241												
524971.5	6842001	9708.9	45	0	0	91	2.9	3.9	3.7	2.1	1.5	1.1 A	M
526990.8	6836774	9489.3	45	0.4	0	6	8.6	29.1	76.3	109.6	4.1	24.8 B	B?
527731.7	6834989	9429	45	1	1.2	0	18.3	30.4	53.7	99.5	4.1	19 C	S?
528154.1	6833797	9384	45	1.3	2.6	0	23.6	30.8	71.1	141.7	5.4	26.9 D	S?
528720.9	6832388	9333.5	45	1.3	8.9	0	17	20.4	53.7	40.4	6.8	14.6 E	S?
531426.9	6825442	9107.6	45	0.8	0	1	17.6	37.5	74.3	161.1	4.4	31.3 F	S?
531528	6825117	9096.1	45	2.4	24.3	0	13.4	8.9	55.2	94.7	4.3	21 G	B?
531681.8	6824698	9081.1	45	1.2	0	1	28.8	43.3	91.4	162.4	0	37.6 H	B?
532118.5	6823626	9044.2	45	0.8	4.2	0	12.9	23.1	51.5	85.5	5.6	18.8 I	B?
532260.6	6823263	9031.7	45	1.7	1.3	0	31.8	35.9	125.3	198.9	10.9	49.5 J	B?
533022.9	6821253	8964.7	45	1.2	7.4	0	17.3	22	88.3	133.3	7.3	34.5 K	D
533231.7	6820779	8945.9	45	1.1	0	0	30.3	52.5	67.9	168.5	3.4	28.5 L	S?
LINE 1	242												
520676.6	6853099	10295 9 45		1.1	13.4	0	13	16.7	21.4	18.9	4.6	8.2 A	B?
521570.8	6850844	10219 1 45		0	0	572	0.1	8.1	7.1	51	4.5	8.3 B	M
521718.5	6850391	10201 1 45		1.4	0.3	0	30.7	42	96.5	168.5	3.1	32.4 C	S?
521904.8	6849940	10185 5 45		0	0	442	0.4	16.4	25.4	56.9	4.5	10.9 D	M
522069.9	6849500	10170 7 45		0.7	0.9	151	14	29.1	34.7	90.3	2.9	16.2 E	S?
523203.4	6846514	10072 7 45		0	0	0	0.8	9	7.1	20.1	1.4	3.7 F	S?
LINE 1	246												
523158.9	6846738	8341.2	52	0	0	114	5.2	6.7	7	15.5	3.2	2 A	M
523249.1	6846511	8350.9	52	0	0	258	3.4	12.7	8.8	28.7	1.2	4.7 B	M
523329.7	6846291	8359.1	52	0	0	0	10.2	21.5	15.1	52.1	2.2	7.6 C	S
LINE 1	256												
520561.3	6854448	8040.3	52	2.6	0	7	23	16.5	179.2	202.8	16.8	54.4 A	B?
520686.9	6854124	8030.1	52	0.8	0	0	17.2	32.6	25.4	97.4	2.7	13.9 B	B?
520969	6853484	8009.4	52	1	0	1	20.2	31.7	111.2	92.4	15.1	34.8 C	B?
521057.9	6853215	8001.3	52	2.1	0	5	25.4	22.4	0	145.4	0	0 D	S?
521999.4	6850790	7925.7	52	1.2	0	0	12.6	15.1	152.9	142	14.1	46.6 E	B?
522540.6	6849426	7884.2	52	3.1	0	0	26.5	17	69.4	50.7	7.1	21.8 F	B
523576.3	6846756	7806.7	52	0.5	0	0	7	18.1	5.5	41.1	0.9	6.2 G	S?

526575.2	6839000	7360.8	52	0.3	0	0	3	11.8	29.3	53.7	2	12.1 H	S?
527877.5	6835672	7255.3	52	2.3	7.7	0	13.4	9.2	59.2	70.7	3.5	13.8 I	S
528509.3	6833956	7191.1	52	215	352.3	0	0	0	97.7	148.5	9.7	32.5 J	S?
528677.9	6833553	7177.7	52	0	0	0	0	3.4	55.2	128.2	5.8	21 K	S?
528991.1	6832698	7148.8	52	1	0	0	15.4	23.2	46.4	77	5.8	14.7 L	S?
530354.1	6829224	7038.2	52	0.8	0	0	9.6	15.3	53.8	61.8	6.7	16.5 M	B?
530408.5	6829070	7033.7	52	1.8	0	0	20.9	20	53.8	61.8	6.7	16.5 N	B?
532056.6	6824838	6913.8	52	1	0	0	11.7	16	79.1	101.3	10	24.4 O	B?
532437.3	6823922	6886.3	52	1.1	0	0	24.6	37.9	151.5	252.2	11	48.2 P	B?
532819.9	6822899	6857.5	52	0.9	0	0	15.2	24.2	50.1	91.5	6	19.5 Q	D
LINE 1 260													
528800.8	6834474	8056.7	39	0.6	0	0	12.2	30	79.8	141.4	5.4	28 A	S
529202.3	6833431	8030.3	39	1.3	0	0	16.5	19	80.6	58.7	6.9	28.7 B	B?
529249.2	6833311	8027.2	39	0.1	0	0	1.9	12.2	122.1	109.1	0.2	37.9 C	B?
529866.4	6831697	7982.6	39	1	0	1	17.3	26.5	40.6	83.6	4.6	15.4 D	B?
530087.8	6831152	7967.5	39	0.9	0	0	11.8	18.7	70.3	106.3	4.8	22.7 E	S?
530526.2	6829964	7930.7	39	0.8	0	5	10	16.9	34.3	86.6	4.3	13.5 F	B?
531336.7	6827907	7878.3	39	0.9	0	0	9.3	13.4	30.4	29.5	2.9	9.5 G	D
531386.3	6827761	7874.6	39	1.4	7.3	0	10.3	10.2	27	23.1	2.6	6.1 H	B?
532751.2	6824286	7781.1	39	1	0	0	28.3	52.2	88.6	180.3	1.8	31.8 I	B?
532873.7	6823932	7771.4	39	1.2	0	0	26.2	40.2	81.2	167.5	5.9	29.3 J	B
532915.9	6823805	7768.1	39	999	11.6	0	26.6	0	81.2	0	0.2	29.3 K	B?
533829.7	6821510	7707	39	0.2	0	1	2.2	10.6	29.5	22.8	3.9	10.3 L	B?
533930.6	6821235	7697.7	39	0.8	0	1	10.3	16	8.3	43.5	2.6	5.2 M	B?
534472.6	6819887	7653.5	39	0.8	0	0	8.1	13	29.9	73.5	3.8	10.9 N	D
LINE 1 268													
520603.4	6855527	7819.5	54	59.5	22.8	0	33	2.8	210.1	272.5	24.1	73.1 A	B
520635.1	6855448	7816.7	54	1	7.4	0	17.1	27.4	210.1	272.5	24.1	73.1 B	B
520717.3	6855243	7809.5	54	1.4	8.3	0	24	29.1	64.1	54.7	10.3	19.4 C	B
520816.1	6854975	7800.3	54	1.4	2.3	0	32.2	44.5	77.8	161.3	5.5	26.9 D	B?
521070.1	6854297	7777.4	54	1	1.9	4	22.6	40.1	0.3	93.7	0.1	7.3 E	B?
521221.8	6853961	7765.6	54	1.7	6.3	0	30.4	34.6	85.8	82	10.4	23.4 F	B?
521476.2	6853284	7742.4	54	1.2	13.2	18	15.6	20.1	40.6	67.3	4.6	15.9 G	B?
521572.5	6852995	7732.6	54	0.7	12.6	0	9.9	17.7	13.2	28.5	0.6	5.8 H	B?
521942.1	6852051	7698.2	54	1.1	9.1	172	18.6	25.9	84.4	88.2	11	30.6 I	S?
522058.6	6851798	7689.5	54	2.1	5.4	126	39.1	38.5	97	143.4	9.2	32.9 J	S?
522116.3	6851663	7684.9	54	1.6	9.6	0	24.2	27.2	122.9	143.4	12.4	0 K	B?

522416.3	6850858	7653.5	54	1.7	22.2	0	14.5	12.8	37	27.7	11.5	16.3 L	B?
522569.3	6850471	7639.4	54	0.6	5.4	11	10.3	23.2	22.8	69.2	1	7.4 M	B?
522660.3	6850238	7632.2	54	1	24.7	240	8.7	10.5	0	8.6	4	10.1 N	B?
522942	6849539	7610.5	54	1.4	6.4	0	25.8	33	47.9	67	0.8	13.7 O	B?
523342.6	6848479	7576.3	54	2	35.5	0	9.5	6.6	0	27.2	3.4	0 P	B?
523477	6848175	7565.8	54	1.2	17.4	82	13.4	16	53.9	97.9	0.4	20 Q	S?
524036.8	6846684	7510.2	54	0.2	4	6	2.4	11.3	17	48.2	1.3	6.8 R	S?
LINE 1	271												
527296.2	6839547	7009.7	39	0.9	0	0	13.3	20.6	20.9	65	2.3	6.3 A	E
527392.3	6839300	7016.5	39	0.4	0	0	6.6	18.9	27.1	93.2	1.3	13.3 B	S
527542.6	6838884	7027.6	39	0.5	4.2	3	5.9	12	15.6	73.2	0.9	9.9 C	S?
528408.5	6836548	7087.7	39	1	0	0	16.3	25.5	86.1	154.6	3.7	30.1 D	B?
528929.1	6835172	7123.7	39	0.8	7.6	0	8.5	12.5	20.9	29.4	2.5	6.2 E	S?
529345.6	6834150	7150.7	39	0.4	0	0	6.3	17.8	40.2	105	0.2	16.2 F	S?
529559.5	6833546	7168.2	39	0.7	2.5	0	8	14.8	25.4	53.9	3.1	7.5 G	S?
530419.1	6831359	7226.3	39	0.8	3	0	9.4	15.5	49.7	71.9	4.1	14.9 H	B?
531239.8	6829262	7281.5	39	1.6	0	0	21.9	24.2	84.9	124.5	5.5	26.6 I	B
531661.1	6828190	7311.2	39	0.7	5.1	0	8	13.5	57.3	96.3	5.1	20.8 J	B?
532788.4	6825240	7385	39	2.4	4.6	0	22.5	17.4	87.6	86.7	10.4	26.7 K	B?
532909.6	6824925	7392.5	39	0	0	0	0.1	32.3	77.8	116.3	10.8	26.9 L	B
533033.1	6824655	7399.5	39	0.8	0	0	15.7	28.8	63.5	98.6	6.1	20.9 M	B
533175.1	6824336	7407.8	39	0.5	0	0	9.5	29.7	55.2	102.1	1.3	21.8 N	B
533394.1	6823833	7420.5	39	1.4	8.9	0	12.9	13.2	74	74	9.6	22.9 O	B
534178.1	6821839	7475.9	39	0.9	11.3	0	7.7	10.6	56.7	70	4.6	18.4 P	B?
LINE 1	275												
520650	6856487	6148.4	50	2.6	0	0	20.6	14.5	92.3	107.9	9	27 A	B?
520779.9	6856222	6138.6	50	2.3	0	31	47.9	47.6	89.2	115.4	8.8	27.6 B	B?
521523.9	6854263	6075.4	50	1.9	0	17	31.8	33	134.6	101.5	17.5	39.7 C	D
521634.1	6853932	6064.7	50	1.1	0	27	23.2	36.7	89.3	150.7	9.2	25.1 D	B?
521806	6853496	6047.9	50	1.7	0	0	54.9	76.1	220.8	305.8	18.4	67.4 E	B?
522095	6852816	6019	50	2	0	107	29.9	29.2	154.3	152.5	19.2	49.3 F	S?
522160.8	6852615	6011.5	50	2.6	0	0	60	56.9	136.7	149.3	14	40.3 G	S?
522374.9	6852006	5987.8	50	0.8	0	23	18.1	34.3	61.3	110.9	7.2	23.2 H	B?
522511.4	6851705	5972	50	1	0	0	31.6	58	128.8	210.4	17.3	44.3 I	B?
522616.2	6851465	5959.6	50	0.3	0	51	5.2	25.7	0	37.7	0	8.2 J	S?
522943.8	6850716	5923.2	50	1.7	0	135	48	61.3	179.1	164.3	16	49.2 K	B?
523266.4	6849676	5890.9	50	2.4	0	0	60.7	60.4	189.8	191.5	9.1	46.3 L	S?

523490.2	6849239	5876.5	50	1.6	0	0	20	20.9	37.1	68.8	2.2	11.6 M	S?
524472.5	6846657	5783	50	1.9	27.2	0	6.1	3.9	10.3	50.1	0.4	6.9 N	S?
LINE 1	280												
520638.1	6857748	6207.5	39	1.2	0	0	30.8	47.1	148.5	247.6	12.7	43.3 A	H
520922	6857036	6189.7	39	2.3	8.6	0	23.3	18.6	69.1	85	6.9	22.5 B	H
521117.2	6856514	6177	39	2.6	1.2	0	37.8	30.8	105.2	157.8	8.4	35.8 C	B?
521408.3	6855711	6157.7	39	1.8	0	1	42	48.7	125.8	129.7	12.2	39.3 D	B?
521527.9	6855413	6150.4	39	1.3	0	0	24.6	32.6	210.2	199.4	23.5	73.6 E	B?
521783	6854773	6134.6	39	999	28.3	0	21.3	0	101.7	112.7	6.4	29.2 F	B?
521863.7	6854563	6129.4	39	3.8	0	0	76.1	56	193.7	147.8	28	68.1 G	B?
521995.4	6854223	6120.3	39	1.5	0	471	26.7	32.5	27.4	54.8	5.3	6.8 H	B?
522073.8	6854023	6114.7	39	2.1	10.1	148	20.2	17	73.4	17.2	18.4	27.3 I	B
522304.1	6853459	6097.5	39	0.9	0	0	22.5	41.6	37.8	78.6	6.7	17.9 J	B?
522374.6	6853284	6092.3	39	0.1	21.1	62	0	24.3	78.9	78.2	0	23.4 K	B?
522658.9	6852450	6068.5	39	0.6	0	59	9.7	23.2	25.3	40	3.3	9 L	B
522874.9	6851939	6053.6	39	3.4	3.8	0	38.1	25.1	149	112.8	16.3	47.2 M	B?
523220.5	6851140	6032.9	39	1.5	0	32	28.6	35.3	74.5	89.8	7.4	21.1 N	S?
523720.1	6849713	5996.4	39	1.3	18.2	0	10.2	10.6	27.4	0	2.9	6.8 O	B?
523777.3	6849551	5991.9	39	0.4	0	0	6.4	17.4	54.4	67.7	3	15.7 P	B?
524554.1	6847462	5926.3	39	0.5	2.5	0	7.1	16.3	27.8	60.1	1	10.1 Q	S
524752.1	6846866	5909.3	39	0	0	0	3.7	3.9	4.7	30	0.9	3.9 R	S?
527661.2	6839666	5477.9	39	0.6	0	0	11.5	30.3	27.4	85.4	1.6	6.8 S	E
529759.2	6834206	5333.3	39	0.3	0	0	5.4	18.5	43.5	81.7	5.3	10.6 T	S
529844.4	6833967	5327.6	39	0.7	9.4	0	7.9	13.8	26.4	0.4	3.5	11.1 U	D
530916.1	6831190	5254.4	39	2.2	10.8	0	20.2	16.3	0	40.5	1.4	1.1 V	D
531610.4	6829371	5208.8	39	1.3	5.4	0	18.1	21.5	98.5	154.7	10	35.3 W	B?
531645.3	6829284	5206.6	39	1	0	1	23.4	38.7	98.5	154.7	10	35.3 X	B
531985.8	6828383	5183.7	39	0.7	0	0	15.5	31.7	101.4	140.4	9.6	34.9 Y	B
533013.7	6825741	5112.4	39	0.8	0	0	27.5	66.2	149.1	227.7	14.8	56.3 Z	B?
533179.9	6825325	5101.3	39	1.4	0	0	27.3	35.8	128.6	192.7	9.7	43.9 AA	B?
533454.4	6824593	5082.3	39	2.4	16.9	0	16.3	11.4	56.7	53	6	18.1 AB	B
533660.8	6824068	5068.8	39	2.4	20	0	14.3	9.7	27.4	0	4.7	6.8 AC	B?
533736.6	6823886	5064.1	39	0.9	3	1	13.2	21.8	36.8	77.6	1.6	13.2 AD	B
534493.2	6821974	5013.2	39	0.9	2.4	0	13.6	22.6	68.6	129.7	4.7	25.1 AE	B?
534639.7	6821560	4997	39	0.9	14.7	3	8.8	11.7	27.4	72.6	5.3	6.8 AF	B?
534703.5	6821368	4991.6	39	1.3	0	0	27.9	40	51.8	70.3	5.3	16.5 AG	S
535052.4	6820413	4961.9	39	0.4	0	0	8.6	31.9	40.6	143.7	1.8	23.2 AH	S?

LINE 1	290												
520464.3	6859345	3546.5	39	0.8	0	0	22.8	47.2	53.9	95.5	9.3	22.3 A	B?
520908	6858096	3580.8	39	2.9	1.7	0	57.1	48.6	166.8	201.1	15.2	56.5 B	B?
521004.8	6857866	3587	39	6.2	37.3	2	13.1	4.2	38.8	22.6	5.9	10.8 C	H
521186.3	6857406	3598.9	39	3	20.2	0	21.1	13.2	31.7	27.3	29.6	8.8 D	H
521301.3	6857070	3607.2	39	3.9	20.1	0	24	12.7	56.8	69.6	7.5	15.9 E	B?
521383	6856829	3613.3	39	1.7	13.7	0	19.6	19.7	14	41	5	2 F	B?
521451.1	6856629	3618.5	39	999	36.1	0	19.9	0	58.5	40.3	8.6	19.4 G	B?
521825.3	6855669	3644	39	2.7	2.4	0	52.3	45.7	30.1	87.3	4	22.9 H	B
521981.5	6855274	3654.7	39	999	19.5	0	45.3	0	156.3	119.7	39.3	50.7 I	B?
522061.5	6855088	3659.7	39	13.5	21	0	31.6	7.3	0	12.4	0	0 J	D
522143.4	6854891	3665	39	999	15.3	383	58	0	235	144.6	38.9	78.3 K	B?
522529.9	6853915	3692.1	39	1.8	2.2	0	38.7	44.3	262.9	246.8	21	80 L	S?
522841.3	6853042	3722.6	39	0.1	27.4	0	0	19.1	43.1	127.9	0.2	17.2 M	S?
522941.2	6852732	3731.6	39	1.3	0	0	35.6	54.6	164.2	212	8.9	49.1 N	S?
522974.6	6852673	3733.6	39	999	24.4	88	34.7	0	164.2	212	8.9	49.1 O	S?
523199.6	6852215	3747.6	39	0.9	5.6	83	15.7	27.5	95	80.8	9.2	27.8 P	B?
523264.6	6852059	3751.3	39	1.2	14	14	15.2	18.5	0.4	0	0.3	0.4 Q	B?
523343.2	6851848	3756.3	39	0	0	39	0.7	38.8	171.8	156.6	0.1	52.5 R	B?
523371.7	6851756	3758.5	39	999	39.5	0	17.3	0	171.8	156.6	20.2	52.5 S	B
525282.5	6846814	3910.5	39	0.1	0	0	1.8	19.4	23.3	89.8	0.2	13.4 T	S?
526413.3	6843977	4074.8	39	0.8	14.6	0	9.5	15.5	18.4	39.6	0.5	6.9 U	B?
528107.9	6839532	4288.1	39	0.5	23.9	0	4	8	15.2	16.2	0.8	4.3 V	S?
528359.1	6838904	4313.8	39	0.4	1.6	5	5.5	18.5	28.4	54.5	1.2	10.2 W	S?
531827.1	6829880	4552.6	39	2.3	8.3	1	32.7	28.9	48.4	48.9	3	10.6 X	B?
531986.9	6829502	4562.3	39	1.4	10.6	0	20.1	23.3	55.6	61.5	6	20.4 Y	B
532022.4	6829411	4564.6	39	2.2	19.4	0	18.4	14.2	55.6	61.5	6	20.4 Z	B
532241.6	6828846	4579.4	39	1.3	20.2	1	12.3	13.2	65.3	45.6	9.2	20.1 AA	B?
533414.5	6825802	4658.2	39	0.9	13.8	0	10.9	16.8	44.3	55.6	3.4	15.4 AB	B
533638.3	6825241	4672.7	39	1.1	15.3	0	12.9	16.6	56.7	52.2	6	18 AC	B?
533912.7	6824563	4689.9	39	1.8	12.6	0	21.8	21.3	69.2	79.4	6.3	22.1 AD	B
534047.3	6824212	4698.5	39	1.4	22.8	0	11.8	11.6	79.6	79.5	8.1	26.4 AE	B
534371.5	6823440	4718	39	2.1	18.2	1	19	15.2	40.8	31.4	8.1	14.5 AF	B?
535262.8	6821110	4778.9	39	0.1	27.4	0	0	13.4	15.8	64.7	2	8.8 AG	B?
LINE 1	300												
520626.1	6859959	3365.1	39	0.6	0	0	11.8	26	83.8	169.5	6.9	31.2 A	S?
520747.1	6859670	3357.5	39	0.7	0	1	17	41.9	101.8	197.2	6.3	39.4 B	B

521085.5	6858771	3332.7	39	1.2	7.5	0	13.5	16.9	99.1	127.9	12.3	33.9 C	B?
521234.8	6858392	3322.7	39	1.2	3.7	0	16.7	21.4	29.9	31.1	7.4	11.5 D	B?
521283.8	6858267	3319.4	39	6.9	25.8	0	15.7	4.9	15.7	0	7.4	11.5 E	B?
521362	6858082	3314.4	39	1.3	0	0	28.7	40.4	91.4	142.6	8.2	33.1 F	B?
521391.2	6858011	3312.5	39	1.6	0	0	34.6	42.4	91.4	142.6	8.2	33.1 G	B?
521455.5	6857847	3308.1	39	3.9	7.6	0	30.4	17.2	50.9	40.3	0	15.1 H	B?
521789	6856984	3285.4	39	1.8	0.2	0	27.3	28.9	0	53.5	2.9	0 I	B?
521937	6856593	3275.6	39	1.3	0	0	23.6	31.8	104.6	184.9	11.8	38.6 J	B
522079.8	6856178	3265.4	39	1.8	0	0	29.1	30.2	168.2	133.4	0	57.8 K	S?
522255.9	6855733	3254.2	39	1.9	1.3	0	27.3	27.2	104.2	136	15.8	33.6 L	B?
522292.8	6855653	3252.1	39	1.7	0	0	38.9	46.1	104.2	136	15.8	33.6 M	B?
522445	6855327	3243.4	39	1.5	0	0	37.2	51.3	149.7	176	16.3	46.5 N	S?
522609.3	6854874	3231.2	39	2.4	2	0	31.3	26.3	143.6	115.1	16.2	43.1 O	S?
522764.1	6854402	3219.1	39	0.9	5	16	12.4	18.3	71.7	67.4	17.4	33.2 P	B?
523149.8	6853345	3188.9	39	1.7	1.7	5	24.7	26.1	132.4	180.9	8.6	42.7 Q	S?
523252.3	6853106	3181.6	39	1.4	0	147	41.7	60.5	126.3	200	7.1	40.7 R	B?
523453.3	6852677	3167.7	39	1	4.6	0	13.6	19.3	78.1	64.8	7.5	23.7 S	B?
523563	6852395	3160.4	39	1.1	1.5	112	16.2	23.5	14.8	75.5	0.1	5.2 T	B?
523660.2	6852132	3154	39	1.3	0	0	31.1	46.5	144.1	163.4	10.4	42.5 U	B?
524176.9	6850780	3119.9	39	0.3	0	0	4.1	18.7	40.1	74.7	3.5	14.9 V	S?
525171.6	6848187	3037.4	39	0.3	0	0	5.4	19.8	18.6	76.8	0.7	11.2 W	S?
527151.1	6843056	2825.4	39	0.7	11.3	0	6.9	11.6	0.8	9.2	0.2	2 X	B?
527726.6	6841627	2718.7	39	0.1	0	0	0.8	9	102.4	0	0	3.1 Y	B?
527892.8	6841220	2693.5	39	0.2	0	0	2.1	10.3	3.7	12	1.5	2.6 Z	S?
528391.8	6839997	2626.5	39	0.7	0	6	11.4	22.4	6.9	80.9	1	3.1 AA	E
529203.7	6837902	2567.5	39	1	2.7	0	14.5	21.5	88.2	103.3	10.7	30.6 AB	B
529500.9	6837151	2547.5	39	1.5	8.7	0	15.9	16.5	61.6	0	3.1	3.1 AC	D
529567.8	6836966	2542.8	39	1	0.7	0	16.2	24.4	108.7	199.3	8.9	36 AD	B
531516.4	6831793	2414.4	39	1.6	4.4	1	21	21.7	41.9	48.7	3.1	11.7 AE	S?
532298.4	6829729	2362.8	39	1.9	5	0	22.4	21.3	60.7	83.7	5.5	21.6 AF	B?
532612.5	6828978	2343.3	39	1.3	16.4	0	10.3	10.7	51.3	62.9	7.9	17.2 AG	B
533203.7	6827522	2305.1	39	0.6	0	0	9.2	20.2	40.6	95.7	1.2	17.1 AH	S?
533855.1	6825798	2260.6	39	1.4	22.4	0	8.9	8.1	28	50	1	9.5 AI	B
534268.1	6824766	2235.5	39	1.2	15.1	0	9.9	11.3	37.3	40.5	5	13.7 AJ	B?
536082.1	6820041	2117.4	39	1.6	10.8	0	15.5	14.8	34	51.3	2.9	12.3 AK	B?
LINE 1	310												
520873.1	6860494	456.9	39	1.2	0	0	17.7	23.7	71.9	54.2	7.3	22.6 A	S?

520936.4	6860337	460.9	39	0.7	0	0	17	37.1	71.9	132	7.3	22.6 B	S?
521106.4	6859876	472.6	39	1	0	0	28.1	49	77.7	125.4	6.9	28.3 C	S?
521453.9	6858993	494.5	39	2.5	9.6	0	18.6	13.2	92.7	79.9	13.1	30.1 D	B?
521505.7	6858850	497.9	39	2.4	4	0	24.1	18.5	92.7	79.9	13.1	30.1 E	B?
521619.7	6858533	505.5	39	1.8	11.7	0	13.8	11.9	20.2	36.5	6.6	8.4 F	B?
521662.1	6858419	508.3	39	2.4	13.1	0	15.8	10.9	44.6	47.2	6.6	16.4 G	B
521899.3	6857844	522.5	39	1.4	0	0	38.1	53.3	121.8	195.5	10.5	43.9 H	B
521994	6857609	528.5	39	3.1	9.3	1	21.4	13.1	98.1	163.6	9.9	29.1 I	B
522187.9	6857123	541	39	1.6	0	0	27	30.6	93.4	0	7.2	35.8 J	B?
522252.6	6856942	545.7	39	3.1	0	15	59.5	47.6	195.2	183.9	26.7	68.6 K	B?
522679.6	6855798	577.9	39	3.9	0	0	89.7	66.9	276.2	212.1	42	95.3 L	B?
522727	6855698	581.6	39	31.3	0	0	80.6	13.1	276.2	0	36.3	95.3 M	B?
522770.4	6855589	585.7	39	1.5	0	95	22.9	26	0	0	36.3	0 N	B?
522798.7	6855507	588.9	39	0.6	10.9	0	5.2	9.4	0	0	0	0 O	B?
523201.9	6854531	622.3	39	1.2	0	95	29.8	47.6	81.1	90.4	4.5	21.9 P	S?
523258.9	6854376	625.9	39	0.9	0	0	14.9	23.3	81.1	90.4	3.7	21.9 Q	S?
523641.5	6853354	649.7	39	2.6	0	219	59.7	56	233	193	32.2	79.1 R	S?
524017.9	6852448	673.4	39	1.4	0	55	27.4	35.9	90.2	128	4.4	25.2 S	S?
524109.3	6852193	680.1	39	1.8	0	60	28.4	30	78	156.4	6.9	25.7 T	S?
524207.8	6851899	687.9	39	1.5	2.5	126	18.4	19.8	41.4	0	0	0 U	S?
524607.3	6850904	716.4	39	0.3	0	21	8.8	37.7	45.9	114.4	0.8	17.5 V	S?
526670.8	6845629	1071.6	39	0.4	0	0	7.1	25.1	21.9	89.9	0.7	12.4 W	S?
526807.1	6845267	1085.7	39	0.4	13.5	0	3.1	6.7	3.9	47.3	0.5	7.7 X	B?
526850.3	6845180	1089	39	0.3	0	0	5.2	18.5	12.3	47.3	0.9	7.7 Y	B?
527282.9	6843974	1127.9	39	0.3	0	0	4.3	15.5	6.1	18.2	0.4	3 Z	B?
LINE 1	311												
529889.9	6837312	1523.9	39	11.3	47.6	0	7.1	1.3	53.1	0	0.8	20.8 A	B?
530083.7	6836833	1536.3	39	968.4	47.7	0	9.1	0	48.7	45.2	5.6	15.6 B	D
532890.4	6829620	1725.2	39	0.5	0.2	0	5.7	14.3	54.4	60.2	4.8	18.1 C	B?
532926.8	6829502	1728.1	39	32	33.4	0	12.5	1.3	54.4	0	4.8	18.1 D	B?
533634.7	6827640	1781.1	39	0.6	6.1	0	6.2	12.5	39	51.1	1.7	11.8 E	B?
534182.2	6826167	1820.2	39	0.8	0	0	17.4	32.4	57.6	141.9	2.3	23.3 F	B
534287.6	6825860	1827.7	39	1	2.6	0	13.4	19.8	59.9	105.4	4.5	21.3 G	B?
534517.9	6825241	1844.2	39	1.5	2.5	0	20.2	22.3	32	80.3	2.2	14.4 H	B
534799.3	6824523	1862	39	0.3	0	0	5.5	22.7	56	91.9	6.1	20 I	B
535547.4	6822560	1911.6	39	0.5	0	0	7	18.4	48.1	114.4	1.8	19.6 J	S?
535804.7	6821940	1927	39	0.9	6.1	3	10.2	15.5	56	100.4	4.6	21 K	S?

536119.8	6821161	1948.2	39	0.7	39.9	2	2.8	3.5	46.9	62.2	3.8	13.2 L	S?
536497.3	6820276	1970.5	39	1	0	0	20.2	34.6	62.2	88.9	6.3	23.7 M	B?
536667.9	6819818	1981.7	39	0.6	0	0	10.9	23.3	115	153.1	14.9	45.8 N	B?
LINE 1	315												
527592.8	6843089	4954.9	50	0.3	0	0	6.6	24.8	7.8	48.9	0.8	7.1 A	B?
LINE 1	320												
520564.8	6862349	7506	38	1.6	6.7	0	27	31.1	173.2	242.6	17.6	60 A	B
520667.8	6862088	7497.3	38	0.9	0	0	29.6	59.5	93.6	174.5	6.2	35 B	B
520909.6	6861444	7475.4	38	0.7	0.9	0	15	32.6	59.3	158.2	3.8	25.1 C	B
521048	6861061	7463	38	1.8	11.1	0	23.2	23.3	77.7	156.9	4.1	28 D	B
521420.7	6860093	7430.4	38	1	1.1	0	24.7	41.2	87.4	170.9	8.5	36.7 E	B
521531.1	6859838	7420.5	38	1.1	2.9	0	22.6	36.2	2.6	71.7	1	11.2 F	B
521645.8	6859514	7408.7	38	1.5	0	0	42.3	57.9	67.9	107.3	9.4	22.4 G	B
521731.2	6859279	7401	38	1.5	0	0	42.5	58.9	99.3	162.4	8.9	34.9 H	B
522085.6	6858383	7373.9	38	999	15.6	0	57.1	0.5	156.1	257.7	12.2	53.1 I	B?
522544.3	6857146	7337.5	38	3.1	8.8	48	38.8	27.7	76.5	79.2	11.3	24.6 J	B?
522970.3	6856104	7307	38	1.8	5.6	0	31.5	34.3	212.8	197	21.6	68.4 K	B?
523162.4	6855617	7293.4	38	1.7	0.1	0	42.1	51.9	114.9	120.2	0	34.8 L	B?
523339.7	6855170	7280.3	38	3.2	6.3	86	45.3	33.4	154.6	144.2	13.5	46 M	B?
523936.9	6853494	7223.3	38	0.5	5.4	49	7.4	18.7	54.3	89.9	4.4	19.4 N	B?
523991.9	6853398	7220	38	1	14.6	21	12.3	16.8	46.6	89.9	4.4	19.4 O	B?
524284.5	6852690	7199.6	38	0.5	2.8	0	8	21.5	0	60.4	1.8	10.5 P	B?
527954.8	6843246	6757.6	38	0	0	0	2	11.2	2.8	16.2	0.8	1.4 Q	S?
529158	6840214	6583.4	38	164.2	35.5	3	18.2	0.7	0	0	0	0 R	E
529639.6	6838887	6536.7	38	1.3	13.2	1	16.7	19.6	77.5	93.1	11.1	27.4 S	B?
529811.2	6838499	6524.6	38	1.3	8.6	0	19.9	25.9	75	99.4	7.8	24.1 T	B?
530418.5	6836898	6480.4	38	1.7	13.3	0	20.1	20.2	30.1	26.8	2.7	8.5 U	B
531079.4	6835242	6433.4	38	3.5	41.2	0	9.7	4.4	39.4	47.3	6.1	14.5 V	S
532156.6	6832415	6347.8	38	1.3	11.2	1	17.6	21.9	95.4	106.5	8.3	30.5 W	S?
532428.1	6831724	6327.5	38	1.4	7.4	2	23.6	28.9	49.7	60.3	1.3	12.1 X	S?
532539.1	6831434	6318.9	38	1.4	7.5	1	23.5	28.6	45.4	98.1	0	7.8 Y	S?
533137.7	6829903	6276.1	38	0.9	6	0	16.1	27.3	24.5	76.5	0.7	0.3 Z	B?
533246.4	6829653	6268.4	38	1.6	9.3	0	23.2	25.8	57.3	55.6	6.8	13.1 AA	B?
533373.6	6829333	6258.3	38	1.1	4.8	2	21.2	32	86.4	122.8	7.2	29.4 AB	B?
534304.5	6826867	6182.7	38	0.5	0	0	14.8	44	106.2	170.7	0.8	36.8 AC	B
534526.3	6826344	6166.7	38	1.1	3.6	1	23.3	35.2	129.7	206.5	7.4	43 AD	B?
535136.1	6824771	6122.8	38	1	0	0	30.4	54.9	93.8	122.2	18.3	34 AE	B

535475.3	6823874	6097.7	38	0.3	1.6	0	3.8	15.2	0	43.9	3.1	9.7 AF	B?
535539.2	6823700	6092.8	38	1.1	11.5	0	15.2	20.7	35	38.7	3.3	9.7 AG	B?
536028.7	6822383	6051.3	38	0.7	3.5	0	13.1	27.3	83.5	192.7	7.6	32.8 AH	B?
536168.4	6822012	6039.9	38	0.7	9.4	3	9.9	19.3	11.2	31.7	2.8	3.5 AI	B?
536211.2	6821897	6036	38	1.6	15.6	0	17.7	17.5	20.6	63.9	2.5	8.7 AJ	B?
536491.6	6821128	6000.9	38	0.7	3.9	3	13.8	27.7	99.1	166.8	6.5	31.9 AK	S?
536653.6	6820749	5987.1	38	0.8	5.1	1	15.2	27.8	57.2	88.6	8.7	22.1 AL	B?
537016.1	6819873	5958.6	38	2	7.5	0	30.6	30.3	144.6	147.8	19.4	49.5 AM	B
LINE 1	330												
520564.4	6863397	4386.1	38	1.1	0	0	14.6	19.9	45.7	51.5	7	16.5 A	B?
520874.8	6862602	4405.8	38	1.2	0	0	25.5	36.7	42.1	96.9	0	15.1 B	B
521001.6	6862266	4414.7	38	0.6	0	0	8.7	19.4	43	57.4	5.6	13.1 C	B
521143.2	6861881	4425.2	38	1.1	0.6	0	13.8	18.9	55.6	100.1	4.1	19.9 D	B
521635.1	6860608	4455.2	38	1.9	29.1	0	7.3	4.9	16.6	32.4	0	3.6 E	B
521744.3	6860360	4461.1	38	0.7	0	0	10.2	18.3	47.9	57.1	5.7	16.2 F	B
521787.8	6860266	4463.4	38	29.7	18.3	0	20.5	2.5	47.9	57.1	0	16.2 G	B
522086.5	6859543	4480.7	38	2.4	27.9	0	8.5	5	9	6.3	14.3	2.4 H	B
522150.3	6859369	4484.9	38	1.6	0	0	30.2	34.9	106.7	156.2	14.3	41.8 I	B
522305.9	6858917	4495.5	38	43.8	9.9	0	31.9	3.4	88.3	95.8	1.9	0 J	B
522372.1	6858737	4499.7	38	98.5	6.8	0	39.6	2.5	87.4	95.8	12.7	29.2 K	B?
522589.9	6858183	4512.7	38	2.6	20.3	0	11.7	7	23.9	9.5	5.5	6.9 L	B
522722.4	6857869	4520.2	38	3.5	13.9	2	17.4	9.2	42.5	38.2	4.9	11.9 M	B
522895.1	6857434	4530.7	38	2	0	0	28.5	27	37.3	71.1	1.4	12.7 N	B?
522977.1	6857215	4536.1	38	5.3	23.2	0	13.6	5	61.6	27.7	8.5	16.5 O	B?
523090.8	6856921	4543.7	38	623.1	25.3	10	18.1	0.3	83	70.3	3.4	22.5 P	B?
523210.6	6856596	4552.8	38	2.3	0	0	59.1	61	198.7	203.9	44	74.1 Q	B?
523380.5	6856155	4573.3	38	0.1	0	85	0.8	9.9	1.5	39.3	1.3	5.2 R	B?
523531.2	6855713	4588.4	38	0.6	0	0	19.9	55.8	97	217.8	4.4	35.7 S	B?
523539.3	6855689	4589.2	38	0.6	0	10	19.9	55.8	97	217.8	4.4	35.7 T	D
523643.7	6855449	4597.9	38	1.1	0	151	31.1	55.8	188.8	283.8	12.5	65.8 U	B?
523772.9	6855164	4618	38	0.2	0	0	4.2	25.7	20.3	5.1	0.7	11.4 V	S?
524031.6	6854543	4639.4	38	1	0	0	32.1	61	93.4	101.3	2.6	22.7 W	D
524179.9	6854154	4648.9	38	0	0	321	0.2	21.1	0.4	51.1	3.7	10.3 X	B?
524380.3	6853652	4661	38	0.5	0	0	7.9	19.3	52.2	109.3	3.3	21 Y	S
524437.6	6853515	4664.3	38	1.2	0	201	22.6	32.4	52.2	16.3	3.3	3.1 Z	S?
524561.9	6853203	4671.7	38	1.1	0	94	33	60	117.9	208.2	6.3	40.3 AA	S?
524681.1	6852856	4680.2	38	1.1	0.9	0	14.5	19	90.1	128.5	5.4	24.5 AB	S?

524857.9	6852348	4692.3	38	1	8	57	9.7	12.4	60.3	99.7	4.4	16.8 AC	S
524947.5	6852112	4698	38	2.2	5.7	0	19.7	15.5	85	72.9	9.3	25.3 AD	S?
525165.4	6851575	4712	38	1.2	8	0	11	12.8	10.5	13.4	0	2.3 AE	S?
525277.6	6851291	4719.8	38	1.6	4.8	15	16.2	16.1	29.9	59	1.8	10 AF	B?
525361.3	6851054	4726.5	38	0.5	13	0	4.3	7.9	0.7	0	0.7	0 AG	D
525652.7	6850295	4751.8	38	0.7	4.9	0	7.5	12.9	7.5	30.5	0.9	2.9 AH	D
525807.4	6849963	4762.2	38	0.6	5	0	6	11.7	9.8	18.4	1.5	3.4 AI	B?
525927.4	6849676	4769.5	38	0.3	0	0	5.4	21.2	20.9	60.6	1	7.1 AJ	S?
526205.6	6848938	4787	38	0.4	0	22	6.2	21.3	18.3	104.6	0.2	14.9 AK	S?
526780.4	6847403	4833.2	38	0.4	0	3	6.5	18	13	36.3	1.9	5.2 AL	S?
528050.1	6844199	5038.3	38	0.3	0	0	3	10.1	0	29.1	0.4	4.3 AM	S?
529523.6	6840336	5233	38	215	359.8	0	0	0	0	0	0	0 AN	B?
529621.1	6840078	5239.9	38	999	29	0	16.1	0	96.9	104.9	4.2	31.4 AO	B?
530208	6838587	5280.1	38	96.4	20.8	1	19.7	1.1	126.7	126.1	19.2	44.1 AP	B
530427.6	6837995	5296.1	38	0.5	0	0	9	25.9	52.9	75.5	4.7	18 AQ	B
530510.9	6837801	5301.5	38	0.4	0	3	6.5	20.6	60.9	105.7	2.7	21.1 AR	B?
530766.3	6837099	5319.8	38	1.2	0	0	25.6	38.3	121.6	177.2	13.6	43 AS	B
531101.9	6836267	5341	38	1	0	0	22.1	39.1	160.7	240.6	12.7	54.7 AT	B
531544.6	6835106	5369.5	38	0.9	2.4	0	11	16.2	42.3	61.5	3.5	14.9 AU	S?
531818.8	6834364	5390.6	38	0.4	0	0	5.6	15.3	26.2	91.6	1.6	11.6 AV	S
531975.2	6834026	5400.6	38	0.4	1.8	0	4.4	10.7	13.5	36.4	1.9	5.5 AW	S
532101.4	6833719	5411.6	38	0.6	0	0	8.5	17.5	33.3	51.1	1.9	10.1 AX	S
532564.4	6832492	5449.6	38	0.9	0	0	16.2	28.9	78	127.5	6	25.3 AY	S
532810.8	6831857	5465.7	38	1.4	0	3	35.7	49.4	86.1	168.3	2.1	29.5 AZ	S?
533046.4	6831229	5481.3	38	1.1	0	2	17.5	24.7	42.2	57.2	3.6	15.6 BA	S?
533610.3	6829809	5519	38	1.9	0	0	27	26.9	72.9	75.1	7.3	23.2 BB	B?
533775.7	6829347	5531.1	38	1.9	0	12	42.3	47	23.4	45.1	3.8	4.9 BC	D
533823.3	6829244	5534.1	38	0.6	0	8	9.9	20.5	24.9	37.5	0	3.7 BD	D
534301.9	6827996	5574.3	38	1.1	0	0	24.8	39.6	61.2	128.3	5.6	25.8 BE	B?
534636.3	6827059	5600.5	38	1.8	5.8	0	16.9	15.4	91.8	94.4	0	28.6 BF	S?
534824.2	6826665	5610.1	38	0.9	0	0	13.1	19.9	65.5	103.4	7.1	21.7 BG	B?
534992	6826212	5620.8	38	1	0	2	28.3	52	102.6	187.4	9.6	37.7 BH	B?
535140.1	6825842	5630.2	38	0.3	0	0	6	28.1	48.1	151.9	0	18.4 BI	B
535427.1	6825086	5650.4	38	1.1	0	0	20.1	29.7	68.8	80.5	9.5	24.5 BJ	B
535879.5	6823950	5678.6	38	999	40.3	0	10.5	0	14.1	0.9	3.3	2.2 BK	B?
535955.8	6823760	5683.7	38	0.6	0	1	10.7	24.3	20.2	0	6.1	6.4 BL	B?
536020.1	6823573	5689.1	38	0.6	7	0	6.3	11.2	62	87.9	0	19.1 BM	B?

536236.9	6823022	5705.6	38	0.5	0	0	11.4	31	92.2	0	0	0 BN	B?
536395.5	6822628	5716.7	38	0.8	0	0	12.9	23.8	37.7	60.9	5.7	12.7 BO	B?
536641.7	6821909	5740.3	38	0.3	0	0	5.9	21	51	117.7	1.9	18.7 BP	S?
536970.3	6821063	5794.4	38	0.7	0	3	14.2	31.7	86.1	132	3.8	26.4 BQ	B?
537217.7	6820374	5816.5	38	1.1	0	0	22.4	34.4	92.7	191.6	5.7	34.9 BR	B
537387.9	6820008	5827.6	38	1	0	0	37.1	80.2	161.7	266.4	20.9	62.5 BS	B
LINE 1	340												
520598.5	6864448	4246.6	38	1.1	0	0	32	53.6	93	150.9	5.6	31.5 A	B?
520734.5	6864086	4235.7	38	1.7	21.1	3	14.5	12.8	31.2	40	3.5	0 B	B?
520979	6863450	4216.2	38	1.3	0.7	0	31.4	45.6	47.8	107.8	3.8	18.1 C	B
521138.5	6863068	4203.8	38	0.6	5.8	0	9.7	21.3	42.6	72.5	6.8	16.9 D	B?
521864.7	6861190	4142.8	38	0.6	0	0	13.3	33.3	63.1	123	6.2	24.7 E	B?
522012.7	6860855	4132.2	38	1.8	18.4	0	16.5	15	44.4	65.2	2.7	13.9 F	B?
522135.6	6860534	4121.6	38	1.2	7.7	1	19.9	26.9	114.8	127.6	11.6	38.4 G	B?
522380.6	6859845	4099	38	999	33.5	1	22.3	0	59.3	102	8.4	20.2 H	B?
522457.8	6859640	4092.7	38	1.3	8.6	2	19.9	25.7	27.6	57.2	3.9	9 I	B?
522518.9	6859475	4087.7	38	3.6	23.5	1	19.7	10.5	23.9	24.3	0.3	5.1 J	B?
522680.3	6859096	4075.9	38	3.6	10.2	0	38.3	24.5	105.8	100.1	19.3	36.8 K	B?
522853.2	6858622	4061.9	38	1.4	5	0	26.9	34	73.7	116.5	2.9	23.5 L	B?
523085.7	6858055	4044.9	38	1.3	3.3	0	26	37	171.7	220.1	13	54.9 M	B
523251.2	6857621	4032	38	2.9	3.5	0	50.8	41.6	76.7	108.4	3.2	21 N	B?
523372.5	6857313	4023.1	38	2.2	8.4	0	31.2	28.4	79.8	60.4	16.9	29.3 O	B
523449.9	6857083	4016.6	38	2.6	10	0	32.7	25.5	99.6	97.5	0	0 P	B
523598.3	6856694	4005	38	5.6	0	0	105.5	61.5	372.8	201.7	66.8	126 5 Q	B
523989.6	6855692	3969.9	38	1.1	5.9	0	19.5	29.3	252.1	239.8	31	83.5 R	B?
524032.6	6855622	3966.9	38	1.7	0	0	48.5	63.8	252.1	239.8	31	83.5 S	B?
524234.8	6855060	3941.2	38	0.8	0	190	21	44.8	36.3	88.6	1.9	9.9 T	S?
524373.9	6854734	3928.8	38	2.3	13.3	0	25.3	20.5	99.4	111	5.4	28.3 U	S?
524473.8	6854470	3919.5	38	0.9	0	0	29.3	60.3	55.5	127.1	2.1	19 V	S?
524908.3	6853367	3882.2	38	1	0	0	35.8	69.2	116.4	176.6	6	37.6 W	S
525159.8	6852727	3864.9	38	0.9	7.5	91	15	24.6	73.3	138.2	1.5	27 X	S?
525202.9	6852612	3861.9	38	0.7	0	0	19.4	45.7	73.3	138.2	2	27 Y	S
525448.1	6851992	3846.3	38	0.7	18.7	48	7.1	11.8	69.7	86.9	7	23 Z	B?
525602.3	6851562	3835.2	38	1.7	28.2	0	10.9	8.9	30.2	19.4	3.3	7.7 AA	B?
526095.6	6850258	3792.9	38	0.2	5.9	13	2.2	9.7	36.6	81.7	1.9	14 AB	S?
526928.8	6848106	3719.5	38	0.4	3.8	0	6.8	18.9	0.7	17.7	0.6	0 AC	B?
527468.7	6846702	3632.9	38	0	0	0	3	9.6	7.4	5.6	0.5	2.2 AD	S?

527614.4	6846379	3617.9	38	0.2	2	6	3.2	13.5	14.3	39.2	0.7	5.7 AE	S?
527752.2	6846026	3603.7	38	0	0	1	4.1	11.9	4.8	8.7	1.4	1.5 AF	S?
527858.5	6845626	3586.2	38	0.4	6.1	0	6	16.4	5	32.1	1.9	4.9 AG	S
527996.4	6845284	3572.1	38	0.4	16.5	0	3.9	9.3	0	28.2	1	3 AH	S
528229	6844658	3545	38	0	0	0	3.6	11.7	3.9	0	0.6	3.1 AI	S
528345.6	6844335	3520.4	38	0.5	35.4	0	3	5.1	14.7	15.2	0.7	2.7 AJ	S
529977.1	6840269	3255	38	0.1	27.3	92	0	27.6	28.7	65.4	1.1	16.5 AK	B?
530123.4	6839926	3242.8	38	1.4	9.2	0	21.5	25.4	50.5	51.6	6.3	13.1 AL	B?
530237.1	6839641	3233.3	38	1.7	7.6	0	27	29.1	86.7	69.2	13.5	28.6 AM	B?
530694.9	6838451	3194.8	38	0.9	14.9	1	10.9	16	72.8	87.4	7.6	23.7 AN	B?
531116	6837350	3161.5	38	1.3	17	0	13.6	15.5	39.8	47.6	1.9	11.5 AO	B
531234.4	6837007	3151.7	38	1.8	22.6	0	14.1	11.8	59.5	40.8	7.2	18.7 AP	B
531356.8	6836678	3142.3	38	999	44.6	0	14	0	14.4	17.3	0.7	4.4 AQ	B
531766.6	6835675	3112.3	38	0.7	1.7	1	13.4	29.5	39.8	66.3	2.7	12.5 AR	S
532189	6834540	3073.9	38	0.4	0	0	9.3	29.5	34.7	82.8	2.3	15.5 AS	S
532478.1	6833825	3045.5	38	0.4	7.6	0	5.1	14.2	18.8	42.7	2	7.3 AT	S?
533054.6	6832280	2992.4	38	0.8	14.3	7	9.9	15.8	37.5	62.6	1.7	11.3 AU	B?
533315.4	6831639	2973.2	38	1.1	10.4	0	16.1	22.1	59.3	87.4	5.7	20.9 AV	B?
533943.9	6829928	2922.4	38	1.5	6.9	0	24.8	29.9	84.6	117.2	9	30.1 AW	S
533998.4	6829812	2918.8	38	0	0	0	1.3	23.7	84.6	117.2	9	30.1 AX	S
534696.1	6828055	2862.8	38	1.3	14.1	0	15.9	18.4	53.4	72.2	2.6	16.7 AY	S
534869.9	6827584	2846.3	38	0.9	12.2	0	12.2	18.6	71.4	73.9	8.2	23.4 AZ	B?
535012.4	6827260	2834.3	38	1.7	0.4	0	41.3	50.4	72.1	130.9	10.7	31.2 BA	B?
535127.4	6826937	2823.2	38	1.3	0	0	34.8	52.4	164	230.4	15.1	56.3 BB	B
535252.2	6826614	2812.3	38	0.9	0.4	0	22.8	41.2	96.4	129.4	10.3	33.7 BC	B
535416.6	6826157	2797.3	38	1.2	8.3	1	19.7	26	76.2	153.5	3.6	28.4 BD	B
535541.8	6825854	2786.7	38	0.9	0	1	24.6	49.7	105.2	178.2	0	37.1 BE	B?
535660.5	6825608	2778.9	38	1	0	1	26	44.6	99.4	192.9	5.5	37.5 BF	B?
535830.6	6825142	2765.6	38	1.8	7.1	0	29.2	30.5	77.7	96.3	12.3	25.7 BG	B
535927	6824874	2757.7	38	1	4.7	0	18.5	30.5	89.1	119.3	1.4	31.9 BH	B
536225.9	6824074	2732.6	38	1.8	9.9	0	25.3	25.2	82.8	100.5	9.4	27.8 BI	B
536361.4	6823802	2724.3	38	1.2	0	0	45.6	80.8	65.5	128.4	2.7	22.5 BJ	B?
536493	6823516	2714	38	0.3	0	1	5.8	28.7	58.7	147.6	2.5	24.9 BK	S?
536641.3	6823038	2697.7	38	1.1	14.4	1	13.8	17.6	34.6	74.9	3.5	10.1 BL	D
537143.4	6821771	2653.2	38	0.4	16.5	12	3.6	8.9	11.2	12.9	0.9	2 BM	S?
537405.4	6821116	2606.7	38	1.5	9.1	18	22.6	25.8	47.7	104.3	0	17.7 BN	S?
537453.8	6820955	2599.7	38	0.9	12.4	15	11.5	18.1	2.2	73.4	3.4	16.7 BO	S?

537623.4	6820592	2584	38	1.5	0	0	41.3	56.6	81.8	128	3.3	23.9 BP	B?
537676.3	6820421	2578.3	38	2.4	1.1	4	51.4	50.1	74.2	79.6	8	17.4 BQ	B?
537812	6820051	2567.1	38	1.5	0	0	37.5	50.6	161.3	162.9	23.1	54.6 BR	B?
LINE 1	350												
525611.4	6852535	7902.7	22	1.9	18.6	15	7.6	5.1	46.4	67.8	3.2	14.7 A	B?
525884.2	6851961	7888	22	2.1	4.9	21	13.1	9.6	55.3	31.8	7.6	16 B	B?
526006.4	6851706	7880.6	22	0.6	0	0	9.4	21.1	0	0	4.2	0 C	S?
526946.1	6849185	7799.3	22	0	0	4	4.9	6.4	0.4	16.3	1.8	2.1 D	B?
530296.1	6840562	7364	22	0.7	0	29	11.1	23	134.6	177.6	0	44.5 E	B?
530455.4	6840197	7354.6	22	2.5	0	2	17.9	12.4	45.2	33.7	0	15.2 F	B
530589.8	6839801	7344.7	22	2.7	0	0	19.9	13.4	111.3	89.2	13.2	32 G	B
530863.1	6839114	7327.7	22	1.2	0	0	11.3	12.8	66.1	74.7	12.1	22.8 H	B
531309.9	6837964	7299.3	22	2	0	0	19.5	16.8	61.4	59.9	9.2	23 I	B
531417.6	6837660	7291.9	22	0.8	0	0	10.3	17.8	17.2	43.7	3.4	6.4 J	B
531700.1	6836897	7273	22	0.9	0	0	12	17.8	62.6	44.4	13.2	21.7 K	B
531849	6836501	7263.4	22	0.5	0	0	8.1	18.7	57.8	54.2	10.2	18.3 L	B
532142.7	6835813	7246.4	22	0.9	0	0	11.9	19	34.1	49.8	5.9	14.3 M	B
532431.8	6835065	7227.2	22	0.5	0	0	7	16.2	42.6	88.2	3.5	15.1 N	S
532803.8	6834060	7200.5	22	0.6	0	12	9.5	21.7	36.8	96.7	2.2	15.4 O	S
533203.3	6833051	7166.8	22	0.8	0	5	10.1	16.7	82.5	107.9	6.9	27.6 P	S?
533384.7	6832580	7155.1	22	0	0	0	0	18.2	83.2	125	5.6	25 Q	S?
534348.8	6830091	7092.7	22	0.9	0	0	21	40.8	152	195.7	14.7	49.3 R	B
534420.9	6829913	7087.7	22	0	0	0	20.5	0.2	2	1	0.8	0.3 S	B
535107.3	6828224	7037.1	22	181.6	7.3	0	24.3	0.9	51.7	88	0.5	16.9 T	S?
535187.8	6827991	7029.9	22	3.1	12.6	0	11.7	6.2	0.4	0.8	0	0.2 U	B?
535281.1	6827710	7022	22	0.9	0	0	16.8	30.5	53	53	0	16.5 V	D
535399	6827383	7012.9	22	1.6	0	0	31.1	37	86.4	108.5	1.1	27.1 W	B
535673.8	6826691	6995.7	22	1	0	1	18.9	29.5	69.4	107.6	8.4	23.8 X	B
535820.9	6826299	6985.5	22	1	0	0	25	43.4	59	110.8	4	20.3 Y	B
536220.4	6825227	6957.6	22	13.6	10.2	0	18.5	3.8	98.6	97.3	19	34.7 Z	B
536710.1	6823953	6924.6	22	1.4	0	0	31.3	43.6	41.8	41.2	1.8	3.6 AA	B?
538150.5	6820350	6778.4	22	1.8	0	1	31	33.7	104.7	184.8	6	34 AB	S?
538272.6	6819965	6762.6	22	7.6	16.1	0	13.3	3.8	73	125.2	2.2	23.3 AC	S?
LINE 1	355												
521402.8	6863478	4242.9	50	1.3	6.5	0	16.5	19.8	64.3	85.7	7.5	18.7 A	B
521567.9	6863064	4256.8	50	0.7	4.6	0	10.4	18.5	51	89.7	6.5	20.8 B	D
522429.5	6860819	4331.7	50	3.5	25.4	0	13.7	6.9	47.8	48.7	5.6	16.7 C	S?

522644.4	6860215	4351.6	50	0.7	6.9	0	8.4	15.4	113.6	112.1	15.8	33.6 D	B?
522858.8	6859797	4365.5	50	4.8	8.5	0	33.9	16.8	5.9	24.1	0	0.2 E	D
523132.3	6859192	4385.2	50	2	21	0	12.5	9.3	57.1	21.2	11.8	21.6 F	B?
523169.4	6859080	4388.9	50	5.4	13.3	0	27.6	11.9	68	63.7	0.3	23.5 G	B?
523970.3	6857073	4465.1	50	1.2	19.3	5	9.4	9.9	0	30.9	0	0 H	B?
524030.1	6856745	4476.3	50	6.2	8.6	0	37.1	15.4	142.9	84.7	16.1	41.9 I	D
524138.8	6856428	4487.7	50	1.7	16.2	10	13.3	11.9	42.7	60.8	0	15.3 J	B?
524377.4	6855823	4511.3	50	0.1	0	0	2.9	24.3	234	174.5	23.6	68.7 K	B?
524523.1	6855422	4530.8	50	1.1	10.5	0	11.8	15.1	0	88.4	0.6	14.4 L	S?
524662.9	6855007	4547.3	50	1.7	0	0	33.5	39.4	371	252.4	32.8	104 5 M	B?
524789	6854720	4557.2	50	1.7	15.6	37	13.6	12.3	119.7	44.4	15.9	33.4 N	B?
525704.4	6852424	4635.8	50	1.3	22.2	0	8.6	8.6	24.6	24.5	2.9	6.8 O	B?
LINE 1	360												
521148.8	6865290	719.7	38	0.9	0	0	21.4	39.8	49.1	93.4	8.2	17.4 A	B
521242.3	6865077	725.2	38	2.5	7.2	0	26.2	19.9	49.8	43	8.7	13 B	B
521553.6	6864282	745.4	38	0.9	0	0	21.3	38.4	128.3	180.7	9	42.3 C	S?
521804.8	6863593	762.5	38	0.9	5.3	0	12.5	19.1	8.1	103.7	1.3	3.6 D	B?
521846.2	6863479	765.4	38	0.6	4.1	0	7.5	15.8	72.6	103.7	4.4	22.1 E	S?
522512.3	6861764	807.3	38	0.8	0	0	16.6	31	98.7	169.4	7	35.3 F	B
522634.9	6861453	815	38	1.9	12.7	0	16.6	14.3	53	73.3	5.9	18.7 G	B
523155.4	6860074	848.6	38	0.9	3.3	0	13	21.1	66.2	107.7	3.6	22.9 H	B
523571.3	6859073	871.5	38	15	38.5	31	10.8	1.8	21.8	37.6	1.3	0.7 I	B?
523677.1	6858785	878.1	38	1.2	0	0	21.9	31.9	87	79.8	11.3	27.2 J	B?
523951.6	6858039	895.4	38	1.4	0	6	32.3	44.9	90.4	178.6	7.8	23.8 K	S?
524187.2	6857450	910.3	38	64.8	17	43	30.1	2.4	54.2	41.8	3.7	28.3 L	B?
524319.4	6857077	920.7	38	1.2	1.1	0	19.4	26.8	94.1	116.2	7.4	31.6 M	B?
524339	6857027	922.1	38	1	0	0	17.3	27.3	94.1	116.2	7.4	31.6 N	B?
524522	6856602	933.8	38	0.8	0	0	28.4	64.1	147.9	146.1	30.2	50.3 O	B
524705.3	6856111	948.3	38	2.2	0	0	47.8	47.9	170.9	237.1	3.7	60.6 P	D
524746.8	6855971	952.8	38	0.3	50.5	238	1.2	2.1	170.9	237.1	18.4	60.6 Q	B?
524897	6855617	965.1	38	5	0	90	83.9	50.4	230.1	160.6	25.8	72.2 R	B?
524980.2	6855425	972.2	38	1.2	3.2	0	18.3	23.7	53.2	74.2	3.7	19.1 S	B?
525255.3	6854678	993.4	38	1.7	0.4	46	27.5	30.6	135.9	106.1	20.6	41.8 T	S?
525979.4	6852814	1043.8	38	1.1	3.6	41	16.3	22.5	50.6	63.3	3.3	14 U	S?
526247.5	6852105	1064	38	2	10.1	0	19.4	16.7	19.6	30.4	3.7	5 V	B?
526350	6851778	1073.4	38	0.4	12.3	0	3.6	8.4	19.5	36.6	1.4	6.5 W	S
530903.9	6840074	1767.8	38	1.7	17.1	0	13	11.3	59.4	74.2	8.4	20.3 X	B

531241.5	6839232	1788.2	38	0.7	5.5	0	10	17.4	82.6	103	7.4	26.8 Y	B
531472.6	6838565	1803.8	38	1.9	3	0	26.2	26	103.5	115.2	13.1	34.7 Z	B?
531872.7	6837590	1827.8	38	1.8	12.2	0	16.6	14.7	108.8	76.9	11.9	33 AA	B?
532113.9	6836970	1842.4	38	1.5	3.7	0	21.8	24.1	60.1	69.4	0	21.1 AB	B?
532394.5	6836269	1859.9	38	1.1	3.7	0	16.7	22.6	54.7	37.6	8.3	16.4 AC	B?
532567.6	6835834	1871.8	38	1.2	9.5	0	13.6	16.2	67.2	112.9	3.7	24.1 AD	B?
533380.2	6833726	1933.6	38	0.5	0	0	7.8	21.6	22	72.7	0.4	11 AE	S?
533574.4	6833211	1948.9	38	1.3	0	0	37.2	55.5	146.2	207.1	9.3	46.7 AF	S?
535543.1	6828155	2085.8	38	0.9	1.8	1	13.9	23.1	49.9	79.2	0	17.2 AG	B?
535955.8	6827062	2112.8	38	0.5	0	0	11.2	31.1	73.8	175.9	9.9	30.3 AH	B?
536626	6825323	2154.5	38	999	30.9	0	18.8	0	86.3	53.6	15.7	25.8 AI	B?
537051.9	6824194	2183.8	38	1.8	8.1	5	19.5	18.6	118.1	127	11	37.4 AJ	B?
537565.9	6822899	2219.5	38	0.8	5.1	0	10.8	18.2	12.1	24	5	6.4 AK	B?
537605.6	6822720	2225.8	38	0.1	20.8	0	0	8.6	19.6	47.7	3.7	5 AL	B?
537645.2	6822602	2230.5	38	0.1	20.8	8	0	2.4	19.6	0	2.1	5 AM	B?
538120.5	6821455	2331.4	38	0.5	15.4	0	4.5	8.8	26	0	0.4	0.6 AN	B?
538298.2	6820965	2357.1	38	2.2	29.8	0	9.4	6	19.6	0	1.3	0 AO	B?
538684.1	6820065	2407.7	38	0.9	0	0	19.2	36	134.6	155.1	10.9	42.2 AP	B?
LINE 1	370												
520845.9	6867159	8480.6	36	0.1	24	1	0	36.9	70.6	154.4	5.7	28.8 A	B?
520865.6	6867097	8478.7	36	0.8	0	1	22	52	70.6	154.4	5.7	28.8 B	B?
521008.2	6866743	8467.3	36	31.2	42.6	40	10.9	1.1	68.9	120.8	3.5	25.5 C	B?
521514.3	6865446	8419.8	36	1.8	1.3	0	33.8	36.6	80.1	109.2	5.6	26 D	B
522165.7	6863743	8362.5	36	0.7	0	0	14.9	32.3	34.5	69.2	1	9.8 E	S?
523094.4	6861348	8284.2	36	1.7	0	0	40	47.6	131.6	172.6	18.8	42.9 F	B?
523716.8	6859714	8233.8	36	87.5	30.1	7	19.1	1.1	56.2	90.7	4	18.4 G	B?
523806.3	6859504	8227.3	36	1.4	6	0	20.8	25.1	104.4	160.8	5.4	35 H	B?
524007.6	6858977	8211.5	36	1.4	0	0	29.5	40.8	90.7	84	15.3	28.1 I	B?
524068.6	6858819	8206.5	36	2.8	9.2	24	29.4	21.4	0.7	96.5	0	28.1 J	B?
524256.4	6858349	8190.8	36	999	25.8	0	27.3	0	202.6	125.3	25.5	65 K	D
524416.3	6857856	8176.2	36	0.8	0	39	19	36.9	54	105.1	2.3	20.9 L	D
524578.8	6857449	8162.9	36	0.7	0	3	17.8	45	101.4	145.2	7.2	33.8 M	B?
524807.8	6856892	8144.3	36	999	5.3	0	88	1.1	266.5	280.3	38	83.8 N	D
524963.1	6856545	8133.8	36	2.3	5.3	0	32	28	166.4	172.8	13.7	49.5 O	B?
525676.4	6854687	8067.7	36	2.9	8.1	0	31.8	23	227.4	151.6	21.1	71 P	S?
526745.4	6851964	7982.7	36	0.4	0	16	6.6	23	0.7	69.8	0	0.1 Q	B?
528363.3	6847752	7757.1	36	0	0	1	4.4	19.5	4.5	26.1	0.9	3.3 R	B?

529470.5	6845035	7593.5	36	0	0	0	6.5	14	8.7	25.1	0.5	4.1 S	S?
530150.8	6843202	7400	36	0	0	32	6.2	5.9	6.3	8.1	1.5	1.6 T	M
530573.6	6842086	7352	36	0.3	0	0	4.9	16.9	23.9	76.5	1.2	11.4 U	S
530774.6	6841552	7335.8	36	1.2	14.3	0	12.6	14.9	18.9	34	2.7	6.4 V	S?
532263.1	6837749	7226.2	36	1.3	4.4	0	21.3	27.4	128.9	119	12.6	41 W	B?
534941.6	6830764	7023.2	36	0.7	6.9	0	9.8	18.6	29.3	79.3	4.8	10.3 X	S?
535179.6	6830129	7005.7	36	0.4	0	0	7.4	26.3	89.3	108.2	10	28.3 Y	B?
536017.3	6827988	6937	36	1.4	5.6	0	21.8	25.9	131.2	142.2	12.2	42.1 Z	B?
536117.4	6827752	6929.3	36	1.1	0	0	47	95.7	136.7	266.3	8.2	51 AA	B?
536606.5	6826561	6891.7	36	0.9	0	0	23.8	48.3	43.6	154.3	1.9	20.5 AB	B?
537099.9	6825226	6853	36	2.2	0	0	43.2	43.1	147.8	117.1	26.9	51.4 AC	B?
537363.5	6824542	6833.4	36	1.3	0.1	3	26.5	37	96.1	92.9	9.6	28.8 AD	S?
538194.4	6822496	6762.7	36	0.6	9.8	33	7.4	14.7	6	46.2	0.7	5.7 AE	S?
538811	6820909	6667	36	0.7	0	0	17.3	39.7	65.6	107.4	5.2	21.9 AF	S?
538997.1	6820377	6644.5	36	1.8	6.6	0	24.9	25.2	99.2	107.2	11.4	33.8 AG	S?
LINE 1	380												
520436.1	6869162	4745.9	36	0.8	0	0	22.2	51.3	94.1	181.4	7.8	35.7 A	B?
520827.4	6868339	4766.1	36	1	9.2	3	17.1	27.2	39.9	62.1	2.8	12.5 B	B?
520940.3	6868049	4773.3	36	1.5	11.5	0	22.5	26.4	43.5	80.9	5.1	15.3 C	B?
521379.4	6866864	4803.4	36	1.3	22.2	0	12.4	13.6	38.9	71.5	1.6	14.3 D	B?
523245.7	6862069	4918.1	36	1	2.6	0	24.2	43.6	89.4	125.8	6.3	28.5 E	B?
523866.9	6860421	4958.5	36	1.3	13.9	0	17.5	21.8	66.1	102.4	3.6	21.3 F	B
523917.8	6860319	4961.2	36	1.2	9.8	0	20.1	28	46.7	76.3	8.9	15 G	B
524195	6859699	4977.1	36	2.2	7.4	0	39	37.5	134.3	141.1	15.6	45.3 H	B?
524232.9	6859604	4979.5	36	3.2	18	0	27.7	17.6	134.3	147.6	15.6	45.3 I	B?
524408.2	6859135	4991.9	36	2.3	6.3	0	42.9	41	3.9	5	0	0.9 J	D
524600	6858612	5005.1	36	3.3	5.9	0	57.1	42.8	180.5	156.3	11	45 K	B?
524770.8	6858131	5017.4	36	0.9	9.4	78	15.4	25.9	84.8	77.2	6.5	0.9 L	B?
524933.9	6857602	5034.9	36	0.9	0	378	27.6	57.6	64.3	160	4	27.6 M	S?
525157.8	6857126	5047.9	36	4.5	0	0	118.8	86.1	412.5	193	71	140 7 N	B
525279.3	6856873	5054.7	36	3	19.6	14	24.9	16.2	88.5	73.8	4.8	32 O	B?
525382	6856591	5063.2	36	2.1	8.4	102	35.6	34.8	125.6	137.4	6.9	39.2 P	B?
525544.8	6856169	5076.7	36	11.7	33.1	0	19.5	4.5	156.7	94.4	16.3	45 Q	S?
526098.2	6854660	5119	36	3	20.8	189	23.5	15	168.1	8.9	17.4	48.6 R	S?
526149.9	6854536	5122.2	36	1	0	0	31	57.5	168.1	139	17.4	48.6 S	S?
533993.7	6834460	6018.5	36	1.1	17.1	0	12.9	17.3	41.3	92.1	1	14.9 T	S
534492.3	6833132	6056.7	36	1.1	2.2	4	29	47.8	75.9	120.8	3.9	23.4 U	B?

