# BRITISH COLUMBIA PROSPECTORS ASSISTANCE PROGRAM MINISTRY OF ENERGY AND MINES GEOLOGICAL SURVEY BRANCH

PROGRAM YEAR:1995/1996REPORT #:PAP 95-48NAME:GUY ROYER

#### BRITISH COLUMBIA PROSPECTORS ASSISTANCE PROGRAM PROSPECTING REPORT FORM (continued)

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#### **B. TECHNICAL REPORT**

- One technical report to be completed for each project area.
- Refer to Program Requirements/Regulations, section 15, 16 and 17.
- If work was performed on claims a copy of the applicable assessment report may be submitted in lieu of the supporting data (*see* section 16) required with this TECHNICAL REPORT.

| Name GUY A.ROYER Reference Nu  | umber                                      |
|--|--|
| LOCATION/COMMODITIES         Project Area (as listed in Part A)       YAHK RIVER AREA         Location of Project Area       NTS       82G/04W |  |
| Description of Location and Access <u>Region lies ca.60 air kr</u>   | ns. southwest of Cranbrook and 30 air kms. |
| east of Creston. Hwy#3 is ca.12 kms.west of clair<br>rd, to reach VULCAN ONE also takes Cold Creek Ro  | d. Xanadu L.C.P.is on Road, Utopia 3.5 km. |
| Main Commodities Searched For Lead, Zinc, Copper, Silver a   |  |

(Very little work done on the specific claims according to assessment files).

Known Mineral Occurrences in Project Area <u>Tourmalinite-an N.B.indicator mineral for the Sullivan</u> <u>occurs on the south flank of Mt.Mahon,Old Midway gold mine lies ca ll kms,no.</u>

of area.

#### WORK PERFORMED

- 1. Conventional Prospecting (area) Done along vicinity of author's ground where unstaked.
- 2. Geological Mapping (hectares/scale) 1000 hectares@ 1:2500(Only 7% outcrop on claims.)
- 3. Geochemical (type and no. of samples) 78 5011 geochem-32 El. ICP.; 12 rocks-9 El. ICP.44 Hu

4. Geophysical (type and line km) Both VLF-EM and Magnetics, 100 line kms.done

5. Physical Work (type and amount) (none)

6,. Drilling (no,. holes, size, depth in m, total m) ..... (none)

7. Other (specify) \_\_\_\_\_\_ Extensive Draughting of Maps and Report Writing.

#### SIGNIFICANT RESULTS

| Commodities Zinc and Copper, tr.of Gold Claim Name XANADU and VULC   | AN  |
|--|---|
| Location (show on map) Lat <b>49</b> °03 'N&49°06 'N. Long 115°54 '&55 'W. Elevation 1372 m.&  | <u>1524 m.</u>                                  |
| Best assay/sample type For Soil(Xanadu)-148 ppm 2n and 134 ppm Cu.from the same sa   | mple.   |
| For Rock (VULCAND-138 ppm Zn and 64 ppm Cu with 10 ppb Au from same sample   |   |
| Description of mineralization, host rocks, anomalies <u>Best soil assay comes from rusty sedime</u><br>little visible sulphide mineralisation and no tourmalinite noted. Usually | <del>nts·VU</del> Y.<br><u>very fi</u> ne grnd. |
| pyrite noted (up to 10%) where both sediments and gabbros very rusty. In lim   | <u>ey Argi</u> llites                           |
| on east side of Vulcan (Where best rock assay comeG), are narrow stringers   | <u>of pyri</u> te                               |
| composing up to 10% of Rock. On east-central UTOPIA where rusty gabbros ho<br>ty quartz veins hosting up to 2% disseminated pyrite, very minor Magnetic a                        | <del>st_rare</del> rus-<br>nd VLF-EM            |
| -ty quartz veins hosting up to 22 disseminated pyrite  | t rock assay                                    |
| Consider the market in the state the TECHNICH DEBODT   | is found.                                       |

Supporting data must be submitted with this TECHNICAL REPORT

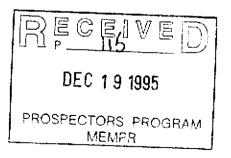
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1995 BRITISH CULUMBIA PROSPECTORS ASSISTANCE PROGRAM FINAL REPORT

GUY ROYER

FMC 123355, Dec 15/1995



#### INTRODUCTION to 1995 "BCPAP" REPORT

In late summer of 1995, I conducted a modest but comprehensive exploration program in the south Purcell Mountains in the southeastern corner of British Columbia in the Ft.Steele Mining Division. The area chosen for exploration lies specifically in the YAHK RIVER area on N.T.S. Map82C/04W in the Creston Region, adjacent to the United States border. All of the exploration was carried out on 3 separate claims adjacent to each other but not contiguous, with a bit of reconnaissance prospecting Jone on roads near these properties. I hold a total of 40 claim units encompassed by: 1, UTOPIA-12 Units, 2. XANADU-18 Units and 3. VULCAN-10 Units. All of these properties were mapped/prospected in great detail, surveyed geophysically by 2 methods, with a modest geochemical survey done over certain zones. All of these properties had chained and flagged grids established on them prior to the commencement of this exploration. The equipment utilized was a Silva compass and a hipchain calibrated in metres, with the newly blazed claim lines doubling as baselines. The 3 baselines trend east-west with perpindicular north-south survey lines nominally 100 metres apart covering almost the entirety of the claims. The total amount of surveyed grid amounts to call? kms. with about 38 of them on the XANADI, 34 kms.on the UTOPIA and ca.28 on the VULCAN. The chief reason that such a large amount of work could be completed by one person in 2 months is due to the relative gentleness of the topography and the fact that much of it has been very recently logged off. Relatively little time was expended in prospecting as outcrop varies from rare to non-existent over much of the area with the little rock observed often quite monotonous.

This corner of B.C. is the site of the gigantic Sullivan Mine in the town of Kimberley which has produced over a third of the mineral wealth of the province-its main commodities being lead, zinc and silver; it lies about 70 kms.north-northeast of and is on approximate strike with the area of interest. Much closer are the past producing lead-zinc mine-"St.Eugene" and the smaller gold Midway mine, which are ca.15 kms.northward The rocks in this region are of proterozoic age with the sediments belonging to the Aldridge, a sub-division of the Purcell System with intruding "Moyie" gabbro sills. In the past dozen years, some major exploration companies including Cominco, Minnova, Chevron, etc. have conducted major programs in vicinity of author's ground, with the former currently having mineral title to most of the claims. They hypothesize that a Sullivan-type-Sedimentary Exhalative("Sedex") deposit might be located in this region. Most of the exploration seems to have been concentrated in the immediate vicinity of Mt.Mahon, though much has been done northward to Moyie River and southward to Montana. I believe for reasons discussed in this report that such a deposit may lie on my claims. According to the assessment files in Cranbrook, very little or even po work has been specifically done over R<u>ec</u>ive them.

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#### LOCATION AND ACCESS to the RELEVANT MINING CLAIMS

All of my properties are located on N.T.S.Map 82G/04 W-"YAHK RIVER"and lie in the Yahk Range of the Purcell Mountains 60 air kms.south of the city of Cranbrock,640 air kms.east of the city of Vancouver and are adjacent to the state of Montana;highway #3 lies only a dozen kms.west. The exact geographical co-ordinates for the Legal Corner posts of the Claims are:UTOPIA-Latitude 49°North,Longtitude 115°54'West;XANADU-Lat. 49°02'N. and Long.115°55'W.;VULCAN-Lat.49°06'N.and Long.115°55'W.The south boundary of the UTOPIA coincides with the Canada/U.S.A.border which allows its exact location to be pinpointed.

All 3 properties are easily accessible by full-size 4 wheel drive vehicle for most of the year. They are all attainable by Yahk Meadows Road(Hawkins Creek Rd.)which commences easterly from Highway#3 just north of bridge across Moyie River in the village of Yahk; it is a wide all-weather gravel road open year round. One follows this road for about 12 kms.before one reaches an important junction; in order to access the VULCAN, one takes the north branch-"Cold Creek Rd." and follows this rough but gravelled road for ca.6 kms.before turning eastward on to a very rough, steep, but gravelled trail and follow wing it for about 2 kms.before attaining west border of VULCAN.

- In order to access the other 2 claims, one follows Yahk Meadows Rd. (passing by a ranch) for ca.5 kms.before attaining southwestern corner of XANADU; a rough but vehicle accessible trail heads off this "main"road, ca.150 metres east of this point permitting easy access to the entirety of the claim. The eastern edge of XANADU is traversed by the gravel "Freeman Creek®Road which cuts off northward of the Yahk main road ca.3 kms.east of the aforementioned turn-off. The UTOPIA CLAIM is attainable by turning south on a ... steep rough trail ca.1.5 kms.west of junction of Freeman Creek Rd.and the Yahk Meadows. This trail permits an easy route to the northern third of the claim as it traverses its entirety. Another old logging road crosses the southern part of the UTOPIA, but it is currently in such rough shape further downhill that it is not vehicle passable.

#### TOPOGRAPHY and VEGETY ATION

This region of the Purcell Mountains has very gentle topography by CordillernA standards with total vertical relief in the relevant area, barely attaining 1000 metres. The hills(they cannot be termed"mountains")have low rounded summits, and steep rawines seem to be lacking even in the higher elevations(the highest on my claims being 1740 m. on the U.S.A.border); albeit no major streams cross the area. The average topographic rise even in steeper areas never exceeds 35° from the horizontal-cliffs are totally missing. Old logging roads attain even the highest hills in this region with a minimum of switchbacking. Most of the VULCAN and much of UTOPIA HAVE BEEN RECENTLY LOGGED OFF, so there is very little vegetation here to impede one's progress; even where replanted the trees are so small one can step over them. However in some of the older logged areas, as on much of the VULCAN the regrowth is very dense and tangles and piles of old logs can make travel guite difficult; thick brush was sometimes encountered along creekbanks. Black spruce, Western Cedar, Birch, Aspen and Alder are the most common tree species. On the Montana border, gigantic tree stumps exceeding one metre in diameter attest to the size the trees here can attain.

#### GEOLOGICAL SUMMARY OF SOUTHERN PURCELL MOUNTAINS

Most of southeastern British Colubia is underlain by the Purcell system, which is divided here into 5 main units:Aldridge,Creston,Kitchener,Siyeh and Gateway;this system is of mid-proterozoic Helikian age. The Purcell rocks, which consist mainly of fine grained clastics and carbonates, were laid down in the "Beltian Trough", a simple elongated geosyncline in which up to 45000 ft.of dominantly shallow water sediments accumulated. The Aldridge Fm.totals 15000 ft.in thickness of which only 400 belong to the Lower Aldridge; the latter is notable for its rusty appearance in outcrop due to abundant iron sulphides, silicates and carbonates. It also features fine grained laminated guartzite and dark argillite with graded bedding, scour&fill structures, etc, indicating deposition in deep water. The Middle Aldridge, which is 9000 ft, thick is more ordered with less turbulence indicated and contains less disseminated sulphide. The Aldridge is divided in southeast B.C. into 3 main structural blocks by the northeast trending Cranbrook and Moyie faults. Each of these blocks forms a broad, northeast plunging anticline and it is in the anticlinal axis of the most northerly structural block that the Sullivan Mine is situated. The sediments in the Aldridge have been metamorphosed to the Upper Greenschist facies and are intruded by conformable gabbro sills-the "Moyie"rocks.

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The Mt.Mahon area is situated in the southernmost structural block-the"MOYie" and is underlain by Middle Aldridge Sediments and Moyie gabbro; these Moyie sills vary in composition from diorite to gabbro and from fine to coarse grained. The sediments are constituted of medium bedded quartzose greywacke intercalated withthin bedded siltstone, argillite and rare conglomerate occurring northeast of Mt.Mahon. As the Mt.Mahon sediments rarely reveal graded bedding, ripple marks, etc., they are probably representative of a thick turbiditic sequence. All the sediments in the Stone Creek area just northward, belong to the Middle Aldridge; they are mainly siltstone with minor argillite and the Moyie River fault transects it in a west-southwest to east-northeast orientation. The boundary between the Lower and Middle Aldridge intersects the Sullivan orebody and this division extends with a shallow dip across the Mt.Mahon area; the summit of it is the ter of a northeast plunging anticline which dips 15°-25°. On the south flank of Mt.Mahon are tourmaline rich argillite and a little tourmalinite-a massive, very hard, black, cherty appearing rock composed of very fine grained tourmaline needles. Tourmaline is an important indicator mineral at the Sullivan Mine; thus its prescence here on Mt.Mahon combined with its Lower/Middle Aldridge stratigraphy has caused alla to be a very significant mineral exploration target.

The Sullivan Mine is a gigantic 160 million ton lead-zinc-silver deposit grading 10% combined lead and zinc with ca.68 grams/Tonne silver; it is underlain by touvmalinisation and overlain by an albite-chlorite alteration halo. The ore minerals show excellent stratification and conformability with the enclosing sediments. It comprises high temperature replacements of thin bedded argillite of the Aldridge formation with the orebody lying on the east side of the Purcell Anticlinorium. The source of the ores has traditionally been advocated as epigenetic, with their genesis from the source magma of the Moyie Intrusions or alternatively the sources for the ores may lie elsewhere and these intrusions may have supplied the energy to ultimately engender this deposit. The hydrothermal theories vie with a syngenetic one which roughly states that the ores were deposited in the rocks as sediments and that they were reconstituted by regional metamorphism. Recently this latter theory has gained adherents, partially because the ironbearing minerals tend to be associated with primary sedimentary features. The lead, silver(and tin) tend to be most abundant towards the centre of the orebody, whilst towards the periphery zinc and antimony predominate. The St.Eugene Mine which produced from 1899-1929 lies just **Moy**th(15 kms.) from Mt.Mahon; from about 1 million tonnes of ore were extracted 14% lead, 5% zinc and 6 ozs./T. silver from a steeply dipping massive sulphide vein. The past producing Midway Gold mine lies a few kms.south of the St.Eugene; gold occurred here in a northerly striking quartz vein which cross-cuts Middle Aldridge rock.

#### SUMMARY OF PREVIOUS MINERAL EXPLORATION in REGION

In the early eighties to the present much mineral exploration has been carried out in the Mt.Mahon area ;though according to the assessment files very little was done in previous decades. Around 1907 R.Daly traversed this area during his monumental "Mapping of the Cordillera at 49<sup>th</sup> paralell", though none of his observations directly concern the area in question. According to the files, the first recorded work done here was in 1966 by Kennco Explorations in the Stone Creek watershed. They con ducted a soil geochemical survey, taking ca, 200 samples; but the results were apparently negative and ... no further work is recorded by them. From 1978-1981 St. Eugene Mines did work near the summit of Mt.Mahon including staking, mapping and diamond drilling; in 1980-81 Falconbridge was also active in this region. Just north of here in 1981, on ground owned by B. Downing, ground VLF-EM and Magnetic surveys were performed on a 4.5 km.cut grid, but no anomalies were recorded for either survey. During this period, the "LARCH" group! (now encompassed by the "CANAM"group) which lies just west of the XANADU, was staked by St.Eugene Mines, centred on Latitude 49°04'N.and Long.115°58'W. In early eighties they drilled 6 BQ holes with assays done for gold, silver, copper, lead and zinc but nothing encouraging was encountered.. They drilled to test EM-16 conductors and to acquire basic geological information as outcrop here is minimal. Thin pyrite seams were postulated to be the cause of the conductors; 1 hole was entirely in gabbro, 2 in Aldridge sediments with 3 in both lithologies. In 1980, a total of 237 soil samples were taken on a total of 20 kms.of grid-lead and zinc were found to be just barely anomalous locally. Immediately north of LARCH group lied the COLD group from which 142 samples were collected, whilst west on the RYAN group, St. Eugene Mines took 82 soils from 32 kms.of established grid; apparently

geophysics and prospecting was done over it, though there is no specific mention made in the files. In any case nothing anomalous was injdicated by these latter geochemical surveys.

By 1983 Chevron Minerals had acquired "St.Eugene"s Mt.Mahon ground and in 1983-84 they did gravity surveys over it, which were quite inconclusive, albeit 2 gravity anomalies were said to be revealed. They also carried out major geochemical, geological and an EM-37 survey on land just 2 kms.west and northwest of the VULCAN on 13 kms.of cut grid; they collected a total of 1092 soil samples, but they analyzed only for lead, zinc, and copper. The geological mapping was conducted at a scale of 1;5000 along grid lines, even though outcrops are quite rare here; the EM-37 survey found "little of Interest". It was apparently the discovery of tourmaline in sediments near Mt.Mahon that piqued the interest of CHEVRON. In 1983 they also worked their TNIgroup which lies just west of Mt.Mahon:only mapping/prospecting was recorded even though less than 10% of area features exposed bedrock. The lithologies in this area are mainly sandstone with a little siltstone and argillite. In 1984 they drilled a vertical BQ hole of 473 metres @summit of Mt.Mahon to test the extent and charachter of the tournaline. Only traces of this mineral were noted though 1-3% pyrrhotite was in bottom 2/3 of hole, but only traces of lead and zinc were noted. CHEVRON mapped at least 4 stratiform tourmalinite zones on their Mahon property which indicates stratigraphic proximity to the Lower/Middle Aldridge contact-on which interval the Sullivan Mine lies. These zones seem to lack lateral continuity, but a paucity of outc, rop renders this idea speculative. CHEVRON hypothesized that the thick overburden in this region might mask any metal anomalies in the soil(which could also explain the author's poor results). In 1987 they drilled a 1611 metre sub-vertical hole, near their 473 m.1984 one. Only the first hundred metres of this hole lies in Middle Aldridge, with the remainder in lower Aldridge sediments; short sections of gabbro and granophyre were also intersected. In 1991/92 CHEVRON drilled 6 NQ holes for a total depth of 1320 metres collared in the hangingwall of tourmalinite exposed on the south and southwest flank of Mt. Mahon. On this core a total of 37 whole rock analyses and 46 geochemical assyas were done; these drill holes intersected Middle Aldridge turbidites but apparently nothing economic was revealed.

Just north of Mt.Mahon area lie the headwaters of Stone and Sundown Creeks upon which exploration of a moderate intensity has occurred since the early eighties. KOKANEE Explorations was active here on their LEO claims during this time; they collected a total of 490 soil samples which were found to be anomalous in copper, zinc, lead and barium. Nc further work by them is recorded however. In 1987 MINNOVA staked 301 units in the Stone Creek area and conducted a major exploration program including genchemistry, geology and geophysics on a block of ground extending from Moyie River(near the Midway Mine)south to CHEVRON'S MAHON claims. They completed geological mapping at scale of 1:10000, collected 226 lithogeochemical samples&cut 15 kms.of grid upon which they performed a CSMAT survey-"Contolled Audio-Magneto-Tellurics". This survey was done

to evaluate the property for zones of low resistivity, which could indicate the prescence of conductive sulphide mineralisation, and also to reveal any structure transecting the Lower/Middle Aldridge contact and to ascertain its depth. MINNOVA in 1988 did an abortive 15 kms.of Gravity surveying which was essentially a waste of time due to ruggedness of terrain. From 1989-91 they conducted modest drilling programs in order to test the stratigraphy of the area and also several geophysical anomalies; these holes mainly intersected gabbro and sediments derived from turbidite sequences. In 1990 they also did lithogeochemistry and mapping.

The SUN claims lie northeast of the STONE group, with the Midway Mine immediately adjacent; in 1992 they were held by G.M.Rodgers. In the mid eighties, a bit of hand trenching was done on them in stratabound lead-zinc mineralisation. In 1992 along cut grid lines, 11.2 kms.of VLF-EM and 3 kms.of Magnetics were completed; as is typical the VLF-EM recorded a couple of conductive zones but no Magnetic anomalies were revealed. In the same year, 190 soil samples were picked up; of the analyzed elements only zinc was found to be anomalous.

COMINCO acquired the CANAM group through staking from 1989-1991; by the end of the latter year, they held 355 units grouped into 42 claims-they hold much ground immediately adjacent to mine. They envisage that Lower Aldridge rocks occur on the west side of their block, with the central and east regions underlain by Middle Aldridge. In 1990 they drilled 2 BQ holes on the former LARCH group of ST.EUGENE MINES for a total of 190 metres, encountering gabbro and Aldridge sediments. From 1990 to 1993 they have completed several UTEM surveys-"University of Toronto style ElectroMagnetics"; in 1992 they did 20 kms.of line and in 1993 32 line kms.of UTEM on their CANAM group; mainly on geochemical anomalies (none of them specifically mentioned). The latter survey was done on a soil geochemical anomaly just west of South Hawkins creek where there is very little exposed bedrock. In 1991 COMINCO drilled 3 holes for a total of 869 metresca, 1-3 kms. west of author's UTOPIA claim centred on Latitude 49°01'N and Long.115°57'W. Two of them were drilled to test a lead-zinc anomaly(soil) on the east slope of a hillside; both intersected Middle Aldridge Sediments consisting of alternating quartzites and argillites varying in bedding thickness and a part of a turbidite sequence, with some gabbro intersected in the first hole. One hole cut minor sphalerite and less galena with the rare fractures and quartz veins hosting minor zinc, lead and pyrite; it reached a deph of 344 metres and was drilled westward at a dip of -47°. The second hole was put down at a similar orientation attaining a depth of 206 metres with only very minor disseminated sphalerite noted. The third hole drilled was 2 kms.east of the previous attaining a depth of 319 metres; it was drilled due west@Dip of~68°. Middle Aldridge Sediments were cut including quartzites, limey greywackes, a no.of widely scatterred pyrrhotite laminations with the hole ending in gabbro. No major conclusions have been deduced as yet from all this exploration as the programs are on-going.

#### DETAILED GEOLOGY OF AUTHOR'S CLAIMS in the YAHK RIVER AREA

Despite the quite large area encompassed by the three claims of the author, there is very little exposed bedrock on them. Perhaps only 5% of the XANADU features outcrop-it being confined to the claim's northwest portion and a strip along the Freeman Creek roadcut. Barely 10% of UTOPIA HAS OUTCROP, WHilst perhaps 7% of the VULCAN does; indeed with the exception of the latter claim, exposed bedrock is not more prevalent on the topographically higher regions. Judging by the steeper hillsides and roadcuts, the overburden layer seems very thick; undoubtedly this has hindered conventional prospecting in the past and may even impede the usefulness of soil geochemistry. As one would expect creek ravines and roadcuts tend to expose bedrock, although the latter tends to run along the strike of a formation for long distances. Only a few differing lithologies were noted and though the claims lack contiguity, the similarity of their rocks permits them to be discussed together.

Probably the most volumetrically abundant lithology on my ground is the Moyie gabbro which tends to form larger and more topographically prominent outcrops than the sediments; (not strange as it is generally more resistant to erosion). This mafic igneous rock varies considerably both in colour index and grain size. The crystals range from barely 1 mm.to locally(on northwest corner of Xanadu) 3 cms.; the latter featuring long horneblende sheafs-though a more typical size range is 3-7 mms. The colour index varies from 40-70 with plagioclase generally the only felsic mineral and amphiboles(chiefly hornblende?) the only mafic minerals notable in hand specimen. Judging by the rocks low magnetic response, magnetite must be fairly rare. This lithology is invariably massive, dark green and usually appears quite fresh, though locally it can be very rusty . Even the rustiest gabbro reveals only traces of finely disseminated iron sulphide, with rare, rusty, grey quartz veins noted on the central UTOPIA; a couple of the veinlets also contain epidote and carbonate. The veins vary in width from  $\theta$ .3-20 cms.with none observed longer than a couple metres. A couple samples from this lithology were collected, but the assays revealed nothing of interest. One distinctive variation of the gabbro was noted on the east-central UTOPIA -here is medium grained quartz (ca.20%) in the matrix. This rock could be termed "Tonalitic"; it has a significantly lower Colour Index-ca. 30; it is massive, medium grained, quite fresh and is mainly light grey to rarely light green. It was not found elsewhere on any of the staked ground.

