83-#90

HELICOPTER ELECTROMAGNETIC SURVEY

SELCO INC.

YMIR AREA, BRITISH COLUMBIA

PROJECT #24H59 FEBRUARY, 1983

Part 1 of 3

Questor Surveys Limited, 6380 Viscount Road, Mississauga, Ontario L4V 1H3

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INTRODUCTION

An airborne INPUT Helicopter Electromagnetic Survey, project number 24H59, was flown during the month of January, 1983, by Questor Surveys Limited for Selco Inc. The survey block is situated just west of Ymir in the Nelson Mining Division, British Columbia. An outline map of the survey area which was taken from National Topographical Series, sheet number 82F is provided in the Appendix. The operating base was Castlegar, British Columbia, situated approximately 25 kilometres west of the survey area.

A total of 277 line kilometres were flown.

The principle products of the INPUT Helicopter Electromagnetic Survey are i) the total field magnetic contour map, and ii) the INPUT anomaly maps.

Questor Surveys Limited performed the airborne survey by a Bell 205A-1 Helicopter with Canadian Registration C-GLMC which was adapted for INPUT survey application. The 205A-1 combines substantial power, affordable space for equipment installation and service ceiling of 20,000 feet (unequipped). The INPUT installation consists of the following major additions:-

Equipment	Placement
Transmitter loop and frame	external
Transmitter	external, starboard
Receiver	internal
Recording system	internal
Magnetometer sensor	external, forward
Magnetometer	internal

Radar altimeter	external, starboard
Camera	external, starboard
Bird winch	internal
A.P.U.	external, port

A vertical axis coil was installed within the 'receiver bird' structure. During ferry flights, the 'receiver bird' is cradled beneath the airframe in the same manner as the fixed-wing installation.

The equipped helicopter has a range of approximately four hours under optimum conditions. This figure is de-rated by temperature and altitude factors, plus an appropriate margin of reserve for safety, depending on the local setting of the particular survey.

The field personnel consisted of:

Pilot	-	B. Masson
Navigator	-	H. Sandau
Operator	-	D. Borsoi
Engineer	-	J. Caza
Data Technician	-	H. Sandau

SURVEY PROCEDURE

During the survey, the helicopter maintained a terrain clearance as close to 122 metres as possible, with the E.M. bird at approximately 48 metres above the ground. In areas of substantial topographic relief, the helicopter height exceeds 122 metres for safety reasons.

An East-West flight direction and a flight line spacing of 200 metres were established for this project, in order to optimize the electromagnetic coupling between the receiver and the conductive anomalies.

In addition to the flight lines, control lines were flown perpendicular to the flight lines to be used for computer levelling of the magnetic data. In addition, a ground magnetic base station was monitored daily for severe diurnal variations (magnetic storms).

The appropriate details of each flight are logged on the flight logs by the operator-technician. The logs include the flight times, line numbers and fiducial numbers as well as a record of equipment irregularities and atmospheric conditions. One can refer to these in order to relate the flight path film to the geophysical data.

The ground speed of the helicopter, when on line, is strongly under the control of topographic relief and aircraft performance limitations. This causes data to undergo a varying degree of compression and expansion when recorded in equal time increments. The accuracy of the data is determined by that of the flight path recovery.

The navigation was accomplished using airphotos supplied by the client.

MAP COMPILATION

The survey area is comprised of 6 cronaflex positive mosaics supplied by the client. The 6 photo base mosaics are at a scale of 1:5,000. Navigational and flight path recovery maps were produced from these mosaics.

The navigational maps were used for the direct recovery of the flight path from the 35mm half-frame film negatives. This film is graduated into fiducials which are used in annotating points of similar topographic features. They are accurately plotted using at least one point per major fiducial.

The navigational maps cannot be employed for computer digitizing of the flight path because of shrinkage of the paper base. Therefore, Cronaflex maps with topographic details were utilized to trace the recovery from the navigation maps and for digitizing.

The Cronaflex with the flight path information has been combined photographically with the appropriate survey results to yield 6 INPUT maps and 6 magnetic contour mylars at a scale of 1:5,000. White prints of these are provided in the map pockets of this report.

INTERPRETATION

The most common types of bedrock conductors intercepted by the INPUT airborne system are those of massive sulphides, massive magnetite and graphite. In special circumstances, they produce strong and narrow INPUT responses of moderate to high conductivity proportional to the amount of sulphides, magnetite and/or graphite present. This is not always the case, since some sulphide deposits are known to produce poorer responses which may be attributed in part by the following circumstances:

1. the conductor is sub horizontal;
2. the mineralogy does not lend itself to be detected by electromagnetic methods;
3. the conductor is not massive but vein-like;
4. there is a lack of continuity of individual veinlets;
5. the conductor width is small;

It should be noted that an INPUT response can also result over fault or shear zones containing conductive material. This material could be clay, saline or mineral alteration. Distinguishing these responses from genuine conductors, using only airborne data, is virtually impossible.

In areas of thin or nonconductive overburden, maximum penetration of INPUT system is likely and the masking effect of any underlying bedrock conductor would be minimal. In this instance, weaker responses in the order of two and three channels originating from the bedrock, would be indicative.

A number of targets have been selected and summarized. These were primarily chosen because they exhibit one or more of the following qualities:

a) fair to excellent E.M. response character;
b) bedrock origin;
c) moderate to high conductivity-thickness values;
d) magnetic association;
e) favourable geological location as interpreted from the contoured magnetics.

The following summarizes the parameters and terms associated with each selected INPUT target:

Final
Anomaly: An anomaly is designated by a flight line number and a suffix letter, for example:

60010A

6 - first digit signifies the block;

001 - next three digits signifies the flight line number (900 series - tie lines);

0 - fifth digit signifies the number of reflys;

A - a letter is assigned to each anomaly which relates to their sequential order along the flight line. QUESTOR'S alphabet is: ABCDEFGHJKLMNPRSTWYZ.

Anomaly
Fiducial: The position in which the anomaly is located along the recovered flight path. A lag factor of a half subfiducial has been applied.

CHS : The number of channels displayed by the anomaly.

CH1.AMP : A computer estimate of channel 1 amplitude in units of parts per million. For those amplitudes that exceed the bottom of the analog record, a value of 6000 ppm is assumed.

CH2.AMP : A computer estimate of channel 2 amplitude in units of parts per million. A graduation on the analog record is equivalent to 30 ppm.

Siemens : The conductivity-thickness product in siemens. One siemen is equivalent to one mho.

Magnetic
Fiducial: The location of a correlating magnetic anomaly. These are flagged on the flight path. A lag factor of a half subfiducial has been applied.

Value : The magnitude of the magnetic anomaly, in gammas.

Alt. : The altitude of the aircraft above the ground surface, in feet.

RESULTS AND RECOMMENDATIONS

Three papers which had documented the INPUT responses of a vertical axis receiver coil over different geologic geometries were located and are listed at the back of this report.

Numerous INPUT anomalies were intercepted during the survey and all of them have been plotted on the maps.

H.W. Little (1960) suggested in his geologic report that a major syncline passes through the survey area in a North-South direction. With this assumption, it is probable that most conductors intercepted in this area are dipping conformably. However, the ability to discriminate a vertical conductor from a dipping conductor or a horizontal ribbon, or vice versa, was complicated by the interference between anomalies. Therefore, only an approximate strike location of the conductors could be interpreted. These interpreted conductors may dip vertically or at an angle, or lie in an horizontal position. Only in some instances, the dip direction was concluded because the INPUT responses exhibit the following characteristic:

i) stagger of the INPUT peak

and ii) comparison of line to line responses with model curve (G.J. Palacky, 1974)

Interpretation of magnetic responses gives extra information in some cases. Nevertheless, the direction of dip is not conclusive and ground geophysical and geological surveys are required for confirmation.

A large area of overburden has been outlined on map sheet number 1. An examination of the analogue records revealed that channels 1 to 4 responses observed are larger than the maximum response the system can record. The responses indicate that the conductors are either very conductive or surficial. The anomalous response of the later channels are also an indication of the presence of a thick conductive layer.

In some cases, when two conductors are dipping to each other as indicated on the interpretation map, it is probable that they may form one conductor. Most conductors in map sheet 1 are associated with surficial overburden except conductor 7 which may be formational and of graphitic origin.

All conductors on map sheets 2 and 4 are interpreted as surficial overburden.

Map sheets 3, 5 and 6 represent a more resisitive area of this survey block. Many conductors of these three map sheets are probably structural, associated with the anticline-syncline system which passes through this area. Conductors are striking in a NNW-SSE direction at the southern half of map sheet 3. On the northern half of map sheet 3, the strike direction changes into a NNE-SSW direction. In map sheet 5, the conductors are striking in an approximate north-south direction except Conductor 9.

Four Conductors 1,2,3 and 8 were selected in map sheet 3 because of thin short strike length and an association with a probable intrusive, suggested by magnetic response. However, the relatively low conductance, 5 siemens for Conductor 1 and 3, degrade their priority. Because of the better decay response and conductance value of conductors 2 and 8, a medium priority is designated. The north-south trending conductors found in map sheet 5 and 6 appear to be formational. Downwarp, upwarp are apparent from the magnetic responses of these two map sheets. Also, an intrusive exits at the northwest corner of map sheet 5.

Four Conductors 4,5,6 and 9 are selected in map sheet 5 because of their short strike length and apparent association with magnetics. Conductor 4 is a poor priority because of the poor decay response and low conductance value. Conductors 5 and 6 exhibit good decay response and fair conductance value. Conductor 9 is given a higher priority because of its sharp response, high conductance value and good decay response. The magnetic association suggests pyrrhotite may be the source material.

Respectfully submitted,

QUESTOR SURVEYS LIMITED

S. Wong

S. Wong,
Geophysicist.

APPENDIX

EQUIPMENT

The helicopter is equipped with a Mark VI INPUT (R) E.M. system and Sonotek P.M.H. 5010 Proton Magnetometer. Radar altimeters are used for vertical control. The outputs of these instruments together with fiducial timing marks are recorded by means of galvanometer type recorders using light sensitive paper. Thirty-five millimeter half frame cameras are used to record the actual flight path.

BARRINGER/QUESTOR MARK VI INPUT (R) SYSTEM

The Induced Pulse Transient (INPUT) system is particularly well suited to the problems of overburden penetration. Currents are induced into the ground by means of a pulsed primary electromagnetic field which is generated in a transmitting loop around the helicopter. By using half sine wave current pulses and a loop of large turns-area, the high output power needed for deep penetration is achieved.

The induced current in a conductor produces a secondary electromagnetic field which is detected and measured after the termination of each primary pulse. Detection is accomplished by means of a receiving coil towed behind the helicopter on two hundred and fifty feet of cable, and the received signal is processed and recorded by equipment in the helicopter. Since the measurements are in the time domain rather than the frequency domain common to continuous wave systems, interference effects of the primary transmitted field are eliminated. The secondary field is in the form of a decaying voltage transient originating in time at the termination of the transmitted pulse. The amplitude of the transient is, of course, proportional to the amount of current induced into the conductor and, in turn, this current is proportional to the dimensions, the conductivity and the depth beneath the helicopter.

The rate of decay of the transient is inversely proportional to conductivity. By sampling the decay curve at six different time intervals, and recording the amplitude of each sample, an estimate of the relative conductivity can be obtained. By this means, it is possible to discriminate between the effects due to conductive near-surface materials such as swamps and lake bottom silts, and those due to genuine bedrock sources. The transients due to strong conductors such as sulphides exhibit long decay curves and are therefore commonly recorded on all six channels. Sheet-like surface materials, on the other hand, have short decay curves and will normally only show a response in the first two or three channels.