535105.4	6831457	6098.1	36	1.7	17.8	0	18.6	18.2	32.1	58.9	2.5	7.7 V	S?
535270.4	6831099	6107.9	36	1	12.4	0	15.1	22.5	34	67.5	3	11.8 W	S
535304.8	6831015	6110.2	36	0.1	30.1	0	0	21.7	34	67.5	3	11.8 X	B?
536619.4	6827601	6213.2	36	1	9.2	0	17.1	27.3	91	131.9	7.2	29.7 Y	S?
536748.8	6827244	6223.8	36	0.7	0	0	25.4	67.7	134.7	268.7	10.5	53.3 Z	B?
537160.1	6826267	6252.9	36	1.6	18.6	0	17.4	17.2	49.5	50.3	5.5	15.7 AA	D
537512.1	6825343	6279.2	36	1.9	0	0	63.3	80.4	230.8	308.4	24.4	77.6 AB	B
537786.4	6824581	6300.4	36	1.4	8.9	1	24.3	31	82.6	88.1	6.2	25.4 AC	B?
538033.8	6823937	6319.2	36	0.3	0	0	6.5	32.7	78.3	147.5	4.2	28.5 AD	S?
538385.6	6823024	6348.4	36	7.4	37.3	42	15.2	4.5	78.3	166.7	0	26.8 AE	S?
538486.4	6822740	6361	36	0.6	5.5	0	10.8	25.3	0	26.1	1.2	4.6 AF	D
538568	6822518	6371.2	36	0.4	18.4	0	3.9	9.5	32.6	33.6	0	28.3 AG	B?
539031.9	6821171	6450.6	36	0.5	11.4	30	7.6	16.9	21.7	29	0	5.2 AH	B?
539311.3	6820576	6469.3	36	1.2	23.1	0	11.4	12.9	95.2	93.3	9.6	31.5 AI	B?
LINE 1	390												
520618.1	6869927	4605.6	36	0.7	0	0	13.9	30.4	175.7	305.1	11.5	68.3 A	B?
520956.7	6869110	4579.3	36	1.1	0	0	19.9	28.6	109.1	174.1	6.4	37.1 B	B
521205.7	6868436	4557.6	36	0.5	0	0	10.1	31.9	29.8	77.8	1.5	12 C	B?
521746.3	6867053	4513.7	36	1.2	0	0	22.5	31.6	88.8	160.3	8.2	35.1 D	B?
521840.8	6866840	4506.5	36	0.9	0	0	19.3	35.8	72.7	105.3	8.6	24.5 E	B
522417.2	6865324	4460.1	36	0.8	6.7	0	9.2	14.7	44.9	52.5	5.9	15.2 F	B?
522456.7	6865227	4457.3	36	1.1	0	0	17.7	25.3	44.9	52.5	8.8	15.2 G	B?
522562.3	6864929	4448.3	36	1	3.5	1	13.3	19	0	0	0.3	0 H	B?
522942.7	6863967	4415.8	36	1.2	0	0	27.2	42.6	0	44.2	1.4	6.2 I	B?
523074.1	6863647	4405.2	36	1.5	0	0	29.6	36.9	195.2	233	19.8	67.5 J	B?
523213.6	6863312	4394.5	36	1.1	0	1	25.5	40.5	101.8	192.2	9.3	36.8 K	B?
523384.6	6862823	4379.7	36	1.1	8.8	0	11.9	14.6	34.1	49.3	6.7	12.7 L	B
523676.6	6862073	4354.4	36	999	16.8	0	32.5	0	91.6	122.5	0	31.7 M	B?
523750.9	6861879	4347.3	36	1.7	0	2	32.5	36.7	101.4	156.9	8.7	32.8 N	B?
524495.3	6859896	4283.2	36	1.5	0	0	47.7	71	135.3	194.5	14.1	46.9 O	B?
524613.3	6859673	4275.7	36	1.9	0	3	42.5	47.4	112.1	166.9	9.1	38.5 P	B?
524772.1	6859353	4265	36	2.1	0	21	41.9	42.8	166.1	179.8	60.4	94.4 Q	B?
524824.2	6859231	4261	36	1.9	0	0	51.5	62.4	205.1	208.6	60.4	94.4 R	B?
524895.1	6859040	4255.2	36	5.2	0	0	99.2	60.1	291.7	223.5	0.3	95.9 S	B
525351.1	6857753	4216.5	36	6	5.5	12	37.8	16.3	201.2	169.3	14.1	59.7 T	B?
525392.8	6857660	4213.2	36	3.2	0.9	12	36.9	25.7	0	131.8	14.1	35.4 U	B
525464.8	6857494	4207.5	36	2.1	0	41	38	37.1	0	3.7	0.3	0 V	D

525558.8	6857248	4199.6	36	1.8	0	0	73.4	103.8	339.1	295.6	39.9	115 6 W	B?
525671.4	6856931	4189.9	36	4.9	0	0	54.3	29.6	146.3	131.5	0.3	47.1 X	D
525713.3	6856827	4186.8	36	1.3	0	95	35.6	54.5	0	92.8	13.3	0 Y	D
525909.9	6856335	4172.2	36	1.5	0	0	52	77.8	162.3	220.6	8.1	46.7 Z	B?
526205.9	6855573	4141.6	36	1.5	0	0	38.6	51.2	122.1	114.9	17	43.5 AA	D
526526.8	6854779	4112.3	36	1.4	0	0	61	101.7	258.3	271	24.7	84.6 AB	B?
531301.4	6842398	3372.9	36	1.1	7.7	3	11.8	15.3	55.9	66.4	5.2	15 AC	E
534709.5	6833603	3108.3	36	0.7	0	10	15.8	37	102.1	156.3	5.9	33.1 AD	S?
535449.8	6831708	3054.1	36	1	2.4	5	14.6	20.6	21.9	57.8	2.6	9.7 AE	B?
535633.4	6831218	3039.9	36	999	44.7	3	10.2	0	25.6	70.4	3.1	11.9 AF	B?
536714.6	6828399	2928.3	36	0.9	11.3	0	9.1	12.3	35.4	47.4	4.7	9.7 AG	B?
537616.9	6826174	2862.3	36	1.3	0	1	24.3	33.9	72.9	85.2	8.5	24.2 AH	B?
538024.6	6825091	2831	36	3.1	6.3	0	27.4	17.9	101.6	70.9	1.2	31.1 AI	B?
538207.3	6824622	2816.9	36	1.8	0	0	32.3	34.3	118.3	113.8	8.4	33.5 AJ	B?
538732.7	6823244	2774.3	36	1.3	0	26	21.7	27.8	49.8	76.1	1.8	7 AK	B?
538960.1	6822717	2747.7	36	0.9	9.8	0	9.7	13.2	36	0	3.4	11.4 AL	D
539722.4	6820734	2518.8	36	5.1	14.8	0	22.3	9.5	118	103.8	7.7	36.6 AM	B?
540071.9	6819900	2489	36	0.7	0	0	12.7	26.1	89.4	166.8	4.8	32.2 AN	S?
LINE 1	400												
525762.1	6857843	827.7	36	1.4	0	4	32.6	44.5	111.7	145.9	9	36 A	B?
526039.3	6857131	845.9	36	3.9	6.2	0	40.8	24.8	138.1	72.4	27.9	49.1 B	B?
526092.3	6857014	848.8	36	2.3	11.4	76	22.9	18.3	138.1	72.5	27.9	49.1 C	B?
531585.2	6842775	1612	36	0.9	15.4	8	8.9	12.6	31.4	34.4	3.7	8.7 D	B?
532210	6841153	1656.3	36	0.7	0	1	18.1	44.6	82	191.2	5.6	34.5 E	B
532642.6	6840021	1686.3	36	0.8	1.1	0	14.4	27.5	74.9	140.2	4.5	27.4 F	B
533442.1	6837965	1743.5	36	0.3	0	0	4.6	17.5	68.2	116.5	6.1	25 G	D
534101.8	6836253	1791.2	36	0.9	18.1	0	8.3	11.1	26.2	59.2	2.2	7.9 H	S?
535182.1	6833405	1888.1	36	0.6	0.2	0	10.5	23.8	18	99.3	0.4	10.8 I	S?
535388.3	6832896	1904	36	1.2	0	1	34.2	56.5	128	259.7	7.4	48.6 J	B?
536794	6829331	2035.4	36	0.9	0	0	19.3	34.8	82	101	8.4	27.5 K	S?
536983.7	6828887	2050.4	36	0.6	0	1	20.8	58	50.7	99.6	5	15.5 L	S?
537214.6	6828284	2071.4	36	1.4	2.6	1	25	30.9	139.4	178.9	13.2	46.1 M	B?
537299.7	6828068	2078.4	36	0.7	0	0	13.9	31.2	49.2	85.5	6.6	19.6 N	B?
537725.6	6826938	2110.5	36	1	0	0	27.9	50.9	82.1	157.4	3.6	31.1 O	B?
538583.3	6824717	2172.1	36	1.6	14.5	0	15.2	15	19.1	21.4	2.6	3.5 P	S?
538702.3	6824411	2180.5	36	0.7	0	0	14.3	32.5	42	88.2	3.2	13.6 Q	S?
539004.4	6823594	2203.9	36	0.7	8.1	9	9	16.8	74.5	71.1	5.7	21.1 R	B?

539348.1	6822670	2265.4	36	1.1	11.4	0	13.4	16.8	26	36.8	1	5.7 S	S?
540152.5	6820790	2379.2	36	1	9.6	6	13.1	18.1	82.1	93	8.8	26.5 T	B?
LINE 1	405												
520523.6	6871316	3901.5	50	1.3	14.7	0	12.3	13.9	76.8	128.4	6	26.7 A	B
520651.8	6870964	3890.8	50	3.9	18.9	0	20.5	10.5	65.9	58.5	7.1	16.5 B	B
520921	6870311	3869.7	50	1	10.6	0	11.7	16.3	52.9	61.6	1.6	17.3 C	B
521910.8	6867669	3793.9	50	0.6	23.6	27	4.2	7.2	3.1	7.4	1.5	4.2 D	B?
523182.1	6864417	3695.8	50	1.1	2.8	0	18.1	26.9	57.4	95.2	1.7	0 E	B?
524028.3	6862236	3630	50	3.1	13.8	1	23.6	14.9	55.3	43.8	5.2	16.5 F	B?
524229.8	6861759	3613.4	50	1.6	14.3	1	15	14.6	102.5	123.2	7.4	32.6 G	B?
524629.4	6860751	3581.2	50	1	2.2	1	16.7	26.9	166.4	228.1	12.8	53.3 H	B?
524959.7	6859924	3554.3	50	1.4	4.7	14	21.3	25.6	98.3	151.9	1.7	29.2 I	B?
525094.1	6859529	3541.8	50	88.2	16	0	36.3	2.5	135.5	44.5	24.6	37.7 J	B?
525305.7	6858989	3525.4	50	3.9	31.3	0	12.3	5.5	50.1	15.4	10.3	15.9 K	B
525647.6	6858046	3497	50	1.1	18.8	8	9.2	10.9	33.7	41.8	2.5	7.5 L	B?
LINE 1	410												
520692.8	6871988	8449.3	35	1.2	0	0	37.2	60.3	84.5	170.2	8.7	35.2 A	B
520818.6	6871714	8439	35	0.8	0	1	22.4	50.4	122.3	187.3	11	44.7 B	B
520903.7	6871502	8430.1	35	0.7	8.2	1	10.2	20.6	36.9	3.5	6.2	13 C	B?
520945.1	6871383	8425.5	35	0.7	10.5	0	10.6	19.4	36.9	42.8	6.2	13 D	B?
521549.4	6869806	8377.8	35	1.4	7.8	0	23.5	29	56.4	81.4	0	19.1 E	D
521716.1	6869352	8364	35	0.9	36.2	0	5	6	29.9	49.1	3	11 F	B?
522287.5	6867930	8319.1	35	0.6	0	0	14.3	33.9	4.4	106.9	3.8	1.5 G	B?
522389.5	6867676	8310.4	35	0.6	5	1	9.9	22.7	66.3	80.3	4.2	21.5 H	B?
523052.3	6865998	8255.6	35	0.3	0	1	6.6	24.9	65.8	64.5	10.8	23.5 I	B?
523550.4	6864737	8215.1	35	1.2	2.8	1	25.3	38.8	55.5	107.2	1.7	17.2 J	S?
523694.8	6864234	8197.1	35	1.6	3.7	0	33.5	40.2	208.5	200	26	69.8 K	B
523789.1	6864007	8189.8	35	2.5	22.5	1	17.6	12.2	19	10.8	0	3.6 L	B
523879.8	6863816	8183.4	35	1	4.3	0	20.8	33.6	68.4	121.2	3.6	24.6 M	B
524232.4	6862895	8155	35	1.3	1.1	0	31.1	46	90.2	127.8	6.1	29.1 N	B
524365.3	6862566	8144.7	35	1.3	0	1	45.1	72.5	200.1	275.1	21.1	70.2 O	B?
524490.9	6862240	8134.3	35	0.7	0	0	29.3	81.8	152.8	265.4	15.5	57.9 P	B?
524515.3	6862180	8132.5	35	1.4	0	0	47.1	70.7	155.8	265.4	15.5	57.9 Q	B?
524791.3	6861514	8113.7	35	0.8	0	3	24.2	57.7	124.3	178.2	20	44.9 R	B?
524898.9	6861229	8105.9	35	2.6	8	4	37.6	30.7	122.8	98.5	22.1	44.1 S	B?
525015.1	6860878	8096.2	35	2.2	5.1	0	39.3	38	122.5	91.9	17.5	38.8 T	B?
525238.3	6860318	8078.1	35	3.8	7.4	0	48.4	31.3	118.6	45.9	20.5	44.5 U	B?

525361.2	6859932	8065.3	35	3.8	0	14	119.9	99.8	455	329.7	49.3	146 4 V	B?
525463.3	6859657	8057.3	35	9.1	11.3	0	52.7	18	0	85.9	0	0 W	B
525561.9	6859425	8050.6	35	34.5	30.9	0	20.8	2.3	91.3	3.5	0	1.5 X	B?
525618.8	6859272	8046.3	35	3.8	10.9	0	39.3	24.1	91.3	26	24.3	23.4 Y	B?
525665.3	6859140	8042.5	35	2	12.3	0	25	22.6	0	61.4	0.9	0 Z	D
525719.4	6858987	8038.1	35	1.4	0.9	0	33.6	47.6	118.2	124	12.7	41.3 AA	D
525965.9	6858291	8018.6	35	0.7	4	3	13.4	27.6	12.3	48.8	2.1	7.6 AB	S
526403.9	6857223	7980.7	35	0.7	0.9	0	14.4	32.5	46.8	82.3	4.6	18.3 AC	B?
526459.3	6857086	7976.6	35	1.9	4	0	36.7	40.2	79.7	115.5	5.7	26.7 AD	D
526850.4	6856212	7949.6	35	1.3	7.5	0	22.5	29.1	87.1	65.9	11.6	26.7 AE	B?
526928	6855923	7940.1	35	0.9	0	10	33.3	75.3	66.6	192.9	6.2	32.3 AF	B?
527036.6	6855609	7929	35	1	0	0	25.2	45.5	101.4	81.6	8.7	25.5 AG	B?
527132.1	6855382	7921.6	35	0.7	0	0	16.5	37.7	58.6	72.5	3.2	18.5 AH	B?
528161.9	6852717	7844.4	35	0.8	9	0	13.1	22.5	0	64.3	0.7	8.2 AI	S?
532658	6841125	7158	35	0.9	0	2	26.2	50.7	53.9	107	4	19.7 AJ	S?
533637.3	6838425	7077.5	35	1.1	5.5	0	21.8	32.1	102.3	183.6	7.6	38.8 AK	B?
534622.8	6836128	7002.3	35	0.7	0.2	0	14.9	34	80.2	160.5	2.9	29.6 AL	S?
535703.5	6833259	6905.5	35	0.7	0.7	2	14	32.2	52.2	139.1	2.5	23.7 AM	S?
537259.3	6829193	6750.4	35	0.7	1.4	0	14.9	32.3	59.8	63.9	5.9	17.4 AN	B?
537527.9	6828579	6721.9	35	0.6	0	0	17.1	44.4	42.3	83.1	4.9	18.5 AO	B?
539019	6824724	6607.6	35	0.9	1.3	4	20.8	39	35.4	62.8	1.6	10.4 AP	S?
539697.7	6823015	6524.2	35	0.5	0	0	12.3	39	18.3	75.2	2.7	12.7 AQ	D
LINE 1	420												
520574.1	6873373	4417.3	35	0.7	0	0	10	19.3	39.4	103	1	15.7 A	S?
521370.1	6871239	4474.4	35	1.1	0	0	17.6	25	64.4	97.3	8	26.5 B	B?
521395.7	6871167	4476.3	35	1	0	1	13.8	19.5	64.4	97.3	10.9	26.5 C	D
521631.9	6870577	4492.1	35	1.1	0	0	12.3	15.2	21.3	25.3	0	6 D	B?
521815.3	6870160	4502.3	35	0.5	0	0	4.2	9.1	31.7	9.5	7	0 E	D
523061.9	6866918	4581.4	35	0.4	0	0	5.9	20.3	47.2	69.9	4.8	17 F	B?
523895	6864903	4635.8	35	1.5	0	0	16.9	17.5	18.2	34.8	1.1	4.6 G	S?
524009.4	6864550	4644.5	35	2.2	0	1	35	32.7	102.9	86.5	5.8	33.8 H	B?
524113.3	6864221	4652.3	35	1.4	0	0	17.2	19.4	56.2	58.3	14.6	17.7 I	B?
524585.9	6863068	4684.6	35	1.8	0	0	31.2	33.8	116.4	123.2	2	40.8 J	B
524744.8	6862662	4695.8	35	0	0	0	3.8	1.9	81.3	0	16.2	30.6 K	B
524801.7	6862513	4699.9	35	2.2	0	0	34.2	31.3	97.9	130.5	0.3	38.1 L	B
524857	6862362	4703.9	35	1.1	0	0	22.3	33.2	0.1	0.1	0.4	0 M	B
525018.8	6861906	4715.9	35	4.6	0	0	30.7	15.2	63.5	46.7	0.8	26 N	D

525187.1	6861456	4728.7	35	2.5	0	0	17.1	11.9	68.2	94	15.7	27.5	O	B
525297.4	6861127	4738.9	35	40.7	13.2	0	12.7	1.1	13.3	2.2	3.1	5.8	P	B
525426.1	6860786	4749.9	35	430.9	0	0	36.3	0.8	205.1	158.5	22	67.2	Q	B?
525589.1	6860383	4761.9	35	1	0	85	23.4	40.1	0	97.1	0.6	21.2	R	B?
525683.8	6860143	4768.5	35	4.7	0	0	39.8	20.7	184.2	116.8	15.5	58.1	S	B?
525918.4	6859622	4782.6	35	3.5	0	0	32.7	20.4	201	101.1	0.3	63.3	T	B?
526142.3	6859006	4799.2	35	0.7	0	0	9.1	16.6	0.3	35.6	0.7	5.7	U	S?
526270.4	6858636	4808.7	35	0.6	0	17	13.1	34.8	55.7	147.7	2.3	22.6	V	S?
526682.2	6857566	4838.4	35	0.8	0	21	23.1	53.6	41.2	125.4	1.8	18	W	S?
526860.8	6857152	4849.7	35	2	0	0	40.1	42	112.2	133.8	8.5	35.1	X	D
526894.1	6857072	4851.9	35	1.2	0	0	21.1	30.1	112.2	133.8	8.5	35.1	Y	B
527179.1	6856331	4876.4	35	0	0	0	30.5	0.7	127.6	172.3	12.9	43.6	Z	B?
527608.3	6855281	4906.7	35	0.7	0	0	11.7	22	81.2	89.5	9.8	27.7	AA	B?
528577.9	6852764	4977.2	35	125.5	5.6	33	18.5	0.8	68	0	5.3	0	AB	E
532143.9	6843540	5565.7	35	0	0	0	0.5	7.3	24.7	41	1.1	8.8	AC	B?
533077.1	6841220	5635.2	35	0	0	0	0.5	23.7	23.3	85.8	1.8	12.9	AD	S
533912.4	6838966	5694.6	35	0.7	0	0	6.9	10.7	16.3	14.4	1.3	3.9	AE	D
537155.2	6830654	5920.3	35	0.8	0	7	15.1	28.1	57.6	103.8	2.2	18.9	AF	S?
537671.3	6829286	5973.5	35	0.7	0	0	5.5	8	26.4	50.6	1.6	9.8	AG	B?
537959.4	6828567	5995.2	35	0.8	0	0	12.3	21.5	63.9	100.2	10	20.5	AH	D
539114.6	6825588	6072.8	35	1.2	0	1	24.5	34.9	103.3	153.4	9.4	36.2	AI	B?
539236.4	6825245	6082.4	35	1.4	0	0	16.1	17.5	61.5	48.5	0.1	19.2	AJ	B
539464.1	6824634	6099.9	35	0.6	0	0	14.3	34.2	31	71.3	2.6	14.1	AK	S?
LINE 1	430													
520613.6	6874246	4240.5	35	1.5	0	1	25.1	30	51.8	98.1	3.7	20.4	A	S?
520706.4	6874057	4234.7	35	0.8	0	0	12.8	23.4	0	65.8	1.9	0	B	S?
521334.4	6872388	4181.8	35	1	0	1	26.6	47.6	49	71.2	0	16.4	C	B?
521474.3	6872031	4170.9	35	1.3	13.3	1	6.3	5.5	17.5	42.9	3.6	5.6	D	B?
521628.4	6871616	4158.8	35	0.3	0	0	4.2	15.7	35.9	0	0	0	E	B?
521686.8	6871446	4153.7	35	1.5	0	0	21.5	23.7	60.4	93.7	5.1	21.7	F	B
521872	6871056	4141.3	35	0.6	0	0	9.8	21.9	27	77.5	2.8	12.9	G	B
522077.8	6870658	4129	35	1.6	0	1	17.6	17.7	14.7	36.2	2.7	6.5	H	B?
522514	6869474	4093.9	35	0.3	0	0	2.8	10	5.7	29.7	1.6	3.6	I	B
522966.7	6868294	4058.4	35	0.5	0	0	7.3	19.3	27	46.6	3.2	10.3	J	B
523417.4	6867127	4025.8	35	2	7.9	0	9.7	6.9	41	0	0.1	10.9	K	D
523608.2	6866687	4012.8	35	1.2	0	0	29.1	45.1	24.9	79.7	1.3	10.3	L	B?
523725.6	6866349	4003.2	35	1.2	0	0	30.5	47.1	132.6	154	12.5	42.3	M	B?

523847.1	6866048	3993.8	35	0.5	0	2	8.5	24.9	15.2	35.5	4	7.2 N	B?
523932.8	6865845	3987	35	0.5	0	0	8.4	19.7	3.2	21.7	0.6	2.8 O	B?
524013.4	6865651	3980.4	35	0.9	0	0	17.2	31.4	2.2	52.1	0.1	0.4 P	D
524103.8	6865405	3972.2	35	0.8	0	0	17.9	36.4	47.5	85.7	1.3	15.4 Q	B?
524216	6865110	3963	35	0.8	0	0	18	37.4	23	56.3	0.1	11.1 R	D
524331.8	6864816	3954.5	35	0.1	0	0	1.4	65.8	1.7	218.6	0	76.3 S	B?
524557.7	6864252	3939.1	35	1.5	0	1	16.3	17.2	70.6	95.2	4	23.8 T	B?
525240.1	6862458	3893.7	35	1.7	0	1	15.7	14.7	125.1	119	21.2	43.8 U	B?
525424.6	6862018	3882	35	1.2	0	0	23	32.8	181.1	209.3	20.9	67.4 V	B
525708.4	6861329	3864	35	1.5	0	4	35.2	46.4	226.8	212.8	30.6	77.1 W	B?
525856.8	6860898	3851.7	35	999	13.3	16	17.7	0	72.3	115	18.6	33.8 X	B?
525971.8	6860578	3841	35	2.1	0	16	30.8	29.3	81.5	100.5	7.3	25.1 Y	B?
526087.1	6860274	3830.1	35	155.8	0	10	38	1.8	238.8	237	26.5	80.2 Z	B?
526218.6	6859917	3819.6	35	1.4	0	0	36.3	51.8	398.3	259	52.9	122 6 AA	B
526260.8	6859810	3816.7	35	4.1	0	42	89.4	63.8	398.3	259	52.9	122 6 AB	B?
526538.3	6859186	3798.9	35	0.7	0	0	8.3	13.6	31.8	52.1	1.9	7.8 AC	S?
527209.4	6857443	3735.9	35	0.5	0	0	9.2	23	0	13.1	0.1	0.3 AD	S?
527291.3	6857228	3729.2	35	2.4	0	21	52	50.8	121.5	99.7	11.2	39.3 AE	B?
527657.3	6856248	3694.3	35	3.6	0	0	60.2	43.1	208.8	200.7	21.9	64.9 AF	B
527779.7	6855939	3685.7	35	1.6	0	0	17.6	17.4	100.6	81.5	8.3	30.4 AG	B
528401.1	6854385	3643.6	35	1.2	0	0	22.6	31.5	141.1	177.6	14.3	46.4 AH	B?
528697.3	6853620	3623.3	35	1.2	0	15	21.8	31.2	209.1	220.3	12.2	62.1 AI	B?
528748.6	6853511	3620	35	2.8	0	27	53.4	46.1	209.1	220.3	12.2	62.1 AJ	D
528830	6853343	3614.8	35	1	0	0	32.2	61.1	105	144	6.2	0 AK	D
532128.1	6844816	3082.6	35	0	0	11	3.8	9.8	7.1	20.2	1.1	3.1 AL	B?
532670.9	6843302	3017	35	1.6	16	1	6.6	5	0	0	0.4	30.7 AM	B?
532980.1	6842614	2992.6	35	0.4	0	0	5.4	14.2	17.7	36	2.2	6.7 AN	S?
533569.1	6841028	2933.9	35	0.9	0	0	15.5	25.3	36.6	75.4	1	14.2 AO	S?
533900.8	6840209	2903.1	35	0.3	0	0	3.9	12	9.7	36.8	0.3	5.2 AP	B?
534676	6838240	2836.9	35	0.9	0	0	11.2	16.7	40.3	78.6	3	14.8 AQ	S?
534803.9	6837940	2826.3	35	0.4	0	0	7.8	27.3	27.1	99.4	1.4	14.8 AR	S?
534840.4	6837837	2822.8	35	50.3	9.4	0	17.4	1.5	2.2	7.4	1.3	1.8 AS	B?
535043.1	6837242	2798.8	35	0.6	0	0	7.1	14.6	36.4	105.1	2.5	17.3 AT	S?
536074	6834450	2707.5	35	0.6	0	1	7.2	15.2	55.3	106.1	2.5	18.2 AU	S?
536193.3	6834179	2698.4	35	0.9	0	0	13	20.3	25.1	33.8	4.7	1.9 AV	B?
536431.1	6833559	2680.7	35	0.1	1.8	2	0	14	18.6	5.6	1.7	7.9 AW	B?
536505.2	6833329	2674.3	35	0.4	0	1	7.4	27.5	34.2	115.8	0.7	14.7 AX	S?

536766.2	6832670	2654.3	35	0	0	0	0	13.2	0	0	0.7	0 AY	S?
537864.9	6829904	2556.5	35	0.2	0	0	3.2	13.8	12.6	21.6	0.5	4.3 AZ	S?
538024.1	6829531	2539.9	35	0.6	0	0	13.6	34.5	27.1	77.3	2.3	11.8 BA	S?
538208.8	6829078	2524.9	35	0.2	0	0	2.3	11.6	0	58.1	0.1	0.5 BB	S?
538992.3	6827043	2458.1	35	1.3	0	0	28.2	40.9	111.1	146.6	11.1	38.2 BC	B?
539269.6	6826318	2437.3	35	1	0	0	18.3	29.7	73.4	137.3	7.5	27.9 BD	B?
540060.4	6824242	2378.8	35	0.3	0	0	5.8	21.7	55.9	54.1	2.4	19.7 BE	S?
540214.5	6823896	2361.5	35	0.7	0	8	9.7	16.6	42.2	59	2.5	14.5 BF	S?
LINE 1	440												
523807	6867318	530.8	35	1.3	14.7	0	15.1	17.6	56	45	5.6	17.6 A	B?
523988.5	6866819	544.6	35	1.3	0	1	39.5	60.9	30.1	17.8	2	9.5 B	B?
524101.4	6866532	552.3	35	999	33.1	0	22.5	0	107.9	134.5	11.4	34.1 C	S?
524254.3	6866186	562	35	0.1	0	1	0.7	11.8	6.5	5.6	0.8	1.8 D	B?
524544	6865446	581.3	35	0.1	0	0	0.7	17.3	6.5	48.6	3.1	4.5 E	S?
524743.4	6864937	595.2	35	1.3	1.6	0	29.1	42	278.8	155.8	30.9	98.3 F	B
524787.4	6864821	598.4	35	2.5	0	3	62.7	62.2	278.8	279.5	30.9	98.3 G	B
524951.3	6864394	609.9	35	2.5	4.9	2	41.9	36.7	14.6	55	6.4	5.5 H	B?
525090.1	6863972	621.3	35	97.1	22.2	3	32.9	2	166.7	88.6	0	49.9 I	B?
525146.6	6863782	626.6	35	0.1	27.2	2	0	27.8	4.1	160.7	0.8	1 J	E
525317.8	6863350	639.5	35	0.2	0	0	3.1	14.9	6.5	0	4.2	3.4 K	D
525452.5	6863103	647	35	1	33.1	0	6.3	6.8	14.8	38.2	0.7	2.6 L	B?
525617.2	6862756	656.5	35	0.4	17	0	3.6	8.8	6.5	14.9	0.4	2.1 M	B?
525779.1	6862328	667.5	35	0.7	3.5	0	13.1	27.1	28.2	88.7	0.9	12.5 N	S
526016.8	6861606	687.4	35	2.3	0	0	60.5	64.1	352.2	280.8	64.6	130 1 O	B?
526218.9	6861120	701.6	35	1.1	6	0	18.8	28.6	26.5	58.5	0.8	9.9 P	B?
526250.7	6861043	703.9	35	1.3	0	88	35.3	52.9	26.5	58.5	6.7	9.9 Q	D
526350.9	6860800	711.1	35	1.6	0	0	48.1	67	77.3	193.3	1.7	25.3 R	B
526428.9	6860605	716.8	35	1.5	5.3	0	28.1	33.6	61.6	102.5	4.2	16.3 S	B?
526491.6	6860432	721.5	35	3.3	1	0	64.9	50.7	261.5	264.2	31.4	85.5 T	B
526547	6860290	725.6	35	0.1	27.2	0	0	1.2	261.5	264.2	31.4	85.5 U	B?
526720.9	6859817	739.8	35	3.6	2	0	63.2	46.3	143.6	175.6	14.8	45.2 V	B?
526803.6	6859577	746.6	35	0.9	2	0	19	34.9	42.4	78.5	0.8	15.1 W	D
526856.4	6859441	750.5	35	0.7	5	0	12.2	24.8	70.8	78.5	4	25.9 X	D
527061.7	6858898	765.4	35	0.8	10.9	7	11.2	19	52.3	56.8	3	14.6 Y	S?
527469.3	6857834	802.2	35	0.7	0	0	20.1	52	39.6	84.2	0.4	12.9 Z	S?
527668.6	6857318	817.4	35	2.3	0	27	92.2	110.9	206.3	237.6	24.2	76.5 AA	D
527722.3	6857203	821	35	999	28.8	0	27.6	0	206.3	237.6	24.2	76.5 AB	B?

528753.1	6854537	894.3	35	0.4	4.2	34	6.5	18.1	31.9	78.7	1.3	15.3	AC	B?
528938.4	6854109	905.9	35	1	9.1	0	15.6	23.2	32.6	42	3.4	10.1	AD	B?
529103.6	6853714	916.2	35	2	24	0	14	11	41.4	24	0	11.8	AE	B?
529234.8	6853381	925	35	1.9	4.2	76	36.2	38	92.1	111.8	17.9	38.2	AF	B?
531809.4	6846765	1501.4	35	0.2	2.6	0	2.3	11.1	5.7	44.5	0.8	6.1	AG	S?
533307.5	6842927	1733.4	35	0.4	23.9	0	3.4	7.2	22.8	46.4	1.2	7.5	AH	B?
533439.4	6842428	1752.2	35	0.4	0	0	6.5	22.7	27.2	79.2	1.5	12.4	AI	D
533478	6842331	1756.1	35	0.5	0	1	10.2	29	29.7	79.2	1.3	12.4	AJ	B?
536437.8	6834735	1999.3	35	0.8	5.4	1	15	27.1	34.1	71	3.6	11.7	AK	S?
536729	6833978	2020	35	0.3	0	0	8.9	41.2	122.4	185.6	12.5	46.8	AL	B?
537633.5	6831652	2079.1	35	0.9	8.6	2	14.1	22.8	71.3	101.3	5.3	24.7	AM	S?
538091.7	6830458	2108.1	35	0.3	3.7	0	4.2	14.6	26.9	43.9	3.9	9.5	AN	D
538806.9	6828579	2159.7	35	0.8	7	0	12.7	23.5	54.5	74.2	6.5	19.4	AO	B?
539485.3	6826860	2206.2	35	0.9	0	0	27	54.1	114.1	210.7	7.9	43.5	AP	B?
LINE 1	445													
520976.6	6874611	2434.5	50	0.9	6.2	0	9	12.1	25.5	39.4	3.7	8.9	A	S?
521138.2	6874195	2449.3	50	0.9	2.9	0	10.4	14.5	33.9	68	3.3	12.3	B	S?
521476.3	6873350	2478.4	50	1.9	10.3	0	13.6	10.8	43	46.2	3.4	13.3	C	S
521732.5	6872670	2502.3	50	0.8	12.8	0	5.9	8.3	17.1	41.9	2.3	9.1	D	B?
522824.9	6869809	2594.8	50	1.3	0	0	24.3	33.6	82.1	118.8	3.7	25.5	E	S?
LINE 1	450													
520743.3	6876301	8058.4	34	0.2	0	0	3.1	15.4	0	27	2.1	6.9	A	S?
521025.4	6875589	8036.2	34	0.9	0	0	29.5	64.4	62.4	146.5	3.9	24.1	B	S
521139.5	6875298	8027.6	34	0.1	0	0	1.2	9.5	51.2	55.2	4.3	15.4	C	B?
521776.5	6873684	7979.7	34	0.6	0	1	7.5	16.3	16.9	55.5	2.2	8.7	D	B?
522095.6	6872752	7952.6	34	1.4	12.4	0	10.1	10	29.2	0	3	0	E	D
523154.4	6870065	7876.9	34	0.7	0.3	0	9	15.7	0	102.8	1.4	12.2	F	B?
523596.6	6868906	7843.7	34	1	0	0	14.3	21.7	53.5	93.9	5.5	21.3	G	B?
523825.6	6868337	7827.4	34	1	0	0	15.7	24	46.1	79.6	6.5	19.8	H	B
524060.2	6867788	7812.1	34	0.6	21.7	0	3.7	5.6	0	16.9	0	0.1	I	B
524279.7	6867277	7797.5	34	1	0	0	20.4	32.5	192.2	290.3	13.6	67.6	J	B?
524430.5	6866755	7780.8	34	1.6	0	0	44.4	58.6	153.8	234	0	49.9	K	B?
524461.7	6866663	7777.9	34	0.9	0	0	19.8	37.7	153.8	234	8.8	49.9	L	B?
524781	6865908	7756.3	34	0.5	0	0	12.6	35.2	16.2	48.7	1.1	6.4	M	D
524979.5	6865373	7742.4	34	0.1	0	0	1.8	41.6	16.5	88.7	0	0	N	E
525058.1	6865149	7736.5	34	1.6	3.1	0	17.1	16.8	0.1	88.6	1.2	0	O	B?
525146.2	6864924	7730.3	34	1.6	0	2	53.5	76.5	286.1	348.1	27.4	98.9	P	B?

525288.1	6864598	7720.9	34	0.4	0	0	6.8	20	0	3.3	1	0.1 Q	B
525362.8	6864391	7715.1	34	0.1	0	0	3.1	25.1	0	0	6.8	0 R	E
525413.5	6864240	7711.3	34	0.4	0	0	7.3	26	77.9	108.7	6.8	28.2 S	S?
525833.9	6863177	7684.5	34	1.8	0	1	30.7	33	64.1	70.8	4.7	20.3 T	S?
525950.9	6862822	7675.6	34	0.9	0	0	23.5	44.1	71.2	106	4.8	23.6 U	S?
526092.7	6862473	7666.7	34	0.3	0	0	6	22.5	38.8	79.5	1.1	15.5 V	D
526132.1	6862386	7664.4	34	0.4	0	0	5.7	19.3	38.8	79.5	1.4	15.5 W	S?
526467.6	6861560	7643.4	34	2	0	0	47.5	51.8	188.3	241.6	20.7	64.5 X	B?
526514.8	6861445	7640.3	34	0.7	0	0	20.7	50.4	188.3	191.8	20.7	64.5 Y	B?
526573.1	6861319	7636.6	34	0	0	0	0	34.8	0	0	1	0.1 Z	B
526784.5	6860762	7619.2	34	0.8	0	0	20.9	41.2	122.3	122.7	8.5	29.4 AA	S
526969.8	6860235	7604.9	34	999	18.4	0	24.2	0	55.6	163.7	0	18.4 AB	S?
527018.3	6860114	7601.6	34	0.5	0	37	11.3	36.5	45.9	0	0	0.1 AC	B?
527102.2	6859919	7596.1	34	3	0	0	73.4	64.1	113.2	106.6	11.5	35.9 AD	D
527877.6	6857942	7533	34	0.3	0	0	8.7	42.2	26.7	101.9	0.2	14.3 AE	S?
528059.1	6857446	7516.2	34	2.5	0	0	48.2	43.7	113.8	158.8	6.1	37.8 AF	D
528190.3	6857088	7506.5	34	1.4	0	0	21.5	26.5	41.9	50	0	0.2 AG	D
528288	6856812	7499	34	0.7	0	0	11.7	24.8	35.2	93.6	2.6	15.9 AH	D
528770.6	6855586	7465.5	34	4.8	0	11	57.4	32.4	335.7	314	26.6	102 9 AI	B?
528814.3	6855481	7462.5	34	0	0	10	0	0	335.7	0	26.6	102 9 AJ	B?
529161.7	6854613	7438.4	34	0.2	0	0	3.1	17.9	68.4	88.3	8.2	22.3 AK	B
529331.4	6854199	7426.9	34	0.8	0	0	12.5	22.5	147.6	153.4	12.5	48 AL	B
529673.7	6853305	7402.4	34	3.6	0	0	41.2	26.9	145.5	85.1	22.4	51.4 AM	B?
529834.8	6852864	7389.4	34	1.8	0	1	46.5	56.4	229	240.2	26.8	78.6 AN	B?
532346.3	6846494	6952	34	0	0	25	3.2	0.5	4.7	0	5.3	0.1 AO	M
532418.1	6846426	6933.4	34	0.5	26.3	0	2.8	4.5	5	25.5	7.4	3.9 AP	M
532450.5	6846203	6914	34	0.1	14.1	0	0	4.3	0	8.3	1.9	1.8 AQ	M
534370.5	6841128	6660.1	34	0.3	0	0	4.1	13.7	37	64.1	3.2	12.8 AR	S
537031.8	6834270	6444.4	34	1.1	0	1	17.5	25.7	34	69.9	4.6	11.7 AS	B?
537608.8	6832792	6404.4	34	0.7	0	0	10.6	20.1	16.5	18.7	3.7	0 AT	B?
537685.4	6832575	6398.3	34	0.7	0	0	11	21	16.5	73.9	1.4	10.1 AU	B?
537817	6832253	6389	34	0.5	0	1	10.8	30.4	92	183.4	4.9	37 AV	B?
537845.1	6832183	6387	34	0.2	0	1	6.1	41.6	92	183.4	5.9	37 AW	B?
538882.5	6829570	6308.3	34	0.5	0	0	9	25.4	25.7	80.4	1.9	10.1 AX	B?
540034.8	6826523	6218.1	34	0.7	0	1	15	33.2	91.7	161.2	8	34.9 AY	B?
540119.1	6826381	6213.1	34	0.5	0	0	16.6	63.9	129.8	237.9	11.6	50 AZ	B?

LINE 1 460

520593.6	6877733	4292.5	34	0.4	0	14	6.3	20.4	12.6	63.7	1	7.9 A	S?
520893.1	6877023	4311.1	34	0.2	12.3	1	1.2	5.1	4.6	16.4	1.4	3.8 B	S?
521044.1	6876617	4321.9	34	0.4	6.5	0	4.5	12.2	12.1	70.7	1.8	14.8 C	B?
522390.1	6873171	4410.8	34	0.9	15.2	0	8.8	12.6	3.4	16.5	3.9	15.7 D	D
522452.8	6873013	4414.7	34	1.3	2.6	0	22.3	29.9	37.4	65.2	5.5	15.7 E	B?
523049.5	6871497	4454.4	34	1.1	2	0	19.6	29.5	55.6	79.6	5.2	19.8 F	B
523247.9	6870976	4468.1	34	0.6	10.3	0	7.5	14.3	10.1	33.8	1.2	3.8 G	B?
523496.7	6870314	4485.8	34	1.2	22.6	0	8.9	9.4	15	25.9	5.5	5.3 H	B?
523930	6869179	4515.8	34	1.8	20.3	0	13.1	11	18.3	16.9	0.8	6 I	D
525507.4	6865200	4644.2	34	0	0	1	1.1	1.3	0.7	1.2	0.5	0.1 J	E
525601.3	6864986	4650.2	34	528.2	34.9	0	17	0.3	103	210.9	16.1	31.7 K	B
525663.7	6864809	4654.7	34	0.8	27.3	0	5.3	7	7.8	23.1	16.1	31.7 L	B
525770.3	6864498	4662.5	34	0.1	0	0	2.1	69.3	124.6	175.4	0.4	42.6 M	E
526257.8	6863219	4695.8	34	0.7	0	4	12.5	27.7	90.9	113.9	5.4	30.2 N	S?
526433.3	6862746	4707.9	34	0.2	0	0	3.3	14.3	12.6	40.4	0.5	6 O	B?
526901.8	6861571	4741.1	34	3.2	17.8	0	20.2	12	67.9	66.4	0.3	23.1 P	S?
527046.6	6861129	4755.9	34	0.8	0	0	16.2	30.6	48	106.6	0.4	16.5 Q	S?
527148.6	6860885	4763.4	34	1.3	11.7	0	14.6	16.9	46.6	64	3.3	16.2 R	S?
527296.1	6860570	4773.3	34	1.2	6.5	36	17.5	22.7	37.4	57.2	0.4	15.1 S	B?
527465.5	6860125	4786.1	34	1.5	8.5	0	19.6	21.1	58.1	57.3	7.3	18 T	D
527581.6	6859787	4795.4	34	1.3	0	0	31.5	47.9	68.2	104.5	0.9	21.3 U	D
527832.3	6859168	4813.4	34	0.6	0	0	12.9	34.2	81.3	128.6	3.7	29.3 V	S?
528459.3	6857512	4860.1	34	1.9	0	23	37	40.1	85.2	62.4	0.4	25.1 W	B?
528836.8	6856577	4883.7	34	2.2	9.2	0	24.7	20.8	155.2	139.9	17	52.2 X	B
528965.7	6856280	4891.1	34	4.5	7.4	9	40.3	21.9	11.7	18.1	1.4	5.8 Y	B?
529039.9	6856096	4895.7	34	1.6	1.5	0	28.5	33.8	200.3	140.1	27	72 Z	B
529151.6	6855787	4903.3	34	1.5	1.7	6	27.7	33.3	190.6	210.7	20.2	66.3 AA	B
529866.9	6853901	4951.7	34	3.4	6.9	0	36.2	23.9	85.2	30.5	22.4	34.4 AB	B
529985.1	6853579	4960.5	34	1.5	7.1	0	20.4	23	26.8	58.6	0.3	6.6 AC	B
530104.8	6853231	4970.2	34	1.8	3.4	0	28.6	30.2	132.4	82.1	30	51.3 AD	B
533709.2	6844035	5510	34	1.4	18.5	4	11.8	11.8	8.2	11.5	0.8	3 AE	B?
533947.9	6843318	5536.5	34	0.4	6.7	0	4.7	12.4	21.9	57.4	1.1	9.8 AF	S
534628	6841552	5627.8	34	0.4	0	0	7.1	26.1	32.2	85.2	1.8	14.1 AG	S
536211	6837530	5763.2	34	0.5	5.6	1	6.8	15.6	19.6	34.3	0.7	7.4 AH	S?
537446	6834283	5858	34	1.7	16.3	0	14.9	13.5	56	81.5	7.1	18.3 AI	B
537701.8	6833666	5875.7	34	0.7	15.3	0	7.4	11.9	7.8	12.6	0.4	3.8 AJ	B?
538115.3	6832634	5902.8	34	882.1	33.4	0	18.5	0.2	87	84.3	11	30.6 AK	B?

539505.2	6828966	6015.3	34	0.8	5.7	0	12	20.7	52.8	105.9	4.8	21.6 AL	B
539864.4	6828099	6042.9	34	999	25.9	0	26.5	0.2	81.4	86.8	8.1	27.8 AM	B?
540184.9	6827275	6064.5	34	0.9	0	1	20.9	39.7	91.8	170.3	7.1	36.4 AN	B?
LINE 1	470												
520593.3	6878863	4145.6	34	0.3	0	1	3.3	12	14.8	91.7	2.1	9.7 A	S
520829.8	6878296	4128.8	34	0.4	0	1	4	11.9	14.2	53.7	1.5	7.8 B	S
522819.3	6873145	3984.4	34	0.7	0	0	7	11.7	40.4	0	0	0 C	B?
523392.7	6871735	3944.9	34	0.7	0	0	12.3	24.5	44.9	58.2	4.2	15.4 D	B?
523556	6871276	3932.3	34	1.1	0	0	20.2	29.9	67.6	115.3	6.3	25.7 E	B?
523882.7	6870394	3909	34	0.6	0	0	5.1	8.5	13	14	0.9	3.4 F	D
524024.8	6870006	3898.5	34	0.4	0	0	4.3	13.2	23.7	55.7	1.8	10.2 G	B?
525295.2	6866775	3795.9	34	0.7	0	0	14.5	34.4	147.9	157.6	13.2	47.3 H	S?
525861.7	6865328	3745.1	34	19.1	0	0	42.7	8.3	0	0	0	0 I	E
525950.8	6865107	3738	34	1	0	0	21.4	37.2	146.6	187.3	28.1	56.5 J	B
526054.8	6864817	3729.8	34	215	346.8	1	0	0	0	155.7	0	0 K	B
526324.3	6864054	3709.1	34	1	0	0	9.5	12.5	23.5	0	0.2	0 L	B?
526397.9	6863870	3704.4	34	0.7	0	0	10.8	20.9	0	50.6	0	0 M	B?
526569.6	6863438	3693.1	34	0.6	0	1	8.4	18.5	24.9	50.4	2.1	9.8 N	S?
526757.1	6862946	3680.4	34	0.5	0	0	7.3	18	28.7	84.2	1.6	11.7 O	S?
527225.3	6861747	3647.7	34	0.1	2.2	0	0	16.5	0	0	4.8	0 P	B?
527280.9	6861639	3643.7	34	2.3	0	0	25.4	21	43.5	47.5	0	13.1 Q	D
527508	6861055	3625.1	34	76.9	0	31	108.4	10.3	35.3	22.2	0	12.9 R	B?
527602	6860831	3619.4	34	999	0	0	87.8	0	392.8	344.4	72	141 7 S	B
527685.9	6860618	3614	34	2.4	0	0	57	56.1	228.4	187.2	0	80.5 T	B?
528164.9	6859376	3581.9	34	1.2	0	0	18.9	24.5	92.6	118.1	9.8	30.6 U	B?
528240.5	6859194	3576.7	34	1.4	0	0	27.2	34.6	74.3	68.1	0	24.1 V	D
528287.3	6859073	3573.1	34	0.6	0	10	9.7	20.6	0	0.6	0	0 W	D
528566.4	6858306	3548.5	34	2.3	0	0	14.8	10.5	36.8	72.5	9.9	14.2 X	B
528631.6	6858148	3544.2	34	1.2	0	7	14.5	18.2	0	28.8	10.7	0 Y	B?
528700.8	6857982	3539.7	34	1.3	0	0	10.9	11.7	54.9	129.2	3	22.1 Z	S?
528856.3	6857544	3528	34	1.2	0	0	23.6	33.3	0	60.5	3.5	0 AA	B?
528934.9	6857341	3522.6	34	2.9	0	0	43.9	34	90.6	76.9	0	0 AB	D
529297.6	6856358	3496.4	34	1.5	0	0	19.5	21.2	97.7	42.7	22.2	41.6 AC	B?
529891.8	6854927	3459	34	1.1	0	0	10.3	12.7	94.5	95.1	10.2	33.2 AD	B
530195.3	6854114	3437.8	34	2.1	0	20	34.4	33.3	125.5	120.3	64	50.7 AE	B?
530261.7	6853949	3433.6	34	5	0	0	45.1	23	284.5	0	64	107 6 AF	B?
530455.6	6853464	3421.3	34	3.5	0	6	24.9	14.3	101.8	51.9	15.1	35.4 AG	B

530654.1	6852939	3407.7	34	1.4	0	0	14.2	15.1	125.3	89.6	23.3	54 AH	B?
530872.5	6852367	3392.1	34	1.1	0	16	19.3	28.2	79.4	58.9	3.1	23.9 AI	B?
530970.3	6852134	3385	34	999	2.5	0	29.3	0	121.6	185.2	0	42.4 AJ	E
535243.4	6841130	2776.7	34	0.6	0	0	7.7	14.9	30.8	67	1.4	11.3 AK	S?
536858.7	6837037	2603.9	34	0.8	0	0	10.2	15.8	61.9	100.9	1.4	20.1 AL	S?
536994.3	6836688	2593.9	34	0.4	0	3	8	25.3	46.9	130.4	1.4	21.2 AM	S?
538215.1	6833521	2503.8	34	0.8	0	0	11.7	18.9	43.1	70.4	1.9	15 AN	S?
538287.2	6833345	2498.7	34	1	0	1	20	31.6	13.9	24.2	1.9	6.5 AO	B?
LINE 1	480												
520704.3	6879680	478.2	34	0.5	0	11	4.8	11.3	39.3	108.5	1.5	17.7 A	S
522311.3	6875570	590.8	34	0.9	0	0	9.6	13.8	37.5	79.6	3.9	16.8 B	B
523131.9	6873477	647.4	34	0.8	0	1	8.8	14.2	16	23.4	2.6	5.1 C	B?
523981.5	6871308	703.4	34	2.3	0	0	11.2	7.5	30.5	43.8	4.6	13 D	B?
525214.6	6868099	784.3	34	1.5	0	0	32.7	43.4	122.8	159.2	8.7	41.3 E	B?
525832.8	6866537	839.4	34	0	0	0	0.6	0	132.9	174.1	0	50.7 F	B?
526495.6	6864856	916.2	34	1	0	1	15.4	24.1	164.9	142	26.6	55.8 G	B?
526730.3	6864186	932.8	34	0.6	0	2	8.7	18.1	38.6	30.3	2	11.9 H	B?
526759.8	6864106	934.8	34	1.2	0	0	12.3	14	29.8	30.3	2.2	11.9 I	D
526808.6	6863983	937.9	34	0.5	0	0	8.7	22.2	40	49.6	2.2	11.9 J	D
526856.3	6863870	940.8	34	0.5	0	0	8.5	22.5	40	78.8	4.3	18 K	B?
526945.9	6863670	946.1	34	1.1	0	0	12.1	15.4	0	0	1.5	0 L	B?
527010.9	6863515	950.3	34	1.1	0	0	15.5	21.2	36.7	64.3	4.5	13.8 M	B?
527664.4	6861705	997.3	34	6	0	7	41.3	17.9	187.9	171.2	23.9	66.9 N	B?
527701.1	6861597	1000	34	1.8	0	0	29.8	31.3	187.9	171.2	23.9	66.9 O	B
527897.6	6861047	1014.2	34	2	0	0	48.9	54	377	312.8	33.4	123 9:00 PM	B?
528026.4	6860747	1022.5	34	999	0	0	12.6	0	0	0	0	0 Q	B?
528176.9	6860404	1032.9	34	0.4	0	0	7.8	25.2	52.7	117.8	0	20.8 R	B?
528490	6859655	1059.6	34	0.7	0	0	13.2	26.4	32.8	73.3	0.1	10.5 S	B?
LINE 1	481												
530582.1	6854320	1218.7	34	2.8	0	0	108.8	114.2	376.7	371.2	47.2	130 1:00 AM	B
530952.1	6853347	1247.1	34	999	37.8	0	18.1	0	200.5	0	23.1	72.8 B	B?
531121.5	6852913	1259.8	34	1	0	0	25.7	46.4	35.9	104.2	8.6	12.5 C	D
531273.6	6852570	1269.6	34	0.6	0	0	15.3	38.8	60.3	127.4	1.6	24.1 D	B?
531536.9	6851869	1291.3	34	0.2	0	1	6.8	45.7	168.5	236.1	8.2	53.5 E	S?
531580.6	6851726	1296.4	34	0.8	0	9	23.4	53.2	168.5	251	2.2	0.6 F	B?
534914.9	6843074	1760	34	0.6	19.3	0	5.7	10.5	14.8	45.4	1.4	7.4 G	S?
535554.1	6841487	1817.2	34	0.6	0	0	19	52.8	66.9	162.5	1.4	27.1 H	S

536631	6838729	1937.5	34	0.6	22.4	0	5	9	14.6	36.1	1.2	6.1 I	S?
537234.4	6837314	1984.6	34	0.6	0	1	17.5	47.9	79.4	175.9	2	29.9 J	S?
537453.1	6836614	2003.3	34	0.5	7.2	2	7.5	17.4	41.5	69.8	2.2	9.6 K	S?
538349.1	6834256	2065.5	34	3.2	23	0	18.7	10.8	59.2	30.5	9.3	18.2 L	B?
538861.9	6832930	2106.5	34	0.7	0	6	15.5	35	72.6	106.9	7.2	27 M	B?
539266.7	6831927	2145.2	34	0.4	0	0	7.8	29	51.6	92.5	2.2	19.4 N	S?
539659.1	6830882	2182.8	34	0.9	0.2	0	20.7	39	60.5	87.8	6.5	21.3 O	S?
LINE 1	485												
529269.2	6857677	3015.2	50	1	0	0	10.9	14.8	46.7	58.2	0	11.6 A	S?
529399.8	6857381	3024.6	50	2.9	0	0	25.7	17.6	80.6	54.7	2.5	22.9 B	B?
529549.9	6856967	3038.1	50	126	103.1	0	1.7	0	149.7	10.9	17.3	45.4 C	B?
529717.2	6856474	3054.5	50	1.4	1.8	2	13.4	13.8	78.9	71	3.9	19.8 D	B?
530595.6	6854315	3129.1	50	3.5	0	0	43.2	28.8	174.9	159.3	22.5	51.8 E	B
LINE 1	490												
523927.7	6872677	842.6	33	0.6	0	1	13.4	35.1	34.6	87.7	2	15.2 A	D
525194.1	6869328	925	33	0.8	4.5	0	8.3	13.1	32.1	37	1.6	9.8 B	S?
525480	6868618	943.2	33	1.2	3.8	0	13.1	15.5	49.6	50	5.5	17.2 C	D
526186.9	6866812	1004.9	33	2.6	8	1	18.8	12.8	105.3	171.8	3.6	35.2 D	S?
526205.3	6866744	1007.2	33	0.7	0	2	20.3	46.7	105.3	171.8	3.6	35.2 E	S?
526607.5	6865678	1053.7	33	263.8	12.9	0	28.9	0.9	119.7	110.3	15.2	40.3 F	E
526798.6	6865207	1065.7	33	1.6	0	2	37.6	47.8	151.9	141.5	11.2	48.5 G	B?
526972.2	6864746	1077.6	33	0.1	7.2	2	0.1	15.2	32.1	42.1	3.8	2.8 H	D
527242.1	6864041	1097.5	33	1.3	0	0	21	27	46.8	120.5	1.9	16.8 I	D
527415.4	6863592	1109.7	33	1.1	0	0	21.7	33.2	102.1	27.7	8	32.9 J	S?
527451.4	6863489	1112.4	33	1.8	3	0	18.5	17.2	102.1	202.8	8	32.9 K	S?
528108.9	6861833	1154.8	33	2.4	0	0	49.4	47.7	300.2	259.7	34.1	101 3 L	B
528339.8	6861384	1167.5	33	3	0	0	30	20.7	171.8	76.5	24.9	57.1 M	B?
528560.3	6860701	1187.6	33	0.5	1.4	0	5.8	12.2	32.1	21.8	3.8	9.8 N	D
528732.4	6860178	1204.8	33	0.6	2	0	7.3	13.6	18.3	55.5	1.8	9.8 O	B?
529053.6	6859320	1235.6	33	1.6	1.3	2	18.4	18.8	65.4	65.5	4.7	19.5 P	S?
529707.2	6857798	1281.3	33	1.7	0	0	22.4	22.8	30.6	32	0.9	10.2 Q	B?
529806.6	6857546	1288.3	33	6.2	7.9	1	26.9	10.4	48.6	44.4	0.3	0.9 R	D
529882.5	6857345	1293.7	33	17	26.8	0	13.3	2.2	31.2	21.2	5.9	10.4 S	D
530448.8	6855925	1332.8	33	3	6	0	22.2	14.1	129.3	37	11.7	37.9 T	S?
530917.3	6854600	1369.6	33	1	5.5	20	10.4	13.6	33.3	87.1	17.4	25.5 U	B?
531003.4	6854403	1375.9	33	2.5	0	0	34.8	29.2	70.3	63.1	15.8	27 V	B
531140.9	6854066	1386.1	33	2.4	0	121	43.5	39.7	132.8	90.1	12.2	36.7 W	S?

531304.3	6853650	1398.7	33	1.9	0	0	23.1	21.2	8.1	36.9	1	5 X	S?
531377.5	6853474	1403.9	33	2.8	0	81	48.8	40.4	85.2	74	6.4	23.9 Y	D
531446	6853311	1408.6	33	2.8	5.4	0	22.2	14.7	65.6	26.3	6.4	9.8 Z	B?
531545.3	6853067	1415.5	33	1.3	0	0	26.1	35.5	32.1	170.2	2.9	9.8 AA	B?
531650.8	6852751	1425	33	0.6	0	2	15.9	46.4	52.1	68.3	8.3	28.7 AB	B
531749.3	6852458	1433.6	33	1.8	0	0	32.8	36	183.2	10.3	9.2	54.2 AC	B?
531789.9	6852348	1436.9	33	0.8	0	5	22.5	47.5	113.1	200.5	3.8	43.4 AD	B?
532488.6	6850511	1503.6	33	0.7	3	0	8.3	13.8	22.3	65.8	0.2	11 AE	B?
532775.3	6849694	1537.9	33	0.7	0	0	19.2	50.2	102	200	2.4	33.6 AF	B?
534683.5	6844850	1706.6	33	0.6	5.8	0	5.5	10.7	11.5	21.8	2.9	3.5 AG	B?
535792.2	6841929	1810.7	33	0.3	0	0	5.3	24.1	25.5	53.9	1	9.2 AH	B?
539187.3	6833322	2140.4	33	0.3	0	0	3.8	11.8	32.1	37	0.2	9.8 AI	B?
LINE 1	498												
520902.9	6880311	9974.7	54	2.9	14.2	0	23.6	15.6	155.4	105.7	8.6	39.2 A	S?
520927.7	6880251	9972.4	54	1.5	5.4	0	23.6	26.8	155.4	105.7	8.6	39.2 B	S?
LINE 1	500												
520739.1	6881864	3828.4	32	1.2	4.4	0	12.3	14.6	111.2	119.1	7.6	32.9 A	S?
522251.2	6878056	3933.2	32	0.7	0.2	12	9	15.7	10.1	11.2	0.2	5.6 B	B?
522672.3	6876906	3963.2	32	0.5	0	0	12.4	40.5	65.8	168.1	5.1	28.8 C	B?
523693.4	6874271	4032.8	32	1.3	4.8	0	13.5	14.6	27.7	37.4	0.9	6.2 D	D
524916.7	6871077	4117.9	32	1.4	8.3	0	12.2	12.2	49.5	118.6	2.8	22.6 E	B
524959.6	6870975	4120.6	32	0.5	0	0	8.2	24.1	49.5	118.6	2.9	22.6 F	B
525511.6	6869579	4156.9	32	0.7	0	0	12.6	23.8	62.6	105.8	6.1	22.5 G	B
526893.3	6865940	4272.9	32	1	0	1	20.1	32.2	178.8	167.1	25.9	67.3 H	B?
527100.3	6865455	4286.2	32	121.9	18	2	21.4	1	119.5	65.2	11.1	36.6 I	B?
527391.9	6864660	4307.1	32	0.6	0	0	7	14.9	11.2	13.6	1.4	5.4 J	S?
527847.9	6863528	4336.8	32	0.5	0	0	9.7	24.7	23.3	71.1	2.8	10.4 K	S?
528466.7	6862010	4373.6	32	0.4	22.4	0	2.5	4.6	10.2	152.4	2.1	3.5 L	E
528557.9	6861763	4379.7	32	3.2	0	0	41.4	29.4	184.6	84.2	39.2	69.3 M	D
528595.3	6861653	4382.5	32	2.4	1.9	37	23.1	18	184.6	197.7	1.6	4 N	B?
529454.1	6859446	4456.8	32	0.9	0	0	21.1	40.2	39	111.3	0.9	17.6 O	S?
529721.2	6858746	4478.7	32	0.8	0	1	11.4	18.9	88	140.5	4.3	30.7 P	S?
530096.5	6857772	4506.1	32	999	11.5	0	33.6	0	108.1	66.3	16.8	34.8 Q	B?
530143.8	6857641	4509.4	32	6	5.2	2	30	12.1	108.1	66.3	16.8	34.8 R	D
530215.3	6857450	4514.2	32	0.9	5.5	0	9.3	12.9	24.4	29.3	1.5	5.6 S	B
530246.9	6857365	4516.3	32	0.5	59	0	1.1	1.6	10.1	11.2	0.9	3.3 T	B
530328.5	6857161	4521.4	32	2.5	0	0	45.7	40.8	99.2	116.8	8.3	33.2 U	B

531181.8	6855041	4574.6	32	3	0	0	42.9	32.3	152.9	91.9	25.2	59.1 V	B?
531318.6	6854628	4585.3	32	1.2	0	0	23.4	33	158	166.5	19.4	62.5 W	B
531339.8	6854562	4587	32	1.9	0	0	35.8	38.7	158	166.5	19.4	62.5 X	B?
531560.5	6853929	4604.3	32	1.6	5	0	15.3	14.8	32.1	23.6	0.9	10.3 Y	B?
531682.1	6853651	4611.9	32	0.3	0	20	5.3	21.4	36.1	90.6	0	9.8 Z	B?
531925.2	6853129	4627	32	215	358.5	0	0	0	275.2	243.6	35.4	90.9 AA	B
531962	6853046	4629.3	32	5	0	0	70.2	40.3	275.2	243.6	35.4	90.9 AB	B
532059	6852815	4635.6	32	0.2	30.2	0	0.7	2.1	10.1	5.2	0.9	3.3 AC	B
537888.3	6837702	5199.5	32	999	28	0	15.9	0	70.5	49.4	3.8	16.1 AD	B?
538181.3	6836937	5221.9	32	0.6	0	0	7.7	17.3	30.3	112.4	2.2	16.2 AE	S?
540077.9	6831984	5397.1	32	0.4	0	2	4.1	10.7	15.9	55.9	0.9	7.1 AF	S?
LINE 1	510												
520935.6	6882524	3623.1	32	0.8	9.3	0	8.5	12.4	22.5	37.2	2.7	8.6 A	S
521278.1	6881617	3596.6	32	0.3	0	0	6.8	27.6	48.7	143.9	2.9	23.1 B	S
521461.5	6881114	3577.3	32	0.6	7.5	10	6.4	11.9	13.3	50	0.3	7.1 C	S?
521734.4	6880478	3559.4	32	0.6	0	4	9.1	19.5	24.7	54.5	1.1	9.9 D	S?
522649.8	6878023	3491.5	32	0.8	0	0	19.2	38.2	60.6	120.5	0	21.6 E	S?
522911.5	6877375	3472.5	32	1	0	3	17.1	27.3	0	53.9	2.3	10.8 F	S?
523811.6	6875073	3405.6	32	1.1	10.9	0	10.4	12.3	20.8	34.4	0.9	5.7 G	S?
524632.4	6872951	3343.8	32	0.5	0	0	12.8	44.6	86	215.5	4.4	39.6 H	S?
525122.1	6871725	3308	32	0.6	9	1	6	11	37.5	49.1	3.7	12.6 I	D
525275.1	6871347	3296.8	32	0.5	0	0	8	18.5	0	63.9	0.1	7.7 J	B?
525514	6870696	3278.7	32	0.5	0	1	8.2	20.3	68.6	153.3	4.6	30.7 K	B
525680.6	6870258	3266.2	32	1.9	17	0	12.3	9.5	51	57.1	6.3	16.9 L	B
525819.9	6869899	3256.1	32	0.6	0	0	11	24.4	15.9	80.5	0	8.7 M	D
526585.3	6867923	3193.5	32	0.1	17.4	0	0	31.7	92.4	163.6	8.1	36 N	D
527124.9	6866556	3107.2	32	1.2	0	1	18.3	23.9	190.4	260.5	0	62.8 O	B?
527196	6866354	3100.3	32	2.3	0	0	35.5	31.9	98.6	111.6	10	29.2 P	B?
527484.6	6865590	3076.4	32	1.3	0	1	21.1	27.9	139.5	213.8	9.5	46.9 Q	B?
527599.9	6865298	3068	32	1.7	0	0	42	51.5	53.5	42.5	0	12.2 R	B
527765.5	6864902	3057.3	32	1.3	0	1	21.7	28.3	171.6	177.7	1	33.9 S	B
528050.1	6864215	3037.1	32	0.7	0	1	19.8	45.7	50.8	143.8	0	25.1 T	B?
528138.1	6863971	3029.4	32	1.2	0.1	0	17.7	23.2	58.4	83	0.3	21 U	B?
528238.2	6863689	3020.3	32	0.7	0	0	15.9	34	58.7	110.1	5	24.2 V	B?
528373.9	6863343	3009.2	32	0.1	17.4	0	0	52.1	270.3	402.6	18.7	91 W	B?
528820.9	6862189	2963.4	32	1.7	0	0	34.1	40.6	245.4	224.1	25.4	86 X	B?
528863	6862086	2960.3	32	215	362	0	0	0	0	0	25.4	0 Y	B?

529138.1	6861466	2942.7	32	0.4	0	0	6.8	22.2	14.5	51	2	8.5 Z	S
529487	6860420	2910.7	32	0.3	0	0	4.9	18.9	10.4	74.7	1.5	10.2 AA	S
529574.8	6860204	2900.8	32	0.3	0	0	3.4	12.3	0	53.8	1.2	6.7 AB	S
530140.7	6858782	2851.8	32	0.6	0	0	9.1	21	31.8	66.8	1.4	13.9 AC	S?
530439.8	6857970	2827	32	2.5	4.2	25	25.7	19.4	96.5	77.6	14.5	32.7 AD	B?
530928.9	6856782	2791.4	32	0.7	0	0	22.3	58.6	134.5	218.6	6.1	47 AE	S?
531328.3	6855758	2760.9	32	3.6	0	0	77.5	59	180.3	141.2	29.1	57.9 AF	B
531509.9	6855255	2745.8	32	1.4	0	0	31.1	41.9	90.3	155.1	1	28.1 AG	B?
531660.1	6854863	2733.4	32	52.7	18.3	15	23.6	2.1	79.5	100.7	4.1	21.1 AH	B?
531743.1	6854650	2726.8	32	1.3	2.6	0	17.4	20.4	98.9	131.8	0	21.1 AI	B?
531829.1	6854419	2719.7	32	2	14.1	0	14.3	11	0	0.1	0	0.2 AJ	B?
531932.9	6854173	2711.8	32	3.1	0	0	49.1	37.1	38.9	76	9.8	16.9 AK	B?
532020.8	6853938	2704.8	32	2	0	0	46.6	51.1	108.8	106	8.3	36 AL	B?
532044.6	6853875	2703	32	1.1	0	0	19.3	28.1	108.8	106	8.3	36 AM	B?
532165.1	6853601	2694.8	32	2.2	0	5	58.1	63.6	132.2	183.3	2	44.8 AN	B?
532352.3	6853178	2681.4	32	0.9	0	39	18.1	31.5	78.7	82.4	7.2	29 AO	B?
532475.1	6852850	2671.5	32	1.1	0	16	20.8	31	156.3	170.7	16.4	54.3 AP	B?
532644.7	6852299	2653.4	32	0.1	0	28	0.3	24.9	2.1	167.1	0	1.3 AQ	B?
532704.6	6852155	2647.9	32	1.3	6.2	0	14	16.3	136.2	32.8	16	47.9 AR	B?
532746.1	6852074	2644.6	32	1.4	0	0	30.2	40.5	89	84.7	0	23.8 AS	B?
532792.1	6851965	2640.1	32	2.9	0	0	37	27.4	89	50.9	8.5	6.8 AT	B?
533926	6848991	2496.6	32	0.4	0.7	2	4.6	12.2	42.7	69.4	2.6	15 AU	S?
533996.1	6848810	2488.2	32	0.7	0	0	13.4	26.9	84.5	170.9	2.7	31.9 AV	S
538945.3	6836035	2054.9	32	1.4	3.9	0	16.9	19	68.2	70.4	8.8	20.6 AW	B
539545.1	6834584	2008.8	32	0.7	0	0	21.6	51.7	60.5	131.9	3	26.4 AX	S?
LINE 1	520												
520641.4	6884290	2536.1	8	1.1	0	0	20.9	31.3	103	83.5	11.8	31 A	D
523953.8	6875781	2777.1	8	0.1	0	0	1.6	22.3	60.2	62.4	5.3	17.5 B	B?
524305.1	6874868	2803.5	8	0.1	5.7	0	0.2	22.2	0	0	0.1	0 C	E
525141.4	6872690	2863.3	8	0.6	0	0	10	21.2	27	32.1	2.5	9.2 D	B?
525514.6	6871733	2890.1	8	0.6	2.2	0	7.3	15.4	11.8	0	0.6	0 E	B?
525623.9	6871468	2897.5	8	0.9	6.3	1	10.7	15.8	43.9	76.1	3.7	14.1 F	B?
527001.1	6867934	3000	8	991.7	45.8	2	9.8	0	0	79	0.1	0 G	E
527641.5	6866390	3072.7	8	6.9	0	0	65.4	28.9	106.3	11.4	49.3	28.1 H	D
527686.1	6866249	3076.9	8	1.4	0	0	30.3	42	0	81.9	0.1	0 I	B
527856.9	6865688	3092.1	8	0.1	18.6	0	0	31	21.9	115.7	1.2	8 J	B
528045.2	6865238	3104.4	8	0.9	0	0	16.5	27.1	55.3	66.8	0.1	19.7 K	B

528816.4	6863274	3157.4	8	0.9	0	2	23.8	43.9	167.4	189.1	21	53.4 L	B?
528937.3	6862938	3168.2	8	0.8	11.9	0	8	11.5	0	21.4	1	0 M	B?
529155.4	6862380	3193	8	0.4	8.6	0	4	9.2	325.1	404.4	25.1	109 3 N	B
529186.9	6862315	3196	8	1.4	0	0	45	71.3	325.1	404.4	25.1	109 3 O	B
530315.8	6859343	3297.6	8	0.4	0	0	5	14.3	17.1	0	0.8	0 P	D
530376.7	6859186	3302.3	8	0.3	0	0	3.5	12.9	16.4	15.9	1	3.6 Q	B?
530797	6858099	3334.4	8	2.6	14.4	26	17.2	11.4	39.2	0	0	0 R	D
532053.6	6854852	3429.6	8	0.5	0	0	8.2	23.9	23.3	37.5	0	6.3 S	S?
532230.8	6854361	3443.5	8	2.1	0	31	49.5	53.9	139.4	111.8	16.1	45 T	B
532269.9	6854266	3446.2	8	3	0	0	56	46	139.4	111.8	16.1	45 U	B
532591.5	6853488	3469	8	0.9	9.1	0	9.3	13.5	0.1	0	0	0 V	B?
532667.9	6853283	3475.3	8	1.5	2.3	29	20.4	22.9	124.1	96.6	14.9	36.1 W	B?
532797.9	6852928	3486.2	8	1.9	0	0	53.4	63.9	98	169.7	8.5	29 X	B?
533017.6	6852423	3501.8	8	4.8	0	0	85.7	53.3	330.6	187.4	39.4	100 3 Y	B?
534445.5	6848700	3624.1	8	0.1	0	1	0.5	8.7	22.7	67.4	1	10.9 Z	B?
537367.5	6841251	3845.3	8	0.1	18.6	0	0	9.5	0	0	0.1	0 AA	B?
538938.6	6837161	3981.5	8	0.5	0	0	9.5	24.1	28.9	66.5	2	13 AB	B?
539982.8	6834276	4084.8	8	0.8	0	1	12.8	23.7	84.2	142.3	6	26.2 AC	S?
LINE 1	530												
520602.6	6885574	5880.5	8	0.4	0	0	4.6	12.7	39	89.5	2.2	16.3 A	S
520956.2	6884632	5852.7	8	2.1	0	0	42.6	43	132.9	90.6	19.4	44.4 B	D
523328.8	6878601	5649.6	8	0.7	0	1	10.3	20.7	18.9	22.8	0.6	0 C	D
524321	6876092	5573.4	8	0.9	0	0	12.6	19.2	38.7	50.4	3.6	13.4 D	D
524659.4	6875148	5537.4	8	1.3	0	0	16.6	19.9	40.9	104.1	3.2	15.9 E	D
524757.8	6874890	5528.3	8	0.6	0	1	9.6	23.1	35.8	112.5	2.6	0 F	D
524878	6874564	5516.1	8	0.5	0	0	11.1	30.3	44	96.8	0.5	13.5 G	D
525020.9	6874147	5500	8	1.2	2.6	0	13.5	16	2	94	5.6	0 H	B?
525852.4	6872023	5431.5	8	0.7	0	0	19.4	44.9	79.5	161.8	6	30.3 I	B?
526109.4	6871263	5406.7	8	0.4	0	0	5	14.5	30.2	73	3.4	11.2 J	D
526887.2	6869271	5347.3	8	1	6.8	0	9.7	12.2	11.3	21.1	2.7	4.9 K	D
527000.4	6868958	5337.6	8	1.5	0	0	27	32.4	87.6	100.4	12.2	29.5 L	B?
527703.3	6867156	5260.5	8	0.5	0	0	9.9	25.1	63.6	164.8	0.4	23.3 M	S?
527919.4	6866532	5236.8	8	7.8	0	0	153.9	77.1	216.1	78.2	107.1	69.7 N	B
527966.9	6866400	5232.4	8	0.9	0	0	14.5	22.9	0	28.2	0.4	0 O	D
528104.4	6866096	5221.7	8	0.6	0	0	9.4	21.8	17	58.9	1.1	5.4 P	S?
528234.2	6865786	5211.1	8	0.1	0	0	0.4	2.9	226.6	299.4	0.6	68.4 Q	E
528287.1	6865646	5206.4	8	999	26.7	0	16.5	0	226.6	0	12.8	68.4 R	B?