The second major lithological division is Aldridge sediment, which on the basis of hand specimen viewing has been split by myself into 3 separatecategories even though they are probably all mutually gradational. The "typical sandstone" has a great colour variation, ranging from buff to light grey, light green, pink to brownish and is often externally rusty. It ranges from well-bedded to zones where bedding planes and thus attitudes are indiscernable; but where noted vary from 10-50 cms. , thus quite thick.

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Grain size ranges very fine to sometimes medium; it is impossible to differentiate the type of mineral constituents in the former varieties though quartz seems to be a predominant component. Muscovite (sericite?) is locally common with small amounts of biotite, , chlorite and probably feldspar, although most of the rocks mapped are probably arenites. One lithological variation is a type so fine grained, it could be termed a siltstone-these are mainly ochre to brownish and although mapped as a distinct unit, may have an identical composition to the Sandstones. A third type is more distinctive and was noted mainly on the VULCAN CLAIM-this is a dark grey, very fine grained, argillaceous rock which seems to contain appreciable quantities of carbonate. These "limey" rocks often fizz only slightly however, so they may contain much dolomite and (judging by their colour) siderite. This lithology may be economically significant, as on the east edge of the VULCAN  $\frac{1}{1000}$  host loc\_ally abundant stringers of iron sulphide. Wherever discernable the attitude of the beds features strikes of 020° to 055° with dips generally fairly shallow @20-40°.

#### GEOCHEMICAL DISCUSSION OF SOIL AND ROCK SAMPLES

A total of 78 soil samples and a dozen rock samples were collected from the three claims; these were all sent to CHEMEX LABS. in North Vancouver, B.C.for geochemical analysis and assaying All results are included in this report). Only the "B" horizon material was collected from the soils during the course of the survey, done mainly along grid lines ; each sample weighed about 250 grams and were placed in brown paper bags. Each one had the 32 element I.C.P-A.E.S.procedure done on it-the results for all economic metals yielded in parts per million. A total of 25 samples were taken from the UTO-PIA,41 from the XANADU and a dozen from the VULCAN. Although no geochemistry was done for gold per se, several "p\_athfinder" elements such as arsenic and tungsten were. As is easily deduceable from the geochemical results, no major anomalies were observed. None of the gold pathfinders were even remotely abnormal-all yielded less than 10 ppm. The main elements of interest in this area-lead, zinc, copper and silverall virtually occur in essentially background amounts with the exception of a few zinc and copper resultsand even these occurred in amounts of less than 150 ppm. The highest copper value on the UTOPIA originated from the north edge of the claim; whilst on the XANADUit came from the northwest corner; zinc is slightly more abundant on the latter with 3 analyses yielding over 100 ppm Zn,all originating from the northwest corner of the claim. The only zinc assay exceeding 100 ppm on the UTOPLA is only 100 metres from the site of the highest Cu value. According to some, zinc soil geochemical anomalies ...... are often of little significance. Nothing anomalous was indicated by the soils collected from the VULCAN claim, though only a few were taken from here. Quite high amounts of barium were recorded over much of the properties-up to 360 ppm, but this is not too economically significant as it is a relatively common but dispersed element in nature.

Visible sulphide mineralisation was very rare on the claims and usually  ${\cal I}$ 

occurs as tiny specks of iron sulphide. Amounts of up to 2% pyrite were found in portions of the gabbro and their rare allied guartz veins on the UTOPIA; these were sampled and found to be totally barren inany economic metals, which is not surprising as the exploration targets in this region are in the sediments. In fact 3/4 of all rocks that I assayed were from the sediments-these were chosen mainly for the amount of visible sulphide present, and the fact that so few were taken, is a function of the apparent barrenness of the rocks. Limey argillite from 2 separate locations on the east edge of the VULCAN featured iron sulphide stringers several mms.wide and constituting up to 15% of Hiel the rock were both sampled . Significantly they yielded the highest gold assay-just 10 ppb, the best copper-64 ppm and zinc-138 ppm of any of the rock samples, though of course with the possible exception of the latter, these results are just barely anomalous. A subanomalous zinc value of 98 ppm was derived from the northwest corner of the VULCAN-again from limey argillite and 102 ppm from the northwest corner of the XANADU. However of a total of a dozen rock samples,8 show slightly higher amounts of zinc than the background of this area(which is ca.45 ppm Zn). The best lead result obtained-24 ppm was derived from the southern part of the UTOPIA-very low but still higher than background(12 ppm).

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Although none of the geochemical results are spectacular, nevertheless a few trends seem evident. Most of the highest geochemical values obtained are adjacent to areas, e, g.east of VULCAN, THAT are currently(as of late 1995) open for staking; areas which contain limey argillite are certainly worthy of future investigation. The geochemical survey was completed before the geophysics, which is why no soil geochem. was ever done over the central UTOPIA WHERE a modest magnetic high co-incides with rusty, sheared gabbros. Due mainly to budgetary constraints, no geochem, was performed on the south UTO-PIA or VULCAN OR in rusty gossanous zones adjacent to road cuts; all of these areas have a high priority of investigation in the near future. A Lanthonum anomaly of 120ppm is situated in the north-west corner of the Xanadu with a high Zine & Copper and Maly found in the Soils here.

#### PRINCIPLES and METHODOLOGY of VLF-EM GEOPHYSICAL SURVEYING

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The VLF-EM (Very Low Frequency ElectroMagnetics ) method of geophysical surveying was first successfully developped in the 1960's; it utilizes electromagnetic fields transmitted from radio stations in the 15 KiloHertz to 25 KHz. range. They have generally been established for and are operated by the United States Navy for tracking submarines; a worldwide network of these stations has been established with four of them located in the U.S.A.-Anapolis, Md.: 21.4 KHz., Honolulu, Hawaii: 23.4 KHz., Cutler, Maine:24 KHz.and Seattle, Wash.:24.8 KHz. Though the waves propogated by these stations have very long wavelengths with resultant low frequencies by radio broadcast standards, they are nevertheless very high by the standards of geophysical equipment. The stations have a range of several thousand kilometres and are able to penetrate into bedrock with the instrument utilized being able to detect variations generated by these waves. The VLF-EM unit is simply a sensitive receiver attuned to the frequency band of these transmitting stations with a method of measuring the vertical field components. These "Very Low Frequency" stations generate a vertical antenna current which propogates a concentric horizontal magnetic field around them. When these magnetic fields interact with conductive bodies in the ground, secondary fields will radiaate from these "conductors"-the VLF-EM unit measures the vertical component of these secondary fields. The magnetic field lines from the station are at right angles to the direction of the station-thus the strike of the geology should approximately point to the transmitter station.

AnEM-16 Unit manafactured by Geonics Ltd. of Mississauga, Ontario was the model utilised for the 1994 summer survey on the SQUOZ claim group. Its size is 5328 X22 centimetres with a weight of 1.8 kilograms; the field method for surveying with this instrument is quite facile. The VLF-EM unit has two inputs with two receiving coils built into the instrument; one coil has a normally vertical axis whilst the second is horizontal. The signal from the coil with the vertical axis is first minimized by tilting the instrument-the tilt angle is calibrated in a percentage. The remaining signal in this coil is balanced out by a measured percentage of a signal from the other coil after the unit has been shifted by 90 degrees; this latter coil is normally paralell to the primary field. In the field the initial step in obtaining a reading is to face the station whilst holding the instrument horizontally; one then slowly moves the unit right to left in order to obtain the lowest "null". In the case of an EM-16 sound is utilized for this purpose-it becomes guieter. When the lowest possible sound, i.e. null, is obtained, one then raises the unit at a right angle-90 degrees to a vertical orientation. One then slowly tilts the instrument up and down vertically whilst simultaneously turning the Quadrature knob back and forth in order to obtain the best null. When this is accomplished, one reads the tilt angle (In-Phase Component)

which is measured in degrees through the eyepiece, whilst the Quadrature (Out-of-Phase Component) is obtained from the graduated dial on the rotary knob on the unit. To re-iterate, this instrument measures the "DipAngle" and "Quadrature" components of the vertical magnetic field as a percentage of the horizontal primary field. The best results are usually obtained if the survey lines are perpindicular to the transmitting station.

The instrument is calibrated in such a way, that when one is approaching a conductor, the dip angles are positive, whilst they are negative when departing from it; this is one reason why magnetic values are not contoured. In order to render the interpretation of the data easier, a technique known as "Fraser Filtering" is often undertaken on the "Raw" data before one contours. The separation of surface conductors from the more significant deeper ones is aided by observing negative Quadrature readings, as surface conductors usually give positive values. Faults or shear zones are usually positive; when much sulphide is present a negative Quadrature is often obtained. Theoretically for a good conductor, the Quadrature and Dip Angle values should be widely diverging, but this is often not the case in the field. It has been observed that the horizontal distance between the maximum positive and negative readings is approximately the same as the actual depth from ground surface to the effective area of the conductive body. The major economic application of the VLF-EM method is to locate sulphides either massive or disseminated, although it is unable to detect them directly. Instead it is helpful for detecting structures such as faults, shear zones or formational contaCTS which may be the sites of economic mineralisation. Relative to its simplicity and low cost, the method is quite informative, though it does posess two inherent weaknesses. One is the shallow depth of penetration-maximum of 100 metres, and the possibility of spurious readings caused by the proximity of water and wet clays.

11.

#### DISCUSSION OF GROUND MAGNETICS

The magnetic method of geophysical prospecting relies on the inherent magnetic variations of lithologies. These variations depend on as one would expect on the total amount of magnetic minerals located in the rock;only very few commononly occurring minerals are substantially magnetic. Of these magnetite is the most abundant and widespread; pyrrhotite, chromite and pentlandite are also relatively common but proportionally rarer. Thus, generally speaking a magnetometer measures the amount of magnetite occurring in a rock; this is obviously a function of its composition. Igneous rocks particularly ultramafic types contain the largest amounts of this mineral and yield the highest values; conversely siliceous and carbonaceous sediments typically contain very little , so have the lowest readings. Thus a magnetometer is not only a valuable tool for finding ferrous deposits and other economically valuable minerals associated with them, but can also be utilised as a method of geological mapping.

The model used for this survey was a "MP-2" a portable proton precession magnetometer manafactured by Scintrex Ltd. The specifications of this instrument include a resolution of 1 gamma(1 nano-Tesla) over a full operating range of 20000 to 100000 nT in 25 steps; It has agradient tolerance of 5000 nT/metre. There are two components to the instrument. The sensor is an omni-directional, shielded, noise cancelling, dual coil unit featuring a chamber filled with a proton rich fluid such as kerosene-its total weight is 1500 grams. The sensor can be either carried in a backpack or mounted on a staff-the latter procedure allows for a more accurate survey as the operator generally has a trace of metal on his body. It is vital to the accuracy of the survey that no big metal objects be carried by the operator as this will upset the ambient anguetic field. The console, which is connected to the sensor by a long cord, weighs with batteries 2 kgs.; an accurate reading can be obtained in a few seconds. Enclosed within the gasor are 2 wire wound coils-when a current is passed through these coils for a brief period of time a magnetic field is created which aligns the spinning protons. When the polarizing current is abruptly terminated, protons commence to precess around the magnetic field of earth and eventually re-align with it. This precession induces a tiny exponentially decaying AC signal in the sensor coils-the frequency is proportional to the flux of the ambient magnetic field. This frequence is measured by the signal processing electronics of the unit, converted to a gamma value and presented on the digital display.

The magnetic method involves the very accurate measurement of the total resultant magnetic field created by Earth's field acting on lithological formations possessing differing magnetic properties and configurations. Excluding geometric factors there are 3 components which uniquely determine the magnetic field at any location: 1. Strength of Earth's magnetic field. 2. Magnetic susceptibility of ambient rocks. 3. The remanent magnetism of the rocks. The latter is a function of both the rock's composition and its pre-

Temporal variations in the Magnetic field are an inherent problem in magnetic surveying; significant alterations may occur within hours, minutes or even seconds though longer term changes may be neglected for a survey. In order to correct for this diurnal shift, which may attain 1000 nano-Teslas per day, corrections of the values obtained by the unit are necessary. Of the two major methods utilized for this, the more accurate, quicker, yet more costly one, consists of placing an identical unit to the type being used for the survey, at a permanent base station, where continuous readings throughout the day will be tabulated whilst the magnetic survey is being conducted. Thus a complete record of any shifts will be obtained, which will permit relatively accurate data manipulation. A second method is to periodically , during the course of the day, take repeated measurements at several convenient traverse points, which broadly allows the variations to be discerned. This latter method was chosen by myself for this program, which can lengthen the field time spent in surveying considerably. However for the claims surveyed in the Yahk River area, enough trails crossed the survey lines, that very little time was expended in this procedure; furthermore, the diurnal variations recorded were very low.

#### DISCUSSION OF VLF-EM SURVEY RESULTS on the AUTHOR'S PROPERTIES

A VLF-EM survey was performed over the entirety of the VULCAN, UTOPIA and the western 30% of the XANADU in late summer; Seattle Washington, 24.8 KiloHertz was the station of choice for all three claims. Relatively low values and quite minor variations were often noted in both the In-Phase and Out-of-Phase component of the VLF-EM, particularly the latter. On the UTOPIA, one moderate conductor lies near the extreme north west corner; though there is good separation between the Dip Angles and Quadratures, the values of the latter are just barely negative implying a shallow conductor (whilst the more interesting deep ones are suggested by high negative readings). The sediments and the gabbro are in close proximity here, so perhaps the prescence of faulting is being recorded, although this zone also coincides with a very minor soil geochemical anomaly, A conductor of a similar magnitude is situated near the northeast sector of the claim on Line 8E.; these 2 areas also correlate with high Fraser Filtered Dip Angle contours. On most of the UTOPIA though, the two main VLF-EM components are similar, with generally the variations between adjacent stations and lines very low, with both the Dip Angles and Quadratures often near zero. A second moderate sized conductor runs along the eastcentral sector of this claim to Line 10 E.-this coincides with a low magnetic anomaly. A minor conductor is indicated along the southern portion of the UTOPIA from Line 5E. to Line 10 E. along 900 North-this is also corrobotated by the Fraser Filtered Dip Angle contours which attain their highest magnitude here on the claim, as they trend from Line 3 E.to 10 E. powever judging by the concordance of dip Angles and Quadratures, these high values could be mainly a product of faulting. There is a relatively high,

but irregular contoured area on the entire north part of claim betwixt 2400 and 2800 North.

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Somewhat better separations between the Bip Angles and Quadratures is indicated on the XANADU relative to the UTOPIA, BUT GENERALLY THE FORMER IS negative, with the latter positive, whilst theoretically at least, one should have the reverse situation for good conductors. In fact the Out-of-Phase component tends toward zero, with the In-Phase almost invariably negative. All Of this seems to indicate quite shallow conductors and also there is a frequent concordance betwixt these 2 components, even when a good separation exists, which suggests that the deviations could be caused by faulting. The Fraser Filtered Dip Angle contours indicate a modest sized conductor trending eastward across the XANADU between 500 and 800 North, but these are very discontinuous and irregular. An intriguing zone of high Dip Angle contours is adjacent to near the north edge of the Claim betwixt lines 16 E.and 18 E.; not only were the highest values from the XANADU obtained here, but this sector roughly corresponds to a high Magnetic anomaly. The profiles of the two major VLF-EM components are quite widely spaspaced here also.  $M_E$  ther Was any geochemistry done here. Several shallow conductors were spotted on the VULCAN, BUT as on the previous 2

Several shallow conductors were spotted on the VULCAN, BUT as on the previous 2 claims, even when a good separation exists betwixt the Quadratures and Dip Angles, only rarely are the former negative which according to theory would suggest shallow conduct - ors. According to the data from the profiles and filtered contours, the best conductors seem to lie on the southwest, a region totally devoid of outcrop and a place where the Magnetic response is very average. But even in this zone, the Out-of-Phase readings approach zero and the contoured areas with the high values are quite small. Perhaps the most significant area in an economic sense is located towards the northeast , where although the Fraser Filtered Dip Angle Contours are insignificant, moderately good sepadration exists betwixt the profiles of the 2 VLF-EM components. Although no Magnetic anomalies were noted here, this zone features much limey argillite hosting abundant iron sulphide stringers.

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DISCUSSION OF MAGNETIC SURVEY RESULTS on the PROPERTIES

The Magnetic background in this area is in the range of 57100 nano-Teslas-quite low, but not unusual as sediments predominate in this region and their magnetic response is generally less than that for igneous rocks which often contain more magnetic minerals. Very little variation in the Magnetic readings was recorded over the bulk of the claims, with the values hovering in the range of 57100 nano-Teslas for literally hundreds of metres along the survey lines. So low was the magnitude of the variations, that the contour intervals chosen were only 50 to 100 nano-Teslas(Gammas); for many survey; an interval of 500 or even 2000 is sometimes chosen. In fact the highest single reading obtained was a mere 58350 nT, which came from the southeastern corner of the VULCAN. However the "diurnal shift" of Magnetic values (previously discussed) was often of such little magnitude that corrections did not always have to be made.

Of all 3 claims, the XANADU SHOWED the least magnetic variation-the highest value was only 57291 nT, (albeit the eastern edge of this property was unsurveyed). This was obtained from the north-central part of the claim where outcrop is totally absent; even in the region of abundant gabbro outcrop, the Magnetic response is very flat. On the UTOPIA claim, the highest magnetic values originate from almost its exact centre, where there are large, often rusty gabbro outcorops; the eastward continuation of this lithology is reflected by the slightly higher Magnetic readings. In the vast majority of this claim though, as on the XANADU, THE values hover in the 57100 nanofesla range. The VULCAN reveals 2 distinct areas of relatively high Magnetic response-one being in the north-central area where outcrop is totally lacking, with values often exceeding 5/300 nano-Teslas. The second, more significant area lies in the southeast corner of the claim where (perhaps not coincidentally) exposed bedrock is relatively abundant. The values here sometimes exceed 58000 nT; the zone with the elevated readings being roughly oval and ca.300 metres north-south and 150 metres east-west. This may be economically significant as iron sulphide stringers in the rusty limey sediments are relatively common here(though they appear to be pyrite as opposed to pyrrhotite). Alternatively this zone may be underlain by a mafic intrusive.

There are perhaps several reasons why this area in general has such a low Magnetic response; one being that this is partially due to a very thick overburden cover or there may simply be a paucity of magnetite in the bedrock. Even though the Aldridge sediments are quite Iron-rich, they are not particularly abundant in magnetite or pyrrhotite. In any case a high magnetic response does not necessarily correlate with economic mineralisation unless one is seeking an iron mine. Areas that have higher magnetic values here relatively (even the highest is actually guite low) may be underlain by areas of gabbro with a slightly higher magnetite content or else pyrrhotite-bearing metasediments. Despite the velatively negative vessels obtained, this Survey was Still somewhat useful.

#### RECOMMENDATIONS FOR FUTURE EXPLORATIONSIN YAHK RIVER AREA

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The area encompassed by my three claims which total 40 unit seems quite unprepoessing at first glance-the scarce outcrops display very little economic mineralisation despite their rustiness and neither was any tourmalinite (the rock of exploration interest in this area) noted. The modest geochemical program failed to reveal much of anything that was significantly anomalous; neither did the Magnetic survey detect any major responses and most of the Indicated VLF-EM conductors seem to be fairly shallow. Despite all these apparently negative results however, at least one more field season of modest exploration does seem warranted. here. Although much ground immediately adjacent to mine has recently come open.e.g. CANAM #16&#18, much of it has recently undergone relatively intense exploration with fairly unimpressive results; thus it seems more logical to explore the currently open ground eastwards(with exception of CANAM#15 which connects the XANADU and VULCAN). One notable area where this summer's exploration results were not so negative is on the eastern edge of the VULCAN. To re-iterate, here on 2 separate locations-one in the northeast, the second in the southeast corner, relatively abundant sulphide stringers are hosted by dark grey limey argillite. Only a couple rock samples from this area were assayed here and no soils; similar lithologies were also noted eastward of the claim boundary. Thus it would seem logical to acquire soon, a block of ground, ca.15 claim units, immediately east of the VULCAN and to perform identical surveys on the newly staked areas, to those done this year. On the VULCAN CLAIM ITSELF, SEVERAL dozen soil samples ought to be collected, including several rocks\_mainly from the east side; several of these latter should also be analyzed for gold. Pewhaps a tighter magnetic gride.g.25X25 metres, could be placed over the south east corner of the VULCAN, IN ORDER TO PINFORM THE source of the Magnetic anomalies and to discorn whether or not they follow a trend.

A second area of economic potential, albeit of less magnitude lies at centre of UTOPIA claim, where rusty gabbro hosting rusty quartz veins with carbonate and epidote, coincide with a minor Magnetic high (and a very minor VLF-EM conductor). Although lithogeochemical results were quite negative, only a couple were taken with no soil geochemistry done in this area. It is envisaged that 2-3 dozen soils could be tataken here along the apparent east-west trend of the gabbro. Towards the east side of it are some "tonalitic"- Quartz-rich rocks, which implies that a zone of silicification occurs here, which could be worthy of future investigation. The open ground east here of the UTOPIA could be staked with exploration done over it and some soil geochemistry carried out over the south UTOPIA with more on its northern sector. No more work is contemplated for the south XANADU, but adjacent to its north edge, were modest geochemical and Magnetic anomalies which could be examined further. To re-iterate, any more work contemplated for this region would involve zones eastward of the VUICAN and UTOPIA with a little more work planned for the 3 properties explored by me this year.