The samples or gates are positioned at 340, 540, 840, 1240, 1740 and 2340 micro-seconds after the cessation of the pulse. The widths of the gates are 200, 200, 400, 400, 600 and 600 micro-seconds respectively.

For homogeneous conditions, the transient decay will be exponential and the time constant of decay is equal to the time difference at two successive sampling points divided by the log ratio of the amplitudes at these points.

SONOTEK P.M.H. 5010 PROTON MAGNETOMETER

The magnetometers which measure the total magnetic field have a sensitivity of 1 gamma and a range from 20,000 gammas to 100,000 gammas.

Because of the high intensity field produced by the INPUT transmitter, the magnetometer results are recorded on a time-sharing basis. The magnetometer head is energized while the transmitter is on, but the read-out is obtained during a short period when the transmitter is off. The precession frequency is being recorded and converted to gammas during the 0.2 second interval when there is no power in the transmitter loop.

For this survey, a lag factor has been applied to the data. Magnetic data recorded on the analogue records at fiducial 10.00 for example would be plotted at fiducial 9.95 on the mosaics.

The magnetometer has two scales, a coarse and a fine scale. The fine scale indicates a 10 gamma change for a 1 cm. change in amplitude. The coarse scale moves 2 mm. (or 1 division) for a 100 gamma change with gamma range with 1 gamma sensitivity.

DATA PRESENTATION

The symbols used to designate the anomalies are shown in the legend on each map sheet and the anomalies on each line are lettered in alphabetical order in the direction of flight. Their locations are plotted with reference to the fiducial numbers on the analog record.

A sample record is included to indicate the method used for correcting the position of the E.M. Bird and to identify the parameters that are recorded.

All the anomaly locations, magnetic correlations, conductivity-thickness values and the amplitudes of channel number 2 are listed on the data sheets accompanying the final maps.

GENERAL INTERPRETATION

The INPUT system will respond to conductive overburden and near-surface horizontal conducting layers in addition to bedrock conductors. Differentiation is based on the rate of transient decay, magnetic correlation and the anomaly shape together with the conductor pattern and topography.

Power lines sometimes produce spurious anomalies but these can be identified by reference to the monitor channel.

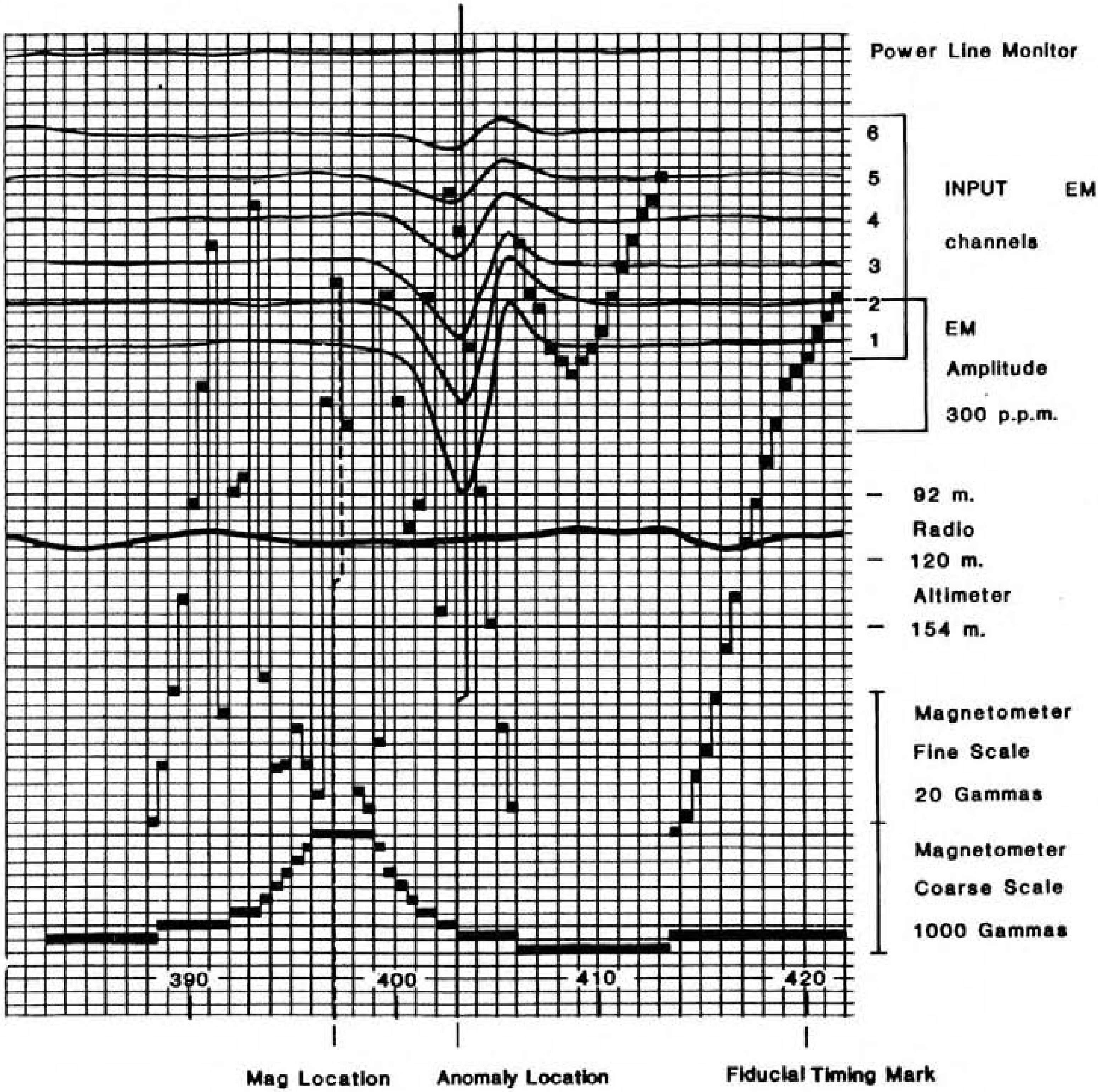
Railroad and pipeline responses are recognized by studying the film strips.

Graphite or carbonaceous material exhibits a wide range of conductivity. When long conductors without magnetic correlation are located on or parallel to known faults or photographic linears, graphite is most likely the cause.

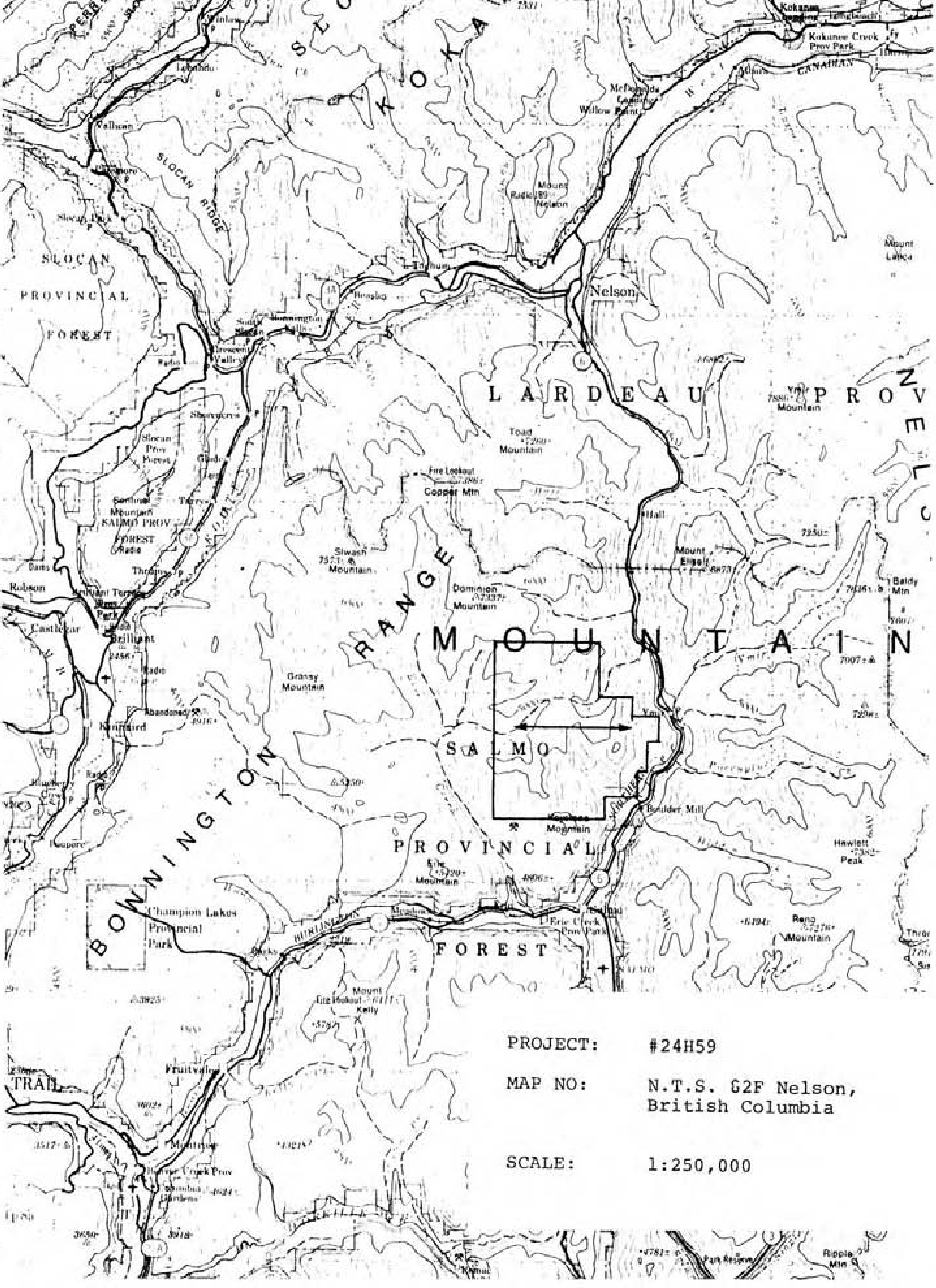
Contact zones can often be predicted when anomaly trends coincide with the lines of maximum gradient along a flanking magnetic anomaly. It is unfortunate that graphite can also occur as relatively short conductors and produce attractive looking anomalies. With no other information than the airborne results, these must be examined on the ground.

Serpentinized peridotites often produce anomalies with a character that is fairly easy to recognize. The conductivity which is probably caused in part by magnetite, is fairly low so that the anomalies often have fairly large response on channel # 1, they decay rapidly and they have strong magnetic correlation. INPUT E.M. anomalies over massive magnetites show a relationship to the total Fe content. Below 25-30%, very little or no response at all is obtained but as the percentage increases the anomalies become quite strong with a characteristic rate of decay which is usually greater than that produced by massive sulphides.

Commercial sulphide ore bodies are rare and those that respond to helicopter survey methods usually have medium to high conductivity. Limited lateral dimensions are to be expected and many have magnetic correlation caused by magnetite or pyrrhotite. Provided that the ore bodies do not occur within formational conductive zones as mentioned above, the anomalies caused by them will usually be recognized on an E.M. map as priority targets.