528363.8	6865433	5199.5	8	0.6	0	1	9.2	18.5	60.5	103.5	5.4	20 S	B?
528728	6864540	5170.7	8	1.6	1.6	0	17.6	17.7	63.2	101.3	0.6	20.5 T	D
529122.9	6863428	5134.7	8	20.6	15.5	0	21.3	3.4	144.3	136	22.4	46.8 U	B?
529439.4	6862756	5111.3	8	1	0	2	26.9	50.5	35.6	87.1	1.4	12.1 V	D
531178.8	6858214	4973.4	8	0.1	0	19	0.6	20.7	97.5	55.6	11.4	24.2 W	B?
531235.3	6858068	4969	8	2.5	7.2	0	18.5	12.9	97.5	104.4	14	31.2 X	B?
531789.1	6856575	4925.2	8	0.1	4.8	29	0.6	3.4	131.9	14.6	10.7	37.8 Y	B?
531831.8	6856454	4921.6	8	2.1	0	0	24.1	20.7	131.9	138.9	10.7	37.8 Z	B?
531884.6	6856314	4917.4	8	0.6	0	0	14.8	38.3	88.5	138.9	6.8	28.7 AA	B
532004.9	6856011	4908.3	8	1	0	0	13	17.8	89.1	136.4	10.1	30 AB	B?
532240.8	6855495	4893	8	0.4	0	0	7.1	23	31.3	85.4	2	11.8 AC	S?
532348.1	6855165	4883.6	8	1.4	10.2	0	11	10.9	0	2.5	7.8	2.2 AD	B?
532408.9	6854987	4878.5	8	0.8	0	0	22.7	54.3	96.5	126.9	0.6	26.7 AE	B?
532439.6	6854906	4876.1	8	0.1	0	137	1.9	17	96.5	126.9	0.2	26.7 AF	B?
532551.9	6854627	4867.4	8	1.4	8.2	0	11.8	12.1	76.4	101.4	2.3	21.4 AG	B?
532668.8	6854281	4856	8	1.5	0	11	33.4	42.9	121.9	133	6.8	33.9 AH	B?
532724.7	6854127	4850.8	8	1.3	0	0	35.4	55.6	144.3	188.7	6.7	43.4 AI	B
532827.4	6853847	4842.3	8	183.7	0	0	70.6	3.4	0	14.6	0.6	0 AJ	B
532922	6853625	4835.6	8	2.9	0	0	64.7	55.9	274	255	43.8	93.9 AK	B?
533200.6	6852990	4816.5	8	0.4	0	0	10.3	45.2	195.1	321.6	14.8	69.1 AL	B?
533242.1	6852911	4814	8	0.9	0	0	41.4	96.5	195.1	321.6	5.7	69.1 AM	B?
533547.1	6852098	4783.1	8	0.3	0	9	4.1	16.3	22.2	44.6	2.7	8.3 AN	S?
533644.9	6851877	4770.5	8	0.6	0	0	7.2	14.7	24.1	0	3.5	7.8 AO	B?
533785.3	6851519	4756.3	8	0.9	7.8	0	8	11.1	47.5	21	7.5	13.1 AP	D
533816.6	6851416	4753	8	1.3	0	0	16.4	19.1	47.5	38.8	7.5	13.1 AQ	B?
538116.4	6840307	4366.7	8	0.1	0	0	0.8	10.3	13	13	1.3	4.2 AR	B?
539579.6	6836524	4252.1	8	0.5	0	0	9.8	25.2	39.1	62.6	4.8	12.3 AS	D
539953	6835620	4219.4	8	0.2	0	1	3.7	16.8	0	100.3	0.6	12.1 AT	S?
LINE 1	540												
529196.8	6864554	6642.7	8	0.5	2.1	0	6.9	18.7	121.4	126.4	13.8	38.4 A	B?
529618.3	6863551	6675.1	8	0.1	0	0	0.7	14.9	12.9	86.5	1.3	3.5 B	B?
529705.1	6863327	6682.8	8	3.7	19.8	5	21.1	11.2	2.9	96.8	0	0 C	S?
530042.8	6862422	6712.4	8	0.1	24.9	1	0	10.1	13.2	22	1.5	3.4 D	S?
530868.6	6860086	6807.2	8	0.8	9.1	3	11	18.5	0	25.1	2.5	0 E	S?
531417.3	6858889	6842.1	8	2.1	11.1	0	23.7	20.2	116.6	138.9	10.5	36.4 F	B?
531473.2	6858761	6845.9	8	0.4	0	0	5.8	19.6	116.6	138.9	10.5	36.4 G	B?
532315.1	6856542	6911.9	8	925.1	58.4	0	8	0	0	0	6.4	0 H	B?

532734.6	6855470	6943.7	8	0.6	0	291	17	50.2	9.8	139.7	3.2	29.8 I	B?
532935.9	6854975	6957.5	8	0.8	0	0	24.6	54.6	95	135.1	0.5	33.2 J	B
533037.1	6854711	6964.9	8	0.2	0	0	4.7	23.5	127.5	75.5	1.6	38.2 K	B?
533124.1	6854470	6971.3	8	4.6	0	0	93.5	62.3	220.9	155.4	33.6	64.7 L	B?
533259.2	6854094	6981.3	8	215	369.5	72	0	0	247.1	147.6	25.5	53.8 M	B?
533335.4	6853908	6986.5	8	0.1	24.9	0	0	78.4	0	2.7	0	0 N	B
533406.9	6853745	6991.4	8	0.6	0.2	6	10.9	25.5	0	0	0	0 O	B
533455.4	6853629	6995.1	8	1	3.2	0	17.5	28.5	0	68.7	0	0 P	B?
533646.9	6853119	7012.4	8	0.3	4.8	246	4.2	12.9	10.4	30.5	0.1	4.2 Q	S?
534093.1	6851942	7050.6	8	0.1	23.9	0	0.1	1.9	36.9	43.4	0	11.5 R	B?
535277.9	6848926	7144.8	8	0.3	1.5	0	3.3	12.9	31.2	42.5	3.9	8.5 S	B?
537930.8	6842142	7376.6	8	0.4	0	1	6.4	19.4	28.4	71.5	2.7	13.1 T	S?
538993.3	6839415	7467.5	8	0.5	4.8	1	6.1	15.9	14.6	24.9	0.6	3.4 U	S?
539878.8	6837163	7528.9	8	999	32.1	0	21.2	0	66.5	60.7	8.7	20.6 V	B?
540016.3	6836812	7538.6	8	1.5	13.2	1	16.2	17.2	33.8	44.7	3.8	10.6 W	B?
540221.1	6836259	7554.1	8	0.6	11.9	4	7.1	13.8	37.8	49.4	4.4	13.9 X	B?
LINE 1	545												
521301.2	6884960	1949.7	50	4.2	16.1	0	19.9	9.4	63.4	65.5	0	20.8 A	B?
521709	6883895	1917.1	50	1.5	14.9	0	11.8	11.2	0	34.2	4.6	8.1 B	S?
522121.4	6882796	1881	50	1.2	11.4	0	11.7	13.1	52.2	62.6	4.5	16.2 C	B
522193	6882529	1871.9	50	0.1	18.7	0	0.1	16.4	0	68	0	0 D	B?
523262.7	6879868	1780.4	50	0.3	0	0	5.5	19.1	27.2	87.3	2.1	12 E	S?
523587.3	6878979	1751	50	0.2	0	0	3	15.8	59.9	179.3	2.8	24.2 F	S?
523617.7	6878915	1748.5	50	0.8	0	0	20	42.4	59.9	179.3	2.8	24.2 G	S?
524646.7	6876377	1667.7	50	0.1	18.7	0	0.1	12.9	0	5.2	0	0 H	E
525235.1	6874742	1614.1	50	0.9	14.1	0	7.8	10.6	0	15.5	0.9	3 I	D
527822.7	6868060	1408.2	50	0.8	8.4	0	8.4	13.4	49	52.2	5.4	13.2 J	B?
528199.6	6867123	1379.4	50	4.2	18	0	18.3	8.5	21.2	10	18	6.3 K	D
528686.4	6865818	1340.3	50	1.3	0	1	24.4	32.4	0.7	117.9	0	0 L	B?
529293.8	6864256	1292.9	50	0.9	7.1	0	10	15	44.1	42.5	6.5	16.1 M	D
LINE 1	550												
521244.2	6886127	1366.4	9	0.4	0	5	5	13.1	18.2	26.8	1.6	5 A	S?
521568.2	6885207	1389.8	9	4.2	3	8	36.4	20.1	73	33.5	1.7	22.8 B	D
521636.2	6885029	1394.4	9	1.2	10.2	0	11.8	13.3	0.6	27.4	13.7	0 C	B
521725.9	6884799	1400.6	9	1.3	15.7	0	9.8	10.1	5.6	34	0.5	23.9 D	B?
521784.1	6884671	1404.2	9	0.7	3.8	0	9.2	16	99.4	103.3	5.2	23.9 E	B?
522022	6884121	1420.7	9	1.2	5.2	28	13.7	17.2	30.4	29.9	3.2	7.7 F	S?

522147	6883807	1429.1	9	0.4	0	0	5.6	15.1	17.9	56	1.9	8.5 G	S
523926.5	6879169	1560.2	9	1.1	17.3	0	8.3	9.2	33.7	96.7	0.6	8.4 H	B?
525408.4	6875333	1663.4	9	0.7	0	0	11.5	22.4	14.7	34.4	2	5.1 I	S
527447.6	6870125	1796.3	9	1.2	10.1	0	11.4	13.2	24.4	54.6	7.8	11.4 J	B?
527490.6	6870034	1798.7	9	0.8	12.3	0	7.6	10.8	29.4	32	4.8	21.2 K	B?
527576.6	6869851	1803.5	9	1	0	0	15.7	23.6	66.7	120.1	5.8	22.6 L	B?
527625	6869744	1806.2	9	64.2	22.2	1	20.2	1.5	3.4	0	5.2	0 M	B?
528245.4	6868068	1848.3	9	0.6	0	0	9	19.4	70	70.9	17.7	23.3 N	D
528255.4	6868037	1849	9	0.1	0	0	0.3	19.4	70	70.9	17.7	23.3 O	B
528711.6	6866828	1876.8	9	1.1	0.6	2	15.7	22.2	0.6	0	0.5	0 P	B?
528836.1	6866517	1885.3	9	0.7	0	0	13.7	28.8	7.6	38.5	0.1	4.2 Q	B?
528975.1	6866142	1896.7	9	2.5	16	0	15.1	10	173.9	244.9	2.5	55.2 R	B?
529014.7	6866047	1899.3	9	0.6	0	0	16.1	44.9	173.9	244.9	7.6	46.4 S	B?
529404.8	6865092	1924.3	9	0.7	0	0	16.7	36.1	99.3	200.9	7.4	36.5 T	B
529467	6864931	1928.6	9	1.3	10.9	0	12.1	12.9	3.4	29.5	6.3	0.2 U	B?
529551.4	6864699	1934.8	9	0.3	70.5	0	0.6	1.1	130.6	105.9	13.6	37.9 V	B?
529631.8	6864476	1941.2	9	0.7	0	0	14.4	31	5.7	29.8	0.5	0 W	B?
529705.9	6864298	1946.4	9	2.2	5.3	13	22.8	18.5	89.7	33.4	0	1.8 X	D
529761.6	6864169	1950	9	0.7	1.4	17	9.3	17.5	60.8	62.7	7.3	17 Y	B?
529793.6	6864091	1952.1	9	1.6	6.6	18	16.8	16.8	60.8	62.7	7.3	17 Z	B?
529856.5	6863930	1956.3	9	1.1	9.3	0	10.8	13.5	31.5	24.5	13	14.3 AA	D
529926.4	6863715	1961.6	9	1.5	0	0	26.7	32.9	93.6	67.6	0.3	30.5 AB	D
530055.8	6863347	1971.8	9	0.4	0	0	5.7	18.5	35.5	122.1	0.5	19.3 AC	S?
530338.8	6862572	2000	9	0.3	0	0	4.2	18.3	31.1	23.1	0.8	2.8 AD	S
531204.4	6860402	2066.3	9	0.3	0	0	4.2	18.8	15.3	56.8	0.5	5.5 AE	S?
531357.7	6860001	2079.1	9	0.7	4.1	0	8	14.9	47.7	68	0.5	15.5 AF	B
531478.3	6859652	2089.2	9	0.9	0	0	21	40.5	104.9	189.4	7.4	34.9 AG	B
531555.9	6859457	2095	9	0.4	0	0	11	47	16.7	0	2	0 AH	D
531632.6	6859280	2100.6	9	2.6	5.3	38	25	18.4	21.1	0.3	0.5	5.5 AI	B?
531739.6	6859016	2108.1	9	854.5	59	0	6.3	0	99.8	119.6	12.9	30.5 AJ	B?
531989	6858431	2125	9	1.6	0	27	41.9	56.3	100.3	174.9	3.3	29.8 AK	B?
532121.6	6858106	2134.7	9	2.5	16.3	0	15	9.8	25.7	44.7	0.5	5.3 AL	B?
532193.8	6857906	2140.7	9	1.2	0	17	18	23.8	21.1	36.3	3.4	6.7 AM	B?
532253.3	6857748	2145.7	9	0.8	0	0	13.4	24.5	33.3	59.5	0.5	13.1 AN	B?
532371.5	6857416	2156	9	2.1	0	0	63.2	74.1	301.1	241.3	15.9	78.8 AO	B?
532393	6857360	2157.8	9	2.1	0	0	65.4	75	301.1	241.3	15.9	78.8 AP	B?
532952.9	6855897	2199.1	9	0.8	0	0	13.4	23	59.8	69.1	7.2	19 AQ	S?

533144.2	6855375	2213.3	9	2.1	21.3	0	11.2	7.8	78.8	78.5	12.7	26.6 AR	B?
533258.7	6855089	2221.1	9	3.1	0	0	51.5	39.9	110.4	38.3	6.9	26.9 AS	B?
533342.8	6854886	2226.5	9	0.1	17.7	0	0	1.8	151.1	114.7	10.2	39.9 AT	B?
533486.2	6854578	2235.5	9	1.7	0	52	38.5	45.4	178.2	156.9	9.7	43.9 AU	B
533520.5	6854490	2238	9	2.2	0	89	52.3	54.5	178.2	156.9	9.7	43.9 AV	B?
533566.2	6854356	2241.8	9	0.4	0	0	6.9	19.7	0.6	0	3.5	0 AW	D
533624.1	6854195	2246.3	9	1.3	15.3	0	9.9	10.3	15.3	0	1	0 AX	D
533884	6853609	2262.6	9	0.5	8.4	0	4.2	9.4	71.7	72	7.6	19.5 AY	B?
534952.2	6850861	2333.5	9	1.3	12	0	11.6	12.2	75.1	122.7	6.3	24.3 AZ	B?
536122.2	6847792	2438.9	9	0.1	0	1	1.6	16.1	16.4	52.1	1	7.5 BA	B?
536155.6	6847698	2448.4	9	0.1	9.2	0	0.2	12.3	9.4	25	1.7	3.4 BB	B?
536232.8	6847480	2460.4	9	0.4	21.6	0	2.8	5.6	0.6	0	0.1	0 BC	B?
LINE 1	560												
528238.5	6869279	8899.6	8	1.1	1	0	10	12	0	0	1.6	4.3 A	D
529001.5	6867391	8837	8	0.2	0	1	2.8	12.1	13	39.5	1	3.4 B	B?
529034.6	6867285	8833.4	8	1.5	0	0	21.6	24.4	62.9	0	6.1	15.2 C	S?
529259.4	6866635	8805.8	8	3.3	149.5	1	0.6	0.1	0	53.7	0	0 D	E
529519.3	6866011	8783.6	8	5.2	12.9	0	14.8	5.6	0	0.1	0	0 E	B?
529829.5	6865222	8756.6	8	1.4	0	0	24.6	30.3	100.3	92.9	12.3	30.8 F	B?
530059.6	6864579	8733.2	8	0.8	0	0	9	14.5	18.3	14.6	1.6	5.1 G	D
530126.2	6864409	8727.1	8	1.9	0	12	18.3	15.9	62.4	41.5	6.5	14.2 H	B?
531900	6859924	8554	8	0.6	0	0	9.6	19.1	15.1	36.9	0.9	5 I	B?
532034.1	6859532	8542.5	8	0.5	0	0	9.5	23.6	0	71.4	4.1	0 J	D
532275	6858912	8524.1	8	1.4	0	0	20.9	24.3	73.4	109.1	0	19.1 K	B?
532312.1	6858817	8521.3	8	1.5	0	0	26.8	33.4	73.4	109.1	7.5	19.1 L	B?
532427.3	6858524	8512.7	8	999	0	10	52.2	0	0	0	20.5	0 M	B?
532466.6	6858427	8509.8	8	103.1	21.7	13	13.6	0.7	172.9	223.4	20.5	46.8 N	B?
532504.9	6858337	8507.1	8	1.5	0	13	37.4	50.5	172.9	223.4	14.9	46.8 O	B?
532574.1	6858162	8501.8	8	0.1	0	0	0.6	35.3	0	70	0	0 P	B?
532636.6	6858002	8496.9	8	2.7	0	31	73.3	71.8	326.2	212.8	34.7	94.8 Q	B?
532911.8	6857293	8471.2	8	1	0	0	22.8	38.3	155.7	143.7	10.4	39.4 R	B?
532938.4	6857221	8468.4	8	1	0	101	13.9	19.8	155.7	143.7	1.6	39.4 S	B?
533011.3	6857000	8460.4	8	1.6	0	0	39.2	50	159.8	170.1	19.2	52.1 T	B?
533062.1	6856856	8455.3	8	7.6	3.1	0	25.3	8.3	0	68.4	1.6	0 U	B?
533158.6	6856608	8445.8	8	1.1	0	0	20.6	30.3	35.3	15.1	1.6	8.2 V	B?
533371.4	6856029	8422.8	8	0.4	0	0	13	50.1	96.8	156.8	10.1	33.5 W	B?
533610.8	6855448	8398	8	999	11.2	0	24.5	0	154.4	149.5	11.2	42.3 X	B

533763.3	6855032	8379.5	8	1.8	0	0	44.4	52	134.4	125.2	12	37.2 Y	B?
533799.9	6854956	8376.5	8	1.4	0	0	32.9	45.7	134.4	125.2	12	37.2 Z	B
533888.5	6854777	8368.7	8	0.1	7.1	98	0	13.4	0	17.1	1.3	2.9 AA	B
534039.8	6854395	8353.6	8	5.8	2.6	0	24.1	9.5	140	109.7	15.9	41.5 AB	B
534357.1	6853543	8325.6	8	1.8	0	0	50.1	61.5	152.5	148.3	16.8	45.9 AC	B
538500.3	6842853	7954.2	8	0.2	0	2	4.2	25.9	24.1	84.2	1.7	11.6 AD	S
538838.2	6841957	7923.2	8	0.1	0	0	0.6	4.8	0	58.3	0.9	10.2 AE	B?
540956.4	6836545	7750	8	0.2	0	0	2.9	17.2	34.4	56.2	2.7	11.1 AF	B?
541071.5	6836293	7736.9	8	0.4	0	0	4.3	10	18.2	44.7	1.5	7.4 AG	S
541173.3	6835989	7720.8	8	0.1	0	0	1.4	15.7	27.6	61.3	2.4	11.2 AH	S?
LINE 1	561												
520753.6	6888452	1113.1	9	0.2	0	0	3.1	19.1	45.9	122.1	4	19 A	S
521568.9	6886365	1044.2	9	0.5	0	6	6.5	15.7	18.3	39.3	1.1	6.1 B	S?
522113.5	6884958	1002.6	9	1	0	0	9.7	12.5	14.3	18.8	1.9	3.5 C	S?
522388.8	6884269	981.7	9	52.9	9.3	0	17.3	1.4	77.6	128.9	4.1	23.9 D	S?
522418.2	6884201	979.5	9	0.7	0	0	17.3	41.5	77.6	128.9	5.9	23.9 E	S?
522603.5	6883716	963.3	9	0.5	0	0	8.9	22.1	59.5	97.7	11.2	17.4 F	S
522670.3	6883536	956.9	9	0.3	112.5	204	0.3	0.4	0	0	1.7	0.1 G	M
524248.3	6879486	798.3	9	0.6	0	0	8.9	19.6	11.9	33.6	4.7	0.9 H	B?
524422.9	6879000	777.9	9	0.5	0	3	8.7	23.7	19.8	46.2	2.5	8.9 I	B?
524903.4	6877709	738.2	9	0.5	0	0	7.3	16.2	25.4	46.1	2.5	9.4 J	B?
525130.3	6877186	722.3	9	0.7	0	0	6.1	10.4	33.6	19.2	6.1	13.7 K	B
525731.4	6875590	673.7	9	0.5	0	0	8.2	19.4	25.9	100	3	13.2 L	S
525790.3	6875433	668.5	9	0.6	0	0	11.3	25.1	5.1	38.9	1.4	7.7 M	S?
526390.7	6873898	614.1	9	0.8	0	0	15.6	30.3	43.6	78.2	1.7	15 N	D
LINE 1	565												
526563.5	6873505	938.9	50	1	6.5	0	10.7	14.2	43.3	81.1	3.6	13 A	B
527470.1	6871186	1020.3	50	0.9	0	0	14.6	24	35.1	73.5	3.7	12.3 B	B
527518.5	6871061	1024.7	50	1.5	6.9	0	14.9	15.1	0	4.7	0.9	0 C	B
527860.5	6870201	1054.8	50	1.1	0	0	18.5	26.4	65.6	95.4	3.1	21.4 D	B?
527948.4	6869957	1063.2	50	0.8	0.6	1	10.8	18.2	53.4	98.6	2.4	17.7 E	B?
528164.2	6869412	1082.4	50	1.6	7.7	0	15	14.5	44.5	69.5	2.3	13 F	B
528329.1	6868948	1098.3	50	0.9	8.2	0	8.7	12.4	41.5	64.6	3.3	13.9 G	B?
LINE 1	570												
521040.3	6888875	4841.5	9	0.6	24.1	0	5	8.6	0	33.4	1	5.9 A	S?
521270.2	6888285	4820.9	9	0.2	0	10	3.3	23.1	56.4	140.5	4.5	22.7 B	S?
522468.4	6885170	4725.5	9	0.7	5.8	0	13.1	25.3	38.3	93.1	2.1	14.4 C	S

522679.4	6884654	4710.4	9	1	16.1	0	11.2	15.3	27.9	19	4.3	6.9 D	B?
522759.4	6884444	4704.6	9	1.5	17.8	0	14.6	15.2	52	58.2	4.2	13.3 E	B
523215.4	6883264	4666	9	0.1	37.7	364	0.3	1.5	0	21.6	0.2	0 F	M
523554.6	6882410	4632.9	9	0.4	0	0	8.2	25.4	26.9	56.9	3.8	0 G	S?
523739.7	6881890	4610.7	9	1.1	16.9	0	12	15.2	31.9	76.6	2.6	12.2 H	S?
526194.8	6875505	4409.2	9	1	31.8	0	6.2	7.2	15	16	3.6	3.7 I	B?
526756.8	6874101	4366.4	9	0.4	6.7	0	5.7	15.6	26.8	39.3	3	7.9 J	D
528187.8	6870412	4253.6	9	2.3	35.9	0	9.6	6.1	38.8	36.5	2.5	11.2 K	B
528467.9	6869683	4232.2	9	0.5	13.9	0	5.6	12.3	15.7	32.8	1.6	6.1 L	B
528534.5	6869525	4227.5	9	0.7	16.9	0	7.2	12.7	11.3	23.7	0.1	0 M	B
529604.8	6866827	4143.9	9	0.9	8.9	0	13.4	22.3	0	98	0	0 N	E
529749.3	6866415	4127.9	9	0.4	0	0	9.2	30.8	28.8	92.2	4.3	12.2 O	B
529867.9	6866111	4116.2	9	1	12.8	0	13.4	18.8	89.1	136.3	0	29.3 P	B
530114.3	6865621	4097.3	9	1.3	10	1	19	23.8	86.1	108.3	14.2	28.4 Q	B
530276.8	6865223	4080.8	9	2.9	29.2	0	14.1	8.1	61.5	40.3	13.4	21.3 R	B
532240.2	6859991	3887.2	9	0.6	8.8	0	8.2	17.6	0	41	0	0 S	B?
532301.1	6859838	3883.2	9	2	16.5	0	19.9	16.8	62	41	0	17.1 T	D
532381.9	6859631	3877.7	9	0.8	17.7	0	9	13.4	38.3	30.1	7.4	13.9 U	B?
532713.8	6858751	3852.5	9	3	13.8	0	28.9	19.7	83.2	33.6	10.7	23.3 V	D
532798.6	6858550	3846.6	9	999	35	0	20.9	0	55.5	0	10.7	21.3 W	D
532874.4	6858381	3841.6	9	0.8	1.3	0	16.5	33.7	86.8	80.4	1.8	26.5 X	B
532996.6	6858076	3832.4	9	1.3	4.3	518	24.7	34.6	111.8	130.8	7.3	31.3 Y	B?
533089.6	6857766	3823.1	9	0.6	0	0	12.7	32.8	5.5	38.5	1	3.2 Z	B
533239.6	6857384	3810.1	9	2.1	9	0	29.8	27.4	159.9	164.3	1.9	50 AA	D
533378.5	6857017	3797.8	9	1.4	6.5	23	23.8	30.4	0	2.6	0	5.3 AB	D
533433.4	6856877	3793.4	9	0.5	0	8	11	29.7	122.7	151.7	12.4	43 AC	B?
533466.1	6856792	3790.7	9	0.9	1.9	73	21.2	37.2	122.7	151.7	12.4	43 AD	B?
534219.3	6854812	3723	9	1	6.1	0	17.6	28.1	104.5	123.7	15.9	34.4 AE	B
534383.4	6854401	3710.3	9	0.9	15.1	0	10.3	15.6	15.2	48.5	0.6	2.5 AF	B?
534451.8	6854245	3705.1	9	0.2	0	0	3.5	23.8	66.1	43.4	6.3	16.9 AG	B?
535532.8	6851547	3621.9	9	1.1	29.6	2	7.7	8.1	70.8	60.1	7.3	20 AH	B?
535716.4	6851046	3605.1	9	0.5	0	0	14	50.2	80.9	211	4.8	33.4 AI	S?
538630.6	6843466	3314.7	9	0.7	15.6	0	8.3	14.1	19	63.1	0	8.4 AJ	B?
LINE 1	580												
521092.7	6889869	5042.8	9	0.2	0	5	2.1	7.5	8.4	6	0.9	2.2 A	B?
521598.3	6888534	5080.1	9	0.9	0	0	14.6	24.2	38.8	80.4	1.1	13.4 B	S?
521661.2	6888376	5084.3	9	15.7	39.7	1	5.9	0.9	8.4	6.8	2.1	2.2 C	S?

522539.8	6886098	5142	9	3	0	0	32.8	23.2	81.3	72.5	9.8	25.7 D	D
523419.8	6883859	5203.1	9	0.3	0	0	3.8	11.1	21.1	33.7	1.4	5.7 E	S
524562.6	6880831	5287.9	9	0.1	0	29	2.6	20.9	17.3	65.5	1.1	9 F	S?
524795.6	6880270	5303.5	9	0.3	0	0	3.4	10	35.2	81.6	2.8	16.4 G	B?
524961.9	6879861	5316.2	9	0.6	0	0	6.3	11.4	14.9	69.5	1.7	9.2 H	S?
525941.4	6877348	5385	9	0.1	0	0	2.6	20	8.4	35.5	3.1	2.2 I	E
528313.3	6871232	5534.6	9	0.5	0	0	7.1	18.3	36.4	61.9	6.2	12.8 J	B?
528384.3	6871011	5539.5	9	0.4	0	0	2.9	7.5	21.5	38.6	3.7	7.2 K	B?
529614.4	6867859	5615.3	9	1.6	0	3	31.1	36.9	19.5	163.7	3.1	4.7 L	B?
529782.9	6867508	5628.4	9	0.8	0	0	17.9	34.3	61.9	141.5	2.8	19.7 M	S?
530094	6866752	5653.3	9	0.7	0	0	12.5	24.4	118.7	147.6	0.7	37.6 N	B
530292	6866190	5666.3	9	1.5	0	0	20.5	23.3	59.9	76.4	6.2	20.3 O	B?
530427	6865765	5676.4	9	1.3	0	0	31.5	45.8	173.8	176.4	25.8	60.2 P	B?
530554.9	6865480	5684.6	9	0.3	0	0	2.6	8.3	28	57.2	3.6	8.6 Q	B?
532099.2	6861496	5812	9	25	47.7	0	4.8	0.5	44.8	76.1	1.4	13.4 R	S?
532572.3	6860198	5847.1	9	0.7	0	9	12.1	22.4	89.1	147	6.5	25.1 S	B?
532685.5	6859899	5856.3	9	0.6	0	17	6.5	12	18.4	80.6	2.7	15 T	B?
532875.6	6859476	5868.3	9	1.4	0	11	11.4	11.4	82.2	61.8	10.9	28.4 U	B?
533114.9	6858820	5884.9	9	0.6	0	0	12.6	30.9	32.9	47.9	9.6	11.1 V	B?
533222.4	6858537	5892.6	9	1.6	0	0	22.9	25.6	88.7	48.1	14.3	27 W	D
533328.1	6858279	5899.4	9	0.8	0	0	19.5	38.2	154.9	158.3	15	47.1 X	B?
533359.1	6858201	5901.5	9	1.5	0	0	31.3	39.4	154.9	158.3	15	47.1 Y	B?
533831.9	6856962	5933.7	9	999	13.2	21	19.7	0	53.5	0	13.1	15.1 Z	B?
533892.9	6856804	5938	9	2	0	0	25	23.2	53.5	58.1	3.1	4.5 AA	B?
535069.3	6853792	6015.4	9	1.6	0	0	22	23.8	114.5	129.7	8	32.8 AB	B
541147.9	6838132	6433.5	9	0.8	0	0	14.4	26	0	59.4	6.3	17.5 AC	B?
541776.9	6836460	6485.2	9	0.7	0	0	11.8	23.1	39.8	72.3	3.5	14.3 AD	S?
LINE 1	590												
520579.2	6892259	8525.5	9	0.8	0	0	19.7	40.1	48.6	85.2	4	16 A	B?
520747.5	6891765	8511.2	9	1.4	6	0	16.1	18.4	37.5	42.2	3.6	9.3 B	B?
521329.1	6890400	8467.1	9	0.5	23	0	3.3	5.9	0	10.4	0.9	2 C	B?
521469.6	6889987	8455	9	0.4	0	0	5.8	15.5	0	14.5	0.3	7.5 D	D
521566.4	6889772	8448	9	0.4	0.7	0	5.3	13.8	27.5	0	1.8	13 E	B?
521662.6	6889577	8440.7	9	463.3	146.5	0	1	0	0	0	0.1	0 F	B?
522535.2	6887284	8369.5	9	0.6	0	0	8.9	20.2	40.1	75.6	1.8	13 G	S?
522674.3	6886885	8357.3	9	1	9.2	10	11.1	14.5	40.4	46.1	2.1	10.5 H	S?
522868.8	6886401	8342.5	9	2.2	0	0	32.4	29.5	68	57.5	8.4	19.9 I	D

523303.9	6885243	8308.7	9	1	0	0	20.8	34.4	75.5	103.5	3.5	17.7 J	S?
523520.8	6884723	8294	9	0.1	19.1	0	0	29.3	91.7	0	7.3	0 K	S?
523702	6884209	8279.3	9	0.7	16.4	0	5.7	8.9	12.8	15.8	3.5	4 L	B?
524423.4	6882469	8218.3	9	0.2	0	364	2.7	12.6	2.1	43.9	0.1	5.5 M	M
524560.4	6882076	8201.6	9	1.6	10.5	0	15.4	14.6	49.9	50.9	2.7	12.4 N	S?
525061.6	6880786	8158	9	0.1	0	0	1.6	32.2	0	38.8	0	10.1 O	S
525361.2	6879983	8131.9	9	0.7	0	0	10.9	22.8	0	89.7	4.8	13.5 P	S?
525418.5	6879823	8126.1	9	0.3	0	339	4.6	18.9	66.1	175.8	4.7	27.5 Q	S?
527365.8	6874828	7970.6	9	0.9	0	0	21.2	41.3	118.3	201.5	7.5	38.8 R	B?
527379.8	6874791	7969.5	9	1.2	0	0	28.1	41.3	118.3	201.5	7.5	38.8 S	B?
527733.5	6873853	7939.5	9	1.4	5.1	0	17	19.5	28.6	39.9	0.1	9.6 T	B
527818	6873649	7932.4	9	0.3	0	0	3.8	12.2	7.2	19.7	0.1	3.2 U	B?
528710.7	6871310	7860.4	9	1.4	0	0	27.1	35.6	78.3	70.6	11	25.1 V	B?
529645.4	6868965	7793.8	9	0.8	3	1	10.4	18.3	18.2	43.9	1.4	7 W	B?
530131.7	6867755	7750.6	9	1.1	1.3	1	16.6	23.3	49	93.2	2.9	15.7 X	S?
530313.3	6867171	7724.9	9	1.5	9.8	1	14.5	15	82.8	110.9	4	22.6 Y	S?
530418.4	6866876	7712.9	9	0.8	0	0	20.5	41.3	90.5	164.6	0	30 Z	B?
530599.3	6866463	7696	9	0.5	4.5	0	5.2	12.2	0	39.6	0	0 AA	B?
530765.3	6866107	7682.2	9	1.2	0	0	24.6	34.5	75.9	70.9	11.1	22.4 AB	B?
530853.9	6865840	7673.2	9	1.3	0	0	23	30.5	58.5	77.7	11.8	19.8 AC	B
530960.2	6865546	7663.3	9	0.8	0	0	15.7	30.4	70.6	122.4	0.1	23.7 AD	B
531131.4	6865075	7645.3	9	2.4	4.6	0	26.7	21.1	89.9	93.6	10.5	27.3 AE	B
532629.3	6861198	7515.8	9	2.4	0	0	34.5	30.2	231.5	182.3	18.3	61.8 AF	B?
532740.4	6860993	7509.7	9	1.1	9.7	0	11.9	14.4	0	3.7	2.3	0 AG	D
532856.4	6860739	7502.1	9	0.6	0	5	12.3	27.9	46.9	58.1	3.7	11.9 AH	B?
532890.3	6860607	7498.2	9	1	12.8	0	9	11.8	40.8	97.7	1.2	14.4 AI	B?
533123.5	6859835	7473.6	9	0.8	0	0	14.5	27.2	113.5	166.3	0	34.7 AJ	B?
533331.6	6859325	7456.9	9	1	12.3	0	9.8	12.3	61.8	31.7	7.5	14.1 AK	B
533505.3	6858969	7444.8	9	2.1	0	0	72.3	88.5	219.4	285.9	29.6	75 AL	B?
533612.5	6858658	7435.1	9	0.8	0	23	18.2	34.7	80.5	104	8.4	23.5 AM	B?
534429.6	6856511	7372.5	9	1.4	3.9	0	18.7	21.2	99.7	135.1	7.9	32.1 AN	B?
534452.6	6856453	7370.5	9	1.3	0	0	32.3	48.2	99.7	135.1	7.9	32.1 AO	B?
534693.6	6855836	7350.1	9	1.7	0	0	44.1	56.4	132.2	169.7	15.4	45.1 AP	B?
537795.1	6847862	7076.1	9	0.9	3.8	4	11.8	18.5	54.2	70.2	3	12.3 AQ	S?
539197.3	6844239	6959.2	9	0.3	0	5	5.9	23.6	27.5	68.8	1.3	11 AR	S?
541841.7	6837632	6730.3	9	0.7	0	1	12	22.8	43.3	50.8	3.4	11.1 AS	B?

LINE 1 600

521448.3	6891063	8729.2	9	0.5	0	0	5.6	11.1	9.6	0	1.4	2.1 A	B?
522314.5	6888877	8794.6	9	0.4	0	0	6.1	19.4	7.5	23.3	0.3	3.7 B	S?
523162.5	6886665	8853.9	9	2.5	0	0	33.2	27.5	59.8	50.3	4.2	17.8 C	D
523489.1	6885940	8874	9	999	7.8	0	22.2	0	84.6	125	3.6	25.1 D	B?
523655.6	6885519	8886.2	9	0.5	0	0	10.7	28.9	77.6	140.2	5.1	24.4 E	B?
523977.6	6884685	8910.4	9	0.7	0	0	11.2	20.7	25.4	42.6	1.8	9.3 F	S?
524022.5	6884538	8914.6	9	1.4	0	52	11	11.1	14.9	39.4	3.8	7.2 G	D
524114.9	6884277	8922.6	9	0.5	0	0	8.5	20.9	9.2	39.7	0	5.2 H	S?
524209.9	6884066	8929.7	9	0.4	0	0	4	11.3	22.9	10	0.2	9.6 I	D
524909.1	6882223	8980.2	9	0.4	0	0	7.7	23.4	38.4	67.4	5	13.9 J	S?
525687.3	6880355	9030	9	0.4	0	17	3.6	8.7	0	51.6	1.6	0 K	S?
527020.6	6876873	9131	9	999	17.5	0	14.8	0	0	0	0.7	0 L	S?
527317.3	6876055	9151.3	9	0.5	0	0	5.3	12.9	0	21.6	0.7	1.1 M	S?
LINE 1	601												
528029.2	6874195	344.5	10	0.6	0	0	10.5	23.2	30.5	41.4	4.9	11.1 A	B
528806.4	6872209	404.8	10	1.2	0	0	13.1	15.9	41.5	71.7	3.6	15 B	B?
529563.4	6870245	469.5	10	1	9.9	0	7.3	8.5	33.9	33.1	4.1	10.9 C	B?
530296.1	6868337	534.2	10	0.1	9	0	0	5	0	0	0.5	0 D	E
530466.9	6867904	552.5	10	0.7	0	2	19.9	51.4	34.8	93.6	0.7	14.1 E	S?
530686.6	6867336	573.6	10	1	0	0	11.9	17.2	0	21.6	3.1	0 F	S?
531120.1	6866220	607	10	0.5	0	0	7	15.5	29.9	0	5.2	12.8 G	B
531245	6865928	616.3	10	1.6	0	0	17	17.4	77.9	106	9.6	28.7 H	B?
531441.5	6865453	631.2	10	1	0	0	19	31.2	128.3	160	14.2	46.9 I	B?
531490.6	6865333	635.4	10	2.3	0.8	0	19.1	14.4	109.2	53.3	14.2	13.7 J	B?
531933.1	6864167	687.6	10	0.4	0	0	5.3	14.8	0	0	0	0 K	B?
532733.7	6862076	762.6	10	0.2	66.2	0	0.5	0.9	139.1	146.8	1	1.5 L	B?
532769.4	6861984	765.6	10	1	0	24	20.2	33.8	139.1	146.8	17.2	44.2 M	B?
532990.8	6861443	783.5	10	2.9	2.5	0	20.2	12.7	0.8	65.8	0.5	0.9 N	B?
533101.2	6861185	791.5	10	1.9	7.1	2	13.1	10.2	33.1	0	6.2	7.8 O	B?
533175.4	6860983	797.5	10	1.3	0	2	18.8	23.5	72	19.3	17.7	21.4 P	B?
533375	6860385	815.6	10	0.3	0	10	4.6	17.6	23	35.2	0.8	7.5 Q	B?
533669.7	6859640	837	10	3.1	0	0	46.3	35.2	168.8	33.1	1.3	4.5 R	B?
533713.8	6859539	840.1	10	0.7	0	0	13.3	28.4	14.7	25.5	0.4	4.4 S	B?
533790.8	6859353	846	10	1.3	0	0	28.9	42.2	249.9	226.1	29	81.7 T	B
534058.4	6858697	865.2	10	5.4	19	0	12.6	4.5	44.3	14.1	6.6	15.3 U	B?
534119.4	6858542	869.5	10	1.1	0	3	16.9	24.5	28.2	75.2	6.6	9 V	B?
534223.8	6858272	877	10	0.7	0	0	24.4	64.6	147.5	198.4	14	50.6 W	B

534295.8	6858088	882.2	10	0.9	0	0	19.3	34.5	0	137.6	0	0 X	D
534456.8	6857656	894.2	10	0.8	0	0	25.9	58.7	82.8	141.3	7.4	30 Y	B
535115.7	6855980	940.1	10	0.5	63.5	0	1	1.3	72.9	53.9	11.9	26.2 Z	B
535180.8	6855795	945	10	0.6	0	0	11.7	26.7	39	74.5	8.2	16.8 AA	B
535258.3	6855572	951.1	10	0.7	0	1	15.6	36.3	55.3	120.8	4.6	22.1 AB	B
535550.7	6854753	975.5	10	0.8	0	0	12.4	21.4	6.1	41.7	0.8	2.4 AC	B?
538392.4	6847504	1205	10	0.6	0	0	8.2	16.2	16.7	36.8	1.4	4.6 AD	D
539646.1	6844275	1296.5	10	0.4	0	0	4.8	14.3	24.8	91.8	2.2	12.3 AE	D
539881.3	6843718	1317.3	10	0.3	0	0	3.8	13	10.8	33.4	0.7	5.5 AF	B?
541880	6838434	1482.1	10	0.7	0	0	11.6	22.7	42.5	44.3	5.2	11.8 AG	S?
541947.6	6838178	1491.7	10	0.7	0	0	7.6	13.5	59.5	103.4	4.7	20.3 AH	S
LINE 1	610												
520467.8	6894843	3436.9	10	1.1	0	0	13.6	18.1	60.7	65.1	0	16.7 A	S?
520608.2	6894469	3426.6	10	4.7	15.5	0	15.1	6.2	15.6	8.7	2.4	4.9 B	D
520928.8	6893690	3404.2	10	0.7	0	0	20	46.2	78.6	160.9	4.8	29 C	S
521141.1	6893134	3389.3	10	2.7	0	4	25.5	18.2	47.4	27.2	11.1	14 D	D
522308.1	6890069	3301.3	10	0.8	0	0	10.4	18.1	35.5	71.7	1.7	9.8 E	S?
522395.7	6889864	3295.3	10	0.4	0	0	7.8	27	0	32.3	3.2	0 F	S?
522808.3	6888822	3265.7	10	0.3	0	0	5.1	19.1	2.2	29.3	0.2	3.3 G	S?
523086.4	6888038	3243.8	10	0.3	0	0	5.4	20.7	28.6	59.3	2.2	9.9 H	S
523146.5	6887889	3239.7	10	0.4	0	0	4.9	14.7	28.6	52.4	1.8	8.4 I	S
523521.7	6887000	3215.4	10	1.7	0	37	18.1	17.2	27.4	26.8	0	7.2 J	S?
523837.8	6886082	3191.8	10	0.6	0	0	13.8	34.3	121.3	98.1	12.3	36.1 K	B?
524005.2	6885591	3179.2	10	1.5	0	221	32.7	41.4	132.3	204.5	7	43.2 L	B?
524410.9	6884665	3155.3	10	0.1	0	0	1.6	10.1	28.4	80.2	6.7	11.4 M	M
524448.4	6884577	3153	10	0.2	0	0	3.8	21	28.4	80.2	6.7	11.4 N	D
524857.6	6883618	3125.3	10	532.9	113.7	650	1.5	0	0	0	0	0 O	M
525180.8	6882800	3100.9	10	0.5	0	0	9.4	25	18.3	0	5.5	8 P	S?
525272.9	6882564	3093.3	10	0.8	4.8	0	7.8	11.2	3.6	23.4	7.6	3.9 Q	B?
525300.4	6882486	3090.7	10	0.4	38.5	0	1.5	2.5	3.9	23.4	0.3	3.9 R	M
525584.6	6881704	3063.1	10	0.5	0	47	11.1	34.8	26.4	59.5	2.3	9.5 S	S?
526009.7	6880540	3029.4	10	0.3	0	0	5.6	26.2	12.6	58.5	1.5	7.8 T	S?
526234.6	6880006	3013.1	10	0.2	0	0	3.1	15.4	13.5	25.8	4	5.1 U	S?
526348.6	6879680	2982.1	10	0.3	0	0	2.3	7.8	5.2	44.6	0	3.9 V	S?
527315	6877265	2905.7	10	0.8	4.5	0	7.2	11	20.4	25.9	0	6.5 W	B?
527816.6	6875960	2873	10	1.2	16.8	0	6.9	6.9	25.5	12.8	3.2	7.1 X	D
528198.1	6874870	2845.7	10	0.7	0	0	8.1	15	34.8	59.1	4.4	14.3 Y	B?

530217.6	6869629	2710.6	10	0.1	0	1	1.5	27.3	5.2	72.2	5	1.5 Z	D
531088.8	6867446	2641.1	10	0.5	0	1	7.8	19.3	105.6	162.1	4.8	32.8 AA	B?
531225.9	6867067	2629.8	10	1	0	1	17.2	25.8	24.9	0	0	1.5 AB	B?
531416.5	6866547	2613.8	10	0.6	0	0	13.1	34.7	105.1	91.7	12.9	36.9 AC	B
531820.5	6865545	2586.3	10	0.8	0	4	14.1	27.2	67.7	55	15.1	24.4 AD	B?
533035.1	6862396	2492.4	10	14.8	10.6	0	23.5	4.8	0	114.9	0	1.5 AE	B?
533113.7	6862162	2486.4	10	16.5	4.9	0	31.7	6.4	63.4	1.3	8.2	14.3 AF	D
533839.6	6860388	2436	10	1.5	0	0	29.6	37.7	54	112.4	1.6	15.8 AG	B?
533938.6	6860156	2429.4	10	4	21.9	1	11.2	4.8	0	0	1	0 AH	B?
534720.9	6858074	2368.8	10	1.6	0	0	21	22	42.5	79.4	0	13 AI	B?
535145.9	6856980	2339.7	10	1.4	0	0	22.8	29	53.2	66.8	6.3	19.1 AJ	B?
535180.4	6856894	2337.3	10	0.7	0.3	0	8.3	13.5	53.2	66.8	6.3	19.1 AK	B?
535402	6856374	2322.4	10	1.6	7.3	0	12.2	11.2	0.9	0	3	0 AL	B
535509.8	6856109	2315.3	10	1.3	0	0	17.9	21.4	43.2	8.7	10	18.8 AM	D
536292.4	6853990	2257.1	10	0.3	0	0	7	29.5	53	92.9	6.2	16 AN	B?
539953.6	6844656	1967.5	10	0.2	0	0	2.2	11.6	13.8	39.6	3.5	4.8 AO	B?
541977.8	6839404	1795.7	10	0.9	0	2	14.7	25.1	31.5	93.4	2.7	16.7 AP	S?
542166	6838899	1778.4	10	0.6	0	3	10.4	25.5	50.7	126.6	2.5	18.7 AQ	S?
542660.6	6837626	1737.9	10	0.2	0	0	3.3	15	7.5	7.8	0.4	1.9 AR	B?
LINE 1	620												
525749.1	6882350	3949	10	0.2	0	100	3.1	15.8	16.8	46	3	6.6 A	S?
526119.9	6881406	3975.8	10	0.7	3.8	0	8.8	16.1	66.3	84	4.2	19.2 B	S?
526158.8	6881289	3979.4	10	0.8	0	0	15.1	28.5	66.3	84	4.2	7.9 C	S?
526620.6	6880105	4016.6	10	0.3	0	0	4.8	19.2	16	62.7	3.4	12.2 D	B?
527584.3	6877629	4088.5	10	0.3	0	0	4.3	16.3	18	27.8	1.3	6.2 E	B?
528094.3	6876248	4131.2	10	1	13.6	0	9.1	11.2	28.9	13.2	3.6	7.8 F	S
529548.7	6872469	4246.1	10	0.7	0	1	11	22.5	0	52.1	5.3	11.3 G	B?
529647.9	6872218	4253.5	10	4.9	24.7	0	14.4	5.6	40.4	48.6	3.8	0 H	B?
530871.4	6869057	4349	10	0.5	0	0	9.6	26.3	27.9	35.3	3.3	7.9 I	D
530979.4	6868683	4361.3	10	0.3	0	0	4.6	17.2	5.4	21.6	1.2	3.2 J	B?
531073.6	6868503	4368.5	10	0.4	0	0	9.1	29.5	21.7	68.3	0.3	11.5 K	S?
531520.9	6867596	4407.8	10	0.6	0	1	9.2	19.4	62.4	69.7	8.4	19.2 L	S?
531694.9	6866879	4430.5	10	1	21.1	0	6.9	7.8	28.7	23.8	0.2	5.8 M	B?
531857.6	6866481	4443.6	10	1.3	0.5	1	19.8	24.8	66.7	117.1	13.2	20.3 N	B?
531905.1	6866384	4446.8	10	0.3	0	0	7.1	29.2	66.7	117.1	7.9	20.3 O	D
532089.7	6865984	4460.6	10	1	0	0	18.1	28.8	73.2	89.7	10.9	23.5 P	B?
532208.3	6865724	4471	10	1.5	0.4	0	21.8	25.5	63	34.6	13.1	23 Q	B

532249.4	6865620	4475.6	10	0.7	0	0	11.4	24.1	32	56.9	3.8	9.8 R	B?
532419	6865179	4496.1	10	0.5	0	0	11.3	37.2	101.8	229	8.1	41.5 S	B?
533361.5	6862683	4580.9	10	1.7	1	0	24.1	25.1	117.2	66.5	25.3	39.5 T	B
533558.7	6862235	4595	10	6.2	10	0	30.1	11.9	95.6	131.6	4.6	29.8 U	B?
533631.8	6862069	4600.4	10	1.3	0	0	21	27.5	65.2	112.4	3.3	23.1 V	B?
533714	6861876	4606.4	10	1.1	0.3	0	17.1	23.9	21.3	84.5	3.1	5.3 W	B
533844.6	6861510	4617.1	10	0.7	0	37	13.4	29.9	27.9	35.3	1.8	7.9 X	D
534038.3	6860932	4633.6	10	1.7	0	0	36.6	43.8	77.1	85.8	6.1	20.1 Y	D
534089.3	6860788	4638	10	0.9	0	0	18.6	33.6	77.1	14.2	1.9	20.1 Z	B?
535835.8	6856358	4762	10	0.8	3.7	1	10.5	17.4	36.8	63.4	4.9	13 AA	B?
540038.6	6845473	5093	10	0.1	0	3	1.9	16.5	19	54.1	2.8	8.2 AB	B?
540376.3	6844621	5115.3	10	0.5	0	14	14.6	47.3	58.4	111.2	4	18.2 AC	S?
542443.5	6839147	5262.8	10	0.1	0	1	1.1	8.4	17.2	35.3	2.1	7.9 AD	S?
543246.9	6837164	5319.9	10	0.6	0	0	9.3	22.7	37.3	71.1	2.5	11.8 AE	S
543437.3	6836676	5333.2	10	0.1	0	1	2.6	25.2	38	115.3	3.1	15.3 AF	S?
LINE 1	625												
520541.1	6895734	1691.5	49	0.1	2.1	0	0.5	18.1	30.7	82	3.9	16.8 A	S
520910.1	6894792	1720.7	49	1.7	12.4	0	21.5	21.3	40.8	89.8	3.5	13.8 B	D
521098.2	6894287	1736.4	49	2.6	17.7	1	21.7	15.5	47.1	52.9	6.1	16.9 C	D
521431.8	6893459	1763.7	49	2.8	18.6	2	21.9	14.5	31.7	44.4	4	0 D	D
521821.5	6892441	1798	49	0.9	11.7	2	12	18.9	35.5	56.1	3.5	9.6 E	S?
521918.3	6892230	1805.2	49	0.6	0	0	14.1	39	0.2	105.1	1.2	18.2 F	S?
522015.3	6892011	1812.4	49	1.2	14.7	0	14.5	17.5	28.5	58.1	1.3	7.4 G	S?
522515.9	6890640	1855.8	49	0.4	0.1	0	5.8	20.2	18.6	58.4	0.3	8.3 H	B?
522734.5	6890109	1873.3	49	1	16.4	0	11.1	15.1	20	61.1	0.6	8.4 I	S?
523617	6887827	1948.3	49	0.5	19.3	0	4.3	9.1	0.2	0	0.4	0 J	D
523838	6887241	1966.8	49	1.4	10.4	17	20.4	23.5	58.1	83.2	3.4	15.3 K	B?
524125.3	6886521	1989.3	49	999	40.6	42	16.4	0	107.2	0	1.5	0 L	B?
524170.4	6886395	1993.2	49	1.1	22	0	9.5	11.5	107.2	87.4	10.8	22.8 M	B
524527.4	6885482	2023.4	49	1.2	1.7	0	27.9	41.3	30.7	126.6	1.2	0.4 N	B?
524606.5	6885282	2030.2	49	215	371.9	0	0	0	0.1	0	0	0 O	M
524669.6	6885119	2035.5	49	1.3	11	0	18.2	22.2	72.6	106.7	5.5	19.9 P	S?
524729.8	6884959	2040.8	49	0.8	13.2	0	9.7	16.4	0.2	48.8	2.4	0 Q	S?
524920.4	6884465	2058.1	49	0.7	9.3	106	10.5	19.8	32.2	63.6	1.7	13 R	S?
524959	6884368	2061.5	49	0.4	5.1	0	5.6	16.3	32.2	63.6	0.9	13 S	S?
525222.8	6883702	2086.2	49	368.4	203.2	940	0.5	0	0.1	0	1.5	0 T	M
LINE 1	630												

526821.7	6880561	6793.2	10	0	0	20	0.5	16.9	13.7	64.2	0.4	9 A	S?
527377.6	6879189	6747.5	10	0.4	0	1	7.5	24.8	22.7	78.5	4.7	9.8 B	D
527447.8	6879001	6742	10	0	0	0	0	10.4	0	14.6	1.6	4.7 C	B?
527893.3	6877918	6713.3	10	0.5	0.4	0	9.1	24	25.4	42.1	2	8.8 D	D
528467.5	6876432	6675.4	10	0.8	10.5	0	11.1	18.3	29.3	23.3	0.7	6.5 E	D
528519.3	6876310	6672.3	10	0.2	6.4	0	2.3	9.2	17.6	21.4	2.2	4.8 F	B?
532183.4	6866788	6403.1	10	0.1	0	0	0.8	30.3	54.1	151.2	0	19.2 G	S?
532307.2	6866471	6393.9	10	1	0	0	24.8	44.3	85.5	109.9	0	29.5 H	B?
532470.8	6866031	6381.9	10	999	46.7	0	12.3	0	104.6	90.8	13.3	32.9 I	B
532498.3	6865959	6380	10	1.5	4.5	0	27.1	32.4	104.6	90.8	13.3	32.9 J	B
532567.4	6865776	6374.9	10	0.1	26	3	0	25.2	0	87.2	0.7	0 K	B?
533475.9	6863427	6302	10	1.7	3.7	15	31.2	35.1	154.5	115.3	22	51.9 L	B?
533512.9	6863316	6298.8	10	999	35.7	0	19.1	0	154.5	0	22	51.9 M	B?
533562.4	6863173	6294.9	10	999	37.2	0	17.9	0	0	0	0	0 N	B?
533642.6	6862986	6289.8	10	1.4	2.4	18	28.4	37.1	129.9	131	16.1	41.1 O	B
534028.3	6862080	6266.3	10	0.8	7.1	1	13.5	22.7	54.6	58.4	6.3	16.6 P	B?
535225.7	6858864	6181.7	10	0.3	0	0	8.9	38	74.7	124.2	4.4	25.3 Q	B?
535514.9	6858170	6163.3	10	1	14.3	0	11.2	15.7	0	47.5	0.7	9.9 R	D
535876	6857311	6139.7	10	0.6	0	1	14.9	39.9	2.4	9.8	0	2.2 S	B
535910.6	6857214	6137.1	10	1.6	12.1	0	19.2	19.9	97.6	185.8	8.6	33.6 T	B
535938.1	6857130	6134.9	10	26.6	23.8	0	26.4	3.7	97.6	185.8	8.6	33.6 U	B
536045.1	6856821	6126.9	10	0.7	16	0	7.8	12.9	11.1	8.5	3.6	2.9 V	B?
536139.6	6856564	6120.3	10	1.4	13.8	2	16	17.6	69.4	94.4	14	28.7 W	B
536193.1	6856423	6116.7	10	0.8	3.5	0	15.2	28.1	28.8	35.5	14	11 X	B?
536436.8	6855807	6099.9	10	1.1	15.9	0	11.8	14.9	41.1	25.1	0	0.3 Y	B?
536590.3	6855419	6088.5	10	1	13.7	0	12.3	16.5	57.6	65.1	7.9	19.8 Z	B
537119.9	6854064	6048.6	10	1.2	19.6	0	10.8	12.4	29	46.2	1.8	10.7 AA	D
537217.6	6853838	6042.3	10	0.8	23.6	0	6.6	9.3	0	4.5	0	0 AB	B?
537810.1	6852278	5986.4	10	1.4	0	5	48	73.7	83.4	135.8	3.7	24.3 AC	D
542283.7	6840830	5625.5	10	0.7	0	0	14.6	31.8	83.6	68.1	7.6	23.1 AD	D
542418.7	6840498	5616.6	10	0.7	7.9	9	11.4	20.6	0	58.9	0	0 AE	B?
542688.6	6839778	5595.3	10	0.9	7	0	14	23.2	55.3	78	1.2	15 AF	S?
542742.4	6839636	5590.3	10	0.4	0	0	6.8	21.7	1.3	9.1	0	1.3 AG	S
543615.8	6837330	5510.1	10	0.2	0	0	3.8	21.1	8.6	42.1	1	4.7 AH	B?
543722.8	6837073	5501	10	0.6	12.7	0	6.9	13.8	0	0	0	0 AI	B?
LINE 1	635												
520490.8	6896990	1623.7	49	0.2	0	0	3.9	19.3	0	0	2.8	0 A	B

520522.8	6896898	1620.9	49	3.3	9.8	0	25.3	15.3	54.5	65.9	0	0 B	D
521245.3	6895067	1563.7	49	1.6	1.5	1	23.9	26	93.5	142.6	5.2	29 C	S?
521448.8	6894517	1546.4	49	0.4	0	0	4.7	13.7	43.3	26.1	5.3	12.9 D	B?
522201	6892550	1487.1	49	1.2	11.4	0	12.1	13.7	46.6	64.9	2.2	14.7 E	S
522740.2	6891190	1444.4	49	0.4	0	0	7.1	21.2	28.1	40.3	1	8.7 F	S
523477.1	6889301	1385.4	49	0.7	15.7	0	6.4	9.7	0.7	0.5	1.1	0.3 G	S
524390.5	6886901	1309.2	49	1.8	0.6	0	27.6	28.2	153.9	185.8	12.4	42 H	B?
525051.4	6885235	1257.3	49	0.6	0	81	9.8	23.2	30.3	0	3.2	0 I	B?
526261.1	6882118	1161.4	49	0.9	17.4	0	7.3	9.5	4.4	1.4	1.3	0.4 J	S?
526841.8	6880567	1102.9	49	0.4	7.3	0	4.5	10.6	0	35.8	0.2	4.1 K	S?
527344.3	6879166	1049.1	49	0.6	0	0	10.7	22.7	42.9	63.4	3.1	11 L	S?
LINE 1	640												
521302.3	6896036	205.3	10	0.3	0	0	7.3	29.9	4.2	48.1	1.4	6 A	D
521706.8	6894861	239	10	0.1	0	0	1.6	10.3	13.2	22	1.7	5.1 B	B?
521792.7	6894662	244.5	10	1.2	0	1	18.1	23.1	45.6	58.5	4.9	13.4 C	B?
522040.9	6894051	262	10	3.9	0	0	35.9	20.9	138.4	93.3	9.9	36.5 D	B?
522548.3	6892799	296.1	10	0.7	0	0	18.1	43.5	1.7	3.4	0.5	0.4 E	S?
522642.3	6892490	303.9	10	0.4	0	0	6.4	17.5	0	13.7	0.4	0 F	D
522733.4	6892242	310	10	0.5	0	0	7.6	20.8	12.2	29.2	1.8	8 G	B?
523624.6	6889946	367.1	10	0.6	0	1	6.3	12.9	15.7	36.2	0.9	5.7 H	S?
523736.2	6889653	374.6	10	0.2	0	0	3.7	21.2	0	33.1	0.5	5.6 I	S?
524454.5	6887806	422.4	10	1.3	0	0	11.3	12.2	0	0	0	0 J	S?
524614	6887393	433.2	10	0.9	0	1	19.8	38.1	0.3	0	1.3	0 K	B
524668.9	6887254	436.9	10	1.8	0	0	33.3	36.6	142.7	154.3	11.4	42.3 L	B
524810.9	6886870	447.5	10	1.7	0	0	37.2	44.5	140.8	169.4	8.7	42.7 M	B
524998.6	6886396	460.9	10	0.4	82.7	0	0.5	0.6	0	3.4	0.5	0 N	B?
525133	6886058	470.2	10	0.5	0	187	4.8	10.9	54.7	125.2	2.6	22.7 O	B?
525935.3	6884018	532.7	10	0.1	84.9	257	0	0.3	5.6	4.2	0.5	3 P	M
526003.7	6883819	539.4	10	0.3	0	0	3.1	8.5	17.8	15.5	8.5	5.8 Q	B?
526058.3	6883669	544.2	10	0.5	0	0	5	9.7	13.8	42.6	4.9	8.2 R	M
526590.4	6882338	583.7	10	0.1	0	315	0.5	41.9	48	141.9	3.4	22.9 S	S?
526795.2	6881797	600.7	10	0.5	0	237	10	27.9	30.7	116.8	0.4	15.4 T	S?
526933.3	6881483	612	10	0.1	0	18	0.5	38.8	41.1	106.8	2.6	16.4 U	S
527214.7	6880729	642.9	10	0.3	0	27	5.2	24.1	78.1	150.6	5.5	26.2 V	S?
527278.4	6880542	648.8	10	0.3	0	0	3.9	15.3	0	3.4	7	0.6 W	S?
529199.1	6875612	793.8	10	1.1	0	0	13.8	17.9	49.2	65.7	5.8	18.1 X	B
529339.6	6875229	804.7	10	0.6	0	0	7.8	15.3	56.3	127	3.7	23.3 Y	S?

532393	6867509	1049.7	10	0.5	0	0	6.7	16.3	61.9	95.6	1.7	20.3 Z	B?
532763.1	6866471	1082	10	215	336.4	0	0	0	0	0	0.1	0 AA	B?
532910	6866046	1096	10	1.7	0	0	32.3	36.3	101.2	59	19.5	33.1 AB	B?
532986.6	6865834	1103.7	10	0.8	0	0	7.9	12	48.8	42.3	0.5	12.9 AC	B?
533313.4	6865053	1128.3	10	2.9	0	0	19.5	12.4	0	47.7	7.5	0 AD	D
533455.8	6864716	1138.5	10	4.2	0	0	16.7	7.6	61.9	0.2	6.2	9.7 AE	B?
533512.3	6864579	1143	10	0.1	0	2	0	23.1	57.7	108.2	0.5	17.1 AF	B?
533547.5	6864475	1146.5	10	999	4.2	0	17.1	0	57.7	0	4.2	17.1 AG	B?
533637.1	6864189	1156.5	10	1.2	0	0	21.4	29.7	52.3	38.4	0	16 AH	B?
533741.3	6863914	1166.9	10	1.2	0	0	26.9	42.1	157.5	157.6	12.7	48.8 AI	B
533841.4	6863685	1176.1	10	365	169.8	67	0.5	0	81.4	87.4	0.5	26.8 AJ	B?
533877.8	6863597	1179.8	10	0.1	0	0	0.5	24.4	0	0	0	0 AK	B?
533999	6863329	1190.4	10	1.4	0	0	22.2	27.5	111.3	132.9	17.6	41.1 AL	B
534390	6862318	1221.1	10	1.3	0	0	25.3	34.5	96.9	196	3.9	36.4 AM	B
534629.8	6861659	1239.9	10	999	13.6	0	11.8	0	84.3	124.2	7.8	29.6 AN	B
535682	6858915	1316.1	10	1	0	0	7.1	8.7	0	15.3	2.7	0 AO	B?
536322.5	6857207	1363	10	999	0	0	29.6	0	120.9	206.7	10.9	42.8 AP	B
536466.3	6856897	1371.9	10	0.3	0	1	2.5	8.7	24.6	0	5	12.2 AQ	B
536705.8	6856297	1389	10	2.3	0	0	16.8	12.3	66.6	56.2	8.2	18.9 AR	B?
536816.1	6856007	1397.7	10	2.5	0	0	19.9	14.5	62.2	77.2	6.6	18.6 AS	B?
537040.2	6855416	1414.1	10	0.1	0	0	0.5	8.8	23.9	54.5	7.1	14.5 AT	B?
538162.7	6852490	1502.9	10	0.5	0	8	7.1	16.4	43.2	76.3	1.9	12.9 AU	S?
539252.4	6849763	1596.5	10	1.1	0	1	13.3	16.9	0	0	3.4	0 AV	S?
539659.4	6848610	1632.9	10	0.7	0	1	9	16.8	91.3	157.4	4.2	27.5 AW	S?
541139.4	6844826	1730.9	10	0.4	0	6	6.7	22.4	20.6	60.4	2	9 AX	S?
542280.3	6841861	1804.6	10	2.4	0	15	35.5	30.4	84.2	87.7	5.5	22.6 AY	B?
542405.9	6841567	1811.9	10	5.4	0	8	60.3	31.4	113.8	96.9	9.4	32 AZ	D
542686.8	6840804	1830.7	10	999	0	0	29.4	0	46.6	16.7	11.6	16.9 BA	D
543110.3	6839675	1864.3	10	0.5	0	0	8.9	22.8	0	31.3	2.8	6.3 BB	B?
544147.3	6837056	1937.2	10	0.4	0	0	6.4	22	23.4	60.8	0.7	8.8 BC	S
LINE 1	650												
532101.2	6869273	3006.8	10	0.4	0	0	7	23.9	78.6	120.7	8.1	27.4 A	D
532743.1	6867647	2936.8	10	0.9	0	2	19.8	38.1	41.2	87.5	1.8	11.5 B	B?
533045.5	6866813	2914.3	10	4.1	21.6	0	14.1	6.3	38.5	45.7	0	12.4 C	B?
533224.9	6866329	2902.7	10	2.3	0	0	47.3	46.3	120	88.5	18.4	41.2 D	B
533338.8	6866100	2896.7	10	1.2	0	0	32.3	52.6	101.6	147.7	5.2	26.5 E	B
533619.8	6865392	2877.3	10	2.1	0	2	44.7	47.6	242.8	247.2	15.1	64.8 F	B?