### **Chemex Labs Ltd.** Analytical Chemists \* Geochemists \* Registered Assayers

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| To: | ROYER, GUY |
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BOX 211 ST. LOUIS, SK S0J 2C0

A9529458

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Comments: ATTN: GUY ROYER

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| (JFU ) - R(<br>Project:<br>P.O, # : | OYER, GU<br>B HORI         | Y<br>ZON MATERIAL   | CHEMEX<br>CODE  | NUMBER<br>SAMPLES                | DESCRIPTION  | METHOD   | DETECTION<br>LIMIT                     | Upper<br>Limit   |
| Samples                             | port was                   | ed to our lab in Vancouver, BC.<br>printed on 5-OCT-95.   | 983<br>2118<br>2120<br>2123<br>2128<br>2131<br>2136<br>2136<br>2141 | 12<br>12<br>12<br>12<br>12<br>12 | Au ppb: Fuse 30 g sample<br>Ag ppm: 32 element, soil & rock<br>As ppm: 32 element, soil & rock<br>Bi ppm: 32 element, soil & rock<br>Cu ppm: 32 element, soil & rock<br>Hg ppm: 32 element, soil & rock<br>Mo ppm: 32 element, soil & rock<br>Pb ppm: 32 element, soil & rock<br>Sb ppm: 32 element, soil & rock | FA-AAS<br>ICP-ARS<br>ICP-ARS<br>ICP-ARS<br>ICP-ARS<br>ICP-ARS<br>ICP-ARS<br>ICP-ARS<br>ICP-ARS | 5<br>0.2<br>2<br>1<br>1<br>1<br>2<br>2 | 10000<br>200<br>10000<br>10000<br>10000<br>10000<br>10000<br>10000 |
|                                     |                            | PLE PREPARATION   | 2149  |                                  | Zn ppm: 32 element, soil & rock  | ICP-AES  | 2                                      | 10000  |
| CHEMEX<br>CODE                      | NUMBER<br>SAMPLES          | DESCRIPTION   |   |                                  |  |  |  |  |
| 205<br>226<br>3202<br>298           | 12<br>12<br>12<br>12<br>12 | Geochem ring to approx 150 mesh<br>0-3 Kg crush and split<br>Rock – save entire reject<br>ICP – AQ Digestion charge |   |                                  |  |  |  |  |
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Page Number 1 Total Pages 1 Certificate Date: 05-OCT-95 Invoice No. : 19529458 P.O. Number : JFU Account

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212 Brooksbank Ave., North Vancouver British Columbia, Canada V7J 2C1 PHONE: 604-984-0221 FAX: 604-984-0218

Project : **B HORIZON MATERIAL** Comments: ATTN: GUY ROYER

#### CERTIFICATE OF ANALYSIS A9529458

| SAMPLE                                 | PREF   |                     | Ag<br>ppm  | As<br>ppm                 | Bi<br>ppm  | Cu<br>ppm                  | Hg<br>ppm                            | Mo<br>ppm                          | Pb<br>ppm                   | Sb<br>ppm  | Zn<br>ppm                   |
|--|--|---------------------|--|---------------------------|--|----------------------------|--------------------------------------|------------------------------------|-----------------------------|--|-----------------------------|
| EMM-1<br>EMM-2<br>EW-1<br>EX-1<br>MM-1 | 205 22<br>205 22<br>205 22<br>205 22<br>205 22 | 6 < 5<br>6<br>6 < 5 | < 0.2<br>< 0.2<br>< 0.2<br>< 0.2<br>< 0.2<br>< 0.2 | 4<br>< 2<br>6<br>8        | < 2<br>< 2<br>< 2<br>< 2<br>< 2<br>< 2                                     | 64<br>52<br>39<br>30<br>20 | < 1<br>< 1<br>< 1<br>2<br>< 1        | 2<br>1<br>< 1<br>5<br>< 1          | 8<br>8<br>4<br>8<br>6       | <pre>&lt; 2 &lt; 2</pre> | 138<br>80<br>72<br>92<br>82 |
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CERTIFICATION:



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#### CERTIFICATE

A9529457

(JFU) - ROYER, GUY

Project: B HORIZON MATERIAL P.O. # :

Samples submitted to our lab in Vancouver, BC. This report was printed on 5-OCT-95.

|            | SAMPLE PREPARATION |   |  |  |  |  |  |  |  |  |  |  |
|------------|--------------------|---|--|--|--|--|--|--|--|--|--|--|
| CHEMEX     | NUMBER<br>SAMPLES  | DESCRIPTION   |  |  |  |  |  |  |  |  |  |  |
| 201<br>229 | 78<br>78           | Dry, sieve to -80 mesh<br>ICP - AQ Digestion charge |  |  |  |  |  |  |  |  |  |  |
| * NOTE     | 1:                 |   |  |  |  |  |  |  |  |  |  |  |

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W. To: ROYER, GUY

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Comments: ATTN: GUY ROYER

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|--|-------------------|---|---|--|---|
| CHEMEX<br>CODE   | NUMBER<br>SAMPLES | DESCRIPTION   | METHOD  |  | UPPER<br>LIMIT  |
| 2118<br>2119<br>2120<br>2121<br>2122<br>2123<br>2124<br>2125<br>2126<br>2127<br>2128<br>2127<br>2128<br>2127<br>2130<br>2130<br>2131<br>2132<br>2151<br>2134<br>2135<br>2136<br>2137<br>2138<br>2139<br>2140<br>2141<br>2142<br>2143<br>2144<br>2145<br>2146<br>2149 |                   | Ag ppm: 32 element, soil & rock<br>Al %: 32 element, soil & rock<br>Ba ppm: 32 element, soil & rock<br>Ba ppm: 32 element, soil & rock<br>Be ppm: 32 element, soil & rock<br>Be ppm: 32 element, soil & rock<br>Ca %: 32 element, soil & rock<br>Ca %: 32 element, soil & rock<br>Co ppm: 32 element, soil & rock<br>Cr ppm: 32 element, soil & rock<br>Cr ppm: 32 element, soil & rock<br>Cr ppm: 32 element, soil & rock<br>Fe %: 32 element, soil & rock<br>Ga ppm: 32 element, soil & rock<br>Ga ppm: 32 element, soil & rock<br>Mg ppm: 32 element, soil & rock<br>Mg %: 32 element, soil & rock<br>Mg %: 32 element, soil & rock<br>Mn ppm: 32 element, soil & rock<br>Na %: 32 element, soil & rock<br>Na %: 32 element, soil & rock<br>Ni ppm: 32 element, soil & rock<br>Ni ppm: 32 element, soil & rock<br>So ppm: 32 element, soil & rock<br>Ni ppm: 32 element, soil & rock<br>So ppm: 32 element, soil & rock | ICP-AES<br>ICP-AES<br>ICP-AES<br>ICP-AES<br>ICP-AES<br>ICP-AES<br>ICP-AES<br>ICP-AES<br>ICP-AES<br>ICP-AES<br>ICP-AES<br>ICP-AES<br>ICP-AES<br>ICP-AES<br>ICP-AES<br>ICP-AES<br>ICP-AES<br>ICP-AES<br>ICP-AES<br>ICP-AES<br>ICP-AES<br>ICP-AES<br>ICP-AES<br>ICP-AES<br>ICP-AES<br>ICP-AES<br>ICP-AES<br>ICP-AES<br>ICP-AES<br>ICP-AES<br>ICP-AES<br>ICP-AES<br>ICP-AES<br>ICP-AES<br>ICP-AES<br>ICP-AES<br>ICP-AES<br>ICP-AES<br>ICP-AES | 0.2<br>0.01<br>2<br>10<br>0.5<br>2<br>0.01<br>0.5<br>1<br>1<br>0.01<br>10<br>0.01<br>10<br>0.01<br>10<br>2<br>2<br>1<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10 | $\begin{array}{c} 200\\ 15.00\\ 10000\\ 10000\\ 100.0\\ 10000\\ 15.00\\ 1000$ |
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To: ROYER, GUY

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BOX 211 ST. LOUIS, SK SOJ 2C0

Page Number 1-A Total Pages :2 Certificate Date: 04-OCT-95 Invoice No. 11 P.O. Number :19529457 Account :JFU

212 Brooksbank Ave., North Vancouver British Columbia, Canada V7J 2C1 PHONE: 604-984-0221 FAX: 604-984-0218

Project : B HORIZON MATERI Comments: ATTN: GUY ROYER **B HORIZON MATERIAL** 

#### **CERTIFICATE OF ANALYSIS** A9529457 Cđ Ηg K Mg Mn Ав Ba Be Bi Сa Co Cr Cu Pe -Ga La 2 % % מממ DDI DDM DDM DDM DDM DDM naa שממ DDM % mqq DDD

|                        | PREP     | Ag             | AL .         | AB                     | Da         | De             | BI  | ્વ           | - Cu           |                                       | UL.         |          | 2 13<br>0.   | 94           | ду         | л<br>6.      | шa         | wy<br>o      |            |            |          |
|------------------------|----------|----------------|--------------|------------------------|------------|----------------|---|--------------|----------------|---------------------------------------|-------------|----------|--------------|--------------|------------|--------------|------------|--------------|------------|------------|----------|
| SAMPLE                 | CODE     | ppm            | %            | ppm                    | ppm        | ppm            | ррш   | %            | <b>ppm</b>     | ppm                                   | ₽₽ <b>m</b> | ppm      | *            | ppm          | ppm        | *            | ppm        | *            | ррш        | ppm        |          |
|                        |          |                |              | _                      |            |                | _   |              |                |                                       |             |          |              |              |            |              | 4.0        |              | 200        |            |          |
| WOE/700N               | 201 229  | < 0.2          | 1.83         | < 2                    | 70         | < 0.5          | < 2   | 0.47         | < 0.5          | 14                                    | 13          | 57<br>52 | 3.07         | < 10         | < 1        | 0.26         | 10<br>< 10 | 0.53         | 300<br>330 | < 1<br>1   |          |
| WOE/1025N              | 201 229  | < 0.2          | 2.26         | < 2                    | 120<br>110 | < 0.5          | < 2   | 0.19<br>0.24 | < 0.5<br>< 0.5 | 9<br>8                                | 14<br>32    | 33       | 2.62         | < 10<br>< 10 | < 1<br>< 1 | 0.14<br>0.64 | 20         | 1.22         | 355        | < 1        |          |
| WOE/2100N              | 201 229  | < 0.2          | 2.55         | 2                      | 70         | < 0.5          | < 2   | 0.25         | < 0.5          | 8                                     | 12          | 33       | 2.97         | < 10         | < 1        | 0.18         | 10         | 0.45         | 155        | < 1        |          |
| W1E/950N<br>W1E/2150E  | 201 229  | < 0.2          | 1.40         | < 2                    | 80         | < 0.5          | < 2   | 0.23         | < 0.5          | 9                                     | 15          | 35       | 1.99         | < 10         | < 1        | 0.22         | 10         | 0.52         | 205        | < 1        |          |
| HID/ #1942             |          | × v.a          | 7133         | <b>`</b>               | οv         |                | ` •   |              | < v.v          | 3                                     | 10          |          | 1,33         | ~ 10         | ` <b>1</b> |              | <b>A</b> V | ****         |            | • •        |          |
| W2E/975N               | 201 229  | < 0.2          | 4.16         | 4                      | 150        | 0.5            | < 2   | 0.17         | < 0.5          | 13                                    | 13          | 62       | 2.51         | < 10         | < 1        | 0.11         | 10         | 0.27         | 190        | < 1        |          |
| W2E/2175N              | 201 229  | < 0.2          | 1.33         | < 2                    | 60         | < 0.5          | < 2   | 0.24         | < 0.5          | 6                                     | 12          | 21       | 1.54         | < 10         | < 1        | 0.11         | < 10       | 0.37         | 140        | < 1        |          |
| W3E/1100N              | 201 229  | < 0.2          | 4.76         | 6                      | 260        | 0.5            | < 2   | 0.13         | < 0.5          | 14                                    | 17          | 76       | 3.59         | 10           | < 1        | 0.19         | 10         | 0.36         | 195        | < 1        |          |
| W3E/2200N              | 201 229  | < 0.2          | 1.83         | 2                      | 80         | < 0.5          | < 2   | 0.20         | < 0.5          | 8                                     | 22          | 30       | 2.37         | < 10         | < 1        | 0.52         | 20         | 0.72         | 215        | < 1        |          |
| W3E/3300N              | 201 229  | < 0.2          | 1.27         | 2                      | 60         | < 0.5          | < 2   | 0.30         | < 0.5          | 6                                     | 19          | 34       | 1.78         | < 10         | < 1        | 0.31         | 10         | 0.60         | 190        | < 1        |          |
| W4E/950N               | 201 229  | < 0.2          | 1.43         | 2                      | 70         | < 0.5          | < 2   | 0.11         | < 0.5          | 10                                    | 7           | 21       | 1.48         | < 10         | < 1        | 0.08         | < 10       | 0.24         | 350        | < 1        |          |
| W4E/2350N              | 201 229  | < 0.2          | 1.90         | 4                      | 90         | < 0.5          | < 2   | 0.26         | < 0.5          | 8                                     | 22          | 32       | 2.40         | < 10         | < 1        | 0.50         | 10         | 0.80         | 215        | < 1        |          |
| M4E/2950N              | 201 229  | < 0.2          | 2.53         | 2                      | 230        | < 0.5          | < 2   | 0.18         | < 0.5          | 11                                    | 39          | 63       | 3.07         | < 10         | < 1        | 0.95         | 10         | 1.24         | 355        | < 1        |          |
| W5E/1100N              | 201 229  | < 0.2          | 2.94         | 2                      | 120        | 0.5            | < 2   | 0.14         | < 0.5          | 14                                    | 13          | 46       | 2.16         | < 10         | 1          | 0.09         | < 10       | 0.28         | 200        | < 1        |          |
| W5E/2400N              | 201 229  | < 0.2          | 2.50         | 4                      | 130        | 0.5            | < 2   | 0.10         | < 0.5          | 10                                    | 24          | 36       | 3.51         | < 10         | < 1        | 1.08         | 20         | 1.05         | 380        | < 1        |          |
|                        |          |                |              |                        |            |                |   |              |                |                                       |             |          |              |              | ····       |              |            |              |            |            |          |
| W5E/2875N              | 201 229  | < 0.2          | 2.26         | 2                      | 140        | < 0.5          | < 2   | 0.44         | < 0.5          | 13                                    | 37          | 109      | 3.21         | < 10         | < 1        | 0.70         | 10         | 1.03         | 360        | 1          |          |
| W6E/1050N              | 201 229  | < 0.2          | 2.10         | 2                      | 90         | < 0.5          | < 2   | 0.23         | < 0.5          | 10                                    | 11          | 41<br>55 | 2.18<br>2.88 | < 10         | < 1        | 0.15         | 10<br>10   | 0.39         | 170<br>285 | < 1        |          |
| W6E/2300N<br>W6E/2750N | 201 229  | < 0.2<br>< 0.2 | 2.71<br>2.09 | 6<br>6                 | 180<br>140 | < 0.5<br>< 0.5 | < 2<br>< 2                                    | 0.27<br>0.30 | < 0.5<br>< 0.5 | 11<br>10                              | 24<br>27    | 48       | 2.72         | < 10<br>< 10 | < 1<br>< 1 | 0.46<br>0.58 | 10         | 0.93         | 295        | < 1<br>< 1 |          |
| W7E/1025N              | 201 229  | < 0.2          | 3.72         | 2                      | 100        | 0.5            | < 2   | 0.13         | < 0.5          | 10                                    | 11          | 41       | 2 25         | < 10         | < 1        | 0.08         | 10         | 0.19         | 95         | < 1        |          |
|                        |          |                |              | -                      | 100        |                |   |              |                |                                       |             |          |              |              |            |              |            |              |            |            | i.       |
| W7E/2350N              | 201 229  | < 0.2          | 1.91         | 6                      | 100        | < 0.5          | < 2   | 0.20         | < 0.5          | 9                                     | 22          | 46       | 2.55         | < 10         | < 1        | 0.41         | 20         | 0.68         | 235        | < 1        |          |
| W8E/900N               | 201, 229 | < 0.2          | 2.73         | < 2                    | 120        | 0.5            | < 2   | 0.18         | < 0.5          | 9                                     | 13          | 34       | 2.37         | < 10         | < 1        | 0.15         | 10         | 0.36         | 160        | < 1        |          |
| W8E/2400N              | 201 229  | < 0.2          | 2.11         | - 4                    | 120        | < Q.Ş          | < 2   | 0.20         | < 0.5          | 10                                    | 22          | 39       | 2.37         | < 10         | < 1        | 0.46         | 10         | 0.80         | 345        | < 1        |          |
| W98/875N               | 201 229  | < 0.2          | 1.61         | < 2                    | 40         | < 0.5          | < 2   | 0.62         | < 0.5          | 11                                    | 8           | 49       | 2.63         | < 10         | < 1        | 0.17         | < 10       | 0.55         | 270        | < 1        |          |
| W10E/925N              | 201 229  | < 0.2          | 1.83         | 4                      | 80         | < 0.5          | < 2   | 0.26         | < 0.5          | 9                                     | 16          | 51       | 2.84         | < 10         | < 1        | 0.42         | 20         | 0.68         | 240        | < 1        | i.       |
| XOE/ON                 | 201 229  | < 0.2          | 1.23         | 2                      | 90         | < 0.5          | < 2   | 0.19         | < 0.5          | 8                                     | 18          | 28       | 1.97         | < 10         | < 1        | 0.49         | 10         | 0.56         | 235        | < 1        | 1        |
| K1E/1575N              | 201 229  | < 0.2          | 1.64         | 4                      | 140        | 0.5            | < 2   | 0.16         | < 0.5          | 8                                     | 18          | 30       | 2.41         | < 10         | < 1        | 0.46         | 20         | 0.61         | 330        | 1          |          |
| X2E/25N                | 201 229  | < 0.2          | 0.89         | 2                      | 60         | < 0.5          | < 2   | 0.17         | < 0.5          | 7                                     | 13          | 21       | 1.59         | < 10         | < 1        | 0.27         | 10         | 0.39         | 215        | < 1        |          |
| X2E/1525N              | 201 229  | < 0.2          | 3.04         | < 2                    | 200        | 0.5            | < 2   | 0.19         | < 0.5          | 11                                    | 22          | 40       | 2.96         | < 10         | < 1        | 0.69         | 20         | 0.B2         | 450        | < 1        |          |
| X3E/200N               | 201 229  | < 0.2          | 1.77         | 2                      | 150        | < 0.5          | < 2   | 0.16         | < 0.5          | 8                                     | 13          | 27       | 1.76         | < 10         | 1          | 0.22         | 10         | 0.38         | 190        | < 1        | i.       |
| X3E/1475N              | 201 229  | 0.2            | 5.14         | < 2                    | 220        | 1.0            | < 2   | 0.43         | < 0.5          | 17                                    | 35          | 134      | 4.47         | 10           | < 1        | 1.10         | 120        | 1.10         | 630        | < 1        | <        |
| X4E/1325N              | 201 229  | < 0.2          | 1.70         | 2                      | 110        | < 0.5          | < 2   | 0.24         | < 0.5          | ٦́و                                   | 17          | 20       | 2.10         | < 10         | < î        | 0.48         | 20         | 0.59         | 205        | < 1        | <u>`</u> |
| K5E/1275N              | 201 229  |                | 2.70         | 4                      | 160        | 0.5            | < 2   | 0.29         | < 0.5          | 10                                    | 23          | 25       | 2.50         | < 10         | < 1        | 0.62         | 20         | 0.92         | 340        | < 1        | 1        |
| K6E/325N               | 201 229  | < 0.2          | 2.05         | < 2                    | 130        | < 0.5          | < 2   | 0.33         | < 0.5          | 10                                    | 18          | 37       | 2.25         | < 10         | < 1        | 0.46         | 20         | 0.72         | 260        | < 1        | 1        |
| K6E/1250N              | 201 229  | < 0.2          | 1.72         | 4                      | 140        | < 0.5          | < 2   | 0.21         | < 0.5          | 8                                     | 17          | 20       | 1.93         | < 10         | 1          | 0.42         | 10         | 0.61         | 195        | < 1        | 1        |
|                        |          |                |              |                        |            |                |   |              |                |                                       |             |          |              |              |            |              |            |              |            |            | 1        |
| X7E/300N               | 201 229  | < 0.2          | 1.60         | < 2                    | 360        | < 0.5          | < 2   | 0.25         | < 0.5          | 7                                     | 10          | 18       | 1.39         | < 10         | < 1        | 0.19         | < 10       | 0.36         | 375        | < 1        | 1        |
| X7E/1225N<br>X8E/275N  | 201 229  | < 0.2          | 3.00         | <u> </u>               |            | 0.5            | ≤≩  | 0.26         | < 0.5<br>× 0.5 | 10<br>8                               | 18<br>18    | 41<br>29 | 2.33<br>1.98 | < 10<br>< 10 | < 1<br>< 1 | 0.38<br>0.48 | 20<br>20   | 0.56<br>0.75 | 390<br>205 | 1<br>< 1   | 1        |
| X8E/1/5N<br>X8E/1175N  | 201 229  | < 0.2          | 1.80 2.08    | $ \overline{D}\rangle$ |            | < 0.5          | ∖∖≤ 2<br>∖< 2:                                | 0.22         | × 0.5          | 7                                     | 13          | 21       | 1.79         | < 10         | < 1        | 0.35         | 10         | 0.44         | 250        | < 1        | 1        |
| X9E/250N               | 201 229  |                | 2.56         |                        | p220       | < 0.5          |   | 0.24         | ¢ 0.5          | ,<br>B                                | 11          | 31       | 1.68         | < 10         | < 1        | 0.20         | 10         | 0.31         | 125        | < 1        | I        |
|                        |          |                |              | 10 -02                 | P-22       |                |   |              |                | •                                     |             | • =      |              |              |            |              |            |              |            | • -        | 1        |
|                        |          |                |              | +                      |            | 115            | <u>,                                     </u> |              | _              |                                       |             |          |              |              |            |              |            | _            |            |            |          |
|                        |          |                |              |                        | DE         | C 19           | 1995  |              |                |                                       |             |          |              |              |            | 1            | - 1.       | $\sim 2.7$   | 1100.      |            |          |
|                        |          |                |              |                        |            | • I V          | 1000  |              |                |                                       |             |          | (            | CERTIFIC     | DATION:    |              |            | See.         | 1100       |            |          |
|                        |          |                |              |                        |            |                |   |              |                |                                       |             |          |              |              |            | •            |            |              |            |            |          |
|                        |          |                |              | PRO                    | SPEC       | TORS           | PROC  | RAM          |                |                                       |             |          |              |              |            |              |            |              |            |            |          |
|                        |          |                |              |                        |            |                |   | a nevrvi     | Į.             |                                       |             |          |              |              |            |              |            |              |            |            |          |
|                        |          |                |              | <u> </u>               |            | MEMP           | H   |              |                | · · · · · · · · · · · · · · · · · · · |             |          |              |              |            |              |            |              |            |            |          |
|                        |          |                |              |                        |            |                |   |              |                |                                       |             |          |              |              |            |              |            |              |            |            |          |

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## Chemex Labs Ltd.