Representative INPUT Magnetometer and Altimeter Recording



PROJECT: #24H59

MAP NO: N.T.S. 82F Nelson, British Columbia

SCALE: 1:250,000

FINAL ANOMALY	ANOMALY FIDUCIAL	CHS	CH1.AMP	CH2.AMP	SIEMENS	MAGNETIC FIDUCIAL	VALUE	ALT
10010A	11.862	6	6394	3210	37	-	-	440
10010B	12.904	6	6394	3210	45	-	-	432
10010C	14.152	6	6394	3209	53	-	-	443
10010D	14.643	6	6394	3209	52	-	-	448
10010E	15.298	6	6394	3209	39	15.10	9	446
10010F	16.047	6	3635	2414	28	-	-	496
10010G	17.272	6	6395	3209	51	-	-	426
10010H	18.003	6	6395	3209	NC	-	-	450
10010J	18.287	6	6395	3209	NC	-	-	420
10010K	19.947	6	6395	3208	33	19.80	12	465
10010L	20.367	6	6395	3208	32	20.55	47	430
10010M	21.281	6	6395	3208	NC	-	-	444
10010N	21.448	6	6395	3208	NC	21.40	15	430
10010P	21.683	6	6395	3208	NC	-	-	408
10010R	21.881	6	6395	3208	NC	21.80	67	425
10010S	22.147	6	6395	3208	64	22.20	82	464
10010T	23.614	6	580	412	45	-	-	406
10010W	23.925	6	5658	3207	57	-	-	418
10020A	25.679	6	180	140	27	-	-	387
10020B	25.999	6	6395	3207	NC	-	-	421
10020C	26.328	6	6395	3207	NC	26.40	15	414
10020D	27.100	6	4530	2625	15	-	-	424
10020E	28.325	6	6396	3206	57	-	-	462
10020F	29.322	6	6396	3206	NC	-	-	419
10020G	29.747	6	6396	3206	54	-	-	468
10020H	30.216	6	6396	3206	51	-	-	440
10020J	30.509	6	6396	3206	45	-	-	432
10020K	30.936	6	6396	3206	68	31.00	52	466
10020L	31.315	6	6221	3206	57	-	-	504
10020M	32.028	6	6396	3205	37	-	-	450
10020N	32.745	6	6396	3205	39	-	-	514
10020P	34.049	6	6396	3205	NC	-	-	458
10020R	34.394	6	6396	3205	NC	-	-	371
10020S	34.900	6	6109	3205	40	-	-	510
10030A	40.245	6	3215	2107	26	-	-	428
10030B	41.299	6	6397	3203	42	-	-	430
10030C	42.080	6	6397	3203	NC	-	-	368
10030D	42.698	6	5484	3203	49	-	-	464
10030E	43.248	6	6397	3203	33	-	-	414
10030F	43.722	6	6397	3203	64	-	-	431
10030G	44.173	6	6397	3203	NC	-	-	402
10030H	45.249	6	3903	2621	NC	-	-	499
10030J	46.147	6	6397	3202	NC	-	-	383
10030K	46.797	6	6175	3202	45	-	-	444
10030L	47.519	6	6397	3202	65	-	-	464
10030M	47.848	6	6397	3202	58	-	-	510
10030N	48.695	6	6397	3202	70	-	-	444
10030P	49.146	6	6397	3201	69	49.05	7	446
10030R	49.547	6	6397	3201	58	-	-	441

FINAL ANOMALY	ANOMALY FIDUCIAL	CHS	CH1.AMP	CH2.AMP	SIEMENS	MAGNETIC FIDUCIAL	VALUE	ALT
10030S	49.899	6	6397	3201	65	-	-	496
10030T	50.499	6	6397	3201	43	50.55	53	439
10030W	50.842	6	6398	3201	38	-	-	456
10030Y	51.494	6	6398	3201	NC	-	-	398
10030Z	52.749	5	770	432	23	-	-	430
10030AA	53.349	6	6398	3200	NC	-	-	376
10030BB	54.125	6	6398	3200	41	-	-	390
10030CC	54.450	6	6398	3200	NC	-	-	451
10040A	55.595	6	1417	903	24	55.45	6	411
10040B	56.199	6	6398	3200	NC	-	-	374
10040C	56.546	6	6398	3200	50	-	-	412
10040D	57.110	6	6398	3200	51	-	-	432
10040E	58.089	6	6398	3199	61	-	-	436
10040F	58.444	6	6398	3199	NC	-	-	409
10040G	59.044	6	6398	3199	21	58.95	28	450
10040H	59.996	6	6398	3199	NC	-	-	462
10040J	60.998	6	6398	3199	NC	-	-	428
10040K	61.544	6	6398	3199	51	61.40	70	464
10040L	61.916	6	6398	3198	NC	-	-	424
10040M	62.471	6	6399	3198	NC	-	-	403
10040N	63.446	6	6180	3198	87	-	-	494
10040P	63.897	6	6336	3198	80	64.00	64	510
10040R	64.748	6	6399	3198	NC	-	-	406
10040S	65.194	6	6399	3198	NC	-	-	414
10040T	65.596	6	6399	3198	29	-	-	401
10040W	66.043	6	4905	2804	19	-	-	452
10040Y	66.643	6	4499	2418	15	-	-	403
10040Z	67.491	6	6399	3197	33	67.35	5	512
10040AA	68.289	6	6399	3197	NC	68.25	91	362
10040BB	68.671	6	6399	3197	46	-	-	440
10040CC	69.195	6	6399	3197	38	68.95	-47	403
10040DD	69.619	6	5859	3197	29	69.20	6	484
10040EE	70.174	6	6399	3197	25	-	-	432
10040FF	70.598	6	3302	2051	25	-	-	440
10050A	74.039	6	4956	2989	5	-	-	434
10050B	74.747	6	6400	3196	39	74.80	34	459
10050C	75.090	6	6400	3195	38	-	-	461
10050D	75.257	6	6400	3195	37	-	-	434
10050E	75.946	6	6400	3195	NC	-	-	394
10050F	76.622	6	6400	3195	23	76.45	41	381
10050G	77.046	6	4309	2348	16	-	-	446
10050H	78.197	6	6400	3195	NC	-	-	411
10050J	78.994	6	6400	3195	NC	78.90	60	424
10050K	80.194	6	6400	3194	NC	-	-	459
10050L	80.744	6	6400	3194	NC	-	-	396
10050M	81.922	6	6400	3194	NC	-	-	389
10050N	82.728	6	6228	3194	52	-	-	488
10050P	82.971	6	6400	3194	43	-	-	411
10050R	83.269	6	6400	3194	52	83.15	37	423
10050S	84.198	6	6400	3193	NC	-	-	410
10050T	85.015	6	6401	3193	NC	84.90	46	420

FINAL ANOMALY	ANOMALY FIDUCIAL	CHS	CH1.AMP	CH2.AMP	SIEMENS	MAGNETIC FIDUCIAL	VALUE	ALT
10050W	85.699	6	6401	3193	NC	-	-	415
10050Y	85.943	6	6401	3193	28	85.95	7	390
10050Z	86.331	6	6401	3193	51	-	-	414
10050AA	86.466	6	6401	3193	54	86.50	36	458
10060A	87.495	6	6401	3193	38	-	-	408
10060B	89.070	6	6401	3192	34	-	-	392
10060C	89.497	6	6401	3192	39	-	-	401
10060D	90.593	6	6401	3192	NC	-	-	328
10060E	90.792	6	6401	3192	NC	-	-	406
10060F	91.243	6	6401	3192	43	-	-	378
10060G	92.262	6	6401	3191	42	92.15	49	410
10060H	92.798	6	6401	3191	61	-	-	507
10060J	93.222	6	6401	3191	54	-	-	443
10060K	93.515	6	6401	3191	NC	-	-	404
10060L	94.043	6	6401	3191	38	94.15	15	414
10060M	94.792	6	5576	3191	58	-	-	498
10060N	95.554	6	6401	3191	NC	-	-	370
10060P	96.337	6	6402	3191	34	-	-	422
10060R	97.267	6	6402	3190	NC	-	-	394
10060S	97.592	6	6402	3190	39	-	-	474
10060T	97.867	6	6402	3190	47	-	-	424
10060W	98.097	6	3642	2481	29	-	-	408
10060Y	98.719	4	420	281	21	98.85	275	484
10061A	99.549	6	6402	3190	NC	-	-	458
10061B	101.371	3	60	30	4	101.35	191	408
10061C	101.994	2	60	30	NC	-	-	384
10061D	102.265	2	60	30	NC	-	-	410
10070A	106.197	6	2690	1852	43	-	-	435
10070B	106.540	6	4787	3188	53	-	-	420
10070C	106.910	6	4393	2824	NC	-	-	413
10070D	107.235	6	5659	3188	52	-	-	428
10070E	107.618	6	4871	3188	47	-	-	422
10070F	108.036	6	6262	3188	58	-	-	434
10070G	108.586	6	6403	3188	NC	-	-	410
10070H	109.385	6	6403	3188	NC	-	-	370
10070J	109.646	6	6403	3187	NC	-	-	359
10070K	110.436	6	6403	3187	52	-	-	391
10070L	111.522	6	6403	3187	13	-	-	390
10070M	112.398	5	1600	1117	36	112.25	17	382
10070N	113.186	6	6403	3187	37	-	-	379
10070P	113.556	6	6403	3187	45	-	-	352
10070R	113.868	6	6403	3186	NC	113.90	28	351
10070S	114.795	6	6403	3186	42	-	-	466
10070T	115.043	6	6403	3186	NC	115.25	45	443
10070W	116.095	6	6228	3186	37	-	-	432
10080A	116.993	6	6403	3186	11	-	-	331
10080B	118.094	6	6403	3186	NC	-	-	341

FINAL ANOMALY	ANOMALY FIDUCIAL	CHS	CH1.AMP	CH2.AMP	SIEMENS	MAGNETIC FIDUCIAL	VALUE	ALT
10080C	118.670	6	6403	3185	NC	-	-	383
10080D	119.143	6	6404	3185	NC	-	-	332
10080E	119.888	6	6404	3185	NC	119.85	4	366
10080F	120.768	6	1322	963	49	-	-	376
10080G	121.291	6	6404	3102	11	-	-	440
10080H	121.745	6	2551	1667	29	-	-	452
10080J	122.196	6	6404	3185	NC	-	-	404
10080K	122.692	6	6404	3184	53	122.85	26	500
10080L	123.545	6	6276	3184	57	-	-	427
10080M	124.316	6	6404	3184	47	-	-	392
10080N	124.912	6	4598	3089	NC	-	-	422
10080P	125.398	6	2901	1976	38	-	-	419
10080R	127.324	3	60	30	2	127.45	223	443
10090A	135.675	6	6405	3181	NC	135.60	29	410
10090B	136.018	6	6386	3181	65	-	-	448
10090C	136.541	6	6405	3181	36	-	-	452
10090D	136.947	6	5649	3181	35	136.85	13	400
10090E	137.642	6	2952	1893	36	-	-	422
10090F	137.944	6	3274	1922	26	-	-	502
10090G	138.544	6	6405	3181	72	-	-	411
10090H	138.998	6	4080	2632	NC	-	-	451
10090J	139.549	6	6405	3181	NC	139.60	13	400
10090K	140.433	6	4718	2880	NC	-	-	400
10090L	141.944	6	6406	3180	15	142.05	7	427
10090M	143.147	6	6406	3180	34	-	-	399
10090N	143.743	6	6406	3180	27	143.60	38	357
10090P	144.013	6	6390	3180	20	-	-	440
10090R	144.492	6	6303	3179	19	-	-	416
10091A	16.692	3	60	30	10	-	-	434
10091B	19.420	2	60	30	NC	-	-	334
10091C	20.435	6	2572	1749	37	-	-	467
10091D	20.891	6	6147	3193	43	21.00	22	402
10091E	21.541	6	5897	3193	36	-	-	416
10091F	22.393	6	6388	3193	58	-	-	424
10091G	22.739	6	6388	3193	55	-	-	460
10091H	23.506	6	6388	3193	NC	-	-	360
10091J	24.444	6	6388	3193	NC	-	-	427
10091K	25.518	6	6388	3194	NC	-	-	406
10091L	26.067	6	6388	3194	NC	-	-	403
10091M	27.163	6	3644	2423	23	-	-	383
10091N	28.016	6	5822	2756	12	-	-	419
10091P	29.773	6	6388	3194	35	-	-	408
10091R	30.468	6	6388	3194	NC	-	-	351
10091S	30.942	6	6388	3194	NC	-	-	408
10091T	31.420	6	6388	3194	39	31.60	52	458
10091W	32.210	6	3906	1968	13	-	-	498
10101A	34.167	3	60	35	66	-	-	510
10101B	34.735	3	159	55	12	34.85	9	474
10101C	35.164	5	3731	1482	6	-	-	433