533650.5	6865286	2874.7	10	4.9	5	0	32.4	15.4	242.8	26.2	15.1	64.8 G	B?
533806.1	6864819	2863.1	10	0.8	0	0	16.5	31.6	37.6	78.1	4.1	14.9 H	B?
534010.3	6864323	2848.1	10	0.6	0	0	10.7	27.6	60.6	130.5	0	21.4 I	B?
534140.1	6863979	2836.2	10	0.3	0	7	4.5	14.6	5.2	50.3	4	0.1 J	D
534333.2	6863505	2822.9	10	6.4	33.3	5	10.1	3	0	25.6	0	0 K	B
534683.7	6862492	2798.7	10	1.8	4.5	0	18.8	17.8	61.2	86.5	5.3	19.7 L	B
535137.7	6861386	2770.9	10	1.3	24.8	0	6.7	6.3	21.9	26.2	4	8.7 M	B?
536271.2	6858546	2696.4	10	18.7	21.4	0	18.4	3	84.4	86.6	4.2	23.3 N	B
538204.1	6853498	2547.5	10	0.8	7	0	8.7	13.1	24.6	44	3.3	8.4 O	S
542556.2	6842346	2239.5	10	7	0	3	55.9	23.5	259.2	90.6	35.9	84.3 P	B?
542599.9	6842236	2236.5	10	485.1	19.2	0	24.5	0.5	259.2	10.6	26.5	84.3 Q	B?
542756.4	6841850	2226.2	10	2.9	8.1	0	21.9	14.1	12.8	24	5.8	1 R	B?
542881.9	6841513	2217.4	10	834.1	60.2	0	5.8	0	85.1	2.6	11.4	28.2 S	B
LINE 1	651												
520662.7	6898724	1458	12	0.7	0	2	12.2	22.6	0	22.7	0.7	9.6 A	B?
521089.6	6897607	1427.4	12	999	41	0	12	0	88.7	136.8	5.9	30.2 B	B
521243.3	6897219	1417	12	1.3	3.5	0	17.6	21.6	60.3	86.4	6.4	19.2 C	B
521752.8	6895893	1379.4	12	0.3	0	0	4.1	17	0	39.9	0	0 D	B?
521935.5	6895431	1365.9	12	0.6	0	2	10.7	23.1	69.9	145.6	4.1	24.5 E	S?
522322.3	6894450	1339.9	12	999	36.3	0	14.2	0	105.5	151.8	5.8	33.2 F	B?
522350.8	6894380	1338	12	1.2	0	1	22.1	31.5	105.5	151.8	6.7	33.2 G	D
522671.7	6893527	1315.3	12	0.8	0	0	16	31.1	38.9	50.8	0.7	12.1 H	S?
522757.4	6893294	1308.8	12	987.9	46.9	0	9.7	0	55.8	0	1.5	19.5 I	S?
522800.7	6893181	1305.4	12	0.7	3.1	0	9.2	17.5	55.8	136.5	1.8	19.5 J	S?
522976.3	6892742	1291	12	0.3	0	0	6.1	31	2.6	63.5	1.5	7.6 K	S
523109.3	6892416	1280.3	12	0.5	0	0	12	38	50.7	108.7	2.6	16.4 L	S?
523282.5	6891925	1265.5	12	0.3	0	0	6.5	24.1	19.1	52.9	0.1	0 M	B?
524803.9	6888111	1159.6	12	2.1	17.6	0	13.7	10.2	19.7	41.4	2.6	6 N	S?
524958.9	6887720	1148.6	12	0.1	19.4	0	0	32	0	1.8	0	0 O	B?
525033.4	6887529	1143.2	12	971.4	48.4	0	9.2	0	80.3	73.3	9.2	21.3 P	B?
525281.4	6886914	1126	12	0.2	0	256	3.2	21.2	26.2	85.5	2.7	12.8 Q	B?
525453.7	6886399	1111.3	12	0.8	0	268	17.3	35.3	82	121.9	5.8	29 R	B?
525524.6	6886189	1105.4	12	0.4	0	19	12.8	48.9	80.9	95	7	23 S	B?
525761.9	6885672	1091	12	0.4	0	0	9.3	31.3	20.7	74.8	3	11 T	S?
526777.6	6883005	1008.2	12	0.7	12.9	36	6.3	10.5	6.9	97.9	7.1	1 U	S?
526852.8	6882815	1002.2	12	0.4	0	0	7.3	21.8	6.7	37.3	10.1	4.3 V	S?
527308.1	6881737	968.4	12	0.5	7.2	0	4.8	10.9	0	42.6	3.1	4.7 W	B?

528097.3	6879581	899.5	12	0.7	2.2	0	10.5	19.2	34.1	84.5	2.7	14 X	S?
529354.6	6876350	811.4	12	0.5	0	0	7.5	17.8	0	33.5	0.1	0 Y	D
529898.4	6874938	773	12	1.1	5.8	0	13.6	18	28.7	43.3	4.2	10.4 Z	S?
LINE 1	660												
520936.2	6899115	1598.3	12	0.8	0	0	17	32.1	54.6	92.4	6.8	22.7 A	B?
521002.3	6898942	1603.5	12	4.5	0	0	21.5	9.9	77.9	110.8	6.6	27.3 B	B
521082.1	6898757	1609.5	12	0.5	0	0	11.4	32.7	49.8	77.7	7.4	17.6 C	B?
521237	6898422	1620	12	0.7	0	0	7.6	12.5	5.8	0	1.8	0 D	B?
521303.3	6898258	1624.6	12	0.5	0	0	9.3	29	31.1	66.5	1.9	12.4 E	B?
522423.6	6895305	1704.5	12	0.9	0	0	13.6	22.6	27.6	49.1	1.3	1.5 F	S?
522596.3	6894870	1715.3	12	5	0	0	24	10.5	30.1	19.2	7.6	11.9 G	D
523153.4	6893479	1751.3	12	0.7	0	0	14	28.4	37.2	17.7	0	0.4 H	S?
523219.4	6893302	1755.9	12	0.5	0	2	11.5	35.4	37.2	82.2	2	13.7 I	S?
523645.9	6892202	1781.8	12	0.7	0	0	7.5	13	18.1	36.9	0.7	5.7 J	B?
525292.8	6887913	1893	12	942.9	0	323	8.4	0.1	96	97.5	3.7	26.7 K	B?
525376.6	6887700	1898.9	12	0.6	0	177	15.5	38.1	0	0	0.5	0 L	B?
525446.8	6887520	1903.9	12	1.1	0	0	26.8	44.6	91.9	129.9	4.8	27.2 M	B?
525493.6	6887401	1907.2	12	1.5	0	136	17.5	19.1	91.9	129.9	4.8	27.2 N	B?
525804.4	6886593	1929.8	12	0.4	0	98	11.5	39.7	75.5	151.5	8	28 O	B?
526161.5	6885691	1954.2	12	0.4	0	0	7.8	30.5	32.1	55.2	0.1	11 P	S?
526283.9	6885370	1962.5	12	0.5	0	332	10.6	31.2	54	121.7	2.7	25 Q	S?
526335.1	6885232	1966.2	12	0.3	0	0	5.4	19.2	51.8	121.7	0.6	25 R	S
526446.4	6884945	1974	12	371.3	84.6	0	0.5	0	0	3.2	0	0 S	M
526777.5	6884110	2000.4	12	0.1	0	427	0.1	0.4	1.7	36.6	0	5.9 T	M
526866.8	6883931	2006.2	12	0	0	218	0.4	0.1	6.4	0	0.7	0 U	M
526981.9	6883619	2015.5	12	0.1	0	0	0	9.4	7.2	61.5	0.1	6.5 V	M
527163.8	6883169	2028.6	12	0.6	0	591	9.4	21.3	27.7	102.2	0	15.8 W	S?
527629.1	6881963	2064.2	12	0.4	0	29	7.6	29.7	23.3	59.1	1.1	9.1 X	D
529604.1	6876768	2219.2	12	0.5	0	0	5.4	11.6	2.1	24.1	0	3.1 Y	B?
531553.3	6871799	2351.2	12	0.8	0	0	10.4	18	45.8	85.4	4.3	16.6 Z	B?
531613.9	6871650	2355.4	12	0.5	0	0	7.9	20	0	0	0.2	0 AA	D
531928.2	6870829	2377.8	12	0.4	0	0	9.9	33	54.8	122.5	2.9	22.4 AB	B
532017.8	6870592	2384.1	12	1.4	0	0	12	11.8	64.7	92.5	4.5	24.1 AC	B?
532334.3	6869785	2406.9	12	0.8	0	1	6.8	10	36.7	78.2	3.7	7.5 AD	D
533356.8	6867140	2513.1	12	0.9	0	0	9.5	14	20.1	51.7	0.1	3.7 AE	B
533797.6	6866017	2548.6	12	497.5	0	0	11.3	0.2	127.9	142.2	0.4	34.7 AF	B?
537513.2	6856433	2806	12	1.5	0	32	12.3	11.9	1.9	19	0.1	0.7 AG	B?

538197.9	6854730	2854.2	12	1.9	0	0	11.4	8.7	1.9	30.1	0	7.4 AH	B?
542666.1	6843114	3166.8	12	2.7	0	1	36.2	28.6	49.4	40.3	5.4	12.4 AI	D
542911.8	6842455	3182.5	12	1.2	0	0	16	20.7	70.1	79	4.8	20.7 AJ	B?
543000.8	6842231	3188.1	12	0.7	0	0	10.8	19.9	38.9	100.4	2.6	15.1 AK	B?
LINE 1	670												
520549.3	6901298	5412.4	12	2	0	0	60.4	73.4	280.4	306.2	25.8	95.9 A	B
520778.4	6900717	5395.6	12	2.3	0	2	55.9	57.1	188.8	157.7	20.8	61.4 B	B
520807.6	6900642	5393.4	12	2.1	0	0	42.1	42.9	188.8	157.7	20.8	61.4 C	B
520928.4	6900316	5384.2	12	1	0	0	20.5	34.3	92.8	89.3	9.4	30.4 D	B
520959.7	6900233	5381.9	12	1.1	0	0	25.5	39.6	92.8	100.7	9.4	30.4 E	B
521085.5	6899899	5372.8	12	0.7	0	6	13.8	31.1	24.5	54.1	0.1	7 F	B?
521752.8	6898185	5324.3	12	0.8	2.9	2	8.8	13.4	22.8	18.7	0.9	5.5 G	B?
522353.2	6896562	5276.3	12	0.5	0	1	11.9	38.8	18.8	42.6	1.9	4.3 H	S?
522664.9	6895839	5255.8	12	357.1	22.2	0	17.9	0.4	49.4	129.1	0	18.9 I	D
522775.2	6895534	5247.6	12	1.6	1.9	0	16.7	16.5	87.2	115.8	0	26 J	S?
523334.1	6894033	5207	12	1.1	0	1	27.2	46.1	69.7	98.4	0.1	22.8 K	S?
523518	6893573	5192.9	12	0.6	0	1	11.2	25.2	32.1	39	1.7	8.5 L	B?
524111.3	6892085	5144.9	12	0.4	0	0	5.8	15.1	21.5	36.8	2	9 M	B?
524817	6890313	5095.7	12	0.1	0	0	0.4	22.9	16.8	55.3	0.8	7 N	S?
524859.1	6890203	5092.7	12	0.3	0	1	6.6	25.4	16.8	55.3	0.6	7 O	S?
525472.7	6888657	5049.9	12	1.6	0	20	20.9	21.6	0	21.4	0	0 P	B?
525985.7	6887346	5013.6	12	0.7	0	96	15.8	32.8	78.7	126.8	6	25.2 Q	B?
526100.7	6887093	5006.5	12	0.7	0	86	15.9	36.9	0	38.8	0	12.4 R	B?
526197.4	6886875	5000.4	12	1	0	112	36.1	77.7	97.4	187.3	6.9	36.4 S	B?
526942.4	6884867	4945.8	12	0.1	12.7	0	0	14.5	0	104.8	0.1	0 T	M
527720.9	6882804	4865.4	12	23.8	62.2	0	4.1	0.4	20.8	51.1	1.7	6.8 U	S
527959.9	6882198	4846.8	12	0.5	0	39	8.5	25.2	21.4	53.2	2.4	7.4 V	S?
528029.1	6882033	4842.1	12	0.3	0	17	5.5	23.1	20.6	26.5	0	4.4 W	S?
528771.3	6880076	4776	12	1.7	6.8	0	14.2	12.6	45.3	20.7	0.1	9.1 X	S?
531688.9	6872569	4566.7	12	0.7	0	0	11	19.9	16.3	32.5	1.8	6.4 Y	D
532237.9	6871122	4525.6	12	0.5	0	0	9.5	27.1	21	78.6	1.4	11.5 Z	B?
534191.9	6866050	4301.6	12	1.6	0	2	23.6	26.1	214.8	182.2	21.4	69.7 AA	B?
536035.1	6861162	4159.6	12	0.1	0	0	1.7	11.8	0.1	1.4	0.3	0 AB	D
536879.4	6859099	4100.4	12	0.8	0	1	12.4	21.7	48.3	80.5	4.4	18 AC	B
537753.8	6856875	4038	12	0.8	0	0	14.9	29.4	92.6	119.3	7.7	29.7 AD	B
537795.1	6856773	4034.6	12	5.5	9.1	0	22.8	9.2	92.6	119.3	7.7	29.7 AE	B
540854.4	6848897	3775.5	12	0.5	0	6	13.1	42.5	56.8	132	5	22.3 AF	B?

542658	6844277	3647.1	12	0.2	0	0	4.9	25.6	37.8	132	2.7	19.5 AG	S
542802.9	6843896	3636.4	12	0.4	0	6	7.1	19.8	30.1	125.4	1.2	17.5 AH	S?
543007.5	6843348	3620.8	12	4	0	1	51.3	32.1	185	180.3	11.6	49.5 AI	B?
543042.4	6843251	3618.1	12	0.1	0	10	0.4	55.2	185	180.3	0.6	49.5 AJ	B?
544797.2	6838777	3485.6	12	0.4	0	2	7.7	25.9	15.4	48.8	2.2	7.2 AK	D
LINE 1	680												
520680.4	6902069	5529.7	12	1.4	0	0	6.3	5.4	22	0	0	6.7 A	B
520801.7	6901779	5537.6	12	2.7	0	0	8.9	4.8	24	29.9	3.4	10 B	B
520850	6901668	5540.6	12	0.8	0	0	11	19.2	24	57.1	3.4	10 C	B?
520941.7	6901456	5546.3	12	0.3	0	0	6.7	27.2	121.3	55.8	0	0 D	B
520999.1	6901307	5550.2	12	3.3	0	0	21.2	12.3	121.3	0	19.9	40.5 E	B
521199.9	6900757	5564.5	12	8.1	0	0	17	4.9	71.8	37.8	1.6	19.4 F	B
521339.5	6900430	5573.6	12	0.3	0	0	4.1	17.1	35.4	72.5	5.3	9.4 G	B
521398.7	6900265	5578	12	0.1	0	9	3	31.9	55.7	103.6	0.3	21.9 H	B?
521881.5	6899019	5610.9	12	1.5	0	0	15	15.5	0	13.1	0	0 I	B?
522305.3	6897908	5638.7	12	0.7	0	0	12.7	25.4	70.7	72.3	4.8	22.2 J	B?
522970.6	6896132	5680.6	12	849.8	0	0	6.2	0	0	0	2.9	0 K	D
523193.8	6895499	5695.3	12	19.9	0	0	33.3	6	49.3	13.4	12.7	18.7 L	D
523389	6894993	5707.4	12	1	0	0	16.2	25.6	37.9	65.9	5.6	13.3 M	D
523460.3	6894816	5711.7	12	2	0	3	17.3	14.2	42.3	29.7	5.6	15 N	D
523648.7	6894348	5723.1	12	3	0	0	13.1	7.3	87.1	14.4	1.7	27.9 O	D
523716.8	6894205	5726.7	12	0.8	0	0	20.7	41.5	87.1	118.4	6.7	27.9 P	B?
524380.2	6892515	5767.1	12	0.7	0	0	10.3	19.3	32.3	58.1	3.5	11 Q	S?
525788.2	6888896	5856.5	12	1.4	0	0	29.2	40	64.9	106.4	4.6	18.8 R	D
525964.1	6888446	5868.4	12	0.8	0	11	16.9	36	59.8	107.3	1.7	18.7 S	B?
526812.9	6886184	5929.4	12	0.5	0	0	8.7	23.6	13	32.7	0	6.9 T	S
527029.7	6885624	5943.7	12	1	0	0	25.2	47	45.9	88.8	1.2	15.2 U	S?
527222.3	6885115	5956.9	12	0.4	0	0	7.3	23.1	51.4	73.4	3.4	16.7 V	S?
527427.4	6884563	5970.8	12	1	0	0	15.1	23.4	76.1	67.9	6.2	20.1 W	S?
527586.6	6884169	5981	12	0.4	0	260	5.1	15.5	96	161.6	0	36.4 X	S?
527617.6	6884081	5983.7	12	57	0	0	14.9	1.1	0	0	2	0 Y	E
530586.8	6876532	6239.1	12	0.4	0	0	6.5	21.5	26.7	56.5	1.5	10.1 Z	B?
531816.7	6873359	6319.4	12	0.4	0	0	8.1	25.2	19.4	80.1	1.1	10.5 AA	B
531937.1	6873031	6327.6	12	0.8	0	0	8.7	13.1	0	0.1	0	0.1 AB	D
534586.6	6866225	6533.8	12	62.3	0	0	19.7	1.5	76	0	13.9	25.7 AC	D
534983.2	6865169	6559	12	1.4	0	0	33.2	47.5	78.4	127.3	7.2	26 AD	B
535122.5	6864826	6567.4	12	1.2	0	0	26.9	39.8	87.7	114.8	13.5	32.2 AE	B

535166.3	6864710	6570.2	12	47.4	0	0	19.8	1.8	87.7	114.8	13.5	32.2 AF	B
537171.5	6859496	6696.7	12	0.6	0	0	16.4	42.3	101.5	154.8	11.6	36.2 AG	B
538849.8	6855231	6806.7	12	1	0	0	11.5	16.3	0	40.8	0	9.1 AH	B
539419.4	6853744	6867	12	0.2	0	1	2.7	13.4	0	26	1	5.3 AI	D
543351.8	6843609	7125.1	12	4.1	0	0	24.6	12.5	92	0	5.2	23.1 AJ	B
543393.9	6843495	7127.9	12	4.2	0	0	29.4	15.3	92	94	5.2	23.1 AK	B?
544857.9	6839733	7233.6	12	0.1	0	0	0.2	23.9	0	0	0	0 AL	B?
LINE 1	690												
520524.4	6903561	9903.3	12	1	0	0	22.8	40	227.2	221.4	46.8	84.4 A	B
520754.5	6902991	9885.4	12	1.3	14.7	0	8.5	8.3	20.1	18	4.5	6.1 B	B
520912.2	6902530	9871.8	12	2.4	0	0	33.7	29.3	230.3	132.9	54.8	90.2 C	B
521107.9	6902054	9858	12	0.9	0	0	11	17.3	65.4	22.8	4.8	18.4 D	B
521207.5	6901805	9850.5	12	1.2	0	0	24.4	36.3	83.9	107.1	7.9	21.1 E	B
521316.8	6901556	9842.8	12	1.1	0	0	35.8	62.6	106.3	156.2	0	35.3 F	B?
521443.4	6901199	9832	12	0.9	10.2	0	7.1	9.5	23.5	29.1	0	3.1 G	B?
521492.2	6901066	9828	12	0.5	0	0	11.3	34.2	30	74.3	1.1	11.2 H	B?
521629.3	6900724	9817.6	12	2.8	0.5	0	25.7	18	70.2	55.4	0.2	21.2 I	B?
522031.7	6899568	9784.3	12	959.8	42.7	1	8.9	0	86.8	83.6	6.7	24.7 J	B?
522082.3	6899453	9780.8	12	1.3	0	0	25.4	34.3	86.8	83.6	6.2	24.7 K	B?
522204.9	6899190	9772.9	12	1.7	0	0	28.6	31.2	40.1	72.5	0	12.5 L	B?
523201.7	6896647	9702.2	12	0.9	9	3	7.5	10.1	69.1	93	0.2	19.7 M	D
523249.7	6896525	9698.9	12	2.4	8.7	1	16.2	11.3	69.1	20.5	9	19.7 N	B?
523442.8	6896063	9686.1	12	0.4	0	0	8.9	30.3	53.8	76.9	4.1	20 O	B
523766.7	6895248	9663.6	12	0.7	0	0	14.5	33.6	68.3	110.7	5.4	22.9 P	B
523817	6895101	9659.6	12	0.9	0	3	18.6	31.4	68.3	0	5.4	22.9 Q	B?
524049.4	6894474	9643.2	12	1.6	7.3	1	13.3	12.2	0	0	0	0.3 R	S?
524111.5	6894319	9638.9	12	0.4	0	3	9.8	37.4	36.5	88.2	0	13.8 S	S?
524234.1	6893956	9627.4	12	0.2	0	1	3.8	26.3	0	95.2	2.3	0 T	S?
526124.4	6889102	9491	12	1.5	8.7	0	11.7	11.3	20.3	23.9	1.4	3.8 U	S?
526240.6	6888805	9483.2	12	0.5	19.3	0	2.9	5.2	6	13.2	2.1	4.2 V	M
526510.5	6888086	9464	12	0.5	0	0	14.4	43.8	67.6	118.5	2.7	24.1 W	S?
526559.5	6887965	9460.5	12	0.6	0	63	10.8	23.6	0	0	2.9	0 X	S?
526726.8	6887546	9447.3	12	0.7	0	0	16.3	36.6	64.9	124.6	4	22.7 Y	S?
526985.7	6886907	9427.3	12	0.2	0	0	4.9	28.1	34.3	118.1	3	18 Z	S?
527641.6	6885251	9379	12	0.1	12.6	249	0	9.1	12.1	54.5	0.2	7.9 AA	M
527763.8	6884914	9367.1	12	0.6	6.4	0	5.9	10.2	27.9	53.9	2.6	7.8 AB	D
527869.4	6884712	9359	12	0.1	12.6	54	0	17.8	20.2	64.1	3	10 AC	S?

528729.6	6882366	9243.6	12	0.2	0	5	2.4	13.8	31.7	68.7	2.3	9 AD	S?
532356.7	6873096	8975.6	12	0.5	0	1	12.6	44.4	59	131	6.4	22.3 AE	B
534113.1	6868528	8773.4	12	0.8	0	0	9.5	16	2.1	1.1	2.1	0.9 AF	B?
534175.1	6868374	8767.8	12	0.7	0	0	14.3	29.9	63.8	113.6	4.6	22.8 AG	B
534255.9	6868141	8760.2	12	0.4	0	0	6.1	17.4	14.4	51.1	2.4	7.6 AH	B
534536.1	6867377	8737.8	12	0.4	0	0	4.6	11.1	51.1	91.3	5	20.7 AI	B?
534649.7	6867047	8728.6	12	1.6	5.9	0	14.2	13.1	0	30.8	1	1 AJ	B?
534913.1	6866480	8711.2	12	2.5	5	0	19.5	13.8	48.3	28.5	12.3	13.4 AK	B?
534990.6	6866271	8704.4	12	1.4	0.5	0	15.7	17.4	30.9	61.4	2.7	9.4 AL	B
535439.4	6865077	8669.7	12	2	19.7	0	9.5	6.6	4.6	4.3	0.2	0.1 AM	D
535579.6	6864717	8659.4	12	8.1	18.5	0	16.3	4.6	25	29.1	1.7	11.2 AN	B?
535633.9	6864571	8655.4	12	2.2	8.4	0	15.7	11.5	2.8	75.1	0.9	0.8 AO	B?
537173.1	6860617	8541	12	1.9	9.1	0	13.7	11.1	29.9	13.7	4.9	8.5 AP	B
537325.6	6860212	8530.2	12	1.4	0.7	0	15.9	17.3	35.9	39.4	5.8	12.3 AQ	B?
537467.3	6859891	8521.5	12	1.4	0	0	30.4	41.9	129.2	129.9	16.9	41.1 AR	B
537520.9	6859760	8518	12	1.6	0	0	38.9	51.3	129.2	28.9	16.9	41.1 AS	B
537670.1	6859355	8506.8	12	1	0	0	23.2	41.7	87.8	138.8	6.5	27.4 AT	B
538420.3	6857436	8450.7	12	0.7	0	2	9.8	17.6	43	60.5	3.1	14.7 AU	B
538636.1	6856783	8427.3	12	0.1	0	0	2.4	29	45.4	59.9	2.5	13.4 AV	B
539505.1	6854613	8360.9	12	0.6	3	0	6.5	11.8	6.3	30.1	0.9	4.3 AW	B?
LINE 1	700												
521098	6903214	10097 3 12		1.6	0	0	17.2	17.2	47.9	47.9	6.1	14 A	B
521319.8	6902613	10112 4 12		5.4	0	0	29	12.6	125.8	56.4	21.3	43.1 B	B
521452.3	6902255	10121 3 12		1.4	0	0	25.7	32.7	120.6	125.8	13.6	41.2 C	B
521484.8	6902168	10123 5 12		0.8	0	0	20.2	41.3	120.6	125.8	14.6	41.2 D	B
521659.2	6901704	10135 0 12		2	0	0	43.8	48.4	194.2	136	18	57.6 E	B
521688.4	6901634	10136 7 12		2.6	0	0	39.5	32.8	194.2	136	18	57.6 F	B
522059	6900800	10156 4 12		11.1	23.1	0	10.7	2.2	41.1	26.9	4.4	11.7 G	B
522413.4	6899886	10177 5 12		0.6	0	0	8.7	20.6	38.7	48	3.7	10.3 H	B
522735.8	6898999	10198 3 12		0.5	0	0	7.2	19.2	31.4	54.1	2.3	12 I	B
523375.8	6897250	10242 8 12		0.2	0	0	2.7	13.3	5.3	10.3	2.1	1 J	S?
524067.1	6895701	10281 6 12		3.5	8	0	14.8	7.4	1.5	9.9	5.7	1.8 K	B
524768.1	6893711	10332 0 12		0.5	0	1	9.1	26.4	55.9	117.2	3.6	20.1 L	S?
525840.7	6890996	10399 7 12		0.3	0	0	4.1	14	11.1	31.7	1.6	5.3 M	S?
526464.9	6889310	10442 6 12		1	0	0	12.1	17	40.2	56	4.3	12.9 N	B?
527976.3	6885469	10541 1 12		0.6	0	100	6	12	38.8	55	3.5	8.9 O	S?
528224.7	6884864	10555 9 12		1.3	0	0	14.2	16.2	45	56.1	3.5	13.7 P	S?

529115.3	6882505	10638	1 12	0.4	0	18	8.5	31.7	22.5	90.6	2.4	8.4 Q	E
529788.6	6880832	10683	1 12	1.1	0	0	14.2	18.5	16	0	6.2	6.5 R	E
529930.4	6880429	10694	0 12	0.5	0	0	12.7	37.6	23.2	63.8	1	9.6 S	B?
529975.7	6880306	10697	3 12	19.4	16.4	0	14.2	2.1	23.2	0	0.2	9.6 T	B?
530030.3	6880159	10701	2 12	0.3	0	0	6.2	22.8	15.8	59.5	1.9	8.4 U	B?
LINE 1	701												
534934.1	6867543	577.1	13	0.6	15.5	0	7.4	14.9	77.2	68.1	7.3	24.4 A	B?
535039.8	6867250	585.6	13	1	0.2	0	30.8	56.3	61.3	112.7	2.7	19.9 B	B?
535172.6	6866882	595.3	13	1.2	10.4	1	19.6	27.5	125.7	97.5	4.9	46.6 C	B
535247.4	6866690	600.1	13	6.2	24.1	0	26.9	10.4	79.9	22.5	31.7	29.4 D	B
535904.6	6864989	641	13	2.3	26	0	16	11.7	64.5	64.2	10.7	25.8 E	B
535937.1	6864911	642.9	13	2.5	23.7	2	18.9	13.1	64.5	69.3	10.7	25.8 F	B?
537457.3	6861051	742.9	13	0.7	2	0	15.3	35.7	40.6	103.9	1.9	19.8 G	B
537904.9	6859918	771.5	13	2	13.1	0	27.4	25.6	103.5	85.2	16	34.2 H	B
538050.8	6859510	780.8	13	0.2	17.3	0	1.8	6.7	0	1.5	0	0 I	B?
540601.6	6852889	968.9	13	999	55.6	3	10.6	0	71.7	64	3.7	19.5 J	S
542016.9	6849348	1056.3	13	0.6	25.4	0	5.4	9.4	68.8	130.6	7.9	26.1 K	S
544746.8	6842192	1232.6	13	0.1	30.5	6	0	23.2	35.3	55.8	1.9	11.7 L	S?
545219.4	6841069	1264.8	13	0.8	13.5	0	12	20	30	92.5	2	16 M	S?
545286.4	6840912	1269.5	13	0.1	30.5	1	0	31.4	53	108	0	19.8 N	S?
LINE 1	705												
533275.5	6871798	604.7	49	0.1	13.2	0	0	7.8	0.2	24.9	0.9	3.2 A	S?
LINE 1	710												
520561.8	6905513	3703.3	13	0.3	62.7	5	0.7	1.2	0	256.2	0	0 A	B?
520586.1	6905449	3700.8	13	0.5	0	0	17.8	57.7	16.2	256.2	23	67.4 B	B?
520646.1	6905331	3696.8	13	0.1	10.9	0	0	72.9	131.5	130.5	23	41.7 C	B?
520784.5	6905063	3687.1	13	0.9	0	0	10.2	15.3	113.2	120.7	10.2	33.8 D	B?
520812.4	6905005	3684.8	13	2.7	0	0	42.6	35	113.2	120.7	10.2	33.8 E	B?
521071.8	6904387	3662.3	13	1.4	0	0	30	39.5	93.2	98.4	44.7	33.5 F	B
521189.6	6904080	3653.1	13	1.7	0	0	46.7	59.8	208.1	145.9	47.2	75 G	B
521248.3	6903904	3648	13	3.7	0	0	29	16.7	0	17.9	0	0 H	B
521314.5	6903728	3642.6	13	2.9	0	1	54.5	44.9	84.5	153.5	0	25.3 I	B
521396.6	6903529	3636.6	13	5.3	0	0	49	24.6	84.7	74.8	5.4	17 J	B
521488.1	6903305	3629.8	13	2.3	0	0	44.1	42.2	107	118.9	10.6	33.5 K	B
521669.3	6902845	3616.5	13	999	0.1	0	53.7	0	200.7	120.3	39.1	73.4 L	B?
521700.9	6902763	3614.2	13	1.5	0	2	32.3	41.7	200.7	120.3	39.1	73.4 M	B?
521847.8	6902370	3603.1	13	2.1	0	0	38	38.4	103.4	88	17.2	33.1 N	B

521953.8	6902104	3595	13	1.3	0	0	35.5	54.2	73.4	114	0	26.6	O	B
522063.1	6901808	3585.8	13	1.7	0	0	38.5	46.4	181.4	100	0	56.9	P	B?
522109	6901673	3581.7	13	2.2	0	0	45.3	45.8	181.4	140	20.5	56.9	Q	B
522393	6900929	3557.1	13	1.4	3	0	13.5	13.8	124.3	106.3	12.2	31.5	R	B
522783.9	6899997	3529	13	0.8	0	4	10	15.8	15.8	26.2	1	6	S	B?
522862.4	6899778	3522.4	13	0.1	0	0	0.7	13.9	19.3	15.3	3.3	6.2	T	B
522925.7	6899590	3516.9	13	0.1	0	1	0.5	27.7	33	54.9	3.3	11.5	U	B
523288.3	6898626	3488.6	13	999	30.5	0	12.8	0	0	0	3.8	0	V	B?
524329.7	6895978	3409.1	13	1.9	9	2	13	10.2	43.8	25.1	8.4	15.1	W	D
524630.2	6895131	3382.8	13	0.6	0	0	12.1	29	130.6	2.9	0	38.7	X	B?
524680.7	6895001	3378.7	13	0.9	0	3	22	44	130.6	145	0	38.7	Y	B?
525507.1	6892881	3310.1	13	1.6	10.3	0	11	9.6	51.2	43	3.4	15.1	Z	B
526661	6889978	3224.8	13	0.6	0	1	10.8	27.5	0	21.2	1.6	0	AA	D
526707.8	6889849	3221.2	13	1	0	0	12.3	17.1	35.6	46.8	0	9.4	AB	B?
526799.3	6889595	3214.1	13	1	0	0	14.7	20.8	38.3	89.1	6.4	19.2	AC	B?
527011.9	6889035	3197.6	13	0.4	0	268	6.8	19.2	24.2	64	0.3	10	AD	D
527676.6	6887401	3147.9	13	0.6	0	0	9.4	20.7	35.9	74.8	2.2	13	AE	S?
528120.8	6886249	3113.7	13	0.5	0	0	10.8	34.8	112.9	233.8	3.7	40.9	AF	S?
528742.9	6884621	3053.3	13	0.1	3.4	13	0.7	3.4	3.5	17.6	1	1.9	AG	M
529269.9	6883283	2991.8	13	0	0	55	2.2	0	0	0	0	0	AH	M
530134.6	6880974	2915	13	0.3	0	0	7.7	32.2	50.7	117.6	1.9	19.9	AI	B
530252.7	6880626	2904.2	13	0.8	0	2	22.9	52.8	49.9	103.5	3.7	19.5	AJ	B?
530496.3	6879943	2883.5	13	0.6	0	0	9.5	21.8	38	63.6	0.2	13.4	AK	B
530834	6879212	2860.3	13	0.9	0	1	31.2	64	70.8	146.4	5.9	28.4	AL	B
530999.7	6878775	2847	13	0.9	0.7	0	9.7	14	34.6	33.8	3.9	11.2	AM	B?
531574.8	6877295	2801	13	1	0	0	19	30.8	61.9	112.8	5	23.1	AN	S?
532744.4	6874268	2703.6	13	0.6	0	0	8.3	17	43.9	109.5	5.5	22.4	AO	B?
532838.3	6874062	2695.9	13	0.8	0.6	0	8.3	13.4	56.6	110.9	7.6	22.3	AP	B?
533289.2	6872878	2650.8	13	0.3	0	0	5.4	21.2	43.2	120.4	2.2	19.8	AQ	B
534591.1	6869559	2488.3	13	0.7	0	1	11.1	20.8	0	81.7	0	0	AR	E
534728	6869216	2474.4	13	0.3	0	0	5.4	18.8	18.8	45	0	7.4	AS	B?
535192.3	6867948	2435.9	13	0.7	0	0	11.7	22.2	26.3	21.2	6	7.9	AT	B
535354.4	6867567	2424.8	13	0.8	0	1	14.2	27.8	124.1	192	8.6	43.2	AU	B
535519.1	6867103	2411	13	1.2	0	1	35.7	57.2	124.1	188.8	0	42.4	AV	B?
535752.1	6866437	2392	13	1.1	0	1	35.5	65.9	206.4	214.2	34	76.7	AW	B
536059.8	6865734	2371	13	1.3	0	0	17.3	21	49.1	89.7	0	15.8	AX	B?
538241.9	6860037	2205.6	13	28.5	30	0	10.6	1.2	56.6	115.6	10.6	22	AY	B

542904.3	6848067	1829.6	13	0.1	10.9	0	0	1.2	0	0.3	0	0 AZ	B?
LINE 1	720												
520572	6906866	7892.8	44	1.8	1	4	20.1	18.7	140.9	97.3	64.4	62.4 A	B?
520728.2	6906507	7903.5	44	2.9	0	12	64.8	57	266.6	214.6	24.3	103 2 B	B?
520782.5	6906296	7909.7	44	1.2	0	0	18.8	24.8	96.9	91.1	38.4	54.3 C	B?
520800.9	6906214	7912.1	44	6.7	64.1	0	3.7	0.8	96.9	91.1	38.4	54.3 D	B?
520873.3	6905911	7920.6	44	2.6	0	0	37.9	31.3	106	99.6	0	28.9 E	B?
520988.1	6905630	7928.8	44	1	6.3	12	9.7	12.5	23.7	46.1	0	8.4 F	B
521130.2	6905323	7938.3	44	0.2	0	0	5.1	34.2	111	101.6	2.3	36.5 G	D
521187.8	6905198	7941.9	44	0.9	1.9	0	10.8	15.6	120	0.4	24.3	0.4 H	B?
521267.3	6905011	7946.9	44	1.7	0	0	21.7	21.8	79.8	48.5	3.1	23.6 I	B
521468.3	6904526	7959.5	44	3.3	2.1	0	27.4	17.1	100.1	108.5	43.5	38.2 J	B?
521573.3	6904259	7966.4	44	0.8	0	8	16.3	31.3	180.3	177.2	56.2	85.6 K	B?
521602.7	6904177	7968.5	44	0.1	0	0	2.5	33.5	180.3	177.2	56.2	85.6 L	B?
521667	6903986	7973.4	44	799	62.1	0	5.1	0	94.5	22.5	0	21.9 M	B
521792.2	6903633	7982.8	44	2.7	0	0	33.3	26	98.4	106.2	5.8	36.1 N	B
521842.1	6903502	7986.3	44	1.2	0	0	16.4	21.3	0	0	6.1	0.4 O	D
521997.3	6903095	7997	44	2.6	0	0	27.2	20.4	30.4	121.1	5.3	14.8 P	B
522042	6902973	8000.2	44	1.9	0	0	25.1	23.7	125.3	14.6	34.5	51.3 Q	B?
522143.6	6902708	8007.3	44	0.8	0	0	12.1	21.8	105.7	177.5	5.1	41 R	B
522320.1	6902310	8017.9	44	1.2	123.4	0	0.7	0.4	102.1	32.4	16.6	39.5 S	B
522344.9	6902256	8019.3	44	2	0	0	25.5	24	102.1	32.4	16.6	39.5 T	B
522432.3	6902061	8024.3	44	1.1	4	0	11.3	14.4	1	31.8	0	6.2 U	B?
522577.4	6901731	8032.7	44	38.3	13	0	25	2.7	122.7	78.5	8.8	39.7 V	B
522928.8	6900900	8054.6	44	0.8	0.6	0	10.1	16	23	35.9	8.7	11.4 W	B
522973.7	6900762	8058.2	44	0.6	3	0	6.6	12.3	10.4	18.8	2.1	5.3 X	B
524619.9	6896407	8173.5	44	2.1	17.9	0	10.9	7.5	30.8	38.3	7.4	15.2 Y	B?
524677.3	6896267	8177.8	44	2.2	2.9	0	20.8	16.7	0	0	7.4	15.2 Z	B?
527141.3	6889850	8360.4	44	1.4	16.2	0	9.1	8.2	28.8	31.7	0	9.6 AA	B?
527336.2	6889293	8376.5	44	0.7	0	314	9.2	17.6	26.6	70.8	0	11.3 AB	S?
527610.4	6888688	8395.4	44	0.8	18	47	5.4	6.9	26.7	14.6	1.7	1.3 AC	M
529024.3	6885022	8503.9	44	0.1	13.7	144	0	2.6	7.9	32.6	1.5	5.1 AD	M
529492.5	6884026	8538.3	44	61.9	18	52	20.3	1.5	18.7	54.1	1.2	11.8 AE	M
529592.6	6883612	8550.2	44	1.7	1.3	73	19	18.3	17	1.6	4.3	9.7 AF	M
531236.3	6879314	8677.3	44	1.8	5.2	0	16.3	14.6	48.2	25.2	5.7	21 AG	B?
531567.1	6878524	8700.1	44	0.6	0	0	8.4	17.3	31.2	57.2	3.7	15.4 AH	D
533381.9	6873869	8827.8	44	0.6	15.3	0	4.4	7.1	0	46.9	1.6	10.5 AI	B?

535252.7	6868955	8974.9	44	1.7	4.2	0	16.5	15.4	45.6	69.1	7.3	23.1	AJ	B
535526.1	6868302	8993.6	44	0.6	0	0	15.5	39.8	50.4	117.6	6.8	25	AK	B
535658.4	6867917	9004.9	44	0.3	0	1	6.5	26.9	126.4	112.4	12.2	29	AL	B
535701.4	6867785	9008.6	44	14.1	23.9	0	14.5	2.7	60.9	112.4	13.4	29	AM	B
535746.8	6867636	9012.7	44	40.1	24.3	0	15.1	1.4	45.4	46	0	21.9	AN	B
535820	6867368	9020.1	44	0.9	0	2	19.2	33.3	80.8	101.1	6.6	36.6	AO	B?
535942.6	6867049	9029.9	44	2.1	0	0	47.2	51	271.4	319.2	33.6	110 7	AP	B
535982.4	6866965	9032.5	44	2.2	0	0	30.7	27.8	256.9	319.2	28.4	110 7	AQ	B
536204.9	6866495	9046.6	44	3.1	10	0	18.3	10.8	58.5	31.4	13.4	25.1	AR	B?
536323.6	6866192	9055.5	44	0.7	3.7	0	8	13.1	20.3	20.1	0	9.6	AS	B
539763.8	6857385	9306.5	44	0.6	0	0	10.5	22.7	65.7	103	6.6	28.3	AT	S?
544490.1	6845151	9715.3	44	0.8	5.3	0	8.4	12.5	59.5	61.4	6.5	21.8	AU	S?
LINE 1	730													
544689.2	6845693	6139.1	13	0.9	12.3	0	11.7	17.7	21.6	51.3	2.8	7.6	A	D
547024.1	6839629	5951.8	13	0.4	0.7	0	7.3	21.6	34.4	96.4	2.6	16.1	B	S?
547540.4	6838441	5892.3	13	0.5	0	0	12.7	42.9	37.7	114.4	2.4	16.5	C	B?
LINE 1	731													
520956.8	6906800	8143.1	13	0.1	0	0	0.9	124.6	636.2	816.8	105.6	234	7:00 AM	B?
521151	6906347	8129.6	13	8.5	23.2	21	22.6	6.7	140.1	23.1	49.9	61.6	B	B
521192.8	6906250	8126.7	13	5	13.2	82	32.3	15.2	140.1	24.3	49.9	61.6	C	B?
521287.9	6906002	8119.5	13	1.3	2.4	25	23.7	32.1	24	53.5	5.7	3.3	D	B?
521391.8	6905763	8112.2	13	999	39.8	17	15.1	0	139.2	179.7	15.8	40.4	E	B?
521448.2	6905647	8108.5	13	1.4	0	6	38.5	55.3	139.2	179.7	0	0	F	B?
521754.8	6904871	8084.7	13	999	13	0	55.6	0	5.6	3.5	48.4	88.1	G	B
521786.7	6904798	8082.5	13	0.4	0	0	9.4	33.6	249.8	227.1	48.4	88.1	H	B
521811.3	6904740	8080.8	13	1.6	0	1	42.3	57.1	249.8	227.1	48.4	88.1	I	B
521972.7	6904362	8069.4	13	1.4	8	0	19.8	22.8	211.9	230.6	68.9	70.9	J	B
522014.3	6904263	8066.3	13	0.1	24.4	1	0	39.1	0	0	68.9	0	K	B
522186.3	6903763	8051.1	13	2.7	13.6	0	23.6	16.7	41	24.8	7	12	L	B
522336.4	6903321	8037.8	13	1.3	0.8	0	25.8	36	120.9	135.2	27.9	43.1	M	B
522575	6902760	8019.9	13	1	1.9	0	18.4	30.3	131.5	124.2	11.4	44.5	N	B
522756.3	6902377	8006.7	13	0.8	13.8	0	8.7	13.7	0	45.3	0	0	O	B
522837.3	6902186	8000.5	13	1	5.6	0	16.6	24.4	0	18.1	0	0	P	B?
522957.9	6901794	7988.5	13	0.1	0	0	1.2	18.2	133.6	7.5	21.3	48.7	Q	B
522997.7	6901665	7984.6	13	0.1	24.4	0	0	25.9	133.6	62.5	21.3	48.7	R	B
523189.7	6901144	7968.7	13	0.1	24.4	0	0	17.9	0	0	0	0	S	B
523296.9	6900886	7960.6	13	0.8	1.7	0	14.9	28.1	65.9	103.1	1	19.9	T	B

524725.4	6897157	7842	13	999	38.4	0	16	0	56	7.5	7.8	19.1 U	D
524777.6	6897045	7838.5	13	0.9	4.5	0	14.9	24.7	56	96.4	5.8	19.1 V	B
524954.7	6896618	7825.5	13	1.5	17.6	0	13.6	13.2	32.6	27.2	4.3	14.4 W	B?
527482.2	6890125	7628.1	13	1.4	1.7	0	26.7	34.7	51.4	85.7	7.3	17.9 X	B?
527813.7	6889287	7600.3	13	0.1	0	0	1.2	11	10.4	51.3	4.2	7.7 Y	M
528046.3	6888648	7560.6	13	0.1	24.4	0	0	5.6	5.8	1.6	1.8	1.9 Z	M
528915.8	6886420	7484.2	13	0.7	0	0	17.8	43.8	78.3	167.2	0	26 AA	S?
529082.3	6885956	7469.9	13	0.8	0	0	19	38.9	0	95.6	0	0 AB	S
529282.8	6885517	7455.3	13	0.1	0	0	0.9	12.2	20.3	56.9	2.8	7.5 AC	S
529569.9	6884720	7422.3	13	0.1	0	107	0.9	14.3	12	39.9	4	5.7 AD	M
529684.2	6884447	7411.6	13	0.1	0	39	2.9	24.8	24.7	105.8	0.8	15.2 AE	M
529797.9	6884068	7395.8	13	453.8	155.7	0	0.9	0	8.9	7.5	6.1	1.5 AF	M
535693.3	6868972	6928.5	13	1.4	13.9	0	14.9	16	34.1	31.3	0.8	10.4 AG	B?
535800.3	6868612	6917.7	13	1.7	11.5	0	19	18.8	77.8	168.1	10.7	28.3 AH	B
535843.4	6868506	6914.6	13	8.5	16.4	0	31.7	10.1	77.8	168.1	10.7	28.3 AI	B
536021.8	6868102	6902.9	13	5.1	35.6	0	11.9	4.3	72.9	93.6	6.4	24.5 AJ	B?
536337.3	6867325	6879.6	13	222.3	38.3	0	14.6	0.4	58.5	74	9.6	21.1 AK	B
538976.4	6860408	6671.3	13	466.8	150.4	0	1	0	5.6	96.7	1	1.9 AL	B
539038.2	6860259	6666.6	13	1.1	0	0	33	57.3	114.5	147.8	16.2	40.4 AM	B
LINE 1	740												
521241.5	6907224	8278	13	1.3	0	6	16.2	18.7	66.4	74.9	4.6	16.5 A	B?
521380	6906912	8287.3	13	6	0.1	4	26.1	10.2	43	15.7	14.5	16.3 B	B?
521422.3	6906760	8291.5	13	23.8	23.9	0	11	1.4	32.1	4	0	11.7 C	B
521497.5	6906555	8297.4	13	0.6	0	0	7.6	14.6	38.6	48.8	6.6	12.4 D	B?
521633.9	6906208	8307.9	13	0.2	0	0	5.6	40.4	0	31.5	3.5	0 E	B
521693.3	6906049	8313	13	1.4	0	35	43.9	67.1	134.5	155.4	13.8	41.2 F	B
521720.8	6905972	8315.5	13	1.2	0	72	19.8	26.6	134.5	155.4	1.2	41.2 G	B
521793.1	6905761	8322	13	1.3	0	7	30.4	44.2	0	0	17.2	0 H	B?
521925.7	6905390	8332.3	13	0.6	0	0	11.5	30.3	321.9	203.9	75.9	114 5 I	B?
522050.3	6905073	8340.8	13	2.4	10.3	0	11.6	7.4	59.2	53.3	13.7	21 J	B
522367	6904416	8359	13	123.5	31.3	0	9.3	0.4	22.2	29.4	21.4	4.8 K	B
522422.9	6904246	8363.4	13	3.2	0	1	32.6	21.9	77.3	79.2	0	32.4 L	B?
522532.9	6903971	8370.7	13	2.3	0	0	30.8	26.5	127.7	112.6	0	42 M	B?
522602.5	6903794	8375.3	13	1.8	0	0	24.1	24.3	0	23.6	13.1	0 N	B
522757.6	6903382	8385.7	13	0.7	0	1	8.9	15.5	135.4	81.6	31.7	48.7 O	B
522911.1	6903019	8395.1	13	1.7	0	0	31.3	34.9	138.9	179.4	6	41 P	B
523184.5	6902309	8413.1	13	1.2	0	0	22.4	31.7	108.7	107	11.6	34.2 Q	B

523431.1	6901630	8429.8	13	1.2	0	0	15	18	112.5	92.7	9.8	36.2 R	B
523846.8	6900521	8456.7	13	0.6	0	1	7	14.6	27	32.3	12	13 S	B?
527805.5	6890385	8700.1	13	1.8	0	0	20.2	19.1	41.4	0	6.3	11.7 T	D
528340	6888978	8733.5	13	0.6	16.1	12	3.2	4.9	10.3	25.4	0.7	3.3 U	M
528479.3	6888528	8744.6	13	0.3	1.9	0	1.7	5	14.9	43.7	1.6	5.4 V	M
529289.1	6886567	8803.2	13	0.4	0	0	6.2	22	48.1	61.7	4.9	16 W	S?
529406.3	6886210	8813.8	13	0.4	0	0	4.4	12.5	0	38.5	6.3	0 X	D
529454.6	6886045	8820.2	13	0	0	465	0.6	3.5	0	0	0.8	1.4 Y	M
529791	6885303	8847.9	13	2.3	32.7	54	5.4	2.9	15.4	27.8	0.5	5.1 Z	M
529846.4	6885188	8851.8	13	0.5	21.2	9	2.5	4	6.7	17.1	0.1	3.9 AA	M
529965.7	6884919	8860.9	13	0.1	0	311	1.4	17.5	22.6	65	0.1	9.1 AB	S?
530156.8	6884259	8879.7	13	0.2	0	93	2	9.9	3.3	14.4	0	2.6 AC	M
530690.8	6883029	8914.7	13	9.9	33.1	0	7.6	1.6	61.6	146.2	1.7	23.3 AD	B
534115.5	6874052	9156.2	13	0.3	0	1	3.3	13.2	0	83.4	3.6	8.3 AE	B?
LINE 1	741												
536688.1	6867534	365.4	14	1.2	24.5	0	8.9	9.7	22.3	53.7	8.4	7.6 A	D
536991.2	6866667	390.2	14	1.9	13.8	0	19.9	18.2	54.1	50.2	3.9	16.8 B	B?
537042.4	6866521	394.3	14	1.7	34.6	1	8.1	6.3	62.4	90.7	8.3	23.4 C	B?
537207.9	6866070	406.9	14	1.2	24.1	0	9.1	9.9	81	113.4	6.1	22.5 D	B?
539407.6	6860530	556.8	14	0.9	10.5	0	11.8	18.7	54.3	46.1	0.4	18.2 E	B
LINE 1	743												
543524.3	6849830	894.6	14	0.4	0	0	8.9	37.1	69.1	139.7	6.7	26.9 A	B
545024.2	6845916	1076.7	14	0.5	0	0	9.8	28.3	38.2	53.9	3.1	11.3 B	S?
547366.6	6839933	1270.8	14	0.4	0	0	13.6	62.7	49.5	135.6	3.7	20.8 C	B?
LINE 1	745												
535701.7	6869989	273.9	49	0.6	2	0	8.7	17.4	42.1	77.2	1.4	12.4 A	S?
536223.2	6868605	317.7	49	0.9	0	0	15.5	26.3	75.6	109.2	7.9	27.8 B	B
536348.9	6868300	326.8	49	0.8	1.2	0	12.9	21.6	62.3	90.3	3.8	20.2 C	B
536484.1	6867978	336.4	49	1.2	0	0	34	53.5	144.6	221.2	15.1	53.8 D	B
536793.1	6867279	359.1	49	0.8	0	0	18	37.3	86.3	185.5	7.1	29.9 E	B
536963.5	6866777	373.8	49	1.4	5.9	0	16.6	18.8	86.5	150.7	6.5	29.2 F	B
LINE 1	748												
543411.4	6850101	4150.5	54	0.9	0	0	20.3	36	90.1	139.9	8.6	31.6 A	B
LINE 1	750												
521835.4	6906804	3908.5	14	0.5	0	0	9.6	26.3	4.2	98.6	35.6	1.7 A	B
521881.5	6906661	3904.4	14	3.2	6.6	104	36.6	25.5	59.9	62.5	3	15.4 B	B?
521965.5	6906406	3896.8	14	0.1	18.1	12	0.1	30.9	165.9	0	0	0 C	B?

521996.7	6906312	3893.8	14	1.2	0	100	37.9	62.8	165.9	185.5	18.6	54.4 D	B?
522041.7	6906194	3889.9	14	3.1	0	0	103.3	97.8	148.1	177.3	18.6	54.4 E	B
522082.9	6906096	3886.5	14	0.1	24.1	0	0.1	12.7	147.7	231.7	35.6	47.2 F	B?
522114.3	6906029	3884.1	14	2.4	0	0	104.3	126.3	147.7	231.7	35.6	47.2 G	B?
522343.6	6905555	3868.1	14	1.2	17.8	0	11.3	12.4	2.9	6.6	0	0 H	B
522470.7	6905192	3857.2	14	2.3	0	0	52.9	52.8	259.8	164.2	63.4	92.2 I	B
522700.9	6904564	3838.7	14	18.6	20.4	3	27.9	5	179.7	96.8	39.9	58.4 J	B
522875.5	6904178	3826.5	14	1.7	0	2	42.4	53	353.3	266.2	55.5	121 8 K	B?
522894.8	6904126	3824.8	14	89.8	7.3	2	66	5	353.3	266.2	55.5	121 8 L	B?
523068	6903640	3809.8	14	7.4	29	0	16.7	5	173.2	3.3	52	64.6 M	B
523384.4	6902896	3785.7	14	1.3	0	0	32.2	48.3	133.5	183.5	13	45.1 N	B
523430.6	6902763	3781.3	14	1.5	21.1	0	11.5	10.8	2.9	138.9	35.6	2.5 O	B?
523469.6	6902656	3777.7	14	13.1	23.9	7	23	5	135.7	138.9	35.6	38 P	B?
523598.7	6902345	3767.3	14	1.6	0	0	60.7	90.9	226.7	248	14.5	63.6 Q	B
523743.6	6902015	3756.3	14	1.6	0.7	0	31	37.5	6.8	79.5	0	0 R	B?
523963.2	6901454	3738.2	14	0.9	0	0	20.1	36.6	35	70.7	1.5	11.7 S	B?
524194.2	6900847	3719	14	3.9	24.2	0	17.1	8.3	49.9	13.3	0	20.7 T	B
525145.8	6898368	3634.4	14	1.2	2.4	3	22.6	31.2	93.2	118.9	9.7	31.9 U	B?
525336.1	6897854	3617	14	1.1	20.4	0	8.9	10.6	13	15.8	2.6	4.1 V	B?
525373	6897748	3613.4	14	2.1	30	0	10.2	7	2.9	3.3	0	0.1 W	B?
528106.6	6890614	3390.4	14	1.7	0	0	34.3	40.1	82.2	104.9	4.7	22.9 X	D
528300.6	6890114	3375	14	0.3	0	0	7.3	28.7	29.7	68.1	2.2	11.9 Y	S?
529313.6	6887607	3286.2	14	0.3	0	38	5.7	24	14.8	84	1.5	11.2 Z	S?
529577.3	6886790	3253.7	14	0.1	19.9	0	0.1	39.9	48.8	141.4	1.4	19.5 AA	S?
529695.6	6886475	3240.7	14	0.1	0	16	1.6	13.2	12.2	35.4	3.6	5.8 AB	M
529987.8	6885884	3215.3	14	0.7	0	0	14.3	32.8	25.3	77.5	10	10.4 AC	S?
530023.8	6885765	3210.7	14	18.6	20.4	190	27.9	5	57.3	3.3	0	26.6 AD	M
530097.7	6885536	3202.1	14	0.5	0	0	10.4	27.6	44.7	81.7	5.9	0 AE	B?
530251	6885161	3188.3	14	0.1	6.5	0	0.3	31	20.4	99.4	0	15.6 AF	S?
530416.3	6884751	3165.7	14	2	6.4	0	27.9	26.1	14.1	147.6	0	19.2 AG	M
532296.8	6879863	2999.2	14	0.3	0	1	5	24.3	61.8	134.7	7.4	25.2 AH	B?
532380.5	6879631	2991.1	14	0.5	0	0	12.4	35.4	59.3	112.1	6.9	25.4 AI	B?
536324.9	6869460	2620.3	14	0.7	0	0	22.3	63.5	44.7	148.6	1	18.4 AJ	B?
536441.8	6869138	2608	14	1.4	7	1	19.9	23.7	102.6	147.6	10.7	35.6 AK	B?
536613.9	6868679	2594.2	14	0.8	0	1	21.2	43.7	87	150.1	8.6	32.4 AL	B?
537580.5	6866264	2521.3	14	1.8	0	0	54.6	69.3	131.2	175.8	13.8	43.4 AM	B
537923	6865284	2487.1	14	0.6	0	0	16.3	43.2	100.7	187.1	7.7	36.5 AN	B?

537960.4	6865193	2483.2	14	0.7	0	0	20	50.7	96.9	170.6	7.7	30 AO	B?
539229.4	6861997	2388.8	14	0.8	13.3	0	9.4	14.2	18.3	29.3	0	4.5 AP	B?
540459.6	6858826	2279.1	14	0.5	0	1	13.7	46.1	60	113.6	8.1	25.4 AQ	B?
547226.3	6841413	1567.9	14	0.4	0	1	11.9	52.7	86.7	243.2	3.6	37.8 AR	B?
LINE 1	760												
522300.4	6906762	4106.6	14	1.9	0	90	27.8	27.3	50.9	61.6	11.4	16.7 A	B?
522369.1	6906571	4112.1	14	3	0	0	80.7	73.7	141.1	160.8	13.2	38.2 B	B?
522424.5	6906420	4116.4	14	2.6	0	0	45	38.8	110.8	32.3	10.9	34.1 C	B?
522474.9	6906298	4119.8	14	2.6	0	20	79.5	81.8	110.8	73.9	8.2	34.1 D	B?
522635.5	6905959	4129	14	2	0	0	25.3	23.5	184.4	90	66.4	76.6 E	B
522803	6905558	4139.3	14	2.5	0	0	37.5	32.1	209.1	194.6	42.3	63.5 F	B
522926.8	6905220	4147.6	14	2	0	0	33.1	33	52.2	93.8	21.8	21.3 G	B
523061.2	6904860	4156.6	14	1.5	0	0	27.2	33.5	248.8	124.3	0	78.7 H	B?
523150.2	6904619	4163.4	14	5	0	0	84.8	51.3	65.7	145.6	6.4	20.7 I	B
523399.8	6903984	4179.2	14	1.2	0	0	16.7	21.6	181.1	120.5	42.7	61.8 J	B
523661.2	6903350	4194.9	14	0.7	5.5	0	7.1	12	100.2	129.3	10.9	24.9 K	B
523853.6	6902845	4207.2	14	1.6	4.1	0	16.4	16.2	102.5	96.2	13.1	31.4 L	B
523986.6	6902454	4216	14	2.1	0	14	28.7	26.1	69.9	72.8	4	18.9 M	B
524159.1	6901988	4226.7	14	1.5	0	0	24	27.7	69.3	61.7	8.1	21.7 N	B
524210.8	6901848	4229.9	14	0.6	0	0	10.9	27.5	69.3	10.6	8.1	8.3 O	B
524279.2	6901674	4233.9	14	1.4	1.3	0	16.4	18.6	32	8.3	0	8.3 P	B
524599.5	6900896	4251.7	14	1.4	0	3	23.8	30.2	68.3	46.3	0.6	25 Q	B?
524640.9	6900786	4254.2	14	0.5	0	0	7.7	17.4	68.3	26.9	11.4	25 R	B
524694.4	6900640	4257.5	14	1	9.9	0	8.4	10.8	32	6.3	5.5	6.1 S	B
524750.4	6900489	4260.9	14	0.8	0	0	16.9	31.6	28.1	63.7	1.3	9.3 T	B
524839.2	6900254	4266.3	14	0.9	0	0	18	33.6	36.7	85.6	4	15 U	B?
524945.4	6899986	4272.6	14	0.1	0	0	0.7	31	13.5	16.8	9	5.6 V	B
526487.4	6895987	4366.3	14	1.3	6.8	0	12.8	13.6	25.1	28.8	1.4	5 W	B?
528474.6	6890932	4486.4	14	2.4	15.2	0	13.4	8.8	32	32.3	0	8.3 X	D
529467.1	6888142	4561.4	14	0.4	0	0	6.4	19.3	42.7	125.6	2.7	16.4 Y	S
529761	6887605	4577.6	14	0.4	0	0	6.8	18.5	20.9	68.1	0	9.4 Z	S?
530292.5	6886111	4622.2	14	3.9	17.7	215	15	7.1	19.7	24.1	4.6	4.2 AA	M
531015	6884193	4675.4	14	0.8	0.4	0	10	16.6	31.8	55.9	3	10.6 AB	B
536842.1	6869279	5064.5	14	1	0	0	16.5	24.6	90.7	129.5	9.3	31.1 AC	B
537727	6867085	5123.9	14	999	31.2	0	14.4	0	78.9	0	12.3	29.1 AD	B
538061.6	6866270	5145.2	14	999	24.4	0	19	0	33.3	0	7.5	14.6 AE	B?
540308.5	6860344	5298.9	14	1.3	0	0	23.3	30.7	50.9	48.5	0	17.4 AF	B?

540358.4	6860234	5301.8	14	0.9	0	0	14	21.7	50.9	48.5	8.8	17.4 AG	B?
542635	6854336	5471.7	14	0.3	0	0	4.1	16	32	10.7	0.3	8.3 AH	B?
545787.5	6846169	5709.2	14	0.1	14.5	1	0	15	0	0	0	0 AI	B?
546951.8	6843203	5805.1	14	0.4	0	0	6	19.4	42.5	94.8	5.3	19 AJ	B?
LINE 1	770												
522733.1	6906822	8692.3	6	11.3	5	0	41.3	11.5	226.1	162.4	32.2	72.2 A	B?
522792	6906633	8697.4	6	6.4	26.1	0	13.5	4.3	123.7	0.2	27.7	48.1 B	B
522990.4	6906079	8711.5	6	2.2	0	0	31	28.2	204.8	116.8	70.5	75 C	B
523195.7	6905588	8724.4	6	0.8	0	0	15.4	30.1	72.1	108.4	14.9	24.1 D	B
523243.1	6905479	8727.2	6	1.6	9.7	0	14.4	13.4	2.8	53.8	0	0 E	B?
523551.4	6904726	8747.8	6	1.4	0	3	21.7	25.7	270.9	238.2	4.2	85.5 F	B?
523640.3	6904497	8753.7	6	0.1	16.8	0	0	3.7	0	2.8	28.3	0 G	B
523759.8	6904181	8761.5	6	3.4	2.3	1	32.5	20.6	165.8	57.3	41.4	55.7 H	B
523926.4	6903681	8773.9	6	1.3	2.9	0	15.7	19	11.3	25	12.3	5.6 I	B
524285.4	6902739	8798.2	6	1.1	0	2	19.1	27.2	83.2	105.4	0	20.5 J	B
524378.9	6902496	8804.1	6	1.4	0	0	20.5	24.9	4.4	7.2	0.3	1.6 K	D
524557.2	6902063	8814.7	6	1.7	5.4	0	18.1	17.3	76.1	87.5	8.5	21.6 L	D
524609.8	6901939	8817.8	6	0.4	0	0	6.7	18.5	0	0	0	0 M	D
524766.7	6901570	8827.2	6	1.7	0	0	33.4	39	94.6	63.5	0	0 N	B
525280.1	6900223	8860.6	6	0.7	0	0	14.7	30.9	72.4	94.3	9.5	24.6 O	B
525406.8	6899923	8868.3	6	0.7	0	0	12.5	24.2	15.7	35.7	6.3	10.8 P	B
526027.3	6898315	8909.2	6	868.9	56.4	0	6.6	0	15.6	0	4	6.3 Q	D
526727.9	6896479	8955.5	6	1.8	10.4	0	15.2	13	15.6	0	0	0 R	D
527444.5	6894603	9001.9	6	0.3	0	0	3.9	11.9	16.3	21.9	1.3	5.5 S	S?
528425.6	6892116	9064	6	0.5	0	0	9.8	29.3	22.6	64.3	1.3	5.6 T	S?
528506.9	6891891	9069.5	6	0.2	0	0	4.2	21.4	23.2	44.2	1.8	7.5 U	S?
528612.1	6891596	9076.7	6	2.4	6	4	22.3	16.7	54.5	58.4	3.4	13.8 V	B?
528762.4	6891205	9086.6	6	0.6	0	0	9.4	19.1	65	77.7	3.7	18 W	B?
528988.4	6890622	9101.9	6	0.5	0	33	6.7	16	6.7	3.9	1.2	0.2 X	S?
529462	6889380	9145.7	6	0.5	0	3	8.7	23.4	24.8	40.8	2	6.9 Y	B?
530595.5	6886536	9223.5	6	0.5	0	0	10.3	27.6	73.9	117.1	4.9	22 Z	S
530696.9	6886274	9230	6	0.9	0	0	17	29.8	42.4	80.6	3.6	16.9 AA	S?
530730.4	6886175	9232.6	6	0.4	0	298	6.3	20.4	0	0.2	3.6	0 AB	M
531608.8	6883898	9298.9	6	0.1	16.8	0	0	18.8	49.5	24.5	2.8	7.8 AC	D
531801.3	6883388	9312.2	6	1.9	3.9	0	20.5	19	75.3	79.8	4.2	20.1 AD	B?
531846.7	6883266	9315.5	6	1.3	0	0	20.8	26.4	75.3	79.8	8	20.1 AE	B?
531942.5	6883020	9322.2	6	1	5.6	0	11.3	15.4	37.2	34.9	3	7.9 AF	B?