To: ROYER, GUY

BOX 211 ST. LOUIS, SK S0J 2C0 Page Number <sup>\*</sup>1-B Total Pages :2 Certificate Date: 04-OCT-95 Invoice No. : 19529457 P.O. Number : Account : JFU

A9529457

Analytical Chemists \* Geochemists \* Registered Assayers 212 Brooksbank Ave., North Vancouver British Columbia, Canada V7J 2C1 PHONE: 604-984-0221 FAX: 604-984-0218

Project : B HORIZON MATERIAL Comments: ATTN: GUY ROYER \*\*

CERTIFICATE OF ANALYSIS

PREP Na Ni Ρ Pb Sb ₿¢. Ti Τ1 U V W Zn Sr SAMPLE CODE % ۰ ppm ₽₽Щ ррш ppm ppm ppm ppm ppm ppm ppm ppm 201 229 93 46 NOE/700N 0.05 10 100 10 < 2 6 11 0.15 < 10 < 10 < 10 MOE/1025N 201 229 0.02 10 670 10 < 2 3 9 0.11 < 10 < 10 62 < 10 56 W0E/2100N 201 229 0.02 12 290 54 78 14 < 2 4 15 0.15 < 10 < 10 < 10 201 229 W1E/950N 0.02 8 120 0.12 < 10 < 10 54 < 10 34 4 < 2 3 6 201 229 0.03 9 230 3 9 0.10 < 10 46 < 10 36 W1E/2150E 6 < 2 < 10 W2E/975N 201 229 0.03 15 1050 3 0.14 < 10 < 10 49 < 10 50 12 < 2 15 W2E/2175N 201 229 0.03 130 0.10 < 10 < 10 37 < 10 24 6 -6 < 2 2 B W3E/1100N 201 229 0.04 19 1040 14 < 2 3 16 0.16 < 10 < 10 63 < 10 62 W3E/2200N 201 229 0.01 10 130 4 0.14 < 10 < 10 44 < 10 50 8 < 2 10 34 W3E/3300N 201 229 0.03 9 150 6 < 2 3 9 0.12 < 10 < 10 48 < 10 7 W4E/950N 201 229 0.01 200 0.06 < 10 < 10 32 < 10 24 8 < 2 1 9 M4E/2350N 201 229 0.02 11 210 8 < 2 4 10 0.14 < 10 < 10 50 < 10 50 W4E/2950N 201 229 0.01 20 290 я < 2 6 14 0.18 < 10 < 10 57 < 10 100 W5E/1100N 201 229 0.02 14 1060 10 < 2 2 14 0.11 < 10 < 10 45 < 10 54 W5E/2400N 201 229 < 0.01 11 340 8 < 2 3 13 0.17 < 10 < 10 35 < 10 92 W5E/2875N 201 229 0.04 24 340 6 8 14 0.16 < 10 < 10 83 < 10 70 < 2 170 < 10 < 10 < 10 40 W6E/1050N 201 229 0.04 12 10 3 9 0.11 54 < 2 201 229 17 780 < 10 52 78 W6E/2300N 0.03 14 4 19 0.13 < 10 < 10 < 2 0.03 W6E/2750N 201 229 14 310 6 5 14 0.16 < 10 < 10 58 < 10 64 < 2 W7E/1025N 201 229 0.04 13 620 8 < 2 3 11 0.12 < 10 < 10 46 < 10 44 W7E/2350N 201 229 0.01 13 200 8 < 2 4 12 0.13 < 10 < 10 53 < 10 52 W8E/900N 201 229 0.03 15 170 10 < 2 2 14 0.13 < 10 < 10 50 < 10 38 W8E/2400N 201 229 0.02 13 230 44 < 10 66 8 < 2 3 12 0.15 < 10 < 10 W9E/875N 201 229 0.08 9 180 6 8 0.17 < 10 < 10 91 < 10 40 4 < 2 M10E/925N 201 229 0.03 11 190 8 < 2 6 10 0.15 < 10 < 10 59 < 10 56 XOE/ON 201 225 0.02 10 240 12 < 2 2 12 0.10 < 10 < 10 32 < 10 48 115 X12/1575N 201 229 0.01 12 14 43 70 330 < 2 з 16 0.13 < 10 < 10 < 10 201 229 X2E/25N 0.02 ₿ 230 12 28 42 < 2 2 8 0.08 < 10 < 10 < 10 201 229 0.01 28 46 102 K2E/1525N 16 660 24 0.15 < 10 < 10 < 10 < 2 4 201 229 520 12 48 ULU 1 3 .30 0.02 12 2 15 0.09 < 10 28 < 10 K3E/200N < 2 < 10 201 229 0.02 40 840 28 12 45 0.19 < 10 68 < 10 148 X3E/1475N < 2 < 10 X4E/1325N 201 229 0.02 12 320 12 < 2 3 18 0.11 < 10 < 10 38 < 10 54 λA X5E/1275N 201 229 0.02 19 410 18 < 2 3 37 0.14 < 10 < 10 37 < 10 86 1.72.4 201 229 X6E/325N 0.03 16 250 10 < 2 19 0.13 < 10 < 10 42 < 10 62 4 201 229 0.01 13 270 10 < 2 2 19 < 10 33 < 10 58 X6E/1250N 0.11 < 10 Company of the Article 201 229 X7E/300N 0.02 14 1550 10 < 2 1 31 0.08 < 10 < 10 22 < 10 66 201 229 X7E/1225N 0.03 21 1240 14 < 2 3 31 0.13 < 10 < 10 36 < 10 102 201 229 X8E/275N 0.03 14 440 10 < 2 3 21 0.11 < 10 < 10 36 < 10 56 X8E/1175N 201 229 0.05 14 410 8 < 2 2 23 0.11 < 10 < 10 29 < 10 74 201 229 25 < 10 26 X98/250N 0.04 17 380 8 < 2 2 0.11 < 10 < 10 46

CERTIFICATION:

16-22 8

11.58



## **Chemex Labs Ltd.**

Analytical Chemists \* Geochemists \* Registered Assayers

212 Brooksbank Ave., North Vancouver British Columbia, Canada V7J 2C1 PHONE: 604-984-0221 FAX: 604-984-0218 To: ROYER, GUY

BOX 211 ST. LOUIS, SK S0J 2C0

Project : B HORIZON MATERIAL Comments: ATTN: GUY ROYER \*\*

Page Number <sup>1</sup>2-A Total Pages <sup>1</sup>2 Certificate Date: 04-OCT-95 Invoice No. <sup>1</sup>19529457 P.O. Number <sup>1</sup> Account <sup>1</sup>JFU

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|   |   |  |                                      |  |                                 |  |  |                                      |  | ÇE                      | RTIFI                      | CATE                       | OF A                                 | NALY   | 'SIS                                   | A                                    | 9529                       | 457                                  |   | 1                               |
|---|---|--|--------------------------------------|--|---------------------------------|--|--|--------------------------------------|--|-------------------------|----------------------------|----------------------------|--------------------------------------|--|--|--------------------------------------|----------------------------|--------------------------------------|---|---------------------------------|
| SAMPLE  | PREP<br>CODE  | Ag<br>ppm  | <b>A</b> 1<br>%                      | As<br>ppm                                      | Ba<br>pp <b>m</b>               | Be<br>ppm  | Bi<br>ppm  | Ca<br>%                              | Cđ<br>ppm  | Со<br>ррт               | Cr<br>ppm                  | Cu<br>ppm                  | Fe<br>%                              | Ga<br>ppm                                    | Hg<br>mqq                              | K<br>%                               | La<br>ppm                  | Mg<br>%                              | Mn<br>ppm                               | Mo<br>ppm                       |
| X9E/1100N<br>X10E/1125N<br>X11E/250N<br>X11E/1100N<br>X12E/275N   | 201 229<br>201 229<br>201 229<br>201 229<br>201 229<br>201 229            | < 0.2<br>< 0.2<br>< 0.2<br>< 0.2<br>< 0.2          | 2.34<br>1.40<br>2.50<br>2.78<br>2.85 | 6<br>< 2<br>4<br>< 2<br>2                      | 120<br>90<br>240<br>270<br>240  | < 0.5<br>< 0.5<br>0.5<br>0.5<br>0.5                | < 2<br>< 2<br>< 2<br>< 2<br>< 2                      | 0.32<br>0.21<br>0.33                 | < 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5          | 9<br>8<br>9<br>10<br>9  | 25<br>17<br>17<br>14<br>13 | 34<br>22<br>28<br>33<br>36 | 2.30<br>1.82<br>2.06<br>1.96<br>1.77 | < 10<br>< 10<br>< 10<br>< 10<br>< 10         | < 1<br>< 1<br>< 1<br>< 1<br>< 1        | 0.46<br>0.45<br>0.27<br>0.26<br>0.19 | 20<br>20<br>10<br>10<br>10 | 0.93<br>0.57<br>0.56<br>0.46<br>0.41 | 235<br>330<br>325<br>195<br>305         | < 1<br>< 1<br>< 1<br>< 1<br>< 1 |
| x12E/1050N<br>x13E/1000N<br>x14E/1000N<br>x15E/925N<br>x16E/275N  | 201 229<br>201 229<br>201 229<br>201 229<br>201 229<br>201 229<br>201 229 | < 0.2<br>< 0.2<br>< 0.2<br>< 0.2<br>< 0.2          | 1.25<br>2.60<br>2.23<br>2.49<br>1.79 | 4<br>2<br>2<br>2<br>2<br>4<br>2<br>2<br>4<br>2 | 50<br>230<br>170<br>220<br>130  | < 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5 | < 2<br>< 2<br>< 2<br>< 2<br>< 2                      | 0.33<br>0.33<br>0.25                 | < 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5 | 9<br>9<br>9<br>9<br>9   | 16<br>17<br>19<br>15<br>16 | 36<br>27<br>33<br>37<br>25 | 2.14<br>1.99<br>1.97<br>2.02<br>1.89 | < 10<br>< 10<br>< 10<br>< 10<br>< 10<br>< 10 | < 1<br>< 1<br>< 1<br>< 1<br>< 1        | 0.34<br>0.30<br>0.36<br>0.35<br>0.37 | 10<br>10<br>10<br>10<br>10 | 0.62<br>0.59<br>0.62<br>0.49<br>0.57 | 235<br>275<br>310<br>185<br>175         | 1<br>< 1<br>< 1<br>< 1<br>< 1   |
| X16E/875N<br>X17E/225N<br>X17E/775N<br>X18E/725N<br>X19E/700N     | 201 229<br>201 229<br>201 229<br>201 229<br>201 229<br>201 229            | < 0.2<br>< 0.2<br>< 0.2<br>< 0.2<br>< 0.2          | 1.66<br>1.61<br>2.07<br>1.47<br>2.07 | < 2<br>< 2<br>2<br>< 2<br>2<br>2<br>2          | 160<br>110<br>230<br>80<br>160  | < 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5 | < 2<br>< 2<br>< 2<br>< 2<br>< 2<br>< 2               | 0.18<br>0.29<br>0.28                 | < 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5 | 7<br>7<br>8<br>11<br>8  | 14<br>10<br>12<br>13<br>13 | 19<br>17<br>27<br>25<br>28 | 1.47<br>1.36<br>1.86<br>2.05<br>1.96 | < 10<br>< 10<br>< 10<br>< 10<br>< 10<br>< 10 | < 1<br>< 1<br>< 1<br>< 1<br>< 1        | 0.26<br>0.20<br>0.29<br>0.49<br>0.32 | 10<br>10<br>10<br>10<br>10 | 0.42<br>0.42<br>0.45<br>0.58<br>0.48 | 170<br>1 <b>15</b><br>165<br>300<br>370 | 1<br>1<br>< 1<br>< 1<br>< 1     |
| X20E/250N<br>X20E/650N<br>X21E/600N<br>X22E/575N<br>X23E/575N     | 201 229<br>201 229<br>201 229<br>201 229<br>201 229<br>201 229<br>201 229 | < 0.2<br>< 0.2<br>< 0.2<br>< 0.2<br>< 0.2<br>< 0.2 | 1.48<br>2.95<br>2.64<br>1.75<br>2.37 | 2<br>2<br>< 2<br>< 2<br>4                      | 130<br>230<br>350<br>140<br>270 | < 0.5<br>0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5   | < 2<br>< 2<br>< 2<br>< 2<br>< 2<br>< 2               |                                      | < 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5 | 7<br>9<br>8<br>7        | 11<br>15<br>11<br>10<br>10 | 18<br>40<br>29<br>25<br>29 | 1.66<br>2.02<br>2.05<br>1.75<br>1.79 | < 10<br>< 10<br>< 10<br>< 10<br>< 10<br>< 10 | < 1<br>< 1<br>< 1<br>< 1<br>< 1<br>< 1 | 0.30<br>0.26<br>0.24<br>0.27<br>0.19 | 10<br>10<br>10<br>10<br>10 | 0.43<br>0.52<br>0.44<br>0.44<br>0.36 | 245<br>225<br>260<br>185<br>185         | < 1<br>< 1<br>< 1<br>< 1<br>< 1 |
| NMM – 50E<br>NMM – 150E<br>NMM – 250E<br>NMM – 350E<br>NMM – 450E | 201 229<br>201 229<br>201 229<br>201 229<br>201 229<br>201 229            | < 0.2<br>< 0.2<br>< 0.2<br>< 0.2<br>< 0.2<br>< 0.2 | 2.08<br>2.09<br>1.08<br>1.54<br>1.60 | < 2<br>4<br>< 2<br>2<br>< 2                    | 120<br>150<br>60<br>90<br>70    | < 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5 | < 2<br>< 2<br>< 2<br>< 2<br>< 2<br>< 2<br>< 2<br>< 2 | 0.35                                 | < 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5 | 11<br>12<br>7<br>9<br>8 | 18<br>19<br>10<br>11<br>14 | 31<br>43<br>17<br>27<br>24 | 2.25<br>3.12<br>1.48<br>2.17<br>2.16 | < 10<br>< 10<br>< 10<br>< 10<br>< 10<br>< 10 | < 1<br>< 1<br>< 1<br>< 1<br>< 1<br>< 1 | 0.37<br>0.52<br>0.21<br>0.25<br>0.37 | 10<br>30<br>10<br>10<br>10 | 0.77<br>0.85<br>0.48<br>0.57<br>0.71 | 300<br>270<br>145<br>190<br>190         | < 1<br>1<br>< 1<br>< 1<br>< 1   |
| NMM-700E<br>NMM-1900N<br>CM-000E<br>CM-100E<br>CM-200E            | 201 229<br>201 229<br>201 229<br>201 229<br>201 229<br>201 229            | 0.2<br>< 0.2<br>< 0.2<br>< 0.2<br>< 0.2<br>< 0.2   | 3.84<br>1.36<br>1.96<br>1.12<br>0.92 | < 2<br>6<br>4<br>2<br>< 2                      | 250<br>80<br>110<br>60<br>50    | 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5   | < 2<br>< 2<br>< 2<br>< 2<br>< 2<br>< 2<br>< 2        | 0.23<br>0.35<br>0.39<br>0.18<br>0.23 | < 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5 | 13<br>9<br>10<br>6<br>7 | 15<br>12<br>18<br>11<br>9  | 68<br>27<br>43<br>21<br>25 | 2.52<br>1.95<br>3.01<br>1.62<br>1.59 | < 10<br>< 10<br>< 10<br>< 10<br>< 10<br>< 10 | < 1<br>< 1<br>< 1<br>< 1<br>< 1        | 0.26<br>0.30<br>0.48<br>0.26<br>0.21 | 10<br>10<br>20<br>10<br>10 | 0.47<br>0.53<br>0.83<br>0.50<br>0.39 | 420<br>200<br>325<br>140<br>140         | < 1<br>< 1<br>< 1<br>< 1<br>< 1 |
| CM-300E<br>CM-400E<br>X25E-50N<br>X26E-200N<br>X27E-400N          | 201 229<br>201 229<br>201 229<br>201 229<br>201 229<br>201 229            | 0.2<br>< 0.2<br>< 0.2<br>< 0.2<br>< 0.2<br>< 0.2   | 2.26<br>1.49<br>1.25<br>1.19<br>1.81 | 4<br>< 2<br>2<br>< 2                           | 150<br>80<br>80<br>60<br>80     | < 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5 | < 2<br>< 2<br>< 2<br>< 2<br>< 2<br>< 2               | 0.30<br>0.34<br>0.22<br>0.21<br>0.27 | < 0.5<br>< 0.5<br>< 0.5<br>< 0.5<br>< 0.5          | 9<br>11<br>7<br>9<br>10 | 13<br>14<br>13<br>13<br>21 | 33<br>45<br>35<br>25<br>37 | 2.20<br>2.47<br>1.93<br>2.05<br>2.48 | < 10<br>< 10<br>< 10<br>< 10<br>< 10<br>< 10 | < 1<br>< 1<br>< 1<br>< 1<br>< 1        | 0.18<br>0.44<br>0.31<br>0.44<br>0.58 | 10<br>20<br>10<br>20<br>20 | 0.47<br>0.63<br>0.51<br>0.56<br>0.74 | 230<br>300<br>210<br>265<br>280         | < 1<br>< 1<br>< 1<br>< 1<br>< 1 |
| X28E-600N<br>X29E-800N<br>X30E-1000N                              | 201 229<br>201 229<br>201 229<br>201 229                                  | < 0.2<br>< 0.2<br>< 0.2                            | 1.18<br>1.46<br>1.63                 | 2<br>< 2<br>2                                  | 60<br>70<br>80                  | < 0.5<br>< 0.5<br>< 0.5                            | < 2<br>< 2<br>< 2                                    | 0.25<br>0.30<br>0.18                 | < 0.5<br>< 0.5<br>< 0.5                            | 9<br>9<br>8             | 20<br>20<br>15             | 27<br>31<br>23             | 1.93<br>2.10<br>2.17                 | < 10<br>< 10<br>< 10                         | < 1<br>< 1<br>< 1                      | 0.41<br>0.49<br>0.48                 | 20<br>20<br>20             | 0.52<br>0.64<br>0.52                 | 205<br>230<br>235                       | < 1<br>< 1<br>< 1               |
|   |   |  |                                      |  |                                 |  |  |                                      |  |                         |                            |                            |                                      |  |  |                                      |                            |                                      |   |                                 |

CERTIFICATION:\_\_\_

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### Chemex Labs Ltd. Analytical Chemists \* Geochemists \* Registered Assayers

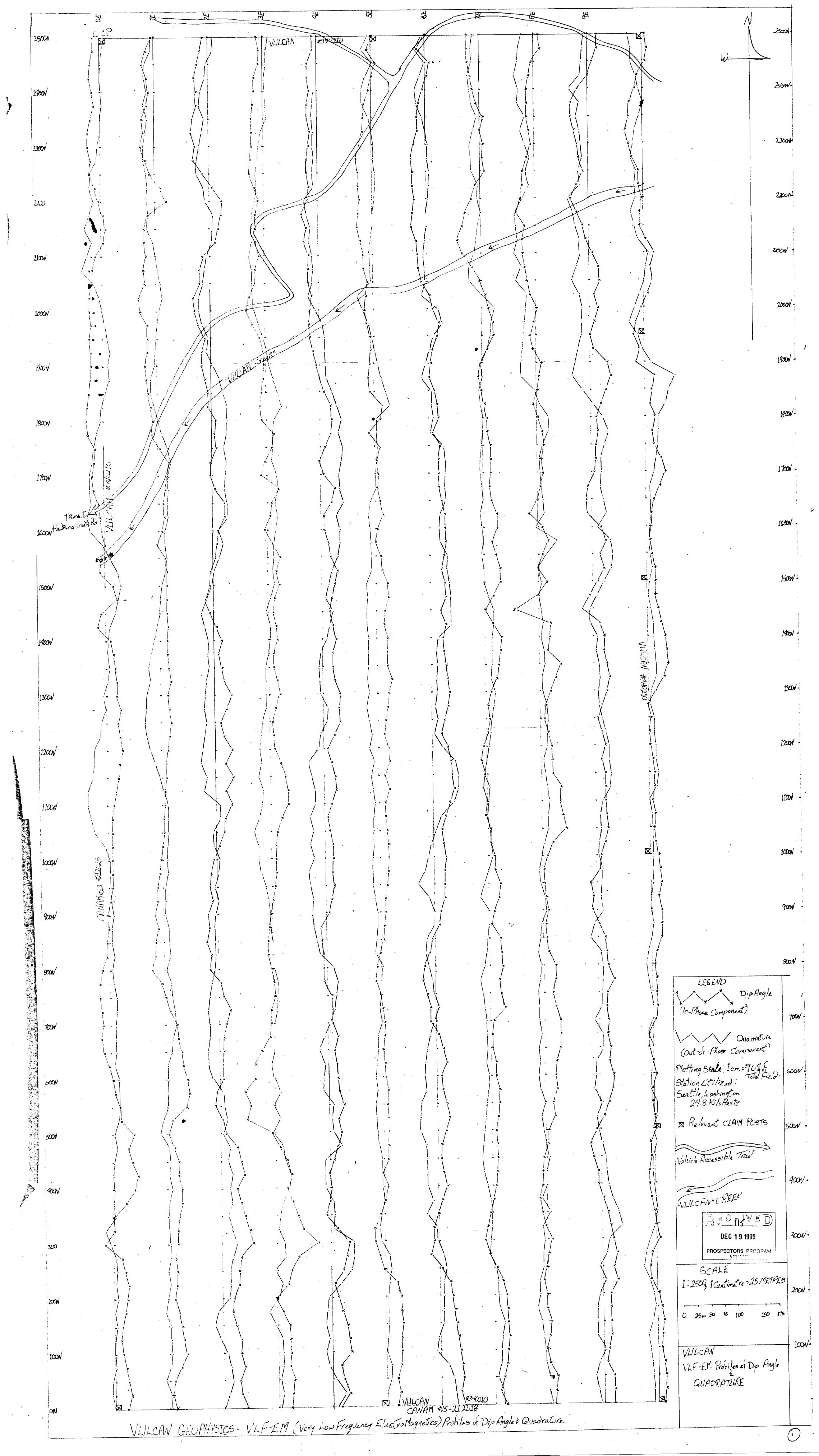
212 Brooksbank Ave., North Vancouver British Columbia, Canada V7J 2C1 PHONE: 604-984-0221 FAX: 604-984-0218 To: ROYER, GUY

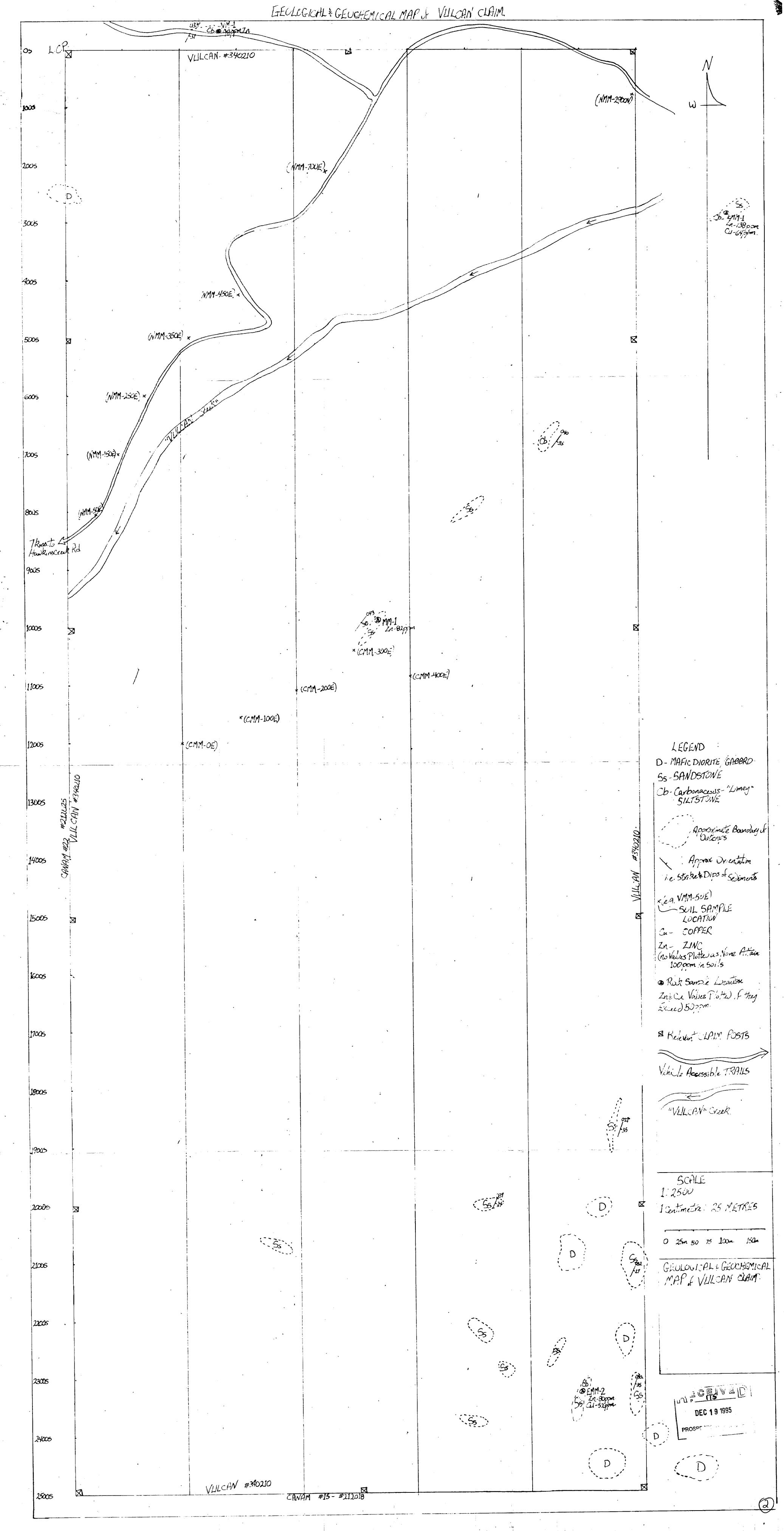
BOX 211 ST. LOUIS, SK S0J 2C0

Project : B HORIZON MATERIAL Comments: ATTN: GUY ROYER Page Number 2-B Total Pages 2 Certificate Date: 04-OCT-95 Invoice No. 19529457 P.O. Number 2 Account JFU