FINAL ANOMALY	ANOMALY FIDUCIAL	CHS	CH1.AMP	CH2.AMP	SIEMENS	MAGNETIC FIDUCIAL	VALUE	ALT
10101D	36.191	6	6388	3194	NC	36.05	9	328
10101E	36.416	6	6388	3194	NC	-	-	365
10101F	36.682	6	6388	3194	NC	-	-	378
10101G	37.264	6	6388	3194	NC	-	-	346
10101H	38.068	6	6388	3195	NC	38.00	8	379
10101J	38.812	6	1200	868	51	38.75	75	370
10101K	39.690	5	6388	3195	NC	-	-	436
10101L	40.421	6	6384	3195	38	-	-	479
10101M	40.696	6	5081	3195	44	-	-	506
10101N	42.122	6	6388	3195	33	-	-	432
10101P	42.397	6	6388	3195	29	-	-	393
10101R	43.045	6	6388	3195	56	-	-	432
10101S	45.919	2	60	30	NC	-	-	446
10101T	46.373	2	60	30	NC	-	-	442
10101W	48.597	1	30	-	NC	-	-	368
10101Y	50.197	2	60	30	NC	-	-	478
10101Z	50.540	1	30	-	NC	-	-	428
10101AA	51.239	2	60	30	NC	-	-	450
10110A	56.722	1	30	-	NC	-	-	510
10110B	60.614	6	6388	3196	59	-	-	396
10110C	61.246	6	6388	3196	NC	-	-	394
10110D	61.543	6	6388	3196	31	-	-	377
10110E	61.940	6	6388	3196	34	-	-	377
10110F	62.522	5	1038	657	31	-	-	390
10110G	62.946	4	1931	882	12	-	-	390
10110H	63.411	6	3784	1923	13	63.45	15	462
10110J	64.298	6	6388	3197	61	-	-	426
10110K	64.921	6	6388	3197	39	-	-	411
10110L	65.246	6	6388	3197	35	-	-	402
10110M	65.746	5	3119	1912	22	-	-	426
10110N	66.148	6	3025	1986	29	66.10	24	400
10111A	66.869	6	1416	931	33	67.00	46	422
10111B	67.140	6	6388	3197	NC	-	-	424
10111C	67.645	4	2128	1155	13	-	-	495
10111D	68.195	6	4000	2909	NC	68.05	76	378
10111E	68.543	6	5675	3197	54	68.55	12	403
10111F	69.003	6	6388	3197	NC	-	-	371
10111G	69.666	6	6219	3197	23	-	-	394
10111H	69.941	6	2050	1300	22	-	-	395
10111J	71.194	2	513	99	NC	-	-	409
10111K	71.636	2	103	32	NC	71.55	52	406
10120A	74.447	2	60	33	NC	-	-	412
10120B	75.498	6	328	234	36	-	-	376
10120C	76.245	6	6388	3198	22	-	-	363
10120D	76.895	6	6388	3198	22	-	-	442
10120E	77.964	5	1688	826	16	-	-	446
10120F	78.790	6	6388	3198	55	-	-	466
10120G	78.948	6	6388	3198	45	-	-	471
10120H	79.496	6	3275	1959	21	-	-	402

FINAL ANOMALY	ANOMALY FIDUCIAL	CHS	CH1.AMP	CH2.AMP	SIEMENS	MAGNETIC FIDUCIAL	VALUE	ALT
10120J	79.947	6	3753	1823	12	-	-	452
10120K	80.796	3	2175	889	10	-	-	351
10120L	81.941	6	1338	775	35	-	-	432
10120M	82.320	6	6388	3198	32	-	-	383
10120N	82.847	6	6388	3198	42	-	-	490
10121A	88.396	2	60	30	NC	-	-	507
10130A	99.747	2	60	30	NC	-	-	456
10130B	103.891	6	6388	3200	32	-	-	448
10130C	104.147	6	6388	3200	28	-	-	435
10130D	104.995	6	6388	3200	NC	104.90	5	414
10130E	105.897	6	1759	1061	16	-	-	472
10130F	106.425	6	1528	959	17	-	-	431
10130G	106.750	6	5988	3200	17	-	-	459
10130H	107.169	6	5509	3200	29	-	-	415
10130J	107.948	6	5681	3200	46	-	-	508
10130K	108.169	6	6103	3200	45	-	-	408
10130L	109.193	4	950	688	28	-	-	443
10130M	110.493	6	4363	2885	NC	-	-	428
10130N	110.897	6	5909	3200	51	-	-	356
10130P	111.538	6	4378	2488	17	-	-	394
10140A	117.671	4	256	187	14	-	-	366
10140B	118.244	6	3150	1704	20	-	-	390
10140C	120.296	6	3350	2300	37	-	-	467
10140D	120.689	6	6388	3201	38	-	-	362
10140E	121.720	6	6388	3201	11	-	-	424
10140F	122.492	6	3266	1622	10	-	-	434
10140G	123.141	6	6388	3201	18	-	-	440
10140H	123.593	6	6388	3201	27	-	-	488
10140J	127.074	2	60	30	NC	-	-	474
10150A	137.423	3	63	30	2	-	-	472
10150B	141.094	6	6041	3203	27	-	-	450
10150C	142.270	6	5859	3203	15	-	-	400
10150D	142.892	4	4972	2105	7	-	-	366
10150E	143.289	4	2484	1101	9	-	-	424
10150F	143.691	6	3366	1620	13	-	-	432
10150G	143.944	6	3941	2298	21	-	-	480
10150H	144.273	6	3297	2198	37	-	-	504
10150J	144.783	6	1469	837	32	-	-	432
10150K	145.417	3	875	541	21	145.30	5	360
10150L	146.744	6	4375	2575	22	-	-	383
10150M	146.996	6	1919	985	14	-	-	384
10150N	149.480	2	75	43	NC	-	-	368
10160A	153.765	5	328	188	17	-	-	448
10160B	154.217	6	2156	1226	19	-	-	394
10160C	155.216	4	1313	738	19	-	-	408

FINAL ANOMALY	ANOMALY FIDUCIAL	CHS	CH1.AMP	CH2.AMP	SIEMENS	MAGNETIC FIDUCIAL	VALUE	ALT
10160D	156.489	6	6388	3204	47	-	-	506
10160E	157.120	6	4806	3204	37	-	-	476
10160F	157.671	6	4263	2284	17	-	-	408
10160G	158.021	6	3978	1876	12	-	-	408
10160H	158.648	3	3881	1587	7	-	-	400
10160J	158.964	6	6384	3204	15	158.90	27	432
10160K	159.595	6	5106	2796	15	-	-	488
10160L	159.749	6	4691	2789	20	-	-	503
10160M	163.374	1	50	-	NC	-	-	464
10170A	174.419	2	84	43	NC	-	-	415
10170B	175.838	5	1203	640	12	-	-	443
10170C	176.470	6	2578	1529	15	-	-	371
10170D	176.722	6	2816	1274	14	176.65	179	382
10170E	176.998	5	2106	928	13	-	-	400
10170F	177.566	6	1797	904	21	-	-	365
10170G	178.318	6	3422	1842	15	178.40	7	366
10170H	178.570	6	4247	2311	15	-	-	378
10170J	179.247	6	6388	3206	NC	179.10	86	386
10181A	11.144	1	35	-	NC	-	-	367
10181B	12.644	1	826	-	NC	-	-	505
10181C	13.244	6	6372	3181	NC	13.20	47	394
10181D	13.944	6	4147	2399	15	-	-	382
10181E	14.241	6	3563	1759	13	14.15	4	411
10181F	14.745	6	5713	2339	10	-	-	446
10181G	15.241	4	1657	872	10	-	-	510
10181H	15.742	4	701	384	14	-	-	526
10185A	104.598	1	144	-	NC	-	-	472
10185B	107.880	3	195	90	7	-	-	393
10185C	109.283	6	1126	571	20	-	-	488
10185D	109.918	6	6386	3190	41	-	-	507
10185E	110.464	6	2414	1488	19	-	-	452
10185F	110.716	6	3167	1579	13	-	-	452
10185G	111.366	6	6139	2658	9	-	-	484
10185H	111.871	5	2129	1087	10	-	-	510
10185J	112.417	5	998	530	14	-	-	520
10185K	115.330	3	117	30	4	-	-	442
10185L	115.713	3	114	34	3	-	-	456
10190A	189.322	3	163	55	11	-	-	350
10190B	191.672	6	6388	3207	NC	191.60	96	370
10190C	192.352	6	3581	2112	18	-	-	387
10190D	193.795	6	2850	1130	17	-	-	432
10190E	194.039	6	2959	1141	13	194.10	146	442
10190F	194.445	6	2916	1568	13	-	-	474
10190G	195.244	4	1472	732	11	-	-	504
10190H	198.621	2	60	30	NC	-	-	464
10190J	199.156	2	60	30	NC	-	-	411
10190K	199.522	1	38	-	NC	-	-	482

FINAL ANOMALY	ANOMALY FIDUCIAL	CHS	CH1.AMP	CH2.AMP	SIEMENS	MAGNETIC FIDUCIAL	VALUE	ALT
10190L	199.919	2	60	30	NC	-	-	462
10190M	202.399	1	59	-	NC	-	-	509
10200A	29.997	5	480	237	12	-	-	387
10200B	30.444	5	639	303	13	-	-	422
10200C	31.120	6	2836	1789	24	-	-	394
10200D	31.890	6	2761	1419	12	31.85	24	400
10205A	93.896	3	281	122	9	-	-	512
10205B	94.492	5	947	455	11	94.55	59	484
10205C	95.114	6	1466	684	16	95.05	20	376
10205D	95.489	6	1297	681	21	-	-	459
10205E	96.344	6	2735	1538	21	96.50	21	464
10205F	96.994	6	1838	1088	18	-	-	442
10205G	98.063	4	513	236	11	98.15	24	392
10212A	44.465	3	325	139	14	-	-	432
10212B	44.944	6	2390	1286	15	-	-	425
10212C	45.323	6	2769	1655	22	-	-	464
10212D	46.043	4	475	222	12	-	-	440
10212E	46.595	3	45	30	1			440
10213A	53.624	1	72	-	NC	-	-	427
10220A	56.495	5	1351	660	8	-	-	504
10220B	56.820	4	691	232	5	56.80	17	483
10220C	66.716	1	61	-	NC	-	-	428
10220D	67.948	3	430	160	6	-	-	398
10220E	68.397	3	380	158	7	-	-	383
10220F	68.798	2	223	108	NC	-	-	363
10220G	69.768	6	505	294	21	-	-	371
10220H	69.994	6	755	458	19	-	-	395
10220J	70.414	6	1083	611	14	-	-	408
10231A	84.277	6	1671	894	14	84.20	32	435
10231B	84.651	6	1384	810	23	-	-	478
10231C	91.289	2	241	30	NC	-	-	484
10231D	92.119	2	128	41	NC	-	-	506
10231E	93.768	1	60	-	NC	-	-	386
10236A	76.264	6	2074	1138	16	-	-	458
10236B	76.638	6	3252	1976	24	-	-	475
10236C	77.346	6	783	368	12	-	-	504
10236D	77.762	3	233	113	10	-	-	506
10236E	80.025	2	60	30	NC	-	-	382
10236F	83.519	2	60	30	NC	-	-	448
10236G	83.930	3	109	36	7	-	-	476
10236H	84.638	2	60	30	NC	-	-	467