532563.8	6881453	9363.1	6	1.4	0	0	20.4	23.9	137.6	188.6	12.2	46.5 AG	B
533164.7	6879899	9403.4	6	1.2	0.9	0	16.6	21.2	67.5	106.2	6.2	20.7 AH	B
533661.7	6878670	9434.1	6	0.3	0	0	6.1	29.6	26.3	65.8	3.1	9.5 AI	S
534381.9	6876812	9479.2	6	0.5	2.9	0	4.9	11.5	99.9	131.5	5.3	26.8 AJ	S
LINE 1	775												
537104.8	6869728	4743.8	48	1.3	0	0	49	85.4	191.9	329	11.8	67.6 A	B?
537624.1	6868360	4696.4	48	1.6	0	0	33.8	42.7	67.3	106.8	7.2	21.8 B	B?
537982	6867454	4666	48	2.1	0	0	41.6	43.2	150.9	178.4	15	49.1 C	B
544396.1	6850960	4040	48	0.6	4.5	0	8.8	19.1	31	117.5	3.2	16.5 D	S
546368.6	6845855	3822.4	48	1.1	3.3	1	18.7	28.4	26.9	104.9	1.1	14.4 E	S?
LINE 1	780												
540432.3	6862310	7203.5	6	0.5	0	1	10.1	26.1	44.4	93.3	3.3	16 A	S?
540825.8	6861229	7174.7	6	0.7	6.1	1	10.5	20.6	17.4	51.4	2.4	9 B	D
544111.9	6852802	6911.8	6	0.5	0	0	15.2	47.8	78.6	150.4	4.5	26.8 C	S?
544240.4	6852471	6902.4	6	1.1	8.3	0	15.9	21.9	20.9	23.8	3.1	5.8 D	S
544929.9	6850735	6851.2	6	14.1	33.9	0	15.3	2.9	36.8	19.2	3.5	10.1 E	S
548204.9	6842178	6548.2	6	0.7	7.2	0	10.6	19.7	40.4	50.4	3.6	13.7 F	S?
548524.9	6841401	6524.9	6	0.7	11.4	3	8.4	15.2	29.1	45.3	2.6	8.5 G	S?
LINE 1	781												
523112	6906904	8568.7	6	2.9	0	216	112.6	116.5	241.2	256.2	29.5	78.1 A	B?
523158.9	6906776	8565.1	6	1	0	22	30.1	59	0	19.6	0	0 B	B?
523271.3	6906492	8556.9	6	0.2	0	0	3.6	23.4	0	0	0	0 C	B?
523399.3	6906204	8548.7	6	5.7	5.6	0	39.8	18	127.5	72.5	32.3	46.9 D	B
523460.6	6906052	8544.6	6	3.8	13.2	5	23	12.2	0	72.6	0	0 E	B?
523487.6	6905980	8542.7	6	833.2	63.7	0	5.8	0	196.2	72.6	0	73 F	B?
523519.5	6905893	8540.4	6	3.7	0	0	46.2	30.2	196.2	0	0	73 G	B?
523779.9	6905176	8522.2	6	2.2	0	0	36.8	35.3	0	0	0	0 H	E
523906	6904862	8513.7	6	2.1	8.5	2	20.4	17.3	180.8	111.6	43.3	66.1 I	B?
524028.4	6904566	8505.8	6	1.7	17.3	0	12.1	10.5	128.1	51.4	38.8	47 J	B?
524187.1	6904162	8495.4	6	0.9	0	0	17.6	30.1	63	110.2	0	20.9 K	B
524336.2	6903744	8485.1	6	0.7	0	0	12	24.4	109.8	137.8	10.4	36.3 L	B
524550.1	6903190	8470.5	6	0.7	2.8	0	9.6	18.3	68.2	97	4.8	19.2 M	B
524646.2	6902937	8463.5	6	0.7	7.6	3	8.3	14.4	0	0	0	0 N	B
524736.2	6902724	8457.7	6	0.9	0	0	18.8	33.1	104.9	90.9	11.6	31.2 O	B
524868.2	6902390	8449.1	6	2	5.5	1	23.4	20.8	50.5	28.8	0	0 P	D
524947.3	6902180	8443.8	6	1.5	0	0	29.5	36.9	44.1	94.6	0.2	9.3 Q	D
525162.8	6901634	8429.9	6	1.3	3.3	0	18.8	22.6	28.8	19.3	0	9.2 R	D

525373.9	6901091	8415.6	6	1.5	5.4	0	18.4	20.2	83.6	69	0	24.5	S	B
526128.5	6899144	8365.3	6	0.6	14.4	0	5.1	9.3	16.6	15.1	0.9	3.5	T	B
526845.9	6897270	8313.8	6	1.3	3.1	6	18.7	22.9	81.1	86.1	0	24.8	U	E
527022.9	6896853	8302.4	6	0.9	5.5	0	11.6	17.7	31.2	50.2	1.4	9.1	V	D
528733.3	6892414	8184.1	6	0.5	13.5	0	4.9	9.5	21.9	16	1	4.5	W	S
529324.6	6890917	8145.7	6	0.6	3.8	33	8.3	16.6	39.4	66.1	0.8	9.2	X	S?
530110.6	6888885	8083.3	6	0.3	0	0	5.6	21.2	10.7	49.8	1.5	6.5	Y	S?
530266	6888512	8071.6	6	0.8	0	0	14.5	26.3	54.4	88.8	5.7	15.8	Z	S?
530396.9	6888171	8062	6	0	0	317	0.3	3.5	0	0	0	0	AA	M
530636.4	6887532	8045.3	6	0.6	0	0	12.4	30.8	25.4	55	0.9	8.5	AB	S?
530709.6	6887351	8040.4	6	0.6	0	0	9.4	21.3	0	0	2.2	0	AC	S?
530941.1	6886781	8023.6	6	0.6	0	0	16.8	49.2	56.9	127.9	1.8	18.9	AD	S?
530999.8	6886624	8019.3	6	0.5	0	0	6.5	16.9	0	0	3.6	0	AE	S?
531765	6884687	7964	6	2.1	28.9	0	9	6	37	0	0	18.3	AF	B?
532130.6	6883702	7937.7	6	1.1	9.7	1	12.1	15	82	86.2	7.5	23.2	AG	B?
532187.4	6883547	7933.5	6	0.1	19.8	0	0	3.5	122.7	111.9	9.8	35.8	AH	B?
532272.5	6883312	7927	6	0.3	0	1	4.1	15.7	26.2	50.7	1.8	8.9	AI	E
534471.8	6877620	7759.8	6	0.4	7.1	0	3.3	9	0	0	0	0	AJ	S?
534703.8	6877138	7743.8	6	1.1	0.1	1	18.1	26.2	101.8	134.1	5.1	26	AK	S?
535951.6	6873814	7640.9	6	0.6	0	0	9.4	20.3	45.1	86.5	3.8	15.5	AL	S
536545.6	6872304	7590.9	6	0.6	0	0	10.9	24.2	29.4	81.4	2.3	12.4	AM	S?
537371.5	6870179	7527.1	6	0.7	0	1	15.1	35.1	44.6	82.4	8.6	15.4	AN	B?
537800.3	6869043	7496.6	6	1	6.1	0	12.7	17.7	52.4	79.9	5.6	16.5	AO	B?
LINE 1	785													
538297.1	6867765	5588.7	48	0.5	0	0	11.6	31.8	134.4	233.7	12.1	44.9	A	B
538461.5	6867388	5601.1	48	1.5	0	0	31.6	40.2	114.7	171.6	7.5	37.1	B	B
538686.1	6866683	5622.7	48	575	110.9	0	1.9	0	0	13.6	2.9	0	C	B?
538849.4	6866325	5634.8	48	2.8	14.4	0	19	12.1	63.8	103.3	5.5	23.1	D	B?
539385.9	6864927	5678.1	48	0.5	0.2	0	7	16.9	55.2	68.4	0	17.3	E	B?
539501.4	6864668	5690.7	48	0.9	16.4	0	7.3	10	0	0	0	0	F	B?
539588.9	6864420	5701.5	48	0.5	0	0	7.9	21	93.6	132.6	6	30.1	G	B?
LINE 1	790													
523605.1	6906823	3760.8	6	5.5	32.4	6	15.8	5.8	213.2	126.7	70.9	76.6	A	B?
523722.6	6906493	3770.3	6	0.6	26	0	4.6	8	17.7	13.1	6.5	6.8	B	B?
523802.4	6906263	3776.6	6	4.2	18.4	0	27.5	14.1	87.7	25.5	36.2	32.4	C	B
523892.4	6905984	3784.2	6	999	29.8	0	27	0	88.7	0	15.3	32.4	D	B
523923.2	6905884	3787	6	1.7	8.2	1	26.6	29	88.7	114.2	15.3	32.4	E	B

523997.3	6905677	3793	6	215	372.4	4	0	0	301.1	192	5.9	94.9 F	B
524094.8	6905403	3800.9	6	0.1	13.4	0	0.2	62.6	11.3	0	4.2	2.4 G	E
524177.5	6905185	3806.8	6	2.2	16	7	22.2	17.8	190.1	131.4	0	52 H	B?
524350.1	6904759	3817.8	6	2.8	16.9	0	24.4	16.6	100.5	51.8	20.6	34 I	B
524517.1	6904317	3829.2	6	0.7	14.1	0	8.3	15.1	29.8	54.9	0.5	10.3 J	B
524701.9	6903838	3842.4	6	1.1	21.7	0	10	12	33.4	69.2	3.3	11.1 K	B
524784.1	6903595	3849.1	6	0.2	0	0	3.8	20.8	47.4	82.9	5	12.3 L	B
524814.1	6903509	3851.5	6	0.7	4.6	0	12.1	25.5	47.4	82.9	5	12.3 M	B
524846.5	6903420	3854	6	0.1	27.8	0	0	21.4	0	0	0	0 N	B
525015.7	6902988	3865.7	6	0.8	1.4	4	16.7	34.2	35.1	55.8	4.5	5.8 O	D
525059.1	6902872	3868.6	6	1.2	18.1	0	12.5	14.8	53	55.8	0.1	13.5 P	B
525195.4	6902514	3877.5	6	2.2	22.5	0	16.2	12.2	64.2	32.5	0	0 Q	B?
525284.9	6902306	3882.8	6	0.6	16.3	3	7.1	13.1	53.8	7.5	0	15.2 R	B?
525351.6	6902148	3886.9	6	1.2	28	0	8.7	9	26.5	9.9	2	4.8 S	B?
525517.6	6901738	3897.5	6	1	3.6	1	20.5	34.4	49.7	103.3	1.6	16 T	B?
525663.8	6901325	3908	6	0.1	0	0	1	8.9	45.8	42.2	0	12.4 U	B?
525785.1	6900989	3916.5	6	0.9	8.2	0	15.2	24.6	42.4	49.1	13.2	18.7 V	B
526224.5	6899853	3946	6	1.1	29.4	0	7.8	8.4	34.2	65	9.6	10.1 W	B
527572.5	6896410	4037.2	6	0.7	18.1	0	7.5	12.6	48.4	78.1	2.8	15.1 X	S
528539.9	6893941	4102.3	6	0.2	0	0	3.7	25.6	0	47	0	0 Y	S
528692.3	6893559	4112.5	6	0.6	9	2	7.9	17.4	0	0	1.6	1.9 Z	S?
529487.6	6891591	4164.4	6	0.4	0.3	210	7.5	23.4	0	0	1.1	0 AA	M
529518.9	6891512	4166.6	6	0.2	0	0	3.3	16.6	11.5	38.7	2.8	4.6 AB	S?
529877.8	6890578	4194.6	6	0.5	0	28	10.8	32.1	33.9	89.6	2.4	13.6 AC	S?
530114.3	6889978	4212	6	0.8	11.9	16	11.1	18.6	22.8	45.9	1.6	7.4 AD	S?
530485.3	6889065	4236.8	6	0.4	16.1	0	3.2	8.6	17.4	23.3	1.5	6.9 AE	S?
530636.9	6888617	4250	6	0.1	27.8	139	0	23.4	0	0.3	0	0.6 AF	M
530705.1	6888429	4256	6	0.3	7.1	0	2.9	10.9	7.3	33.5	2.8	4.9 AG	M
530926.8	6887870	4273.7	6	0.1	27.8	44	0	28.4	20	128.8	1.1	17.3 AH	S?
531155.9	6887300	4290.5	6	0.4	0	0	8.6	31.6	32.8	78.7	0.5	13.5 AI	S?
532424.8	6883976	4374.7	6	0.9	0	0	31.1	65	257.3	342.1	28.2	91.4 AJ	B?
532762.9	6883096	4397.6	6	0.4	0	0	6.3	22.2	9.1	14.3	1.3	3.5 AK	B?
532803.9	6882993	4400.3	6	0.5	14	0	4.9	11.5	33.4	49.7	4.1	10.9 AL	D
533967.7	6880016	4480.5	6	0.5	0.3	1	8.4	24.9	53.5	0	4.1	17.6 AM	S?
534861.4	6877728	4544.5	6	0.5	11.3	0	5.9	13.8	5.8	44.8	1	6.7 AN	B?
536414.8	6873598	4660.9	6	0.7	27.2	0	5.7	8.3	13.9	0	0.2	0 AO	B?
537096.9	6871896	4711	6	966	57.3	0	9.1	0	20.3	0	0	4.3 AP	B?

538699.9	6867738	4821.1	6	1.1	19.1	0	10.7	13.6	94.6	105.1	11	31.4	AQ	B
539396.1	6865934	4870.5	6	0.4	14.5	1	4.3	10.6	14.7	32.7	0.9	3.5	AR	B?
540228.3	6863875	4928.4	6	0.5	3.1	1	8.5	22.3	73.2	136.1	6	26.9	AS	B?
540258.6	6863803	4930.5	6	0.8	0	0	18.6	41.2	73.2	136.1	6	26.9	AT	B?
541067.8	6861727	4988.8	6	0.4	0	0	6.2	21.5	25.6	72.4	2.6	8	AU	S
545660.7	6849857	5362.9	6	0.4	1.8	1	7.7	22.3	20.6	57.3	3.2	10.2	AV	B?
546538.8	6847655	5468	6	0.7	15	2	8.2	14.6	28	34	1.7	8.1	AW	B?
548891.9	6841624	5683.8	6	0.2	0	1	3.1	16.8	28.9	81.6	2.1	11.6	AX	S?
549248.5	6840734	5712.5	6	0.2	0.9	0	2.9	13.8	16.6	55	1.7	8	AY	S?
LINE 1	800													
524006.4	6906848	3630.8	6	1.4	3.1	0	15.1	16.2	86	72.3	22.9	27.9	A	D
524073.4	6906679	3626.4	6	1.7	0	0	31.1	34.6	34.2	84.2	22.9	14.2	B	B?
524188.5	6906375	3618.7	6	6.9	10.4	0	24	8.3	57.7	24.2	0.4	22.7	C	B?
524232.8	6906256	3615.7	6	2.1	14	0	12.8	9.2	34.2	14.7	0.4	14.2	D	B
524322.2	6906017	3609.6	6	3.3	18.6	1	13.2	6.8	19.2	20	0.4	6.5	E	B
524367.7	6905897	3606.5	6	4	25.7	0	10.9	4.6	34.2	19.5	0.4	8.3	F	B
524469.4	6905646	3599.8	6	3.7	0	0	57.5	40.1	120.5	56.2	0.4	14.2	G	B
524659	6905163	3586.6	6	2.6	5.8	1	20.5	14.2	43.4	36.4	36.8	25.4	H	D
524721.6	6905010	3582.5	6	0.7	0	2	12.6	24.4	34.2	66.6	0.4	14.2	I	B
524977.1	6904359	3565.6	6	1.4	0	0	18.4	21.3	35.7	58.4	6.4	11.6	J	B
525055.9	6904183	3561	6	1	0	0	12.2	17.7	34.2	27.4	2.9	14.2	K	B
525147.6	6903971	3555.4	6	0.7	5.2	0	7	11.8	19.6	27.6	4.7	5	L	B
525213.7	6903808	3551.2	6	2.9	25.4	0	9.6	5.1	93.7	117.8	11.3	32.3	M	B?
525247.4	6903716	3548.9	6	0.6	0	1	7.8	17.5	93.7	117.8	11.3	32.3	N	B?
525389.5	6903333	3539	6	0.4	0	0	10.2	35.2	0	0	0	0	O	E
525439.4	6903213	3535.8	6	1.5	0	0	24.7	29.5	66.5	85.3	0	0	P	B?
525636.9	6902709	3522.2	6	1	11.8	0	7.7	9.6	32.3	26.5	0.4	6.9	Q	B
525720	6902521	3517.1	6	0.5	6.6	0	4.2	8.8	0.2	0	1.6	0	R	B
525775.4	6902399	3513.8	6	0.6	0	2	9.6	21.5	25.1	64.7	2.3	9.3	S	D
525814.9	6902308	3511.4	6	0.7	0	0	12.6	25.6	25.1	64.7	2.3	9.3	T	D
525898.2	6902111	3506.2	6	1.5	0.4	0	17.8	19.2	34.2	14	2.2	5.3	U	B
525962.7	6901952	3501.9	6	1.5	0	0	25.6	29.9	19.3	13.5	1.4	3.2	V	B
526022.1	6901794	3497.7	6	0.8	3	8	9.5	14.4	0	0	0	0	W	B?
526110.8	6901544	3491.2	6	0.7	0	0	11.1	21.1	76.2	59.7	0	21.2	X	B?
526206.3	6901270	3484.1	6	0.6	3.9	0	6.8	12.2	27.9	49.1	0	9.4	Y	B
526241.8	6901163	3481.4	6	0.4	8.8	0	3.4	7.5	29.8	49.1	5.7	10	Z	B
526273.4	6901071	3479.1	6	0.9	0	0	12.6	20	29.8	43.5	5.7	10	AA	B

526345.7	6900849	3473.5	6	0.6	0	0	10.2	24	26.9	64.1	1.4	9.6 AB	B
526450	6900556	3465.9	6	0.3	7.2	3	2.3	6.3	8.2	13.9	0	4 AC	B?
526577.6	6900241	3457.6	6	0.6	14.7	6	4.3	7.2	18.1	21	8.7	9.2 AD	B?
528798.6	6894430	3305.8	6	0.2	0	0	3.3	18.8	0	0	0	0 AE	S?
529694.4	6892112	3245.3	6	3.1	9.3	0	19.1	11.3	83.4	108.3	8.3	25.6 AF	S?
531479.9	6887553	3092.4	6	0.6	0	0	13.1	30.7	30.4	95	1.6	12.3 AG	D
532144.4	6885803	3042.3	6	29.4	141.7	0	0.8	0.1	0.5	99.3	0	0.1 AH	E
532404.9	6885157	3024.5	6	0.9	0	0	12.5	20.1	95.6	111.5	14.4	33.4 AI	B?
533055.9	6883492	2978.2	6	0.4	0	1	4.4	12.4	21.4	43.5	0.8	4.6 AJ	S
533955.5	6881193	2911.4	6	1.4	0	0	21.5	26.5	68.5	92.4	4.5	19.3 AK	S?
534476.8	6879908	2872.9	6	0.4	0	1	7.9	30.3	85.1	180.9	6.3	32.3 AL	B?
535668.3	6876869	2786.8	6	0.7	0	0	10.2	17.8	32.9	72.7	0.4	12.6 AM	S?
536746.5	6874002	2699.6	6	0.5	0	0	6.2	14.1	0.1	0.1	0	0 AN	D
537113.5	6873088	2668.6	6	0.3	0	1	5.8	20.8	38.7	89	4.5	16.3 AO	B?
537942.8	6870901	2599.2	6	1.8	0.1	1	20.6	19.9	40.8	45	7.2	12.1 AP	B?
538800.7	6868720	2535.9	6	1.4	10.3	0	10.9	11	7.2	0	2.9	0 AQ	B?
540068.2	6865400	2432.2	6	0.4	0	0	7.4	25.5	81.8	138.2	9.5	29.5 AR	B?
540174.8	6865159	2421.8	6	0.1	0	1	0.4	11.3	12.7	10.2	2.5	0 AS	D
543454.1	6856728	2154.2	6	0.6	0	0	8.5	19.1	21.2	25.5	2.1	5.5 AT	B?
545011.4	6852689	2009.7	6	0.1	0	0	0.3	10.5	0	5.7	1.4	1.3 AU	B?
545045	6852605	2007.1	6	0.1	0	0	0.7	11	0	0	0.5	0 AV	B?
548879.9	6842708	1630	6	1.6	2.5	0	17.1	17.1	0	8.7	0.1	0 AW	S
549934.9	6839974	1549.5	6	0.7	0	1	12.5	26.9	26.5	56.5	2.1	6.2 AX	S?
LINE 1	815												
524451.4	6906727	9082.6	48	0.1	23	0	0	6.5	106.2	80.9	16.6	34.1 A	B
524575.6	6906469	9073.7	48	2.4	12	0	21.9	16.9	79.5	56.8	30.1	28.4 B	B?
524702.3	6906169	9063.9	48	3.1	9.5	0	29.3	19.4	65.6	49	26	24.8 C	B?
524891.9	6905674	9047.7	48	1.7	9.3	0	19.8	19.7	91.6	60.3	0	4.9 D	B?
524977.8	6905491	9041.3	48	999	37.6	3	15.6	0	107.7	60.3	23.4	36 E	B?
525003.8	6905436	9039.3	48	3.7	14	0	25.6	14.2	107.7	60.3	23.4	36 F	B?
525445.9	6904278	8998.8	48	1.1	0.3	0	20.6	31.9	90.5	126.2	9.6	27 G	B
525555.3	6903962	8989.1	48	1.3	8.9	0	16.3	19.4	82.3	101.3	8.9	24.3 H	B
525924	6902996	8963.3	48	1.5	0	0	30.2	37.4	83.9	121.9	9.8	25 I	B
526014.8	6902789	8957.5	48	0.4	2.5	0	5.9	15.7	15	42.2	2	2.3 J	B
526078.1	6902651	8953.7	48	1	11.8	0	11.7	15.5	35	49.7	0.9	7.4 K	B?
526426.4	6901719	8929	48	1.2	13.3	2	12.8	14.9	62	110	0.1	21 L	B?
526622.6	6901270	8916.2	48	1.2	10.5	1	14.6	17.5	54.3	57	10.2	20.2 M	B?

526999.6	6900255	8887.9	48	1.5	30.9	0	7.7	6.5	38.3	62.2	20.4	23.6 N	B
531223.1	6889358	8574.4	48	1.3	38.5	0	5.5	4.7	7.9	39.2	2.1	6.1 O	M
531259.9	6889287	8570.9	48	1.3	23.9	0	8.8	8.8	6.7	22.6	15.1	4.2 P	B?
531580.8	6888460	8535	48	0.5	4.9	0	6.6	15.4	1.9	14.7	1.2	2.8 Q	M
532594.6	6885788	8438.9	48	0.7	0	2	15.9	36.5	179.9	264.3	14.4	54.8 R	B?
532744	6885404	8425.5	48	1.5	8.8	0	18.1	19.9	115.2	120.2	14.4	36.5 S	B
534448.2	6881038	8278.3	48	1.1	0	0	27.9	47.3	54.8	106.7	1.8	15.5 T	B?
535455.4	6878375	8186.5	48	0.9	3.6	0	15.2	24.4	55.8	86.3	2.9	20.1 U	B?
536279.6	6876307	8115.5	48	0.5	3.1	0	6.6	16.4	0	49.2	1.2	4.5 V	S
536382.9	6876053	8107.4	48	0.6	4.2	0	8.6	18.2	40.3	69.7	2.2	11.7 W	S
536787.1	6875020	8072.9	48	1.2	2.4	0	20	28.4	39.7	54.4	2.1	14.1 X	S
537913	6872108	7976.1	48	2.7	17.8	0	18.1	11.9	4.8	0	0	0 Y	B?
540369.4	6865727	7775	48	0.9	0	0	27.1	55.1	94.5	189	4.6	36.5 Z	B
540465.7	6865522	7764.1	48	0.9	0	1	23.3	44.9	112.8	273.4	4.9	44.4 AA	B
541018.3	6864022	7704	48	1	15.2	0	9.8	12.8	51.7	40.5	4.4	12.8 AB	S?
541259.9	6863432	7682.1	48	0.5	0	1	9.9	26.2	84.6	164.1	4.5	26.4 AC	S
546122.8	6850927	7151.2	48	1.4	6.5	0	19	22.6	65.1	136	6.3	25.2 AD	B?
LINE 1	820												
524865.8	6906930	8641.7	14	1.7	0	0	30.8	35.1	267.6	224.6	54.4	94.7 A	B
524978.9	6906604	8631.3	14	51.3	25.2	0	19.1	1.6	75.4	84.6	32.3	27.9 B	B
525027.1	6906462	8626.7	14	3.8	14.5	0	21.4	11.3	75.4	65.1	0	0 C	B
525088.2	6906317	8622	14	3.4	1.3	1	40.5	27.1	0	100	0	0 D	B?
525202.4	6906064	8613.8	14	1.3	0	0	26.1	36.7	54.5	64.5	11.6	17.5 E	B
525261	6905920	8609.3	14	1.3	8.7	9	13.8	16.1	0	0	11.6	0 F	B?
525887.3	6904297	8556.8	14	1	0	0	20.9	35	25	40.2	0	7.5 G	B
525960.4	6904114	8550.3	14	0.6	0.3	2	9.3	19.3	41.1	57.2	3	12.9 H	B?
526024.1	6903950	8544.4	14	979.2	48	1	9.5	0	0	92.9	0	18.3 I	B
526229.5	6903416	8527.2	14	0.6	2.5	0	8.2	16.8	68.7	117.7	9	26.6 J	B
526292.7	6903243	8520.9	14	0.7	0	0	16.1	34.8	67.9	115.1	0	23.2 K	B?
526405.1	6902900	8507.4	14	0.3	0	0	6.7	29.2	7.5	0	1.4	4.3 L	S?
526490.1	6902621	8497.4	14	0.9	0	0	24.1	48.9	58.5	121.9	3.6	20.2 M	S?
526528	6902492	8493.1	14	0.7	0	0	16.7	38.7	31.2	0	2.2	0 N	S?
526787	6901893	8470.6	14	262.8	28.8	0	17.9	0.5	74.1	0	0	17.3 O	S?
526853.6	6901691	8462.8	14	0.5	0	0	8.2	21.5	14.5	78.3	6.2	6.3 P	B?
526965.4	6901399	8451.3	14	1.2	16.5	1	9.6	10.6	22.4	28	3.8	7 Q	B?
527292.3	6900556	8420.5	14	0.7	0	0	10.5	21.4	93.6	102.9	14.7	33.1 R	B
528017.3	6898757	8359.6	14	0.1	19.7	2	0	14.3	70.4	33.8	9.8	22.3 S	B?

528766.6	6896841	8293.1	14	0.3	0	0	5.9	26.9	33.6	102.4	3.1	13.8 T	S?
528957.3	6896360	8276.3	14	0.4	0	2	8.3	27.5	30.9	53.7	1.3	8.9 U	S?
531011.5	6890981	8104.8	14	0.4	0	47	7.2	25.3	31.2	87.2	3.3	11.9 V	S?
531236.6	6890302	8082.7	14	0.1	0	0	0.7	19.6	29.3	89.2	4.4	12.1 W	B?
531347.3	6890006	8072.1	14	0.4	0	0	15.1	58.7	17.7	120.5	0.6	14.4 X	S?
531532.3	6889621	8057.4	14	0.2	0	0	6.5	40	26.4	70.3	5.1	9.5 Y	S
531934	6888533	8006.1	14	0.5	0	208	7	18.9	25.4	96.5	0.6	12.8 Z	S?
532993.8	6885863	7915.5	14	0.5	0	3	19.2	72	96.6	218	8	36.1 AA	S?
533316.9	6885121	7889.6	14	0.4	0	4	6.4	22.1	39.6	132.6	4.1	17.2 AB	S?
534542.9	6881950	7785.7	14	0.7	0	0	13.9	27.8	59.5	93.1	6.8	19.6 AC	B?
535319.9	6879977	7716.7	14	0.5	0	0	11.1	29.5	56.7	137.1	2.5	21.2 AD	B?
536180.6	6877641	7639.5	14	0.6	0	0	9.6	22.6	2.3	44.3	0.9	4.2 AE	S?
536387.9	6877161	7619.3	14	0.4	0	0	6.4	21.9	40.9	128.4	1.8	17.9 AF	S?
536899.9	6875873	7577.3	14	0.6	0	0	9.2	22.1	45.5	86.2	3	14.7 AG	S
537008.4	6875578	7566.5	14	0.1	19.7	0	0	20.6	4.4	22.5	1	2.2 AH	B?
537274.7	6874859	7536.7	14	0.3	0	0	5.7	28	56.7	128.8	3.5	20.7 AI	S?
537962.6	6873047	7477.3	14	0.9	0	0	21.5	38.5	62.9	118.8	7.7	19.7 AJ	B
540551.8	6866353	7266.8	14	0.5	0	0	15.9	53.7	72.7	161.4	7.8	30.2 AK	B?
540785.6	6865778	7246.5	14	0.1	0	1	2.1	30.9	94.8	215.4	9.5	39 AL	B?
550678.9	6840270	6181.8	14	0.4	0	0	5.4	17.9	20	41.7	3.4	7.9 AM	B?
LINE 1	830												
525199.5	6907007	8764.7	14	1.1	3.1	0	12.3	15.4	71.2	64.8	20.6	25.2 A	B
525308.1	6906763	8771.2	14	0.1	13.9	0	0	30.7	106.8	65.9	34.3	38.1 B	B
525339.6	6906691	8773.1	14	2.3	0	1	38.9	36	106.8	65.9	0	38.1 C	B?
525425.4	6906517	8777.8	14	1.2	0	2	17.6	23.2	85.2	70.6	4.8	26.8 D	B
525499.3	6906337	8782.6	14	1.7	0	0	25	26.9	96.9	70.4	15.7	32.4 E	B?
525601.3	6906064	8789.9	14	0.6	0.3	1	7.9	14.8	25.8	54.1	4.6	9.6 F	B
525774	6905705	8799.7	14	1.1	0.8	0	13.3	17.5	50.6	76.9	7.6	16.1 G	B
526047.6	6905014	8817.4	14	0.3	0	0	4.4	15.3	21.4	51.5	3.6	9.5 H	B
526183.9	6904656	8826.5	14	2.2	12.3	0	13.8	10.1	63.7	95.9	5.1	22.5 I	B
526213.8	6904563	8828.8	14	1	0	0	23.3	40.8	2.5	3	0.1	0 J	B
526260.6	6904420	8832.4	14	1.2	1.4	0	14.5	17.5	0	6	0	0 K	B
526305.6	6904264	8836.2	14	1.1	2.4	0	12.3	15.9	18.5	36.3	2.1	7.2 L	B
526482.7	6903703	8849.5	14	0.8	0	0	15	28.8	110.1	145.3	14.5	41.6 M	B?
526888.8	6902837	8871.4	14	1.2	7	0	10.9	12.7	25.9	39.8	0	9.5 N	D
526969.5	6902637	8876.3	14	0.8	7.1	0	8.1	11.6	0	0.7	1.3	0 O	D
527204.4	6901969	8891.9	14	1.2	0	0	17.7	23.5	89.2	102.9	9.1	27.4 P	B

527249.3	6901857	8894.5	14	0.7	0	0	9.4	16.6	89.2	102.9	9.1	23.2 Q	B
527639.6	6900911	8916.9	14	2.6	9.9	0	16.9	11.2	67.4	64.3	13.3	27.5 R	B
528975.4	6897393	8999.4	14	0.9	7	1	8.2	11.7	2.6	27.1	0.7	5.6 S	S
529785.6	6895306	9048.2	14	0.4	0	5	6.2	19	17.9	39.2	1.2	6.7 T	S?
530002	6894770	9061	14	0.8	0.9	0	9.6	15.6	23.5	16.3	0.7	4.3 U	S
530971.3	6892232	9121.2	14	0.6	0	0	11.3	26.6	36	66.5	0	10.9 V	B?
531014.3	6892112	9124.4	14	0.5	0	0	8.9	25.3	36	66.5	1.1	10.9 W	B?
531370.3	6891243	9150.2	14	0.1	13.9	12	0	20.3	23.5	56.9	0.8	9.6 X	S?
531718	6890354	9175.9	14	0.4	0	0	10.1	35.7	3.7	38.9	1.6	5.6 Y	D
531791.8	6890186	9181.9	14	0.5	0	58	6.6	15.7	0	0	0.2	0 Z	D
531835.9	6890054	9187.2	14	0.1	0	0	1.8	12.1	14.9	14.9	3.6	5 AA	B?
531863.8	6889963	9191.6	14	6.1	84.2	0	2.3	0.5	0	0	0	0 AB	B?
531951.1	6889775	9201	14	0.1	0	0	1.6	10.7	3.7	14.9	0	2.2 AC	B?
532005.8	6889669	9205.2	14	0.2	0	0	4.1	21.2	21.7	48	1.9	6.9 AD	B?
532191.3	6889140	9221.4	14	0.2	0	0	3.3	21.1	36.1	79	0.5	14 AE	S?
532231.1	6889028	9224.5	14	0.3	0	552	3.3	11	36.1	79	0.3	14.3 AF	M
533314	6886127	9310.5	14	0.5	0	4	10.5	31.1	28.6	14.9	1.7	11.7 AG	S?
533885.9	6884635	9351.2	14	0.8	0	0	13	22.9	43.4	64.5	3.6	14.1 AH	S?
536236.8	6878727	9508.9	14	0.4	0	1	7.5	24.2	26.9	88.8	1	11.6 AI	S?
LINE 1	831												
538290.3	6873292	397.9	15	1.5	3.7	0	19.2	21.3	65.3	95.5	3.4	24.5 A	B
538351.4	6873129	402.2	15	0.1	18.9	0	0	5.5	34.6	60.7	3.3	15.8 B	B
538977.6	6871530	442.2	15	2.5	4.2	0	27.3	21.4	88.7	88.3	8.6	29.9 C	B
540547	6867433	548.9	15	0.9	7.8	0	9.8	14.6	48.4	49.5	2.9	14.3 D	S
542720.8	6861829	703.5	15	0.7	0	1	11.5	23.9	23.3	57.7	1.2	7.9 E	S
543915.4	6858784	858.5	15	0.9	0	0	17.4	28.8	9.8	23.9	1.8	4.9 F	S?
544050.5	6858512	872.6	15	0.8	0	0	20.4	43.1	89.9	147.9	4.1	30.7 G	S?
546218.1	6852902	1075.8	15	1.7	0	0	27.5	30.1	82.6	138.7	6.1	28.4 H	S
546789.6	6851470	1114.1	15	0.9	0	0	15.9	28.2	44.7	136	2.7	19.6 I	S?
547266.5	6850123	1169.3	15	0.6	0	0	9.4	20.3	17.8	57	1.2	8.2 J	S
549855.8	6843520	1428.3	15	1.9	24	0	10	7.3	10.3	35.8	1.2	5.7 K	S?
550103.1	6842859	1445.1	15	0.6	16	0	5	8.5	34.5	49.4	6.7	12.4 L	B?
550290.4	6842426	1456.7	15	1.3	27.8	0	6.8	6.2	0	0	1.6	0 M	B?
550876.5	6840913	1503.6	15	965.9	48.4	0	9.1	0	36.2	63.8	2.1	12.7 N	S?
LINE 1	838												
536846.4	6876973	11600 3 54		0.5	2.5	0	9.9	26.1	13.4	69.8	1.7	8.2 A	S
537022.2	6876583	11586 5 54		1	0	2	27.3	51.5	97.2	227.5	4.5	37.7 B	S?

537587.6	6875099	11529 9 54		0.5	1.4	0	9.1	26	35	128.3	2.1	17.9 C	B?
LINE 1	840												
525805.8	6906611	4008.6	15	1.4	0	4	29.3	39.1	158.2	168.8	15.4	52.2 A	B?
526648.8	6904479	3949.3	15	1	0	24	14.2	21.4	38.7	91.7	0.4	10.8 B	D
526895.5	6903818	3929.2	15	1.2	0	0	21.1	28.9	0	0	0	0 C	B?
527020.8	6903514	3919.4	15	1.1	0	0	18.7	28	0	67.9	0	0 D	S?
527141.3	6903185	3908.9	15	1.1	0	0	16.3	23.6	37.1	53.3	2.5	11 E	S?
527240.5	6902932	3900.6	15	1	0	0	17.5	28.3	40.4	52.9	3	13.4 F	S?
527303.5	6902750	3894.7	15	1.1	0	0	21.8	33.4	0	0	2.3	0 G	S?
527541.1	6902126	3875	15	1.4	0	0	29	37.3	2.6	112	0	0.4 H	E
527953.9	6901094	3846.2	15	1.8	0	0	17	15.3	88.6	84.6	13.2	33.9 I	B
528256.3	6900275	3824.3	15	0.8	0	1	13.1	23.2	45.7	94.1	0	20.3 J	B?
528681.4	6899240	3795.2	15	1.8	0	0	18.2	16.8	80.7	83.1	10.4	27.7 K	B?
528736.1	6899083	3790.8	15	1.7	0	5	18.2	17.9	0	0	0	0 L	B?
529618.1	6896803	3727.1	15	1	0	0	7.2	8.9	25.7	18.9	1.4	5.6 M	S
529919.5	6896023	3707.2	15	0.8	0	0	9.1	13.9	19	51	0.7	7.1 N	S
531329.1	6892381	3609.6	15	0.9	0	0	14.5	22.8	34.8	35.2	2.1	1.7 O	S?
531593.3	6891661	3589.2	15	0.4	0	33	4.5	11.5	2.3	35.5	0.8	3.4 P	M
532053.9	6890571	3551.3	15	0.7	0	0	12.5	26.3	11.5	61	1	8.2 Q	S?
534661.4	6883807	3343.9	15	0.8	0	0	12.4	21.6	17.8	53.9	0.7	8.3 R	S?
537532	6876404	3096.6	15	0.9	0	1	13.7	22.6	3.7	68.3	2.5	10.7 S	B?
537944.8	6875385	3065.7	15	0.7	0	0	7	12.2	13.8	29.3	1.8	6.6 T	B?
538984.4	6872647	2977.6	15	1.4	0	1	20.6	25	19	50.5	1.1	7.8 U	B
539378.1	6871706	2949	15	1.5	0	0	20.4	23.3	75.2	124.1	9.6	28.6 V	B
541064.7	6867313	2816.4	15	0.8	0	0	19.4	40	44.8	124.4	3	21.4 W	D
541161.1	6867054	2807.9	15	0.5	0	1	12.9	44.7	33	106.5	2.9	17.4 X	B?
546394	6853578	2262	15	2.6	0	0	16.1	10.6	49.2	80.2	2.3	15.3 Y	S
546482.1	6853343	2255.7	15	1.4	0	0	21.4	26.2	35.6	100	2.9	13.5 Z	S?
546785.7	6852536	2233.8	15	1	0	0	9.8	12.8	15.4	39.5	3.6	7.1 AA	S
547289.8	6851239	2189.4	15	0.7	0	0	14.1	29.6	26.7	37.4	1.2	0.8 AB	S?
LINE 1	850												
526126	6906944	4143.8	15	0.8	0.3	0	15.7	29	39	82.5	0.4	12.8 A	B?
526297.4	6906517	4155.8	15	1	2.9	2	17	26.6	111.6	123.7	13.7	37.3 B	B?
526337.5	6906405	4159	15	1.5	0	1	30.6	38.3	111.6	123.7	1.8	37.3 C	B?
526416.9	6906188	4165.2	15	1	3.8	0	16.6	25.2	29.9	62.8	1.8	11.5 D	B
526632.1	6905605	4182	15	999	48.3	0	10.6	0	45.5	37.8	4.4	11.4 E	B
526764.1	6905274	4191.5	15	0.8	20.6	0	6.3	9.2	0	18.9	1.2	1.9 F	D

526827.4	6905106	4196.3	15	1.6	0	0	36.2	44.9	111.3	176.8	6.2	38.3 G	B
526873.1	6904991	4199.6	15	1.2	0	0	30	46.4	0	12	1.8	0 H	B
526931.4	6904855	4203.5	15	1	2.8	0	17.9	27.2	44.2	24	1.8	3.1 I	B?
527017.8	6904625	4209.6	15	2.4	18.8	0	16.8	11.6	42.9	44.1	0.2	11.7 J	S?
527353.6	6903751	4231.5	15	1.1	0	0	31.8	53.5	55.5	115.3	3.1	7.3 K	B?
527403.6	6903631	4234.7	15	0.8	2	0	13.7	25.4	34.5	69.7	3.5	14.2 L	D
527619.3	6903128	4248.1	15	1.4	7.8	0	18.3	21.3	19.6	33.6	0	7.6 M	S
527687	6902965	4252.3	15	0.9	14	0	9	13.3	0	12	1.9	1.5 N	B?
527928.8	6902402	4267.9	15	1.2	8.5	0	15.9	19.9	43.5	53.4	3.9	12.7 O	S
528519.7	6900746	4311.3	15	0.4	0	0	7.7	22.8	24.8	58.7	5.8	12.9 P	B
528640.2	6900439	4319.4	15	0.9	0	0	18.3	32.2	57.6	106.5	0	2 Q	B
528924.6	6899728	4338	15	999	34.9	0	17.6	0	69.4	64.2	8.1	20.9 R	B
529745.1	6897602	4391.3	15	0.7	0.8	2	12.6	25.4	21.2	52	1.2	7.1 S	S?
531852.8	6892128	4538.9	15	0.7	3.4	38	11.4	22.2	15.8	61	1	7.8 T	M
532099.8	6891504	4555.5	15	1	5.7	0	15.5	22.6	22	51	1.5	8.1 U	S?
532325.9	6890891	4573.6	15	0.5	7.5	0	5.7	13.2	6.3	19.5	0.4	3.3 V	M
533034.4	6889134	4626.5	15	895.8	23.5	0	28.7	0.4	73	126.7	0	25.2 W	B?
533265.9	6888544	4643.9	15	1	7.5	14	14.5	20.3	27.4	59.6	2.5	10 X	S?
533403.1	6888202	4653.9	15	0.1	23.3	0	0	12.1	0	34.4	0.9	3.4 Y	S
533442.9	6888101	4656.8	15	0.5	0.7	1	8.4	20.5	2.2	34.4	0.5	3.4 Z	S?
537871.9	6876641	4985.9	15	0.7	0	0	16.2	40.3	37.3	147.6	3.7	20.1 AA	S?
538838.4	6874170	5056.2	15	1.1	4.3	0	17.1	24.9	0.3	85	0.1	0.6 AB	B?
547149.3	6852703	5694.4	15	0.9	17.3	0	8.1	11.3	11.8	19.6	0.3	4.7 AC	B?
549599.4	6846431	5953.5	15	0.6	0	0	12.6	32.6	53.3	110.6	5.2	24.4 AD	S?
LINE 1	860												
526536.1	6906994	8509.1	15	3.3	25.4	0	22.1	13.1	84.5	102.5	1.4	34.2 A	B
526911	6906007	8483.5	15	1.3	16.5	0	17.5	21.8	41.9	59.1	6.3	16.5 B	B
526973.5	6905840	8479.3	15	1.6	20.1	1	17.8	18.3	0	0	6.3	0 C	B
527034.3	6905681	8475.3	15	0.2	4.9	0	2.3	12.6	0	0	0	0 D	D
527238.3	6905124	8460.7	15	1.2	7.7	0	26.9	39.6	5.6	41.5	0	5.9 E	B?
527291.9	6904975	8456.6	15	1.1	6.4	2	26.4	42.1	18.9	46	0.5	4 F	B?
527337.4	6904861	8453.4	15	0.5	13.1	0	7.7	17.6	18.9	46	0.9	4 G	B?
527433.8	6904622	8446.9	15	1.6	12.6	0	25.5	29.6	109	186.3	4.8	37.1 H	B?
527996.6	6903160	8405.3	15	1.1	23.7	0	11.3	14	0	0	1.5	0 I	B?
528440.6	6902007	8373	15	1.1	17.1	0	15.4	20.5	17.2	60.6	0	1.8 J	B?
528611.8	6901593	8362.1	15	0.7	13.4	0	11.6	21.8	38.2	73.5	5.1	11.2 K	B
528802.7	6901097	8349.1	15	0.5	6.8	1	7.9	22.5	31.6	63.5	4.2	13.5 L	B?

528906.1	6900823	8342.1	15	1.2	14.4	0	18.7	24.7	9.2	51.3	11.8	7.4 M	B
528959.4	6900684	8338.6	15	1.3	19.1	0	16	18.9	96.6	96.1	11.8	36.4 N	B
529335.4	6899698	8312.8	15	999	36.8	0	24.5	0	82.8	150.6	0	33.2 O	B
530762.9	6896004	8209.6	15	0.5	14.7	0	6.7	15.5	21.8	62	0.7	8.4 P	S
531705.8	6893616	8146.5	15	999	40.6	3	20.6	0	69	87.8	3.9	20.6 Q	S?
532397.4	6891788	8097.9	15	1.2	3.2	0	34.5	56.2	65.6	114.3	0	19.7 R	B?
532510.8	6891526	8090.6	15	1.3	18.9	83	15.9	19	39.3	40.5	2	1.6 S	S?
532721.8	6891008	8074.4	15	0.1	32.7	597	0	2.8	5.6	14	0	6.5 T	M
532874.5	6890619	8059.7	15	0.6	15.5	141	7.5	16	0	52.3	0	9 U	S?
533060.7	6890145	8044.7	15	61.4	61.7	76	7.9	0.5	5.6	15.3	4.2	4.2 V	M
535186.1	6884699	7890.6	15	2.1	17.3	0	25.3	22.4	37.4	52.8	3.9	11.9 W	S?
536849.4	6880429	7766.1	15	0.6	19.3	0	7.9	14.7	12.4	26.9	0.6	3.9 X	S?
LINE 1	865												
537751.9	6878039	1965.8	48	0.9	10.7	0	13.6	20.8	54.3	90.9	3.4	17.8 A	B
537817.6	6877874	1971.3	48	0.1	95.1	0	0	0.4	0	0	0	17.5 B	B?
538934.3	6875053	2069.2	48	0.3	2.4	0	4.8	16.8	47.6	67.8	4.8	15 C	B
539096.8	6874590	2082.4	48	0.9	14.4	0	10.7	16.4	82.8	132.1	8.4	27.9 D	B
539762.4	6872877	2133.7	48	1.7	16.5	1	17.9	16.9	52.7	76.6	4	16.3 E	B?
539976.3	6872405	2148.9	48	1.1	14	0	13.4	17.9	60.8	134	4.9	21.4 F	B
542539.6	6865708	2340.3	48	1	24.7	1	7.9	10	38.1	57	3.6	9.6 G	D
543025.8	6864406	2378.1	48	0.7	23	0	6.4	9.9	13.6	15.8	0.2	4.2 H	B?
547356.5	6853289	2708.2	48	0.2	0	0	3.4	15.6	54.5	53.1	3	14.9 I	S?
547829.4	6852133	2753	48	0.6	8.4	0	7.8	17.5	23.4	102.5	0.5	12.8 J	S?
549103.5	6848773	2937.7	48	0.7	8.1	0	10.2	20.3	20.7	74.7	1.2	10.4 K	D
549893.3	6846756	3016.1	48	1.2	5	0	22.7	32.8	65.5	106.4	3.8	21.9 L	B
550794.4	6844468	3086.5	48	0.6	3.1	0	11	25.5	51.4	190.4	3.2	26.9 M	S?
LINE 1	870												
526812.1	6907334	8634.9	15	1.6	12.6	0	20.9	21.7	34.8	76.8	0.6	10.5 A	B
526960.3	6906968	8644.1	15	2.1	17.9	1	19.5	16	57.1	48.5	5.2	16.2 B	B
527202.6	6906287	8661.8	15	3.4	25.3	0	18.2	9.9	35.9	69.3	0.6	11.9 C	B
527267	6906137	8666	15	1	18.5	0	10.8	14.1	0.5	0.7	0.3	0 D	B
527343.7	6905963	8670.9	15	1	4.7	0	20.3	32.6	69.4	131.4	3.9	25.9 E	B
527617.8	6905290	8690.2	15	0.8	0	0	17.5	37.5	16.4	71.7	0.6	5.4 F	B?
527672.1	6905126	8694.7	15	1.2	13.4	0	15.7	19.6	44	72.7	0.5	12.6 G	B?
528286.9	6903550	8736.7	15	1	8.6	0	16.7	25	0	47.6	1.1	8.7 H	S?
528531.2	6902936	8751.5	15	0.1	27.9	0	0	27.3	1.8	0.7	0.1	0.6 I	B
528976.6	6901798	8779.5	15	1.3	14.3	0	16.4	18.9	5.6	64.3	0	1.8 J	B

529051.3	6901645	8783.5	15	0.9	7.4	0	15.8	25.9	68.1	134.5	3.9	23.6 K	B
529385.3	6900838	8804.3	15	1.1	12.6	0	14.9	20	148.2	136.9	16.1	51.7 L	B
529611.3	6900245	8820.7	15	1.1	12.8	0	15.3	20	83.6	125	4.9	26.3 M	B
532040.2	6893881	8991.9	15	2.6	14	0	27.2	20.2	61.5	70	3.8	14.4 N	D
532288.7	6893240	9010.2	15	0.9	20.4	45	8.6	12.1	41.5	117.1	2.3	17.2 O	S?
532759.7	6891966	9043.1	15	1.8	4.1	0	36.1	39.8	81	136.4	1.2	25.5 P	B?
532828.4	6891829	9047	15	0.9	2.6	150	19.6	35.6	0	10.4	4.3	0 Q	B?
532985.1	6891426	9059	15	0.2	22.5	420	1	4	23.5	65.4	1.2	9.9 R	M
533222.1	6890744	9079	15	0.1	0	0	2.2	17.9	23	109.3	1.2	14.5 S	S?
533330.5	6890440	9087.2	15	0.3	20.2	138	2.3	6.5	0	10.4	1.2	4.7 T	M
533929.3	6889012	9125.9	15	0.8	7.6	0	13.2	24	32.4	80	2.1	13.6 U	S?
534571.2	6887362	9168.5	15	0.4	5.8	0	6.2	17.1	8.3	32.7	2.9	4.3 V	D
535768.6	6884271	9251.4	15	0.5	14.5	0	5.1	11.7	0	65.4	1.7	9.9 W	B?
535889.3	6883978	9258.8	15	1	13.5	0	12.4	18.1	57.1	120.1	1.1	23.5 X	S?
536923.4	6881322	9329.6	15	0.1	0	0	1.4	16.8	44.1	49	3.7	12.9 Y	S?
537020.3	6881086	9336.4	15	0.6	11.4	0	7.5	15.7	36.8	49.8	1.1	9.9 Z	D
537063.9	6880952	9340.5	15	0.3	0	0	5.2	22.4	36.8	65.4	3.5	9.9 AA	D
537236.2	6880473	9355.3	15	0.5	7.2	0	7	17.3	20.2	58.3	0.8	10.2 AB	B?
537280.7	6880377	9358.2	15	0.1	0	1	1.4	22.8	20.2	58.3	2	10.2 AC	B?
LINE 1	871												
542670.7	6866475	631.9	16	0.3	0	0	4.7	16.8	1.1	36.1	0.3	0.7 A	B?
543795.3	6863592	711.5	16	0.5	0	0	6.9	15.8	10.7	27.1	0.7	3.3 B	B?
544835.6	6860944	778.3	16	0.7	16	0	5	7.8	12.1	33.1	3.1	6.1 C	S?
545279.9	6859697	810.8	16	0.8	0	3	14.2	25.3	37.2	77.1	2.3	13.1 D	S
545479.5	6859198	824.4	16	1.5	0	9	26.8	33.3	37.3	0	6	0.4 E	L?
545552.8	6858845	833.8	16	4.6	2.2	6	35.8	18.5	18.4	42.1	3.6	6.9 F	L
547900.5	6853003	986.1	16	0.5	0	0	8.5	21.1	1.1	51.3	0.1	6.9 G	S?
548690.3	6850912	1061.8	16	0.1	16	0	0	6.9	15.8	17.6	1.5	4 H	D
548809.4	6850625	1077.1	16	0.4	0	0	4.4	12	2.2	34.7	0.3	5.5 I	D
550320.7	6846726	1255	16	0.5	0	0	10.1	28.1	63.5	118	4.5	22.2 J	S?
552545.4	6840998	1448.6	16	0.4	0	0	5.5	17	36	94.2	3.3	17 K	S?
LINE 1	875												
540100.9	6873134	1662.2	48	1.3	3.6	0	23.6	30.5	110.1	166.5	7.6	37.3 A	B?
540412	6872350	1635.9	48	0.5	0	0	9.5	25.6	123.8	217.3	7.8	45.1 B	B?
541216.3	6870296	1566.3	48	0.1	1.9	0	0.4	14.4	14.2	56.6	0.9	6.1 C	S?
541386.8	6869925	1553.8	48	0.9	0	0	19.8	35.1	37.7	109.6	2.3	16.4 D	S?
541472.1	6869654	1545.3	48	1.4	23.4	0	10	9.8	15.7	4.4	3	0.1 E	S?

LINE 1	881												
527458.2	6906867	993.6	32	3.1	49.5	0	6.2	2.8	18.8	38.9	0.4	0 A	B
528269.3	6904728	936.6	32	0.7	0.3	0	13.1	26.9	27.1	52.7	0.3	7.9 B	B?
528871	6903240	889.4	32	0.7	0	0	15	32.5	0	100.4	1.6	0.2 C	B?
528920.7	6903099	884.7	32	0.9	6	0	13.2	21.5	50.2	62.8	4.5	14.5 D	B?
529184.6	6902382	861.6	32	0.3	0	0	7.1	35.1	2.9	0	0.7	4.8 E	B?
529270.6	6902181	855.1	32	0.7	0	0	16.5	36.8	45	70	3.2	16.8 F	B?
529347.6	6901985	849.1	32	0.9	2.3	1	16.3	27.5	33	51.5	2.3	9.8 G	B?
529413.9	6901803	843.7	32	0.4	0	2	9.1	28.5	30	76.4	0.1	0 H	B?
529559	6901418	832.4	32	1.4	1.5	0	26.1	33.7	110.7	123.4	1.6	31.8 I	B?
529597.4	6901320	829.6	32	0.6	0	0	11.6	28.2	110.7	123.4	0	31.8 J	B?
530153.9	6899857	788.2	32	999	32.6	0	19.8	0	0	0	0.1	0 K	D
531080.3	6897513	709.2	32	1	9.3	2	13.4	18.7	30.8	39.8	3	9.2 L	S?
532013	6895116	642.1	32	0.6	3.7	0	8.5	18.8	33.9	78.2	2.1	11.8 M	S?
532392	6894138	614.4	32	2.4	1.6	0	40.7	36.5	64.4	67.3	3.2	17.6 N	D
532575.5	6893668	599.8	32	0.8	0	0	24.6	59.7	106	213.9	2.7	38.6 O	S?
532734.3	6893265	587.2	32	0.4	0	0	6.7	21	34.5	68.8	4.1	10.5 P	S?
532857.4	6892965	578.6	32	0.7	12.9	0	7.8	13.3	24.3	94.2	1.7	14.4 Q	S
532974.8	6892655	569.7	32	0.4	0	77	6.8	19.9	0	34.6	1.9	9.8 R	B?
533031.9	6892503	565.4	32	0.3	0	0	7	30.6	23.7	86.3	1.1	13 S	S?
533148.5	6892196	556.6	32	1.4	12.2	0	15.6	17	80.4	141.8	0.5	26.9 T	S?
533380.2	6891616	537.7	32	0.1	0	0	0.7	15.2	0	0	2.9	0 U	B?
533418.3	6891513	534.5	32	0.7	8.5	351	9.4	17	21.1	64.5	1.6	9.5 V	M
533516.3	6891237	526.1	32	0.5	2.6	0	7.6	18.5	25.8	108.5	3.7	14.2 W	S
533687.2	6890811	512.1	32	0.4	0	0	7.1	21.5	25.2	118.4	4.5	17.7 X	S?
533875.3	6890342	494.3	32	0.4	5.5	0	5.6	14.1	45.9	91.9	2.7	17.4 Y	S?
533904.2	6890262	491.3	32	0.5	0	0	8.4	22.2	45.9	91.9	2.8	17.4 Z	S?
534369.8	6889051	446.4	32	0.4	8.2	0	4.3	11.3	23.9	54.6	1.3	9 AA	S?
535292.8	6886681	375.9	32	0.5	5.4	0	6.8	15.9	11	42.3	1.4	5.9 AB	S
535798.5	6885274	328.2	32	0.7	11.3	0	7.8	14.2	37.5	41.5	4.1	11.6 AC	S
535956.2	6884887	316.3	32	1.2	2.6	0	20.5	29.5	59.4	70.4	4.1	17.8 AD	D
536038.8	6884653	309.3	32	0.8	0	0	18.4	35.7	77.2	132.5	0	27.5 AE	B?
536561.1	6883243	263.9	32	0.5	0	1	12.6	36.9	16.5	43.9	2	6.4 AF	S?
LINE 1	882												
544133.6	6863930	685	32	0.4	0	1	7.6	22.1	18.5	21.5	2.2	5.7 A	B?
544345.3	6863364	703.9	32	0.1	0	1	2.6	26.4	10.4	49.9	2	7.2 B	S?
544439.9	6863115	710.9	32	0.3	0	0	4.2	13.2	21.3	30.8	1.6	5.8 C	S?

544626.1	6862586	724.4	32	0.4	0	0	6.1	16.5	4.5	5.9	0.7	3.3 D	S
544700.3	6862375	729.7	32	0.1	0	1	0.5	13.8	10.2	66.6	0.2	9.7 E	S?
544746.1	6862249	732.9	32	0.3	0	0	4.2	17.3	8.4	55.4	0.3	8.7 F	S?
545036.4	6861546	752	32	0.2	0	1	2.8	11.2	0	0	2.3	0 G	B?
546062.3	6859757	809.6	32	6.7	17.8	0	20.6	7	21.2	13.9	5.8	7.5 H	L
550552.4	6847349	1226.6	32	0.3	0	0	6.7	37.8	19.2	82.1	0	10.9 I	S
551649.4	6844408	1330	32	0.5	0	0	8.2	19.8	45.7	115.5	1.4	21.4 J	S
LINE 1	888												
540832.3	6872508	10800 0 54		0.8	0	1	14.2	27	106.3	214.8	6.9	41.9 A	S?
543404.4	6865620	11037 8 54		0.3	0	0	5.3	18.9	0	0	2.2	0.3 B	B?
LINE 1	890												
527968.6	6906599	1137.1	17	0.4	0	0	9.1	29.4	68.1	147.9	2.1	27.4 A	B?
528002.4	6906521	1139.5	17	0.4	0	0	4.1	11.1	59.3	147.9	3.6	27.4 B	B?
528621.7	6904938	1186	17	0.5	0	0	9.4	29.2	85.6	118.5	4	26.7 C	S?
528674.5	6904804	1189.7	17	0.7	0	0	17	39.2	85.6	1.5	4.9	26.7 D	S?
529311.6	6903149	1231.2	17	0.8	0	0	13.3	24.5	18.6	40.9	1.2	7.7 E	D
529363.2	6903017	1234.5	17	0.6	0	0	6.2	11	13.7	0	0.6	4.4 F	B?
529404.3	6902914	1237.1	17	0.9	22.8	0	4.1	4.6	0	1.7	0.5	0 G	B?
530530.6	6899989	1313.5	17	0.7	0	0	9.9	19	38.7	52	1.8	9.8 H	D
530599.4	6899818	1318	17	0.3	0	0	5.4	19	0	1.5	1	0 I	D
531068.5	6898589	1350.5	17	1.2	0	0	15.2	19.6	19.9	52.4	0.3	6.9 J	S
531397.7	6897739	1380.8	17	0.2	0	0	3.8	20.8	45.5	172	1.9	24.4 K	S?
532503.4	6894885	1461.4	17	0.4	0	1	4.1	11.4	15.2	40.5	1.3	6.7 L	B?
532720.6	6894362	1476.5	17	1.7	0	0	35.9	43.5	66.3	65	4.9	17.3 M	D
532912.3	6893928	1488.6	17	0.6	0	34	10.1	25.1	102.9	147.9	2.7	31.7 N	S?
532950	6893822	1491.3	17	0.7	0	37	17.6	38.4	102.9	130.9	2.7	28.8 O	S?
533116.9	6893342	1503.6	17	0.1	7.4	0	0	40.9	70.2	200.7	1.3	32 P	S?
533274.3	6892969	1513.9	17	0.6	0	0	10.1	21.8	36.6	109.8	0.8	14.5 Q	S
533730.5	6891765	1547.5	17	0.4	0.8	167	3.1	7.4	2.5	36.2	1.4	5.9 R	M
533825.6	6891545	1553.6	17	0.8	0	0	11.7	20.8	18	1.7	9.4	6.2 S	S?
533908.3	6891344	1560.1	17	0.3	0	24	5.2	25.4	14.8	78.2	0	10.4 T	S?
533940.4	6891252	1563.2	17	0.2	0	0	2.6	15.3	14.8	78.2	4.5	10.4 U	S
534069.3	6890813	1576.2	17	0.5	0	0	9.7	25.2	31.2	43.2	6.4	7.4 V	S?
534124.7	6890678	1579.8	17	0.8	0	0	16.6	32.2	35.8	101	3.4	16.4 W	S?
536250.6	6885242	1735.9	17	1.3	0	0	12.6	14	16.9	32	1.9	6.5 X	B
536337	6885047	1741.1	17	1.2	0	0	14.9	18.4	26.4	32.4	3.7	2.5 Y	B
537052.6	6883188	1791.7	17	0.2	0	1	3	15.6	10.7	19.9	1.6	4.3 Z	B?

537125.8	6883009	1797	17	0.2	0	0	2.8	13.8	30	62.7	1.1	10.3 AA	B?
537651.3	6881717	1835.7	17	0.9	0	0	13.4	21.7	40.3	60.3	0.3	13.6 AB	S?
537739.3	6881510	1841.4	17	1.1	0	0	13.7	18.2	0	17.7	0.9	1.4 AC	S
537932.3	6880927	1857.1	17	0.5	0	0	9.3	23.5	27.4	57.2	1.4	9.1 AD	S?
537968.1	6880830	1859.6	17	0.3	0	0	4.1	12.9	27.4	57.2	0.7	9.1 AE	S
538053.9	6880614	1865.2	17	0.9	0	0	10.6	16.3	26	31	1.6	6.4 AF	S?
538368.1	6879810	1889.3	17	0.9	0	0	20.8	36.7	74	115.3	4.5	23.1 AG	B?
540668.9	6873899	2048	17	0.8	0	1	24.2	51.4	82.7	194.4	5.6	35.8 AH	B?
540784.1	6873572	2059.9	17	0.3	0	0	4.7	16.3	37.7	137.4	2.4	19.2 AI	B
541483.8	6871779	2123.2	17	0.6	2.3	1	5.5	9.5	0	32	1.3	10.4 AJ	B?
541851.1	6870789	2156.5	17	0.6	0	0	6.2	11.9	13.3	36.7	1.6	6.9 AK	B?
542234.1	6869819	2186.1	17	0.7	0	2	8.3	15.1	33.7	51.9	1.6	8.7 AL	S?
542259	6869756	2188.6	17	0.7	0	0	11.3	21.3	33.7	51.9	1.6	8.7 AM	D
546136.7	6859843	2520.1	17	8.2	0	8	60.1	22.9	42.4	34.8	14.6	11.3 AN	L
546389.5	6859234	2536.2	17	1	0	0	11.7	15.6	31.9	79	3.4	12.8 AO	S
548574.1	6853477	2683.7	17	0.2	0	0	3.3	15.1	22	27.3	2.2	6.5 AP	B?
548845.1	6852859	2703.9	17	0.4	0	0	6.7	20.5	14.2	60.9	1	7.4 AQ	S
549329.9	6851547	2746.4	17	0.7	0	0	10.8	22.8	27.1	65.2	0.2	12.1 AR	S?
LINE 1	900												
528261.2	6907049	5681.4	17	0.8	0	0	21.8	48.5	88.1	181.1	5.7	35.3 A	S?
528881.5	6905478	5639	17	0.9	1.9	0	14	22.3	11.7	20.6	2.6	2.3 B	S
528956.1	6905260	5632.2	17	0.7	0	0	14.5	30.1	17.7	51.2	2.2	9.2 C	S?
529409.8	6904075	5593.8	17	1.1	0	0	22.4	35.4	91.2	188.6	4.1	33.7 D	B
530019.6	6902483	5547	17	3.2	18.6	0	16.8	9.5	5	0	0.8	0 E	D
530271.4	6901795	5527	17	0.1	0	0	1.2	17.3	137.2	85.6	0.8	41.9 F	B
530315.6	6901683	5523.7	17	1.3	0	0	26.9	37.1	137.2	85.6	17.4	41.9 G	B
530618.4	6900905	5501.7	17	2.3	20.3	0	13.1	9.1	45.6	26.1	0	0 H	B
530919.3	6900120	5477.8	17	0.9	0	0	20.2	38.1	28.7	82.8	1	11.7 I	D
531415.5	6898811	5438.1	17	0.6	0	5	12.2	27.3	16.6	55.6	1.1	6.9 J	S?
531481.8	6898648	5432.3	17	0.3	0	5	4.4	17.3	0	26.5	0.9	2.8 K	S?
533606.3	6893143	5262.8	17	1.1	4.1	118	15.2	20.8	33.2	18.6	0.8	6.1 L	S?
533861.8	6892518	5244.1	17	0.4	0	325	9.3	39.4	5.8	69.6	4.9	0 M	B?
534008.8	6892075	5231.3	17	0.5	6.1	178	6	12.9	0	0	1.7	8 N	M
534125.1	6891683	5219.7	17	0.1	20.1	0	0	17.4	29.5	66.9	2.1	11.8 O	B?
534735.8	6890282	5164	17	0.6	0	2	15.4	41.4	35.1	105.2	1.1	15.5 P	S?
535022.3	6889552	5141.4	17	0.6	0	0	11.3	28.3	23.6	85	3.1	12.5 Q	S?
535632.9	6888077	5092.7	17	1.2	9.7	0	13.2	15.5	60.6	94.7	4.3	18 R	S

535838.7	6887532	5077.7	17	0.7	0	0	12.4	27.5	41.2	95.5	1.3	16.8 S	D
537398.7	6883438	4949.5	17	0.4	0.3	0	5.5	14.8	21.5	36.7	3.9	7.4 T	B?
538032.1	6881813	4901.1	17	0.8	0	0	15.6	29.1	0	0	1.8	0 U	S
543454.3	6867823	4415.8	17	0.7	0	0	13.2	29.2	21.9	51.9	1.2	8.5 V	S?
544806.9	6864331	4286.1	17	0.6	0.3	1	8	18.1	5.8	52.3	0.7	6.8 W	S?
546502.8	6859853	4081.5	17	999	24.3	0	24.4	0	17.8	0	5.8	2.9 X	L
546651.1	6859492	4068.9	17	0.6	0	0	14.6	35.8	49.9	138.9	5.8	22.6 Y	S?
548865.9	6853922	3896.8	17	0.8	0	0	16.3	30.3	28.2	77.9	3.2	12.9 Z	S
549019.7	6853480	3882.1	17	0.6	0	0	9.8	21.9	22.1	53.8	1.9	9 AA	S
553184.9	6842732	3398.8	17	0.4	0	1	7.1	20.1	22.5	60.5	1	9.4 AB	S?
LINE 1	910												
529306.4	6905428	5837.9	17	0.8	0	0	13.5	24.7	0	50.8	0	1.2 A	S
530273.9	6902848	5902.7	17	3.4	7.1	0	15.1	7.9	0	35	1.6	8.7 B	D
530672.8	6901886	5927.4	17	1	0	0	10.2	13.8	46.9	40.8	8.3	13.5 C	B
530934.7	6901229	5944.6	17	0.1	88.8	0	0.1	0.3	6.4	2.8	0	0.3 D	B?
531214.4	6900516	5963.8	17	0.4	0	0	5.9	17.8	0	27.7	0.5	2.5 E	S
531305.2	6900257	5970.2	17	0.9	0	0	17.5	32.2	29.1	57.8	3.8	10.3 F	D
531567.4	6899602	5985.8	17	0.3	0	0	5.6	21	11.4	41.2	1.7	5.8 G	B?
533166.6	6895408	6101.6	17	0.5	0	0	4.8	10.2	4	28.1	0.8	3.5 H	B?
533207.1	6895288	6104.7	17	0.3	0	0	3.2	12.2	4	28.1	2.2	3.5 I	B?
533450.8	6894635	6121.2	17	1.2	0	1	12.8	15.4	90.2	152.5	5.6	34.4 J	B?
533608.1	6894254	6131.5	17	0.9	0	243	14.9	23.8	51.5	91	1.1	19 K	B?
534013.8	6893217	6159.8	17	1.2	0	0	20.3	28.3	74.9	87.2	5.6	23.6 L	B?
534687.7	6891549	6211.7	17	0.1	5.3	86	0.1	16.2	33.4	9.5	5.7	1.3 M	M
535715.2	6888854	6291.2	17	0.5	0	0	5.5	11.6	9.6	12.3	0.7	4.1 N	B?
537097.7	6885305	6393.9	17	0.9	0	1	15	23.6	37.2	61.2	2.3	11.4 O	B
537403.6	6884534	6414.2	17	0.6	0	0	12	32.1	42.2	103.7	2	16.8 P	S?
543129.5	6869811	6825	17	0.7	0	0	10.4	18.7	19.6	12.8	2.6	3.7 Q	D
547359.8	6859750	7208.2	17	3.8	14.5	0	11.7	5.3	55.5	140.6	6.7	21 R	B?
547211.4	6859541	7217.2	17	4.3	62.8	2	2.9	0.8	7.3	1.8	4.6	1.3 S	B?
550141.1	6851689	7439.1	17	0.1	0	1	0.9	10.1	38.5	85.9	0.6	11.4 T	B?
LINE 1	920												
547360.8	6859944	8668.5	17	1.5	3.1	0	20.3	22.8	2.8	8.6	1.7	2 A	B?
547444.2	6859790	8662.7	17	0.7	0	0	26.8	69.2	78.2	234.4	6.5	38.9 B	B
548260.5	6857682	8597.4	17	0.4	0	6	11.2	50.2	34.3	101.9	3.1	16.7 C	D
549095.6	6855462	8517.9	17	0.7	0	0	18.1	40.1	26.8	126.4	1.3	15.2 D	S
552017.3	6848031	8222.6	17	0.1	0	0	0.5	16.5	4.1	27.6	0.6	4 E	B?

552265.1	6847419	8200.6	17	0.4	0	0	7.2	22.3	28.4	87.3	1.6	12.6 F	S
LINE 1	921												
531265.5	6901414	837.9	18	0.9	14.2	8	12.6	19.4	61	48.2	0	19 A	S?
531384.4	6901140	831.1	18	0.1	30	0	0	20	0	51.1	0	0 B	S
531633	6900455	812.7	18	0.9	18.6	0	9.8	14.8	32.5	58.4	3	10.1 C	S
533783.1	6894938	672.7	18	1.2	9.3	0	21.6	29.2	79.5	118	8.5	24.6 D	B
533906.6	6894588	665.1	18	0.6	16.2	173	7.4	14.5	46.1	71.7	0	14.5 E	B?
534290.6	6893671	644.5	18	0.8	18.7	0	8.6	14	145.7	167.5	0	43.6 F	B
534594.6	6892822	621.4	18	0.6	19.3	39	6.3	12.2	14.9	42.2	0	6.6 G	S?
534781.1	6892301	605.1	18	0.6	9.3	46	9.5	20.4	0	8	1.7	0.6 H	S?
534864.6	6892113	599.6	18	0.1	0	0	4.4	44.4	42	116.9	4	15.5 I	S?
537431.4	6885549	430.1	18	0.8	9.6	0	14	24.7	52.9	122.1	4.8	22.4 J	B?
538002.7	6883963	389.6	18	0.7	10.7	0	10.5	20.9	18.5	33.5	1.2	6.8 K	S?
538282.3	6883382	374.1	18	0.7	7.1	0	12.6	25.9	38.9	0	0	0 L	S?
539012.7	6881473	311.9	18	0.5	16	1	5.4	12.2	0	0	0.2	3.7 M	D
539861.2	6879329	240.9	18	0.5	13.3	0	5.4	13.2	49.5	86.9	3.2	15.6 N	S?
LINE 1	930												
529795.1	6906386	1105.3	18	1.1	20	0	11.5	14.3	30.9	38.2	2.4	7.6 A	D
529937.4	6906012	1117.1	18	0.8	11.7	0	12.2	20.7	6.5	26.7	2.4	3.4 B	D
531385.5	6902351	1218.2	18	1.5	34.1	0	8.8	7.5	21.1	26.5	3.3	7.5 C	B?
531606.3	6901753	1235.5	18	1.3	13.8	0	18.1	21.4	56.9	94.2	4	20 D	S
531796.3	6901303	1247.6	18	0.1	29.4	0	0	18.1	6.5	11.9	0.1	3.4 E	D
534377.6	6894537	1422.7	18	0.9	8.9	0	14.6	25.2	25.5	44.2	1.2	8.4 F	B?
534665.2	6893806	1442.3	18	999	53.9	0	10.8	0	8.1	28.3	4.3	5.1 G	E
534982.1	6893000	1473.2	18	0.5	1.8	0	10.5	28.2	63.1	158.3	3.4	24.4 H	S?
535173.1	6892474	1489.5	18	0.4	4.2	18	6.6	20	10.3	82.4	0.5	10.1 I	S?
535482.4	6891748	1512	18	793.1	78.6	0	5	0	35.9	136.5	5.3	18.1 J	B?
535648.2	6891377	1523.4	18	1.1	9.4	0	18.3	26.7	68.1	173	5.2	30 K	B?
538591.4	6883701	1751	18	0.6	15	0	6.9	14.1	37.3	73.1	2.3	15.8 L	S?
538689.4	6883463	1758.3	18	0.6	15.6	0	7.2	14.4	10.3	20.5	0.9	4.9 M	S?
538781.3	6883206	1765.9	18	0.8	8.9	0	14	24.8	58.6	94.5	3.7	17.1 N	S?
544184.3	6869264	2230.9	18	0	0	0	3	16.7	0	0.4	0.6	0 O	S?
544280.9	6869020	2242.6	18	0	0	0	0.5	13.2	29	45.3	1.2	7.9 P	S
544336.2	6868879	2248	18	0.3	0	0	5.6	22	6.5	75.7	1.9	11.7 Q	S?
547757.8	6859830	2645.1	18	0.7	0	0	19.2	45.7	62.9	171.5	5.9	24.8 R	B?
LINE 1	940												
530025.4	6906866	5590.2	18	0.6	0	0	11.4	27.2	60.1	156.4	3.7	24.4 A	B

530143.1	6906519	5581.3	18	0.9	0	0	14.4	22.7	63.1	129.4	2.8	21.2 B	B?
530267.2	6906177	5572.7	18	0.6	0	0	9.2	20	16.7	20	0.7	4.6 C	B?
530574.2	6905455	5551.4	18	0.3	0	0	5.4	18.8	0	0	2.5	0 D	D
530661.7	6905202	5544.4	18	0.7	0	0	8.9	16.7	44.9	63.3	2.5	12.6 E	B?
531202.8	6903818	5508.7	18	0.6	0	1	18.2	49	2.6	123.3	2.6	18.6 F	S?
531357.3	6903411	5498.6	18	0.8	0	1	18.5	36.8	80.3	117.1	5.1	19.8 G	B?
531536.1	6902949	5487.1	18	1	0	0	13.1	19.5	40.2	92.5	2.8	14.7 H	B?
532185.4	6901264	5441.7	18	0.6	0	0	8.8	18.4	0	21	0.5	1 I	D
532401.8	6900725	5426.7	18	0.6	0	0	8.4	16	5.2	0	1.1	1.2 J	B?
533641.6	6897592	5344.3	18	2	0	0	20.2	17.6	43.7	44.2	2.9	11.2 K	B?
534189.1	6896086	5307.8	18	0.2	0	0	3.2	16.5	15.7	0	0	6.3 L	B?
534546	6895207	5286.8	18	1.1	12.8	188	7.3	8.1	30.9	65.3	3.6	12.9 M	B?
534756.9	6894682	5274.2	18	1.4	0	0	25.3	31.4	93.1	122.8	0	29.7 N	B?
535297.5	6893246	5235.3	18	0.6	0	0	13	31.1	28.9	87.7	0.8	12.3 O	S?
535643	6892382	5206.3	18	1.5	0	0	21.3	24.2	115.7	176.4	6.7	36 P	B?
539139.7	6883327	4953.8	18	1.1	0	0	27.5	46.7	61.3	108.5	3.8	19.1 Q	B?
539601.4	6882048	4918.4	18	0.5	0	0	5.6	12.9	3.7	15.9	0.2	2.3 R	S?
540783.9	6878962	4826.1	18	0.5	0	0	9.3	24.8	6.6	36	1.2	3.1 S	B?
544238.3	6870211	4569.8	18	0.3	0	0	3.7	11.9	51.9	52.3	6.7	15.3 T	B?
545255.3	6867647	4467.3	18	0.4	0	0	9.8	35.6	37.2	105.7	2.6	16.7 U	S?
548242.3	6859845	4077.1	18	2.3	6.2	0	16.4	11.7	43.2	110.5	7.1	12 V	D
549068.7	6857702	4020	18	1.4	7.1	0	11.3	11	55.5	43.1	1.4	16.6 W	S?
549116	6857574	4016.9	18	1.9	0	1	20.5	18.9	47.9	39.2	6.4	14.9 X	S?
550331.6	6854576	3941	18	0.4	0	0	7.4	21.9	20.1	104.6	1.7	14.8 Y	S
550462.6	6854160	3929.3	18	0.4	0	0	8.8	31.8	41.8	125.3	1.8	18.6 Z	S?
551052	6852645	3869.6	18	0.4	0	0	7.1	20	12.8	46.7	0.8	6.2 AA	B?
551660.8	6851034	3814.4	18	0.5	13.8	1	3	5.8	25	81.1	1.8	11.9 AB	B?
552148.9	6849826	3767.7	18	0.4	0	0	5.6	16.5	29.5	87.1	1.3	13.1 AC	S?
LINE 1	950												
530561.7	6906566	5731.4	18	10.1	37.6	0	16.3	3.9	31.5	50.2	2.3	10.6 A	B?
531189.5	6904974	5781.5	18	0.8	6	2	17.8	33.4	6.9	91.4	1.9	14.7 B	B?
531361	6904522	5794.4	18	0.6	1.6	0	12.6	33.3	4.8	31.8	0.6	3.9 C	S
531753.2	6903429	5824.6	18	1	22.4	0	9.9	13.2	36.6	53	4	8.9 D	B?
532022.9	6902819	5842.9	18	0.8	7.6	0	15.2	28.9	99	199.9	6.6	37.3 E	B
532421.3	6901721	5873.5	18	0.5	21.2	4	4.8	10.1	65.4	39.9	0.4	5.7 F	S?
532602.8	6901281	5884.8	18	0.6	30.5	0	4.6	7.6	10.6	11.5	0.3	0.4 G	D
533952.9	6897896	5974.3	18	5.8	30	6	20.3	7.6	111.1	60.5	6.2	22.3 H	B?