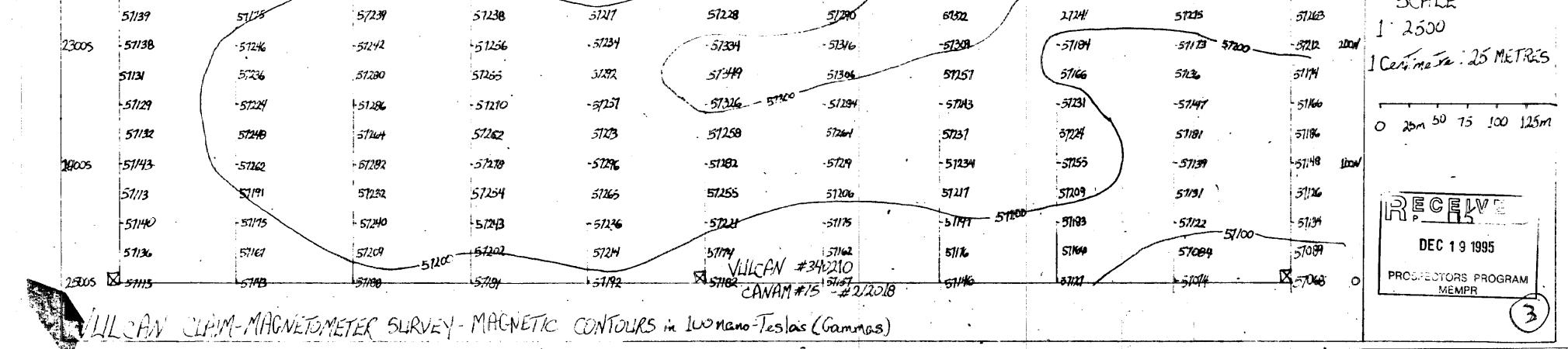
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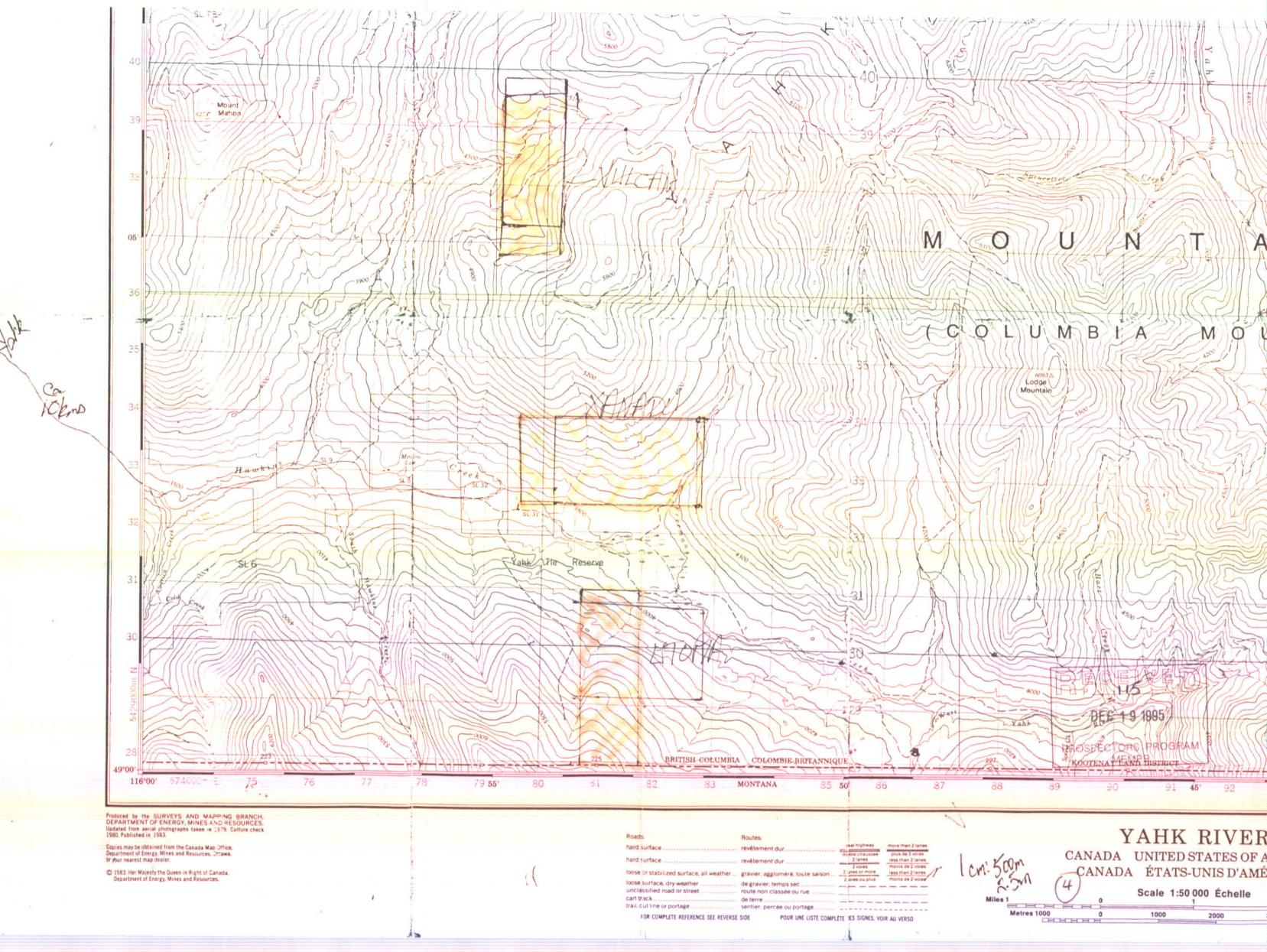
|   |                                  |   |  |                            |   |                            |   |                       | ÇE                         | RTIF                                 | CATE   | NALYSIS                                      | A9529457                   |  |                            |              |
|---|----------------------------------|---|--|----------------------------|---|----------------------------|---|-----------------------|----------------------------|--------------------------------------|--|--|----------------------------|--|----------------------------|--------------|
| SAMPLE  | PREI                             |   | Na<br>%                                      | Ni<br>ppm                  | 9<br>ppm                                | Pb<br>ppm                  | Sb<br>ppm                                     | Sc<br>ppm             | Sr<br>ppm                  | Tİ<br>%                              | T1<br>ppm                                    | U<br>mqq                                     | A<br>Döw                   | W<br>mqq                                     | Zn<br>ppm                  |              |
| x9E/1100N       x10E/1125N       x11E/250N       x11E/1100N       x12E/275N | 201 2<br>201 2<br>201 2<br>201 2 | 229<br>229<br>229<br>229<br>229<br>229<br>229 | 0.02<br>0.01<br>0.01<br>0.03<br>0.03         | 21<br>11<br>15<br>19<br>20 | 250<br>250<br>760<br>530<br>1620<br>200 | 16<br>10<br>12<br>10<br>8  | < 2<br>< 2<br>< 2<br>< 2<br>< 2<br>< 2<br>< 2 | 3<br>3<br>3<br>2<br>4 | 23<br>19<br>29<br>42<br>34 | 0.13<br>0.09<br>0.11<br>0.12<br>0.12 | < 10<br>< 10<br>< 10<br>< 10<br>< 10<br>< 10 | < 10<br>< 10<br>< 10<br>< 10<br>< 10<br>< 10 | 37<br>32<br>35<br>33<br>29 | < 10<br>< 10<br>< 10<br>< 10<br>< 10<br>< 10 | 98<br>54<br>78<br>72<br>70 |              |
| x12e/1050N<br>x13e/1000N<br>x14e/1000N<br>x15e/925N<br>x15e/275N            | 201 2<br>201 2<br>201 2          | 229<br>229<br>229<br>229<br>229               | 0.04<br>0.03<br>0.04<br>0.02                 | 12<br>16<br>17<br>20<br>14 | 690<br>680<br>570<br>330                | 12<br>10<br>12<br>12<br>8  | < 2<br>< 2<br>< 2<br>< 2<br>< 2<br>< 2        | 2<br>3<br>3<br>3      | 14<br>28<br>25<br>23<br>19 | 0.09<br>0.12<br>0.11<br>0.11<br>0.12 | < 10<br>< 10<br>< 10<br>< 10<br>< 10         | < 10<br>< 10<br>< 10<br>< 10<br>< 10         | 52<br>31<br>33<br>33<br>36 | < 10<br>< 10<br>< 10<br>< 10<br>< 10         | 38<br>74<br>70<br>74<br>50 |              |
| X16E/875N<br>X17E/225N<br>X17E/775N<br>X18E/725N<br>X19E/725N               | 201 2<br>201 2                   | 229<br>229<br>229<br>229<br>229<br>229        | 0.02<br>0.02<br>0.03<br>0.02<br>0.03         | 12<br>12<br>14<br>10<br>13 | 470<br>420<br>500<br>270<br>440         | 6<br>6<br>10<br>10         | < 2<br>< 2<br>< 2<br>< 2<br>< 2<br>< 2        | 2<br>1<br>3<br>3<br>3 | 14<br>17<br>23<br>14<br>23 | 0.08<br>0.08<br>0.10<br>0.13<br>0.11 | < 10<br>< 10<br>< 10<br>< 10<br>< 10<br>< 10 | < 10<br>< 10<br>< 10<br>< 10<br>< 10<br>< 10 | 24<br>23<br>34<br>48<br>37 | < 10<br>< 10<br>< 10<br>< 10<br>< 10<br>< 10 | 52<br>42<br>64<br>46<br>68 |              |
| K20E/250N<br>K20E/650N<br>K21E/600N<br>K22E/575N<br>K23E/575N               | 201 2<br>201 2<br>201 2          | 229<br>229<br>229<br>229<br>229<br>229        | 0.02<br>0.04<br>0.03<br>0.03<br>0.02         | 11<br>17<br>14<br>11<br>13 | 390<br>1230<br>1220<br>380<br>1140      | 6<br>12<br>8<br>6<br>8     | < 2<br>< 2<br>< 2<br>< 2<br>< 2<br>< 2        | 2<br>3<br>3<br>3<br>2 | 18<br>32<br>26<br>21<br>22 | 0.09<br>0.13<br>0.11<br>0.10<br>0.09 | < 10<br>< 10<br>< 10<br>< 10<br>< 10<br>< 10 | < 10<br>< 10<br>< 10<br>< 10<br>< 10<br>< 10 | 32<br>35<br>37<br>37<br>33 | < 10<br>< 10<br>< 10<br>< 10<br>< 10         | 46<br>84<br>74<br>46<br>58 |              |
| NNM - 502<br>NNM - 1502<br>NNM - 2502<br>NNM - 3502<br>NNM - 4502           | 201 2<br>201 2<br>201 2          | 229<br>229<br>229<br>229<br>229<br>229        | 0.02<br>0.04<br>0.03<br>0.03<br>0.03<br>0.04 | 16<br>16<br>9<br>12<br>11  | 860<br>340<br>180<br>290<br>160         | 14<br>14<br>6<br>8<br>8    | < 2<br>< 2<br>< 2<br>< 2<br>< 2<br>< 2        | 3<br>4<br>2<br>3<br>3 | 19<br>16<br>11<br>17<br>13 | 0.11<br>0.13<br>0.08<br>0.10<br>0.11 | < 10<br>< 10<br>< 10<br>< 10<br>< 10         | < 10<br>< 10<br>< 10<br>< 10<br>< 10         | 42<br>54<br>32<br>42<br>47 | < 10<br>< 10<br>< 10<br>< 10<br>< 10         | 74<br>66<br>28<br>44<br>42 |              |
| NNM - 700E<br>NNM - 1900N<br>IM - 000E<br>IM - 100E<br>IM - 200E            | 201 2<br>201 2<br>201 2          | 229<br>229<br>229<br>229<br>229<br>229        | 0.04<br>0.03<br>0.02<br>0.01<br>0.02         | 23<br>10<br>13<br>7<br>7   | 810<br>290<br>370<br>160<br>310         | 14<br>8<br>14<br>8<br>6    | < 2<br>< 2<br>< 2<br>< 2<br>< 2<br>< 2        | 4<br>3<br>4<br>2<br>2 | 25<br>11<br>21<br>8<br>8   | 0.13<br>0.09<br>0.11<br>0.08<br>0.06 | < 10<br>< 10<br>< 10<br>< 10<br>< 10         | < 10<br>< 10<br>< 10<br>< 10<br>< 10         | 43<br>46<br>51<br>31<br>34 | < 10<br>< 10<br>< 10<br>< 10<br>< 10         | 84<br>38<br>60<br>34<br>30 |              |
| IIM-300E<br>IIM-400E<br>K25E-50N<br>K26E-200N<br>K27E-400N                  | 201 2                            | 229<br>229<br>229<br>229<br>229<br>229        | 0.02<br>0.03<br>0.01<br>0.01<br>0.01         | 15<br>12<br>10<br>9<br>14  | 420<br>330<br>250<br>210<br>300         | 12<br>10<br>14<br>12<br>12 | < 2<br>< 2<br>< 2<br>< 2<br>< 2<br>< 2        | 2<br>4<br>2<br>3<br>4 | 20<br>11<br>13<br>13<br>16 | 0.11<br>0.10<br>0.09<br>0.09<br>0.11 | < 10<br>< 10<br>< 10<br>< 10<br>< 10         | < 10<br>< 10<br>< 10<br>< 10<br>< 10         | 39<br>52<br>38<br>39<br>51 | < 10<br>< 10<br>< 10<br>< 10<br>< 10<br>< 10 | 62<br>46<br>42<br>40<br>54 | ie pedatoria |
| X28E-600N<br>X29E-800N<br>X30E-1000N  |                                  | 229<br>229<br>229                             | 0.02<br>0.02<br>0.01                         | 12<br>12<br>12             | 170<br>280<br>180                       | 10<br>8<br>12              | < 2<br>< 2<br>< 2                             | 3<br>3<br>3           | 11<br>13<br><b>14</b>      | 0.09<br>0.11<br>0.10                 | < 10<br>< 10<br>< 10                         | < 10<br>< 10<br>< 10                         | 42<br>41<br>32             | < 10<br>< 10<br>< 10                         | 38<br>48<br>44             |              |