FINAL ANOMALY	ANOMALY FIDUCIAL	CHS	CH1.AMP	CH2.AMP	SIEMENS	MAGNETIC FIDUCIAL	VALUE	ALT
10237A	119.344	1	61	-	NC	-	-	491
10237B	122.695	2	268	30	NC	-	-	466
10237C	126.442	2	109	39	NC	-	-	437
10237D	127.722	3	131	47	6	-	-	430
10237E	128.340	3	196	53	5	-	-	456
10237F	128.994	3	268	86	4	-	-	442
10237G	129.544	3	284	122	7	-	-	418
10237H	132.019	5	1225	533	9	-	-	443
10237J	132.439	3	781	259	5	-	-	426
10237K	132.737	4	781	309	8	-	-	458
10237L	133.893	3	162	55	5	-	-	440
10237M	134.618	3	112	42	5	-	-	502
10240A	98.523	1	135	-	NC	-	-	430
10240B	98.875	1	135	-	NC	-	-	474
10240C	103.699	1	176	-	NC	-	-	479
10240D	104.244	2	201	78	NC	-	-	460
10240E	104.614	3	217	105	9	-	-	358
10240F	106.670	6	1054	477	10	-	-	448
10240G	107.117	3	623	211	7	-	-	414
10240H	107.392	4	714	269	8	-	-	400
10240J	108.741	2	117	43	NC	-	-	422
10251A	116.844	4	461	208	9	-	-	392
10251B	117.047	4	455	224	10	-	-	434
10251C	117.720	5	1011	458	9	-	-	376
10251D	117.990	4	1189	427	7	-	-	354
10252A	118.537	4	274	124	9	-	-	498
10252B	118.794	4	318	138	8	-	-	415
10252C	119.344	5	311	171	16	-	-	467
10252D	122.370	2	255	63	NC	-	-	406
10260A	132.747	3	184	93	13	-	-	414
10260B	134.644	4	322	127	9	-	-	446
10260C	135.299	6	6263	3196	13	135.30	36	484
10260D	136.869	5	710	315	9	-	-	426
10260E	137.174	6	1035	429	11	-	-	414
10260F	137.945	3	522	137	4	137.85	88	427
10260G	138.347	2	203	75	NC	-	-	428
10260H	139.240	5	1929	725	7	139.15	102	374
10260J	140.244	1	169	-	NC	-	-	414
10260K	140.971	1	157	-	NC	-	-	456
10260L	141.286	1	144	-	NC	-	-	449
10260M	142.640	1	91	-	NC	-	-	400
10271A	152.891	4	636	233	8	-	-	402
10271B	153.234	6	1111	528	13	153.20	124	431
10271C	153.441	6	1442	670	11	-	-	470
10271D	154.744	6	6383	3199	15	-	-	507

FINAL ANOMALY	ANOMALY FIDUCIAL	CHS	CH1.AMP	CH2.AMP	SIEMENS	MAGNETIC FIDUCIAL	VALUE	ALT
10280A	161.310	3	143	62	9	-	-	464
10280B	162.221	5	477	250	15	162.25	153	398
10280C	163.218	6	2221	1217	19	-	-	456
10280D	163.692	6	4105	2089	14	-	-	505
10280E	164.093	6	4618	2783	19	-	-	497
10280F	164.895	6	4821	2498	13	164.95	16	414
10280G	165.296	6	1724	906	17	-	-	486
10280H	165.815	6	1955	967	15	-	-	386
10280J	166.884	6	2199	1102	16	-	-	401
10280K	167.056	6	2065	1008	17	-	-	383
10280L	167.665	6	2712	1588	23	167.75	162	379
10280M	168.647	4	818	336	8	-	-	424
10280N	168.795	4	721	301	8	-	-	424
10280P	170.050	2	137	66	NC	-	-	423
10280R	170.776	2	178	79	NC	170.75	45	449
10280S	171.218	2	159	63	NC	-	-	414
10280T	171.799	2	106	48	NC	-	-	490
10285A	58.631	6	3897	2610	NC	-	-	507
10285B	59.127	6	2419	1275	18	-	-	470
10285C	59.840	6	1213	611	17	-	-	446
10285D	60.115	6	2241	1308	22	60.20	164	416
10285E	60.810	4	2613	977	8	-	-	440
10285F	61.301	6	2541	1383	15	-	-	494
10285G	61.518	6	2351	1533	33	-	-	467
10285H	61.843	6	6382	3188	52	61.70	61	504
10290A	15.053	6	1071	618	20	-	-	411
10290B	15.789	6	6377	3185	37	15.60	54	463
10290C	16.217	6	2774	1777	26	-	-	419
10290D	16.443	6	3636	1967	15	-	-	395
10290E	16.840	4	3739	1405	8	-	-	389
10290F	17.249	6	1517	786	16	-	-	478
10290G	17.804	6	1820	876	15	-	-	424
10290H	18.137	6	1786	917	16	-	-	448
10290J	19.157	6	1248	623	14	-	-	520
10290K	19.951	6	3917	2234	15	-	-	464
10290L	20.852	5	4926	2381	11	-	-	430
10290M	21.650	6	1795	988	19	-	-	366
10300A	26.883	6	578	284	17	-	-	408
10300B	27.347	6	1375	628	12	-	-	448
10300C	27.698	6	2016	1231	23	-	-	379
10300D	28.270	6	6375	3182	40	-	-	495
10300E	28.713	6	6375	3182	23	-	-	508
10300F	28.988	6	6100	3182	29	-	-	509
10300G	29.714	6	3600	2159	19	-	-	419
10300H	30.364	5	993	551	24	-	-	474
10300J	30.746	4	862	455	16	-	-	468
10300K	31.765	6	6374	3182	9	-	-	440

FINAL ANOMALY	ANOMALY FIDUCIAL	CHS	CH1.AMP	CH2.AMP	SIEMENS	MAGNETIC FIDUCIAL	VALUE	ALT
10300L	32.289	5	6174	3104	9	-	-	406
10300M	33.335	4	4474	2133	8	-	-	413
10300N	34.197	6	4290	2210	14	34.25	28	434
10300P	34.470	6	5021	2777	17	-	-	426
10300R	34.710	6	3311	2092	29	-	-	440
10300S	35.066	6	6374	3181	150	34.90	120	406
10300T	36.347	3	60	30	7	36.20	54	451
10300W	38.443	2	60	30	NC	-	-	386
10300Y	38.989	2	60	30	NC	-	-	418
10310A	43.342	2	60	30	NC	43.30	51	384
10310B	45.425	6	6372	3179	NC	45.35	53	414
10310C	45.993	6	4641	2650	19	45.95	32	424
10310D	46.219	6	3928	2134	16	-	-	414
10310E	46.864	6	3894	2106	12	-	-	432
10310F	47.671	5	3969	2117	10	-	-	436
10310G	48.076	5	5912	3173	9	-	-	518
10310H	49.136	6	2809	1685	22	-	-	499
10320A	49.994	6	4024	2613	6	-	-	456
10320B	51.765	4	4943	2005	6	51.80	225	419
10320C	52.045	6	4940	2425	11	-	-	419
10320D	52.541	5	3180	1475	12	-	-	442
10320E	53.010	4	2393	1128	10	52.95	18	386
10320F	53.349	4	1964	1011	12	53.30	7	392
10320G	54.035	6	2505	1422	19	-	-	395
10320H	54.549	6	6371	3178	6	-	-	419
10320J	55.147	6	6008	3178	NC	55.05	123	354
10320K	55.436	6	6370	3178	NC	-	-	360
10320L	55.833	6	6370	3178	NC	-	-	354
10320M	57.958	2	64	30	NC	-	-	408
10320N	59.576	2	60	30	NC	-	-	504
10320P	60.271	2	60	30	NC	-	-	414
10320R	60.622	1	35	-	NC	-	-	432
10330A	68.037	6	6368	3176	NC	-	-	395
10330B	68.495	6	4478	2679	20	68.45	60	420
10330C	68.942	6	5678	2935	14	-	-	443
10330D	70.038	5	3937	2002	11	-	-	404
10330E	70.534	6	6368	3175	11	-	-	392
10330F	71.660	6	3896	2308	23	71.65	57	467
10340A	72.293	6	4958	3175	6	-	-	410
10340B	73.006	5	1214	703	20	-	-	472
10340C	75.293	6	4317	2281	13	-	-	350
10340D	76.347	6	3745	2040	14	-	-	383
10340E	76.654	6	2992	1824	20	76.80	161	355
10340F	77.493	6	6367	3174	10	-	-	393
10340G	77.935	6	5695	3174	NC	78.00	21	416
10340H	78.229	6	4623	2747	20	-	-	415
10340J	78.639	6	3795	2400	22	78.65	84	408

FINAL ANOMALY	ANOMALY FIDUCIAL	CHS	CH1.AMP	CH2.AMP	SIEMENS	MAGNETIC FIDUCIAL	VALUE	ALT
10340K	79.088	6	6367	3174	9	-	-	382
10340L	79.287	6	6366	3174	NC	-	-	394
10340M	80.068	6	5223	2481	11	-	-	342
10340N	81.060	2	194	75	NC	-	-	437
10340P	82.583	1	44	-	NC	-	-	411
10340R	83.513	1	35	-	NC	-	-	419
10340S	84.027	1	41	-	NC	-	-	420
10340T	84.780	3	75	30	8	-	-	491
10350A	86.277	1	30	-	NC	-	-	400
10350B	86.787	1	30	-	NC	-	-	466
10350C	89.867	1	49	-	NC	-	-	392
10350D	91.437	2	161	67	NC	-	-	488
10350E	92.041	4	414	171	11	-	-	355
10350F	92.249	4	452	184	10	-	-	354
10351A	93.592	6	589	251	15	-	-	363
10351B	94.747	6	6364	3171	8	-	-	412
10351C	94.946	6	6364	3171	NC	-	-	446
10351D	95.388	6	2904	1786	22	-	-	472
10351E	95.681	6	2873	1760	23	-	-	428
10351F	95.988	6	4939	3158	6	-	-	484
10351G	97.588	6	5448	2261	7	97.55	224	416
10360A	98.793	5	485	211	14	-	-	419
10360B	99.073	3	369	158	10	-	-	442
10360C	99.694	4	541	248	14	-	-	396
10360D	100.019	4	619	334	14	-	-	387
10360E	100.456	5	2032	857	9	-	-	339
10360F	100.939	5	2972	1204	9	-	-	371
10360G	101.408	6	4150	2171	12	-	-	358
10360H	101.841	4	3747	1399	9	101.85	32	344
10360J	102.653	6	4010	2273	16	-	-	427
10360K	103.432	6	6363	3169	7	-	-	356
10360L	103.631	6	6362	3169	NC	-	-	390
10360M	104.037	6	6362	3169	NC	-	-	326
10360N	104.240	6	6362	3169	NC	104.15	247	342
10360P	104.474	6	6256	3169	NC	-	-	374
10360R	105.011	5	3219	1663	12	-	-	412
10360S	105.345	6	2284	1377	24	-	-	498
10360T	105.742	6	6362	3169	6	105.70	107	410
10360W	106.999	4	1468	553	6	-	-	364
10360Y	107.333	4	653	237	7	-	-	410
10360Z	108.154	2	60	30	NC	-	-	418
10360AA	108.858	2	60	30	NC	-	-	383
10360BB	109.758	2	60	30	NC	-	-	400
10370A	112.656	2	60	30	NC	-	-	446
10370B	113.057	2	60	30	NC	-	-	418
10370C	113.412	2	60	30	NC	-	-	408
10370D	114.653	2	60	30	NC	-	-	402