534450.3	6896561	6009.4	18	0.6	3.5	0	11.3	29	14	63.4	2.9	8.5 I	S?
534810	6895584	6034.4	18	1.5	15.8	0	18.9	21	76.4	114.9	7.3	26.1 J	B
535104.3	6894831	6055.9	18	0.7	23.3	176	6.5	11	37.5	86.2	1.2	13.3 K	B?
535300.9	6894349	6069.9	18	1.3	7.5	0	25.5	35.3	113.5	105.9	1.1	33.3 L	B?
535470.6	6893938	6081.6	18	0.5	3.3	0	9.5	26.7	0.8	87.4	2.1	0 M	D
535518.3	6893821	6084.9	18	0.4	11.3	109	4.8	13.6	20.5	87.4	3.9	13.7 N	M
536062.8	6892472	6126.7	18	0.1	30.8	0	0	17.6	0	11.5	1.1	0.4 O	D
538082.6	6887172	6269.2	18	0.8	3.4	0	18.5	37.7	52.2	81.6	4.6	18.8 P	B
538146.6	6887021	6273.7	18	0.8	2.6	0	17.8	38.3	3.4	142.2	5.1	23.3 Q	B
539516.6	6883509	6376.6	18	1	12.8	1	15.3	22.9	0	4.9	0.2	0.4 R	S?
539626.3	6883268	6383.3	18	1	12.2	0	15.9	23.9	23.8	63.5	1	9.3 S	S?
540188.6	6881743	6429.5	18	0.4	0	0	9.6	30.9	35.6	130.1	1.9	17.9 T	S?
543875.9	6872202	6718.4	18	1	17	0	13	17.9	20.8	30.9	2.9	2.9 U	D
543968.8	6871960	6724.9	18	0.5	13.8	0	6.9	15.2	0	49.1	4	8.2 V	D
544378.5	6870973	6754.4	18	0.4	4.5	0	5.6	19.1	50.7	120.6	3.3	19.7 W	B?
544905.5	6869642	6792	18	0.6	16.9	1	7.7	14.8	23.2	33.4	2.2	6.4 X	D
546449.8	6865652	6917.4	18	0.4	0	0	9.4	33.5	20.7	81	2.2	10.6 Y	B?
546570.4	6865325	6926.6	18	0.7	2.3	0	17.1	37.9	0	91.2	0	2.8 Z	B?
548756.4	6859608	7205.7	18	0.6	2.6	1	11.9	30.8	85	179	9.7	34.2 AA	B?
548689.1	6859319	7214.7	18	1.4	9.6	0	24.3	31.1	91.4	124.3	6.4	27.6 AB	B?
549400.3	6858123	7252.4	18	0.6	2.4	0	12.2	31.5	70	110.5	6.1	22.9 AC	B
550775	6854498	7345.3	18	1.5	13.4	2	22	24.7	61.2	112.4	2.9	20.6 AD	B?
LINE 1	960												
551128.4	6854710	8226.9	18	0.7	0	0	17.6	42.5	59.2	117.6	3.7	20.5 A	S?
551163.2	6854592	8223.3	18	0.9	1.1	0	10.2	14.5	59.2	117.6	3.4	20.5 B	B?
551213.8	6854430	8218.1	18	0.3	0	1	5.4	20.9	31.5	153.2	1.7	22 C	S?
552478.1	6851235	8106.1	18	0.5	0	0	8.6	25	54.3	154.7	3.2	25 D	S?
552839.8	6850151	8059.4	18	0.4	0	0	4.9	16.2	10.9	49.8	1.4	6.1 E	D
LINE 1	961												
531736.2	6904754	9693.7	18	0.8	0	0	19.3	38.9	40.2	101.7	1.9	14.3 A	D
531880.3	6904387	9684.7	18	1.2	3.1	1	16.6	21.6	65.5	106.4	3.8	16.6 B	S
532042.1	6903970	9675.4	18	0.7	0	0	16	34.5	55.9	102.6	3.5	17.2 C	B?
532297.1	6903234	9658.6	18	0.2	0.8	18	1.7	7.5	0	0	1.4	2.2 D	D
533220	6900963	9591.4	18	1.1	0	0	20	29.5	44.9	127.4	3	19.3 E	S?
535024.3	6896228	9477.7	18	1.6	8.1	0	17.1	17.1	68.2	66.4	0.5	20.2 F	B
535276.9	6895648	9464.2	18	2	8	0	20.4	17.4	55.9	5.6	0.5	11.4 G	B?
535469.5	6895171	9452.4	18	0.5	0	100	8.1	23.9	0	0	0.8	0 H	S?

535914	6894007	9418	18	0.7	0	38	12.7	27.8	45.7	107.9	4.3	18.4 I	S?
536170.4	6893401	9398.9	18	1	0	0	17.1	26.4	79.7	115.8	5.6	25.2 J	S?
537023.8	6891169	9340.9	18	0.5	0	0	10.8	29.6	21.6	78.3	2.8	11.8 K	S
537381.1	6890238	9317.6	18	0.6	0	0	11.2	25.2	39.7	95.2	2.9	14.3 L	B?
538231.8	6888001	9259.4	18	0.1	0	0	1.4	10.2	0	75	4.1	16.1 M	B
538286.8	6887870	9255.8	18	0.4	0	0	5.6	17.6	35.7	75	2.7	16.1 N	D
538477.5	6887382	9243.2	18	0.4	0	1	9.4	38.7	85.4	211.4	5.9	34 O	B?
539804.9	6883936	9150.6	18	0.2	0	1	2.8	20	71.4	142.4	4.9	23.7 P	S?
539969.3	6883461	9139.3	18	0.8	0	1	16.6	32	25.2	73.5	3.3	9.1 Q	S?
540189.6	6882840	9123.3	18	0.3	0	0	4.9	22.6	53.1	163.1	4.9	24 R	S
542485.6	6877084	8949.1	18	0.7	0	1	11.2	22.5	45.4	113.6	4.4	18 S	B?
544316.2	6872329	8820.2	18	0.6	0	1	10.9	26.6	39.6	62	6	13.5 T	B?
544454.1	6871966	8810.2	18	0.7	0	0	13.7	26.8	9.5	48.3	0.7	5.6 U	B
544547	6871726	8803.5	18	0.5	0	0	8.9	24.3	41.3	101	2.3	16.8 V	B
LINE 1	966												
544791.4	6871116	461.7	52	1.6	13.7	0	17	16.8	78.8	114.8	6.3	25.8 A	S?
544948.8	6870721	479.1	52	0.5	0.6	0	7.7	20.7	47.6	113.4	2.7	18.6 B	B?
545562.8	6869051	556.3	52	0.5	0	0	10.4	31.9	26.5	65.4	2.1	11.4 C	S?
546172.1	6867509	620.7	52	0.7	0	0	15.3	35.8	52.3	88.6	3.3	16.3 D	B?
546270.4	6867233	631.1	52	0.8	0.9	1	16.1	30.6	0	0	2.5	0 E	D
LINE 1	970												
531449.3	6906632	9890.1	18	0.9	9.6	1	12.5	19.7	0	1.8	0.1	1.3 A	D
532075.7	6905080	9930.8	18	0.3	0	0	6.5	26.1	86.4	196	1.6	33.1 B	S?
532360.7	6904264	9951	18	0.8	0	0	16.7	34.5	81.4	161	6.1	27.4 C	B?
532644.3	6903592	9969.2	18	0.7	16.9	6	7.3	12.1	11.3	36.1	0.4	3.4 D	B?
532769.3	6903258	9978.3	18	1.2	8.4	0	17.4	23.3	21.3	34.9	1.3	4.8 E	D
533163.6	6902204	10007 7 18		0.2	0	0	2.6	13.3	14.2	34.4	1.9	5 F	B?
533434.4	6901518	10031 0 18		0.2	0	0	3.5	19	44.1	111.5	3.5	17.8 G	S?
534557.4	6898629	10107 9 18		0.4	5.8	0	4.3	13	0	0.3	1.5	0 H	S?
535411.6	6896455	10165 0 18		0.7	7.1	0	10.9	20.8	64	74.5	8	21 I	B?
535491.4	6896245	10170 0 18		2.2	15.4	0	20.9	16.5	11.8	26.3	8.1	3.4 J	B
535558.2	6896030	10175 0 18		4.4	24.3	0	19.2	8.8	64.5	56	8.1	19.2 K	B?
535862.5	6895294	10194 8 18		0.7	0	0	18.6	42.1	50.8	165.3	1	22.8 L	S?
535926.9	6895156	10198 4 18		0.1	0	0	1.3	15.5	0	0	0.5	0 M	B?
535980.1	6895029	10201 6 18		0.6	0	280	12.5	28.8	13.9	1.4	1.4	0 N	B?
536167.1	6894545	10213 8 18		0.2	0	0	4.4	25.8	15.8	74.3	0.3	9.8 O	S?
536978.6	6892322	10271 4 18		0.7	13.6	0	8	14.2	29.1	28.2	1.3	7.5 P	D

537872.5	6890088	10329 4 18	0.1	25.9	0	0	22.4	0	0	0	0 Q	B?
537907.1	6889943	10333 0 18	1.1	1.9	0	22	34.9	64.2	140.9	5.3	22.2 R	B
538423.5	6888606	10366 5 18	0.7	2.2	0	12.2	26.1	53	96	4.7	18.9 S	B
538555.2	6888256	10374 7 18	0.6	2.8	0	9.7	22.6	44.5	87.8	2	15.9 T	B
540313.3	6883742	10499 6 18	0.3	0	1	5.4	19	26.8	68.7	2.5	10.6 U	S?
LINE 1	971											
545373.9	6870681	213.3 19	0.6	0	0	9.2	18.4	21	46	1.3	7.6 A	B?
545756.7	6869707	245 19	0.9	15.7	0	6.8	8.5	19.8	20.6	0.9	6.2 B	B?
547148.4	6866122	363.1 19	0.6	0	0	8.3	17.9	29.5	72.9	2.5	12.3 C	S?
LINE 1	975											
543497.6	6875561	440.5 51	0.4	0	0	5.6	16.4	15.3	76.4	1.4	11.7 A	B
543831.9	6874686	473.7 51	0.8	0	0	19.6	41.9	50	177.1	2.5	26.7 B	B?
544973.3	6871835	584.9 51	0.8	0	0	14.8	27.9	24.6	80.8	2	12.5 C	D
545385.1	6870696	628.6 51	0.7	0	1	15.7	33	31.5	94.2	1.4	14.8 D	B?
LINE 1	981											
532376.1	6905275	3324 19	2.3	18.2	0	12	8.1	46.7	55.6	4.9	5.2 A	D
532624	6904652	3307.1 19	1	0	0	16.3	25.4	57.9	109.2	5.4	22.4 B	B
532774.7	6904227	3296.3 19	1.2	0	0	18.1	23.3	32.8	60.6	2.6	10 C	D
533318.7	6902913	3258.4 19	0.7	0	1	11.5	23.8	24.4	93.7	2.5	12.8 D	B?
535732.9	6896625	3077.4 19	1.1	4.6	67	12.6	15.7	14.1	84.5	7.9	16.5 E	B
535773.3	6896503	3073.7 19	0.7	49.4	0	2.2	2.4	14.1	123.6	2.7	2.2 F	B
535812.7	6896407	3070.8 19	0.4	0	0	9.4	37.8	146.5	123.6	11.6	45.4 G	B?
535873.4	6896261	3066.5 19	1.9	0	0	36.3	38.9	55.4	85.1	3.2	16.5 H	B?
536057.8	6895789	3052.4 19	0.8	0	16	12.1	21.4	20.3	52.2	1.3	6.7 I	B?
536226.3	6895339	3038.8 19	0.5	0	205	9.4	24.6	50.8	132.7	2.7	21 J	S?
538240.4	6890128	2884.7 19	0.8	2.1	0	9.6	15.9	27.5	42.6	3.1	8.2 K	B?
538482.5	6889463	2865.8 19	0.6	0	0	8.9	19.4	56.2	17.4	3.9	17.6 L	B
545038.4	6872613	2321.3 19	0.5	0	1	6.7	18	24.9	68.3	2.9	10.5 M	B?
545185.7	6872255	2311.4 19	0.6	0	0	9.4	20.2	22.4	79.6	2.5	10.4 N	B
546128.6	6869867	2243.3 19	0.5	0	0	5.8	13.7	37	70.3	2.1	11.2 O	B?
LINE 1	985											
547705.9	6865778	819.8 51	0.8	0	1	15.4	28.7	38.3	84.1	2.2	14.2 A	S?
547948.3	6865103	844.7 51	817.2	61.3	0	5.5	0	0	87.9	1.4	12.7 B	B?
548505.7	6863574	918.2 51	0.5	0	0	13.1	40.1	34.4	136.3	2	17.8 C	S
548622.1	6863291	931.9 51	0.4	0	0	5.8	15.5	14.2	48.7	1.8	7.1 D	B?
549031	6862339	977.7 51	0.7	0	0	18.4	42.8	31.9	102.6	1.5	14.5 E	B?
549216.4	6861900	1012.3 51	1.2	5	0	12.8	15.4	39.9	100.3	1.7	16.5 F	S?

550074.8	6859584	1184.2	51	0.5	0	9	11.9	34.4	47	161.5	1.7	23.5 G	S?
550929.2	6857464	1260.8	51	4.1	0	6	41.8	24.7	141	114.7	20.2	43.8 H	B
551094.3	6857013	1277.3	51	0.9	0	4	15.6	27.1	54.1	132.3	2.2	19.8 I	S?
551463.4	6856159	1309.4	51	0.6	0	1	16.1	41.7	36	119.7	1.1	17.5 J	S
551790.1	6855245	1340.9	51	1.4	7.3	3	13.4	14	33.8	51.9	2	10.2 K	S?
551919.1	6854969	1350.7	51	1.1	0	0	16.8	24.1	37.1	77.1	2.6	13 L	S
552623.2	6852955	1440.5	51	0.6	0	2	11.8	29.9	39.5	126.7	3.4	19.4 M	S?
553304.3	6851353	1559.6	51	0.8	4.9	1	9.3	14	23.1	53.9	2.7	8.8 N	B?
553340.3	6851259	1563.5	51	0.8	9.4	0	7.5	11	23.1	53.9	2.3	9.8 O	B?
554335.4	6848666	1703.5	51	0.6	0	2	10.6	27	6.8	28.5	0.5	2.1 P	S?
LINE 1	990												
532341.1	6906245	3546.4	19	0.8	11.6	0	9.1	14.8	69.1	122.7	4.3	24.1 A	B
532426.1	6906067	3550.8	19	1.3	12.3	0	14.2	16.5	24.8	32.7	3	4.6 B	B?
532560.6	6905790	3557.9	19	0.8	3.4	0	14.1	24.6	45.3	109.3	1.5	13.2 C	B
533303.4	6903973	3605.1	19	27.7	48.6	0	8.6	0.9	11.8	40.8	1.5	0 D	D
533475.6	6903552	3616.2	19	1.6	25.2	0	9.9	8.7	32.1	20.7	4	8.9 E	B
534050.2	6902050	3656.9	19	1	12.8	0	11.5	15.2	40.5	73.4	1.6	10.7 F	S?
534119.6	6901887	3661	19	0.5	10.4	0	6.1	12.8	12.2	41.2	1.6	6.8 G	S?
534200.6	6901682	3666.2	19	1.3	20.5	0	10.1	10.7	14.3	42.1	1.1	4.6 H	S?
536080.6	6896819	3792	19	2.1	16.4	49	17.2	13.7	11	47.7	11.7	4.7 I	B
536125.7	6896719	3794.6	19	1	14.5	0	10.4	13.8	115.6	141.5	11.7	36.4 J	B
536389.3	6896125	3810.3	19	0.2	2.1	0	2.8	10.9	16.2	37.5	2.9	5.7 K	D
536433.1	6896010	3813.3	19	0.6	8.5	247	8.5	16.2	16.4	41.4	2.2	6.7 L	B?
537387.5	6893523	3875.4	19	1.4	18.4	0	12.2	12.1	11.4	22.8	0	2.4 M	B?
537441	6893386	3878.7	19	0.5	6.5	0	6.2	14.5	30	50.4	3.4	9.5 N	B?
538883	6889758	3974.7	19	0.8	2.2	0	15.3	26.8	42.7	66.3	5.3	13.4 O	D
539996.6	6886869	4053.1	19	0.9	12.6	0	10.6	15	32	64.2	1.8	10.4 P	B?
540026.9	6886790	4055	19	0.5	0	0	7.8	20.5	32	64.2	1.8	10.4 Q	B?
540886.3	6884458	4110.3	19	0.4	0	1	5.7	19.8	32.3	50.6	1.8	9.2 R	S?
542955.4	6879026	4262.8	19	0.5	3.3	0	6.4	16.5	27	81.6	2.4	12.9 S	S?
546195.1	6870760	4515.8	19	0.6	5.4	0	7.7	16.8	40.5	78.8	2.1	14.2 T	B?
546233.1	6870660	4518.6	19	0.5	13	0	4.8	10.4	40.5	78.8	2.4	14.2 U	B?
546551.4	6869852	4540.8	19	0.4	1.2	0	4.9	15.4	29	46.7	2.5	0 V	S?
547294.8	6867750	4605.9	19	0.4	0	1	8.1	29.7	27.7	91.7	2.4	14.3 W	B?
547595.9	6867105	4624.4	19	0.3	7.4	0	2.5	8.7	9.4	28.8	1.4	3.5 X	S?
547993.6	6866007	4658.1	19	0.1	5.5	0	0.3	17.3	60.6	116.2	4.9	21.6 Y	B
551516.3	6857049	5080.2	19	0.3	0	0	5.9	22.5	52.6	120.3	1.7	19.1 Z	S

552186.6	6855440	5126.4	19	0.7	4.4	6	10	20	37.4	60.6	2.6	0 AA	S?
552331.6	6855185	5133.4	19	0.8	18.6	0	7.5	10.6	25.3	65.5	1	9.8 AB	S?
552677.3	6853941	5172.5	19	0.3	7.4	0	2.8	9.3	8.7	24.3	1.5	3 AC	B?
553133.5	6852837	5210.9	19	107	41.3	0	12.1	0.6	40.5	88	1.7	13.5 AD	B?
553271.1	6852520	5220.6	19	0.4	4	0	5.5	14.8	93	154.1	5.6	29.8 AE	B?
554239.6	6849976	5307.8	19	1.1	23.4	0	7.8	9	11.9	0	1.2	2.9 AF	B?
LINE 1	1000												
532593.6	6906970	7480.5	19	1	3.8	0	17	26.8	81.2	155.9	0.2	28 A	S?
532921.3	6906088	7454.5	19	0.9	7.5	0	13.5	20.9	36.5	71.9	1.7	13.1 B	D
533171.9	6905552	7438.3	19	0.6	4.8	0	9	19.2	33.6	43	3.1	10.1 C	D
533538.7	6904615	7408.8	19	0.5	16	16	5.4	10.5	16.5	0	1.4	2.7 D	B?
533591.2	6904490	7404.4	19	0.5	6.9	0	7.1	15.8	33.6	44.8	3.9	10 E	B?
533647.9	6904339	7399.3	19	3.4	16.9	7	22.7	13.2	34	43.2	2.8	9.7 F	B
533678.6	6904256	7396.6	19	1.6	14.6	0	15.8	15.5	34	69.1	2.8	9.7 G	B?
533833.9	6903855	7384.9	19	1	11.9	0	12	16.5	20.7	29	4	6.6 H	B?
536019.6	6898217	7209.4	19	0.4	0	11	7.8	23.4	13.3	43.6	2.1	5.9 I	S?
536391.1	6897137	7175.7	19	13.3	27	35	20.3	4.3	58.5	43.2	7.9	19.7 J	B
536442.8	6896990	7171.9	19	2.6	35.8	0	9.3	5.2	52.2	38.3	7.9	19.7 K	B
539275.2	6889694	6966.2	19	1.1	3.3	0	19.3	28.7	50.4	83.1	4.8	16.5 L	B
540690.9	6886088	6855.5	19	0.4	0	0	8.4	30.4	42.9	142.2	3.5	22 M	B
540946.2	6885355	6835.1	19	0.5	0.9	0	7.8	20.4	49.7	154.4	4.7	27.7 N	B?
540987.6	6885270	6832.5	19	0.8	1.7	0	15.9	28.8	81.1	158.3	5.1	27.7 O	D
541246.2	6884707	6816.5	19	0.9	0	0	22	39.9	49.9	81.2	2.4	16.1 P	S
541323.7	6884535	6811.6	19	0.9	1.9	0	17.4	29.7	0	0	2.2	0 Q	S
541415.4	6884236	6803.1	19	0.6	0	0	10.6	25.1	26.4	70.2	3.6	9.4 R	S?
541557.8	6883661	6783.6	19	0.4	0	0	10.1	37.9	45.7	186.9	4	25 S	S
541667.8	6883440	6769.6	19	0.2	0	1	2.3	15	7.6	0	1.4	2.7 T	B?
542050.7	6882524	6741	19	0.4	0	6	6.4	21.8	30.9	84.3	2.2	13.8 U	L
542102.7	6882435	6738	19	0.8	1.6	0	14.8	28.2	30.9	84.3	2.2	13.8 V	L?
542234.2	6882144	6728.9	19	0.5	0.9	1	7.2	19.5	0	38.3	1.8	5.5 W	S?
546166.8	6871946	6380.9	19	0.8	5.8	1	11.7	21.3	27.1	60.6	1.9	9 X	D
546297.3	6871663	6372	19	4.1	33.9	0	11.9	5.1	7.6	21	0.2	2.7 Y	B
546379.2	6871461	6365.6	19	0.5	0	0	12.2	33.5	52.4	136.1	3.6	22.4 Z	B?
546803.5	6870250	6327.3	19	0.3	0	0	5.1	17.2	47.4	112	6	18.3 AA	B?
547869.5	6867586	6228	19	1.3	21.6	0	10.2	10.5	16.1	23.9	2.4	2.7 AB	B?
547949.1	6867369	6222.1	19	0.5	4.9	1	6.5	16	26.3	51.2	3.4	8.4 AC	S?
548117.3	6866903	6209	19	0.4	2.4	0	6	16.7	19.7	88	0.4	10.7 AD	S?

548191.3	6866696	6202.8	19	0.4	0	1	6.3	19.8	37.6	141.7	0.7	1.7 AE	S?
549848.9	6862439	5989	19	0.2	0	1	2.5	17.8	22.9	42.9	3.1	5.6 AF	D
552451	6855626	5757	19	0.7	0	7	15.9	35.3	28.3	73.9	1.6	9.8 AG	S?
554033.6	6851605	5622.5	19	0.5	5.5	0	7.4	16.9	16.9	45.8	0.7	7.1 AH	S?
554132.9	6851377	5611.7	19	0.7	6.8	0	9.6	18.7	21.4	55.2	1.9	8.6 AI	D
554438.4	6850575	5582.1	19	0.6	0	0	12.4	28.4	49.5	117.3	5.3	22.1 AJ	B?
LINE 1	1010												
533085	6906913	7614	19	0.7	0	0	8.4	14.8	70.7	120.3	4.8	22.1 A	B?
533197.3	6906600	7621.1	19	0.8	0	0	8.9	14	32.7	63.2	1.6	11.8 B	B
533674.3	6905362	7650.2	19	1.2	0	0	24.7	37	99.5	153	3.2	29.1 C	D?
533962.1	6904654	7667.2	19	1.2	0	4	23.4	33.4	87.4	141.4	4	28.1 D	B?
534142.8	6904130	7679	19	1	0	0	12.8	18.4	41.4	73.7	5.6	11.1 E	D
534704.3	6902615	7717.8	19	0.4	0	0	3.6	9.5	21.2	42.1	4.2	7.1 F	B?
536702.1	6897334	7849.1	19	4.7	9.7	0	16.2	6.7	49.9	39.3	8.9	14.4 G	B
536744.6	6897210	7852.2	19	1.2	18	0	6	5.5	10.7	6.8	8.9	4.3 H	B?
537068.2	6896568	7869.3	19	0.2	0	0	2.3	10.7	8.7	20.9	3.5	2.7 I	D
540880.1	6886723	8112.2	19	0.2	0	0	2.2	9.1	13.8	29	0.5	4.8 J	B?
541313.4	6885590	8144.4	19	0.1	0	0	1.1	11.3	48.4	90.9	3.6	17 K	B?
541822.6	6884291	8177.9	19	0.8	2.5	0	6.6	9.9	16.5	30.7	2	4.4 L	S
543337.1	6880557	8293.6	19	1.1	0	1	12	14.8	40.7	39	4.3	11.4 M	B?
LINE 1	1011												
547252.3	6870285	539.3	20	0.2	0	0	3.4	18.6	44.5	78.7	5.1	16.5 A	B
548789.3	6866320	669	20	0.6	0	0	7.7	15.7	19.7	68.1	3.7	10.4 B	S?
549034.8	6865661	693.3	20	0.3	0	0	6.1	22.1	17.9	52.7	0	8.4 C	S
550515.8	6861863	836.8	20	0.6	0	0	9.4	23	28.9	70.1	1.4	9.8 D	S
552168.4	6857567	960	20	0.3	0	0	4.6	20.8	13.6	69.8	0.2	9.5 E	S?
552201	6857484	962	20	0.2	0	3	4.3	28.3	13.6	69.8	1.8	9.5 F	S?
552840.1	6855714	1020.7	20	0.3	0	0	7.9	46.5	27.5	152.9	0.8	20.4 G	S?
552954.9	6855409	1030.3	20	0.3	0	0	4.5	15.8	15.2	64	1.8	8.2 H	S
554100.9	6852647	1142.1	20	0.6	0	0	11	25.5	62.2	78.7	5.6	19.3 I	B
554666.4	6851114	1196.9	20	0.5	0	1	11.9	36.9	48.6	162	3.9	26.5 J	S?
LINE 1	1015												
545250.1	6875396	10837 1 48		0.7	4	0	13.2	26.3	41.8	118.4	1.7	17.2 A	B
545549.9	6874648	10809 5 48		0.1	26.4	0	0	10	22.5	71.2	0	11.7 B	B?
545940.2	6873654	10774 7 48		0.8	13.3	0	9.5	15.7	45.3	60	4.6	15 C	B
546031.4	6873419	10766 4 48		1.1	11.2	0	14.4	19.7	35.8	66.2	3.3	15 D	B
546254.4	6872871	10746 2 48		0.4	2.1	0	5.2	17	8	36.8	1.1	4.2 E	B?

LINE 1	1020												
533533.2	6906648	3316.2	20	1.5	0	2	19.7	21.9	56.2	89.4	5.2	16.8 A	D
533675.4	6906285	3305.4	20	0.4	0	1	12.2	46.2	76	213.6	5.8	33.1 B	B?
533853.9	6905839	3291.6	20	2	0	0	48.3	55	111.7	133.8	7.4	22.5 C	D
534058.9	6905309	3274.9	20	0.5	0	0	12.1	37.2	58	139.8	2	17.7 D	S?
534190.8	6905021	3265	20	0.1	0	0	2.5	35.2	64.5	92.3	5.1	18.7 E	B?
534227.3	6904942	3262.2	20	1.7	4.8	0	16.4	15.5	64.5	92.3	2.2	18.7 F	D
534763.6	6903566	3208.4	20	0.7	0	0	20.2	48.1	36.8	126.6	2.4	17.8 G	S?
535684.2	6901141	3131.4	20	0.5	5.3	0	4.5	9.6	19.9	40.9	2.6	8.3 H	B?
535729.7	6901043	3128.1	20	0.1	0	1	1.8	14.3	19.9	56.6	2.5	8.3 I	B?
536914.4	6898010	3031	20	0.5	2	16	5.8	12.2	4.9	23.1	0.5	0 J	D
536982.6	6897808	3023.3	20	0.2	0	0	2.9	13.9	0	24	0.3	0 K	B?
537037.6	6897635	3018	20	3.7	6.5	0	24.2	13.4	56.7	10.7	6.8	13.9 L	B?
537103.8	6897465	3013.2	20	5.8	12.7	0	21.3	8.1	0	28.7	6.8	13.9 M	D
537380.3	6896817	2994.5	20	0.3	0	266	5.4	25.5	29.9	86.3	3.8	12.6 N	S?
539279.7	6891913	2840.6	20	0.7	0	1	10.2	20	18.6	61.6	3.4	7.4 O	D
539597.1	6891053	2813.6	20	1.2	0	0	25.6	37.9	70.6	79.6	5.1	18.7 P	B
539778.6	6890537	2798.4	20	1	2.6	0	11.9	16.1	23	44.2	2.2	5.2 Q	B?
541827.9	6885386	2636.8	20	1.1	0	0	19.6	30.2	58	121.2	3.8	19.5 R	S?
542704.8	6883082	2522.4	20	0.4	0	0	8.8	27.5	36.9	139.8	3.4	19.3 S	S
542839.8	6882727	2511.7	20	0.4	0	0	5.1	16.1	22.1	90.6	1.1	11.8 T	S
545673.1	6875422	2214.8	20	0.3	0	0	3.7	11.3	0	0	1.2	0 U	B?
546478.8	6873385	2146.7	20	1	0	0	13.3	19.3	25.2	39.7	2.5	7.1 V	B?
547064.9	6871871	2099.7	20	0.5	0	0	10.1	25.9	0	0	0.7	0 W	D
547371.7	6871111	2074.1	20	0.6	0	0	13.3	35.5	48.3	155	2.2	23 X	B
547468.4	6870819	2063.7	20	0.5	0	1	10.7	30.9	35.4	95.9	2.3	14.6 Y	D
LINE 1	1026												
550968.3	6861781	2291.1	51	0.2	0	3	4.8	26.5	19.1	80.1	1	11.3 A	S?
554263.6	6853251	2001.3	51	154.9	30.6	0	13.6	0.5	81.5	107.2	7.9	25.8 B	B
554472.7	6852781	1984	51	1.7	3.7	0	18.4	17.5	61.7	93.5	3.6	18.8 C	B
LINE 1	1030												
533928.4	6906835	3437.8	20	1.5	0	1	15.1	15.2	59.2	84.3	0	17 A	D
534020.8	6906571	3443.9	20	0.5	0	0	7.5	18	58.2	129.3	3.3	17.4 B	B?
534088.9	6906385	3448.2	20	32.7	0	0	21.6	2.5	0	0	2.1	0 C	B?
534244	6906013	3456.8	20	0.7	0	0	13.2	27.6	36.8	33.9	4	9.5 D	B
534417.4	6905567	3467.2	20	2.2	0	0	36.8	34.8	88.4	94.7	0	0 E	D
534752.1	6904665	3487.9	20	999	1.5	0	15.1	0	45.5	0	0	1.2 F	D

535818.7	6901960	3552.2	20	0.9	0	2	9.6	14.4	33.3	42	1	4.8 G	S?
537186.9	6898427	3642.7	20	0.4	0	16	6.2	18.4	12.8	17.9	0.4	2 H	S?
537392.9	6897873	3656.7	20	8.7	0	0	21	6	55.2	65.6	5.1	17.6 I	D
537442.4	6897722	3660.5	20	1.6	0	0	13.7	12.8	55.2	44.2	5.1	17.6 J	D
537606.4	6897292	3672.3	20	0.9	0	138	11	15.8	85.8	110.7	4.7	21.5 K	B?
537693.9	6897083	3678.5	20	0.1	5.1	0	0.2	1	2.3	5.2	0.2	1.3 L	B?
538380.8	6895383	3722.9	20	1	0	1	8.3	10.4	29.3	31.5	3.9	2.7 M	B?
539826.2	6891600	3812.5	20	1.2	0	0	13.9	16.8	39	36.2	3.6	10 N	B?
542096.9	6885776	3951.7	20	1.2	0	0	16.6	21	19.7	35.9	1.8	1.3 O	B?
545504.3	6876959	4233.3	20	0.5	0	0	5.8	13.1	23.2	65.1	0.8	9.9 P	S
546119.8	6875467	4273.2	20	1	0	0	20.3	34.4	61.1	93.2	4.8	19.2 Q	B
546171.5	6875293	4277.4	20	0.2	0	0	5.7	31.7	2.3	123.4	6.9	23.9 R	B
547469.6	6871895	4364.1	20	0.5	0	0	7.4	18.2	10.7	37.7	1.7	6.5 S	D
549503	6866608	4520.1	20	0.5	0	0	13.9	45.1	56.7	147.6	6.3	23.7 T	B?
549650.1	6866276	4531.9	20	0.1	0	0	0	18	40.8	155.2	3.6	23 U	B?
553450.8	6856519	4889	20	0.2	0	0	3	22.5	38.8	156.5	3	22.2 V	S
LINE 1	1040												
534295.6	6906987	6996	20	1.2	12.2	0	20.6	28	56.5	34.1	0.2	19.2 A	D
534678.2	6906016	6967.1	20	4.4	10.2	0	58.3	35.1	93.6	111.5	8.8	24.3 B	D
534841.7	6905673	6956.3	20	1.5	5.3	11	37.2	49.7	97.6	204	2.4	34.6 C	D
534970.2	6905323	6944.6	20	0.9	8.9	0	17.7	31.3	67.6	173.8	3.6	29 D	B
535066.9	6905043	6935.9	20	0.7	0	0	22.1	54.1	77.4	205.7	3.9	32.2 E	B?
535104.5	6904939	6932.8	20	999	28.6	0	36.1	0	0	0	0.3	0 F	B
535183.1	6904735	6926.7	20	0.6	11	1	9	20.4	14.8	34.4	1.5	6.8 G	B?
535303.8	6904449	6917	20	0.2	0	2	3.6	21.2	65.9	169.2	5.5	26.8 H	B?
536023.9	6902544	6859.2	20	0.5	8.2	0	8.8	22.3	36.1	74.1	2.4	12.6 I	S?
537753.3	6898109	6725.9	20	1.1	10.9	0	20.8	30.1	68.2	90.4	5.7	21.1 J	B?
537906.6	6897692	6714.7	20	1.1	13.2	155	17.1	25.1	79.5	111.2	7.9	24.7 K	B?
539096.3	6894680	6626	20	0.7	8.5	0	13	27.1	33.3	34.1	2.1	14.6 L	B?
539970.8	6892331	6562	20	0.8	4.6	0	18.7	38.5	61.7	154.8	5.5	26.1 M	B?
540143.9	6891886	6550.4	20	1	7.8	0	22.3	36.2	55	120.6	4.1	20.1 N	B?
540306.3	6891500	6539.8	20	1.5	17.4	0	19.7	21.2	45.2	71.9	5.8	14.1 O	B?
542361.6	6886204	6379.5	20	0.7	10.4	0	11	23.2	12	36.3	3.9	5.7 P	B?
542773.8	6885127	6349.2	20	0.9	14.4	0	13.1	21.6	11.3	34.1	0.2	5.6 Q	B?
542846	6884894	6342	20	1.2	11.2	0	21.8	30	0	1	0.3	0 R	D
544033.5	6882008	6246.2	20	0.9	19	0	10.7	16.6	25.5	82.9	2.4	12.2 S	S
544174.3	6881663	6236.2	20	1.1	19.7	0	13.6	17.3	59.9	64.5	4.1	19.6 T	B

544219.3	6881537	6232.7	20	0.2	0	4	4	22.7	59.9	31.9	4.5	19.6 U	B
LINE 1	1046												
549985.8	6866592	7916.3	53	0.5	0	0	9.9	30	42.6	110.9	3.4	19.9 A	S?
551385.1	6862958	8071.5	53	0.3	0	0	4.7	19.2	23.3	65.7	2.4	9.8 B	S
553586.4	6857310	8344.8	53	0.6	0	3	12.8	32.5	66.2	167.1	1.6	26 C	S?
LINE 1	1050												
534994.9	6906346	7117.9	20	2.5	0	0	36.2	30.8	46.9	61.9	5.2	16.9 A	D
535305.7	6905579	7136.9	20	1.3	5.4	0	9.7	9.5	24.1	14.9	5.2	6.8 B	B
536530.3	6902422	7207.1	20	0.5	0	0	6.4	15.9	14.4	46.5	1.6	6.5 C	S
538124.2	6898314	7308.9	20	3.8	23.8	0	8.6	3.6	39.3	51.2	4.3	1.2 D	B
538211.9	6898070	7314.8	20	1.3	0	0	22.1	28.2	43.7	78.3	4.1	16.9 E	B?
541073.4	6890783	7483.1	20	1.1	0	1	23.2	36.5	82.6	162.9	4.8	29.4 F	B?
542225.6	6887564	7556.7	20	10.2	29.3	1	8.7	1.8	99	152.2	13.6	32.7 G	B?
546468.9	6876879	7854.2	20	0.6	0	0	11.1	25	0	55.9	2.6	7.4 H	D
546543.9	6876648	7862.2	20	0.1	0	0	1.5	20.7	26	100.8	0.4	13.8 I	B?
546902.1	6875550	7904.1	20	0.3	0	0	7.6	31.8	28	94.2	2.5	13.9 J	B?
547798.5	6873320	7958.8	20	0.6	0	1	8.3	19.1	37.1	88.5	2.9	13.3 K	D
549272.5	6869700	8056.1	20	0.6	0	2	11.7	31.1	0	52.9	2.2	0.9 L	B?
549911.9	6867838	8113.9	20	0.3	0	0	2.9	11.6	11.3	38.5	2.2	5 M	S?
550276.7	6866896	8143.4	20	0.5	0	1	9.9	26.5	24.9	74.9	4.2	11.8 N	B?
550564.8	6866110	8164	20	0.8	0	1	10.4	16	36.4	47.1	3.9	11 O	B?
550703.7	6865727	8173.7	20	0.1	6.1	0	0	22.1	45.5	92.3	5	17.3 P	S?
552263.9	6861868	8298.2	20	1	0	0	13.3	19.8	39.5	56.6	2.9	10 Q	S
552853.9	6860336	8346.2	20	0.9	0	1	9.4	13.8	2.9	50.6	0.8	6.9 R	S
553562.6	6858552	8424.3	20	0.4	0	0	4	11.9	9.4	48.2	0	5.7 S	S?
553733.1	6858097	8443.9	20	0.2	0	0	3.4	19.6	24.3	71.7	0.7	12.2 T	S
554028	6857307	8466.6	20	0.3	0	0	7	31.4	33.9	140.8	2.5	18.5 U	S
LINE 1	1061												
549124.1	6870938	591.1	21	0.4	0	0	10	35.9	40.7	137.5	2.2	21.4 A	S?
550593.1	6867263	703.7	21	0.3	0.1	0	4.8	18	51.4	89.9	5	19.3 B	S
550676.9	6867033	711	21	0.4	9.2	0	4.3	12.1	18.8	60.9	2.7	8.2 C	S
551588.6	6864671	782.2	21	0.1	0	0	1	18.3	36.9	94.9	1.2	15.7 D	S
553820.6	6858864	976.8	21	0.1	0	0	1.9	19.6	16.2	108.9	1.9	14.9 E	S
LINE 1	1065												
535236.8	6906711	9424.6	48	1	0	0	16.3	24.2	36.8	84.1	2.8	14.7 A	B?
535549.1	6906107	9444.5	48	3.4	0	0	19.1	10.7	19.8	23.1	0.6	7.2 B	B?
535817.7	6905291	9466.7	48	2.6	0	0	20.6	14.5	75.7	48.2	11.7	22 C	B

538187.7	6899190	9643.3	48	0.2	0	0	3.3	21.2	21.5	16.5	0.6	3.1 D	S?
538573.3	6898192	9673.7	48	0.4	0	201	5	13.7	0	45	4.6	8.2 E	S?
539143.1	6896915	9710.3	48	0.8	0	0	13.9	26.6	8.8	74.8	0.1	15.5 F	S?
539727.6	6895301	9757.8	48	0.8	0	1	12.8	22.2	36.8	82.7	0.7	11.2 G	B?
540669.6	6892773	9832.3	48	0.4	0	1	5.7	19.9	14.8	48.4	1.9	7.2 H	B?
542721.1	6887517	9994.6	48	1.5	0	1	17	17.5	39.6	99.1	2.3	17.7 I	B?
548151.5	6873515	10479 2 48		8.7	9.1	0	14.1	3.7	69.2	108.3	5.6	23.6 J	S?
548326.8	6873094	10492 0 48		0.6	0	1	10.5	25	28.4	68.9	1	12.7 K	B?
548422.6	6872827	10499 5 48		1.4	0	1	23.1	29.3	45.3	99.5	2.9	20.6 L	D
LINE 1	1070												
544053.9	6885166	2140.2	21	0.3	0	0	5.7	23.4	13.3	12.9	2.1	3.1 A	B?
544261.4	6884657	2126.4	21	0.3	0	0	4.1	16.2	10.3	54.3	1.2	5.8 B	D
547193.1	6876992	1861.7	21	0.2	0	0	3.4	15	13.8	55.4	0.9	7.5 C	S
547358.4	6876546	1841.4	21	0.5	0	0	8.6	23.3	34.2	92.1	1.5	14 D	S?
548622.7	6873340	1742.9	21	0.5	0	0	9.6	28	16.5	83.4	1.3	11.7 E	D
548731.8	6873056	1732.3	21	0.5	0	0	13.4	40.1	34	154.4	2.4	21.4 F	S?
548844.8	6872735	1722.7	21	0.8	0	0	22	47.5	24.8	85.5	2.4	13.6 G	S?
551006.3	6867356	1548.1	21	1	6.1	0	11	14.4	28.2	58.2	4.6	16.7 H	D
551425.9	6866265	1517	21	0.8	0	0	11.9	19.9	31.1	79.4	2.7	13.9 I	S
551736.1	6865516	1491.8	21	0.5	0	1	9.5	27.7	6	45.9	1.5	6.9 J	S?
551915.7	6864995	1476.4	21	0.1	0	0	1.7	10.8	7	34.6	1	4.6 K	S?
552117.6	6864386	1456.1	21	0.2	0	1	1.8	10	14	35.1	0.5	5.5 L	B?
552957.7	6862220	1385.3	21	0.3	0	1	6.3	29.3	30.1	113.5	1.4	16.8 M	S?
553263.1	6861411	1361.6	21	0.6	18.2	0	4.3	6.9	18.4	100	0.5	14.1 N	S
554468	6858347	1232.9	21	0.3	0	2	4.3	19.5	18.4	66.6	0.8	9.1 O	S?
LINE 1	1071												
535938.3	6906056	696.9	22	0.1	18.8	0	0	14.3	2.4	47.6	1.1	5 A	B
536127.7	6905638	685.2	22	0.6	4.9	0	7.3	14.5	59	89.3	7.5	18.5 B	B?
536650.9	6904194	647.1	22	0.5	0	0	5.9	15	25.5	41.4	1.1	7.7 C	B?
537952.8	6900825	558.8	22	0.1	0	0	2.5	17.7	17.4	69	0	9.2 D	S?
538814.6	6898662	501.7	22	0.1	18.8	0	0	33.2	33.3	79.5	0	16.6 E	B?
538837.9	6898593	499.8	22	215	363.4	234	0	0	0	146.5	0	0 F	M
538855.2	6898544	498.4	22	0.6	0	234	14.5	40.7	0	146.5	0.1	0 G	B?
540765.2	6893682	367.2	22	0.7	3.6	0	8.6	16.3	18.7	26.1	0.9	5.2 H	D
541324.9	6892282	328.1	22	947.6	50.1	0	8.6	0	34.6	84.8	0	0 I	B
541387.9	6892142	324.1	22	0.4	0	0	6.6	19.4	34.6	84.8	2.4	14.9 J	B
541549.9	6891659	310.5	22	1.1	0	0	22.1	34.8	77.1	120.5	4	26.2 K	B

LINE 1	1076												
542794.6	6888426	7082.1	53	0.8	0	0	13.7	24.4	49.6	100.6	4.4	18.3 A	B
542957.5	6888029	7096.8	53	0.5	0	0	8.8	22	30.3	97.8	4.2	14.7 B	B?
543081.4	6887675	7109.4	53	0.4	0	0	8.7	28.7	33.6	121.8	0	15.4 C	B
LINE 1	1080												
536442.9	6905958	920.3	22	1	6.2	0	10.3	13.3	31.7	49.2	5.8	13.6 A	B?
536622.8	6905498	931.7	22	1.1	0	0	13.9	18.9	34.7	57.1	1.4	1.6 B	B?
537488.5	6903273	987.1	22	1.2	0	4	17.2	22.6	51.5	44.8	2	11.7 C	B?
537693.7	6902712	1002.2	22	0.8	0	0	11.4	18.6	5.7	0	4.3	3.6 D	B?
539066.9	6899233	1090.1	22	1.7	15	0	10.8	9.1	75.5	76.2	9.1	23.4 E	B
539153.3	6898991	1096.3	22	2.4	9.3	0	17.1	12.1	77.4	110.4	1.4	1.9 F	B?
539904.8	6897056	1146.4	22	0.4	0	1	4.7	12.4	21.2	44.5	0.8	7.3 G	B?
540244.1	6896197	1167.9	22	0.7	17.3	0	4.7	7	8.2	22.9	0.8	2.5 H	B?
541947.8	6891817	1287.4	22	1.5	11.5	0	11.4	10.7	28.6	8.7	3.3	6.7 I	B?
543204	6888536	1373	22	1.1	16.4	0	7.3	8.1	9.3	0.1	2.2	1.6 J	B?
543885.2	6886719	1422.1	22	0.4	0	0	9.1	31	66.5	145.6	4.8	23.6 K	S?
544524.2	6885157	1462.8	22	0.9	0	1	12.2	18.5	55.5	56.6	5.6	16.3 L	B?
544572.7	6885048	1465.6	22	1.2	0	0	17.7	23.9	55.5	56.6	5.6	16.3 M	B?
544941.1	6884037	1492.4	22	0.3	0	0	4	14.9	15.9	52.9	1.4	8.3 N	S
547973.3	6876160	1765.9	22	0.9	0	0	13.7	22.5	16.4	73.9	1.7	10.2 O	S?
548055.5	6875959	1772.3	22	0.7	0	0	15	32.8	20.9	76.9	1.6	12.5 P	S?
548479.3	6874905	1802.9	22	0.4	0	0	7.6	26.5	22	144.1	1.5	16.5 Q	B?
549107	6873284	1852.8	22	0.3	0	0	2.9	8.9	5.7	0.1	0.1	1.5 R	B?
549337.1	6872717	1868.6	22	0.7	6.2	0	7	11.6	5.7	0	1.9	1.6 S	B?
550495.7	6869633	1958.8	22	0.5	3.5	0	4.4	10	17.3	26.1	1.1	4.3 T	B?
552293.6	6865049	2100.9	22	0.2	0	0	3	16.2	25.5	49.2	2.8	9.2 U	D
553200.2	6862674	2181.2	22	0.5	0	2	9.3	28	0	0	0.2	0.6 V	S?
553490.6	6861894	2206	22	0.8	10.8	0	6.8	9.8	5.7	36.2	0.8	6.6 W	B?
LINE 1	1090												
537846.9	6903433	906.7	23	1	30.2	6	8.4	10.4	21.4	19	1.2	5.7 A	S?
538052.3	6902907	893.5	23	0.7	25.5	13	6.8	11.4	24.4	50.5	2.8	8.7 B	S?
539407.6	6899409	801.9	23	1.7	31.1	0	12.5	10.6	80.7	93.8	7.8	25 C	B
539478.8	6899232	796.7	23	1.1	10	0	22.2	34.5	0	0	0	0 D	D
542343.1	6891808	597.4	23	1.3	12.3	0	23.8	31.2	47.4	90.1	2.3	16.2 E	B
542473.1	6891467	588.4	23	0.9	14.1	0	15.5	24.7	50.3	77.5	4.5	16.8 F	D
543357.8	6889147	523.8	23	0.3	14.2	0	3.7	11.9	22.7	55.2	0.5	10 G	B
543476.7	6888822	514.4	23	1	22.5	1	11.4	15.4	4	33.3	0.4	0 H	B?

544149.3	6887200	459.4	23	0.5	14.6	0	6.7	16.1	37.2	156.7	2.1	20.4 I	B?
544659.6	6885878	421.4	23	0.8	15.7	0	12.7	21.4	52.1	77	5.3	19.5 J	B
544873.1	6885338	405.4	23	0.7	14.8	0	10.9	20.9	6	23.9	1.4	3.6 K	B?
545044.8	6884897	392.2	23	1.6	25.2	0	14.7	14.4	3.7	0	0.5	0 L	B?
546430.1	6881301	272.9	23	0.2	0.8	0	4.6	23.1	24.5	80.9	0.9	13.2 M	S?
LINE 1	1091												
546512.8	6881034	209	24	0.2	0	0	2.3	15.3	17.5	57.9	2.8	8.4 A	S?
548614.5	6875701	480.7	24	999	28	0	10.8	0	51.2	93.5	2.9	16.9 B	S
549761.9	6872766	582.8	24	1.1	0	0	21.3	32	43.1	75.1	3.2	15.5 C	D
551562.7	6867977	746.6	24	0.8	0	0	13.5	25.7	35.5	74.6	4.9	13.8 D	S?
554344.1	6860879	1024.4	24	0.3	0	0	4.5	19.2	15.5	63.1	0.7	8.2 E	B?
LINE 1	1100												
539690.9	6899789	1313.8	23	0.4	0	0	5.3	13.1	48.8	52.6	0	16.7 A	B
539814	6899432	1323.3	23	1.9	10.3	0	15.1	12.8	0.3	68.6	1	5.4 B	B?
540487.9	6897755	1370.5	23	1.2	9.1	0	11.6	13.1	11.2	54.3	0.1	14.6 C	B?
542445.9	6892636	1508.5	23	0.5	0	0	7.9	18.5	39.9	74.6	1.6	14.7 D	B?
542578.9	6892313	1517.8	23	0.6	9.5	0	5.2	9.9	25	33.6	5.5	10.5 E	B?
542740.7	6891939	1529.2	23	0.5	0	0	8.9	26.3	38.3	85.5	2.8	14 F	B
544320.4	6887803	1640.9	23	0.7	15.8	1	5.2	8.1	18.8	71.4	0.9	10.2 G	B?
544477.4	6887413	1654.8	23	0.6	2.5	0	8	15	28	80.7	1.7	10 H	B?
545340.1	6885209	1715.4	23	2.4	12.7	0	15.8	11.1	42.2	66.7	1.3	10.7 I	B
548846.6	6876221	2019.1	23	999	24.4	0	20.4	0	66.7	111.9	0	21.3 J	S?
549036.3	6875743	2034.9	23	959	46.5	0	8.9	0	49.1	121.5	2.7	19.6 K	B?
549080.8	6875639	2038.6	23	0.5	0	1	9.8	25.8	49.1	121.5	3.2	19.6 L	B?
549217.4	6875336	2048.6	23	0.8	6.3	1	8.9	13.5	5.8	21	1	1.9 M	B?
549628.9	6874235	2085.4	23	0.5	0	0	9.4	28.2	17.7	118.6	2	18.4 N	B?
551067.3	6870477	2201.6	23	0.2	0	0	3.1	21.5	24.6	69.2	0.9	10.8 O	D
551171.5	6870196	2213.4	23	0.9	0	0	15.3	24.4	26.4	66.1	1.8	8.7 P	D
551316.8	6869905	2224.4	23	0.6	0	0	9.1	21.9	27.2	82.7	0.9	11.2 Q	D
552248.4	6867485	2304	23	0.6	0	0	12.5	32	45.2	86	0	18.3 R	B
LINE 1	1110												
539899.3	6900323	3800.9	23	0.6	3.7	3	8	16.1	26.3	65	1.8	9.4 A	S?
540054.1	6899939	3788.6	23	1.3	14.5	0	11.4	12	53.5	105.7	6.5	19 B	B
540140.1	6899713	3782.3	23	999	30.5	0	18.4	0	0	0	0	0 C	B?
540307.1	6899273	3771.5	23	1.2	17.5	0	9.4	10.2	12	27.6	2.2	3.6 D	B?
540756.6	6898189	3743.4	23	0.5	0	1	6.9	16.9	0	45.7	0.5	6.3 E	S?
540864.6	6897849	3734.6	23	0.4	0	0	5.1	15.7	49.2	74.1	5.7	16.4 F	B?

540978.9	6897393	3722.1	23	0.9	20.6	0	6.8	8.4	27.8	23	3.7	7.9	G	B
545232.2	6886533	3429.6	23	0.6	4.5	0	7.3	15	39.5	68	2.3	12.4	H	B
545314.1	6886349	3424.4	23	0.5	0	0	9.4	23.5	97.5	175.1	4	32.3	I	B?
545485.5	6885950	3413.6	23	0.6	0	0	8.2	18.8	29.6	80.2	1.5	13	J	B?
549364.8	6875900	3105.6	23	0.5	7	0	5.9	12.5	2.7	0.3	0.7	0.3	K	S
549543.4	6875489	3083.6	23	1.4	5.1	0	17.8	20.6	47.4	89.2	3	16.6	L	D
550363.3	6873462	3018.2	23	0.9	11.2	0	9.5	13.2	59.3	129	3.9	23.6	M	B
551057.9	6871615	2968.2	23	0.6	7	0	7.7	14.3	23.8	58.6	1.9	9.3	N	B?
551631.5	6870121	2918.2	23	1.3	13.9	0	11.4	12.4	10.5	26.2	0.7	4.3	O	D?
552125.1	6868809	2883.8	23	0.4	0	0	5.3	14.7	24.2	34.9	1	8.5	P	B?
552505.6	6867814	2853.8	23	0.6	0	1	11.6	26.3	72.8	155.9	5.7	27.3	Q	B?
553579.3	6865106	2767.8	23	0.4	0	0	6.4	19.5	12.7	31	2.7	5.8	R	B?
LINE 1	1120													
540393.9	6900208	4320	23	1.5	27.7	0	9	7.8	43.3	58.6	4.4	14.3	A	B
540492.8	6899959	4325.9	23	1.7	13.3	0	17.4	16.5	27.7	35.5	0	10.3	B	B?
540655.4	6899528	4336.3	23	0.3	0.4	0	4.2	14.7	16.6	56.9	2.6	6.8	C	S?
543383.6	6892527	4534	23	1.2	15.4	0	11.9	13.9	8.3	15	0.5	2.8	D	B
545831	6886156	4712.3	23	0.9	23.2	0	7.2	9	59.1	82.8	5.7	19.8	E	B
550007.9	6875385	5024	23	0.7	0	2	13.8	28.7	58.9	146.8	2	23.1	F	B?
550042.3	6875307	5026.2	23	0.5	0	0	11.3	33.9	0	0	2	0	G	B?
552611.8	6868648	5229.1	23	1.6	7.7	0	21.3	23	42.5	93.6	6.4	18.7	H	D
552682	6868487	5233.9	23	0.9	1.3	0	17.4	29.9	0	93.6	5.2	18.7	I	B?
LINE 1	1130													
540006.8	6902096	6682.1	23	0.2	0	4	2.6	10.1	9.5	29.6	2.1	4.6	A	B?
540669.8	6900504	6638.6	23	0.9	6.7	3	11	16.6	45.3	62.7	6.4	13.1	B	B
540747.3	6900271	6633	23	1.8	5.8	0	21.2	20.4	44.5	51.8	0	14.2	C	B
542470.8	6895979	6514.6	23	1	4.2	0	14.2	20.1	31.3	98.7	1.1	12.7	D	S?
544608.2	6890219	6352.9	23	0.5	0	0	8.6	21.7	0	0	0	0	E	B?
544693.3	6890035	6345	23	0.2	0	0	4.4	21.7	48.1	155.8	3.6	24.1	F	S?
544813.3	6889819	6334	23	0.3	0	1	5.4	19.8	42.4	97.7	1.8	14.3	G	S?
546789.6	6884692	6190.8	23	0.7	0	0	13.7	27.1	0	38.6	3	7.4	H	D
547154.6	6883798	6160.1	23	0.4	4.1	0	4.1	11.1	2.7	12.6	0.6	1.5	I	B?
550396.1	6875520	5872.9	23	1.4	7.4	0	16.6	18	51.1	96.5	3.7	17	J	

539835	6903829	7038.7	23	1	0	0	16.6	24.4	47.4	84.8	4.4	16.7 A	B
540339.9	6902515	7073.8	23	0.5	0	0	9	23.4	6.6	51.4	1.2	5.9 B	S
541017.8	6900707	7120.6	23	1	2.8	0	10.4	13.9	41.6	56.9	4.7	13.6 C	B
541063	6900580	7123.9	23	0.9	18.8	0	5.2	6.4	45.1	51.1	5.8	12.6 D	B
544115.4	6892697	7331.2	23	1.1	0	0	17.6	24.4	25.8	31.4	0	7.1 E	D
545458.4	6889313	7423.1	23	0.4	0	1	6.2	17	27.2	53.3	5.7	10.8 F	B
545565.4	6889081	7429.3	23	0.8	0	0	20.2	42	57.7	124.7	3.8	20.9 G	B
546351.7	6886992	7481.7	23	2.2	0	0	25.9	22	32.4	43.9	4.3	0 H	D
547217.7	6884776	7538	23	1.1	5.1	0	10.2	12.5	11.2	15.6	0.6	1.4 I	D
549742.3	6878287	7750.8	23	0.2	0	0	3.2	17	17.8	81.2	1.5	8.4 J	S?
550745.3	6875613	7860.7	23	1	0	2	16.2	25.3	50.7	100.1	3.6	18.5 K	S?
550858.1	6875369	7868.2	23	0.6	3.5	0	6.4	11.4	11.2	15.6	1.6	1.4 L	D
551630.4	6873503	7919.8	23	1.7	3.3	0	15.9	14.8	50.4	118.3	4.2	19.9 M	B
553100.8	6869620	8035.9	23	0.5	0	2	6.5	16.6	53.2	126.9	2.7	20.2 N	S?
553827.9	6867941	8087.4	23	0.9	0	0	15.9	26.7	39.6	79	2.1	14.7 O	D
LINE 1	1150												
540118.3	6904230	9356.4	23	1.4	6.9	0	13.3	14.2	31.4	43.5	2.4	10 A	B
541410.7	6900934	9271.3	23	0.9	3.6	0	10.3	15.3	35.9	32	0.1	11.5 B	B
549445.6	6880080	8702.1	23	0.1	15.4	1	0	8	33.7	109.9	1.7	16.9 C	S?
551283.9	6875453	8530.6	23	0.5	0	0	6	14.8	15.7	33.3	2	0 D	B?
551470.5	6874950	8517.4	23	0.7	13.8	0	5.2	8.3	23.8	35.6	2.2	7.7 E	B?
552714.2	6871808	8434.8	23	0.5	0	0	7.4	16.8	34.7	88.4	3.6	14.5 F	B
553092.7	6870822	8407.1	23	0.8	0	1	13	21.7	46.7	133.2	2.3	20.6 G	B?
553875.4	6868786	8340	23	0.9	0	0	13.8	22.2	23.8	44.6	1.4	7.7 H	S
554211.4	6867916	8316.5	23	0.3	0	0	4.7	18.1	0	0	0.9	0 I	B?
554317	6867617	8308.5	23	0.6	0	0	10.6	22.5	39.4	52.5	3.6	13 J	B
LINE 1	1160												
541837.4	6900989	9707.7	23	0.1	5.4	0	0.4	12.5	18.7	33.5	1.8	6.4 A	S?
542022.8	6900539	9719.4	23	0.7	12.5	0	8.3	15.3	16.6	26.2	1.6	5.4 B	B?
542467.6	6899405	9746.6	23	0.5	2.5	1	7.4	20.1	30.8	67.4	0	11.3 C	S?
545877.7	6890520	9970.5	23	0.1	5.4	0	0.4	19.2	54.9	111.2	4	18.8 D	S?
546407.5	6889232	10009 6 23		0.6	9.7	1	7.5	15.8	32.1	76.4	2	12.6 E	D
549619	6880893	10257 7 23		0.4	13.2	0	4.3	10.6	18.7	24.5	1.4	5.9 F	B?
551390.6	6876192	10411 1 23		0.2	4.4	0	2.4	10.2	21	38.9	1.9	6.2 G	B?
551430.2	6876082	10414 7 23		0.7	20.1	0	6.7	10.6	21	38.9	2.7	6.2 H	D
551686.8	6875511	10436 2 23		1.2	5.1	0	21	29.8	82.7	154.1	4.6	27.3 I	B
552143.5	6874355	10471 7 23		0.8	5.9	0	13.8	24.7	67	133.7	4.3	24.5 J	B

554098.1	6869283	10631 5 23	0.1	26.4	0	0	22.5	22.8	57.4	2.1	9.3 K	D
554322.2	6868716	10654 2 23	0.8	24.6	0	6.5	9	18.7	32.7	0.4	6.1 L	B?
554421.9	6868457	10662 6 23	0.5	12.6	0	6.3	13.1	30.2	57.1	1.7	11.2 M	B?
554548.1	6868176	10671 4 23	0.7	8.5	1	10.4	19.6	18.7	21.1	3.5	2.7 N	B?
LINE 1	1170											
540864.8	6904538	2344.5 24	0.6	0	0	8.6	16.9	25.8	46.5	2.9	9.5 A	B
544674.1	6894725	2076.5 24	0.6	0	1	9.3	21.7	39.2	103.5	2	15.5 B	B?
545259.5	6893197	2034.6 24	0.5	0	0	5.5	12.9	14.2	51.2	2	5.7 C	B?
546221.4	6890616	1963.3 24	1	0	0	14.5	21.9	37.3	85.4	5.1	14.6 D	S?
547111.3	6888417	1896.9 24	0.7	0	0	8.5	16	44.3	68.9	5.2	16.1 E	B?
547203.2	6888156	1889.9 24	0.7	0	0	8.3	14.8	0	0	0	0 F	B?
547547.4	6887284	1865.8 24	0.5	0	0	6.9	15	31.2	56.7	6.4	11.1 G	B
549346.6	6882713	1734.2 24	0.8	0	0	8.6	13.2	15.7	53.7	1.3	7.7 H	S
552778.7	6873866	1471.4 24	0.6	0	1	9.6	19.7	41.5	116.3	2.9	18.4 I	B?
554768.4	6868723	1326.5 24	1	0	0	7.3	8.9	20.1	32.2	1.7	0 J	B?
LINE 1	1180											
542382.1	6901748	2717.9 24	3.7	0	96	9.5	4.1	23.2	12.5	0.1	7.3 A	B?
542577.4	6901221	2731.9 24	1	0	1	10	13.3	10.6	26.5	0.7	3.2 B	B?
542901.9	6900449	2753.1 24	0.8	0	1	10.5	17.7	0	17.8	0	8.6 C	B?
544695.1	6895790	2872.7 24	1.1	0	0	13.9	18.3	31.5	67.8	2.9	0.2 D	B?
547887.5	6887592	3102.5 24	0.7	0	1	13.1	27.3	38.6	61.9	2.3	12 E	B?
547928.8	6887485	3105.6 24	1.2	0	0	19.4	25.8	38.6	61.9	2.8	12 F	B?
548841.1	6885113	3182.3 24	0.2	0	0	2.4	16.5	0.1	66.2	2.5	9.5 G	B?
551170.6	6879091	3383.7 24	0.8	0	0	7.2	10.6	13	26	2.9	3.5 H	S
552452.7	6875718	3490.9 24	1.1	0	0	22.9	34.3	49	61.2	3.3	0 I	D
552517	6875566	3495.8 24	0.5	0	0	7.5	17.4	0	0	3.9	14.2 J	B?
552812.4	6874860	3518.9 24	0.6	0	0	7.3	14.3	44	64.1	3.9	13.3 K	B?
553132.6	6873978	3545.7 24	0.6	0	0	8.9	18.7	0	0	4.1	0 L	B?
553924.4	6872017	3611.2 24	0.7	0	0	16.7	38.4	32	108.1	3.2	13.2 M	B?
554611.8	6870216	3673.7 24	0.8	0	2	11.2	20.2	35.1	114.5	2.1	18.2 N	S?
LINE 1	1190											
539548.5	6910150	4858.3 24	1.5	0	0	30.5	38.8	72.5	98	10.6	30.8 A	D
539650.2	6909888	4851.4 24	999	19.1	0	20.1	0	59.2	79.6	0	20.1 B	B?
539883.6	6909266	4835.8 24	1.1	0.5	0	11.9	14.9	34.4	68.3	3	11 C	B?
541527.8	6904987	4727.3 24	1	3	0	9.8	12.7	0	48.8	3.4	10 D	B
541611.6	6904742	4721.3 24	0.5	0	0	8.7	21.8	57.6	113	4.7	20.9 E	B
542693.2	6902024	4651.2 24	25.3	32.2	65	9.6	1.1	60	0	4.9	16.2 F	B

542875.6	6901519	4638.4	24	1	0	1	13.2	18.3	18	37.9	0.1	5.4	G	B?
545233.3	6895496	4478	24	0.5	0	0	6.3	13.3	16.6	53.9	1	7.4	H	D
545975.6	6893564	4426.3	24	0.6	0	0	7.2	13	22.6	28.5	2.6	7.2	I	D
548250	6887643	4279.4	24	0.9	0	0	12.3	19.5	38.2	0	4.5	0	J	D
548382.4	6887353	4271.5	24	0.5	0	0	6.1	15.3	2	0	1.1	0	K	B?
552582.1	6876524	3956.7	24	0.7	0	0	9.3	18.1	25.2	38.1	4.2	9.7	L	B?
552866.5	6875818	3936.1	24	3.4	13.7	0	14.3	7.3	54.7	64.5	4.7	15.9	M	B
552933.4	6875666	3932.1	24	1.2	0	0	22.9	33.5	20.5	58.7	4.7	8.5	N	B
553220.6	6874909	3912.2	24	0.7	0	0	11.3	20.9	27.1	47.6	1.5	9.7	O	B?
554295.4	6872122	3836.1	24	0.1	10.6	1	0.1	15	37.1	0	0.4	0	P	B?
554338.5	6872006	3832.9	24	0.6	0	0	11	24.4	37.1	75.7	2.8	12.8	Q	B
LINE 1	1200													
539720.3	6910811	4968.6	24	2	0	0	14.9	11.6	47.2	46.5	7.1	14.6	A	B
539818.4	6910514	4978.5	24	1.1	0	5	10.5	12.7	40.5	71.4	5.7	14	B	B?
539931.8	6910125	4989.5	24	2.5	0	0	11.2	6.8	104.9	5.5	3	1	C	B
540128.1	6909721	5000.8	24	1.6	0	1	13.3	12.2	32	41.2	2.1	9.6	D	B?
540198.3	6909513	5006.2	24	0.7	0	0	12.7	25.4	38.2	61.8	2.3	11.5	E	B?
540478.9	6908778	5025.9	24	1.4	0	1	28.7	37.8	99	148.1	5.1	29.9	F	B?
540654.6	6908397	5036.4	24	0.5	0	1	8	20.3	18.3	6.8	1.2	9.8	G	B?
542963.4	6902473	5186.4	24	0.7	0	0	11.3	23.8	56.4	76.5	2.1	20.3	H	B
543049.3	6902285	5191.3	24	716.8	0	11	19.7	0.3	44.2	32	8	15.6	I	B?
543166.8	6901997	5198.7	24	1.3	0	0	17.6	21.7	106.9	84.1	0	31	J	B?
546016.4	6894575	5400.3	24	0.3	0	3	4.3	19.4	16.9	52.1	1.9	8.5	K	B?
547299.4	6891155	5512.2	24	0.7	0	0	18.4	43.7	65.1	184	3.8	28.8	L	B
LINE 1	1210													
539757.4	6911878	1765.9	25	0.6	7.3	0	9.7	23.7	29.2	56.4	9	10.9	A	S
539799.7	6911730	1761.9	25	0.4	0.3	242	7.3	27.5	43.3	125.4	1	20.4	B	M
539858.8	6911538	1756.8	25	1.3	14.4	47	18.6	23.5	176.3	103.5	32	53.2	C	S?
539936.2	6911332	1751.1	25	0	0	0	0.3	19.1	1.1	77.8	1	0	D	S?
540046.2	6911080	1743.9	25	0.8	8.1	334	15.1	29.5	56.3	90.1	2.1	17.3	E	S?
540495.3	6909971	1713	25	0.3	14	0	3.5	10.8	43.3	50.7	0.8	20.4	F	S?
540563.1	6909778	1707.8	25	0.6	12.7	0	9.4	19.2	12.5	17.5	2.1	4.9	G	S?
540936.1	6908812	1680.3	25	0.6	0	0	18.3	49.3	18.8	44.4	0.4	5	H	S?
543112.2	6903132	1528.5	25	0.6	2.1	1	14.7	36.6	53.7	106.1	2.7	18.9	I	B?
543196.9	6902941	1523.1	25	1.1	3.9	0	28.5	47.3	43.3	29.9	0	13.3	J	B
543250.4	6902815	1519.5	25	1.6	8.4	0	30.9	37.3	43.3	55.9	0	7.1	K	B
543316.8	6902654	1514.9	25	1	4.3	0	24.9	43.8	122.8	147.4	11.6	44.3	L	B