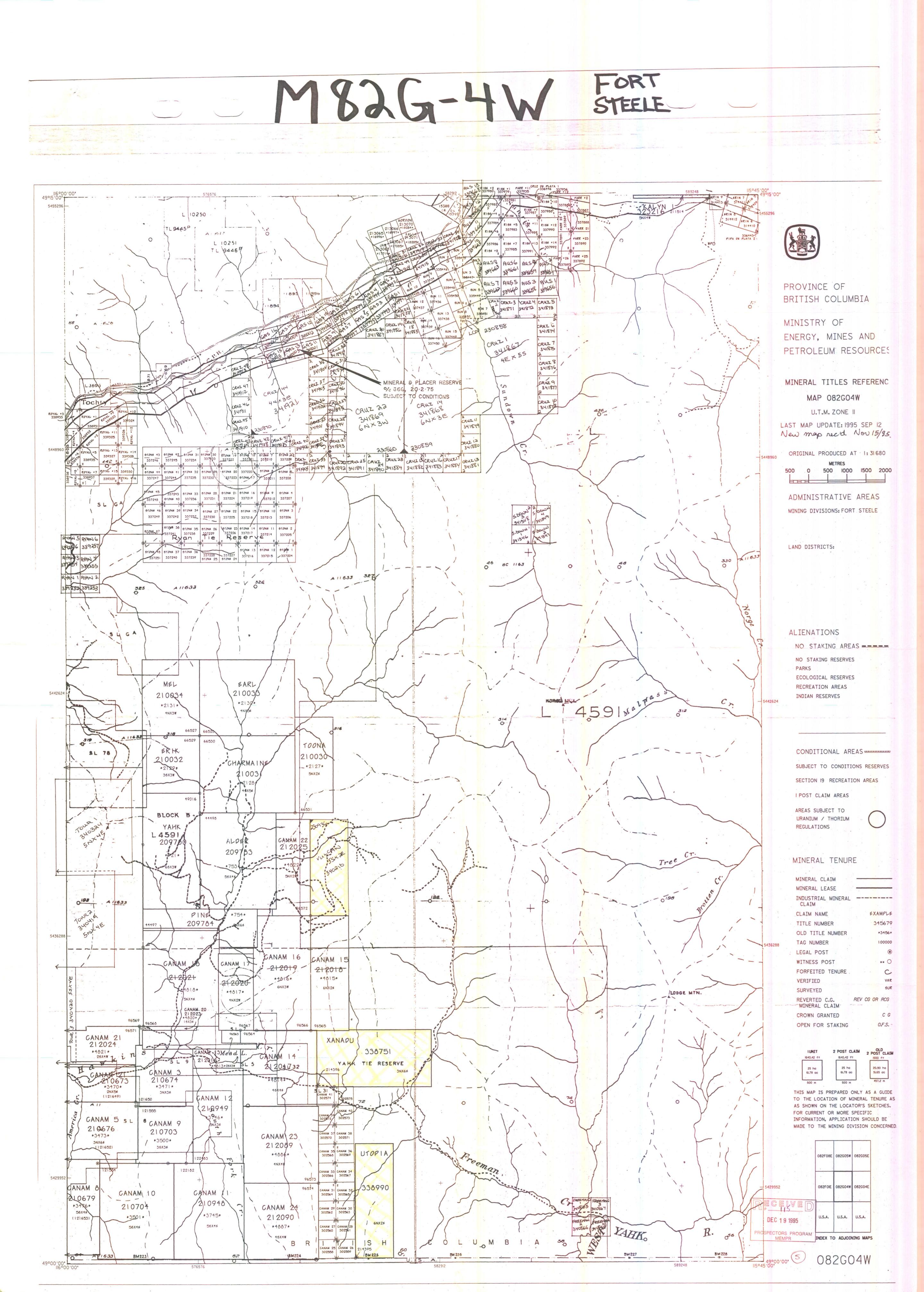


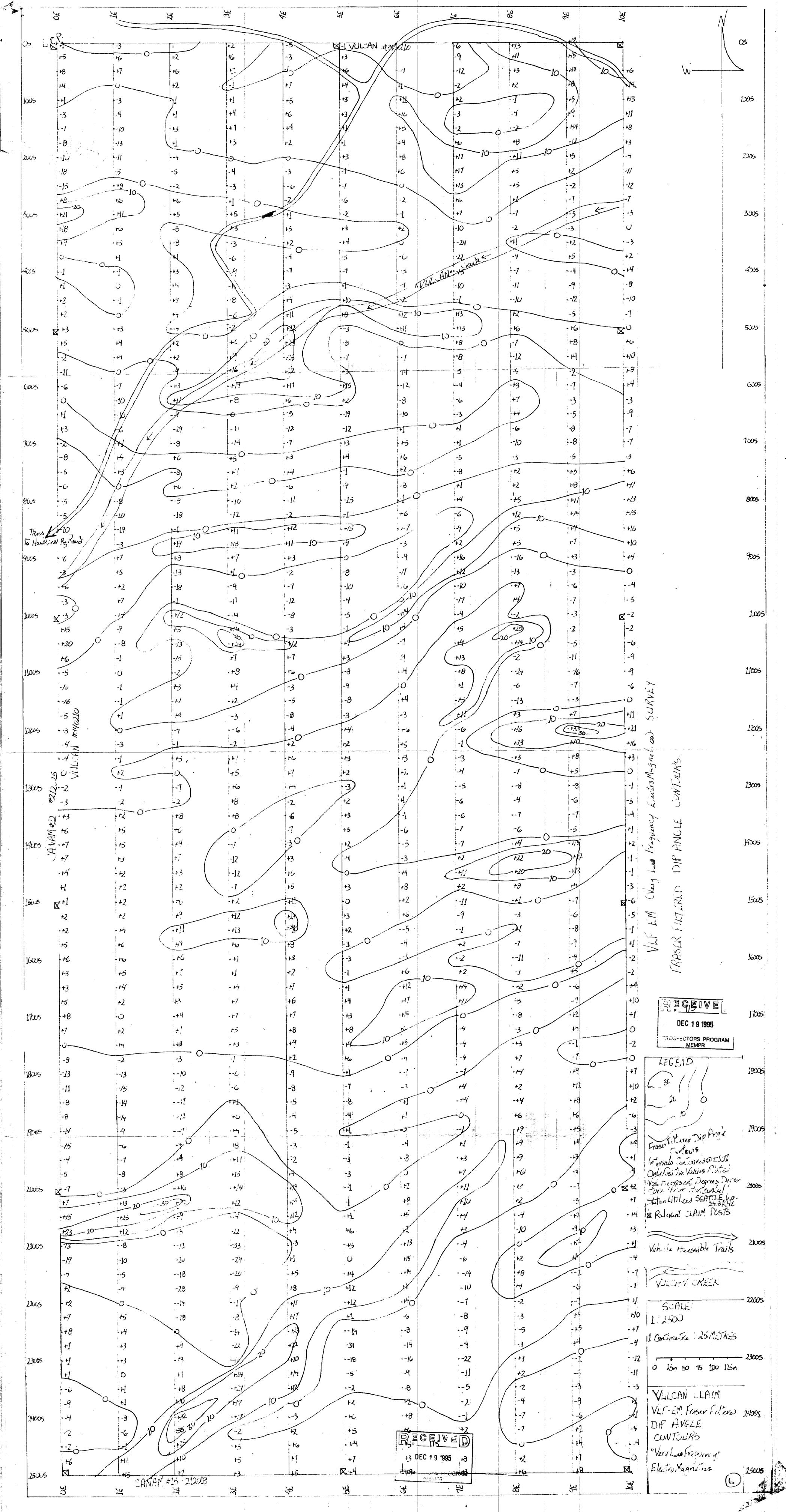
|   | 51748                    | 51/94                   | 51153 VULCA              | N 15999 110                       | × 57/48                      | 157/30   | 57/24                           | 51088                               | 57070  | 51095                  |                                 |
|---|--------------------------|-------------------------|--------------------------|-----------------------------------|------------------------------|--|---------------------------------|-------------------------------------|--|------------------------|---------------------------------|
| 57/2  |                          | 57,40                   | 57/37                    | # 348210<br>51145                 | 57/36                        | 57/42  | 51/24<br>51/56                  | 57055                               | 57094  | 51068                  | ·/                              |
| 57134<br>57139                              |                          | 57/56                   | - <i>5115</i> 8<br>57/34 | 51140<br>51/16                    | 57/32                        | 57/21  | 57/45                           | 30%                                 | - 57084  | 51093                  |                                 |
| 1005 - 57/4                                 |                          | -57/2/                  | -57143                   | -51/4/                            | 51136                        | - 51/40  | - 57/22<br>- 57/56              | 57081                               | 57082  | - 57/141               | 240                             |
| 57137                                       |                          | 57/02                   | 51119                    | 57/69                             | 57167                        | 57/33  | 57/36                           | 3101                                | 57090  | 57138                  | . W-                            |
| 51140<br>57138                              |                          | 57/30                   | -57/43                   | · 51/32<br>51/7/                  | 151154                       | -57/2 <b>6</b><br>57/ <i>5</i> 8   | -51129                          | -51096                              | -57083   | -51166                 |                                 |
| 2005 -57/32                                 | (                        | -57)42                  | - 97093                  | - 51/38                           | -57173                       | -51119   | 51H8<br>-51131                  | 570 <del>94</del><br>- 57076        | 57084  | 51189<br>57193         | 280 <b>0</b> 1                  |
| 57134                                       | . 57/22                  | 57096                   | 57087                    | 51/32                             | . 57/63                      | 57184  | 51093                           | 57088                               | 57078  | 57/62                  |                                 |
| 51/3  | ·                        | -5401                   | - 510%                   | -51171                            | 51202 .                      | -51/96 -57200  | - 57/4                          | - 51160                             | -57084.  | 57/37                  | K                               |
| 5005 5 <b>7/3</b> 7                         | -57.31                   | 51096                   | 57082                    | 51169<br>• 51168                  | 57234<br>-57244              | - 57 <b>18</b> 2   | 57214                           | 57117 <del>1</del><br>- 571895      | 57090  | 57413                  | 4105                            |
| 57/34                                       |                          | 57173                   | 2703                     | 57%5                              | 5726                         | . 57.216   | 51252                           | 5710                                | 5108%  | 57/29                  | 2220                            |
| -57131                                      |                          | - 51105                 | ((                       | -8453                             | -57255                       | - 57238  | - 57249                         | 57161                               | -57080 5   | 51184                  |                                 |
| 57/40<br>4005 <b>-57/38</b>                 |                          | 57099                   | 100 57/11                | 51/62                             | 59488                        | 57233  | 57234                           | 51/44                               | 57/21  | 57/76                  |                                 |
| • 571 <i>3</i> 4                            | 51106                    | 51/02                   | 571.23.                  | - 51/61<br>51/1/                  | -51175<br>51118              | -57799   | 57296                           | -57136                              | -57//9<br>.57//8   | 57149                  | 2100                            |
| -51141                                      | - 37082                  | -51131                  | -57/34                   | -51/63                            | -57/62                       | 57/68  | -51/65                          | -5727                               | -51/20   | -57/78                 |                                 |
| 57/44                                       | 570 <b>93</b>            | 57/06                   | 51/64                    | 51160                             | \$51/11                      | 57/58  | 57219                           | 5TLOH                               | 57077  | 31151                  |                                 |
| 5005 S <sup>-51</sup> /38<br>57/33          | -51081                   | -57090                  | -51121                   | -51111                            | -57/8/<br>57/94 = 5110       | - 57/86  | -51/77                          | -57162                              | -51/22   | × 57/02                | 10001                           |
| -57/33                                      | -51,142                  | 57100                   | 51078                    | 57161<br>-51176                   | 57/94 512                    | ····· • ··· · · · · · · · · · · · · · ·  | 57236                           | 511/11<br>-57135                    | 57/24  | 51118<br>57181         |                                 |
| 57135                                       | 57133                    | 57092                   | 57000                    | 57/65                             | 57308                        | 57343  | 57326                           | 51128                               | 57080  | 57232                  |                                 |
| 5005 - <i>51</i> 733                        | -57/09                   | -57094 K                | -51076                   | 57317                             | -57330                       | -57336   | - 57299                         | -5100                               | 5 7078   | - 57727                | 1900                            |
| 57/37                                       | 57/32                    | 51094                   | 57005                    | 51120                             | 51343                        | 57365  | 57341                           | 57314                               | 57069  | A STROI                |                                 |
| 51/48                                       | sn:Ho                    | 59/33                   | 57093                    | -3112 (<br>51166                  | -57205<br>57209              | -51372<br>57386  | - 51326<br>51301                | 5734                                | -57071<br>51406  | N 571186<br>#350571142 |                                 |
| 1005 -51140                                 | -57159                   | -51070                  | -57088                   | -571 <b>5</b> 1                   | -511%                        | Silet  | -57292                          |                                     | - 57072  | 571162                 | 19001                           |
| 57179                                       |                          | 57090                   | 370 <del>01</del>        | 57 <b>/51</b>                     | 57160                        | 57240  | 57761                           | 57224                               | 57069  | 57/37                  |                                 |
| -57/26                                      | 51/45<br>51/36           | - 57/5Z                 | -57089<br>57083          | -57168<br>57151                   | -511444<br>51/52             | 57199  | - 51210<br>STAD                 | -511238                             | -570(2   | - 57/35                |                                 |
| 105 -51131                                  | 57100                    | - 57088                 | -5700 57002              | -51/19                            | -5711                        | 57164  | 571/81 -571/74                  | -57107                              | -57064   | -571227                | . 17001                         |
| 57/49                                       | 51/26                    | 57104                   | 57100"<br>57/35          | 57145                             | 57/64                        | 51174  | 51/46                           | 51/12                               | 57063  | TOTO                   | -                               |
| 1 Rins Creek Rd                             | - K. 57/04               | · 57140                 | -57/121                  | -57153                            | -51/43                       | - 57/42  | -51186                          | - 57/25                             | - 57084  | - 57/89                |                                 |
| 1005 -51187                                 | 57128<br>-51136          | 51/09                   | 571/6<br>-51/32          | 57149<br>-5714 <del>8</del>       | `57/68<br>-57/32             | 57124<br>- 51132   | 57144<br>-57123                 | 51137                               | and the second  | 1100 8 571215          |                                 |
| 57148                                       | 51083                    | 51098                   | 57079                    |                                   | 1/00-57071                   | 571.2  | 57085                           | 57092                               | 57087  | -51113<br>- 57/84      |                                 |
| 51144                                       | -57095                   | -57/38                  | -57062                   | - 51082                           | -51090                       | - 57056  | -57079                          | -57062                              | 51079  | - 571:55               |                                 |
| 57149                                       | 57/38                    | 57158                   | 57085                    | 57094                             | 57066                        | 57083  | 57074                           | . 51081                             | 570 <b>85</b>  | 57134                  |                                 |
| <sup>0005</sup> 8 <sup>51/45</sup><br>51/44 | - <i>51/</i> 33<br>57/59 | - 57/68<br>57/68        | -5708:<br>57/30<br>57/31 | -57111<br>51116                   | - 57092<br>57/139            | -57074<br>570 <del>8</del> 1   | - 570 <del>04</del><br>57042    | -510 <del>01</del><br>510 <b>81</b> | - 57044  | 57069                  | 1500                            |
| - 57/49                                     | - 57129                  | - 51/15                 | -57/35                   | -51474                            | - 57/20                      | - 51/14  | -51/01                          | - 5 <b>10K</b>                      | - 57864  | -5706                  |                                 |
| 57/21                                       | 57138                    | ·\$7/35                 | 51169                    | 57166                             | 57.4%                        | 57/127   | 57082                           | 51006                               | 57000  | 57//3                  |                                 |
| 1005 -57108                                 |                          | - 51114<br>8114         | -57/27                   | - 31/82                           | -57/28                       | - 51019  | -57063                          | - 57 <b>938</b>                     | - 57060  | 5110 - 57/29           | 14cov                           |
| 57128<br>57/#3                              | 57/3 <b>3</b><br>-57/46  | 57116<br>- 57135        | 57/48                    | 51 <b>194</b><br>- 51 <b>183</b>  | 57/22                        | 57093<br>- 57093   | 51045<br>- 510 <b>3</b> 6       | 57024<br>-57040                     | 57047 `  | -51/23                 |                                 |
| . 51143                                     | 51/59                    | 57/48                   | 57/41                    | 51/ <b>31</b>                     | 57/68                        | 57089  | 57084                           | 5106                                | 57023  | 57001                  |                                 |
| 2005 -51163                                 | -51/66                   | -51/77                  | -51182                   | - 51194                           | 51/19                        | -57/37   | -51121                          | 57114                               | - <b>57047</b>   | - 571284               | 1300                            |
| 51/4  | 57/74                    | 57/94                   | - 51/89                  | 51182                             | 57/42                        | 51176  | 51143                           | 57/39 -                             | 5,075  | 57089                  |                                 |
| 51176                                       |                          | -51172<br>-57760        | -511716<br>57162         | 51/88                             | -57/82<br>57/55              | 57/04<br>5116da  | - 511/65<br>571 <del>/3</del> 1 | -51172<br>51/68                     | 57071  | 51/1/2                 |                                 |
| 3005 3 57136                                | 51411                    | - 57/57                 | - 57/77                  | -57164                            | -57166                       | - 57155  | -51164                          | -51115                              | -57045   | 57/205                 | 1200W                           |
| 77 57141                                    |                          | 51/67                   | 57167                    | 51184                             | 51177                        | 51168  | 51/14                           | 51186                               | 57074  | 57095                  |                                 |
| 57/4/                                       | -57/55                   | - 51/19                 | - 51/43                  | - 57176                           | -57/6 <b>8</b><br>-=1/64     | - 51179  | - 57/81                         | - 511 <b>59</b>                     | 57052  | -51096                 |                                 |
| 1005 N 51142                                | - 52.4/                  | 51/66<br>- 51/14        | 57/68<br>-57/75          | 51162<br>- 57/55                  | 57/6 <del>1</del><br>- 57/86 | - 51185<br>- 51143   | 51169<br>-51186                 | 51/68<br>-31/04                     | -57058<br>-57/58   | 5708/<br>-57/36        | 11001                           |
| 511412                                      | 57/36                    | 51151                   | 51164                    | 51.66                             | . 37/62                      | 51182  | 51115                           | 57173<br>571                        | E'tam  | 57/89                  | TINA                            |
| -57/40                                      |                          | - <i>511/8</i> 5        | - 51175                  | -51/ <b>8</b> 8                   | - 37/73                      | -31719   | -5763                           | 57/06                               | 57079  | -51/59                 | <b>.</b>                        |
| 57/35                                       | 51174<br>-47153          | 57/92                   | 51/01                    | 51/60                             | 571.35                       | 51110  | 57/34                           | 51093                               | 57082  | 57/09                  | · ·                             |
| <sup>005</sup> S <sup>51146</sup><br>57/40  | - +                      | - 57/178<br>157/94      | - 51/12<br>.51/51        | • 57/6 <b>#</b><br>.57/ <b>35</b> | 51078 57/40                  | -57/44<br>57/34  | - 51/26<br>57/35                | -570-1                              | -57062   | 57117                  | 1000 <b>/</b>                   |
| -5//43                                      |                          | - 57146                 | 57/31                    | -51/40                            | -51029                       | - 51/43  | -51/42                          | -51094                              | 5.570%   | -51125                 |                                 |
| 57150                                       | 57/58                    | 51142                   | 511:43                   | 57/39                             | 51072                        | 57980  | 57/38                           | 51/24                               | 57055  | 51138                  |                                 |
| 5005 -57143<br>57141                        | -5/147<br>51/31          | - 57/38<br>57/27        | -5/133<br>51/39          | 51/24<br>51/43                    | -57084 -<br>51121-           | 57167  | - 51144<br>5 <b>1</b> 138       | 57/36                               | - 57/7/  | - 57194                | 900#                            |
| -51/45                                      |                          | -57154                  | -57/43                   | - 57141                           | -57/35                       | - 51/129   | - 57/23                         | · 57/12                             | -571017  | - 57042                |                                 |
| 57/32                                       | 51/3 <del>8</del>        | 5774L                   | 5 1135                   | 57139                             | .51/24                       | 571355   | 57136 57102                     | 57068                               | 56995  | 57063                  | · · · · ·                       |
| 205 <b>51/35</b>                            |                          | -57/39                  | -57128                   | -5112L                            | -57/16                       | -51132   | -57018                          | -51084                              | -57022   |                        | Boal                            |
| 5747  | 57/32                    | 571.2 <b>1</b><br>51/39 | 57130<br>- 57148         | 51135<br>-51144                   | 57/138<br>- 57/124           | 57/174   | 57064                           | 57 <b>090</b><br>• 51041            | 57016  | 57030                  |                                 |
| 51/30                                       | 51/19                    | 57/4/5                  | 51132                    | 57133                             | 57105                        | 57068  | 57077                           | 57 <b>094</b>                       | 56997  | 57054                  | 100:05 1 7 1                    |
| 105 -57/29                                  |                          | - 51/06                 | -57/57                   | -57/49                            | -57084                       | - 57054  | -5わた                            | 57042 510                           | 510  |                        | LEGEND<br>57 NU                 |
| 57/35<br>57/42                              | 57/66<br>•57/4/          | 57129<br>- 57134        | 571.123<br>-571.360      | 57104<br>-57117                   | 57069<br>• 57039             | 57011<br>- 57063   | 57070<br>-510 <del>10</del>     | 56982                               | 57690-   | 57097                  | 57 100                          |
| 57148                                       | -57/4/<br>57/58          | - <i>57/34</i><br>57/28 | -57136<br>57122          | -5))//<br>51//1                   | 57/087<br>57/12              | -57063<br>57085  | -51069<br>51069                 | 56975                               | 56900 · 56863  | 5 571.14               | 51500                           |
| cus - <b>57136</b>                          | : ·                      | -51/43                  | -51163                   | - 57138                           | - 57/28                      | - 57094  | -570-3                          | 56012                               | 500 - 50 mg  | 57032 6                | Magnet: Consurs-                |
| 57/38                                       | 57/39                    | 51/96                   | 57%9                     | 51142                             | 5/136                        | 57085  | 57055                           | 56846                               | 5,37   | STPH9                  | 1/ in lonano Testas<br>(Gammas) |
| -51/38<br>51/3/                             | ~57 <i>1</i> 66<br>51/44 | -57114                  | -51/39                   | -51/26                            | - <u>5</u> 1140<br>51129     | -51068   | - 57058<br>51058                | -34.925<br>57/<br>51/1              | 20-514551400   | 57943                  | & Relavant, SLAIM, PUSTS        |
| 57/3/                                       | - 51/44<br>- 51/38       | 51162<br>- 51/11        | 51/53<br>- 51/65         | 511 <b>36</b><br>- 51132          | 51129<br>-51131              | 41 cht.<br>691426-   | 57058                           | 51744                               |  | 11 651374 9            |                                 |
| 51125                                       | 57/34                    | 57/79                   | · 51/64                  | 57/29                             | 51143                        | 511  | 51070                           | 71626                               | 58091  | 57373                  | Vehicle Accesible Triels        |
| - 51/34                                     | -57/76 /                 | -51/82                  | - 57161                  | -51163                            | 51111                        | - 87085  | - 5706                          |                                     | 5000   | -57255                 | Venicie intervie inter          |
| 57/36                                       | 57.185                   | 51/92                   | 51177                    | 31/ <del>81</del>                 | 57183                        | 51040  | 51054                           | 57.574                              | 9  | 5730                   | WILLCAN CREEK.                  |
| 005 <b>57/4/</b><br>57/31                   | -57/49<br>.57/61         | - 51,83<br>57176        | -51184<br>-51161         | -511 <b>-4</b><br>57174           | -57155<br>51155              | 57048  | 51202                           | 57383                               | -57r80<br>5%-59  | 57 - 57273 4<br>57/75  | NULCHIN COMMON                  |
| -<br>-<br>-51/36                            | - 57/44                  | - 511 <del>84</del>     | -57192                   | - 5/17 <b>9</b>                   | · 57124                      | -57/26   | - 57275                         |                                     | Stan.  | -57122 4               | o                               |
| 51/29                                       | 57/38                    | 51/65                   | 511 M                    | 571 <b>81</b>                     | 51.43                        | 51/31  | 57310                           | 57342                               |  | 51/39                  |                                 |
| אווכ  |                          | i                       |                          |                                   |                              | A STATE OF THE STA |                                 |                                     | the state of the s | ~ <b>1</b>             |                                 |
| 57/34<br>57/31                              | -51144                   | 57/62<br>57/58          | -31168<br>51/86          | - 51166<br>51169                  | -57/171<br>57/192<br>57200   | - 57215<br>51226   | -51340<br>57335                 | 57432                               |  | -511/22 3              | mon                             |