FINAL ANOMALY	ANOMALY FIDUCIAL	CHS	CH1.AMP	CH2.AMP	SIEMENS	MAGNETIC FIDUCIAL	VALUE	ALT
10370E	116.374	2	60	30	NC	-	-	363
10370F	116.925	2	60	30	NC	-	-	355
10370G	117.646	2	173	45	NC	-	-	370
10370H	118.125	4	4094	1523	5	-	-	374
10370J	118.770	6	1826	1006	17	-	-	502
10370K	119.490	6	3247	2101	29	-	-	452
10370L	119.738	6	3950	2345	22	-	-	464
10370M	119.941	6	3782	2376	28	-	-	423
10370N	120.298	6	4675	2388	13	-	-	416
10370P	120.997	3	2316	1080	10	-	-	376
10370R	121.516	6	3278	2038	26	-	-	336
10370S	121.795	6	6360	3166	22	-	-	362
10370T	122.066	6	6359	3166	44	-	-	370
10370W	122.635	6	6359	3166	35	-	-	328
10370Y	123.346	6	4012	2272	17	-	-	427
10370Z	123.892	6	2475	1300	13	-	-	467
10380A	124.871	4	284	139	20	-	-	440
10380B	125.625	5	806	423	15	-	-	403
10380C	126.094	6	2703	1283	10	-	-	368
10380D	126.674	6	2706	1517	15	-	-	408
10380E	127.355	6	4102	2281	17	-	-	360
10380F	127.784	6	6359	3165	34	-	-	392
10380G	128.619	6	6327	3165	33	128.60	28	340
10380H	128.989	6	5074	3165	20	-	-	399
10380J	129.794	6	4558	2496	17	-	-	452
10380K	130.440	4	2021	1012	12	-	-	504
10380L	130.670	6	1874	1118	23	-	-	514
10380M	130.945	4	1921	1094	15	-	-	507
10380N	131.198	6	1986	1130	19	131.15	55	440
10380P	132.046	6	1777	888	11	-	-	513
10380R	133.167	1	108	-	NC	-	-	408
10380S	135.134	4	95	30	54	-	-	360
10380T	135.617	2	79	30	NC	-	-	392
10390A	138.020	2	60	30	NC	-	-	323
10390B	138.471	2	60	30	NC	-	-	322
10391A	141.487	6	2038	994	10	-	-	483
10391B	142.644	6	2040	1177	20	-	-	490
10391C	143.091	6	2872	1687	18	-	-	490
10391D	144.363	6	2025	1173	25	-	-	392
10392A	145.420	6	1846	1048	22	-	-	451
10392B	145.862	6	5709	3160	14	-	-	438
10392C	146.943	6	6355	3162	28	-	-	369
10392D	147.543	6	2868	1519	15	147.65	173	417
10392E	148.044	6	2696	1469	15	-	-	402
10392F	148.391	6	2352	1165	11	-	-	418
10392G	148.694	5	889	446	14	-	-	402

FINAL ANOMALY	ANOMALY FIDUCIAL	CHS	CH1.AMP	CH2.AMP	SIEMENS	MAGNETIC FIDUCIAL	VALUE	ALT
10400A	150.619	5	705	358	14	-	-	430
10400B	151.242	6	2239	1072	10	151.00	155	415
10400C	151.648	6	2361	1230	14	-	-	441
10400D	152.139	6	1642	966	20	-	-	513
10400E	152.843	6	3611	1962	14	-	-	513
10400F	153.333	6	2339	1297	15	-	-	507
10400G	153.721	4	1739	917	13	-	-	465
10400H	154.272	6	1535	809	17	-	-	498
10400J	154.732	6	2501	1390	20	-	-	512
10400K	155.395	6	6354	3160	39	-	-	366
10400L	155.923	6	6354	3160	14	-	-	396
10400AX	149.200	6	2649	1514	11			440
19010A	11.493	6	3813	2202	17	-	-	472
19010B	11.890	6	4163	2470	23	-	-	490
19010C	12.283	6	4547	2933	24	-	-	500
19010D	12.946	5	2219	1252	15	-	-	512
19010E	13.591	2	1085	602	NC	13.55	8	530
19010F	15.868	4	335	143	9	-	-	486
19011A	17.635	2	129	47	NC	-	-	510
19011B	18.537	4	388	125	8	18.60	27	472
19011C	20.116	1	142	-	NC	-	-	419
19011D	22.781	6	479	255	26	-	-	450
19011E	23.458	6	6379	3187	24	-	-	440
19011F	24.219	5	1998	1057	13	-	-	499
19011G	24.512	5	4776	2469	11	24.45	13	470
19011H	25.283	6	6379	3187	39	-	-	428
19011J	25.495	6	6379	3187	35	-	-	449
19011K	26.312	6	3286	2180	37	26.20	11	504
19011L	26.795	6	2536	1771	46	-	-	512
19011M	27.952	6	4998	2870	19	-	-	444
19011N	28.313	6	4098	2791	6	-	-	452
19020A	29.997	6	5386	3187	36	-	-	515
19020B	30.841	6	6380	3187	62	-	-	452
19020C	31.574	6	5396	3187	43	-	-	498
19020D	33.040	1	177	-	NC	-	-	522
19020E	33.618	1	108	-	NC	-	-	472
19020F	45.282	6	1740	917	15	-	-	520
19020G	46.257	6	1156	644	22	-	-	503
19020H	46.920	3	706	323	11	-	-	494

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INPUT

DECAY INTERVAL CLASSIFICATION

- 1 Channel (340 microseconds)
- 2 Channel (540 microseconds)
- 3 Channel (840 microseconds)
- 4 Channel (1240 microseconds)
- 5 Channel (1740 microseconds)
- 6 Channel (2340 microseconds)

Selected Channel Half-width Limit
Conductivity - Thickness
Decay Interval Classification
Associated Magnetic Peak
Channel 2 Amplitude
POSITIVE RESPONSE

GEOLOGICAL BRANCH
ASSESSMENT REPORT

11,670

part #1 of 3

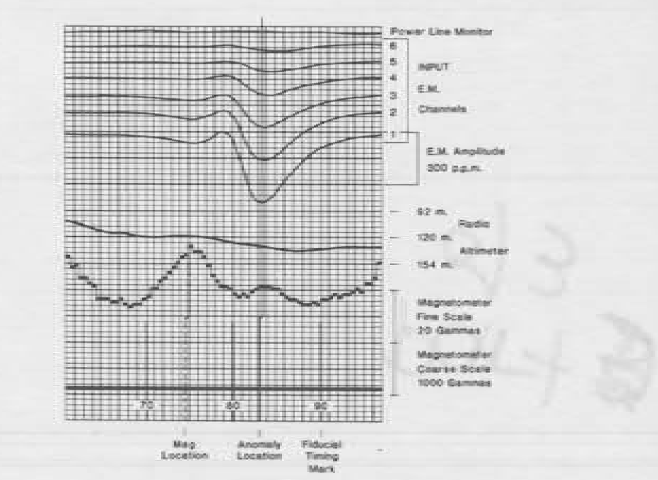
MAGNETIC CONTOURS

- 10 Gamma Contour Line
- 50 Gamma Contour Line
- 500 Gamma Contour Line
- Magnetic Depression

1 Gamma = 1 Nanotesla in SI Units

INTERPRETATION

- Conductor Axis, with reference number (good definition)
- Conductor Axis, with reference number (poor definition)
- Vertical Conductor
- Conductor Dip
- Selected Zone, with reference number
- Surficial Conductivity
- Fault Zone



Representative INPUT Magnetometer and Altimeter Recording

DESCRIPTIVE NOTES

The aircraft is equipped with the Barringer/Questor Mark VI INPUT* airborne E.M. System and the Sonotek PMH 5010 Proton Precession Magnetometer and Sonotek SDS-1200 Series Data Acquisition System. The INPUT* system will respond to conductive overburden and near surface horizontal conducting layers in addition to bedrock conductors. Discrimination of conductors is based on the rate of transient decay, magnetic correlation and the anomaly shape, together with the conductor pattern and topography.

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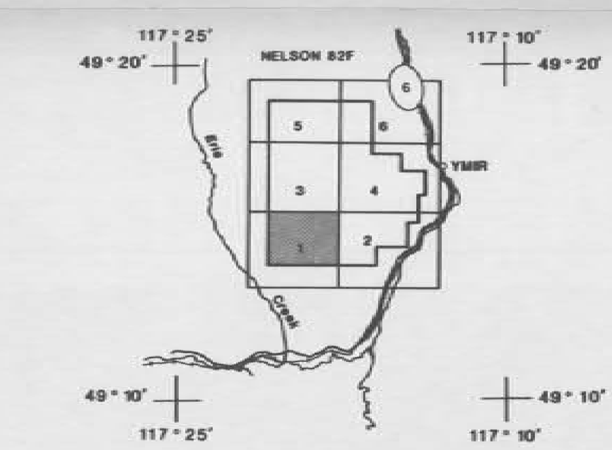

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HELICOPTER MK VI INPUT® SURVEY
(Vertical Coil)
TOTAL MAGNETIC INTENSITY SURVEY

SELCO INC.