543389.2	6902478	1509.8	25	0	0	0	0.3	35.4	1.1	56.3	1	0 M	B
543450.2	6902319	1505.2	25	1.3	1.1	0	40	63.4	51.5	100.8	7.1	18.6 N	B
543527.8	6902105	1499	25	999	51.7	1	12.7	0	79.2	94.2	7.8	26 O	B
544064	6900742	1460.7	25	0.6	13.3	0	7.9	17.2	17.1	48.9	1.8	7.1 P	D
545287.9	6897574	1367.4	25	0.1	0	14	2.7	28.6	13.4	69.3	1.8	11 Q	S?
545313.9	6897510	1365.5	25	0.4	2.5	0	6.9	24.1	43.3	69.3	0	11 R	S?
545407.9	6897277	1358.4	25	0.5	8.5	1	7.6	19.9	10.8	43.8	1.5	4 S	B?
547330.9	6892289	1214.5	25	0.6	22.5	0	6.1	11.4	43.3	39.3	0.5	20.4 T	B?
549236.1	6887388	1065.9	25	1.1	17.1	0	14.7	19.4	33.4	16.7	1.1	1.2 U	S?
550317	6884668	961.2	25	0.4	5.5	0	6.7	20.9	43.3	125.4	1	20.4 V	B?
550346.8	6884574	958.4	25	0.8	12.6	0	13	22.6	28.6	53.1	1.2	9.1 W	S
554305.3	6874305	580.4	25	0.9	7	0	19.9	34.8	12.1	20.5	1.2	3.5 X	D
554502.1	6873812	565.5	25	0.6	7.8	0	10.1	23.7	31.4	76.8	2.3	12.4 Y	B
LINE 1	1220												
539913.9	6912523	1884.4	25	0.6	0	0	15	40.1	53.5	120.2	9.5	19.2 A	S?
540010.1	6912291	1892	25	0	0	568	0	2.2	0	0	0	0 B	M
540091.8	6912118	1897.7	25	622.3	0	196	2.4	0	0	4.8	0	0.2 C	M
540219	6911851	1905.9	25	0.7	0	0	5.6	8.5	86.3	30.9	5.9	6.2 D	S?
540269.1	6911726	1909.5	25	1	0	109	21.2	36.2	86.3	134.6	6.2	24.6 E	S?
540327.6	6911563	1914.1	25	0.9	0	298	9.9	14.5	0	0	8.6	0 F	S?
540376.6	6911423	1918.1	25	0.7	0	192	12.4	24.3	125.6	198.5	0.1	47.1 G	S?
540512.6	6911075	1928.2	25	0.6	0	0	15	41	32.3	115	2	15.5 H	S?
540913.4	6909994	1959.8	25	0	0	0	12.2	2.2	28.5	32.3	2	6.6 I	S
541258.8	6909058	1987.9	25	0.5	0	0	9.9	27.4	11.2	56.6	0.3	7.4 J	D
542653.4	6905464	2083.9	25	0.6	0	0	10.3	23.2	50.8	85.1	4.6	18.6 K	B?
542874.6	6904890	2099.2	25	0.8	0	0	16.2	32.1	30.5	62.4	1.2	11.4 L	B
543422.4	6903445	2136.6	25	0.9	0	2	11.9	19	27.5	45	0.2	7.4 M	S?
543574.1	6903053	2146.8	25	0.8	0	0	13.7	23.5	75.5	52.9	11	19.8 N	B
543718.3	6902686	2156.4	25	0.5	0	0	8.4	20.8	25.1	56.6	3.9	10.3 O	B
543914.7	6902175	2170	25	0.8	0	0	14.8	28.3	60.1	96.7	0	22.1 P	B?
546855.8	6894617	2372.5	25	0.9	0	1	13.9	21.7	23.2	57.2	1.6	10.6 Q	S
547700.5	6892454	2434.4	25	0.7	0	0	6.4	9.8	13	43.3	1.4	5.2 R	S?
548043.8	6891544	2460.3	25	0.4	0	0	5	12.4	14.6	25.6	1.8	6.1 S	B?
548336.4	6890911	2479.2	25	0.7	0	0	12	22.9	0	73.5	2.4	0 T	B?
548538.4	6890342	2494.9	25	0.7	0	0	12.4	26.8	31.3	74.8	2.6	12.8 U	B?
548859.3	6889453	2518.4	25	0.4	0	0	6.4	17.8	8.9	28.6	1	4.8 V	B?
549675.8	6887345	2584.3	25	0	0	0	0	19.4	28	97.7	2.2	14.5 W	S

550808.4	6884474	2678	25	0.5	0	0	7.2	19.7	32.7	92.4	1.2	14.2 X	S
550898	6884274	2685	25	0.3	0	0	7.4	31	0	70.7	0.7	12.4 Y	S
554269.8	6875528	2996.2	25	1.2	0	1	14.9	19.2	0	44.9	2	11 Z	S?
554351	6875310	3003.6	25	0.8	0	0	13.5	24.2	28	40.1	1.1	8.2 AA	D
554580.3	6874760	3021.2	25	0.6	0	0	10.8	24.3	37.9	95.8	2.8	15.9 AB	B?
554713.6	6874403	3032	25	0.6	0	0	18.6	51.9	94.4	224.1	3.9	40.3 AC	B
LINE 1	1230												
540221.2	6912857	4297.8	25	0.6	0	0	13.2	36.9	16.6	86.9	0.4	11 A	S?
540360.2	6912540	4288.3	25	0.5	0	0	10.6	34.7	66	176	3.5	29.3 B	S?
540521	6912045	4273.2	25	0.3	0	333	7.6	34.7	125.2	205.2	10.6	45 C	S?
540685.6	6911631	4259.6	25	0	0	0	0	0.5	196.6	297.9	1	76.1 D	S?
540804.1	6911370	4250.6	25	0.3	0	0	5.9	23.4	17.9	103.7	0	13.5 E	S?
540963.6	6910895	4237.7	25	1.4	9.3	0	18.8	21.4	43.2	48.1	3.5	13.8 F	D
541599.7	6909281	4193.5	25	0.4	0	2	7.6	28.7	14.3	65.9	2	9.5 G	S?
543313.6	6904835	4071.2	25	0.7	9.8	1	9.1	16.5	28.9	46.9	3.3	12 H	B?
543800.8	6903605	4039.3	25	0.7	0.8	1	12	26	40.7	51.9	5.3	16.2 I	B?
544006.1	6903125	4026.7	25	0.7	1.3	0	12.1	25.7	32.5	69.1	4.6	12.4 J	B?
544159.5	6902780	4017.6	25	0.9	0.9	0	17.2	31.5	78.4	130.8	7.8	29.3 K	S?
544332.8	6902290	4004.8	25	1.1	0.9	0	21.8	34.3	85.9	130.1	5.8	30.8 L	S
545409.9	6899541	3929.6	25	0.4	0	0	9.1	36	38	95.6	1.9	15.7 M	S?
546698.8	6896172	3831.1	25	0.6	3.9	0	8.8	19.7	32.6	30	1.2	3.1 N	S
548037.4	6892639	3733	25	0.7	11.5	0	8.1	14.8	32.4	31.3	3.6	12.2 O	B?
548873.9	6890554	3668.6	25	0.6	6.2	0	9.3	18.8	0	63.5	2.1	11.3 P	B?
549264.4	6889413	3636.3	25	0.4	0	0	7.4	22.2	32.4	48	0.8	7.8 Q	B?
552077.5	6882291	3401.6	25	0.3	0	0	7.1	28.8	20.9	61.5	0.8	10 R	S?
553096.1	6879563	3305.5	25	0.4	0	0	7.5	27.4	9	70.8	0.6	9.5 S	S
554463.1	6876113	3184.3	25	0.1	0	0	1.2	24.8	33.9	117.3	1.5	17.4 T	S
554485.9	6876041	3181.8	25	0.4	0	0	8.2	28.4	33.9	117.3	0.8	17.4 U	S
554686.8	6875572	3163.5	25	0.7	14.8	2	7.7	12.8	103.8	170.8	3.7	33.7 V	S?
LINE 1	1240												
539454.6	6916000	4471.9	25	5.7	30.8	0	14.8	5.2	87.5	90.2	10.9	30.9 A	S?
539863.1	6914931	4501.2	25	0.6	0	0	10.5	24.9	9.8	75.4	1	2.5 B	S
539942.2	6914767	4505.8	25	0.8	2.5	0	14.9	26.9	32.4	43.7	2.7	8.9 C	S
540400.4	6913542	4542.8	25	0.4	0	40	8	24.5	20.7	55.6	3.6	10.4 D	D
540474.1	6913339	4548.9	25	764.2	77.6	0	4.5	0	8.5	22.7	0.8	3.5 E	E
540558.7	6913145	4554.8	25	0.9	5.2	148	13.9	23.2	105.2	107.2	12.1	37.3 F	S?
540664.1	6912884	4562.1	25	0.5	0	0	9.1	25.5	59.6	100.1	3.1	23.4 G	S

540800.6	6912529	4571.4	25	0.4	0	0	8.3	27.7	33.5	78.5	9.9	12.2 H	S?
541026.1	6911950	4587.4	25	0.6	0	264	13.9	36.1	105.7	291.2	0	49.4 I	S?
541167.3	6911589	4597.5	25	0.6	0	0	11.6	28.2	39.3	81.1	2.4	15.2 J	S?
543262.1	6906202	4737.9	25	0.5	0	0	8.5	22.5	8.3	23.9	0.9	3.1 K	B?
543446.2	6905714	4750.9	25	0.4	6	0	4.8	13.1	18.6	12.2	0	4.9 L	B?
544121.3	6903950	4797.8	25	0.9	1.9	0	16.2	28.7	40.9	85.5	3.3	15.8 M	S?
544239.6	6903646	4805.8	25	0.6	0	0	14.6	35.3	68.3	112.7	3.4	24.4 N	S?
544480.3	6902992	4822.4	25	0.8	4.6	0	13.2	23.3	55.8	116.5	3.1	19.9 O	S?
544597.6	6902691	4830	25	0.7	0.7	11	12	25.8	51.1	120.7	3.1	19.6 P	S?
544814.4	6902145	4844.1	25	0.8	0	2	17.7	35.3	46.8	81.9	2.7	17.2 Q	B?
545786.4	6899654	4909.8	25	0.2	0	1	5.1	26.9	12.3	57	0.9	8.7 R	S?
548168.4	6893504	5069.1	25	0.7	13.6	0	7.5	13	12.2	31.7	0.8	5.4 S	B?
548386.1	6892896	5084.8	25	0.6	15.5	0	6.2	11.3	6	8.8	0.9	1 T	B?
549061.4	6891167	5132	25	0.7	9.5	0	9.7	16.9	16	14.6	0	5.5 U	S
550213.8	6888291	5216.6	25	0.1	0	0	1.2	9.3	1.3	51.8	1.3	0 V	S
552536.4	6882264	5391.9	25	0.2	0	0	4.8	26.5	36.6	111.2	1.5	16.4 W	B?
LINE 1	1250												
539537.8	6916846	6856.7	25	1.9	35.9	0	7.7	5.3	57.1	0	13.6	23.8 A	B?
539702	6916458	6846.1	25	0.1	0	231	2.3	20.3	0	0	0	0 B	S?
539821.4	6916136	6836.2	25	1.4	0	0	59.4	102.2	197.3	297.3	9.8	75.8 C	B?
540179.8	6915226	6809.1	25	0.7	3.2	0	10.3	21.1	103.3	108	3.9	30.5 D	S
540396.9	6914630	6793.2	25	0.9	9.2	20	11.7	17.8	46.6	58.9	3.2	15.7 E	S?
540450.5	6914499	6789.7	25	0.7	0	0	17.6	38.4	46.6	58.9	1.3	0 F	S?
540774.7	6913681	6767.3	25	1.7	6	0	23.9	25.1	147.7	148.8	0	49.8 G	S
540829	6913545	6763.3	25	1.4	22.1	257	10.4	9.9	43.2	0	10	13.5 H	D
540991.8	6913126	6750	25	0.3	0	106	5	24.4	37.1	104.9	4.2	19.8 I	S?
541100.9	6912805	6740.4	25	0.4	0	286	9.4	31.9	67.8	185.4	1.7	31 J	S?
541394.9	6912010	6719	25	0.3	0	0	4.3	15.9	34	95.2	2.3	13.5 K	S?
542280.3	6909695	6659.2	25	0.2	1.7	0	2.6	10.7	48.3	103.3	3.3	18.9 L	S?
542756.3	6908553	6630.1	25	0.4	11.6	0	3.9	9.6	0	17.2	3.7	3.8 M	B?
542827.7	6908363	6625.2	25	0.4	0	1	6.9	22.4	19.2	44.2	2.1	8.8 N	B?
542905.1	6908157	6619.9	25	0.4	3.3	1	4.8	13.9	41.6	66.1	2.3	16.2 O	B?
543214.7	6907393	6599.2	25	0.4	0	0	8.9	30.4	21	65.9	1.9	10.5 P	S?
543640.6	6906243	6567.4	25	0.7	3.6	0	11.5	22.3	40.7	75.5	1.3	13.8 Q	B
543799.9	6905850	6556.6	25	0.5	0	0	8.3	21.1	18.8	36.5	0	7.3 R	B?
546045.1	6900028	6399.7	25	0.6	10.2	0	7.3	14.1	17.9	36.4	1.8	6.9 S	B?
546593.9	6898677	6360.7	25	1.1	11.2	2	13.4	16.9	49.5	80.9	0	16.7 T	S?

546629.8	6898580	6358.2	25	0.8	0	0	15.8	30.3	49.5	80.9	3.4	16.7 U	S?
548935.6	6892616	6189.1	25	0.7	0.7	0	12.2	25.3	31.1	59.6	2.1	11.9 V	B?
549047.6	6892300	6179.4	25	0.6	3.6	0	8.1	18.3	76.9	151.1	6.5	31.3 W	S
549234.1	6891866	6157.9	25	0.6	8.6	0	8.3	15.9	52.4	72	1	16.3 X	S
551910.3	6884983	5945.7	25	0.1	0	0	2.3	17.3	0	51	1.3	8.3 Y	S?
552223.1	6884180	5922	25	0.3	0	0	5.6	20.5	30.7	101.4	3.2	16.2 Z	S?
552255.8	6884097	5919.6	25	0.4	0	0	9	29.5	30.7	101.4	0.1	16.2 AA	S?
554640.1	6877914	5720.7	25	0.4	8.8	0	4.8	11.7	21.9	39.5	0.4	6.1 AB	B?
LINE 1	1260												
539415.3	6918100	6946.3	25	1.7	6.2	0	23.8	24.7	47.4	46.7	9.7	16.9 A	B
539888.7	6917057	6979.3	25	3.4	0.8	0	51.8	37.4	130	115.8	0	49.2 B	D
540088.1	6916499	6994.3	25	1.6	11.9	147	17.2	17.2	16.1	15.5	1.5	9.5 C	S
540190.7	6916246	7001	25	0.6	0	0	14.3	35	101.2	142.7	10	38.6 D	S
540535.2	6915396	7022.4	25	0.1	0	0	1.6	34.1	98.1	149.9	5.7	31.5 E	S?
540896.8	6914472	7047.4	25	0.1	0	0	0.8	23.2	8.5	90.6	8.4	0 F	S?
541015.2	6914159	7055.5	25	1.2	5.3	933	17.6	24	127.2	140.9	0.9	39.7 G	S
541087.4	6914012	7059.5	25	47.9	22.8	0	25.2	2.4	130.7	37.3	12.2	37.8 H	S?
541835.9	6912084	7110.9	25	0.8	9.5	0	10.5	16.7	32.6	37.3	8.4	10.2 I	S?
543297.1	6908292	7211.5	25	0.6	0	0	9.6	23	18.2	43.6	1.4	9.2 J	B?
543758.9	6907128	7241.9	25	0.5	0	0	8.6	21.7	26	66.2	3.3	11.7 K	S?
547002.8	6898664	7461.1	25	0.7	0	1	15.1	35.7	32.6	37.3	4.7	17.3 L	S?
548193.3	6895713	7542.9	25	0.3	0	0	5.9	23.5	25.7	72.2	2.2	11.3 M	B?
LINE 1	1270												
539595.6	6918930	9298.1	25	0.4	0	0	7.7	26.4	81.9	183.8	6.1	34.1 A	S?
539775.6	6918444	9285.2	25	42.1	28.8	0	16.3	1.5	0	0.6	1.8	6.5 B	D
539840.1	6918282	9280.9	25	4.2	18.4	0	19	8.9	62.1	83.8	6.8	21.7 C	D
540041.1	6917775	9267.5	25	0.8	9.8	0	8.5	13.4	59.3	115	5.2	22.2 D	S
540357.2	6916992	9245	25	5.8	25.7	0	15.3	5.4	94.9	152.6	0	26.8 E	S
540659.6	6916228	9222.2	25	1.3	0	100	24.1	32.2	88.1	222.6	15	39.6 F	S?
540996.8	6915376	9198.8	25	1.8	6.9	0	20.1	19.2	87	91.9	11	26.5 G	S?
541141.4	6915021	9189	25	1	0	0	27.8	52.1	152.5	262.3	6.8	58.1 H	S?
541260.8	6914686	9179.3	25	0.8	0	0	17.6	38	259.5	258.6	34.6	94.9 I	S?
541395.1	6914286	9167.9	25	1.2	0	0	23.6	34.9	90	140.4	0	30.5 J	S?
541473.8	6914083	9162.3	25	0.9	0	0	14.8	25	0	0	0	0 K	E
543900.8	6907881	8997.3	25	0.5	0	0	8	19.7	0	25.1	0.6	4.9 L	B?
544552.6	6906152	8949	25	0.5	0	0	7.9	21.7	13.1	19.4	3.1	5.2 M	B?
544868.8	6905327	8926.4	25	0.6	0.3	0	7.9	17.9	23.1	45.6	1.8	10.2 N	B?

545069.7	6904821	8912.3	25	0.6	0	0	9.5	21.5	3.8	13.4	2.4	2.5 O	B?
545107.9	6904713	8909.3	25	0.8	7.6	0	9	14.9	35.2	87.7	2.4	16 P	B?
545234.8	6904379	8900	25	0.6	0	0	11.2	25.7	15.6	34.5	2.8	6.5 Q	B?
545304.4	6904198	8895	25	0.2	0	0	3.7	19.7	0	17.3	1.8	4.3 R	D
549358.9	6893726	8608.8	25	1.1	12	0	10.8	13.3	14.9	24.2	0	6.3 S	S?
549506.6	6893372	8597.8	25	0.5	0	0	11.4	30.3	44.7	97.2	1.8	14 T	S?
549606.2	6893143	8590.3	25	1.1	0	1	20	31.1	10.1	43.2	1.1	6.7 U	D
LINE 1	1280												
539559.5	6920048	9385.7	25	2.3	18.5	0	11.7	7.7	36.3	34.4	7.9	12.4 A	D
539711.9	6919640	9397.1	25	3	8.8	0	20.2	12.4	32.6	13.7	11.8	11.8 B	B?
539830.6	6919398	9403.8	25	2.2	6.7	0	18.4	14.4	31.7	72.4	7	13.1 C	D
539970.7	6919104	9411.8	25	0.5	0	0	9.2	24.2	13.2	60.5	0	0 D	S?
540223.9	6918457	9428.9	25	1.3	3.4	6	14.7	16.7	30.4	63.3	2.5	9.2 E	S?
540598.9	6917502	9456.2	25	1.6	0	0	26.4	29.9	66.6	87.8	7.6	24.4 F	D
541310.3	6915653	9507.8	25	1.8	0	0	42.1	48.5	223.4	174.7	19.1	69.7 G	S
541543.6	6915081	9522.8	25	1.1	0	0	26.8	45.4	195.9	284	15	74.2 H	S
541677.6	6914776	9530.2	25	0.1	0	0	1.7	25.8	231	263.8	1.1	78 I	S?
541905.1	6914218	9543.6	25	2.1	0	0	32.7	31.6	64.9	111.2	1.8	21.8 J	S?
542085.8	6913757	9554.9	25	1.4	9.5	0	12.1	12.1	52.7	25.1	10.5	20 K	D?
545698.8	6904261	9800.6	25	0.6	0	0	8.2	16	0	0	1.6	0 L	B?
546046.1	6903371	9823.2	25	0.5	0	0	10	25.2	55.7	100.4	4.9	20.9 M	B
546311.8	6902678	9841.4	25	1	0	1	20.6	35	52.9	99.2	5.7	19.8 N	B?
552849.3	6885936	10301 9 25		0.3	0	0	3.6	12.1	8.8	0	0.9	5.3 O	B?
LINE 1	1290												
539840.9	6920445	1656.9	26	2.2	2.9	0	16.8	12.8	50.8	46.5	0	19.4 A	D
540005.3	6920063	1644.6	26	2	3.9	0	15.4	12.2	0	37.7	0.2	0 B	D
540377.6	6919110	1617.5	26	0.9	0	0	17.4	30.6	0	102.8	0	0 C	D
540657.1	6918325	1596.8	26	0.9	0.3	0	9.6	13.3	53.4	67	5.7	19.8 D	S?
540794.4	6917998	1587.6	26	2.5	0	0	40.9	35.1	73.1	87.5	0	31.2 E	D
540866	6917827	1582	26	999	0	0	50.7	0	100.1	0	45.8	45.6 F	D
541308.5	6916765	1543.7	26	0	0	0	0.1	21.2	84.1	91.4	9.8	28.4 G	S
541647.6	6915835	1519.8	26	1.2	0	0	23.6	34.9	119.8	6.3	12.4	41.5 H	S?
541687.6	6915734	1517	26	1.6	0	0	22.5	24.6	119.8	143	12.4	41.5 I	S
541764.9	6915530	1511.3	26	0.7	0	0	13.1	26.7	143.6	149.1	14.8	51.2 J	S
541790.4	6915462	1509.4	26	0	0	12	0	0	143.6	149.1	14.8	51.2 K	S?
541863.1	6915287	1504.3	26	1.3	0	0	32.2	45.9	0	128	0.2	0 L	S
545024	6907130	1291.3	26	0.5	0	0	9.2	28.3	24.9	106.9	1.6	16.5 M	S

545899.4	6904903	1234.3	26	1.1	0	0	11.9	14.9	0.4	29.9	0.5	0.6 N	B?
545984	6904704	1229.1	26	1.1	0	0	18.7	27.8	41.7	57.1	5.2	13.6 O	B
546103.2	6904395	1221.1	26	1.2	0	0	21.6	29.5	96.6	152.7	5.8	34.5 P	B
546302.8	6903862	1207.3	26	1.2	0	0	20.4	29.2	62.4	92.4	5.1	21.2 Q	B
546497.8	6903336	1193.6	26	0.1	0	0	0.4	16.3	34.1	37.7	0.2	12.9 R	B?
549966.5	6894389	949	26	0.5	0	0	6.9	17.2	5.8	45.9	2.2	9.7 S	S
551375.6	6890737	826.1	26	0.4	0	0	8.1	25.9	11.3	43.6	1.6	4.8 T	D
LINE 1	1300												
539671.1	6922097	1785.9	26	0.6	0	0	7.1	14.8	18.8	0	1.2	8.7 A	S
540084.8	6920988	1820.1	26	0.5	0	0	5.2	10.7	17.5	22.7	1.8	5.9 B	S?
540331.3	6920354	1837.6	26	3.1	0	0	29.1	19.6	46.1	33.8	17.3	22.5 C	D
540474.3	6919977	1847.2	26	0.9	0	0	12	18.5	36	51.7	0	5.3 D	D
540651.4	6919536	1858.8	26	1.8	0	0	12.2	10.2	8.6	15.7	0	2.8 E	D
540796.8	6919182	1868.1	26	2.2	0	0	15.6	11.3	29.7	50.8	2.3	6.5 F	D
540867.3	6919023	1872.3	26	5.2	0	0	17.5	6.9	15.3	50.8	13.1	6.5 G	D
541227.1	6918116	1896.5	26	1.5	0	0	12.9	12.3	61.4	7.4	8.5	26.7 H	B?
542200.3	6915572	1964.5	26	1.4	0	0	12.1	12.2	2.4	36.5	0.1	1 I	D
542298.2	6915334	1970.7	26	1.4	0	0	10.5	10.2	40	29.2	4.4	11.3 J	S
542473.7	6914852	1982.9	26	0.9	0	5	10	14.9	35.2	53.6	1.7	11.1 K	S?
545549	6906927	2187.5	26	0.4	0	0	5.4	16.3	5.4	17.5	1.8	2.9 L	B?
545819.1	6906172	2208	26	0.6	0	0	12.1	31.8	36.6	93.7	0.5	17.6 M	B?
546249.4	6905131	2236.8	26	1.1	0	0	18.1	26.4	36.7	8	0.2	1.9 N	B
546332.3	6904910	2242.8	26	0.9	0	0	18.5	32.2	69.6	138.1	4	23.7 O	B?
546498.9	6904436	2255.6	26	0.8	0	0	18.2	34.2	60.4	85.2	3.2	20.4 P	B
546643.8	6904066	2265.6	26	0.9	0	0	11	16.2	72.1	99.9	0.1	24.3 Q	B?
547553.9	6901732	2327.6	26	0.5	0	0	6.2	15.1	11.6	35.2	0.7	6.2 R	B?
549951.6	6895610	2491.6	26	0.4	0	0	5.2	14.8	1.8	46.3	0.9	5.8 S	B?
550090.3	6895264	2501.7	26	0.2	0	1	3.6	15.8	48.5	89.2	0	16.7 T	S?
550119.7	6895182	2504	26	0.5	0	0	8.3	20.3	48.5	89.2	0.8	16.7 U	S?
551583.6	6891382	2619	26	0.2	0	0	2.5	14.2	4	30	0.3	3.8 V	B?
554579.5	6883553	2903.1	26	0.2	0	0	3.6	24	0	0	1.2	0 W	S?
LINE 1	1310												
539811.8	6922760	4154.1	26	375	186.9	0	0.5	0	0	0	5.9	3.4 A	D
540267.4	6921633	4122.7	26	1.4	12.4	0	10.6	10.6	0	60.4	0	0 B	D
540323.3	6921462	4118	26	1.2	14.4	0	9.1	9.5	0	89.7	3.2	14.6 C	D
540543.1	6920889	4101.7	26	0.6	0	2	9.8	21	0	0	0	0 D	D
540597.9	6920717	4097.1	26	1.6	0.2	1	20.1	21.2	95.8	113.7	15.9	38.8 E	D

540729.5	6920355	4087.3	26	0.8	9.2	0	7.2	10.9	26.6	25.7	8.5	10.4 F	B
541046.3	6919557	4066.1	26	962.8	45	0	9	0	0	34.3	0	0 G	D
541405.6	6918646	4042.8	26	999	22	0	21.7	0	0	0	0	0 H	B
542159.5	6916738	3992.1	26	0.9	0	0	13.6	21	45.5	57.3	1.1	13.5 I	S?
544334.6	6911180	3844.3	26	0.2	0	0	2.6	16.4	28.5	78.8	2.3	12.4 J	S
545531.4	6908052	3760.8	26	0.2	0	3	4.4	24.6	22.9	78.2	1.2	13.4 K	S?
545851.4	6907256	3739.2	26	0.2	0	1	3.5	18.1	11.4	56.4	2.2	8.9 L	B?
546387.3	6905848	3701	26	0.3	0	0	4.9	16.3	0	1.3	2.7	0 M	B
546918.8	6904467	3664.5	26	1.1	0	0	22.1	34.1	72.7	114.8	6.7	25.3 N	B
547139.6	6903902	3649.8	26	1.3	0	0	19.6	24.2	70.3	82.3	0	22.5 O	B
547298.6	6903495	3639.1	26	1.6	0	0	25.5	28	79.1	94.6	5.3	24.3 P	S
549222	6898821	3508.2	26	0.1	0	0	1.3	19.2	16.1	25.5	4.3	5 Q	D
549489.3	6897903	3484.3	26	0.3	0	0	3.3	10.7	15	27.1	0.8	0 R	B?
550249.4	6895976	3428.9	26	0.4	13.2	0	3.3	6.8	18.3	33.7	2.3	6.8 S	B?
553949.3	6886447	3121.9	26	0.2	0	0	2.4	14.1	14.1	48.7	0.8	7.9 T	S
554438.1	6885091	3073	26	0.3	0	0	4.6	16.8	17.8	63.3	0.2	9 U	S
LINE 1	1320												
540143.1	6923099	4312.8	26	9.2	10.5	0	15.2	3.8	20.6	4.2	12.3	7.8 A	D
540831.6	6921364	4358	26	1.1	4.2	0	7.3	8.2	6	28.2	1	0.1 B	D
540930.9	6921119	4364.4	26	1.9	14.8	0	7.7	5.3	29.7	54.8	7.3	12.7 C	D
541015.8	6920883	4370.4	26	71.9	15.7	0	14	0.9	4.2	0	12.2	0.4 D	D
541156.2	6920470	4380.8	26	7.6	16.1	0	11.8	3.2	26.9	62.5	0.1	13.4 E	D
541491.1	6919565	4403.5	26	3.1	23.1	0	7.3	3.4	20.9	14	12	4.9 F	D
541565.4	6919410	4407.5	26	7.6	35.2	0	6.2	1.5	20.9	39.5	12	4.9 G	D
542648.6	6916584	4478.6	26	2.7	0	0	17.6	11.4	4.2	25.6	0.1	3.5 H	D
547065.9	6905292	4775.1	26	0.6	0	0	16.8	42.8	33.7	88.3	2.1	15.2 I	B?
547182.2	6904991	4783	26	0.3	0	0	4.8	15.5	33.3	63.5	4.2	13 J	B
547243.8	6904825	4787.3	26	0.4	0	0	3.9	11	4.2	29.1	1.5	14.9 K	B?
550728	6895802	5035.5	26	0.4	0	0	5.7	18.5	22.5	56.7	3	10 L	S
551271.9	6894388	5077.3	26	0.4	0	0	5.8	17.4	34.4	82.1	2.3	13.8 M	B?
554172.3	6886988	5288.9	26	0.8	4.7	0	5.5	7.4	81.8	98.3	2.2	21.1 N	S
554496.1	6886042	5330.4	26	0.2	0	0	2.6	18.1	4.2	34.8	0.8	3.7 O	B?
LINE 1	1330												
540808.8	6922479	6515.5	26	3	41.8	0	8.9	4.4	13.4	6.4	4.7	5 A	D
541244.9	6921348	6484.4	26	0.6	37.1	0	3.6	5.2	4.1	21.2	7.6	3.6 B	D
541563.4	6920526	6461.4	26	3.9	46.3	0	8.3	3.4	23.8	57.4	0.3	11 C	D
541740.3	6920046	6448.1	26	5	36.1	0	12.9	4.9	50.2	82.5	10	18.4 D	D

541804.8	6919867	6443.3	26	999	45.9	0	13.3	0	50.2	77.5	10	0 E	D
547321.6	6905637	6057.9	26	0.2	0	0	2.6	13.6	0	0	0.8	0 F	B?
547651.8	6904862	6037.3	26	0.4	0	0	10.8	38	4.1	21.2	1.9	3.6 G	D
547704.9	6904734	6033.9	26	0.6	0	1	19.1	54.5	81.8	203.6	3	35.2 H	S?
547840.1	6904348	6024	26	0.8	0	0	22	49.2	55.1	117.5	4.2	22.4 I	S?
547945.4	6904012	6015.3	26	0.9	7.2	0	14.5	24.6	30.2	57.5	2.6	9.6 J	S?
554713.6	6886640	5491.3	26	0.5	11.4	0	6.4	14.2	4.1	21.2	0.6	3.6 K	S?
LINE 1	1340												
541021.9	6923030	6814.6	26	0.2	42.6	0	0.5	1.5	19.2	21.3	7.7	9.9 A	D
541885.1	6920841	6869.5	26	6	59.1	0	5.2	1.4	0.4	1.3	0.6	0 B	D
542095.9	6920235	6884.5	26	2.3	66.7	0	3.3	1.6	16.8	14.9	0.5	5 C	B
542224.7	6919915	6892.5	26	1.3	29	0	7.2	6.6	18.9	9	0	1.1 D	D
543597.6	6916435	6980.9	26	0.2	0	0	4.4	21.4	24.7	69.3	2.4	10.6 E	S?
545518	6911565	7104.7	26	0.9	8	0	11.9	17.4	41.8	59.7	1.7	10.6 F	S
548361.4	6904226	7292.3	26	0.7	0	2	20.5	49	75.6	126.5	2.9	27.5 G	S?
549604.7	6900940	7379.3	26	0.7	0	0	18.5	48.4	65	96.2	2.9	21.9 H	S?
550914.3	6897520	7467.9	26	0.5	7.4	0	5.5	12.4	6.3	26.1	0.9	3.4 I	B?
552076.1	6894512	7551.2	26	1.8	0	0	55.1	69.1	142.3	153.8	4.3	38.8 J	S?
552097.6	6894433	7553	26	0.1	0	0	3.2	39.5	142.3	153.8	4.3	38.8 K	S?
552391.2	6893590	7574.3	26	0.2	0	1	4.1	24.1	20.1	0.3	1.2	0.9 L	B?
554336.1	6888757	7714.2	26	0.8	3.3	0	12.7	21.8	24.9	63.7	0.6	9.5 M	B?
554487.9	6888491	7723.5	26	120.1	34.1	0	15	0.7	2.3	0.3	0	0.9 N	S?
554593	6888206	7732.1	26	1.1	5.6	0	15.1	20.8	61.7	132.7	1.6	22.5 O	S?
554720.7	6887827	7746.4	26	0.1	0	0	3.2	26.8	13	79.5	1.8	10 P	S
LINE 1	1350												
540175.6	6926399	8950.3	26	0.5	0	0	9.9	27.3	53.2	146.9	0.4	24.9 A	S
541265.2	6923624	8874	26	995.5	51.9	0	9.9	0	23.1	37.1	1.3	9.8 B	B?
541358.6	6923383	8867.4	26	1.1	43.4	0	4.6	4.2	20.3	0	13.8	8 C	B?
541510.7	6922999	8856.9	26	1.9	42.9	0	6.5	4.2	6.9	0.3	6.8	3.5 D	D
541920	6921952	8827.9	26	2.6	21.4	22	16.5	11	14.6	0	3.1	4.9 E	D
542289.6	6920968	8802	26	0.1	25.1	0	0	4.4	0	0	1.3	0.3 F	D
545802.4	6911902	8552.4	26	0.4	0	0	9.4	29.9	22.2	67.8	0.6	10.6 G	S
547584.3	6907352	8427.7	26	0.2	0	3	4.6	22.8	0	0	1.5	0 H	B?
548473.1	6904921	8362.7	26	0.8	12.4	0	9.2	15.2	22.3	52.3	3.6	9.2 I	B?
549508.1	6902336	8295.4	26	0.1	25.1	2	0	12.3	0	0	1.4	0.3 J	B?
549932.8	6901193	8264.1	26	1	0	0	30	56.8	60.4	116.7	1.3	19.1 K	B?
550423.6	6899938	8230	26	0.9	9.5	0	12	18.8	20	42.8	2.1	9.3 L	B?

552925.7	6893513	8040.1	26	0.5	6.4	0	6.5	15.6	2.4	19.4	1	2.2 M	B?
553008.1	6893277	8033.2	26	0.3	0	0	8.2	35.6	21	89.3	1.9	13.3 N	D
553314.9	6892503	8011.1	26	0.5	0	0	9.1	24.1	29.4	61.8	0.8	11.8 O	S
554839.3	6888584	7875.1	26	1.3	16	0	13.4	14.6	17.9	55.2	1.3	8.1 P	S
LINE 1	1360												
541566.8	6923842	9127.1	26	2	25.9	0	11.9	9	37.6	37.3	9.2	18.2 A	B?
541780.3	6923329	9140.6	26	0.8	10	0	10.3	17.5	39.7	64.9	8.2	18.7 B	B?
542172.9	6922354	9165.8	26	0.6	2.5	0	10.8	23.5	22.1	92.9	1.9	11.8 C	S?
544025	6917476	9288.5	26	0.4	0	0	7.8	23.2	43.1	69.9	1.6	14.6 D	S?
544081.6	6917344	9291.8	26	0.3	0	0	4.2	17.7	43.1	69.9	1.2	14.6 E	S?
546396.4	6911461	9438.8	26	1.7	16.9	0	15.4	14.4	61.7	62.9	3.1	15.9 F	S
546476.9	6911246	9444.1	26	0.7	8.7	0	9.8	18.1	24.2	49.5	2.8	9.5 G	S
549214.4	6904180	9622.2	26	999	31.5	6	22.1	0	45	0	1.1	10.8 H	D
550245.9	6901540	9691.6	26	0.2	0	0	2.8	15	9.9	0	1.2	9.7 I	B?
550279.3	6901434	9694.1	26	0.7	0	0	15.6	33.2	14.5	87.2	0	9.7 J	S
550704.3	6900415	9720.2	26	0.7	8.3	0	9.6	18.3	18.6	56.5	3.3	10.1 K	S?
550807.6	6900158	9726.9	26	0.9	9.2	0	12.5	19.5	28.1	67.4	0.6	11 L	D
550920.2	6899837	9736.2	26	0.6	4.4	0	9	20	28.1	30.5	1.9	11 M	D
552613.9	6895421	9874	26	0.2	0	0	2.5	14.5	14.8	88.4	0.5	12.6 N	B?
553154.6	6893969	9921.8	26	0.6	0	0	13.7	34.3	23.2	50.5	1.2	8.4 O	D
553604.5	6892844	9953.4	26	0.7	0	0	18.4	47.8	63.8	149.3	3.9	26.6 P	S
LINE 1	1370												
541811.1	6924317	1628.5	27	999	28.4	13	15	0	35.2	23.1	3.7	9 A	D
541889.9	6924124	1623.3	27	2.9	13.4	0	14.7	8.7	0	26.2	0	0 B	B
542171.7	6923412	1604.2	27	1.7	23.9	0	7.5	5.6	37.5	32.9	0	12.4 C	D
542214.9	6923292	1600.9	27	0.1	12.8	28	0	14.2	25.2	32.9	0	6.2 D	D
542450.3	6922641	1582.8	27	4.7	26.1	9	10.7	4.1	19.6	2.3	7.4	6.3 E	D
542725.5	6921971	1563.8	27	1.7	5.7	15	15	13.5	34.4	52.7	5.3	13.8 F	D
543832.1	6919160	1484.6	27	999	11.5	0	31.7	0	87.5	21.4	29.8	46.7 G	D
544321.1	6917910	1450	27	992.1	39.9	0	9.8	0	8.5	14.2	8.4	0 H	D
544499.8	6917448	1436.9	27	0.1	0	0	1.8	32.4	51.8	112.1	6.4	25.4 I	S
549599.7	6904278	1067.9	27	0.5	0	0	11.6	38.7	97	135.6	8.4	38.9 J	B?
LINE 1	1376												
550392.3	6902144	1801.9	53	0.7	2.2	0	11.8	24.3	3	107.8	2.5	2 A	S
550436.8	6902017	1797.2	53	0.5	0.7	0	7.3	19.8	57.8	107.8	2.8	15.4 B	S
550579.3	6901702	1784.8	53	0.6	0	1	23.2	69.6	91.6	251.5	3.5	37.4 C	S?
550654.1	6901541	1778.5	53	0.8	0	0	17.9	38.3	3	34.3	1.2	1.2 D	S?

551028.8	6900580	1744.4	53	0.9	9.1	0	11.7	18.4	0	70.7	2.1	10.1 E	B?
551117.2	6900345	1736	53	0.8	13.2	0	8.7	14	0	8.5	1.4	1.2 F	D
553840.6	6893349	1491.2	53	0.5	0	0	9	26.1	3	68.7	1.4	10.7 G	S?
553951.7	6893070	1481.6	53	0.6	0	0	10.2	25.1	22	84.4	1.4	11.9 H	S?
LINE 1	1380												
542161.3	6924621	1839.2	27	583.3	115.3	0	2	0	81.1	10.9	30.1	30.4 A	B
542225.2	6924445	1843.7	27	8.5	25.1	0	22.9	6.8	81.1	37.1	30.1	30.4 B	B
542320.2	6924156	1851.1	27	1.9	10.3	0	24.6	23.6	68.6	74.9	22	28.8 C	D
542548.4	6923554	1866.9	27	1.2	20.4	0	11.1	12.4	51.4	40.3	0	19.1 D	S?
542768	6922963	1882.9	27	1.1	19.4	0	10.2	12.6	13.9	45.2	1	5.4 E	D
542969.4	6922490	1896.2	27	0.9	14.1	2	10.2	15.7	48	75.6	7.8	19.7 F	B?
544798.1	6917755	2018.8	27	700	33.9	0	20.4	0.3	44.2	29.5	23.3	14.8 G	D
545362.4	6916247	2058	27	0.1	0	0	1.5	30.5	3.4	81.1	1.2	14.5 H	S?
547361.9	6911098	2192.3	27	0.5	2.2	14	8.8	22.5	21.6	76.9	1.4	11.9 I	S?
548258.6	6908808	2253	27	0.2	0	9	2.4	16.3	17.5	53.3	2.9	9.3 J	S?
549701	6905171	2347.7	27	0.4	0	0	8.4	29.2	30.8	92.7	1.3	16.8 K	S
550609.5	6902840	2409.6	27	0.3	7	0	3.5	11.5	11.6	48.2	0.9	5.7 L	B?
550952.2	6901856	2434.6	27	0.4	0	0	9.9	33.2	87.9	125.5	7.5	30.4 M	S?
551022.9	6901676	2439	27	0.2	0	2	3.7	16.9	11.8	40	5.2	8.6 N	B?
554393.4	6892970	2694.2	27	0.1	0	0	0.9	30.1	63.5	103.9	4.2	23.5 O	S?
LINE 1	1390												
542605.6	6924557	3931.7	27	3.8	4.4	20	34.8	20.4	0	15.1	32	0 A	B?
542669.8	6924427	3928	27	2.7	0	0	49.5	42.2	119.5	129.8	32	43.6 B	D
542757.8	6924238	3922.8	27	215	363.7	5	0	0	0	0	29.5	0 C	B?
543696.3	6921651	3847.7	27	0.2	0	9	3.1	17.9	5.2	0	3.2	1.7 D	B?
544204.5	6920456	3814	27	3.6	12.1	7	22.9	12.7	62.8	37	18	28.1 E	D
544712.3	6919128	3777.5	27	1.7	9	0	16.8	16	27.4	41.1	4.3	10.2 F	D
544840.1	6918800	3768.1	27	2	13.9	2	15.2	12.2	25.1	49.2	3.1	10.4 G	D
545103.8	6918092	3747.4	27	1.5	15.5	0	11.9	11.1	33.7	7.8	3.8	7.9 H	B?
548694.1	6908839	3475.6	27	0.3	0	0	3.4	14.3	7.5	30	0.8	5.1 I	S?
551156	6902509	3298	27	0.5	0	0	9.4	24.3	36.3	71.1	1.5	14.6 J	S?
554725.4	6893285	2997.9	27	0.8	5.4	0	10.3	16.5	57.8	124.8	2.3	25.6 K	B?
554816.6	6893063	2990.2	27	0.8	0	1	13	23.1	52.1	80.4	4	18.8 L	S?
554908.8	6892815	2980.5	27	0.7	0	0	14.7	33.7	46.6	111.2	0.7	18.5 M	S?
555132.5	6892248	2958.8	27	0.6	0	0	15.1	42.6	41.1	140.9	1.2	24.2 N	S
LINE 1	1400												
542892.5	6924923	4128.5	27	4.1	3.1	11	43	25.4	120.4	69.8	59.1	48.2 A	D

542946.6	6924803	4132.1	27	1.1	31	0	5.9	5.8	3.4	0	37.4	1.1 B	D
543044.6	6924580	4138.7	27	1.9	12.7	0	16.9	14.5	32.2	50.1	16.6	13.1 C	D
543142.5	6924308	4146.3	27	0.4	0	0	7.6	23.5	1	0	1	0 D	B
543392.5	6923562	4167.7	27	0.1	21	1	0	2.4	10.8	48	1.4	14.4 E	B?
543545.4	6923222	4178.1	27	1.2	25.2	1	7.2	7.5	24.2	29.2	0.7	7.8 F	D
543655.6	6922900	4187	27	999	17.6	0	35.5	0	82.4	22.4	33.9	34.3 G	D?
543678.9	6922826	4189	27	1.2	6.8	0	14.7	18.9	82.4	22.2	33.9	34.3 H	D
543866.9	6922403	4201.2	27	2.3	12	4	19.5	15.1	50.3	41.1	1.9	4.5 I	S?
544033.8	6922015	4212.2	27	3.5	27.8	11	12.5	6.1	35.2	2.9	9.6	16.9 J	D
544512.2	6920715	4246	27	2	3.2	1	27.6	26.2	57.6	91.7	2.1	19.4 K	D
545131.9	6919103	4289.9	27	3	11.2	0	23.9	15.5	33.4	23.5	6	9.4 L	D
545186.9	6918962	4293.6	27	0.9	11.4	6	9.2	13.5	24.6	22.2	3	9.4 M	D
545460.4	6918299	4310.4	27	0.9	5.9	1	11.8	18.4	41.5	37.9	13.5	18.7 N	B?
554724.3	6894562	4984.5	27	1.1	0	0	26.9	44.8	91.8	230.5	5.6	41.1 O	S?
555199.2	6893186	5024.2	27	0.6	0	0	12.4	31.8	48	138	2.1	19.5 P	S
555331	6892888	5038.9	27	0.3	0	0	5.9	25.3	51.3	113.6	1	21.7 Q	S
LINE 1	1410												
543101.9	6925462	6341.9	27	7	26	0	19.8	6.5	84.8	58.1	42.5	36.5 A	D
543308	6924911	6327.5	27	1.9	17.7	0	16.4	13.9	42.3	70.5	0.4	14.9 B	D
543458.9	6924537	6317.1	27	0.6	5.7	0	8.6	18.6	32.5	97.4	0.4	15.2 C	D
543617.3	6924132	6305.1	27	1.8	30.7	0	9.6	7.2	40.6	45.3	7.8	16.6 D	D
543659.6	6924033	6302	27	1.8	13.3	0	18.9	17.9	40.6	44.3	7.8	16.6 E	B?
543893.4	6923432	6281.2	27	28.6	35.6	0	15	1.8	69.6	24.8	15.1	25.5 F	B
544022.9	6923100	6270.7	27	2.4	12.9	0	23.7	18.5	34.7	50.2	7.4	12.9 G	D
544112.4	6922859	6264.1	27	3.3	19.3	3	21	12.2	13.4	0	7.2	4.4 H	D
544343.3	6922298	6248.4	27	4.3	19.9	19	22.7	11	58.3	39.4	26.8	29.5 I	D
544422	6922078	6242.3	27	0.8	0	0	17.9	35.3	68.6	143.9	0.4	31.2 J	S?
545399.5	6919513	6172.9	27	3.2	13	0	28	17.9	12.8	11.2	4.6	4.7 K	D
545611.3	6918973	6156.3	27	2.9	8.5	0	33.3	24.5	25.7	52	7.5	14.4 L	D
549521.4	6908952	5869	27	0.3	4.4	0	3.6	12.3	14.9	0	1.7	6.6 M	B?
554895.1	6895075	5422.2	27	0.4	0	0	8.5	28.8	35.8	113.8	1.8	17.9 N	S?
554926.9	6894986	5419.5	27	0.6	0	4	13.9	39.7	35.8	113.8	0.4	17.9 O	S?
556547.4	6890805	5257.8	27	0.3	0	0	6	24.8	10.3	48.5	0.9	7.4 P	S?
556635.5	6890585	5247.1	27	0.4	11.1	0	4.7	11.4	2.5	18.4	0.5	1.7 Q	B?
LINE 1	1420												
543435.9	6925728	6509.6	27	2.3	8.6	0	28.2	23.4	0.8	49	0.2	0.3 A	D
543538.8	6925463	6518.2	27	11.1	7.9	3	55.5	16.7	101.6	90.3	44.6	32.6 B	D

543599.4	6925305	6523.2	27	47.4	32.8	0	16.8	1.5	0.8	0	0.3	0 C	B
543940.4	6924422	6550.3	27	502.2	41.2	0	13.8	0.2	42.7	16.4	22.6	20.1 D	D
544168.5	6923900	6564.5	27	0.1	0	0	0.7	12.3	32.8	3.2	2	9.3 E	B
544207.7	6923811	6566.8	27	7.3	31.3	5	15.5	4.7	32.8	31.6	0.6	9.3 F	B
544287.4	6923617	6571.7	27	12.8	7.6	4	57.9	15.9	61.3	18.3	44.9	22.2 G	D
544386.1	6923319	6579	27	2.3	0	0	47.8	47	61.1	123.6	10.5	23.3 H	D?
544464.1	6923075	6585	27	61.5	20.7	0	30.2	2.5	9.8	16.4	6.9	5.1 I	D
544591.3	6922733	6593.9	27	0.9	15.2	2	9.9	13.7	47	23.6	32.7	24.3 J	B?
544743	6922341	6604.2	27	1.5	18.1	3	13	12.9	34.7	23.6	13.7	20.1 K	B?
545021.4	6921624	6622.1	27	36.2	38.2	0	13.3	1.3	12.4	26.1	0.2	4.2 L	D
545116.1	6921402	6627.8	27	2.2	27.5	0	11.7	8	49.7	44.5	16.7	18.5 M	B?
545194	6921220	6632.6	27	2.1	22.3	25	14.1	10.4	32.9	27.6	10.1	13.5 N	B?
545275.7	6921006	6638.2	27	0.1	24.6	37	0	14.2	81.6	55.2	15.5	34.6 O	B?
545652.1	6919967	6666.2	27	6.8	50.9	0	7.4	2	43.2	13.1	18.8	19.2 P	D
545827.6	6919523	6678.2	27	8.2	20.1	0	26.3	8.2	15.9	4.5	6.3	6 Q	D
545929.9	6919255	6684.9	27	1.3	18.8	5	11.7	12.3	42.9	54.8	7.8	19.1 R	D
546007.3	6919053	6689.8	27	1.6	12.6	0	17.3	17.7	30.7	36.7	5.2	12.2 S	D
546040.5	6918964	6692	27	1.4	8	0	19.1	22.8	27	36.7	0.2	9.4 T	B?
546499.6	6917763	6725.8	27	0.4	3.6	0	5	14.6	7.1	36.1	3.4	5.9 U	B?
556429.4	6892248	7430.8	27	0.3	0	1	5.8	28.3	0.8	92.5	0.3	17.7 V	B?
LINE 1	1430												
543899.1	6925694	9089.9	27	999	0	0	14.7	0	0	86.1	0	0 A	D
543940.9	6925616	9087.6	27	4.8	0	0	54.4	30.2	127.2	86.1	63.5	56.7 B	D
544027.7	6925424	9082.3	27	999	0	0	24.9	0	0	21.1	0	0 C	D
544222.3	6924850	9067	27	1.7	0	2	19.1	19.1	24.5	38.3	3	0 D	D
544523.3	6924067	9040.5	27	3.1	0	0	74.8	64.8	113	109	26.3	42.7 E	D
544651.6	6923715	9025.7	27	3.4	0	1	31.6	19.8	76.9	31.4	25.4	21.6 F	B
544701.4	6923568	9021	27	999	0	0	52.1	0	85.2	23.5	44.4	30.4 G	D
545620.1	6921186	8955.8	27	999	0	0	37	0	139.2	55.6	100.2	55.2 H	B?
545667.9	6921074	8952.7	27	8.5	0	18	34.1	11.1	149.2	21.7	100.2	56.8 I	B?
546010.7	6920190	8928.4	27	896	0	1	7.2	0	79.9	28.5	32.4	36.6 J	B
546053.5	6920079	8925.3	27	4	0	0	40.3	23.8	89.8	85.5	0	36.5 K	D
546219.6	6919639	8913	27	999	0	17	18.9	0	0	0	0	0 L	D
546307.4	6919402	8906.3	27	999	0	0	17.3	0	0	0	5.8	0 M	D
546475.3	6918964	8893.7	27	1.8	0	0	22.9	22.7	30.8	45.5	3.9	9 N	D
546662.2	6918536	8881.6	27	2.1	0	0	20.5	16.8	35.1	0	6.6	0 O	D
546917.9	6917805	8859.6	27	0.3	0	13	5.2	20.9	0	23.5	0	3.9 P	B?

548231.9	6914552	8754.8	27	0.1	0	0	0	8.2	0	3.6	0.3	0.4 Q	B?
549138.9	6912090	8679	27	0.1	0	0	0	20.4	8.2	42.2	1.4	3.1 R	B?
549464.6	6911331	8655.1	27	0.5	0	0	10.4	27.1	3.8	21	1.2	2.2 S	D
550877.8	6907664	8547.4	27	0.6	0	0	11.1	27.4	27.9	44.4	2.7	10.1 T	S?
551733.4	6905426	8485.3	27	0.4	0	0	6.8	22.3	17.5	45.3	0.5	7.8 U	S?
553221.9	6901555	8370.7	27	0.9	0	0	13.3	21	35.9	62.5	2.3	12.1 V	S?
556326.3	6893592	8128.2	27	0.8	0	0	19.8	42.9	73	10	7.2	22.9 W	S?
556763.4	6892431	8084.6	27	0.3	0	0	5	23.1	22.3	50.7	1.5	7.1 X	D
LINE 1	1440												
544012.3	6926476	9228.3	27	1.9	9.8	0	27.7	27.9	10.9	39.3	9.5	8.6 A	D
544119.1	6926137	9238.3	27	2.2	32.2	0	11.5	7.8	23.4	0	12.4	0.1 B	D
544207.7	6925895	9245.4	27	143.7	74.1	6	5	0.2	154.3	0.1	42.6	64.2 C	D
544232.4	6925829	9247.4	27	3.4	0	5	98.5	83.9	154.3	199.4	42.6	64.2 D	D
544440.2	6925313	9264.4	27	3.1	36.8	0	11.3	5.9	4.9	0	0	23.2 E	D
544545.3	6925115	9271.3	27	2.7	20.1	0	21.5	14.5	43.5	28.7	25.3	15.6 F	D
544777.1	6924507	9290	27	5.9	10.1	0	52.2	24.6	75	25.8	33.6	35.4 G	D
544920.4	6924093	9302.6	27	5	33	0	15.6	6.1	66.9	0	58.4	23.8 H	D
545015.6	6923824	9311.4	27	7.9	8.2	4	65.1	26.1	85.8	73.1	60.2	31.5 I	D?
545065.8	6923707	9314.9	27	215	373.3	0	0	0	76.3	73.1	38.3	28.7 J	D
545132.2	6923562	9319.2	27	38.3	28.1	0	24.9	2.7	58.9	18.5	0	8.8 K	D
545189.8	6923433	9323	27	2.2	9	0	33.3	30.1	58.9	117.4	0	23.5 L	D
545655.1	6922226	9356.3	27	1	15.2	0	12.5	17.5	34.9	35.1	22.6	23.5 M	B?
545718.6	6922063	9360.7	27	3.1	38.8	0	10.5	5.3	0	7.2	0	0 N	B?
545781	6921897	9365.2	27	2.7	21.5	0	19.9	13.4	5	43	0	2.5 O	B?
545827.5	6921767	9368.7	27	1.7	29.7	5	10.7	8.9	59.5	19.9	11.3	22.1 P	B?
546022.1	6921287	9381.8	27	2.4	34.7	22	10.8	6.8	0.2	0	1	13.7 Q	B
546077.7	6921161	9385.2	27	463	42.6	0	15.2	0.3	43.2	10.7	23.4	20.4 R	D
546107.6	6921090	9387.1	27	2.6	16.4	0	24.8	18.4	126.2	86	23.4	20.4 S	D
546277	6920672	9398.2	27	1.3	10.6	1	20	24.9	0	33.2	2.2	0 T	D
546360.5	6920441	9404.5	27	2	25.9	0	13.9	10.7	32.3	15.1	1.4	5.6 U	D
546447.1	6920173	9411.7	27	1.4	20.1	0	13.5	14.3	8.2	26.7	8	7.2 V	D
546513.4	6919966	9417.2	27	2	33.7	0	10.2	7.3	32.8	26.6	0	0 W	D
546600.8	6919721	9423.7	27	0.9	2.3	0	20	38	35.1	56.2	0	7.5 X	D
546796.7	6919245	9436.7	27	0.6	20.3	0	6.4	11.3	3.6	22.9	2	0 Y	S?
546972.6	6918829	9448.3	27	2.8	41.2	1	9.3	4.9	37.8	0	9.7	15 Z	D
548632.3	6914547	9558.8	27	0.5	7.4	0	6.4	17	14.7	50.8	1.5	7.1 AA	S
551291.9	6907664	9735.9	27	0.4	14	0	4.2	11	12.6	11.1	0	3.8 AB	B?

553720.3	6901402	9904.8	27	0.5	7.3	0	7.2	18.2	5.7	21.2	0.5	2.3 AC	B?
556753.5	6893657	10104	1 27	1.4	24.5	0	11.4	11.4	77.9	87.2	6.1	25 AD	S
LINE 1	1450												
544444	6926442	1875.4	29	2.4	0	11	53.4	53	155.7	179.2	11.6	55.2 A	D
544551.4	6926137	1866.7	29	0.7	2.4	1	12.1	23.9	6.8	64	6.2	13.8 B	D
544660.3	6925876	1859	29	215	368	1	0	0	88.4	73.8	11.5	29.9 C	B?
544891.3	6925334	1841.3	29	537.1	124.9	0	1.6	0	6.8	0	0	2.2 D	B?
544964.3	6925134	1833.1	29	0.4	9.7	0	3.6	9.7	9.2	36.5	0	3.3 E	B
545107.3	6924752	1818	29	2.5	11.1	0	24.5	18.3	60.9	56.1	8.6	15 F	D
545169.1	6924570	1811.1	29	3.6	16.2	0	23	12.8	41	20.5	0	11.9 G	D
545260.2	6924377	1803.2	29	5.5	5.1	0	50	24.5	67.5	59.3	16.6	26 H	D
545324.5	6924236	1798	29	1.2	4	0	18.8	26.2	28.3	31.5	0	2.8 I	D
545401.1	6924018	1791.5	29	9.9	19.6	2	26.4	7.2	36.4	37.9	5.8	17.2 J	D
545427.4	6923943	1789.4	29	5.2	10	2	36.9	17.5	68.6	37.9	28.4	25.1 K	D
545514.8	6923718	1783.1	29	4	19	0	21	10.6	6.8	41.5	0	2.2 L	D
545586.4	6923542	1778.2	29	1.7	30.3	0	8.5	6.7	15.3	23.3	0	3.4 M	D
545641.5	6923409	1774.5	29	1.6	16.3	0	14	13.4	15.3	31.2	2.5	3.4 N	D
545672.9	6923328	1772.3	29	1.7	17.4	0	14.2	12.7	21.6	31.2	0	2.2 O	D
545809.3	6923007	1763.3	29	7.9	28.8	0	16.6	4.8	30.6	14.4	4.9	11.7 P	D
546297.9	6921712	1728.2	29	1.7	1.4	1	30.4	34.4	73.1	65.3	9.3	24.9 Q	D
546403.6	6921448	1720.9	29	1.5	25.7	0	9.3	8.3	59.6	51.6	11.3	22.2 R	B
546809	6920424	1692.6	29	0.7	24.2	0	5	7.6	33.6	45.1	2.7	11.4 S	B?
547177.9	6919488	1666.6	29	3.5	16	0	23	13	55.4	5.1	5.9	14.5 T	D
550124.6	6911805	1420.2	29	0.8	10.1	2	9.8	16	32.8	62	2.8	10.9 U	S?
550174.2	6911667	1416.2	29	0.2	0	0	4	23.8	32.8	42.5	0.5	10.9 V	D
551463	6908332	1317.6	29	0.6	2.6	0	8.9	19.8	28.7	72.7	2	12.8 W	S
552890.7	6904699	1214.7	29	0.1	0	31	2.2	15.8	8.8	60.3	2	6.6 X	S?
553197.1	6903858	1189.9	29	0.6	0	0	9.6	23	18.4	37.3	1.2	7.2 Y	D
553246.6	6903735	1186.1	29	1	21.3	0	8.1	9.7	21.5	11.3	1.8	1.7 Z	D
553750.8	6902483	1144.4	29	0.6	4.9	0	8.4	17.7	14.2	25	0.5	4 AA	B?
LINE 1	1456												
557069.1	6893776	6342.1	53	5.2	22.3	0	17.4	6.9	39.1	35.3	4.1	14.6 A	D
LINE 1	1460												
544928	6926380	1981.6	29	2.2	18.6	0	17.9	13.9	43.2	35	4.4	14.5 A	D
545017.6	6926129	1988.8	29	9.7	17.9	0	33.1	9.7	33.4	21.5	14.1	13.1 B	D
545229.3	6925549	2006.8	29	5.2	13.8	0	34.9	16.3	87.5	35.2	36.4	36.6 C	D
545530.4	6924783	2033.2	29	1.8	16.7	1	17.4	15.4	47	78.1	9.1	10.6 D	D

545598	6924611	2038.6	29	2.6	18.7	0	19.9	13.7	32.2	49.2	3.2	11.7 E	D
545763.2	6924219	2051.2	29	3.7	9.8	1	37.4	23.2	23.9	6.7	2	6.1 F	D
545845.4	6924048	2056.3	29	0.4	9.7	2	4.2	11.5	76.4	29	21.7	29.5 G	D?
546039.3	6923565	2069.7	29	3.2	9.4	0	35.2	24.3	70	84.3	11.1	26.6 H	D
546210.6	6923090	2082	29	5.2	13.4	4	35.6	16.8	76.8	77.7	0.2	32.7 I	D
546461.6	6922428	2098.1	29	3.8	19.5	3	23.1	12.3	31.7	21.7	3.5	9.3 J	D
546659.5	6921975	2109.1	29	1.7	12.2	0	20	20.1	100	86.9	7.7	29.4 K	S?
547105.1	6920720	2139.6	29	0.5	9.6	0	6.5	14.6	67.7	44	18.5	24.6 L	B?
547144.2	6920615	2142.2	29	0.1	26.2	0	0	12	67.7	33	18.5	24.6 M	B?
547229	6920383	2148	29	2.6	12.7	0	26.2	19.8	60.5	13.9	13.9	23.1 N	D
550132.2	6912951	2353	29	0.5	6	0	6.7	16.7	6.7	29.2	1.1	3.3 O	D
550491.4	6912029	2377.2	29	0.7	2.6	0	12.3	26.1	22	28.5	0	5.6 P	D
550760.5	6911266	2396	29	0.6	18.1	6	5.6	10.6	2.2	6.2	2.3	0.4 Q	B?
550837.3	6911059	2401	29	1	22.7	0	8.6	10.4	20.9	36.2	2.4	0 R	D
552309.8	6907369	2493.9	29	0.5	2.7	0	8.5	21.4	30.5	61.4	3.2	12.1 S	S
556040.8	6897691	2765.6	29	0.3	6.3	0	3.4	11.5	4.6	9.4	0.4	1.4 T	D
557505.7	6893935	2866.4	29	1.2	9.2	0	16.9	22.5	75.5	106.7	4.6	23.7 U	S
LINE 1	1470												
545305.1	6926478	4254.2	29	1.5	0.6	0	24.4	28.2	77.7	134.4	12.3	30.7 A	B
545385.4	6926272	4248.2	29	4.1	0	0	54.6	34.5	89.7	40.4	26.5	35.4 B	D
545752.9	6925384	4221.7	29	1	16.7	2	8.6	10.3	13.6	24.3	1	5.3 C	B?
545879.9	6925053	4209.6	29	1.4	15.6	2	11.5	11.5	26.6	57.7	1	10 D	B?
545954.7	6924872	4202.6	29	8.9	18.8	0	22.8	6.5	3.3	3.9	1	0 E	D
546295.7	6923908	4170.2	29	999	28.7	0	19.9	0	65.2	49.8	23.9	21.7 F	D
546342.7	6923791	4167	29	3.1	11.4	1	22.8	14.3	50	4.4	23.9	17.6 G	D
546544.3	6923321	4153.8	29	999	32.7	3	16.8	0.1	3.3	0	1	0 H	D
546597.1	6923185	4150	29	1.6	2.7	0	22.3	24.5	79.3	51.7	17.4	28.9 I	B
547121.2	6921813	4111.5	29	1.6	0	0	30.4	36.8	114	90	7.3	32.5 J	D
547321.9	6921300	4097.2	29	1	6.9	16	12.1	17	55.1	80.3	2.9	17.5 K	S?
547343.7	6921248	4095.7	29	0.6	0	0	9.2	21.4	55.1	80.3	2.9	17.5 L	S?
547399.5	6921106	4091.7	29	0.5	8.6	0	4.9	10.7	3.3	0	3.1	5.2 M	B?
547470	6920919	4086.5	29	1.1	0	1	24.9	38.2	39.3	70.9	2.8	12.4 N	B?
550103.6	6914166	3868.6	29	0.8	11.1	0	8.1	12.6	7.4	36.4	1.2	5.4 O	S
550626.3	6912751	3814.5	29	0.3	0	0	5.5	28.7	26.3	79.1	2	11.7 P	S?
550754.6	6912424	3804	29	0.6	0	0	12.5	29.4	36.4	104	1.3	16.6 Q	S
553038.7	6906518	3629.6	29	0.4	2.5	1	4.8	12.8	4.4	18.9	1.6	2.2 R	S?
554644.9	6902423	3502.8	29	0.6	0	0	11.1	27.2	16.9	48.8	1.6	7.5 S	D

555148.6	6901101	3463.8	29	0.1	20	0	0.1	12.9	20.3	101.4	1.2	14.3 T	S?
555422.6	6900415	3433.2	29	0.5	4.2	0	6.5	14.2	13.1	27.7	0.9	4.2 U	S?
LINE 1	1481												
556218.4	6899441	6035.1	29	0.5	0	0	6.8	16.3	15.7	42.7	1.8	5.1 A	D
558063	6894785	6162.4	29	0.3	0	0	4.2	16.2	21.8	44	1.7	7.4 B	S?
558263.6	6894237	6177.6	29	0.7	0	2	13.7	29	0	92	2.5	0.3 C	S?
558311.8	6894075	6182.2	29	1.5	1.4	0	17.4	18.8	71.9	3	3.3	23.6 D	S
LINE 1	1486												
545701	6926544	2561.2	53	999	16.8	0	36.9	0	77.4	110	20.1	31.8 A	D
546084.1	6925583	2531.6	53	2.2	11.7	3	19.6	15.3	34.1	34.6	5.4	8.9 B	D
546205.3	6925267	2521.2	53	2.3	9.4	2	22.1	17.6	78.3	76	0	27.3 C	D
546579.1	6924246	2479.7	53	3	2.9	14	37.1	26.7	1.2	35.1	0	0.5 D	B?
546620.7	6924145	2476.2	53	5.6	0	5	79.4	42.9	256.5	105.4	30.9	80.1 E	B
546648.8	6924078	2473.9	53	5.5	0	5	62.9	32.7	256.5	105.4	30.9	80.1 F	B?
546777.3	6923781	2463.7	53	8.2	14.3	2	29.4	9.5	80.7	35.3	7.3	24 G	B
546969.6	6923307	2447.9	53	22.2	9.3	0	44	7.9	75.1	19.4	17.5	31 H	D
547470.6	6921968	2405.9	53	1.8	6.5	0	21.5	20.9	7.3	40.6	0	7.8 I	B?
547878.4	6920945	2373	53	0.6	6.1	4	7.7	15.4	32.5	51	4.4	0.5 J	D
LINE 1	1490												
546400.1	6925891	7586.9	29	999	0	1	15.4	0	29.8	38.7	0	8.1 A	D
546764.4	6925003	7558.3	29	2.3	0	2	26.4	21.5	83.2	94.5	10.8	29.8 B	D
546793.9	6924922	7555.6	29	3.6	0	0	28.2	16.7	66.2	0	18.5	23 C	D
546911.1	6924531	7542.7	29	1.2	0	0	18.6	25.7	63.7	69.2	3.8	14.5 D	D
546974.4	6924349	7537.7	29	2	0	0	31.1	30.2	44.7	70.1	1.4	14.9 E	D
547022	6924225	7534.3	29	5.7	0	0	21.1	8.1	0.1	1.5	8.6	0.3 F	D
547062.8	6924120	7531.4	29	2.3	0	3	25.7	21.3	25.8	33.9	8.6	9.9 G	B
547131.9	6923946	7526.5	29	1.5	0	0	18.2	20.1	43.5	56.9	0	12.4 H	B
547656.3	6922606	7490.1	29	0.5	0	1	6.7	15.2	39.7	47.5	0	10.7 I	D
548065.7	6921548	7460.7	29	0.9	0	2	14	21.8	77.6	58.7	4.6	22.6 J	B?
548214	6921098	7448.2	29	0.7	0	0	8.6	14.8	0	17.2	2.4	2.9 K	B?
548537.4	6920292	7424.5	29	0.7	0	0	9.8	18.8	15.1	29.6	1	6.1 L	S?
556461.3	6899928	6753.7	29	0.6	0	0	10.8	27.4	21.2	78.9	0.6	11 M	B?
558711.1	6894113	6552	29	1.1	0	0	20.9	30.7	35.7	45.2	3.5	10.6 N	D
LINE 1	1500												
547080.4	6925258	7886.5	29	1.7	11.7	1	19.4	18.9	49.6	26.4	5.5	17.1 A	D
547129	6925113	7890.1	29	1.3	17.3	0	11.9	13.2	49.6	44.3	5.5	17.1 B	B?
547210.3	6924875	7895.9	29	3.2	13	0	27	17.2	33.8	13	5.5	10.1 C	D

547316.8	6924575	7903.3	29	4.1	10.4	0	34.8	19.5	60.4	71.6	0	19.6 D	D
547407.8	6924352	7908.9	29	3.7	17.4	3	23.3	12.7	0	0	6.1	0 E	D
547533.7	6924068	7916.1	29	1.1	20	3	9.4	11.2	27.7	49.5	2.4	10.6 F	B?
547615.6	6923886	7920.9	29	0.8	17.5	0	7.8	11.6	29.2	31.2	4.2	9 G	B
547913.6	6923038	7941.9	29	7.6	29.3	0	16.9	5	52.7	26.6	18.3	22.5 H	B
547996.5	6922803	7947.6	29	7.4	24.9	0	20.5	6.5	147.1	49.6	78.5	62.7 I	B
548420.6	6921825	7972.3	29	0.1	0	4	0.7	8.5	66.8	35.1	13.4	22 J	B
548487.6	6921654	7976.5	29	0.5	18	4	4.9	9.5	55.6	38.6	0.5	14.2 K	B?
549124.1	6919953	8025.5	29	0.6	1.7	5	10.3	23.2	15.2	70.7	0.7	10.1 L	S?
550176.9	6917286	8098.9	29	0.2	0	1	3.6	16.1	24.4	44.7	2.9	13.2 M	S?
554983.8	6904875	8443.5	29	0.3	2.4	0	4	13.6	4.5	19.2	0.7	4 N	S?
556532.8	6900912	8565.6	29	0.2	0	0	3.2	20.1	15.7	54.4	2.6	7.8 O	B?
556574.3	6900813	8568.5	29	0.3	0	0	4.5	20.9	15.7	54.4	2.5	7.8 P	B?
556821.3	6900184	8589.9	29	0.3	12.6	0	3.1	8.5	0	0	0.5	0 Q	S?
LINE 1	1510												
547401.2	6925478	10105 4 29		1.1	7.3	0	14.1	18.6	23.8	28.4	0	8.1 A	S?
547463.8	6925314	10100 3 29		2.5	2.1	0	35.1	29.4	77.7	28.1	11.8	21.8 B	D
547617.7	6924927	10088 4 29		6.8	8.6	0	38.9	15.3	63.8	34.8	0	23.6 C	D
547694.4	6924716	10082 1 29		17.5	1.9	0	72.3	16.9	85.4	3.5	52.5	47.9 D	D
547736.4	6924604	10078 9 29		6.8	0	0	102.8	51.2	129.6	76.1	52.5	65.3 E	D
547820.4	6924383	10072 6 29		999	25	11	25.1	0	65.9	101.9	6.4	22.2 F	B?
547948.4	6924039	10062 7 29		1.7	0	0	44.1	56.2	201.2	157.7	0	63.5 G	B
548047.3	6923801	10056 0 29		6.2	22.1	0	19.3	6.9	56.4	15.2	123.4	14 H	D
548203.4	6923354	10043 8 29		2.4	2.9	0	33	27.8	106.9	97.9	80.2	54.7 I	D
548297.9	6923126	10037 4 29		33.3	25.6	0	19.7	2.2	60.6	72.5	0.3	21.9 J	D
548450.4	6922747	10026 6 29		1.9	4.6	4	24.9	24.3	150.9	146.5	3.2	42.3 K	B?
548618.9	6922315	10014 6 29		0.5	0	0	8.6	22.9	0.1	35.9	18.1	29.9 L	D
548703.4	6922097	10008 6 29		3.3	3.5	38	38.5	26.2	143.3	123.9	0.6	46 M	E
548939.3	6921468	9991.7 29		0.8	2.1	88	13.7	23.3	34.7	29.3	2.8	9.5 N	B?
551211.1	6915637	9803.1 29		0.3	0	0	5.6	20	18.4	84.5	0.4	11.7 O	S?
552690.8	6911904	9649.9 29		0.6	0.4	0	9.4	20.6	53	89.6	0	17.8 P	S
554630.6	6906862	9509.3 29		0.5	0.4	0	6.2	16.5	10.9	37.7	1.2	5 Q	D
555205.3	6905421	9468.2 29		0.5	4.8	0	5.8	13.7	8.8	20.1	2.4	6.3 R	D
556585.2	6901885	9346.2 29		0.1	0	0	1.9	23	21.5	33.3	2.2	2.1 S	B?
559321.9	6894848	9124 29		0.1	10.3	0	0.2	5.7	0.5	20.2	1.7	0.8 T	B?
559378.4	6894704	9118.5 29		0.1	21.4	1	0	11.5	18.4	47.2	2.3	7.2 U	B?
559564.2	6894197	9100.3 29		1.3	0	1	46.7	76.3	130.1	223	7.2	47.1 V	B?