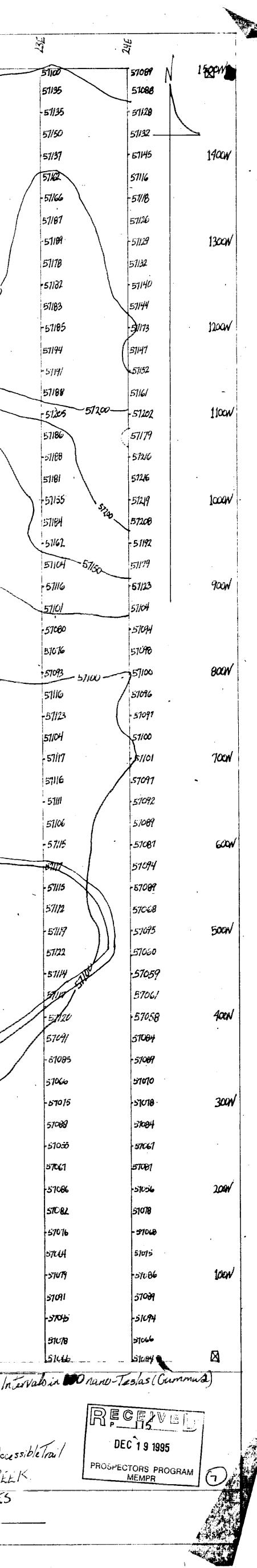


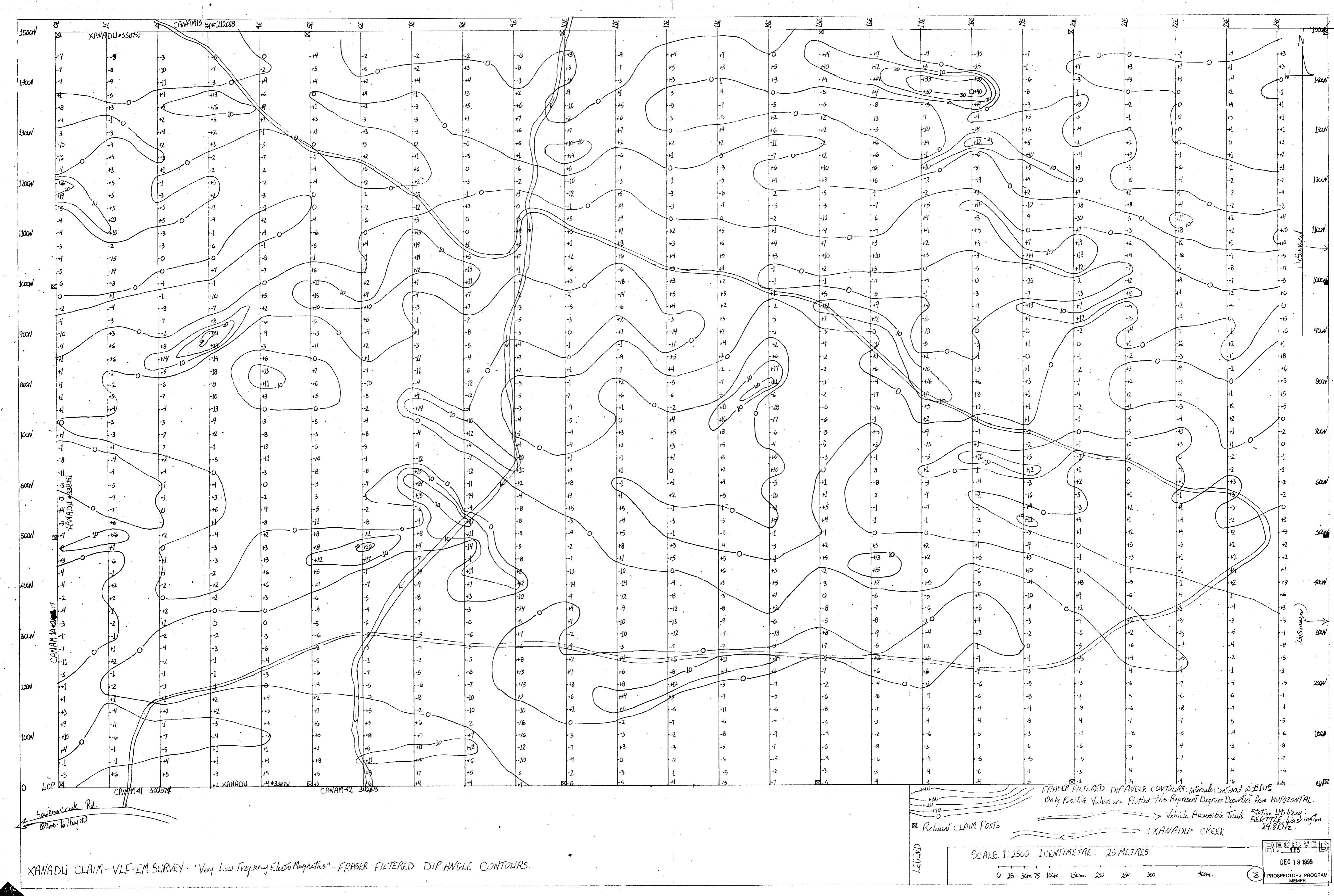






| OF # # # #15 #212018   | X X X   | <b>1</b><br><b>1</b><br><b>1</b><br><b>1</b><br><b>1</b><br><b>1</b><br><b>1</b><br><b>1</b><br><b>1</b><br><b>1</b> | 斑 斑 斑   | X X  |  |
|--|---|--|---|--|--|
| 1500V 57103 57114 57126 57109<br>57135 57152 57123 57109   | 571/35 × 571/38 571/4 511/2<br>57099 51/44 57101  | 57110<br>51047<br>51139 XANADU 57136 #338751   | 57178 | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$  | 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/2 		 51/2 		 51066 		 51066 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/39 		 51/   |
| -57129 -571/9<br>57126 -571/9<br>57090 571/0<br>57090 571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571/0<br>571 | 57093 57/30 57/09 51/12<br>57/3/ 51/10 51/12<br>57/3/   | 5100 37/00 51140 51/33<br>51098 51/10 51/44  | 571/20 571/20 571/20 571<br>571/26 571/27 571/<br>571/26 571/26 571/27  | 105 57/22 57/7/ 57/25 57/25  | 57101 57130 57092 57061 57094<br>57149 - 57076 57062 57095   |
| 1900V - 51/30 - 51/33 - 57/09 - 57/04<br>57/31 51/44 57/15 57/14   | 57/34 57/34 57/10 57/14<br>57/150 57/14 57/14   | 51075 51084<br>51071 51120 51/31   | 57084 57084 57094 570<br>57084 57094 57091 570  | 076<br>57027<br>57027<br>57027<br>57027<br>57278<br>571278<br>571278<br>57115  | 51148 51131 5740 57088 57040<br>51151 57095 57110 57062 5106   |
| 57/30 571/56 571/6 571/8   | 51/30 51/19 51/24<br>51/30 51/19 51/24  | 57068 57123 57125  | 57095 - 57084 - 57084 - 57084 - 570<br>57099 - 57019 - 57017 - 570<br>57012 - 57062 - 570   | 57045<br>57045<br>57041  | 57/38 57074 511/6 57028 571/3<br>51/54 57059 -57103 -57050 571/5   |
| 13001 - 57125 - 57121 - 57120 - 57109<br>57134 (57160 57114 57119 571  | 51124 51124 51124 51124 51124 51124 51124 51124   | -51067 -57104 -57118<br>-57066 57112 -57134  |   | 1073 570GO 57050 57050 57050   | 51149 51086 57082 57125 57125<br>57086 57081 57088 57125   |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$   | 57192 51136 51108 57114<br>51091 51129 51104 51118  | 57063 - 57109<br>57061 - 57105 - 57121<br>- 57068 - 571099 - 57122   |   | 1076 57072 57088 51094 57188 57084   | 57103 $57107$ $57100$ $37708$ $57040$ $57100$ $57137$ $5113957103$ $57103$ $57103$ $57103$ $57103$ $57103$   |
| 12001 571/00 571/61 51<br>571/13 571/47 571/03 -571/35<br>571/47 571/5 571/46  | 51090 57/32 51/01 51/11<br>57090 57/35 57018 51/11<br>57090 57/41 9 51011 51/11   | 57012 57/20 57/21  | 570   | 1073 57065 57063 D - 51110 5110  | 51114 57069 57/32 51/19 57/65<br>51115 57091 51/32 51/19 51/73   |
| -51124 $-51114$ $-51124$ $-5114951115$ $51140$ $57108$ $57138100N$ $-57236$ $-51140$ $-51149$  | 51/03 51/35 51019 51/10<br>51/09 51/26 51019 51019 51/10<br>51/26 51/09 51/26   | 8 57070 5775   | 51080 5:1070 57098 57   | 100 57072 57764 57071 8<br>1095 57061 571/5 57084  | 57109 57078 57142 57117 57202<br>571/3 571/3 571/38 571/61   |
| -51/100 57/50 57/151 57/16 57/16 57/16   | 51/48 57/20 57084 511   | 6 57068 57 JULY  | · · ·   | 1071 57082 571/G 57012<br>1091 57066 57096 57071   | 57107 57088 51160 157120 51720<br>57103 51120 57161 51121  |
| 57/23 57/17 57/17 57/141   | 51/13<br>51/13<br>51/24<br>51/24<br>51/25<br>51/24<br>51/25<br>51/2<br>51/2<br>51/2   | 3 57070 57050  |   | 1079 57069 57094 57095<br>1083 -51069 51101 -51080   | 57110     57163     57/31     51/20       57101     57063     57119     57126     57115  |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$  | 57/38 51/26 57071 57114<br>57/33 51/35 57076 57114  | 6 57017 5702   | 51100 57071 57039 57  | 1088 57080 571/1 57075<br>1088 57072 57076   | 57080 57095 57103 57082 57100 57113<br>57123 57102 571.6 57082 57100 57113   |
| 57125 $57126$ $571/3$ $571/429000 -571/25$ $-571/43$ $571/26$ $-571/40$  | 51143 51121 57078 5716<br>51121 51131 57076 571   |  |   | 1086         57/05         57/05         57/09           1073         57093         57093         57095                            | 57/12     57/13     57/13     57/101     51/04       57/14     57/13     51/04     51/04   |
| 51/28 51/15 51/26 51/34<br>-57/27 -57/31 -57/12 -51/48   | 57/19 51001 51001 51001 51000 57/19 51102 51086 57/1  |  | 57087 57071 57094 57<br>59071 -57076 57114 57   | 103 57077 57094 57075<br>1087 -57075 -57094  | 57/10         57/00         57/005           -51/11         -57/00         -57/005   |
| 57/23 57/44 57/15 57/44<br>300N - 57/20 -57/24 -57/92 -57/41   | 57/135 -571092 57076 5710<br>57135 -57108 57088 5710  |  | 57090 57101 57945 57<br>57086 -57092 -57071 57  | 1091 57011 51109 57074<br>7089 57066 57100 -57068  | 57112         57102         57112         57070         57100         57100           = 57115         - 57102         - 57111         - 57079         - 57079  |
| 57/11 57/29 57/11 57/44<br>57/21 57/28 57/099 -57/51   | 571/5 57089 57089 57089 5711<br>571/7 57089 57089 57095 571   |  |   | 7106 57086 31/06 51075<br>7083 87042 571/0 57011   | 51117<br>51/00 51/03 51/19 51/13 51/13 51/13 51/13   |
| 571/18 571/19 571/2<br>TOON 57/21 511/17 571/04 557/98   | 57/049 57/05 57083 5110<br>57/0 <sup>13</sup> 57//4 51/08/ 571  |  |   | 57078 57113 57074<br>57073 57077 57099 -57072  | 57112 57108 57108 57108 57108 57109<br>57109 57109 57109 57100 57100 57100   |
| 57124 51144 51101 57108<br>57124 51130 51101 57108<br>57108 57108  | 57119 51116 57081 5111<br>57124 51112 57081 5111<br>5712  |  | 57097 - 57086 57  | 1091 57073 51105 51089<br>1086 57080 -51115 -57088   | 57100 571/00 571/2 57100 5709C<br>571/0 571/0 57075 57103  |
| 57120 = 57175 = 57179 = 57107  | 57/35 57/33 57/09 57/2<br>57/42 57/38 51/15 51/1  | 13 -57075 -57129 -57035  | - 57680 - 57090 - <b>9</b> 7000 - 57  | 7076 57074 57/00 97/06<br>7094 57079 9 57/00 57061   | 51118     51109     5108     5108       51115     51076     5108     51011       51115     51076     5109       51115     51076     5109   |
| E 51/10 E 57/48 57097 57108<br>E 51/16 571/48 57097 57108<br>51/46 51098 51111   | 57118 51/16 57/23 57/0<br>-57/34 51/19 57/18 57/  | 51043 51122 57031  | 57084 -57084 -57093 -57   | 1099         57011         1         51100         57081           1099         57081         -57081         -57081         -57081 | 51/20 		57/3 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10 		57/10   |
| 57/21 0 51/47 57/12 57/01<br>500N 557/14 57/23 57/13 57/10   | 57/128 51/31 67/18 57/1<br>- 57/30 57/130 - 57/130 - 57/19  | 16 57029 51120 57024<br>57039 57116 57028 8  | - 57091 - 57099 57015 570 57  | 57079 57108 57081 57108 57108 57108 571081 57114 571081 57114 571081 57114 571081 57114 571081 57113 57110                         | 57115 57123 57114 51096 57101<br>57119 57120 57113 57074 57102   |
| 571/18         571/23         571/23         571/23         571/39         571/03           -51/23         -571/39         -571/39         571/01  | 57139 51131 57122 570<br>57135 51051 57110 571<br>5100 57110 57110  | 57039 57039  | -57092 -57094 -57114 -5   | 57131 57080 51116 51111<br>57128 57084/ 57112 57111  | 57/24 57/29 57/06 57/00 57/01  |
| 400N 57/07 57/18 57/09 57/09 57/09   | 51/10<br>51/10<br>51/03<br>51/04<br>51/00<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10<br>51/10 | 720 57068 -57088 -57044/   | -37072 -31121 -5  | 57/22 57007 571/15 571/08<br>57102 57101 571/15  | 57/20 -57121 -57115 -57102 -57103<br>57122 -57120 -57109 -57103  |
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| 300N 57/20 57/25 57/01 -51/26 51/26  | 57016 57085 5100 57   | 086 51085 -57089 -31096<br>068 51083 57705 51107   |   | 57085 57108 57109 51061<br>57090 <b>5709</b> 5 57103 51094   | 57/34         51/00         57/17         57/093           57/17         57/090         57/090         57/092  |
| 57//3 57/42 57/31 57/02<br>57//20 57/06 57/31 57/02  | 51094 57096 4/5106 510<br>51043 57093 57054 570   |  | 57068 57065 57068 5<br>57065 57077 57062 5  | 37061 571040 51122 51120<br>17073 571065 51109 51111   | 51079 57078 57116 57134 3704<br>511/3 5768 57176 57136 57136 57169   |
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| 1001/ -57/21 57/27 57/23 57/0<br>57/31 57/33 57/23 57/01   | -57/43 -57/47 -57/37 -51/<br>57/36 -57/24 -57/24 -57//  | 45 57/36 57/33 57/25<br>8 51/33 57/38 57/26  | 57109 51091 57066 5<br>51103 59100 57069 51   | 57057 -57085 -57083<br>57063 57076 57085 -57083<br>57087   | 51082 51/27 51/28 51/28 51/28 51/28 51/28 51/28 51/28 51/28  |
| 51/25 57/34 51/49 51/42<br>51/21 57/24 57/24   | -57/140 -511/1 57135 -571<br>51136 57121 57130 5713   | 26 -57/122 -57/145 -51132<br>35 57/12 57/138   | -511/6 -51123 -51012 -5<br>51124 -51121 -5<br>51124 -51088 -5   | 57077 - 57085 - 57092 - 5704<br>57083 37068 57075 57019  | -5746 -51075 -51065 -51070<br>57081 -51066 -51085 -51088 -51071  |
| CANAM #4 #302574   | ADU 5115 #338751 X 51108 5100 5100 5100 510   | <u>4 5118 R 51125</u>  | 15/136 157131 1571044 15  | 57089 X 57075 57074 57081  | 57.40 57.250 15/06/ 15/06/ 15/06/<br>-57.250 Magnetic Cuntours - Inter   |
| HAWKING Creek Rd. 11<br>18 kms to Hwy#3  |   |  |   |  | 57200 57250<br>57200 57150<br>57100 ST100 ST150<br>ST100 ST250   |
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| XANADU_CLAIM MAGNETOMETER SURVEY -,  | MAGNETIC CUNTUURS of Vulles in Nono-To.   | slas (Gammas)  |   | •  | S'ALE: 1:2500 1 ENTIMETRE: 2500 METRES   |
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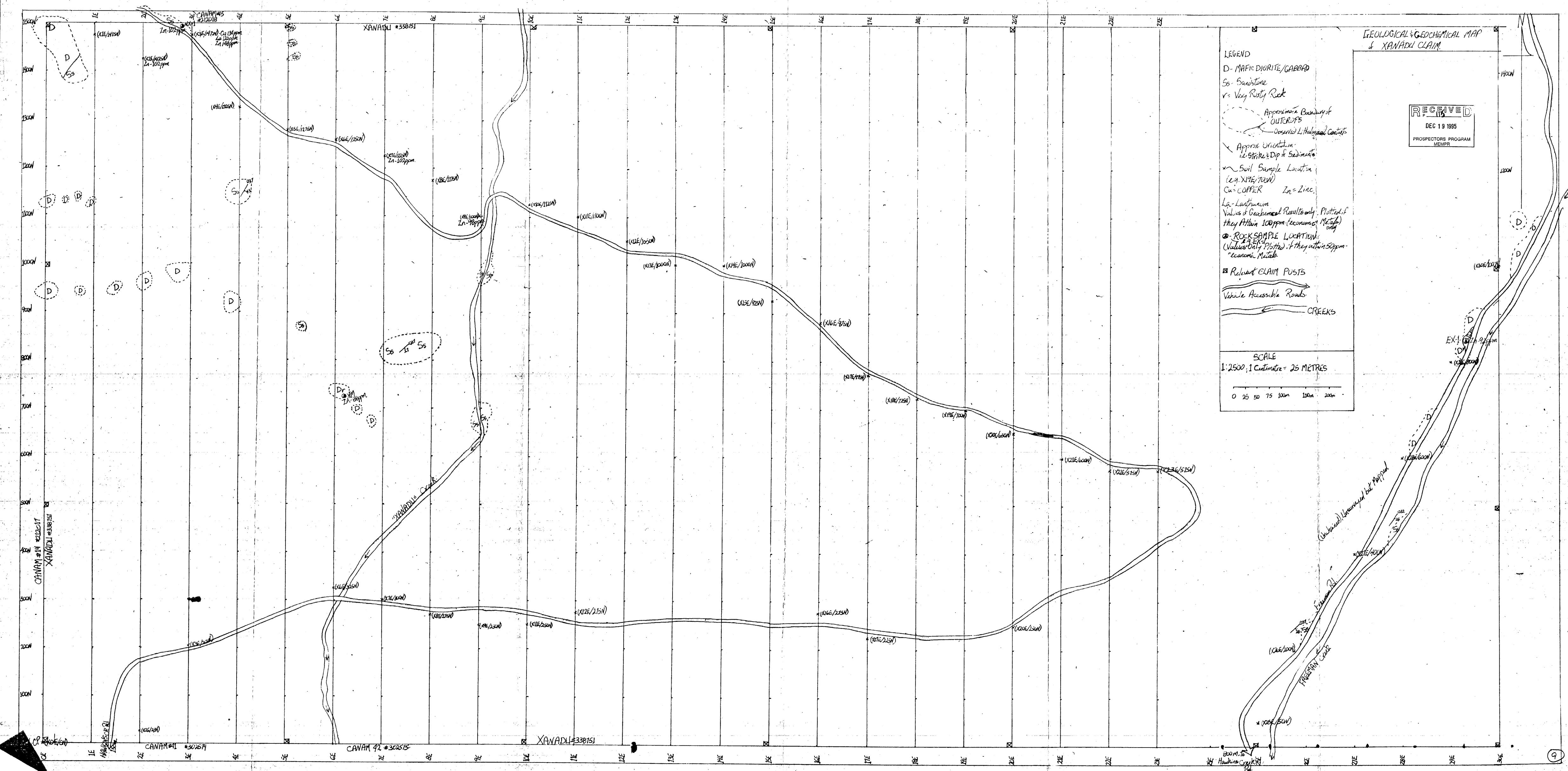


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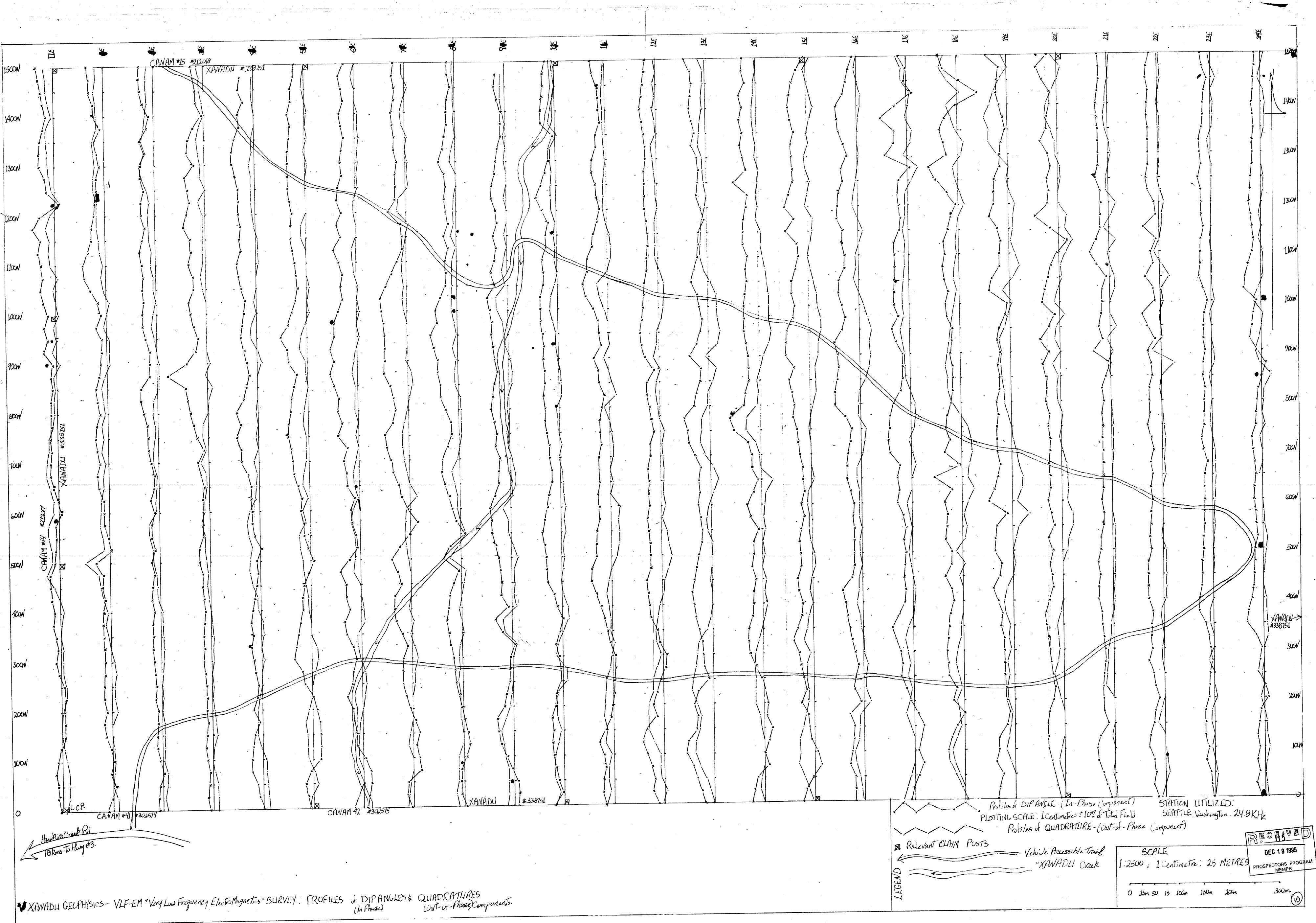
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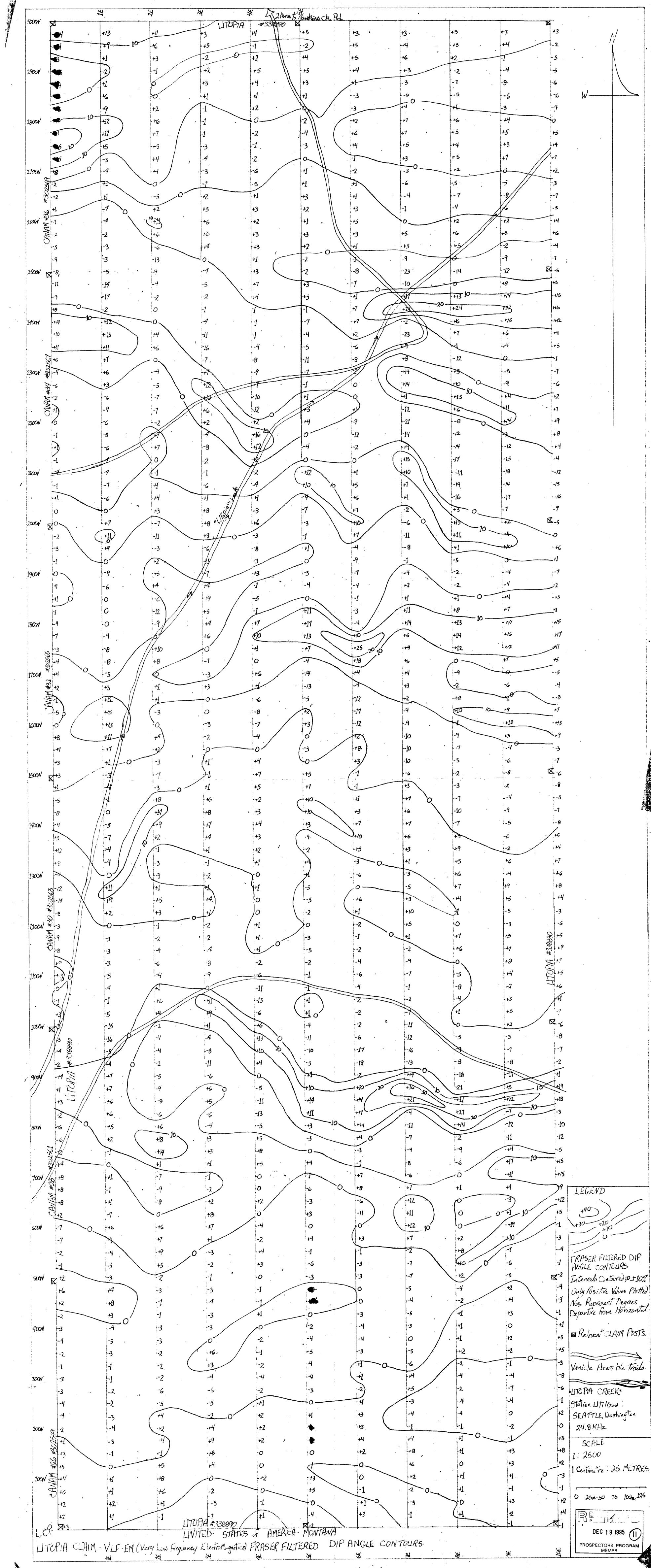
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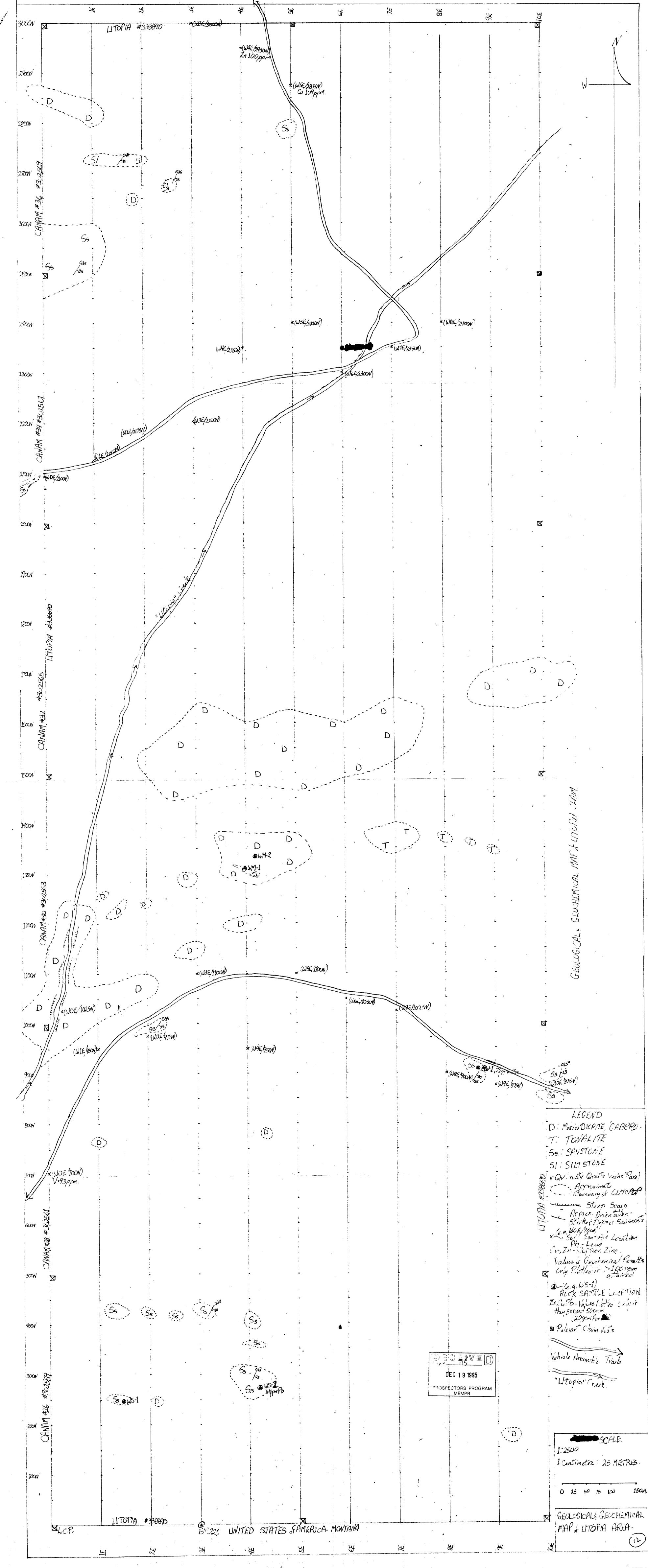


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|   | x (XIGE/975N)  |                                       |                                       |   |             |   |                                       |          |
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| , <b>-</b>                              |  |                                       |                                       |   |             |   |                                       |          |
| •                                       | (XUTE/775N)  |                                       | · · · · · · · · · · · · · · · · · · · |   | <u> </u>    | · · · · · · · · · · · · · · · · · · ·   |                                       | ,        |
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|   |  | (X18E/725N)                           |                                       | 1   |             |   |                                       |          |
| • ,                                     |  |                                       | (X19E/100                             |   |             | •                                       | •                                     |          |
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| - · · · · · · · · · · · · · · · · · · · | ····   |                                       | • • • · · · · · · ·                   |   | ₽           | (X21E/6000)                             |                                       |          |
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|   | <b>n</b> 1997 - 1997 |                                       | •                                     |   |             | · · · · · · · · · · · · · · · · · · ·   |                                       |          |
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| •                                       | (XIGE/275N)  |                                       | •                                     |   |             |   |                                       |          |
|   |  |                                       |                                       |   | (XQUE/250W) |   |                                       |          |
| •                                       | <b>1</b>   | (XSTE/215N)                           |                                       |   |             |   |                                       | -        |
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GEOLOGICAL& GEOCHEMICAL MAP of XANADU CLAIM. LEGEND · -----D-MAFIC DIURITE/GABBRD -1400N 55- Sandstone v = Very Rusty Rick RECEIVED 1 ~ Approximate Boundary of OUTCROPS DEC 191995 - Observed Lithological Contrets PROSPECTORS PROGRAM MEMPR Approx. Urientation-12. Strike & Dip of Sediments \* Soil Sample Location ; 12000 (R.g. X19E/700N) Cu= COPPER In= Zinc. La-Lanthunim Values of Geochemical Results only Plotted it they Attain 100 ppm ( conomic" Metalo) @-ROCKSAMPLE LOCATION: (Values Only Plotted : 1 they attain 50pm-"economic Metals. Relater ELAIM PUSTS Vehicle Accessible Roads. ---- CREEKS SCALE 1:2500.1 Centimetre = 25 METRES ......