YMIR AREA

Province of BRITISH COLUMBIA

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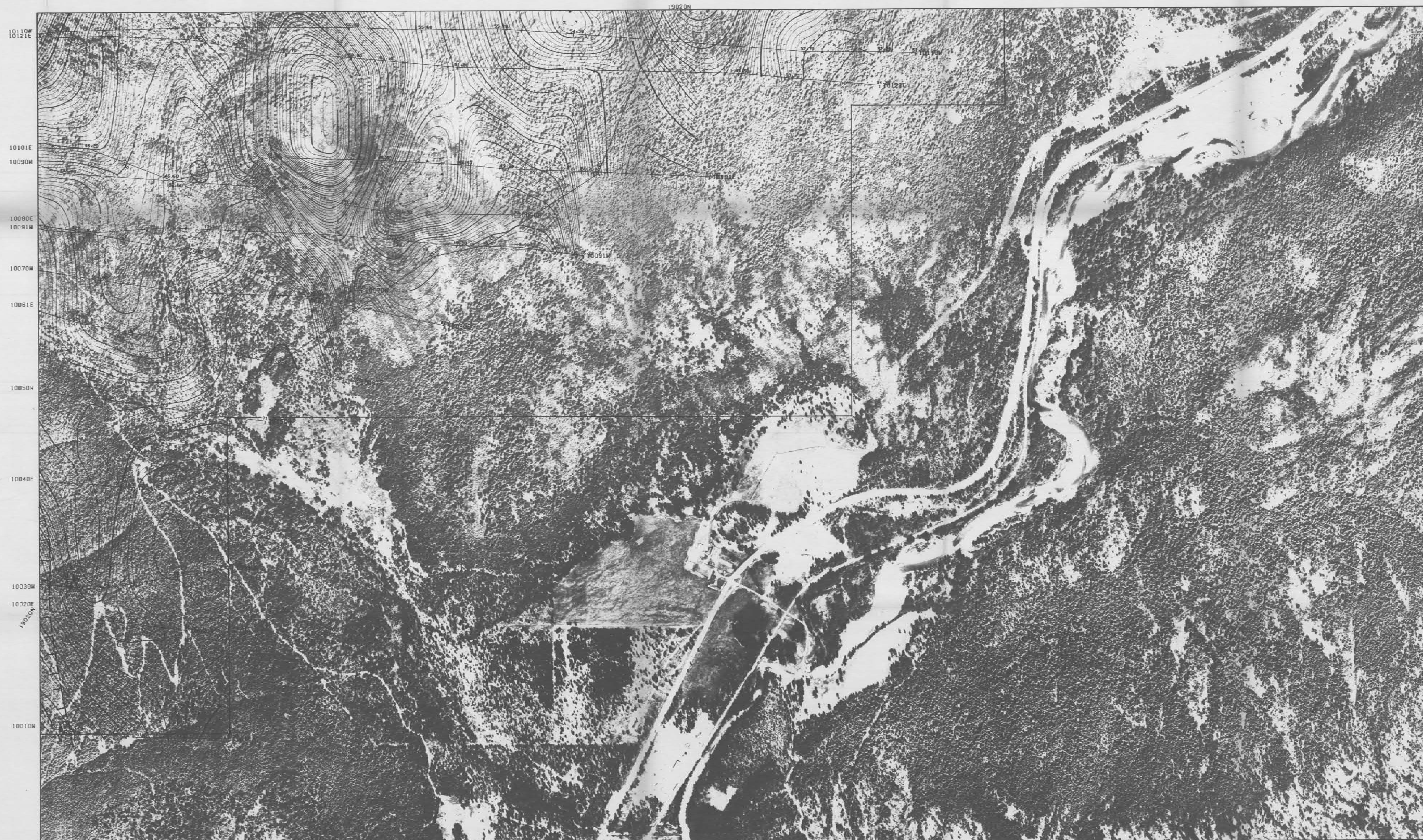
24H59	1 of 6	JAN.,1983	Dataplotting Services Inc.

Questor Surveys Limited
Mississauga, Ontario Canada



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DECAY INTERVAL CLASSIFICATION

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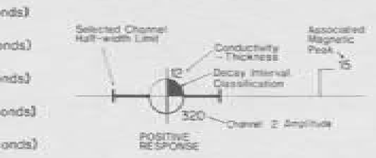


GEOLOGICAL BRANCH
ASSESSMENT REPORT

11,670

Part 1 of 3

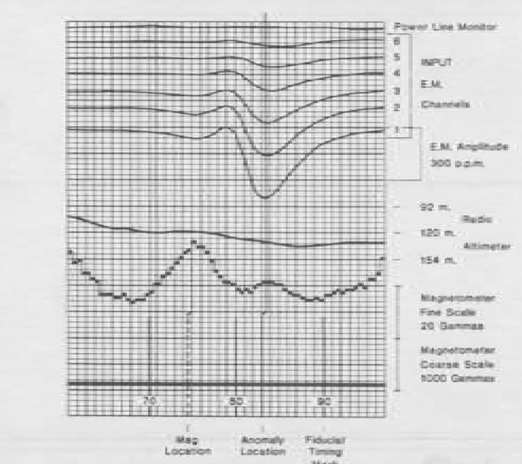
MAGNETIC CONTOURS

- 10 Gamma Contour Line
- 50 Gamma Contour Line
- 500 Gamma Contour Line
- Magnetic Depression

* Gamma = 1 Nanotesla in SI Units

INTERPRETATION

- Conductor Axis, with reference number (good definition)
- Conductor Axis, with reference number (poor definition)
- Vertical Conductor
- Conductor Dip
- Selected Zone, with reference number
- Surficial Conductivity
- Fault Zone



Representative INPUT Magnetometer and Altimeter Recording

DESCRIPTIVE NOTES

The aircraft is equipped with the Barringer/Questor Mark VI INPUT* airborne E.M. System and the Sonotek PMH 5010 Proton Precession Magnetometer and Sonotek SDS-1200 Series Data Acquisition System. The INPUT* system will respond to conductive overburden and near-surface horizontal conducting layers in addition to bedrock conductors. Discrimination of conductors is based on the rate of transient decay, magnetic correlation and the anomaly shape, together with the conductor pattern and topography.

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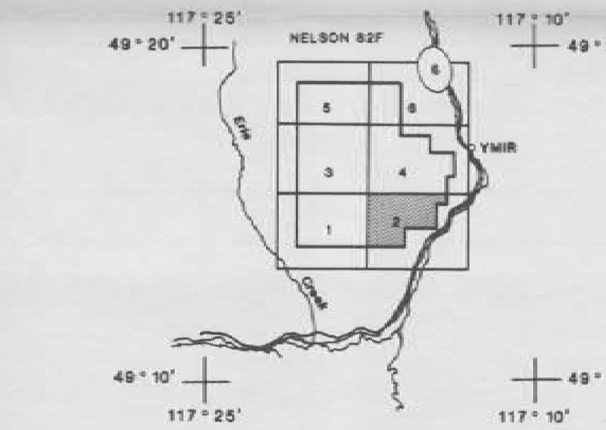

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INPUT

DECAY INTERVAL CLASSIFICATION

- 1 Channel (340 microseconds)
- 2 Channel (540 microseconds)
- 3 Channel (840 microseconds)
- 4 Channel (1240 microseconds)
- 5 Channel (1740 microseconds)
- 6 Channel (2340 microseconds)

Selected Channel Half-width Limit; Conductivity –Thickness; Decay Interval Classification; Associated Magnetic Peak; Channel 2 Amplitude; POSITIVE RESPONSE

GEOLOGICAL BRANCH
ASSESSMENT REPORT

11,670

part 1 of 3

MAGNETIC CONTOURS

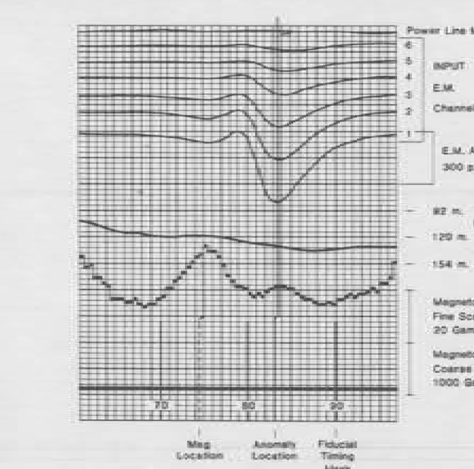
- 10 Gamma Contour Line
- 50 Gamma Contour Line
- 500 Gamma Contour Line

Magnetic Depression

1 Gamma = 1 Nanotesla in SI Units

INTERPRETATION

- Conductor Axis, with reference number (good definition)
- Conductor Axis, with reference number (poor definition)
- Vertical Conductor
- Conductor Dip
- Selected Zone, with reference number
- Surficial Conductivity
- Fault Zone



Representative INPUT Magnetometer and Altimeter Recording

DESCRIPTIVE NOTES

The aircraft is equipped with the Barringer/Questor Mark VI INPUT* airborne E.M. System and the Sonotek PMH 5010 Proton Precession Magnetometer and Sonotek SDS-1200 Series Data Acquisition System. The INPUT* system will respond to conductive overburden and near-surface horizontal conducting layers in addition to bedrock conductors. Discrimination of conductors is based on the rate of transient decay, magnetic correlation and the anomaly shape, together with the conductor pattern and topography.

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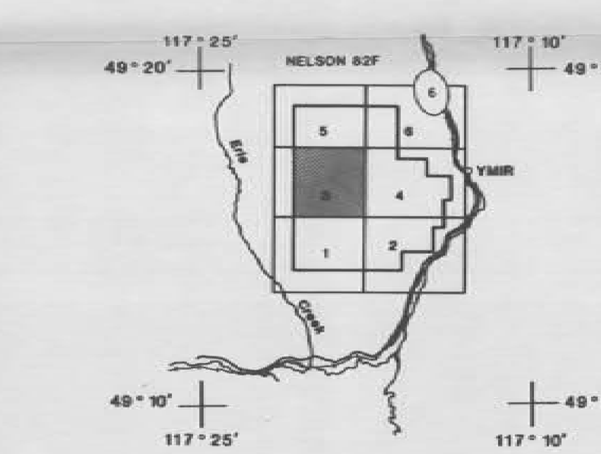

Scale approx. 1: 5000

HELICOPTER MK VI INPUT® SURVEY
(Vertical Coil)
TOTAL MAGNETIC INTENSITY SURVEY

SELCO INC.

YMIR AREA

Province of BRITISH COLUMBIA

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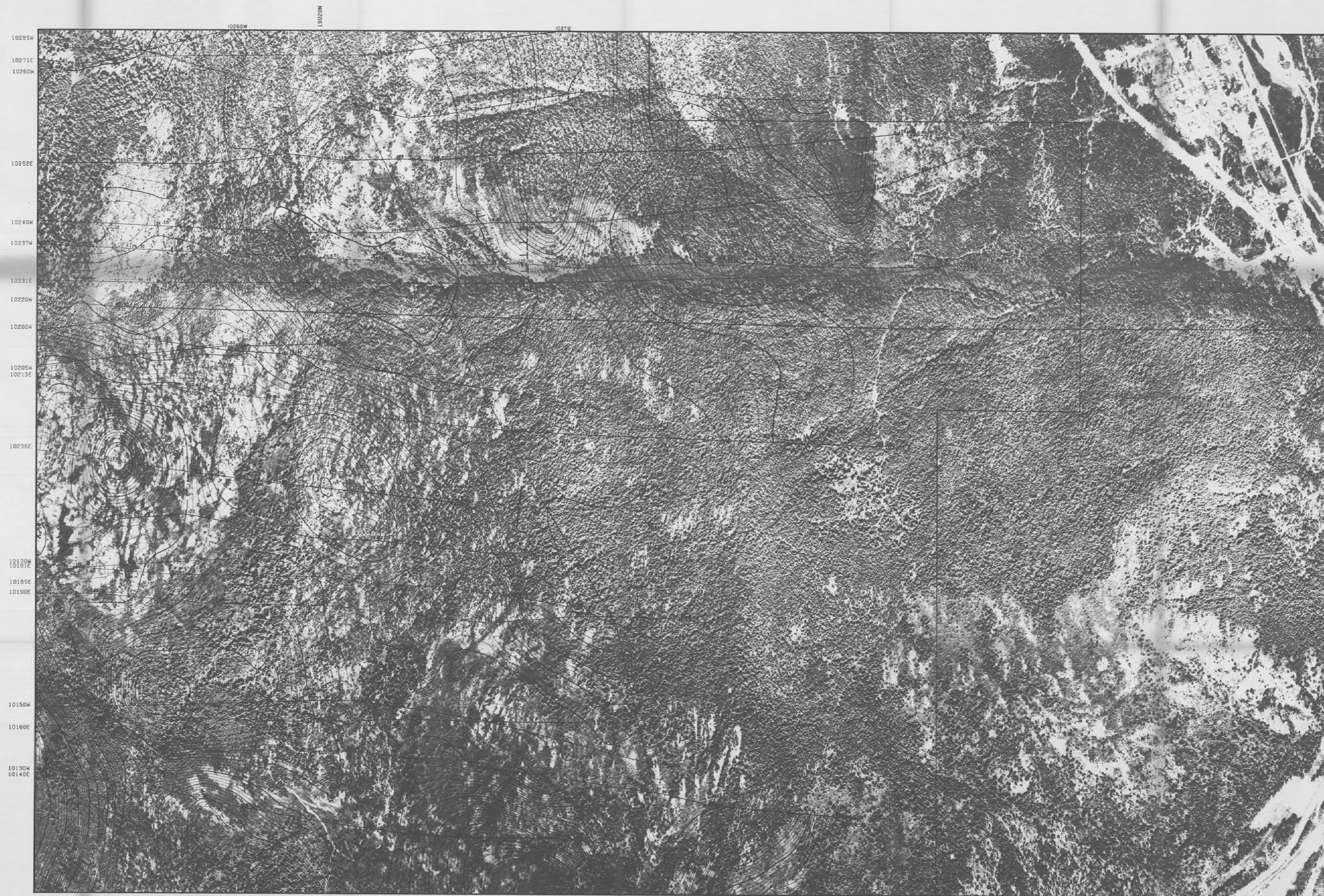
Mississauga Ontario Canada