560020.8	6892974	9052.9	29	4.4	49.6	0	6.4	2.2	47.9	189.2	1.1	28.1 W	S
560728	6891160	8984.5	29	0.3	0	1	7.8	32.8	18.1	63.9	1.4	8.9 X	B?
LINE 1	1520												
547482.5	6926422	10220 9 29		0.8	0	0	19.6	38.9	49.2	112.1	3.2	20.6 A	S?
547991.5	6925213	10251 8 29		0.4	152.1	2	0.3	0.3	6.6	0	3	2.4 B	D
548133.5	6924785	10262 3 29		0.1	25.7	0	0	2.1	85.1	56.4	53.2	34.6 C	D
548495.7	6923808	10285 5 29		1.8	0	29	40.6	47.8	74.5	129.6	0.1	18.5 D	S?
548600.2	6923543	10291 7 29		4.9	8.2	0	45.5	23.8	53.6	29.6	11.6	18.7 E	D
548708.1	6923247	10298 7 29		2.3	10.6	11	26.4	22	64.7	44.9	3.2	18.6 F	D
548886.1	6922768	10310 5 29		0.9	26	0	6.7	8.5	14.8	19.7	7.3	6.6 G	D
549810.1	6920293	10368 4 29		0.5	0	0	8.8	24.3	8.3	53	1.5	6.6 H	D
550711.4	6918134	10424 1 29		0.1	0	17	1.1	23.8	26.6	73.5	2.5	13 I	S?
555416.6	6905972	10728 8 29		0.8	19.5	0	7.1	10.9	10.9	23.3	0.9	3.9 J	B?
555516.5	6905752	10733 7 29		0.5	16.5	0	4.9	10.1	1.5	3.5	1.1	1.3 K	B?
556713.6	6902525	10813 8 29		0.5	0	0	9.1	26.8	18	70.7	1	8.8 L	D
558396.9	6898232	10926 3 29		0.3	9.4	0	3.4	10.2	18.9	23.5	1	4.4 M	B?
559956.4	6894197	11030 0 29		1.6	10.9	0	20	21	81.6	80.9	5.8	24.6 N	B?
LINE 1	1530												
548111.9	6925861	1817.4 30		3.6	0	0	32.9	20	72.5	58	13.4	28.7 A	D
548490.6	6924871	1787.4 30		1.1	0.8	0	10.7	13.6	66.1	102.7	11.6	25 B	B
548904.9	6923888	1756 30		9	0	0	65.1	23.7	141.7	67.6	31.8	51.4 C	D
549275.3	6922985	1728.9 30		1.1	0	0	19.5	28.9	49.8	68.7	12.3	17.7 D	S?
549657.6	6921931	1698 30		0.6	0	0	6.8	13.2	36.9	82.1	2.1	13.4 E	B?
550970.4	6918632	1591 30		0.8	0	1	15.3	28.3	33.4	74.3	1.3	12.2 F	S?
552108.9	6915638	1469.2 30		0.4	0	0	4.9	14.1	9.2	37	0.7	4.5 G	D
555707.6	6906286	1140.7 30		0.6	12.4	0	4.4	6.8	6.2	5.6	1.3	1.5 H	S?
557622.6	6901378	978.8 30		0.1	0	0	1.3	8.5	10.2	48.1	0.3	8.1 I	S?
557774.4	6900988	963 30		0.1	9.5	0	0	13.5	10.7	69.6	1.2	10 J	S?
560433.5	6894207	700.3 30		0.8	0	0	16.1	29.2	25.5	47.4	0	10.5 K	D
560503.2	6894051	694.8 30		1.3	0	0	24.7	33.4	25.5	32	5.1	0 L	D
LINE 1	1540												
548587.8	6925788	1973 30		0.9	1.4	18	17.9	33.1	59.2	107.6	1.5	19 A	S?
549189.3	6924219	2017.6 30		12.9	8.7	0	59.1	16.2	136.4	100.3	23.2	44.5 B	D
549245.3	6924073	2021.5 30		69.2	16.1	5	41.9	3.5	136.4	0.2	23.2	44.5 C	D
551304.1	6918708	2170.8 30		0.7	8	0	10.1	19.4	50	55.7	3.4	14.4 D	D
555402.1	6908285	2457.4 30		0.2	0	0	3.3	14.2	35	45.9	1.2	12.7 E	D
558184.1	6901102	2667.9 30		0.4	0	0	7.5	24	35	52.1	1.3	9.6 F	D

559147.4	6898569	2765.8	30	0.5	2.7	1	7.4	19.6	15.2	77.3	1.6	10.5 G	B?
560895.7	6894012	2904.9	30	1.7	14.8	0	17.6	16.9	31	73.3	2.7	10.1 H	S?
LINE 1	1550												
548880.3	6926168	4229.7	30	3.8	19.6	0	18.2	9.2	37.1	37.1	7.4	13.5 A	D
549468.2	6924585	4171.4	30	999	22.7	0	27.7	0	56.6	95.4	1.8	16.1 B	S?
549785.5	6923783	4149.2	30	2.9	27.9	0	11.6	6.4	75.2	0	18.8	26.3 C	B?
549860	6923596	4144.2	30	0.9	12.3	0	9.1	13.1	75.2	42.1	18.8	26.3 D	B?
550091.9	6923070	4129.3	30	3.9	13.9	0	23.9	12.7	100	63.1	23.8	34.7 E	B?
550315.8	6922494	4112.7	30	3.2	0	0	50.7	38.2	90	48.8	17.6	33.6 F	D
551505.6	6919385	4011.8	30	1.3	0	0	35.5	55.6	63.4	104.2	4.1	21.8 G	D
551556.9	6919253	4007.9	30	0.3	0	0	4.2	17.5	10.3	71.2	3.1	3.6 H	D
551593.4	6919149	4004.9	30	1	1	29	16.9	26.2	10.3	71.2	0.1	0.1 I	D
551663.7	6918948	3999.4	30	13.3	10.7	0	39.5	9.7	105.3	80.7	23.4	38.5 J	D
554292.9	6912184	3768.1	30	0.9	8.7	0	10.5	15.8	53.1	94.1	3.8	20 K	B?
555267.8	6909618	3695.1	30	0.4	0	1	7.1	25.1	33.8	84.5	2.5	14.7 L	S?
555801.8	6908344	3660	30	0.7	5.5	4	9.4	17.2	23.4	50.7	1.7	10.5 M	S?
556344.3	6906842	3617.7	30	0.5	0	5	10.2	27.2	44.3	97.4	1.4	17.6 N	S?
557967.3	6902666	3485.8	30	0.6	0	0	11.2	26.8	13.9	23.4	0.7	3.1 O	D
558177.7	6902195	3469.8	30	0.8	0	0	16.4	30.1	35.6	113	0.3	18.4 P	S
558357.6	6901726	3454.3	30	0.7	0	0	13.1	28.2	27.1	64.1	0.2	11.7 Q	D
LINE 1	1560												
549768.6	6924973	4407	30	5.6	0	0	78.7	42.8	182.3	119.7	49.8	77.3 A	B?
549794.3	6924892	4409.4	30	0.1	8.5	0	0.2	4.8	182.3	119.7	49.8	77.3 B	B
550123.3	6924063	4433.1	30	0.9	0.2	3	16.6	28.9	33.5	73.9	3.4	7.1 C	D
550207.8	6923861	4438.6	30	0.5	0	32	8.1	21.9	9.7	89.4	0.6	12.2 D	S?
550447.3	6923161	4457.9	30	1.2	8.4	0	15.6	19.2	141.7	69.3	21	40.4 E	B?
551299.9	6921019	4523	30	1	1.3	0	17.7	28	31.5	67.8	1	12.5 F	D
551362.3	6920861	4527.3	30	1.2	8.8	0	15	18.6	11.9	28.8	1.6	3.4 G	D
551455.1	6920636	4533.5	30	2	17.8	0	15.2	11.9	32.6	25.7	0.8	0 H	S?
551563.4	6920362	4540.9	30	1.2	0	0	24.1	35.9	87.1	129.2	15.9	29.4 I	B
551637.3	6920161	4546.4	30	3.5	30.2	0	12.1	5.8	40.4	23	0	15.2 J	B
551992.4	6919265	4572.9	30	5.4	15.7	0	26.4	11.2	63.5	56.2	20.4	27.8 K	D
558309.1	6902899	5018	30	0.3	0.2	2	3.8	13.2	0	0	1.3	0 L	B?
LINE 1	1570												
549580	6926512	6496.9	30	2.7	28.2	0	12.2	7.2	88.1	2.2	35.9	38.2 A	B
549638.2	6926372	6492.4	30	5.2	0	0	153.6	105.8	374.1	231.9	100.2	153 7 B	B?
549884.7	6925764	6471.4	30	0.4	0	47	9.2	31.9	0	52.6	2.6	0 C	S?

550159.3	6925042	6441.5	30	1.4	1.5	0	27	34	61.6	74.9	17.5	22.7 D	B?
550551.9	6924062	6413.7	30	3.6	26.9	41	14.7	7.2	6	2.2	3.3	1.8 E	B?
550976.8	6922981	6382.6	30	3	25.1	0	14.6	8.3	39.2	36.8	16.6	17.2 F	D
551187.2	6922382	6362.1	30	0.9	7.5	2	12.5	19.7	25	63.7	0.8	10.1 G	S?
551518.6	6921538	6337.3	30	0.9	13.5	0	9.9	14.2	6.9	34.2	1	3.5 H	D
551604.1	6921332	6331.1	30	0.9	0	0	22.7	43.4	40.5	112.1	2.2	20 I	D
551650.2	6921238	6328.2	30	0.9	14.6	12	9.8	13.5	40.5	112.1	0	20 J	D
551967.3	6920427	6304	30	3	14.6	0	23.1	14.9	105.4	72.6	22.8	41.5 K	B
552403.3	6919299	6251.7	30	0.4	0	90	12.4	45.4	27.4	100.8	1.8	16.9 L	S?
555675.6	6910748	5942.9	30	1.4	0	3	36	51	131.1	210.7	4.8	43.6 M	S?
557171.9	6906852	5825	30	0.6	8.4	0	8	16	21.2	25.3	1.7	7.8 N	B?
558542.1	6903500	5726.3	30	1.1	7.4	0	15.3	21.2	62	116.7	1.6	18.4 O	S?
558580.1	6903411	5723.6	30	0.5	0	1	13.9	44.7	62	116.7	1.2	18.4 P	S?
558795.2	6902856	5704.6	30	0.6	11.6	1	6.6	13.1	7.3	50.9	0.6	9.3 Q	D
LINE 1	1580												
550030.8	6926513	6589.9	30	4.3	22.2	0	16.5	7.4	42.5	3.6	14.3	17.8 A	B?
550316.4	6925838	6612.1	30	0.6	0	67	13.5	31.6	32.8	97.2	7	15 B	S?
550579.9	6925107	6632.9	30	0.5	0	0	11.4	33.5	0.2	119.6	1.1	2.2 C	S?
550617.4	6924993	6635.9	30	1.2	17.1	20	10	10.7	80.3	142.4	3.1	25 D	S?
550650.4	6924897	6638.4	30	0.7	0	12	15.1	35.3	80.3	142.4	1.9	25 E	S?
550840.7	6924411	6651.2	30	0.5	0	29	7.8	21.5	13.5	78.4	0.9	9.9 F	S?
551186.6	6923546	6675.3	30	0.9	7.2	0	11.7	16.9	67.6	49	11.1	21 G	B?
551614.4	6922381	6704.1	30	0.7	0	0	17.6	39.4	22.4	104.9	1.7	16.4 H	S?
551984	6921472	6727.5	30	1.7	15.9	4	13.5	11.7	16.9	44.8	2.4	6.4 I	D
552207.4	6920865	6744	30	1	4	2	13.9	20.6	76.2	88.1	0	26.7 J	B?
552764.3	6919486	6794.6	30	0.6	0	79	10.4	24.7	19.8	76.8	2.4	12 K	S?
556025.3	6911025	7030.2	30	3.1	12.4	2	22.2	13.8	32.7	20.7	0	7.7 L	B?
556197.6	6910565	7041.7	30	1.6	6.6	0	19.1	19.8	38.4	0	4.8	0 M	B?
559057.8	6903250	7238.1	30	0.6	0	0	10.9	25.1	51	88.4	3.7	19.3 N	S?
561284.1	6897489	7421.7	30	0.4	6.8	0	4.3	10.7	13.5	22.3	0.8	5.3 O	D
LINE 1	1590												
550464.1	6926484	1654.4	31	0.1	0	58	0	36.7	51.4	161.9	9.1	24.3 A	S?
550602.1	6926051	1640.2	31	1.3	0	0	21.1	26.4	69.6	91.9	3.6	21.3 B	S?
550984	6924945	1606.1	31	1.9	0	499	20.3	17.9	69.5	48.3	39.6	13.5 C	L
551416.4	6924023	1578.4	31	117.4	0	0	22.1	1.1	181.3	101.5	26.9	65.9 D	B
551446.9	6923949	1576.2	31	2.1	0	0	49.8	53.2	181.3	101.5	26.9	65.9 E	B
551541.6	6923711	1569.2	31	0.2	0	48	3.5	22.8	71.4	66.6	8.2	24.5 F	S?

551569.9	6923637	1567.1	31	1.4	0	50	19.4	23.4	71.4	66.6	8.2	24.5 G	B?
551889.4	6922796	1543.2	31	0.7	0	13	14.4	30.1	12.8	15.2	0.5	2.9 H	B?
551947.8	6922633	1538.6	31	0.5	0	11	12.1	33.4	29.2	50.4	3.8	10.8 I	B?
552254.5	6921897	1516.1	31	0.8	0	0	9.6	14.6	38.6	43	4.5	13.5 J	S
552883.4	6920262	1454.2	31	0	0	8	2.2	3.7	2.8	10.1	0.2	0 K	S?
554568.8	6915975	1299.9	31	0.5	0	0	5.6	13.5	17.6	72.2	0.7	9.9 L	S?
555984.6	6912259	1195.2	31	0.5	0	0	12.2	35.5	0	0	9.1	0 M	B?
556330.8	6911308	1169.5	31	1.9	0	0	32.5	34.3	30.5	54.7	0	7.8 N	B?
556485.5	6910913	1159.7	31	1.2	0	1	21.9	30.4	70.8	91.6	3.3	22.9 O	S?
559298.7	6903703	968.5	31	0.3	0	0	5.8	20.5	8.7	41.6	1.1	4 P	B?
559393.8	6903475	961	31	0.5	0	0	6	14.7	0	0	4.5	0 Q	D
559479.3	6903263	954.5	31	0.9	0	0	17.7	31.6	43.6	87.1	5.4	19.8 R	S?
LINE 1	1600												
551404.5	6925267	1811.4	31	0.6	0	1	11.4	26.6	31.8	79.3	1.1	13.7 A	S
551595.8	6925067	1818.8	31	0.4	0	0	10	33.8	15.3	83.8	2.4	5.1 B	D
551705.3	6924288	1843	31	1.4	0	3	23.9	30.4	68.3	64.4	39.1	34.2 C	B?
551873.4	6923778	1859.9	31	1	0	0	16.3	24.1	32.1	80.1	6.8	10.4 D	D
551906.9	6923705	1862.2	31	0.9	0	0	11.3	17.8	32.1	80.1	3.5	10.4 E	B?
552021.4	6923491	1869.3	31	10.4	15.5	0	18.4	4.5	97.5	78.2	13	42.4 F	D
555869.3	6913616	2274.4	31	0.2	0	1	3.1	16.6	26.9	54.1	1.8	11 G	B?
556107.9	6913059	2290.2	31	0.9	9.8	0	7.3	9.3	15.6	2.4	0.9	5.1 H	D
556672.9	6911608	2332.4	31	1.2	0.1	0	13.4	16.2	18.7	23.4	2.8	5.4 I	S
556798.9	6911302	2341.5	31	0.8	0	1	16.2	31.8	33	90.2	0.2	14.2 J	S?
556880.1	6911105	2347.4	31	1.3	0	0	40.2	63.6	111	141.8	11.5	37.5 K	S?
557258.9	6910098	2376.4	31	0.3	0	0	6.5	27.9	6.1	33.8	0.2	3.3 L	B?
557301.3	6909995	2379.3	31	0.3	0	0	4.8	17.8	0.1	39.4	0.4	4.3 M	B?
LINE 1	1610												
551538	6925999	3961.9	31	0.2	0	0	4.4	24.7	11.7	46.8	2.6	4.9 A	S
551587.6	6925834	3955.1	31	0.3	0	0	5.8	24.9	10.7	56.5	1.1	8.5 B	S?
551676.9	6925522	3942.3	31	0.4	0	17	7.8	27.6	17.8	63.5	1.9	10.3 C	S
551871.8	6925128	3928.8	31	1	0	10	34.5	67.8	93.7	229.1	0.8	37.1 D	S?
552036.6	6924674	3914.7	31	3.7	0	0	80.5	61	305.8	198.9	1.1	108 9 E	B
552095.1	6924536	3910.4	31	7	16.6	0	34.4	12.8	160.9	37.9	55.3	76.9 F	B?
552282.3	6924108	3897.4	31	0.8	11.3	0	11.3	18.5	53.8	41.4	14.7	23.9 G	B
557216.4	6911332	3314.8	31	1.5	6.9	1	24.1	29.1	72.4	82.3	4.6	23 H	S?
559304.9	6905900	3164.7	31	0.4	0	1	8.2	24.9	24.3	82.1	0.4	11.4 I	B?
559518.1	6905399	3149.3	31	0.3	0	1	6.8	29.9	23.5	91.2	5.8	11.6 J	S?

559566.9	6905258	3145.2	31	0.4	0	0	7.1	24.2	23.5	65.4	0.9	11.4 K	S?
560060.2	6904031	3108.6	31	0.8	4.1	0	15	28.5	28.5	65.8	2.4	11.7 L	S
LINE 1	1620												
552269.6	6925177	4123.6	31	0.7	0	0	31.7	93.9	74.1	232.7	1.7	38 A	S
552346.4	6925002	4129.6	31	2.2	0	2	98.3	125.3	233.4	183.4	38.3	83 B	B
552444.9	6924768	4137.4	31	3.9	0	2	60	40.3	68.2	23.2	42.8	0 C	B?
552503.4	6924609	4142.3	31	4.9	0	1	34.5	16.8	140.4	130	42.8	33 D	B?
552555.3	6924462	4146.7	31	0.1	6.5	0	0	10.2	136.7	130	32.4	51.3 E	B?
552585.4	6924377	4149.2	31	3	0	0	62.9	53.4	136.7	94.3	32.4	51.3 F	B?
552760.4	6923930	4162.8	31	1.4	0	0	17.3	20	63.3	82.9	15.1	27.8 G	D
553328.5	6922523	4231.9	31	0.5	0	0	7.5	20	49.6	142	1.7	23.4 H	S
556953.9	6913058	4669.6	31	0.4	0	1	9.5	35.7	30.6	8.3	0.4	0 I	B?
557011.9	6912806	4677.1	31	0.2	0	3	5.2	38.3	0	8.3	0.9	24.3 J	D
557340.8	6912066	4702.1	31	0.7	0	0	15.7	32.6	0	15.9	3.6	3 K	B?
557422.5	6911776	4711.3	31	0.7	0	0	16.1	34.3	26.6	71.3	5.1	10.7 L	B?
559704.9	6906023	4887.4	31	0.4	0	2	9.7	31.7	36.1	60	1	11.6 M	S?
LINE 1	1630												
552189.4	6926490	6043.1	31	0.1	0	0	0.5	18.5	35.5	144	0.1	21.7 A	S?
552440	6925808	6019.6	31	0.3	0	0	8.4	37.4	13.1	89.5	0.9	13.5 B	S
552581.1	6925443	6006.9	31	0.5	0	9	11.8	39.3	4.7	87	2.8	11.1 C	S?
552737.8	6925062	5994.8	31	3.7	0	8	103.3	83.8	252.5	163.5	42.1	100 5 D	B
552785.1	6924949	5991.3	31	8.4	2.2	8	70.6	27.6	137	163.5	56	66.4 E	B?
552870.7	6924729	5984.6	31	1.5	0	0	40	53.4	235.3	106.9	43.2	73.2 F	B
552886.3	6924686	5983.3	31	999	17.9	0	40	0	235.3	106.9	43.5	73.2 G	B
552942.2	6924533	5978.7	31	11.4	17	0	31.1	8	0	81.9	2.8	0 H	B
553020.9	6924310	5971.9	31	999	25.6	5	27	0	0	122.7	2.8	0 I	E
553567.6	6922941	5922.9	31	0.3	0	4	12.1	66.3	55	214.5	1.3	33.9 J	S?
553683.3	6922663	5910.9	31	0.4	0	0	15.1	59.2	28.9	174.3	0	25.1 K	S?
553873.1	6922318	5897.9	31	0.3	0	13	7.1	34.7	0.1	69.3	2.5	11.6 L	B?
557275	6913422	5537.7	31	0.5	1.4	0	8.2	20	1.4	36.7	0	6.9 M	B?
557482.2	6912855	5522.1	31	0.8	8.2	0	10.3	17.7	27.4	51.3	1.1	9.7 N	S?
557672.1	6912389	5508.2	31	1.9	0	0	51.8	62.5	133.3	161.4	0.1	47.2 O	B?
557753.5	6912205	5502.7	31	2.2	0	0	41.8	40.7	140.2	143	15.9	48.9 P	B?
557838.4	6911967	5496	31	1.3	15.9	0	12.1	13.4	48.7	69	0.1	2.5 Q	B?
560322.7	6905537	5310.8	31	0.3	5.2	0	2.6	9.5	12	14.6	1	3 R	B?
LINE 1	1640												
552987.4	6925556	6208.4	31	0.6	0	13	9.9	23.6	16.1	73.1	1.5	10.7 A	S

553102.8	6925294	6216.2	31	0.6	12.2	0	4.8	7.5	0.6	7.6	0	0.9 B	E
553171.8	6925109	6221.6	31	44.7	0.7	0	43.5	4.8	10.5	209.6	0.7	1 C	B
553221.8	6924943	6226.4	31	3.4	0	0	47.4	33	194.3	155.2	45.6	81.1 D	B
553281.1	6924760	6231.7	31	4	0	0	37.4	21.8	231.2	168.5	44.4	85.2 E	B?
553432.3	6924390	6242.4	31	1.5	0	5	31.9	40.1	75	100.9	4.6	24.9 F	B?
553823.8	6923365	6276.8	31	0.6	0	0	7.8	16.1	51.3	118.9	1.3	18.6 G	S
554200.1	6922382	6311.1	31	0.8	0	7	11.8	21.4	15.3	43.6	0.9	6.3 H	S?
555741.4	6918454	6452.6	31	0.4	0	9	12.4	46.7	61.4	184.2	2	29.1 I	S?
557655.9	6913490	6591.5	31	0.6	0	0	10	23.6	25.3	71.4	1.2	10.3 J	B?
557967.6	6912671	6616.7	31	1.2	0	0	18.5	23.8	34.4	59	0.1	15.2 K	D
558152.3	6912289	6629	31	1.1	0	1	16.8	22.6	185.2	147.5	21.6	65 L	S
560062.6	6907307	6778	31	1	4.3	1	9.6	12.4	0	0	1	0 M	D
560140.1	6907094	6784.2	31	0.3	0	0	6	22.9	24.8	31.6	0.8	5.8 N	B?
LINE 1	1650												
553497.1	6925364	7697.1	31	16.2	35.2	0	13.3	2.2	0	0	0	0 A	B
553548.3	6925240	7693.3	31	1.6	10.3	2	18	18.2	83.1	105.2	13.1	32.1 B	B?
553591.6	6925131	7690.1	31	3	8	0	30.6	21.2	83.1	0	13.1	32.1 C	B?
553712.9	6924745	7678.8	31	2.8	1.9	4	41.2	32.7	70.5	42	1.2	19.9 D	D
553751.6	6924626	7675.3	31	0.9	0	13	20.3	38.9	60.6	41.4	1.2	16 E	B?
553816.9	6924443	7670	31	0.7	0	13	15	33	0	56.3	1.2	0 F	S?
554215.6	6923447	7642	31	0	0	30	2.2	16.3	0	74	1.2	8.1 G	M
558458.2	6912554	7305.1	31	2.4	16.9	0	17.6	12.5	147.6	90.2	19	50.1 H	S
558494.3	6912447	7302.3	31	2.6	4.5	0	33.6	27.1	1	86.7	19	1 I	S
560226.1	6907965	7180.8	31	0.4	6.6	0	3.9	10.9	13.2	50.1	0	7.7 J	D
LINE 1	1660												
553761.9	6925703	7907.7	31	0.8	0	0	13.3	23.7	36.3	75.1	2.1	19.2 A	B?
553822.7	6925527	7912.8	31	1.4	0	0	33.8	46	45.4	61.5	4.6	17.3 B	D
553870.3	6925424	7916	31	1.6	5	0	14.3	13.4	49.2	0.1	0	0 C	B?
554061.4	6925037	7928	31	0.7	0	0	10.7	20.3	11.4	21.6	2.4	4.6 D	S?
554230.3	6924605	7940	31	0.3	0	31	5.1	20.4	50.2	128.2	2.2	19.8 E	S?
554261.9	6924509	7942.6	31	0.5	0	0	13.3	37.8	50.2	128.2	1.1	19.8 F	S?
558800.2	6912792	8254	31	1.2	0	1	18.4	25.4	218.5	192.7	20.5	76.2 G	S?
560570.1	6908213	8381.4	31	0.5	0	1	8.4	20.3	0	37.5	0.2	3.9 H	S
561546.3	6905644	8451	31	0.4	0	0	7.6	26	36.1	90.8	2	15.8 I	B?
LINE 1	1670												
553903.6	6926529	9181.2	31	1.3	16.7	0	11	11.4	55.5	96	1.3	19.8 A	B?
554555.6	6924799	9123.6	31	0.6	0	0	12	29.9	66.8	145.9	0.3	24.1 B	S

555178	6923262	9081.7	31	0.4	0	8	7.6	22.2	18.5	51.8	2	8.7 C	S?
557472.3	6917346	8906.2	31	0.5	0	0	9.4	24.5	15.5	53.4	1.6	9.3 D	S?
558867.5	6913780	8799.8	31	0.1	21.1	2	0	32.5	0	93.2	3.1	17.7 E	D
558926.5	6913618	8795.4	31	2.4	13	2	19.5	14.3	49.8	100.9	0	17.7 F	S?
559081.9	6913164	8781.6	31	1.8	0.1	2	30.8	32.4	192.4	218.6	17.7	62.6 G	S?
559137.6	6913015	8777.2	31	3	0	0	55.7	46	192.4	121.8	17.7	62.6 H	S
LINE 1	1680												
559337.7	6913759	9677.9	31	999	42.8	0	10.7	0	38.1	59	0	13.2 A	S?
559493.1	6913293	9690.9	31	3.1	22.5	0	13.1	7	10.2	20.1	7.5	4.3 B	S
561068.8	6909246	9810.1	31	0.4	0	1	4.7	14.5	14.1	7.1	0.3	4.3 C	B?
561214.4	6908831	9822.3	31	0.3	0	0	4.3	17.6	19.1	55.5	2.1	9.2 D	B?
561530.3	6907929	9849.1	31	0.2	0	0	4.5	22.2	17.8	58.9	0.5	9.5 E	B?
LINE 1	1690												
559603.4	6914025	6583.7	44	0.5	0	12	6.8	15.6	27.2	25.2	7.6	10.6 A	S?
559715.2	6913752	6593.6	44	1.3	0	0	19.7	24.8	75.1	82.9	3.2	26.4 B	S?
559775.8	6913636	6598	44	1.8	0	1	17.2	15.6	75.1	0.9	1.3	26.4 C	S?
LINE 1	1700												
556719.4	6922626	5968.6	44	1.1	0	0	17.7	25	48.5	71.1	0.7	15.1 A	S
560070.4	6913899	5675.5	44	1.1	0	1	18.1	25.9	22.1	43.1	1.1	9.7 B	D
LINE 1	1710												
556910.1	6923166	5040.1	44	0.4	5.8	3	6	19.2	19.8	44.7	1.6	11.3 A	S?
560385.4	6914263	5350.4	44	0.9	0	0	31	64.2	146.8	256.1	4.1	57.9 B	S?
560649.1	6913633	5372.3	44	0.1	31.3	0	0	7.4	17.3	38.6	0.1	10.4 C	S?
LINE 1	1720												
559817.9	6916786	4450.7	44	0.3	0	0	7.5	34.8	41.4	110.5	1.5	20.2 A	S
559870.5	6916666	4446.2	44	0.6	0	0	12.6	33.7	35.9	109.5	1	17.8 B	S
560600.2	6914833	4378.8	44	1.5	0	0	19.6	21.8	37.3	36.2	3.8	11.5 C	S?
560673.6	6914628	4372.2	44	0.5	0	0	12.3	40.7	35.9	93.3	5.2	22.7 D	S
560715.1	6914489	4367.7	44	3.7	16.7	2	15.7	7.8	34.1	16.3	0.3	5 E	S?
LINE 1	1730												
561062.1	6914860	4074	44	1.6	3.5	0	24.8	26.9	67	103.6	1.5	23.2 A	S?
LINE 1	1740												
560232.4	6918044	3202.7	44	0.5	0	0	7.8	18.4	33	75	2.3	17 A	S?
560355.7	6917712	3189.6	44	0.4	0	0	8.1	27.1	10.2	65.3	2.1	10.8 B	S?
561342.7	6915143	3098.3	44	0.8	0	5	10.5	16.4	29.1	36	0	10.2 C	S?
LINE 1	1750												
559217.2	6921758	2821.4	44	0.5	0	0	10.4	33.1	37.3	93.8	0.5	17.2 A	S?

561539.3	6915706	3036.7	44	0.7	0	0	13.3	25.6	34.8	59.2	3.3	13.7 B	S?
561650.6	6915446	3045.2	44	0.9	0	6	16	28.5	57.2	117.5	3.2	24.3 C	S?
LINE 1	1770												
558910.3	6924730	2037.7	44	0.5	0	0	9	22.5	22.1	54.1	2	10.9 A	S
559386.4	6923552	2078.9	44	0.2	0	1	3.3	17.9	6.5	0	1.4	5.5 B	B?
559849.8	6922291	2124.3	44	0.8	0	11	10	15.9	17.7	28.7	0.7	6.9 C	B?
560704.8	6920156	2190.3	44	0.6	0	0	9.3	22	28.6	68.5	2.2	15.8 D	B?
LINE 1	1786												
559689.2	6923879	3277.8	53	0.3	0	0	5.4	20.6	25.2	103.3	1.2	14.2 A	S
560272.5	6922338	3330.3	53	0.8	0	0	8.9	13.3	32.7	0	2.3	7.5 B	S?
TIE LINE	19018												
539792.8	6920376	2723.3	55	999	35.2	1	22.1	0.1	54.3	55.3	8.8	19.2 A	D
540467.4	6920632	2699.9	55	999	34.3	0	23	0	86.3	0	29	36.1 B	D
540651.5	6920703	2693.8	55	5.9	17.9	0	33.6	14.2	65.4	71.7	7.2	8.8 C	D
540956.9	6920811	2684.3	55	999	52.7	0	11	0	31.8	0.1	9.3	11.5 D	D
544436	6922153	2568.4	55	0.6	4	0	10.1	24.6	33.9	77.4	5.7	15.6 E	B
544724.4	6922281	2558.9	55	0.5	5.3	0	8.9	21.8	44.4	75.5	16	23.7 F	B?
546310.8	6922908	2507.3	55	4.6	46.4	0	9.2	3.4	23.9	20.9	22	18.7 G	B?
547890.4	6923452	2458.4	55	253.9	36.3	0	19.2	0.6	0	4	0	0 H	D
548377.9	6923708	2441.8	55	4	15.4	29	32.9	18.6	224.5	55.9	87.4	89.8 I	B?
548971.3	6923917	2422.3	55	215	373.4	5	0	0	81.6	63.4	0	30.6 J	D?
556008.1	6926631	2141.1	55	0.5	0	0	9.6	29.4	64.6	148.9	1.7	23.8 K	S
TIE LINE	19020												
539955.5	6915302	2187.4	29	0.7	0	0	11	23	31	49.8	2.8	11 A	S?
540246.2	6915411	2179.7	29	999	30.2	0	13	0	36.6	39.2	1.5	9.4 B	S?
540745.3	6915609	2166.4	29	2.5	0	0	36.1	30	117.1	79.1	19.4	44.7 C	B?
541720.9	6915993	2139.8	29	3	0	0	54.2	44.4	110.7	126.2	0.7	30.9 D	B?
542426.1	6916265	2120.7	29	130	16.6	0	19.9	0.9	31.5	0	11.6	14.9 E	D
543692.1	6916757	2088.1	29	3.5	15.1	0	13.9	6.9	12	0	1.5	3.9 F	D
552623.6	6920191	1841.4	29	0.3	0	0	3.7	14.9	6.9	25	0.5	3.7 G	B?
554219.9	6920814	1776.4	29	0.4	4.3	6	2.9	7.1	0.9	0.1	0.4	1 H	B?
559780.5	6922938	1596	29	0.1	0	0	0.9	13.7	0	0	3.3	0 I	B?
TIE LINE	19030												
520274.6	6902264	6077.4	11	1.4	46.3	0	3	2	104.8	56.3	29.4	36.5 A	S?
520761.4	6902470	6097.5	11	0.1	13.4	0	0	0.9	27	26.4	5.1	10.1 B	B?
521150.2	6902776	6116.5	11	0.6	0	0	7.1	15.3	60.8	63.7	10.3	20.5 C	B?
521773.2	6903004	6136.5	11	1.5	0	0	26.6	32.4	97.2	88.5	5.2	30.4 D	B

522112.8	6903124	6146.9	11	0.7	0	0	6.8	11.2	59.2	31.8	5.2	23.3 E	B?
522393.1	6903218	6155.7	11	1.1	0	0	10.7	13.1	90.2	91.7	15.8	29.6 F	B
522524.2	6903306	6160.7	11	0.1	6.2	0	0.4	2	82.7	85.4	18.1	28.2 G	B?
522968.3	6903545	6176.4	11	0.8	8.7	0	5.6	7.6	74	36.8	26.2	31.4 H	B
523175.4	6903594	6182.4	11	3.9	8.8	0	15.9	7.5	71.5	14.6	5.5	10 I	B
523397.2	6903674	6188.9	11	1.1	0	0	18.4	27.2	104.7	77.5	24.6	39.9 J	B
523906.4	6903852	6203.9	11	0.6	0	0	5.6	10.7	60.7	121.2	4.8	21 K	B?
524756.6	6904186	6229.5	11	1.1	0	0	11.3	14.5	11.8	0	5	1.5 L	D
524929.1	6904240	6234.3	11	0.9	0	0	15.3	26.9	22.5	6	1.6	0.8 M	B?
525177.4	6904308	6241.1	11	0.8	9	0	5.4	7.5	13.7	59.6	0	6.7 N	D
525285.9	6904346	6244.2	11	0.2	0	0	3	12.8	48.8	80	3.8	16.1 O	D
526001.7	6904659	6264.5	11	1	0	2	13.4	19.7	53.3	71	5.5	17.6 P	B?
526606.8	6904919	6281.9	11	0.6	0	3	7.4	14.5	29.6	68.4	2.6	7.6 Q	B?
531262.4	6906723	6420.8	11	0.5	0	0	6.5	15.2	18.5	53.9	1.8	8.4 R	B?
533410.8	6907578	6482.3	11	1.6	0	0	25.4	28	68.3	75.5	4.4	16.6 S	S?
535421.3	6908358	6538.1	11	1.3	0	91	12.4	13.8	27.8	48.7	2.2	9.8 T	B?
536738.3	6908833	6575.4	11	999	13.7	0	21.5	0	117.3	0	82.8	49.6 U	B
538105.6	6909387	6617.5	11	0.5	0	0	11.5	36.6	0	85.6	0	19.7 V	B
538913.4	6909664	6640.8	11	0.8	4.8	0	6.5	9.1	17	0.1	33.7	5.9 W	B?
539084.1	6909737	6645.9	11	1.1	0	0	20.4	29.3	29.9	47.4	0	19.1 X	D
539171.1	6909774	6648.5	11	0.4	0	0	3	7.8	24.8	55.5	8.8	7.9 Y	D
539356.3	6909861	6654.2	11	0.1	0	0	0.4	23	91.8	137.6	0	11.8 Z	D
539450.8	6909901	6657.1	11	1.6	0	0	31.7	38.2	91.8	137.6	5.5	24.8 AA	D
543613.8	6911508	6769.7	11	1.5	4.5	0	11.4	10.4	32	44.7	2.3	12.8 AB	D
550705.2	6914250	6968.8	11	2	0	0	17.2	14	38	33.2	5.7	10.6 AC	B?
552252.7	6914843	7033.9	11	0.6	0	0	6.9	14.6	17.2	46.7	1.7	8.9 AD	S?
552401.8	6914906	7038.6	11	0.7	0	10	7	12	14.7	27.9	0.4	4.8 AE	S?
553894.4	6915483	7087.5	11	0.2	0	48	3.2	20.2	0	33.4	0	4.2 AF	S?
554451.3	6915689	7104.4	11	0.7	0	0	8.3	15.2	24.1	59.7	1.2	8.8 AG	S?
556468.8	6916464	7192.4	11	0.4	0	0	8.9	27.8	22.4	60	1.4	7.9 AH	D
560117.4	6917882	7306	11	0.1	6.8	0	0	16.9	12.4	61.4	0.6	6.8 AI	S
560487.8	6918023	7319.1	11	0.2	0	8	3	17.5	14.9	69.2	0.4	9.1 AJ	D
560828.5	6918161	7330.1	11	0.2	0	28	1.9	11.2	16.7	54.2	0.1	7.9 AK	S?
561825.8	6918552	7369.4	11	0.2	0	0	2.7	17.6	13.3	50.4	0.8	8.2 AL	B?
TIE LINE	19040												
520607.3	6897370	5801	11	0.5	0	0	10.4	27.9	21.6	37.1	2.2	8.2 A	S?
534040.1	6902614	5465.9	11	0.1	0	0	0	13.4	1.6	3.4	3	0 B	B?

556902	6911449	4864.3	11	0.6	0	3	6.8	13.5	15.4	43.3	1.6	6.2 C	D
TIE LINE	19050												
522826.1	6893091	3426.1	11	0.8	0	0	32.6	82.2	83.8	170.8	0.2	26.5 A	B?
532438.4	6896851	3709.8	11	0.3	0	0	3.3	11.5	11.3	20.2	0.8	4.5 B	S?
560157	6907561	4505.7	11	0.6	0	0	11.7	29.9	12	21.2	1.5	3 C	D
560307.9	6907618	4509.9	11	0.2	0	0	2.4	12.5	12	0	2.1	3 D	D
561628.6	6908161	4548.5	11	0.4	0	0	3.5	9.8	10.7	0	0.3	0 E	D
TIE LINE	19060												
521368.5	6887320	2243.5	8	0.5	0	0	5.2	11.3	30.1	64.7	0.1	10.5 A	B?
528190.1	6889962	2058.4	8	0.4	0	0	5.7	19.5	23.1	77.3	5.4	11 B	S?
531887.4	6891418	1944.7	8	237.6	94.7	0	1.6	0	19.8	50.5	2.4	6.2 C	B?
532907.3	6891807	1913.6	8	0.5	0	11	11	31.3	62.4	70.6	2.9	9.2 D	D
533472.4	6892020	1889.9	8	519.8	103.4	418	1.4	0	0.2	50.5	0.7	8.4 E	M
533792.9	6892153	1876.2	8	0.3	0	290	4.1	15.4	0.2	20.1	0.7	2.2 F	S?
538856.3	6894109	1719.6	8	0.3	0	0	5.5	22.2	18.1	38.6	1.4	6 G	S?
541695.2	6895217	1632.8	8	0.3	0	0	5.1	17.7	25.7	59.5	0.9	9.9 H	B?
550699.1	6898706	1349.4	8	1	0	0	19.2	30.6	35.9	62.3	1.9	11.3 I	S?
551872.4	6899149	1309.6	8	0.1	0	0	1.8	22.7	13.5	30.7	0.6	5 J	D
558134.4	6901571	1119.9	8	0.9	0	1	16.5	27.3	26.1	69.8	2.5	10.4 K	S?
TIE LINE	19070												
520589.3	6881862	9849.7	7	0.7	1.9	26	8.7	14.9	69.4	69.5	6.6	19.1 A	S?
524111.1	6883238	9754.8	7	0.3	0	0	5.1	19.5	25.9	66.1	3.4	10.8 B	M
524375.7	6883347	9747.1	7	562.1	109	315	1.8	0	2.9	0	6.6	0.8 C	M
524681.3	6883442	9738.2	7	3.1	107.3	130	1.3	0.4	2.9	0	0.1	0.8 D	M
525317.4	6883696	9720.8	7	0.4	0	0	7.7	25.4	32	66.7	9.9	10.8 E	B?
525849.6	6883903	9705.8	7	556	110.7	489	1.7	0	2.9	0	0.3	1.2 F	M
526031.3	6883971	9700.6	7	0.4	0	0	7.3	27.4	50.4	78.1	12.7	15.2 G	S
527376.8	6884489	9663.1	7	0.8	0	0	17	34.1	112.8	160.1	9.9	32.3 H	S
527477.4	6884527	9660.1	7	1	0	0	24.2	41.7	112.8	0	9.9	32.3 I	S?
527898.1	6884686	9648.3	7	0.5	0	0	9.2	27.8	15.7	78.1	2	11 J	S?
528703.6	6885011	9625.8	7	0.2	0	0	2.4	16.4	3.2	19.5	0.9	2.8 K	B?
537081.6	6888256	9388.2	7	0.4	0	0	4.6	11.4	21.8	48.2	1.2	8.6 L	B?
548202.9	6892531	9095.4	7	1.3	1.7	0	15.1	18.1	27.1	53.7	2	9 M	D
TIE LINE	19080												
542027.2	6884986	7718	7	0.3	0	0	4.4	15.6	28.1	32	2.7	6.7 A	D
542803.7	6885288	7741.7	7	0.5	0	0	8.3	21.1	14.1	14.4	2	3.8 B	D
544692.4	6886010	7803.6	7	0.6	0	0	8.3	18.6	24.1	47.6	1.6	10.5 C	B?

547909.9	6887285	7893.6	7	0.6	0	1	9.3	20.9	56	92.7	5.3	18.1 D	B?
TIE LINE	19090												
520560.9	6871488	608	7	1.2	0	0	16.9	21.3	117	185.5	12.7	36.2 A	S?
521299.3	6871766	586	7	0.5	0	0	10.7	35.2	28.8	90.2	0	15.8 B	B?
523822.1	6872751	517.2	7	0.7	0	0	9.5	18.4	18.7	42.3	1	6.2 C	B?
529138.9	6874813	353.8	7	0.8	0	1	14	24.6	42	80.7	4	15.5 D	B?
530840.6	6875489	304.1	7	1.4	13.4	0	9.7	9.1	6.2	27.2	0	2.3 E	D
531498.8	6875746	285.1	7	1.1	0	0	18.9	28.2	35.3	57.7	4.4	10.3 F	D
533775.2	6876610	208	7	0.1	25.8	0	0.5	1.8	0	14.6	0	2.6 G	S
533964.4	6876684	201.2	7	1.3	2.8	0	13.6	15.5	31.2	84.2	3.7	20.4 H	S
534363.2	6876823	187.1	7	0.7	0	0	24	63.1	170.9	325.9	7.4	54.7 I	S?
534967.9	6877096	165.7	7	0.2	0	0	3.8	28.2	12.1	22.2	1.4	3 J	D
535250.6	6877209	155.1	7	0.7	0	1	33.1	92.8	83.5	220.9	3.4	36.5 K	D
TIE LINE	19096												
535235.6	6877218	433.5	53	0.8	0	0	17.4	34.8	42.9	92.3	2.9	16.8 A	D
536148	6877526	463.6	53	0.5	3.6	0	6.9	16.8	0	23.2	1.1	0 B	D
537908.7	6878229	521.5	53	0.6	0.9	0	8.8	21.1	40.8	88.6	3.5	16.9 C	B?
538020.3	6878265	525	53	0.5	0	0	8.4	22.6	40.8	12.9	3.5	16.9 D	B?
TIE LINE	19100												
521054.1	6866480	810	7	0.6	0	0	13.1	33.9	63.4	127.5	4.9	24.2 A	B?
522076.8	6866886	843.6	7	2.1	13.5	0	12.4	9.1	73.6	38.7	5	24.3 B	B?
522247.3	6866953	848.9	7	1.1	0	0	17.7	25.6	15.5	89.6	5.9	5.2 C	B?
522868.1	6867216	867.4	7	0.8	0	1	21.6	44	53.3	129.8	4.1	20.4 D	D
526764.3	6868731	974.9	7	0.9	0	0	12.8	21.1	30.7	67.4	1.5	9.9 E	B?
528022.1	6869208	1005.8	7	18	15.3	0	20.8	3.6	132.7	186.6	12.3	43.7 F	B?
529161	6869633	1034.4	7	1	0	0	21.1	35.3	69.2	92.6	1.5	19.6 G	B?
546551.7	6876366	1517.1	7	0.5	0.1	0	5.6	12.1	14.5	28.6	1.5	5.7 H	S?
547262.1	6876669	1541.1	7	0.4	0	0	6.4	21.8	28.7	63.1	3.4	10.1 I	S
TIE LINE	19101												
553208.4	6878996	1951	7	0.5	0	0	11	33.9	30.9	84.4	2.4	13.9 A	D
TIE LINE	19110												
522819.6	6861990	3271.8	7	999	39.9	0	19.2	0	145.3	8.9	12	48.7 A	B?
524750.5	6862747	3218.5	7	1.6	18	0	17.6	18	67.1	34	24.6	28.8 B	D
525280.1	6862949	3204.2	7	0.7	2.6	0	16.2	35.7	12.6	41.6	5	8.3 C	D
527420.6	6863740	3146.3	7	1.6	20	0	16.2	16.1	135.2	32.2	9.2	34.4 D	S?
528262.7	6864096	3121.2	7	1.7	0	0	53.2	71.9	12.6	101.7	0.2	4.9 E	D
528483.8	6864190	3114.5	7	1.6	30.4	0	10.6	9.3	15.4	32.2	5	5.5 F	B

529189.6	6864497	3095.4	7	1.3	0	0	44.5	71.2	179.7	247.7	17.8	58.2 G	B?
529826.2	6864743	3077.5	7	1.4	9.9	0	23.5	29.4	99.7	75.9	18.6	30.4 H	B
531257	6865280	3021.7	7	0.1	9.9	8	0.3	23	148.5	172.2	1.6	52.5 I	B?
531846.9	6865510	3003.4	7	2.3	0.7	0	62.5	66.9	184	158	15.7	51.8 J	B?
532226.9	6865659	2991.1	7	0.6	9.3	0	8.5	19.5	41.3	51.4	5.1	12.1 K	D
532740.6	6865854	2971.2	7	0.7	0	0	17.9	42.3	117	166.4	18.7	42.1 L	B?
532830.9	6865883	2967.8	7	999	24.8	0	39.7	0	117	8.9	18.7	42.1 M	B
533334.4	6866071	2950	7	1.5	0.7	0	43.3	60.8	287	250.2	18.6	72.8 N	S?
533664.4	6866215	2939.2	7	3.1	14.2	1	34	23.3	12.6	22	0.2	4.9 O	B?
534195.4	6866425	2922.3	7	1.4	7.9	1	26.2	33.8	164.7	121.1	17.1	47 P	B?
535087	6866756	2894.4	7	1.4	8.3	0	26.1	33	121.3	132.6	10.1	37.8 Q	B
535979.6	6867091	2869	7	1.7	7.4	0	31.5	36.6	184.5	175.9	15.9	58.5 R	B?
TIE LINE 19120													
523767.2	6857188	3618.5	7	1.2	0.2	0	23.9	34.4	28.3	80.9	2.1	7.5 A	S?
524194.4	6857371	3631.5	7	1.5	15.3	6	14.1	14	62.1	5.6	6.5	19.4 B	D
525380.8	6857827	3670.9	7	2.8	3	0	40.3	31.8	144.5	142.4	14.8	42.9 C	B?
525462.8	6857858	3673.2	7	1.4	0	0	37.4	53.3	62.1	110.2	14.8	42.9 D	B?
525686.5	6857943	3679.3	7	1.6	13.9	0	15.6	15.3	46	71.8	2.1	16.1 E	D
525855.8	6858007	3683.8	7	0.9	0	0	23.7	45.7	100.2	124.4	2.2	29.9 F	S
528263	6858960	3755.1	7	1.6	3.3	61	26.4	29.8	149.3	151.3	17	45.5 G	B?
531358.3	6860158	3838.2	7	0.8	0	0	15.2	30	64.4	109.3	6.2	21 H	S?
532347.8	6860527	3863.1	7	2.7	0	0	62.6	57.3	136.8	110.7	0.2	1.1 I	S?
532500.4	6860581	3867.1	7	0.1	0	0	1.2	24.7	136.8	99.4	20.4	34.5 J	S?
532968.8	6860747	3880.4	7	0.1	23.4	0	0	24.2	13.9	54.3	1.8	5.1 K	B?
533220.3	6860841	3886.9	7	3.4	0	8	67.8	53	125.6	84.5	19	37.4 L	S?
533424.3	6860923	3892.1	7	1.8	0	0	40.8	47.4	52.4	76.4	2.4	22.1 M	B?
533737.2	6861060	3900.1	7	1.3	0	0	30.5	44.5	62.1	104.9	2.1	19.4 N	E
TIE LINE 19130													
521027.2	6850948	5894.5	7	0.9	0	0	19.2	34.2	84	148.2	6.1	26.3 A	S
521622.1	6851179	5876.9	7	0.4	0	0	5.9	16.3	19.1	33.9	0	6.8 B	B?
521947.7	6851303	5865.5	7	2.5	0	0	63.8	62.3	184.5	152.5	24.2	56.6 C	B?
523377.5	6851882	5824.8	7	999	0	30	44.3	0	140.5	154.9	18.7	43.2 D	B?
523899.2	6852063	5811.7	7	2.6	0	90	27.8	21.3	73.5	64.8	7.5	17.2 E	S?
524673.3	6852355	5792	7	2.3	0	43	28.8	24.6	63.3	25.5	6.9	17.2 F	S?
524840.7	6852418	5787.8	7	1.5	0	129	19	20.9	85.3	81.4	8.7	25.4 G	S?
528681.9	6853937	5688.4	7	2.4	0	0	28.4	23.5	158	65.8	20.2	49.5 H	B?
529485.8	6854238	5664.4	7	1.5	0	0	25.1	29.8	86	92.7	10.1	27.9 I	B?

530283.1	6854548	5642.3	7	1.4	0	0	55.4	92.9	184.9	233	12.1	55.2 J	B
531185.8	6854923	5615.6	7	7.6	0	21	24.7	8.1	112.1	82.7	20.3	41.3 K	B
531489.1	6855056	5606.3	7	2.8	0	48	46.3	38.1	87.9	80.1	17.5	25.5 L	B?
531997.5	6855213	5592.8	7	215	343	0	0	0	0	0	0	0 M	E
533068.4	6855634	5556.1	7	999	11.8	0	16.4	0	4.9	0	3.3	1.5 N	D
533226.4	6855690	5550.5	7	3.9	0	0	40.6	24.7	109.1	62.1	14.2	31 O	D
533556.8	6855827	5538.7	7	1.9	0	411	48	55.3	210.9	200.9	14.7	54.5 P	S?
534143.8	6856037	5512.9	7	1.6	0	0	28.1	32.6	119.7	111	18.9	40.1 Q	B?
TIE LINE 19140													
544426.9	6854856	1973	52	0.6	0	0	9	20.2	16.3	53.1	2	8.6 A	D
548509.6	6856424	1722.8	52	0.6	0	2	13.1	30.4	66.3	160.5	2.5	25 B	S
549650.9	6856879	1672.1	52	0.7	0	3	15.2	35	41.8	123.3	1.4	18.4 C	S?
550978.4	6857407	1627.6	52	5.6	0	9	47.1	22.4	106.1	53.2	8.4	25.4 D	S?
TIE LINE 19148													
522630	6846369	8273.8	54	0.3	0	0	4.8	18.8	0	0	0	0 A	E
523131.5	6846561	8300	54	0	0	326	2.3	1.4	2.1	3.8	1	1.7 B	M
532525.2	6850223	8849.6	54	2.6	11.1	0	26.6	20.1	79.6	82.2	7.3	25.2 C	S?
TIE LINE 19150													
545143.2	6849980	566.2	22	1.4	15.4	0	16.2	17.8	42.6	35.9	4.4	11.6 A	S
547116.4	6850737	471.9	22	0.5	1.8	0	8.9	24	32.8	55.4	2.9	11.1 B	S?
TIE LINE 19160													
526663.9	6837578	2516.5	22	1.2	0.3	0	17.8	24	55.3	92.6	4	17.4 A	S
529837.6	6838826	2593.4	22	1	0	0	18.1	28.4	160.7	192.5	20.6	54.9 B	B
531580.5	6839495	2636.6	22	1.2	9.2	3	12.4	14.4	75.3	109.7	11.9	26.9 C	B
531908.4	6839629	2644.4	22	1.2	0	1	20.3	28.2	65.6	76.4	6.3	20.9 D	B?
TIE LINE 19170													
520751.1	6830119	4748.1	22	0.5	0	0	8.9	22.7	78.1	174.6	4.7	29.8 A	S
526213.6	6832270	4576.3	22	1	4	0	12.8	18.3	0	70.4	1.8	1.7 B	S
526491.6	6832367	4567.9	22	0.6	0	0	10.8	25	59.2	94.4	3.2	17.6 C	S
527249.8	6832641	4543.4	22	0.6	5.2	0	7.4	14.2	34.1	65.6	4.2	13.1 D	S
527885.4	6832879	4522.4	22	0.9	0	0	18.7	34.6	105.7	150.6	7.6	35.3 E	S
529250.5	6833410	4472.4	22	1.3	0.4	0	19.1	24.5	67.8	61	8.9	21.4 F	B?
541383.9	6838142	4069.8	22	0.8	0	14	13	22.6	32.9	46.6	0.7	8.6 G	S?
TIE LINE 19180													
523159.4	6825866	5014	22	10.9	7.9	0	18.7	4.4	135.2	2.3	28.4	52.1 A	D
523206.2	6825890	5015.6	22	0.8	0	6	12.9	23.4	135.2	61	28.4	52.1 B	B?
523641	6826094	5029.4	22	0.1	0	7	1.6	10.1	63.4	119.9	0	25.1 C	S

TIE LINE	19190												
526478.4	6821984	6074.5	22	1.8	20.3	0	15.3	13.3	99.3	142.9	10.7	34.2 A	B
TIE LINE	19208												
535769.6	6820434	6122.9	54	1	0	0	25	42.2	131.4	130.9	18.1	43.1 A	B
536649.8	6820760	6093.6	54	0.8	0	0	19.9	45	101.4	153.8	9.3	33.5 B	B?
TIE LINE	19210												
520790	6906928	8609.4	47	2.1	1.7	0	34.6	33.5	133.1	172.3	45.4	43.5 A	B
520780.6	6906517	8595.9	47	4.5	0.9	17	58.2	34.5	207.6	130.3	19.6	59.3 B	B?
520795.3	6905858	8575.4	47	2.1	6.9	47	26.5	23.3	228.8	175.1	27.2	69.6 C	B?
520779.8	6905401	8560.2	47	1	5.1	0	14.7	22.3	119.1	163.7	15	40.6 D	D
520786.6	6905129	8550.5	47	10.1	34.5	16	13.4	3.1	0	28.6	0	7.6 E	B?
520788.5	6904909	8542.1	47	1.6	0	0	47.6	65.6	0	120.4	0	0 F	B?
520806.8	6904479	8525.4	47	215	367.5	0	0	0	117.6	100.1	0	45.1 G	B?
520784.2	6904182	8514.8	47	2.1	2.2	0	33.4	32.1	132.7	113.9	45.4	51.8 H	B
520770.9	6903916	8506	47	2.3	0	4	68.8	75.9	220.7	183.9	48.9	80.4 I	B?
520783.9	6903586	8495.4	47	999	25	6	26.9	0	27.7	152.1	0	9.6 J	B?
520784.6	6903462	8491.4	47	1.9	0	0	60.4	74.6	350.8	296.5	74.7	130 1 K	B
520805.9	6903018	8476.9	47	1.1	0	0	21.7	33.4	84.2	154.7	14	32.9 L	B
520797.1	6902403	8454.4	47	999	14.4	0	47	0	261.4	297.4	78.8	98.3 M	B?
520796.8	6902035	8440.7	47	1.4	3.1	0	22.9	28.3	0	112.7	0	0 N	B?
520804.9	6901843	8433.5	47	1.7	11.9	0	17.7	16.9	77.3	23	8.8	17.7 O	B
520808.8	6901676	8427.5	47	1.2	3.1	0	19.2	26.9	0	37.9	0	0 P	B
520806.1	6901454	8420	47	999	11.7	1	54.8	0	263.1	180.3	0	85.6 Q	B?
520810	6901305	8415.2	47	999	21.3	0	32.3	0	263.1	0	35.7	85.6 R	B
520814.8	6900732	8395.3	47	3.1	0.1	1	49.3	38.2	2.7	161.4	0	0.3 S	B?
520807.1	6898842	8332.4	47	1.1	13.4	0	11.9	14.5	44.1	72.9	8	18.6 T	B?
520813.6	6897813	8298.7	47	0.9	0	0	26.9	56.5	34.4	138.3	2.9	19.4 U	S?
520815	6894931	8212.9	47	1	7.4	9	14.1	19.9	81.2	111.7	8.8	25.5 V	S?
520809.5	6894791	8208.2	47	1.1	12.5	0	11.7	15	81.2	0	8.8	0 W	D
520802.7	6894102	8185.4	47	1.1	15.7	0	10.3	12.7	24.1	26.7	1.4	6.4 X	D
520850.3	6884500	7879.8	47	1.3	0	0	25.1	34.3	170.4	167.9	20.4	51.3 Y	B
520840.2	6884362	7875.5	47	1.6	13.1	0	15.8	15.6	0	0	20.4	51.3 Z	B
520793.9	6881932	7797.3	47	0.8	0	0	16.3	30.6	98	132	7.9	28.5 AA	S?
520803	6880404	7747.4	47	1.1	6.9	10	14.9	20.7	72	95.7	4.3	19.3 AB	B?
520851	6871744	7469.1	47	999	41.2	0	13.5	0	99.2	149.7	9.8	37 AC	B
520843.8	6871474	7456.7	47	0.5	0	1	11.4	34.8	69.9	80	11	24.5 AD	B
520831.1	6871022	7441	47	1.6	16.2	0	13.9	13.1	10.7	8	0	4.5 AE	B?

520837.1	6870352	7419	47	0.6	13.3	0	6.6	11.9	29.6	35.9	5	12.1 AF	B?
520865.9	6859003	7055.4	47	1.3	0	0	35.1	52.1	114	138.8	13.9	40.3 AG	B
520869.6	6858658	7044.1	47	1.1	0	0	28.6	48	145.7	205.7	18.4	53.3 AH	B
520861.8	6858111	7026.3	47	215	367.5	0	0	0	72.9	47.8	9.2	20.6 AI	B
520845.1	6856614	6980.4	47	1.4	2.4	0	24.2	29.8	83.5	116.9	7.3	27 AJ	B?
520850.4	6856294	6970	47	2.3	0.7	0	38.9	36.2	112.8	136.1	10	36.1 AK	B?
520865.9	6855204	6937	47	0.7	0	0	14.6	29.2	86.1	152.8	11.7	34.6 AL	D
520866.9	6853036	6870.2	47	1	0	0	40.8	89.9	182.3	357.2	19.4	70.6 AM	B
520870.2	6843540	6547	47	1.1	11.8	0	12.4	15.7	36.2	0.5	2.9	13 AN	B?
520869.3	6843269	6536.3	47	0.6	0	0	10.3	23.4	122.8	179.6	12.8	44.7 AO	B
520882.8	6838043	6350.7	47	1.7	1.4	0	29.3	33.1	188.4	235.7	21.2	65.7 AP	B
TIE LINE	19220												
520554	6906536	8770	47	0.9	0	0	9.9	14.1	0	0	0	0 A	D
520735.2	6906555	8776.2	47	1.1	0	0	9.5	11	125.4	71.5	29.7	27.5 B	D
521068.5	6906514	8786.3	47	0.5	0	0	9.7	29	42.1	116.7	19.1	15.8 C	D
521811.2	6906560	8808	47	1.2	0	0	23.8	33.9	91	170.5	5.7	30.7 D	B?
522405.4	6906561	8825	47	1.2	0	0	25.2	36.1	140.3	168.5	9.8	46.4 E	B?
522855	6906562	8836.9	47	8.4	0	11	18.3	5.2	0	11.3	26.7	0 F	B?
523876.2	6906592	8863.1	47	3.1	0	0	22.1	13.8	255.3	198.3	69.6	98.4 G	B?
524047.2	6906597	8867.5	47	0.3	17.5	0	1.1	2.2	104.9	0	39.2	39.2 H	B?
524487.8	6906603	8878.9	47	2.1	0	0	35.4	33.7	107.1	124.5	28.7	42.7 I	B
524762.9	6906599	8886.1	47	1.7	0	0	13	11.7	51	44.1	3.6	16.2 J	B
525529.4	6906601	8906.1	47	2.8	0	1	16.7	10.4	89.9	78	3.8	26 K	B?
525789.3	6906596	8913.1	47	2	0	0	12.7	9.7	37.8	54.2	5.2	13.2 L	D
526409.2	6906598	8930.1	47	1.7	0	1	21.5	22.1	66.2	31.7	9.8	23.1 M	D
527441.2	6906668	8957.4	47	1.1	0	1	19.5	28.7	41.5	93.5	2.3	16.4 N	B?
527798.5	6906633	8966.9	47	1.1	0	0	9.8	11.9	73	26.9	8.3	24.2 O	B?
531482.6	6906676	9062.6	47	0.8	0	2	17.6	36.9	44.5	121.4	0	16.6 P	S?
532947.7	6906696	9098.4	47	3.8	0	0	44.5	28.3	102.1	141	8.4	32 Q	D
533564.5	6906681	9114.4	47	999	13.2	1	11.6	0	24.6	37.1	0	10.5 R	D
533870.2	6906688	9122.7	47	1.8	0	3	17.4	15.8	31.2	49.5	0	6.7 S	D
534130	6906696	9129.6	47	2.5	0	0	21.6	15.7	66.9	109.6	5.8	22.5 T	D
TIE LINE	19230												
539949.3	6911531	5495.1	53	0.9	0.5	0	14.5	23.8	206	165.3	28.2	69.5 A	S?
539947	6914120	5417.5	53	1.1	1.2	0	17.1	24.4	0	0	2.8	0 B	D
539942.6	6914759	5398.5	53	1.2	0	0	20.8	29.1	0	77	1.6	12.2 C	S
539920.8	6916105	5358.8	53	2.5	0	0	44.4	39.3	235.2	255.3	18.5	71.8 D	S?

539923.9	6917060	5330.9	53	3.6	0	0	67.4	49.5	143.4	138.7	27.3	52.5 E	D
539904.6	6919469	5253.1	53	999	45	0	10.5	0	0	17.2	0	0 F	D
539896.1	6919651	5247.2	53	1.2	11.2	0	11.8	13.9	50.6	26.5	15.2	16 G	D
539887.9	6919817	5241.9	53	1	14.9	0	9.2	11.2	0	50.3	0	0 H	D
539887.6	6922858	5140.7	53	991.2	47	0	9.8	0	26.5	3.9	6.9	11.4 I	D
TIE LINE	19240												
544348.2	6926067	4603.5	53	4.3	0	0	29	14.9	108.4	70.8	17.4	35.5 A	D
544777.6	6926073	4590.1	53	10.9	0	1	32.7	8.8	124.6	64.9	79.7	46.3 B	B
544843.6	6926074	4588	53	215	342.8	0	0	0	131.6	64.9	79.7	52.2 C	B
545208	6926087	4576	53	999	18.1	0	12.7	0	111.6	22.5	107.3	26.2 D	B?
547607	6926114	4497.9	53	0.9	0	0	10	15	25	38.5	0.9	7.2 E	S?
549479.2	6926152	4436.2	53	999	19.1	0	12.3	0	69.7	64.7	42.2	25.8 F	B?
549634.4	6926165	4431.1	53	215	342.8	0	0	0	69.7	5	42.2	25.8 G	B?
553852.8	6926213	4254.9	53	2	0	0	12.5	9.3	34.6	11.7	0.7	0.1 H	B
554083	6926198	4247.3	53	2.7	7	5	10.4	5.8	57.8	66.9	10.6	23.4 I	B?
555986.9	6926211	4162.6	53	0.6	0	24	9	21.3	25.1	53.8	3.2	8.8 J	B?
556096.6	6926215	4158.5	53	0.7	0	0	7.6	13.5	35.9	76.2	3.2	13.9 K	B?
TIE LINE	19250												
561282.6	6910640	2406	46	0.1	0	1	2.6	18.5	14.5	89.1	0.5	12.2 A	B?
561282.9	6910563	2403.3	46	0.1	0	1	2.6	24.4	14.5	89.1	0.5	12.2 B	B?
561275.5	6903310	2144.4	46	0.9	0.6	0	14.5	24.5	33.9	64.2	2.6	11.7 C	S
TIE LINE	19260												
560661.8	6890995	1381.5	46	0.5	0	1	9.8	30	23.7	78	1.4	9.2 A	D
TIE LINE	19278												
554395.4	6851934	2346.1	54	0.8	0	0	11.1	19.8	23.6	44.1	1.6	7.9 A	D
554452.8	6865935	1826.5	54	0.7	0	0	6.9	11.6	0	14.6	0	0 B	B?
554471.1	6868191	1751.6	54	1.4	0	1	15.2	16.2	2.9	29.4	1.6	1.4 C	B?
554476	6868725	1735.8	54	1	0	0	13.8	20.9	34.4	63.1	2.5	0.2 D	D
554446.8	6874314	1550.3	54	2.4	0	0	13.7	9.2	18.6	26.3	1.1	6.7 E	D
TIE LINE	19288												
539976.1	6820796	5553.8	54	1	0	0	23.3	38.3	165.6	238.7	12.7	55.7 A	S
TIE LINE	19290												
524472.7	6820010	5452.5	47	0.7	0	1	23.4	63.8	95.5	210.1	9.7	39.8 A	B
525780.9	6819980	5395.5	47	1.3	0	0	39	61.4	174.2	219.1	15.9	35.7 B	B
526763.4	6820022	5353.9	47	1.5	0	0	26.9	33.6	159.4	215.7	19.8	57.5 C	B
527961.7	6820032	5303.2	47	1.2	0	0	37.1	61.3	269.2	357.6	33.9	98.1 D	B?
532414.1	6820088	5121.9	47	0.6	0	0	14.2	38.2	14.1	87.6	3.8	16.1 E	B?

534562.2	6820101	5041.4	47	0.9	0	0	22.9	44.1	38.1	98.4	5	19.9 F	B?
535792.9	6820128	4985.8	47	1.8	0	0	31	32.7	133.1	296.1	21.2	59 G	B
538653	6820138	4849.6	47	1.1	0	0	30.2	51	183.3	288.8	17.9	65 H	B?
538870	6820166	4839.3	47	0.6	0	0	21.5	64.6	227	377.1	21.4	84.2 I	B