|                    | - •                         | CHIMI TITION            | ILTOMETER                        | SLIRVEY - MAG                            |                                   | whine Creek Rd                | Vano - 1.25145                           |                                   |                                  |                                     |                               | N                      |
|--------------------|-----------------------------|-------------------------|----------------------------------|--|-----------------------------------|-------------------------------|--|-----------------------------------|----------------------------------|-------------------------------------|-------------------------------|------------------------|
| 8000,1             | 57/31<br>57/26              | 57/46<br>57/21          | 57/33<br>57/38                   | LITOPIA #338996<br>57123<br>57125        | 57/19<br>57/34                    | 571/26<br>571/37              | 57144<br>57/39                           | 57/39<br>57/26                    | 57/57<br>57/42                   | 57/33<br>57/ <b>46</b>              | 57/27                         |                        |
|                    | 57///<br>57//8              | 57/24<br>57/29          | 57,41<br>31115                   | -57/38<br>57/32                          | 57142<br>57121                    | - 57/36<br>.57/22             | 57,146<br>57/20                          | - <i>57134</i><br>57128           | 57/27<br>57/36                   | 57/3 <b>8</b><br>57/26              | -57/30 W                      |                        |
| 900 <b>1</b>       | -57//8<br>57/0 <del>4</del> | 57/30<br>57/16          | 57/3/<br>.57/35                  | 57/22                                    | -571/33<br>571/44                 | 57/1/9                        | - 57118<br>57104                         | -:57/126<br>57/16                 | 51/29                            | -51/35<br>57/22                     | -51/42<br>57/32               |                        |
|                    | 57/09                       | 57/06                   | 57/32                            | - 51044                                  | - mar                             | 57/14                         | 57/01                                    | 57/3/                             | 57/30                            | -51/33                              | 57126                         | •                      |
| BEEN               | 57129<br>- 57n2             | 51107<br>57111          | 57131<br>57141                   | 57111                                    | 57666                             | 5700                          | 57104                                    | 57//3                             | 51/24<br>51.38                   | 57125<br>-5731                      | 57116<br>- 5712 <b>9</b>      |                        |
|                    | 57//7                       | 57/08                   | 57/31                            | 511/9                                    | 51100                             | 57095                         | 57097                                    | 57/03                             | 57123                            | 51/23                               | 57/38                         |                        |
|                    | 57//3<br>57//3              | 57,07                   | 57132<br>57139                   | 57083                                    | -57118<br>57093                   | 57/15                         | 57/0/                                    | 57110                             | 571081                           | -51/44<br>57/23                     | 57123                         |                        |
| TOON               | 57/1/10                     | - 57///                 | 57135                            | 57088                                    | 57076                             | 5.7079                        | ווד ול                                   | -57/22                            | - 511.26                         | -51/31                              | - 51/26                       |                        |
|                    | 571/1<br>* - 571/4          | 57/06<br>57/10          | 57130<br>57137                   | 57088<br>- 51086                         | 57084                             | 57085                         | 57104                                    | 57/07<br>- 57/29                  | 571.34                           | 57/92                               | 57.34<br>- 51/43              |                        |
|                    | 9 51121<br>M                | 7098                    | 57 <b>121</b>                    | 37086                                    | 1 57073                           | 51/00                         | 57/03                                    | 57122                             | 51/36                            | BT134                               | 57/23                         |                        |
| •                  | 57126<br>NUN<br>57111       | - 57/10<br>57/05        | 57128<br>57119                   | ) 57100<br>51090                         | 57088                             | 57/16                         | 1:7/25<br>1:7/04                         | 57/19                             | 57/124                           | -57110<br>57119                     | -57,35<br>-57,22              |                        |
|                    | 57/19                       | 57///                   | 51135                            | - 57082                                  | 55/1/2                            | 57088                         | . 57085                                  | 570,94                            | - 571/28<br>57076                | -57101                              | - 57/33<br>51//4              |                        |
| 500N               | × 51/11                     | 57109<br>- 57106        | 57122<br>57124                   | 511.8<br>-57113                          | -570.94                           | -57076                        | -57081                                   | 57082                             | 51085                            | - 51081                             | × 57094                       |                        |
|                    | 57123                       | 57/03                   | 57122.<br>- 57124                | 57123                                    | 57082<br>- 57081                  | 57084                         | 57061                                    | 5700                              | 57072<br>- 570 <b>9</b> 0        | 57066<br>- 57088                    | 57090<br>- 570 <del>01</del>  |                        |
|                    | 57079                       | 57094                   | 57/123                           | 510714                                   | 57091                             | 57062                         | 57062                                    | 57056                             | 57089                            | 57095                               | 57/17                         | ·                      |
| 400ni              | -57086<br>57071             | • 57099<br>57097        | 5711 <b>7</b><br>57126           | - 57092<br>57091                         | - 57085<br>57093                  | 57072                         | -57075                                   | 57062                             | 57093 51100                      | -57/19<br>57/12                     | - 57:23<br>57/34              |                        |
|                    | - 51082                     | - 5108ь                 | * 5 <b>71.38</b>                 | - 57086                                  | 57085                             | -570 <b>62</b>                | -57074                                   | 157072                            | 57/02                            | - 57/06                             | - 511/6                       |                        |
| 300W               | 57050                       | 57100                   | 57142<br>57135                   | 57082                                    | 57091<br>57078                    | 57076                         | 51093                                    | 57061                             | 57104<br>- 57101                 | 57121<br>- 57105                    | 57128<br>- 57129              |                        |
|                    | 57/25                       | 57105                   | 57/51                            | 57092                                    | 57094                             |                               | 51084                                    | 57064                             | 57/02                            | 57/14                               | 51/20                         |                        |
|                    | -57121<br>57122             | - 51108<br>57101        | 37134<br>37134                   | 57097                                    | - 57096<br>57083                  | 51115 5                       | - 571 <b>11</b><br>5712 <b>8</b>         | 57/00                             | 57/05                            | -57/0 <b>8</b><br>57/25             | <b>**</b>                     |                        |
| l<br>C             | -57199<br>729               | - 57/35                 | · 5708                           | - 5704i<br>31096                         | 57094                             | - 51/08                       | 57109                                    | 57097                             | 57092                            | -57120                              | 551124<br>511124              |                        |
|                    | 57/04                       | 57138 51                | 51087                            | 31046<br>- 1517094                       | 57097                             | 57103                         | 57071                                    | 57062                             | 57066                            | - 57083                             | 571V9<br>- 571V9              |                        |
|                    | 57114<br>57114              | 57080                   | 57084                            | -51091                                   | 57082                             | 57/02                         | 57078                                    | 57061<br>-57064                   | 57064                            | 57070<br>- 57068                    | 57076                         |                        |
| llan               | UUN 571,23                  | 57080                   | 57089<br>57099                   | -51075<br>57074                          | 57088                             | \$7098                        | 57136                                    | 57983                             | 57083                            | 57085                               | 57 <b>589</b>                 |                        |
|                    | ·51017<br>57112             | -5/113                  | - 57066<br>57998                 | - 57088<br>51098                         | -51019                            | - 57112<br>57019              | 57/52 57/                                | 571091                            | - 570 <del>88</del>              | -57067<br>57094                     | -57070<br>570 <b>9</b> 6      |                        |
| 2ttin/             | × 57076                     | - 5/11                  | 51069                            | - 51059                                  | - 57088                           | -57099                        | - 5716-E                                 | 57103                             | - 570 <b>8</b> 6                 | - 57083                             | ×57011                        |                        |
|                    | 57096<br>- 57090 5          | 57/22<br>1100 - 57/21 - | 57102                            | 57074                                    | 570%<br>57089                     | 57091<br>-57098               | 57/75<br>- 57:61                         | 571/34                            | 51078<br>- 51090                 | 57067<br>- 570 <del>84</del>        | 570 <b>83</b><br>5704         |                        |
| 1/3                | 3 1/24                      | 57110                   | 57071                            | 57001                                    | 57093                             | 57081                         | 57176                                    | 57119                             | 57046                            | 57082                               | 57085                         |                        |
| 9an                | 57100                       | - 57119<br>571(7        | - 57096<br>57065                 | 37058                                    | - 57076<br>57069                  | - <b> </b>                    | - 51/51<br>51/61                         | - 51/66<br>51/70                  | 5/7045                           | -57.061<br>570.74                   | - 51014<br>570 <del>00</del>  |                        |
|                    | -57083                      | 57114                   | 51099                            | 51085                                    | -5 <i>109</i> 4<br>5 <b>7088</b>  | - 57091<br>570 <del>91</del>  | - 57/ <i>5</i> 7<br>57/56                | - 57184<br>57162                  | 57/00                            | - <i>57093</i><br>570 <b>96</b>     | -51094<br>51061               |                        |
| 9001               | 57090<br>- 5799             | -57124                  | \$7105.\\\<br>- 57067            | · 57095                                  | 57088<br>- 157078                 | -570 <del>79</del>            | - 37/5                                   | 57/54                             | -57101                           | 57064                               | 57062                         |                        |
|                    | 571/12                      | 5/122<br>- 87117        | 51014                            | 51572<br>* <b>5708</b> 1                 | 57086<br>- 57091                  | 57073<br>- 57093              | 51155<br>- 571/28                        | 57160<br>- 57179                  | 57/26                            | 57038<br>57481                      | 57059<br>57059                |                        |
|                    | ₩<br>571.24                 | 57105                   | 57090                            | 51059                                    | 57079                             | 57096                         | 57146                                    | 57/73                             | 57180                            | 57063                               | 57054                         |                        |
| 7.con              | # .57/06                    | -57083<br>57082         | -57106                           | - 57091<br>.570 <del>43</del>            | - 59075<br>57073                  | - 5/1081<br>57096             | - 371.50<br>57142                        | - 57168<br>57159                  | - 57/87<br>57/76                 | -310 <i>56</i><br>510 <del>65</del> | 57059 -<br>57063              |                        |
|                    | 0-5%                        | -5708-                  | - 57096                          | ·57093                                   | - 57048                           | -51097                        | * 57/28                                  | - 57/39                           | 57/62                            | - 51075                             | 51068 -                       |                        |
| icern              | 57/13                       | 51082<br>-51089         | 57093<br>57096                   | 57046                                    | 51 <i>091</i><br>- 57091          | 57115<br>p - 571/2            | - 57/ <del>8</del> 9                     | - 57128<br>- 57139                | - 57 <i>15</i> 7                 | 5,7 <b>066</b><br>+ 5,7092          | 57058 -                       |                        |
|                    | - 111                       | 51095                   | 51098                            | 37092                                    | 57089                             | 51/;0                         | 57/ <b>28</b><br>57/28                   | 57/20                             | -57/24<br>-57/37                 | 57/01<br>- 51/21                    | 57048                         |                        |
|                    |                             | - 57079<br>57093        | - 510 <del>9</del> 9<br>57095    | 57078<br>57076                           | - 57091                           | - 57/195<br>51114             | - 57/2 <del>8</del><br>57/34             | - <b>57/36</b><br>57/46           | -57/37<br>57/45                  | - 5 N27<br>57/34                    | 51056                         |                        |
| 15UN               |                             | - 57794                 |                                  | -57072                                   | 57090                             | - 51/04                       | - 57107                                  | -59098                            | 57/42                            | - 57/38<br>57/34                    | × 57051                       | ****                   |
|                    |                             | 51096<br>· 51099        | - 57102                          | 57704                                    | , - 57058                         | 51069                         | 57109                                    | - 57091                           | 571499                           | -57240                              | - 57051                       |                        |
| 1900N              | (******)<br>)               | 51093                   | 57090<br>- 57093                 | 57085                                    | 570 <b>9</b> 7<br>- 57058         | -51560<br>-51560              | 57110                                    | 57088<br>57068                    | 57/57                            | 511/2<br>- 51/04                    | 57021<br>- 57021              |                        |
|                    |                             | 57092                   | 51095                            | 57109                                    | 57044                             | 57                            | strie                                    | 56976                             | 57106                            | 51082                               | 51000                         |                        |
|                    | 0 #30005<br>#336990         | -57046<br>57095         | -57090<br>57081                  | - 97091<br>( 57141                       | - 570 <b>%</b><br>57043           | -5707                         | 57169<br>5758                            | 57061                             | ~51108<br>57/9                   | -57061<br>57074                     | 56A13                         |                        |
| 1300W              | VAN #30                     | -57092                  | 51093                            | -57087 51100                             | - 570 <del>18</del><br>57058      | • 5709 <del>3</del><br>5 1095 | -57245<br>51226 B                        | 57086                             | - 570 <b>88</b><br>570 <u>96</u> | -51033<br>51039                     | - 57056<br>57018              |                        |
|                    | CAMPA<br>TOP                | 57078<br>- 57083        | -57 <b>093</b><br>-57 <b>088</b> | • 51080                                  | 57058<br>- <b>57053</b>           | 57106<br>- 57106              | STRIK B                                  | 57100                             | 57006                            | -57524Cb                            | · 51062                       |                        |
| 1200W              |                             | 57084                   | :5707 <del>9</del><br>57083      | 57093<br>* 57083                         | 57062<br>- 5 <b>7</b> 05 <b>8</b> | 57108<br>- 370446             | 57/25<br>- 57/33                         | 5707/                             | 51271<br>-57/10 5                | 5722                                | - 57/38                       |                        |
| <sub>ri</sub> oxAV |                             | 57.7                    | 57030                            | 57082                                    | 57071                             | 57096                         | 571/3                                    | 57049                             | 57075                            | 57096                               | 57054                         |                        |
|                    |                             | -57785<br>57046         | - 572 <i>3</i> 3<br>57233        | - 57082<br>57075                         | - 57091<br>57073                  | - 97090<br>57108              | -5710 <del>1</del><br>5411 <del>44</del> | - 57096<br>5714B                  | - 57/05<br>57094                 | -51076<br>51004                     | - 51054<br>5 1052             |                        |
| 1100W              |                             | - 57/36                 | - 57094                          | * 57061                                  | 157010                            | -51097                        | - 31101                                  | 57162 5                           | -57082                           | - 5106%                             | -51051                        |                        |
|                    |                             | 57134                   | - 57154                          | 57162                                    | . 57043<br>- 57035                | 57094                         | -5106                                    | 51/29                             | 57099                            | 57087<br>- 57026                    | 570 <del>5</del> 7<br>- 57048 |                        |
| <b>A</b>           |                             | 57118 5710              | STOR                             | 5/982                                    | 57035                             | 5704                          | 57052<br>- 57076                         | 57689                             | 574722                           | 57043                               | 57042                         |                        |
| 1000N              | ×//···                      | - 51094<br>51094 - 51   | - 57065<br>100-57/24             | 57102                                    | - 57082<br>57110                  | - 570 <b>%</b><br>57085       | - 57076<br>570 <b>84</b>                 | -51096<br>51078                   | ~57/36<br>57/76                  | 57134                               | 51048                         |                        |
|                    | 1-2000                      | - 5/1/23                | -57122<br>571/8                  | -57/36                                   | - 57HQ<br>57//6                   | - 51/05                       | -51072<br>100 57992                      | - 570 <del>70</del>               | 571/19                           | - 57140                             | - 57042 1<br>570 <b>50</b>    |                        |
| 9001               |                             | - 57118                 | 51/18<br>~ 51/18                 | -57/59                                   | 57176                             | - 57/40                       | 51100                                    | - 51079                           | - 57/08                          | - 511/2                             | -57072                        |                        |
| •                  | . 1107<br>• 5.)102          | 57110                   | 511/0<br>- 51/01                 | 57154<br>- 57118                         | 57072                             | 51143<br>- \$713L             | 51/94<br>- 57194                         | 57065<br>- 57069                  | 57092 5                          | 57806<br>7100 51092                 | -57052                        |                        |
|                    | 1.7102                      | 57110                   | 57/01                            | 57113                                    | 57081                             | 57/08                         | 51110                                    | 57075                             | 57096                            | 51961                               | 57053                         |                        |
| Boon               | - 1776                      | -57104 .51<br>57096     | 100 - 57088<br>5704!             | 57099                                    | 5705 <b>6</b><br>5707/            | - 57118<br>57113              | 57/07                                    | -57065<br>57066                   | - 570 <del>8</del> 8<br>514932   | -57065<br>57072                     | - 57045<br>57082              |                        |
|                    |                             | - 57097                 | - 570 <del>81</del>              | -57011                                   | -57086                            | -5,2098                       | -51/02                                   | - <b>57070</b>                    | - 57082                          | -57089<br>57066                     | +5 <i>1081</i><br>51074       |                        |
| 7001               | 1-00                        | 57/00 57/01             | 57089<br>- 57084                 | 5 <i>1079</i><br>- 57092                 | 57091<br>- 51093                  | 57/15                         | 57092<br>- 57041                         | 57060<br>* 57056                  | 57074<br>- 57091                 | -57038                              | -51044                        |                        |
|                    |                             | 57/02                   | * 57082<br>- 57076               | 57095                                    | 57054<br>-57055                   | 57/09                         | 57087                                    | 57056<br>- 57063                  | 570 <del>35</del><br>- 51090     | 57042<br>-510/5                     | ● 51041<br>- 57048            |                        |
|                    | #301077<br>77 87            | -57098<br>57099         | - 57076<br>57079                 | • 570 <del>94</del><br>570 <del>93</del> | -57053                            | 5107                          | 57/11.7                                  | - 5706 <b>3</b><br>.570 <b>50</b> | - 57099                          | 57067                               | 57077                         |                        |
| GOON               | 9 - 7050<br>H               | -57097<br>57096         | -970/3<br>51079                  | • 57014<br>5709/                         | - 5 1053<br>57063                 | - 57092                       | 57114                                    | - 57066<br>57053                  | - 57084<br>57081                 | -57070<br>57080                     | °€57087<br>57086              |                        |
| ٤                  | WHN-57051                   | 57096<br>- 57095        | 51074                            | -57078                                   | - 5 1062                          | - 57101                       | -51107                                   | - 57057                           | - 57082                          | -57086                              | 57076- LEC                    | FEVD.                  |
| 500W               | 57046<br>X 57041            | 51040                   | -5 1078<br>- 5 1073              | 57086<br>57086                           | 57054<br>- 57071                  | 57/05<br>-51/02               | -57110<br>-57107                         | 57083                             | 51078                            | 57 <i>01</i> 6<br>- 51092<br>1.100  | 57082                         | ))<br>)                |
| • • •              | 57072                       | 57<78                   | 510 <del>41</del>                | 5706 <del>9</del>                        | 57055                             | 57186                         | 571/4                                    | 57089                             | 57111                            | 54404                               | 51075 5100 50                 | je-                    |
|                    | - 51040<br>57033            | - 57045<br>5 1080       | -51049<br>51070                  | 570 <del>01</del>                        | - 57051<br>57050                  | -57/02                        | - 57/05<br>57//2                         | 57 <i>084</i><br>57 <i>094</i>    | -5110 <del>4</del><br>51101      | -57/18<br>57/27                     | 57094-<br>57090 Na QAESIC     | Contours-              |
| -100N              | - 57231                     | - 57083                 | - 57017                          | 57469                                    | -57038                            | -51091                        | - 57114                                  |                                   | -57/03                           | -51/34<br>57/20                     | rterupic                      | 100 Gumm<br>no -Tes/c5 |
|                    | 57051<br>• 57026            | 57089<br>- 57010        | 57065<br>-57066                  | 57069<br>- 57031                         | 57:53<br>H 51m/0                  | 57086<br>- 57093              | 57110                                    | .57055<br>• 57053                 | - 67096<br>- 67099               | -51/20<br>-51/12                    | 57079 - 2 Rice Vant           | CLAIM F.               |
|                    | 57021                       | 57074                   | 57065                            | 57070                                    | \$ 57045                          | 57094                         | 51/08                                    | 57 <i>05</i> 2<br>- 57 <i>057</i> | 57099 -<br>(-51101               | 57/108<br>~-5114/2                  | 51018                         |                        |
| 30thi              | - 57028<br>57054            | - 57071<br>51014        | - 57061<br>57067                 | 570#3<br>57060                           | 5757                              | -57102<br>57100               | - 57063<br>57083                         | - 57057<br>57052                  | (- <u>51/0/</u><br>57098         | - 51/100 - 51097                    | 57000 Vehicle K               | cu55ib.2 ;             |
|                    | - 57013                     | - 51076                 | -51068                           | • 570 <b>6</b>                           | 2<br>- 57547                      | -57099                        | - 57082                                  | - 57052                           | - 57098<br>57096                 | -57092<br>51086                     | 51088 LITOPIF                 | CRÉEK.                 |
| 2004               | €7. 57042<br>\$€-57058      | 57089<br>- 57081        | 57065<br>57071                   | 57053<br>+ 57064                         | - (10123<br>- (110123             | 57090                         | 57080                                    | 570 <i>56</i><br>- 57048          | 51096<br>-51099                  | 57086<br>-57093                     | 51084 LITOPH.<br>51018        |                        |
| . <b></b> ¶        | 257050                      | 57089                   | 57069                            | 57066                                    | 57t <b>8</b> 5                    | 57//3                         | 51091                                    | 57048                             | 51071                            | 57073                               | 57083 1:2500                  | ,                      |
|                    | 57045                       | - 57091<br>57091        | - 57068<br>5.1083                | 57065                                    | - 51060<br>51061                  | -57065<br>570K                | - 57406<br>57108                         | - 510 <b>41</b><br>51050          | - 57068<br>57068                 | -57364<br>51015                     | 57080<br>1 Continut<br>57981  | te 25ME                |
| 100W               | 57114                       | The study               | 51094                            | 57063                                    | - 57046                           | AND SETTICE                   | - 57161<br>57161                         | - 57054<br>51049                  | - 57866                          | - 57063<br>.57075                   | 570% - ,                      | 15 100                 |
|                    | 57/1/                       | 57109<br>57130          | <i>57075</i><br>- 5 <i>70</i> 88 | 57006<br>- 1570 <b>80</b>                | 570 <b>37</b><br>-573 <b>48</b>   | S 27,65                       | 57108<br>- 51097                         | 51049<br>57052                    | 51063<br>- 51075                 | 57043                               | 57045                         |                        |
|                    | 37/32                       | 57/34                   | 57096                            | 57076<br>57076                           | 1 2 7 7 6 8 8 1 1                 | 890 R 57089                   | 5710                                     | 57048                             | 57075<br>57043                   | 57037<br>57039                      | 57049                         | ``                     |
|                    | CP. \$51130                 | 51139                   | 51046                            | IN ITED STATE                            | 1 2 7 7 6 8 8 1 1                 | CA 457007                     | 131404                                   |                                   |                                  | <del></del>                         | 57542 RE                      | 115                    |
| L.                 | 57126                       |                         | $\mathbf{P}_{\mathbf{L}}$        | JL                                       | HU                                | Left 1                        | L K                                      |                                   |                                  |                                     | -                             | <b>.</b> .             |
| <i>ل</i>           | Sr.                         | 33                      | 757                              | OMETER SURV                              | 4cc                               | BUE                           | <b>.</b><br>,                            |                                   | •                                |                                     | DI                            | EC 19 1995             |