INPUT

DECAY INTERVAL CLASSIFICATION

1 Channel (340 microseconds)
2 Channel (540 microseconds)
3 Channel (840 microseconds)
4 Channel (1240 microseconds)
5 Channel (1740 microseconds)
6 Channel (2340 microseconds)

Selected Channel Half-width Limit
Conductivity – Thickness
Decay Interval Classification
Associated Magnetic Peak
Channel 2 Amplitude
POSITIVE RESPONSE

GEOLOGICAL BRANCH
ASSESSMENT REPORT

11,670 part 1 of 3

MAGNETIC CONTOURS

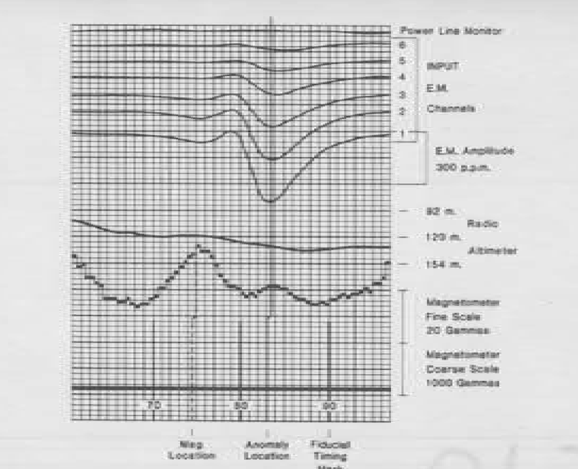
10 Gamma Contour Line
50 Gamma Contour Line
500 Gamma Contour Line

Magnetic Depression

1 Gamma = 1 Nanotesla in SI Units

INTERPRETATION

Conductor Axis, with reference number (good definition)
Conductor Axis, with reference number (poor definition)
Vertical Conductor
Conductor Dip
Selected Zone, with reference number
Surficial Conductivity
Fault Zone



Representative INPUT Magnetometer and Altimeter Recording

DESCRIPTIVE NOTES

The aircraft is equipped with the Barringer/Questor Mark VI INPUT* airborne E.M. System and the Sonotek PMH 5010 Proton Precession Magnetometer and Sonotek SDS-1200 Series Data Acquisition System. The INPUT* system will respond to conductive overburden and near-surface horizontal conducting layers in addition to bedrock conductors. Discrimination of conductors is based on the rate of transient decay, magnetic correlation and the anomaly shape, together with the conductor pattern and topography.

* Registered Trade Mark of Barringer Research Limited

INTERPRETATION REFERENCES

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1972: Scale Model Study of Time Domain Electromagnetic Response of Tabular Conductors; Canadian Mining and Metallurgical Bulletin, Volume 65, No. 725, p. 90-95.

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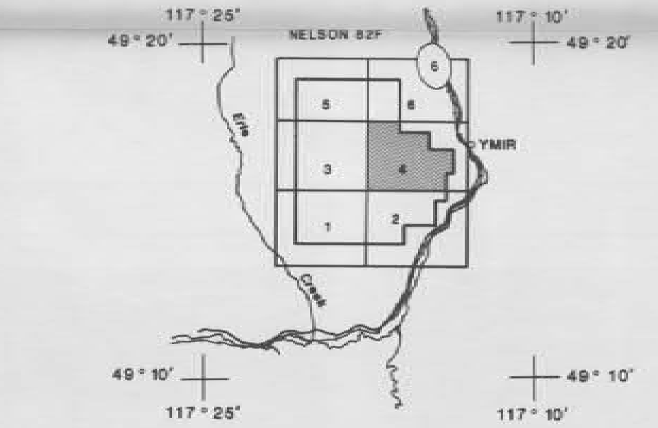

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(Vertical Coil)
TOTAL MAGNETIC INTENSITY SURVEY

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Mississauga, Ontario Canada

INPUT

DECAY INTERVAL CLASSIFICATION

1 Channel (340 microseconds)
2 Channel (540 microseconds)
3 Channel (840 microseconds)
4 Channel (1240 microseconds)
5 Channel (1740 microseconds)
6 Channel (2340 microseconds)

Selected Channel Half-width Limit — Conductivity-Thickness — Decay Interval Classification — Associated Magnetic Peak — Channel 2 Amplitude — POSITIVE RESPONSE

GEOLOGICAL BRANCH
ASSESSMENT REPORT

11,670 Part 1 of 3

MAGNETIC CONTOURS

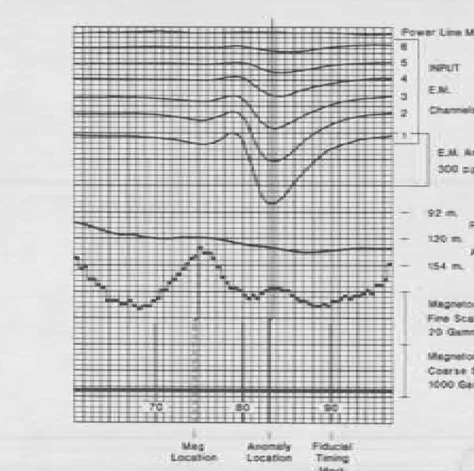
10 Gamma Contour Line
50 Gamma Contour Line
500 Gamma Contour Line

Magnetic Depression

1 Gamma = 1 Nanotesla in SI Units

INTERPRETATION

Conductor Axis, with reference number (good definition)
Conductor Axis, with reference number (poor definition)
Vertical Conductor
Conductor Dip
Selected Zone, with reference number
Surficial Conductivity
Fault Zone



Representative INPUT Magnetometer and Altimeter Recording

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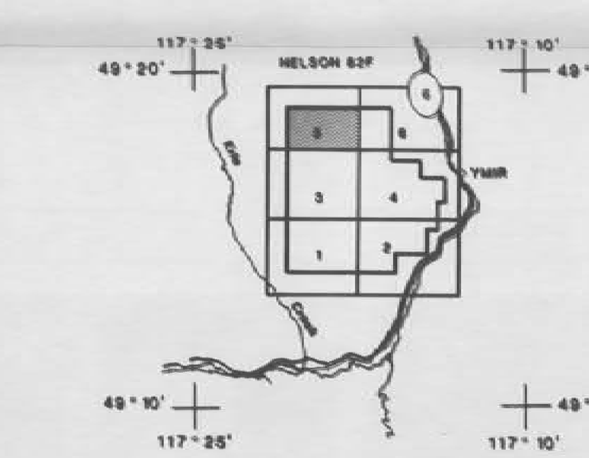

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(Vertical Coil)
TOTAL MAGNETIC INTENSITY SURVEY

SELCO INC.

YMIR AREA

Province of BRITISH COLUMBIA

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Mississauga Ontario Canada

INPUT

DECAY INTERVAL CLASSIFICATION

- 1 Channel (340 microseconds)
- 2 Channel (540 microseconds)
- 3 Channel (840 microseconds)
- 4 Channel (1240 microseconds)
- 5 Channel (1740 microseconds)

Selected Channel Half-width Limit · Conductivity-Thickness · Decay Interval Classification · Associated Magnetic Peak · Channel 2 Amplitude · POSITIVE RESPONSE

GEOLOGICAL BRANCH
ASSESSMENT REPORT

11,670

part 1 of 3

MAGNETIC CONTOURS

10 Gamma Contour Line

50 Gamma Contour Line

500 Gamma Contour Line

Magnetic Depression

1 Gamma = 1 Nanotesla in SI Units

INTERPRETATION

Conductor Axis, with reference number (good definition)

Conductor Axis, with reference number (poor definition)

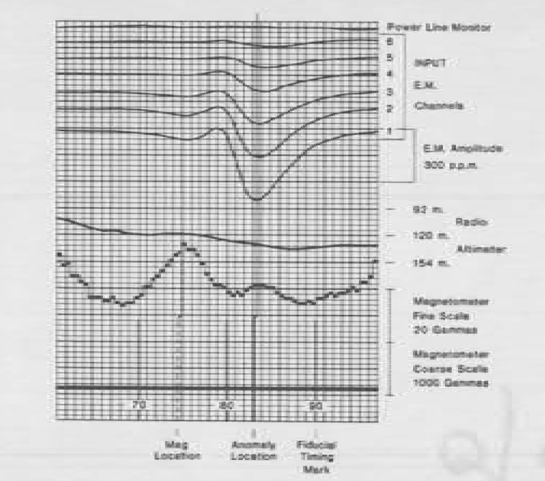
Vertical Conductor

Conductor Dip

Selected Zone, with reference number

Surficial Conductivity

Fault Zone



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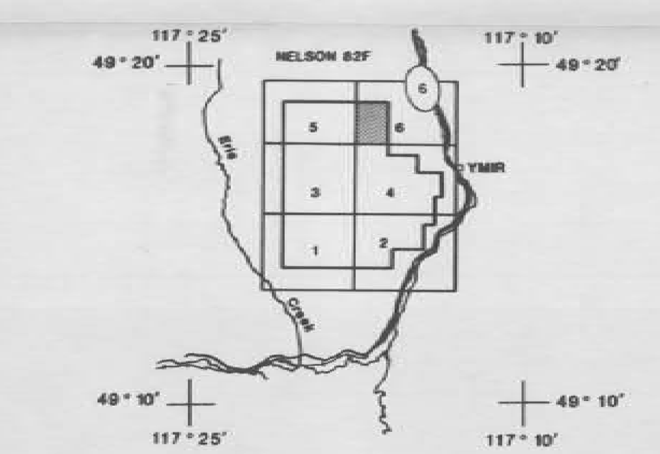

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TOTAL MAGNETIC INTENSITY SURVEY

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YMIR AREA

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